

REPORT NUMBER: SCALED FROM RAB00861

ISSUE DATE: 05/12/15

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: RAIL185NW/BL

LUMINAIRE: EXTRUDED METAL HOUSING WITH HEAT SINK FINS, THREE WHITE CIRCUIT BOARD WITH NINETY SIX LEDS ON EACH BOARD, METAL REFLECTOR WITH SPECULAR FINISH, FLAT TRANSLUCENT LENS WITH FROSTED SIDE IN.

LAMPS: TWO HUNDRED AND EIGHTY EIGHT LIGHT EMITTING DIODES (LEDs),

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

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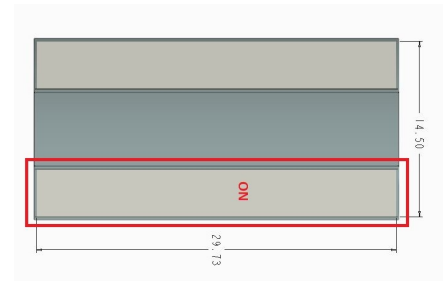
(SEE PAGE 2 FOR MORE INFORMATION)

CANDELA DISTRIBUTION

	0.0	90.0	180.0	270.0
0	4241	4241	4241	4241
5	4202	4281	4196	4180
15	4003	4191	4022	3793
25	3624	3862	3667	3193
35	3107	3297	3152	2511
45	2477	2606	2522	1814
55	1822	1906	1853	1195
65	1180	1297	1203	655
75	593	758	616	202
85	117	300	120	4
90	8	117	11	5
95	7	15	5	5
105	7	4	5	5
115	7	4	5	5
125	7	4	4	5
135	8	4	3	5
145	8	4	3	6
155	9	5	3	6
165	9	6	3	7
175	9	7	3	7
180	6	6	6	6

FLUX

400
1127
1650
1882
1813
1512
1072
576
166
14
5
5
4
4
3
3
2
1

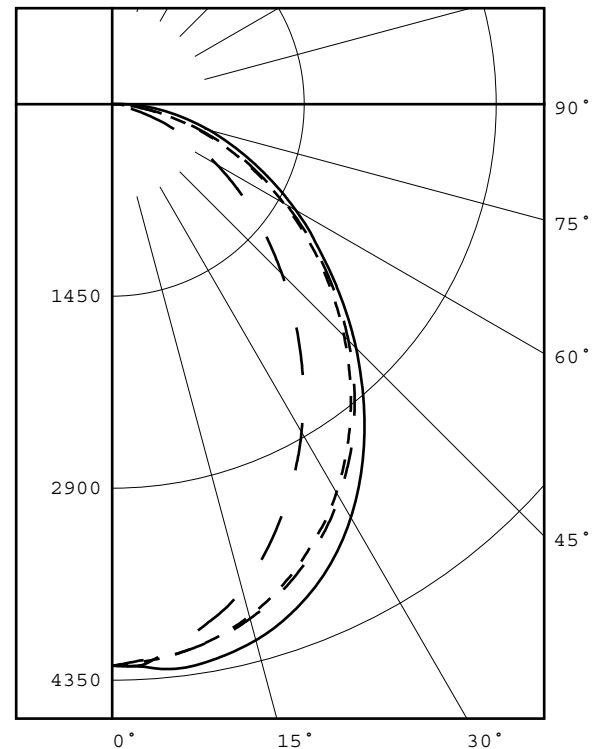


ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	3177	31.0
0- 40	5059	49.4
0- 60	8384	81.9
0- 90	10197	99.6
90-120	24	0.2
90-130	28	0.3
90-150	36	0.3
90-180	40	0.4
0-180	10238	100.0

EFFICACY = 111.3 Lm/W

CIE TYPE - DIRECT



LEGEND:

0-deg: - - - - -
 90-deg: - - - - -
 180-deg: - - - - -
 270-deg: - - - - -

Checked X.CAO
 Approved D.WANG-MUNSON

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ADDITIONAL INFORMATION

TOTAL INPUT WATTS = 92.0 AT 120.0 VAC.

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE: 28.25 FEET

DRIVER: RD-085-A1750

LM-80 DATA AVAILABLE FROM MANUFACTURER FOR SOLID STATE SOURCE

ACCREDITED LABORATORY CODE 201058-0

LED

INDOOR, ARCHITECTURAL, COMMERCIAL DOCK, GYMNASIUM, INDUSTRIAL,
INSTITUTIONAL, MANUFACTURING, POOL, RECREATION, RETAIL, SPORTS,
DIRECT, HIGH BAY, LOW BAY, COLD STORAGE, DAMP LOCATION, WET
LOCATION

CEILING, SURFACE, SUSPENDED

4000

DLC

Luminaire test position and photometric web converted from original
test data

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PLANE : 0-DEG 90-DEG
BEAM ANGLE (50%) : 100.6 X 91.6 DEGREES
FIELD ANGLE (10%) : 156.6 X 151.7 DEGREES

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PLANE	:	0-DEG	90-DEG	180-DEG
SPACING CRITERIA	:	1.2	1.3	1.2

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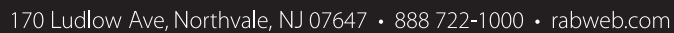
DATE SAMPLE TESTED: 05/07/15

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CANDELA DISTRIBUTION

LATERAL ANGLE

	LATERAL ANGLE													
	0.0	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0	22.5	25.0	27.5	30.0	32.5
0.0	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241
2.5	4221	4220	4219	4217	4217	4216	4215	4213	4212	4211	4213	4215	4217	4219
5.0	4202	4202	4203	4203	4204	4204	4205	4205	4206	4206	4210	4214	4217	4221
7.5	4168	4170	4173	4175	4177	4180	4182	4184	4187	4189	4194	4199	4204	4209
10.0	4125	4129	4133	4137	4141	4145	4149	4153	4157	4161	4167	4172	4179	4185
12.5	4071	4076	4082	4087	4093	4098	4104	4109	4115	4119	4126	4133	4140	4147
15.0	4003	4010	4018	4024	4031	4039	4046	4053	4061	4068	4074	4082	4089	4097
17.5	3925	3934	3943	3951	3960	3969	3977	3985	3994	4003	4011	4019	4025	4033
20.0	3835	3845	3855	3865	3875	3885	3895	3905	3915	3924	3932	3940	3948	3956
22.5	3735	3746	3757	3768	3778	3789	3800	3811	3822	3832	3840	3848	3857	3865
25.0	3624	3635	3647	3659	3671	3683	3695	3707	3719	3730	3738	3746	3755	3763
27.5	3517	3529	3539	3551	3562	3574	3584	3596	3607	3619	3627	3634	3642	3650
30.0	3388	3399	3411	3424	3436	3447	3459	3472	3484	3495	3502	3509	3517	3524
32.5	3250	3263	3276	3288	3300	3313	3326	3338	3350	3363	3370	3376	3383	3388
35.0	3107	3120	3133	3145	3158	3172	3185	3197	3210	3223	3229	3235	3241	3246
37.5	2957	2970	2983	2997	3009	3022	3035	3048	3061	3074	3079	3084	3089	3094
40.0	2802	2814	2828	2841	2854	2867	2881	2894	2907	2920	2924	2928	2933	2937
42.5	2641	2654	2667	2680	2694	2706	2720	2733	2747	2759	2762	2765	2769	2772
45.0	2477	2490	2504	2516	2529	2543	2556	2568	2582	2595	2597	2600	2602	2604
47.5	2314	2326	2339	2352	2364	2376	2389	2402	2414	2427	2431	2434	2438	2441
50.0	2149	2162	2173	2186	2199	2211	2223	2236	2248	2261	2264	2267	2268	2271
52.5	1985	1997	2009	2022	2033	2045	2057	2070	2081	2093	2095	2097	2100	2102
55.0	1822	1833	1845	1856	1868	1879	1891	1902	1914	1926	1927	1929	1931	1933
57.5	1658	1671	1684	1697	1710	1724	1736	1749	1763	1776	1776	1776	1777	1777
60.0	1496	1509	1522	1535	1547	1559	1572	1584	1597	1610	1610	1611	1611	1611
62.5	1338	1350	1363	1375	1388	1400	1413	1425	1438	1450	1451	1451	1452	1452
65.0	1180	1193	1205	1218	1231	1243	1255	1268	1281	1293	1294	1295	1296	1297
67.5	1025	1038	1050	1063	1076	1089	1101	1114	1127	1140	1142	1143	1145	1146
70.0	876	889	902	914	927	941	953	966	979	992	994	996	998	999
72.5	732	745	757	770	783	796	808	821	834	847	850	853	855	858
75.0	593	606	618	630	643	656	668	680	693	706	709	713	717	721
77.5	463	474	486	498	510	521	533	545	557	568	573	578	582	587
80.0	332	344	357	368	381	393	406	417	430	442	447	452	457	462
82.5	216	227	238	250	262	272	284	296	307	318	324	330	337	343
85.0	117	126	136	147	157	167	176	187	197	207	213	219	225	231
87.5	43	51	59	66	73	81	89	96	104	112	118	122	128	133
90.0	8	12	15	19	23	25	29	33	36	40	44	49	53	57
92.5	7	7	7	7	7	8	8	8	8	8	10	12	14	16
95.0	7	7	7	7	7	6	6	6	6	6	6	6	6	6
97.5	7	7	7	7	7	6	6	6	6	6	6	6	6	6
100.0	7	7	7	7	7	6	6	6	6	6	6	6	6	6
102.5	7	7	7	7	7	6	6	6	6	6	6	6	6	6
105.0	7	7	7	7	7	7	7	7	7	7	7	7	7	7
107.5	7	7	7	7	7	6	6	6	6	6	6	6	6	6
110.0	7	7	7	7	7	7	7	7	7	7	7	7	7	7
112.5	7	7	7	7	7	7	7	7	7	7	7	7	7	7
115.0	7	7	7	7	7	7	7	7	7	7	7	7	7	7
117.5	7	7	7	7	7	7	7	7	7	7	7	7	7	7
120.0	7	7	7	7	7	6	6	6	6	6	6	6	6	6
122.5	7	7	7	7	7	7	7	7	7	7	7	7	7	7
125.0	7	7	7	7	7	7	7	7	7	7	7	7	7	7
127.5	7	7	7	7	7	7	7	7	7	7	7	7	7	7
130.0	8	8	8	8	8	7	7	7	7	7	7	7	7	7
132.5	8	8	8	8	8	7	7	7	7	7	7	7	7	7
135.0	8	8	8	8	8	7	7	7	7	7	7	7	7	7
137.5	8	8	8	8	8	7	7	7	7	7	7	7	7	7
140.0	8	8	8	8	8	7	7	7	7	7	7	7	7	7
142.5	8	8	8	8	8	7	7	7	7	7	7	7	7	7
145.0	8	8	8	8	8	8	8	8	8	8	8	8	7	7
147.5	8	8	8	8	8	8	8	8	8	8	8	8	8	8
150.0	8	8	8	8	8	8	8	8	8	8	8	8	8	8
152.5	8	8	8	8	8	8	8	8	8	8	8	8	8	8
155.0	9	9	9	9	9	9	8	8	8	8	8	8	8	8
157.5	9	9	9	9	9	9	8	8	8	8	8	8	8	8
160.0	9	9	9	9	9	8	8	8	8	8	8	8	8	8



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CANDELA DISTRIBUTION

LATERAL ANGLE

[illegible]

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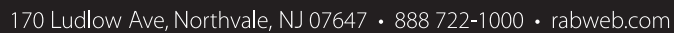
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LATERAL ANGLE

	35.0	37.5	40.0	42.5	45.0	47.5	50.0	52.5	55.0	57.5	60.0	62.5	65.0	67.5
0.0	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241
2.5	4221	4223	4226	4228	4230	4234	4239	4243	4247	4252	4256	4260	4265	4268
5.0	4224	4228	4232	4236	4240	4246	4252	4257	4263	4268	4274	4279	4285	4291
7.5	4215	4219	4224	4229	4234	4241	4248	4254	4261	4267	4274	4280	4287	4294
10.0	4191	4197	4204	4210	4216	4222	4229	4237	4244	4251	4258	4266	4272	4279
12.5	4153	4160	4167	4173	4180	4188	4195	4203	4210	4217	4224	4232	4239	4247
15.0	4104	4112	4119	4126	4133	4140	4147	4155	4162	4168	4175	4183	4190	4197
17.5	4041	4049	4056	4064	4071	4078	4085	4093	4100	4107	4114	4121	4128	4135
20.0	3964	3972	3979	3987	3995	4002	4010	4017	4024	4031	4039	4046	4054	4061
22.5	3873	3880	3889	3897	3905	3912	3919	3926	3933	3940	3947	3955	3962	3969
25.0	3771	3778	3787	3795	3803	3809	3816	3822	3828	3834	3841	3847	3854	3860
27.5	3657	3665	3673	3681	3688	3694	3700	3705	3711	3717	3723	3728	3733	3739
30.0	3531	3537	3545	3552	3559	3564	3569	3574	3579	3583	3588	3593	3598	3603
32.5	3395	3401	3408	3414	3421	3425	3429	3434	3437	3441	3445	3450	3454	3458
35.0	3251	3257	3263	3269	3275	3278	3281	3285	3288	3291	3293	3297	3300	3303
37.5	3099	3104	3109	3114	3119	3121	3123	3125	3127	3129	3131	3133	3135	3137
40.0	2941	2945	2949	2953	2957	2958	2959	2960	2961	2962	2962	2963	2964	2965
42.5	2775	2778	2782	2785	2788	2788	2788	2788	2788	2789	2789	2789	2789	2789
45.0	2607	2608	2610	2613	2615	2614	2614	2613	2612	2612	2611	2610	2610	2609
47.5	2445	2448	2452	2455	2459	2456	2453	2450	2447	2443	2440	2437	2434	2431
50.0	2274	2277	2279	2282	2285	2283	2282	2280	2279	2277	2276	2274	2273	2271
52.5	2104	2106	2109	2111	2113	2111	2109	2108	2106	2104	2102	2101	2099	2097
55.0	1935	1937	1939	1941	1943	1941	1939	1938	1936	1934	1932	1931	1929	1927
57.5	1777	1777	1778	1778	1778	1776	1775	1773	1771	1770	1768	1766	1765	1763
60.0	1612	1612	1612	1613	1613	1612	1611	1609	1608	1607	1606	1604	1603	1602
62.5	1453	1453	1454	1454	1455	1454	1454	1453	1452	1452	1451	1450	1450	1449
65.0	1298	1299	1300	1301	1302	1302	1302	1302	1302	1301	1301	1301	1301	1301
67.5	1147	1148	1150	1151	1153	1154	1154	1155	1155	1156	1156	1157	1157	1158
70.0	1002	1004	1006	1008	1010	1011	1012	1013	1014	1016	1017	1018	1019	1020
72.5	861	864	867	870	873	874	876	877	879	880	882	883	885	886
75.0	724	728	732	736	740	742	744	746	748	751	753	755	756	758
77.5	592	597	601	606	610	613	616	618	621	624	627	629	632	635
80.0	466	471	476	481	486	489	492	496	499	502	505	509	512	514
82.5	349	355	362	367	373	376	380	383	386	390	393	396	400	403
85.0	237	243	250	256	262	266	268	272	276	279	283	287	290	294
87.5	139	144	150	155	161	165	169	172	176	179	183	187	191	195
90.0	62	66	70	74	78	82	85	89	93	96	100	104	107	111
92.5	18	20	22	24	25	28	30	33	35	38	40	43	45	48
95.0	5	5	5	5	5	6	7	7	8	9	10	10	11	12
97.5	5	5	5	5	5	5	5	5	5	4	4	4	4	4
100.0	5	5	5	5	5	5	5	5	5	4	4	4	4	4
102.5	5	5	5	5	5	5	5	5	5	4	4	4	4	4
105.0	6	6	6	6	6	6	6	6	6	5	5	5	5	5
107.5	5	5	5	5	5	5	5	5	5	4	4	4	4	4
110.0	6	6	6	6	6	6	6	6	6	5	5	5	5	5
112.5	6	6	6	6	6	6	6	6	6	5	5	5	5	5
115.0	6	6	6	6	6	6	6	6	6	5	5	5	5	5
117.5	6	6	6	6	6	6	6	6	6	5	5	5	5	5
120.0	6	6	6	6	6	6	6	5	5	5	5	4	4	4
122.5	6	6	6	6	6	6	6	6	6	5	5	5	5	5
125.0	6	6	6	6	6	6	6	5	5	5	5	4	4	4
127.5	6	6	6	6	6	6	6	6	6	5	5	5	5	5
130.0	6	6	6	6	6	6	6	6	6	5	5	5	5	5
132.5	6	6	6	6	6	6	6	6	6	5	5	5	5	5
135.0	6	6	6	6	6	6	6	6	6	5	5	5	5	5
137.5	7	7	7	7	7	7	7	6	6	6	6	5	5	5
140.0	6	6	6	6	6	6	6	6	6	5	5	5	5	5
142.5	6	6	6	6	6	6	6	6	6	5	5	5	5	5
145.0	7	7	6	6	6	6	6	6	6	5	5	5	5	5
147.5	7	7	7	7	7	7	7	7	7	6	6	6	6	6
150.0	7	7	7	7	7	7	7	7	7	6	6	6	6	6
152.5	7	7	7	7	7	7	7	7	7	6	6	6	6	6
155.0	7	7	7	7	7	7	7	7	7	6	6	6	6	6
157.5	8	8	8	8	8	8	8	7	7	7	7	6	6	6
160.0	8	8	8	8	8	8	8	7	7	7	7	6	6	6



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CANDELA DISTRIBUTION

LATERAL ANGLE

[illegible]

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CANDELA DISTRIBUTION

LATERAL ANGLE

	LATERAL ANGLE													
	70.0	72.5	75.0	77.5	80.0	82.5	85.0	87.5	90.0	92.5	95.0	97.5	100.0	102.5
0.0	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241
2.5	4266	4265	4263	4261	4258	4256	4254	4252	4250	4248	4247	4245	4244	4242
5.0	4290	4289	4288	4287	4285	4284	4283	4282	4281	4279	4276	4274	4272	4269
7.5	4294	4293	4293	4293	4292	4292	4292	4291	4291	4288	4286	4283	4281	4278
10.0	4278	4277	4275	4274	4273	4272	4270	4269	4268	4266	4265	4263	4261	4260
12.5	4246	4244	4243	4242	4240	4239	4238	4236	4235	4233	4231	4230	4228	4226
15.0	4196	4196	4195	4194	4194	4193	4192	4192	4191	4190	4188	4187	4186	4184
17.5	4135	4134	4134	4134	4133	4133	4133	4132	4132	4131	4129	4128	4127	4125
20.0	4061	4060	4060	4059	4059	4058	4058	4057	4057	4056	4055	4054	4053	4051
22.5	3969	3969	3969	3969	3968	3968	3968	3968	3968	3967	3966	3965	3964	3963
25.0	3860	3860	3861	3861	3861	3861	3862	3862	3862	3862	3862	3862	3862	3862
27.5	3739	3739	3740	3740	3740	3740	3741	3741	3741	3742	3742	3743	3743	3744
30.0	3603	3604	3604	3604	3605	3605	3605	3606	3606	3607	3607	3608	3608	3609
32.5	3458	3457	3457	3457	3456	3456	3456	3455	3455	3456	3458	3459	3461	3462
35.0	3302	3302	3301	3300	3300	3299	3298	3298	3297	3299	3301	3304	3306	3308
37.5	3136	3135	3135	3134	3133	3132	3132	3131	3130	3133	3136	3139	3142	3144
40.0	2964	2963	2962	2961	2961	2960	2959	2958	2957	2961	2965	2968	2972	2976
42.5	2788	2787	2786	2785	2784	2783	2782	2781	2780	2784	2788	2793	2797	2801
45.0	2609	2608	2608	2608	2608	2607	2607	2606	2606	2609	2613	2617	2621	2624
47.5	2431	2430	2430	2429	2429	2428	2428	2427	2427	2433	2439	2445	2451	2456
50.0	2268	2267	2264	2262	2259	2257	2254	2252	2249	2255	2261	2267	2272	2278
52.5	2095	2092	2090	2087	2085	2082	2080	2077	2075	2079	2083	2087	2091	2096
55.0	1926	1923	1921	1918	1916	1913	1911	1908	1906	1910	1915	1919	1923	1927
57.5	1763	1762	1762	1762	1761	1761	1761	1760	1760	1762	1764	1767	1769	1771
60.0	1602	1602	1601	1601	1601	1601	1600	1600	1600	1604	1607	1611	1614	1618
62.5	1449	1449	1448	1448	1448	1448	1447	1447	1447	1450	1453	1456	1459	1463
65.0	1301	1300	1300	1299	1299	1298	1298	1297	1297	1300	1303	1306	1309	1313
67.5	1157	1157	1156	1155	1155	1154	1153	1153	1152	1155	1158	1161	1164	1168
70.0	1020	1019	1019	1018	1018	1017	1017	1016	1016	1019	1021	1024	1027	1029
72.5	886	886	886	886	886	886	886	886	886	888	890	892	894	897
75.0	758	758	758	758	758	758	758	758	758	759	761	762	764	765
77.5	635	635	635	635	635	635	635	635	635	636	637	638	639	641
80.0	514	515	515	515	516	516	516	517	517	517	518	518	519	519
82.5	404	405	405	406	407	408	408	409	410	410	410	410	410	410
85.0	295	295	296	297	297	298	299	299	300	300	300	300	300	300
87.5	196	196	197	198	198	199	200	200	201	201	201	200	200	200
90.0	112	112	113	114	114	115	116	116	117	117	116	116	115	115
92.5	48	49	49	50	50	51	51	52	52	52	51	51	50	50
95.0	12	13	13	13	14	14	14	15	15	15	14	14	14	13
97.5	4	4	4	4	3	3	3	3	3	3	3	3	3	4
100.0	4	4	4	4	3	3	3	3	3	3	3	3	3	3
102.5	4	4	4	4	3	3	3	3	3	3	3	3	3	3
105.0	5	5	5	5	4	4	4	4	4	4	4	4	4	3
107.5	4	4	4	4	3	3	3	3	3	3	3	3	3	3
110.0	5	5	5	5	4	4	4	4	4	4	4	4	4	3
112.5	5	5	5	5	4	4	4	4	4	4	4	4	4	4
115.0	5	5	5	5	4	4	4	4	4	4	4	4	4	4
117.5	5	5	5	5	4	4	4	4	4	4	4	4	4	4
120.0	4	4	4	4	4	4	4	4	4	4	4	4	4	3
122.5	5	5	5	5	4	4	4	4	4	4	4	4	4	3
125.0	4	4	4	4	4	4	4	4	4	4	4	4	4	3
127.5	5	5	5	5	4	4	4	4	4	4	4	4	4	3
130.0	5	5	5	5	4	4	4	4	4	4	4	4	4	3
132.5	5	5	5	5	4	4	4	4	4	4	4	4	4	3
135.0	5	5	5	5	4	4	4	4	4	4	4	4	4	3
137.5	5	5	5	5	4	4	4	4	4	4	4	4	4	4
140.0	5	5	5	5	4	4	4	4	4	4	4	4	4	4
142.5	5	5	5	5	4	4	4	4	4	4	4	4	4	4
145.0	5	5	5	5	4	4	4	4	4	4	4	4	4	4
147.5	6	6	6	6	5	5	5	5	5	5	5	5	5	4
150.0	6	6	6	6	5	5	5	5	5	5	5	5	5	4
152.5	6	6	6	6	5	5	5	5	5	5	5	5	5	4
155.0	6	6	6	6	5	5	5	5	5	5	5	5	5	4
157.5	6	6	6	6	5	5	5	5	5	5	5	5	5	4
160.0	6	6	6	6	6	6	6	6	6	6	6	5	5	5



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ISSUE DATE: 05/12/15

DATE SAMPLE TESTED: 05/07/15

PREPARED FOR: RAB LIGHTING INC.

CANDELA DISTRIBUTION

LATERAL ANGLE

[illegible]

PAGE: 11 OF 29

DATE SAMPLE TESTED: 05/07/15

PREPARED FOR: RAB LIGHTING INC.

CANDELA DISTRIBUTION

LATERAL ANGLE

	105.0	107.5	110.0	112.5	115.0	117.5	120.0	122.5	125.0	127.5	130.0	132.5	135.0	137.5
0.0	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241
2.5	4241	4239	4238	4236	4233	4230	4227	4224	4220	4217	4215	4212	4209	4209
5.0	4267	4266	4263	4261	4257	4252	4248	4243	4239	4234	4230	4225	4221	4219
7.5	4276	4273	4271	4268	4263	4258	4252	4246	4241	4235	4229	4224	4218	4216
10.0	4258	4256	4254	4252	4247	4242	4236	4231	4226	4221	4216	4211	4206	4202
12.5	4224	4223	4221	4219	4215	4210	4205	4200	4196	4191	4186	4181	4176	4171
15.0	4183	4182	4180	4179	4173	4168	4163	4157	4152	4146	4140	4135	4129	4124
17.5	4124	4123	4121	4120	4115	4110	4104	4098	4093	4087	4081	4076	4071	4066
20.0	4050	4049	4048	4047	4042	4037	4031	4026	4022	4017	4011	4006	4001	3995
22.5	3962	3961	3960	3959	3954	3949	3945	3940	3935	3930	3926	3922	3917	3911
25.0	3862	3862	3862	3862	3858	3853	3849	3845	3840	3836	3832	3827	3824	3818
27.5	3744	3745	3745	3746	3743	3739	3736	3732	3729	3726	3723	3719	3716	3710
30.0	3609	3610	3610	3611	3609	3607	3604	3602	3600	3598	3595	3593	3591	3586
32.5	3464	3465	3467	3468	3466	3465	3463	3462	3460	3459	3457	3456	3454	3449
35.0	3310	3313	3315	3317	3316	3316	3315	3315	3314	3314	3313	3313	3312	3308
37.5	3147	3150	3153	3156	3157	3157	3158	3159	3159	3160	3161	3161	3162	3158
40.0	2980	2983	2987	2991	2993	2995	2996	2998	2999	3001	3002	3004	3006	3003
42.5	2804	2809	2813	2817	2820	2822	2825	2828	2830	2833	2836	2838	2841	2839
45.0	2628	2632	2636	2640	2643	2647	2650	2653	2657	2659	2662	2666	2669	2668
47.5	2462	2467	2473	2479	2481	2483	2485	2487	2490	2492	2494	2496	2498	2497
50.0	2284	2290	2296	2302	2305	2307	2310	2312	2315	2316	2319	2321	2324	2324
52.5	2100	2104	2108	2112	2117	2121	2125	2130	2134	2139	2144	2148	2153	2153
55.0	1931	1935	1940	1944	1948	1952	1957	1961	1965	1969	1974	1977	1981	1981
57.5	1773	1776	1778	1779	1783	1787	1791	1795	1798	1802	1806	1810	1814	1814
60.0	1621	1625	1628	1632	1635	1639	1642	1646	1650	1654	1657	1661	1665	1665
62.5	1466	1469	1472	1475	1478	1482	1485	1488	1491	1495	1498	1502	1505	1504
65.0	1316	1319	1322	1325	1328	1331	1334	1337	1340	1342	1345	1348	1351	1350
67.5	1171	1174	1177	1180	1182	1184	1187	1189	1191	1193	1195	1197	1199	1197
70.0	1032	1035	1037	1040	1041	1042	1044	1045	1046	1047	1048	1049	1050	1048
72.5	899	901	902	904	904	904	905	905	905	905	906	906	906	903
75.0	767	768	770	771	771	770	770	770	769	769	769	768	768	764
77.5	642	643	644	645	644	642	641	640	638	637	636	634	633	629
80.0	520	520	521	521	519	517	515	513	512	510	508	506	504	499
82.5	410	410	410	410	407	405	402	399	397	394	391	389	386	380
85.0	300	300	300	300	297	294	290	287	284	281	277	274	271	266
87.5	200	199	199	199	196	192	189	185	182	178	175	171	169	163
90.0	114	114	113	113	110	107	103	100	97	94	90	87	84	80
92.5	49	49	48	48	46	43	41	39	36	34	32	29	27	25
95.0	13	13	12	12	11	10	9	8	8	7	6	5	4	4
97.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
100.0	3	3	3	3	3	3	3	3	4	4	4	4	4	4
102.5	3	3	3	3	3	3	3	3	4	4	4	4	4	4
105.0	3	3	3	3	3	3	3	3	4	4	4	4	4	4
107.5	3	3	3	3	3	3	3	3	4	4	4	4	4	4
110.0	3	3	3	3	3	3	3	3	4	4	4	4	4	4
112.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
115.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4
117.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
120.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3
122.5	3	3	3	3	3	3	3	3	4	4	4	4	4	4
125.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3
127.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3
130.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3
132.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3
135.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3
137.5	4	4	4	4	4	4	4	4	3	3	3	3	3	3
140.0	4	4	4	4	4	4	4	4	3	3	3	3	3	3
142.5	4	4	4	4	4	4	4	4	3	3	3	3	3	3
145.0	4	4	4	4	4	4	4	4	3	3	3	3	3	3
147.5	4	4	4	4	4	4	4	4	3	3	3	3	3	3
150.0	4	4	4	4	4	4	4	4	3	3	3	3	3	3
152.5	4	4	4	4	4	4	4	4	3	3	3	3	3	3
155.0	4	4	4	4	4	4	4	4	3	3	3	3	3	3
157.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
160.0	5	4	4	4	4	4	4	4	4	4	4	4	4	



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CANDELA DISTRIBUTION

LATERAL ANGLE

[illegible]

PAGE: 13 OF 29

DATE SAMPLE TESTED: 05/07/15

PREPARED FOR: RAB LIGHTING INC.

CANDELA DISTRIBUTION

LATERAL ANGLE

	140.0	142.5	145.0	147.5	150.0	152.5	155.0	157.5	160.0	162.5	165.0	167.5	170.0	172.5
0.0	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241
2.5	4209	4209	4209	4208	4208	4208	4208	4208	4208	4209	4209	4210	4210	4211
5.0	4218	4217	4216	4214	4213	4211	4210	4208	4207	4205	4204	4203	4201	4200
7.5	4214	4211	4209	4206	4204	4201	4199	4196	4193	4190	4187	4184	4180	4177
10.0	4198	4194	4190	4187	4183	4179	4175	4171	4167	4162	4158	4153	4148	4143
12.5	4168	4163	4158	4154	4149	4144	4140	4135	4129	4123	4119	4113	4107	4101
15.0	4119	4115	4110	4106	4101	4096	4091	4086	4079	4072	4065	4058	4051	4044
17.5	4060	4055	4050	4044	4039	4034	4028	4023	4016	4008	4000	3992	3983	3975
20.0	3990	3984	3978	3973	3968	3962	3957	3951	3942	3932	3924	3914	3905	3895
22.5	3906	3900	3894	3889	3883	3877	3873	3867	3856	3845	3835	3825	3814	3803
25.0	3812	3806	3800	3793	3787	3781	3776	3770	3758	3747	3735	3724	3713	370
27.5	3704	3698	3692	3686	3681	3675	3669	3663	3651	3638	3627	3614	3602	3589
30.0	3581	3576	3570	3565	3559	3554	3548	3543	3531	3518	3504	3491	3479	3466
32.5	3444	3440	3436	3431	3426	3422	3417	3412	3398	3386	3372	3358	3345	3332
35.0	3303	3299	3295	3291	3287	3283	3278	3274	3260	3246	3234	3220	3206	3193
37.5	3155	3151	3147	3144	3141	3137	3134	3130	3115	3101	3087	3073	3058	3045
40.0	3000	2998	2995	2992	2989	2986	2983	2980	2965	2950	2936	2921	2906	2892
42.5	2837	2834	2832	2830	2828	2825	2823	2821	2806	2792	2776	2761	2747	2732
45.0	2666	2665	2664	2662	2661	2660	2658	2657	2643	2627	2612	2598	2582	2567
47.5	2496	2495	2494	2492	2491	2490	2489	2488	2473	2459	2444	2429	2414	2400
50.0	2323	2323	2322	2322	2321	2321	2320	2320	2306	2291	2276	2262	2246	2231
52.5	2153	2153	2153	2153	2153	2153	2153	2153	2138	2123	2109	2094	2078	2064
55.0	1982	1982	1982	1983	1983	1983	1984	1984	1970	1955	1940	1926	1912	1897
57.5	1814	1814	1814	1815	1815	1815	1815	1815	1801	1786	1773	1758	1744	1730
60.0	1665	1665	1665	1664	1664	1664	1664	1664	1648	1633	1617	1601	1586	1571
62.5	1504	1503	1503	1502	1502	1501	1501	1500	1485	1470	1454	1438	1424	1408
65.0	1349	1347	1346	1345	1344	1342	1341	1341	1325	1310	1294	1280	1264	1249
67.5	1195	1194	1192	1191	1189	1187	1185	1183	1169	1156	1143	1130	1116	1103
70.0	1046	1044	1042	1039	1037	1035	1032	1030	1016	1003	990	976	963	950
72.5	901	898	895	892	889	886	883	880	866	853	840	826	813	800
75.0	760	757	754	750	746	743	739	735	722	708	696	682	669	656
77.5	624	620	615	611	607	603	598	594	581	568	555	542	529	516
80.0	495	490	486	481	477	472	468	463	451	438	425	413	401	388
82.5	374	369	364	358	352	347	341	335	323	312	300	288	277	266
85.0	260	254	248	242	236	230	224	219	208	197	185	174	164	153
87.5	158	152	147	141	136	130	125	120	112	105	97	89	82	74
90.0	75	72	67	63	58	54	49	45	41	37	33	29	26	23
92.5	24	21	19	17	15	12	10	8	8	8	7	7	7	7
95.0	4	4	4	5	5	5	5	5	5	5	5	5	5	5
97.5	4	4	4	5	5	5	5	5	5	5	5	5	5	5
100.0	4	4	4	5	5	5	5	5	5	5	5	5	5	5
102.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
105.0	4	4	4	4	4	4	4	4	4	4	4	4	5	5
107.5	4	4	4	4	4	4	4	4	4	4	4	4	5	5
110.0	4	4	4	4	4	4	4	4	4	4	4	4	5	5
112.5	4	4	4	4	4	4	4	4	4	4	4	4	5	5
115.0	4	4	4	4	4	4	4	4	4	4	4	4	5	5
117.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
120.0	3	3	3	4	4	4	4	4	4	4	4	4	4	4
122.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
125.0	3	3	3	3	3	3	3	3	3	3	3	3	4	4
127.5	3	3	3	3	3	3	3	3	3	3	3	3	4	4
130.0	3	3	3	3	3	3	3	3	3	3	3	3	4	4
132.5	3	3	3	3	3	3	3	3	3	3	3	3	4	4
135.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3
137.5	3	3	3	3	3	3	3	3	3	3	3	3	4	4
140.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3
142.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3
145.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3
147.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3
150.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3
152.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3
155.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3
157.5	4	4	4	3	3	3	3	3	3	3	3	3	3	3
160.0	4	4	4	3	3	3	3	3	3	3	3	3	3	3



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CANDELA DISTRIBUTION

LATERAL ANGLE

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DATE SAMPLE TESTED: 05/07/15

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CANDELA DISTRIBUTION

LATERAL ANGLE

	175.0	177.5	180.0	182.5	185.0	187.5	190.0	192.5	195.0	197.5	200.0	202.5	205.0	207.5
0.0	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241
2.5	4211	4212	4212	4215	4217	4219	4221	4224	4226	4229	4231	4234	4235	4236
5.0	4199	4197	4196	4197	4197	4198	4199	4199	4200	4201	4201	4202	4201	4200
7.5	4174	4171	4168	4168	4167	4166	4165	4165	4164	4163	4162	4161	4158	4155
10.0	4139	4134	4129	4126	4123	4120	4118	4116	4113	4110	4107	4104	4100	4095
12.5	4096	4090	4084	4078	4073	4068	4062	4057	4051	4045	4040	4034	4027	4022
15.0	4036	4029	4022	4015	4007	3999	3991	3983	3975	3968	3960	3952	3943	3935
17.5	3968	3960	3952	3942	3931	3922	3912	3901	3891	3881	3871	3861	3850	3839
20.0	3886	3876	3868	3856	3844	3831	3820	3808	3796	3783	3772	3760	3747	3733
22.5	3793	3782	3772	3758	3743	3729	3715	3701	3686	3673	3658	3644	3630	3614
25.0	3689	3679	3667	3650	3633	3617	3600	3584	3568	3551	3534	3518	3501	3485
27.5	3578	3565	3553	3534	3516	3497	3479	3460	3441	3423	3404	3386	3367	3348
30.0	3452	3439	3427	3406	3387	3366	3345	3326	3305	3285	3265	3244	3224	3203
32.5	3318	3305	3291	3270	3248	3226	3204	3183	3161	3139	3117	3096	3073	3050
35.0	3180	3166	3152	3129	3106	3083	3059	3037	3013	2990	2967	2944	2920	2897
37.5	3030	3016	3001	2977	2952	2929	2904	2880	2855	2832	2807	2783	2758	2734
40.0	2877	2862	2848	2822	2797	2771	2746	2721	2696	2670	2645	2619	2594	2568
42.5	2716	2702	2687	2660	2634	2608	2582	2556	2529	2504	2477	2451	2425	2400
45.0	2553	2537	2522	2496	2469	2442	2415	2389	2363	2335	2309	2282	2257	2230
47.5	2385	2370	2356	2328	2302	2274	2248	2220	2194	2167	2140	2113	2087	2062
50.0	2217	2202	2187	2161	2133	2107	2080	2053	2026	2000	1973	1946	1921	1895
52.5	2049	2034	2020	1993	1967	1939	1913	1886	1860	1832	1806	1779	1755	1731
55.0	1882	1868	1853	1828	1804	1779	1755	1731	1706	1682	1657	1633	1607	1581
57.5	1716	1701	1687	1664	1639	1616	1592	1568	1544	1521	1496	1473	1448	1423
60.0	1555	1539	1524	1500	1478	1454	1431	1408	1385	1361	1339	1315	1291	1267
62.5	1392	1378	1362	1340	1317	1295	1273	1250	1228	1206	1184	1161	1139	1115
65.0	1234	1219	1203	1182	1160	1140	1118	1097	1075	1054	1033	1011	990	967
67.5	1090	1077	1063	1041	1019	997	974	952	930	907	886	863	843	822
70.0	936	923	909	889	867	847	825	804	783	762	741	720	701	682
72.5	786	773	759	740	720	701	681	660	641	621	602	582	564	548
75.0	643	629	616	599	581	562	545	527	510	491	473	456	439	423
77.5	503	490	477	461	445	428	412	396	379	363	347	330	316	302
80.0	375	363	350	335	320	305	290	275	261	245	230	216	204	192
82.5	254	242	230	218	205	192	179	168	155	142	129	117	109	101
85.0	141	130	120	112	103	95	86	78	70	62	53	45	41	37
87.5	67	60	52	47	42	37	32	28	24	19	14	9	8	8
90.0	19	15	11	10	10	9	8	8	7	6	6	5	5	5
92.5	6	6	6	6	6	6	6	5	5	5	5	5	5	5
95.0	5	5	5	5	5	5	5	5	5	5	5	5	5	5
97.5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
100.0	5	5	5	5	5	5	5	5	5	5	5	5	5	5
102.5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
105.0	5	5	5	5	5	5	5	5	5	5	5	5	5	5
107.5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
110.0	5	5	5	5	5	5	5	5	5	5	5	5	5	5
112.5	5	5	5	5	5	5	5	4	4	4	4	4	4	4
115.0	5	5	5	5	5	5	5	4	4	4	4	4	4	4
117.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
120.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4
122.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
125.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4
127.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
130.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4
132.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
135.0	3	3	3	3	3	3	3	4	4	4	4	4	4	4
137.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
140.0	3	3	3	3	3	3	3	4	4	4	4	4	4	4
142.5	3	3	3	3	3	3	3	4	4	4	4	4	4	4
145.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3
147.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3
150.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3
152.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3
155.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3
157.5	3	3	3	3	3	3	3	4	4	4	4	4	4	4
160.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3



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PREPARED FOR: RAB LIGHTING INC.

CANDELA DISTRIBUTION

LATERAL ANGLE

[illegible]

REPORT NUMBER: SCALED FROM RAB00861

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CANDELA DISTRIBUTION

LATERAL ANGLE

	210.0	212.5	215.0	217.5	220.0	222.5	225.0	227.5	230.0	232.5	235.0	237.5	240.0	242.5
0.0	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241
2.5	4237	4238	4238	4239	4240	4241	4242	4241	4240	4239	4238	4236	4235	4234
5.0	4199	4198	4198	4197	4196	4195	4194	4192	4190	4188	4186	4183	4181	4179
7.5	4151	4148	4145	4142	4138	4135	4132	4128	4125	4121	4119	4115	4112	4108
10.0	4091	4086	4082	4077	4073	4069	4065	4059	4053	4047	4041	4035	4029	4023
12.5	4015	4009	4002	3996	3989	3983	3976	3970	3962	3955	3947	3940	3932	3925
15.0	3926	3918	3910	3901	3892	3884	3876	3867	3858	3849	3840	3831	3823	3814
17.5	3828	3818	3807	3796	3785	3775	3764	3753	3743	3732	3722	3712	3701	3690
20.0	3721	3707	3694	3681	3668	3654	3641	3629	3617	3604	3591	3580	3567	3554
22.5	3599	3583	3569	3553	3538	3523	3508	3493	3480	3465	3451	3437	3423	3408
25.0	3467	3450	3434	3417	3399	3383	3366	3350	3335	3319	3303	3288	3272	3256
27.5	3329	3310	3291	3273	3253	3235	3216	3199	3183	3166	3149	3132	3115	3098
30.0	3183	3162	3141	3120	3099	3079	3058	3041	3022	3004	2987	2968	2950	2933
32.5	3029	3006	2984	2961	2940	2917	2895	2876	2857	2839	2820	2801	2782	2763
35.0	2873	2850	2825	2802	2778	2754	2731	2711	2692	2672	2653	2633	2613	2594
37.5	2709	2685	2659	2635	2610	2586	2561	2542	2521	2502	2482	2462	2442	2422
40.0	2544	2518	2493	2467	2443	2417	2392	2371	2352	2331	2311	2291	2270	2250
42.5	2373	2348	2322	2297	2270	2245	2219	2199	2179	2159	2139	2119	2099	2078
45.0	2205	2179	2153	2127	2102	2075	2050	2030	2010	1990	1970	1950	1929	1910
47.5	2035	2010	1984	1959	1932	1907	1881	1862	1842	1823	1803	1784	1765	1745
50.0	1870	1844	1818	1792	1767	1741	1716	1697	1678	1659	1639	1621	1601	1583
52.5	1705	1681	1656	1632	1606	1582	1557	1538	1520	1501	1483	1464	1445	1427
55.0	1555	1530	1503	1478	1452	1426	1400	1383	1365	1346	1329	1311	1293	1275
57.5	1398	1373	1348	1323	1298	1273	1248	1231	1214	1196	1179	1162	1145	1127
60.0	1243	1219	1194	1171	1146	1123	1098	1082	1065	1049	1033	1016	999	984
62.5	1093	1069	1047	1023	1000	977	954	939	923	907	892	877	861	846
65.0	946	923	902	879	857	835	813	799	785	770	756	742	727	712
67.5	802	781	760	740	719	699	678	664	652	638	624	611	598	584
70.0	662	643	624	605	585	566	547	535	523	512	500	489	477	465
72.5	530	513	496	479	462	445	427	416	405	394	382	371	360	349
75.0	407	390	374	358	341	325	309	300	291	283	274	266	257	249
77.5	287	273	259	245	230	217	202	195	188	180	173	167	160	152
80.0	180	169	158	146	134	122	111	106	101	95	90	85	80	74
82.5	92	84	76	69	60	52	44	41	38	36	33	30	27	25
85.0	33	29	24	21	17	13	9	8	8	7	7	6	6	5
87.5	7	7	6	6	5	5	4	4	4	4	4	4	4	4
90.0	5	5	4	4	4	4	4	4	4	4	4	4	4	4
92.5	5	5	5	5	5	5	5	5	5	5	5	4	4	4
95.0	5	5	4	4	4	4	4	4	4	4	4	4	4	4
97.5	5	5	4	4	4	4	4	4	4	4	4	4	4	4
100.0	5	5	4	4	4	4	4	4	4	4	4	5	5	5
102.5	5	5	4	4	4	4	4	4	4	4	4	4	4	4
105.0	4	4	4	4	3	3	3	3	3	3	3	4	4	4
107.5	4	4	4	4	3	3	3	3	3	3	3	4	4	4
110.0	4	4	4	4	3	3	3	3	3	3	3	4	4	4
112.5	4	4	3	3	3	3	3	3	3	3	3	4	4	4
115.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4
117.5	4	4	3	3	3	3	3	3	3	3	3	4	4	4
120.0	4	4	3	3	3	3	3	3	3	3	3	4	4	4
122.5	4	4	3	3	3	3	3	3	3	3	3	4	4	4
125.0	4	4	3	3	3	3	3	3	3	3	3	4	4	4
127.5	4	4	3	3	3	3	3	3	3	3	3	4	4	4
130.0	4	4	3	3	3	3	3	3	3	3	3	4	4	4
132.5	4	4	4	4	4	4	4	4	4	4	4	5	5	5
135.0	4	4	4	4	4	4	4	4	4	4	4	5	5	5
137.5	4	4	4	4	4	4	4	4	4	4	4	5	5	5
140.0	4	4	4	4	4	4	4	4	4	4	4	5	5	5
142.5	4	4	4	4	4	4	4	4	4	4	4	5	5	5
145.0	3	3	4	4	4	4	4	4	4	4	4	5	5	5
147.5	3	3	4	4	4	4	4	4	4	4	4	5	5	5
150.0	3	3	4	4	4	4	4	4	4	4	4	5	5	5
152.5	3	3	4	4	4	4	4	4	4	4	4	5	5	5
155.0	4	4	4	4	5	5	5	5	5	5	5	5	5	5
157.5	4	4	4	4	4	4	4	4	4	4	4	5	5	5
160.0	3	3	4	4	4	4	4	4	4	5	5	5	5	6



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CANDELA DISTRIBUTION

LATERAL ANGLE

[illegible]

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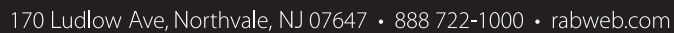
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LATERAL ANGLE

	245.0	247.5	250.0	252.5	255.0	257.5	260.0	262.5	265.0	267.5	270.0	272.5	275.0	277.5
0.0	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241
2.5	4233	4232	4234	4235	4237	4239	4240	4242	4244	4245	4247	4248	4248	4249
5.0	4177	4175	4176	4176	4177	4177	4178	4178	4179	4179	4180	4181	4182	4182
7.5	4105	4101	4100	4100	4099	4098	4098	4097	4096	4096	4095	4097	4098	4100
10.0	4018	4012	4011	4009	4008	4007	4005	4004	4003	4001	4000	4002	4004	4006
12.5	3918	3911	3911	3911	3911	3911	3910	3910	3910	3910	3910	3912	3914	3915
15.0	3805	3796	3796	3795	3795	3795	3794	3794	3794	3793	3793	3795	3798	3800
17.5	3681	3670	3669	3667	3666	3664	3663	3661	3660	3658	3657	3660	3662	3665
20.0	3542	3530	3528	3526	3523	3521	3519	3517	3514	3512	3510	3512	3515	3517
22.5	3394	3380	3377	3374	3371	3368	3365	3362	3359	3356	3353	3357	3361	3364
25.0	3241	3225	3221	3218	3214	3211	3207	3204	3200	3197	3193	3197	3202	3206
27.5	3082	3065	3061	3057	3053	3049	3047	3043	3039	3035	3031	3035	3039	3044
30.0	2914	2897	2893	2889	2885	2881	2876	2872	2868	2864	2860	2864	2869	2873
32.5	2745	2726	2721	2717	2712	2707	2704	2699	2694	2690	2685	2690	2695	2700
35.0	2574	2555	2550	2545	2540	2535	2530	2525	2520	2515	2511	2516	2521	2527
37.5	2402	2382	2376	2370	2364	2359	2354	2348	2342	2336	2330	2336	2343	2349
40.0	2230	2210	2204	2197	2191	2185	2178	2172	2167	2160	2154	2161	2168	2173
42.5	2059	2038	2032	2025	2020	2013	2007	2000	1994	1987	1981	1988	1995	2001
45.0	1889	1870	1864	1857	1851	1845	1838	1832	1827	1820	1814	1821	1828	1833
47.5	1726	1706	1700	1693	1687	1681	1675	1668	1662	1655	1649	1656	1663	1669
50.0	1563	1544	1538	1533	1528	1522	1516	1510	1505	1499	1493	1499	1506	1512
52.5	1408	1389	1385	1379	1374	1369	1363	1358	1353	1347	1342	1348	1354	1360
55.0	1257	1240	1235	1230	1225	1220	1215	1210	1205	1200	1195	1200	1206	1211
57.5	1110	1093	1088	1084	1079	1074	1070	1065	1060	1056	1051	1056	1062	1067
60.0	967	951	947	943	939	935	930	926	922	918	914	919	924	929
62.5	830	814	810	807	804	801	797	794	790	787	783	789	795	801
65.0	699	684	681	677	674	671	667	664	661	658	655	659	665	670
67.5	571	558	555	552	548	545	542	539	535	532	529	534	539	544
70.0	454	442	439	436	433	430	427	424	421	418	415	420	425	429
72.5	337	326	323	321	318	316	314	311	308	306	303	307	312	316
75.0	240	231	228	224	221	219	215	212	209	205	202	206	210	213
77.5	145	138	135	133	130	127	125	122	120	118	115	118	121	123
80.0	70	65	63	61	60	58	56	54	53	51	49	51	53	55
82.5	23	20	19	18	17	16	16	15	14	13	12	13	14	15
85.0	5	4	4	4	4	4	4	4	4	4	4	4	4	4
87.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
90.0	4	4	4	4	4	4	4	5	5	5	5	5	5	5
92.5	4	4	4	4	4	4	4	5	5	5	5	5	5	5
95.0	4	4	4	4	4	4	4	5	5	5	5	5	5	5
97.5	4	4	4	4	4	4	4	5	5	5	5	5	5	5
100.0	5	5	5	5	5	5	5	5	5	5	5	5	5	5
102.5	4	4	4	4	4	4	4	5	5	5	5	5	5	5
105.0	4	4	4	4	4	4	4	5	5	5	5	5	5	5
107.5	4	4	4	4	4	4	4	5	5	5	5	5	5	5
110.0	4	4	4	4	4	4	4	5	5	5	5	5	5	5
112.5	4	4	4	4	4	4	4	5	5	5	5	5	5	5
115.0	4	4	4	4	4	4	4	5	5	5	5	5	5	5
117.5	4	4	4	4	4	4	4	5	5	5	5	5	5	5
120.0	4	4	4	4	4	4	4	5	5	5	5	5	5	5
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127.5	4	4	4	4	4	4	4	5	5	5	5	5	5	5
130.0	4	4	4	4	4	4	4	5	5	5	5	5	5	5
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135.0	5	5	5	5	5	5	5	5	5	5	5	5	5	5
137.5	5	5	5	5	5	5	5	6	6	6	6	6	6	6
140.0	5	5	5	5	5	5	5	6	6	6	6	6	6	6
142.5	5	5	5	5	5	5	5	6	6	6	6	6	6	6
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150.0	5	5	5	5	5	5	5	6	6	6	6	6	6	6
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155.0	5	5	5	5	5	5	5	6	6	6	6	6	6	6
157.5	5	5	5	5	5	5	5	6	6	6	6	6	6	6
160.0	6	6	6	6	6	6	6	6	6	6	6	6	6	6



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CANDELA DISTRIBUTION

LATERAL ANGLE

[illegible]

REPORT NUMBER: SCALED FROM RAB00861
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 PREPARED FOR: RAB LIGHTING INC.

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CANDELA DISTRIBUTION

	LATERAL ANGLE														
	280.0	282.5	285.0	287.5	290.0	292.5	295.0	297.5	300.0	302.5	305.0	307.5	310.0	312.5	
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2.5	4250	4250	4251	4252	4252	4253	4252	4252	4251	4251	4250	4250	4249	4249	
5.0	4183	4184	4185	4185	4186	4187	4188	4189	4190	4191	4193	4194	4195	4196	
7.5	4101	4103	4104	4106	4107	4109	4112	4114	4117	4119	4121	4124	4127	4129	
10.0	4008	4009	4011	4013	4015	4017	4021	4025	4029	4034	4038	4043	4047	4052	
12.5	3917	3919	3921	3922	3924	3925	3929	3934	3938	3943	3947	3952	3956	3961	
15.0	3803	3805	3808	3810	3813	3815	3820	3825	3829	3834	3840	3845	3850	3855	
17.5	3667	3670	3672	3675	3677	3680	3686	3694	3701	3709	3716	3724	3730	3738	
20.0	3520	3522	3525	3527	3530	3532	3541	3550	3560	3570	3579	3588	3598	3607	
22.5	3368	3372	3376	3379	3383	3387	3398	3410	3422	3434	3445	3457	3469	3481	
25.0	3210	3215	3219	3223	3228	3232	3244	3258	3271	3285	3297	3311	3324	3338	
27.5	3047	3051	3055	3060	3064	3068	3083	3097	3112	3127	3142	3156	3171	3186	
30.0	2877	2882	2886	2890	2895	2899	2914	2931	2947	2963	2979	2996	3011	3028	
32.5	2705	2709	2714	2719	2724	2729	2747	2763	2781	2799	2815	2833	2851	2867	
35.0	2532	2538	2543	2549	2554	2559	2578	2596	2614	2633	2651	2669	2688	2706	
37.5	2355	2362	2367	2373	2380	2386	2405	2424	2443	2462	2481	2500	2518	2538	
40.0	2180	2187	2194	2200	2207	2214	2233	2252	2271	2290	2310	2328	2348	2366	
42.5	2008	2015	2022	2027	2034	2041	2060	2079	2098	2118	2136	2156	2174	2194	
45.0	1840	1847	1854	1860	1867	1874	1892	1912	1930	1949	1969	1987	2006	2025	
47.5	1676	1682	1689	1695	1702	1709	1728	1747	1766	1784	1804	1823	1841	1861	
50.0	1518	1525	1531	1536	1543	1549	1568	1586	1605	1624	1643	1662	1681	1699	
52.5	1366	1371	1377	1383	1389	1394	1413	1431	1449	1467	1486	1503	1522	1539	
55.0	1217	1222	1228	1233	1239	1243	1261	1279	1296	1314	1331	1348	1366	1384	
57.5	1072	1078	1083	1088	1094	1098	1115	1132	1149	1166	1183	1199	1217	1234	
60.0	934	938	943	948	952	957	973	989	1005	1021	1037	1052	1069	1085	
62.5	806	811	817	823	829	835	849	862	876	890	903	917	931	945	
65.0	675	681	686	691	697	702	714	727	741	754	766	779	793	805	
67.5	549	555	560	564	569	574	586	599	610	623	635	648	659	672	
70.0	434	439	444	448	453	458	468	479	490	501	511	521	532	543	
72.5	320	324	329	333	338	342	352	363	372	383	393	404	414	424	
75.0	217	220	224	227	231	235	244	253	262	270	280	289	298	307	
77.5	126	129	132	135	138	141	148	156	163	171	177	185	192	200	
80.0	57	60	62	64	66	68	73	77	83	88	93	98	104	109	
82.5	16	17	18	19	20	21	24	26	28	31	34	37	39	42	
85.0	4	5	5	5	5	5	6	6	7	7	8	8	9	9	
87.5	4	5	5	5	5	5	5	5	5	5	6	6	6	6	
90.0	5	5	5	5	5	5	5	5	5	5	6	6	6	6	
92.5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	
95.0	5	5	5	5	5	5	5	5	5	5	6	6	6	6	
97.5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	
100.0	5	6	6	6	6	6	6	6	6	6	7	7	7	7	
102.5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	
105.0	5	6	6	6	6	6	6	6	6	6	7	7	7	7	
107.5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	
110.0	5	6	6	6	6	6	6	6	6	6	7	7	7	7	
112.5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	
115.0	5	6	6	6	6	6	6	6	6	6	7	7	7	7	
117.5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	
120.0	5	6	6	6	6	6	6	6	6	6	7	7	7	7	
122.5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	
125.0	5	6	6	6	6	6	6	6	6	6	7	7	7	7	
127.5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	
130.0	5	6	6	6	6	6	6	6	6	6	7	7	7	7	
132.5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	
135.0	5	6	6	6	6	6	6	6	6	6	7	7	7	7	
137.5	6	7	7	7	7	7	7	7	7	7	8	8	8	8	
140.0	6	7	7	7	7	7	7	7	7	7	7	7	7	7	
142.5	6	7	7	7	7	7	7	7	7	7	8	8	8	8	
145.0	6	7	7	7	7	7	7	7	7	7	7	7	7	7	
147.5	6	7	7	7	7	7	7	7	7	7	8	8	8	8	
150.0	6	7	7	7	7	7	7	7	7	7	8	8	8	8	
152.5	6	7	7	7	7	7	7	7	7	7	8	8	8	8	
155.0	6	7	7	7	7	7	7	7	7	7	8	8	8	8	
157.5	6	7	7	7	7	7	7	7	7	7	8	8	8	8	
160.0	6	7	7	7	7	7	7	7	7	7	8	8	8	8	



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CANDELA DISTRIBUTION

LATERAL ANGLE

[illegible]

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CANDELA DISTRIBUTION

LATERAL ANGLE

	315.0	317.5	320.0	322.5	325.0	327.5	330.0	332.5	335.0	337.5	340.0	342.5	345.0	347.5
0.0	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241	4241
2.5	4248	4247	4247	4246	4246	4245	4245	4244	4244	4243	4241	4238	4236	4233
5.0	4197	4198	4199	4200	4201	4203	4204	4205	4206	4207	4206	4206	4205	4205
7.5	4132	4135	4139	4142	4145	4149	4152	4155	4159	4162	4163	4164	4164	4165
10.0	4056	4061	4066	4071	4075	4079	4084	4089	4094	4099	4102	4105	4108	4111
12.5	3965	3972	3978	3985	3992	3998	4005	4012	4019	4025	4030	4035	4041	4046
15.0	3860	3869	3877	3886	3895	3905	3914	3923	3931	3940	3947	3954	3961	3968
17.5	3745	3756	3767	3778	3789	3800	3811	3823	3833	3844	3853	3862	3872	3880
20.0	3617	3631	3644	3657	3671	3684	3698	3711	3725	3738	3749	3760	3771	3781
22.5	3492	3507	3521	3535	3549	3564	3578	3592	3606	3621	3633	3646	3659	3672
25.0	3350	3366	3382	3398	3414	3430	3445	3462	3478	3493	3508	3523	3536	3555
27.5	3200	3218	3237	3254	3272	3291	3308	3326	3344	3362	3380	3396	3414	3431
30.0	3044	3063	3083	3102	3122	3142	3161	3181	3200	3220	3239	3257	3276	3294
32.5	2885	2905	2926	2948	2968	2989	3009	3031	3051	3072	3092	3111	3132	3151
35.0	2724	2746	2767	2789	2810	2833	2854	2876	2898	2919	2940	2961	2982	3002
37.5	2557	2579	2602	2624	2647	2670	2693	2715	2738	2760	2782	2804	2826	2848
40.0	2386	2410	2433	2456	2479	2503	2526	2549	2572	2596	2618	2642	2664	2687
42.5	2213	2237	2261	2285	2309	2333	2357	2381	2405	2429	2453	2476	2500	2523
45.0	2044	2069	2093	2117	2141	2166	2190	2214	2238	2263	2286	2311	2334	2358
47.5	1879	1904	1928	1952	1976	2001	2025	2049	2073	2098	2121	2146	2169	2194
50.0	1718	1742	1766	1790	1814	1838	1862	1886	1910	1934	1958	1982	2006	2029
52.5	1558	1582	1605	1629	1652	1676	1699	1723	1746	1770	1793	1818	1841	1866
55.0	1401	1424	1447	1470	1493	1516	1539	1562	1585	1608	1632	1655	1680	1703
57.5	1250	1274	1298	1322	1345	1370	1393	1417	1441	1465	1487	1508	1530	1551
60.0	1100	1123	1146	1169	1192	1215	1238	1260	1284	1306	1328	1348	1370	1390
62.5	958	980	1001	1024	1046	1067	1089	1111	1133	1154	1175	1195	1215	1236
65.0	818	839	859	881	902	922	943	964	985	1005	1025	1045	1063	1083
67.5	684	704	723	743	762	782	802	821	841	860	879	897	915	934
70.0	554	572	591	609	627	646	664	682	701	719	737	755	771	789
72.5	434	451	467	484	501	516	533	550	566	583	600	616	633	650
75.0	316	331	347	363	378	395	411	426	442	458	472	488	503	517
77.5	207	220	235	249	263	277	291	305	319	333	348	362	376	391
80.0	114	125	137	149	161	171	183	195	207	219	231	244	257	269
82.5	45	53	62	70	78	86	95	103	112	120	130	141	152	163
85.0	10	14	18	22	25	29	33	37	41	45	53	61	69	76
87.5	6	6	7	7	7	8	8	8	9	9	13	17	21	24
90.0	6	6	6	6	6	6	6	6	6	6	6	6	7	7
92.5	6	6	6	6	6	6	7	7	7	7	7	7	7	7
95.0	6	6	6	6	6	6	7	7	7	7	7	7	7	7
97.5	7	7	7	7	7	7	7	7	7	7	7	7	7	7
100.0	7	7	7	7	7	7	7	7	7	7	7	7	7	7
102.5	7	7	7	7	7	7	7	7	7	7	7	7	7	7
105.0	7	7	7	7	7	7	7	7	7	7	7	7	7	7
107.5	7	7	7	7	7	7	7	7	7	7	7	7	7	7
110.0	7	7	7	7	7	7	7	7	7	7	7	7	7	7
112.5	7	7	7	7	7	7	7	7	7	7	7	7	7	7
115.0	7	7	7	7	7	7	7	7	7	7	7	7	7	7
117.5	7	7	7	7	7	7	7	7	7	7	7	7	7	7
120.0	7	7	7	7	7	7	7	7	7	7	7	7	7	7
122.5	7	7	7	7	7	7	7	7	7	7	7	7	7	7
125.0	7	7	7	7	7	7	7	7	7	7	7	7	7	7
127.5	7	7	7	7	7	7	8	8	8	8	8	8	8	8
130.0	7	7	7	7	7	7	8	8	8	8	8	8	8	8
132.5	7	7	7	7	7	7	8	8	8	8	8	8	8	8
135.0	7	7	7	7	7	7	8	8	8	8	8	8	8	8
137.5	8	8	8	8	8	8	8	8	8	8	8	8	8	8
140.0	7	7	7	7	7	7	8	8	8	8	8	8	8	8
142.5	8	8	8	8	8	8	8	8	8	8	8	8	8	8
145.0	7	7	7	7	7	7	8	8	8	8	8	8	8	8
147.5	8	8	8	8	8	8	8	8	8	8	8	8	8	8
150.0	8	8	8	8	8	8	8	8	8	8	8	8	8	8
152.5	8	8	8	8	8	8	8	8	8	8	8	8	8	8
155.0	8	8	8	8	8	8	9	9	9	9	9	9	9	9
157.5	8	8	8	8	8	8	9	9	9	9	9	9	9	9
160.0	8	8	8	8	8	8	9	9	9	9	9	9	9	9



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CANDELA DISTRIBUTION

LATERAL ANGLE

[illegible]

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CANDELA DISTRIBUTION
 LATERAL ANGLE

	350.0	352.5	355.0	357.5	360.0
0.0	4241	4241	4241	4241	4241
2.5	4231	4228	4226	4223	4221
5.0	4204	4204	4203	4203	4202
7.5	4166	4167	4167	4168	4168
10.0	4114	4117	4119	4122	4125
12.5	4051	4056	4062	4067	4071
15.0	3975	3982	3989	3996	4003
17.5	3889	3898	3908	3917	3925
20.0	3792	3803	3814	3825	3835
22.5	3684	3697	3710	3723	3735
25.0	3566	3581	3594	3609	3624
27.5	3448	3465	3483	3499	3517
30.0	3313	3332	3350	3369	3388
32.5	3171	3191	3211	3231	3250
35.0	3024	3045	3065	3087	3107
37.5	2870	2892	2913	2936	2957
40.0	2710	2733	2755	2779	2802
42.5	2547	2570	2594	2617	2641
45.0	2382	2406	2429	2454	2477
47.5	2218	2242	2266	2290	2314
50.0	2054	2077	2101	2125	2149
52.5	1889	1914	1937	1962	1985
55.0	1727	1750	1775	1798	1822
57.5	1572	1593	1615	1636	1658
60.0	1412	1433	1454	1475	1496
62.5	1256	1277	1296	1317	1338
65.0	1102	1122	1141	1160	1180
67.5	951	970	989	1006	1025
70.0	806	824	841	858	876
72.5	665	682	699	715	732
75.0	533	548	562	578	593
77.5	405	419	434	448	463
80.0	281	294	307	319	332
82.5	172	183	194	205	216
85.0	85	93	101	109	117
87.5	27	31	35	39	43
90.0	7	7	8	8	8
92.5	7	7	7	7	7
95.0	7	7	7	7	7
97.5	7	7	7	7	7
100.0	7	7	7	7	7
102.5	7	7	7	7	7
105.0	7	7	7	7	7
107.5	7	7	7	7	7
110.0	7	7	7	7	7
112.5	7	7	7	7	7
115.0	7	7	7	7	7
117.5	7	7	7	7	7
120.0	7	7	7	7	7
122.5	7	7	7	7	7
125.0	7	7	7	7	7
127.5	7	7	7	7	7
130.0	8	8	8	8	8
132.5	8	8	8	8	8
135.0	8	8	8	8	8
137.5	8	8	8	8	8
140.0	8	8	8	8	8
142.5	8	8	8	8	8
145.0	8	8	8	8	8
147.5	8	8	8	8	8
150.0	8	8	8	8	8
152.5	8	8	8	8	8
155.0	9	9	9	9	9
157.5	9	9	9	9	9
160.0	9	9	9	9	9

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CANDELA DISTRIBUTION

LATERAL ANGLE

	350.0	352.5	355.0	357.5	360.0
162.5	9	9	9	9	9
165.0	9	9	9	9	9
167.5	9	9	9	9	9
170.0	9	9	9	9	9
172.5	9	9	9	9	9
175.0	9	9	9	9	9
177.5	9	9	9	9	9
180.0	6	6	6	6	6

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5-DEGREE ZONAL LUMEN SUMMARY

0- 5	101
5- 10	299
10- 15	483
15- 20	644
20- 25	776
25- 30	873
30- 35	931
35- 40	950
40- 45	932
45- 50	881
50- 55	804
55- 60	708
60- 65	597
65- 70	475
70- 75	349
75- 80	226
80- 85	120
85- 90	46
90- 95	11
95-100	3
100-105	3
105-110	3
110-115	3
115-120	2
120-125	2
125-130	2
130-135	2
135-140	2
140-145	2
145-150	2
150-155	1
155-160	1
160-165	1
165-170	1
170-175	0
175-180	0

10-DEGREE ZONAL LUMEN SUMMARY

0- 10	400
0- 20	1527
0- 30	3177
0- 40	5059
0- 50	6872
0- 60	8384
0- 70	9456
0- 80	10031
0- 90	10197
0-100	10211
0-110	10216
0-120	10221
0-130	10226
0-140	10230
0-150	10233
0-160	10235
0-170	10237
0-180	10238

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	74	67	89	80	72	67	77	71	65	74	69	64	71	67	63	61
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	52	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	33	28	27

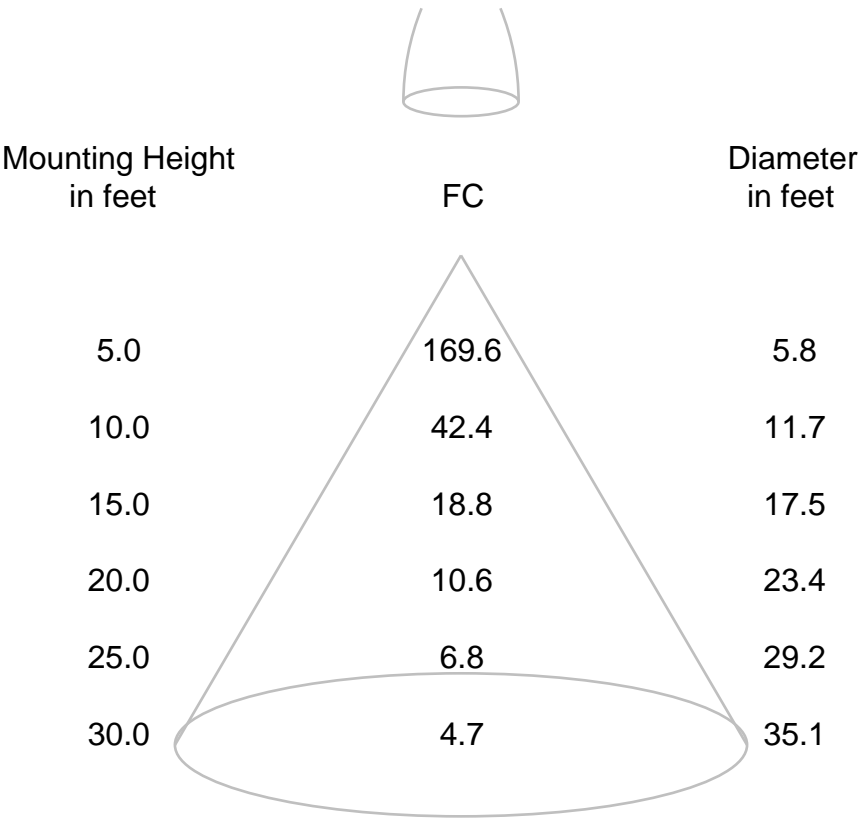
ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE
BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES
ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

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CONE OF LIGHT DIAGRAM

(diameter shown is where fc value is half the fc at nadir)



Note: The candela values used to generate this diagram were obtained by averaging the photometric data into a single plane.