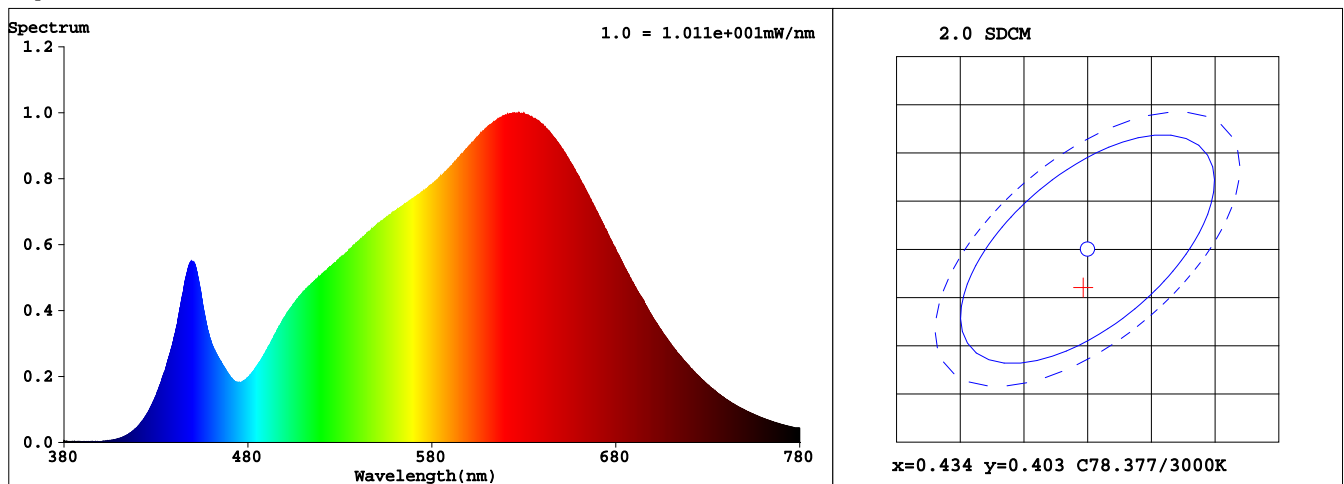


Sample	:	Date	: 2017-05-28 13:23:45
Specification	:	Standardtus	:
Sample No.	: PAR16-8-930-35D-DIM	Instrument	: HaasSuite(EVERFINE)
Manufacturer	: RAB Lighting Inc	Test by	:
Assessor	: cuiquan		
Remark	:		

Test Condition

Temperature	: 25.6Deg	RH	: 30.1%
WL Range	: 380nm-780nm	IP	: 49220 (75%)
Test Mode	: Fast Test	T	: 252 ms
Sensitivity	: High		

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4335$ $y = 0.3992$ / $u' = 0.2505$ $v' = 0.5189$ ($duv = -1.48e-03$)

CCT= 3018K Prcp WL: Ld=583.3nm Purity=49.9%

Peak WL: Lp=627nm FWHM: =169.4nm Ratio:R=25.8% G=71.8% B=2.4%

Render Index: Ra = 93.2 TM30:Rf=90 Rg=102

R1 =94 R2 =95 R3 =95 R4 =94 R5 =93 R6 =94 R7 =94

R8 =87 R9 =69 R10=88 R11=94 R12=84 R13=94 R14=96 R15=92

LEVEL:OUT WHITE:ANSI_3000K

Photometric & Radiometric Parameters

Flux = 506.18 lm Eff. : 67.94 lm/W Fe = 1.8180 W

Flux of emitted photons($\mu\text{mol/s}$):9.0304 Fluo. and blue light ratio:10.31 Fluorescent eff.:208.8

A: 1.8180e+003mW

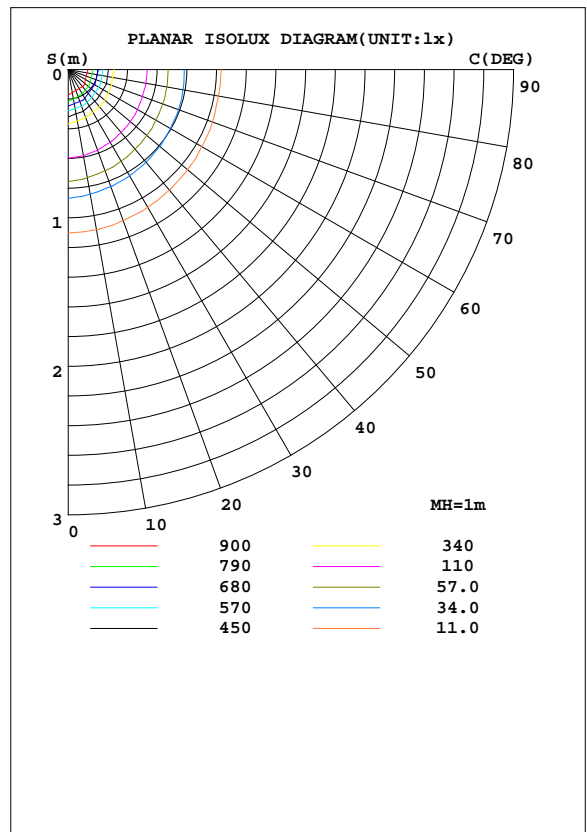
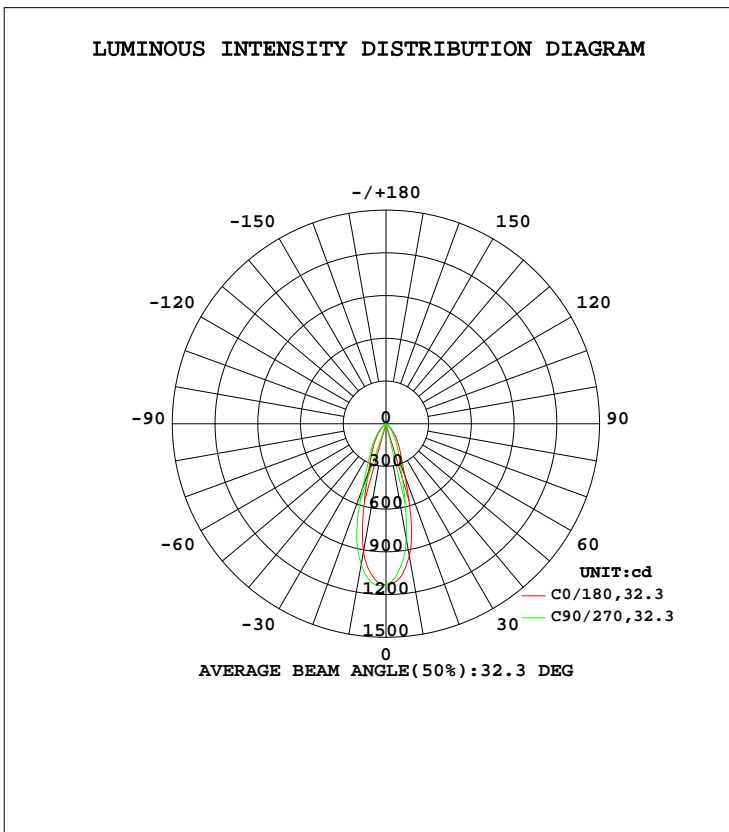
Electrical parameters

V = 120.07 V I = 0.06610 A P = 7.450 W PF = 0.9387

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.04V I:0.0661A P:7.4500W PF:0.9389 Freq:50.00Hz Lamp Flux:523.188x1 lm		
NAME: PAR16-8-930-35D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 70.23 lm/W			
MODEL		I _{max} (cd)	1138	S/MH(C0/180)	0.52
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.59
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	523.19	η UP, DN(C0-180)	0.0,44.3
NOMINAL FLUX(lm)	523.188	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,55.7
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	0.55



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2017-05-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.292
 Humidity:65.0%
 Test Distance:1.148m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

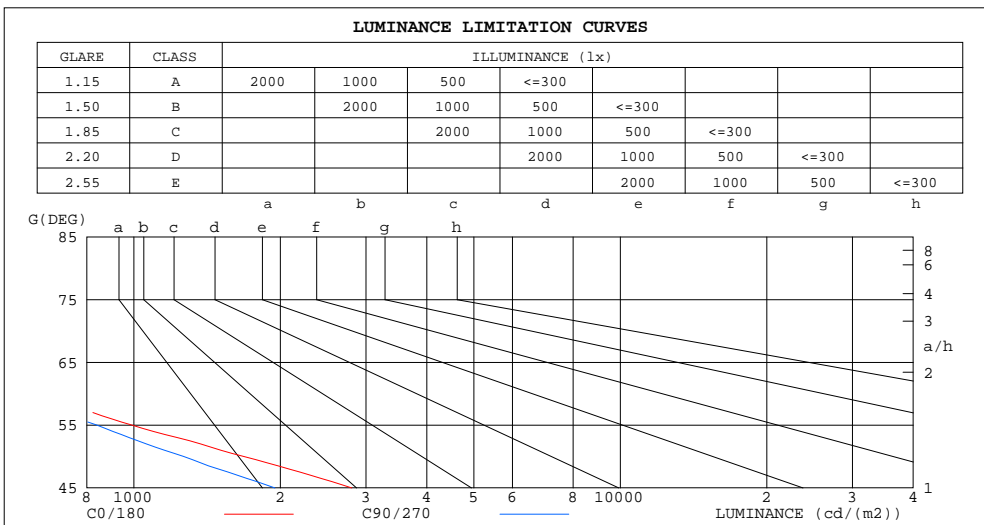
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum, lamp
10	943.0	869.8	818.7	844.8	911.0	973.9	1003	985.4	0- 10	98.05	98.05	18.7,18.7
20	387.9	313.1	291.6	311.4	364.6	429.7	491.2	465.9	10- 20	173.5	271.5	51.9,51.9
30	181.9	150.0	134.5	145.1	171.5	193.6	205.9	202.1	20- 30	115.7	387.2	74,74
40	84.05	65.59	57.13	62.09	75.51	88.57	99.26	99.22	30- 40	75.86	463.0	88.5,88.5
50	27.29	22.60	20.54	20.24	23.95	28.60	32.74	32.14	40- 50	37.50	500.5	95.7,95.7
60	8.448	7.875	7.646	7.127	7.450	8.196	8.713	8.543	50- 60	13.10	513.6	98.2,98.2
70	4.430	4.082	3.866	3.608	3.929	4.224	4.398	4.371	60- 70	5.692	519.3	99.3,99.3
80	1.877	1.458	1.193	1.134	1.413	1.833	2.102	2.086	70- 80	3.007	522.3	99.8,99.8
90	0.0912	0.0007	0.0005	0.0009	0.0003	0.0812	0.2318	0.2292	80- 90	0.7671	523.1	100,100
100	0	0	0.0002	0.0002	0.0002	0.0002	0	0	90-100	0.0103	523.1	100,100
110	0	0.0002	0.0007	0.0002	0.0003	0.0002	0.0002	0.0001	100-110	0.0001	523.1	100,100
120	0.0010	0.0010	0.0010	0.0009	0.0006	0.0006	0.0004	0.0004	110-120	0.0005	523.1	100,100
130	0.0016	0.0021	0.0025	0.0024	0.0027	0.0019	0.0018	0.0018	120-130	0.0011	523.1	100,100
140	0.0115	0.0136	0.0150	0.0148	0.0131	0.0105	0.0092	0.0098	130-140	0.0046	523.1	100,100
150	0.0350	0.0398	0.0430	0.0417	0.0319	0.0271	0.0244	0.0257	140-150	0.0134	523.1	100,100
160	0.0810	0.0942	0.1019	0.0987	0.0838	0.0745	0.0661	0.0676	150-160	0.0249	523.1	100,100
170	0.1037	0.1078	0.1086	0.1087	0.1147	0.1132	0.1072	0.1074	160-170	0.0298	523.2	100,100
180	0	0	0	0	0	0	0	0	170-180	0.0080	523.2	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2017-05-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.292
 Humidity:65.0%
 Test Distance:1.148m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.04V I:0.0661A P:7.4500W PF:0.9389 Freq:50.00Hz Lamp Flux:523.188x1 lm		
NAME: PAR16-8-930-35D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	365	110
80	428	272
75	478	374
70	513	448
65	557	511
60	669	605
55	990	839
50	1681	1265
45	2804	1950

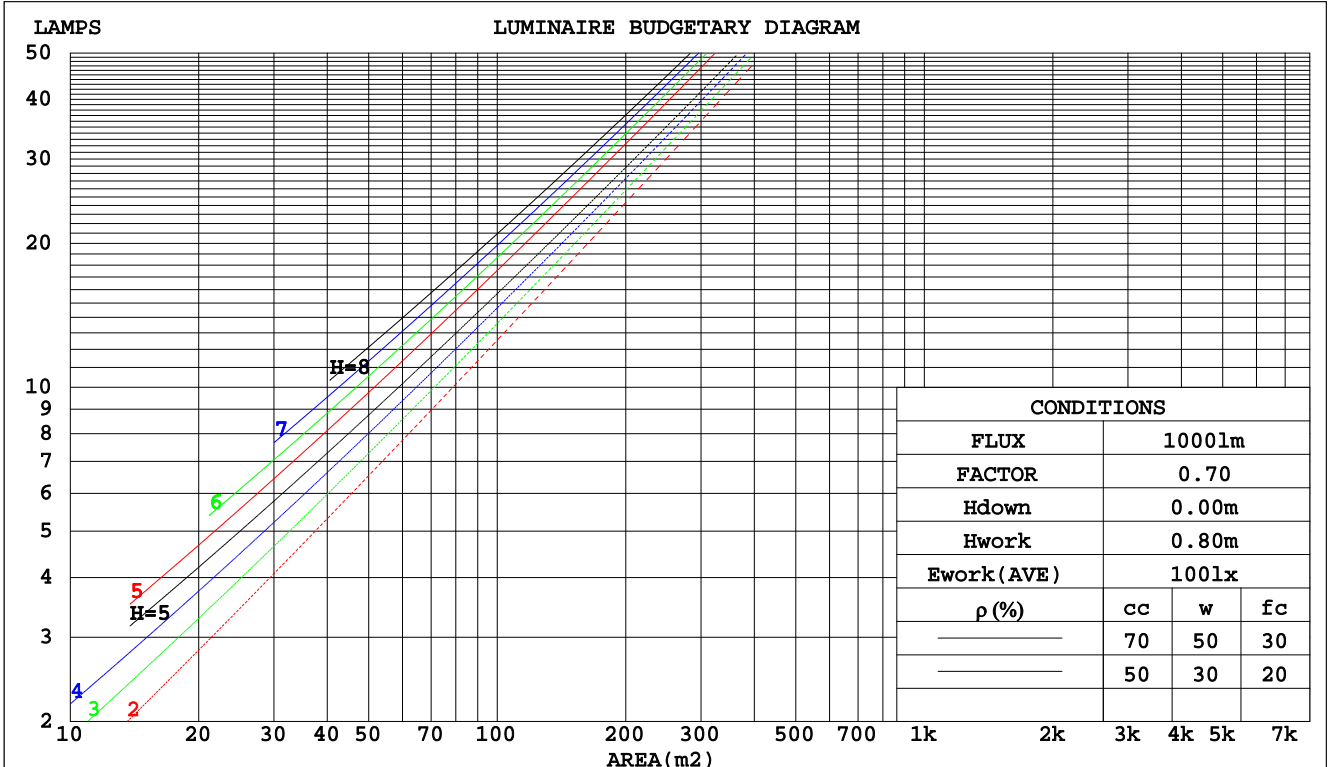
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2017-05-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.292
 Humidity: 65.0%
 Test Distance: 1.148m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.04V I:0.0661A P:7.4500W PF:0.9389 Freq:50.00Hz Lamp Flux:523.188x1 lm		
NAME: PAR16-8-930-35D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.11	1.08	1.06	1.09	1.07	1.05	1.05	1.03	1.01	1.01	.00	.98	.98	.97	.96	.94
2.0	1.04	.00	.96	1.02	.98	.95	.99	.96	.93	.96	.93	.91	.93	.91	.89	.88
3.0	.97	.92	.88	.96	.91	.88	.93	.89	.86	.91	.88	.85	.88	.86	.84	.82
4.0	.91	.86	.82	.90	.85	.81	.88	.84	.80	.86	.82	.79	.84	.81	.79	.77
5.0	.86	.80	.76	.85	.80	.76	.83	.79	.75	.82	.78	.75	.80	.77	.74	.73
6.0	.81	.76	.72	.81	.75	.71	.79	.74	.71	.78	.74	.70	.76	.73	.70	.69
7.0	.77	.72	.68	.77	.71	.67	.75	.71	.67	.74	.70	.67	.73	.69	.66	.65
8.0	.73	.68	.64	.73	.68	.64	.72	.67	.64	.71	.66	.63	.70	.66	.63	.62
9.0	.70	.65	.61	.70	.64	.61	.69	.64	.61	.68	.63	.60	.67	.63	.60	.59
10.0	.67	.62	.58	.66	.61	.58	.66	.61	.58	.65	.61	.58	.64	.60	.57	.56



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2017-05-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.292
 Humidity: 65.0%
 Test Distance: 1.148m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.04V I:0.0661A P:7.4500W PF:0.9389 Freq:50.00Hz Lamp Flux:523.188x1 lm		
NAME: PAR16-8-930-35D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.175	.099	.031	.168	.096	.030	.156	.089	.028	.144	.083	.027	.133	.077	.025	
2.0	.166	.091	.028	.160	.088	.027	.150	.083	.026	.140	.079	.025	.131	.074	.023	
3.0	.157	.084	.025	.152	.082	.025	.143	.078	.024	.135	.074	.023	.127	.070	.022	
4.0	.149	.077	.023	.144	.076	.022	.137	.072	.022	.130	.070	.021	.123	.067	.020	
5.0	.141	.072	.021	.137	.070	.021	.130	.068	.020	.124	.066	.019	.118	.063	.019	
6.0	.134	.067	.019	.130	.066	.019	.125	.064	.019	.119	.062	.018	.114	.060	.018	
7.0	.127	.063	.018	.124	.062	.018	.119	.060	.017	.114	.059	.017	.110	.057	.017	
8.0	.121	.059	.017	.119	.058	.017	.114	.057	.016	.110	.056	.016	.106	.054	.016	
9.0	.116	.056	.016	.113	.055	.016	.109	.054	.015	.105	.053	.015	.102	.052	.015	
10.0	.110	.053	.015	.109	.052	.015	.105	.051	.014	.101	.050	.014	.098	.049	.014	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.191	.191	.191	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.156	.133	.113	.133	.114	.098	.091	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.143	.114	.090	.122	.098	.078	.084	.068	.055	.049	.040	.032	.016	.013	.011	
4.0	.132	.099	.073	.113	.085	.064	.078	.060	.045	.045	.035	.027	.015	.011	.009	
5.0	.123	.087	.061	.106	.075	.053	.073	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.115	.078	.051	.099	.067	.044	.068	.047	.031	.040	.028	.019	.013	.009	.006	
7.0	.108	.070	.043	.093	.061	.038	.064	.043	.027	.037	.025	.016	.012	.008	.005	
8.0	.102	.064	.037	.088	.055	.032	.061	.039	.023	.035	.023	.014	.011	.008	.005	
9.0	.097	.058	.032	.084	.051	.028	.058	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.092	.054	.028	.080	.047	.025	.055	.033	.018	.032	.019	.010	.010	.006	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2017-05-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.292
 Humidity:65.0%
 Test Distance:1.148m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.04V I:0.0661A P:7.4500W PF:0.9389 Freq:50.00Hz Lamp Flux:523.188x1 lm										
NAME: PAR16-8-930-35D-DIM					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: RAB Lighting Inc					SUR.:			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	12.4	13.3	12.6	13.5	13.6	11.1	12.0	11.3	12.2	12.3
3H	12.5	13.3	12.7	13.5	13.7	11.2	12.1	11.5	12.3	12.5
4H	12.5	13.3	12.8	13.5	13.8	11.3	12.1	11.6	12.3	12.5
6H	12.6	13.3	12.9	13.5	13.8	11.3	12.0	11.6	12.3	12.5
8H	12.6	13.3	12.9	13.5	13.8	11.3	12.0	11.6	12.2	12.5
12H	12.6	13.2	12.9	13.5	13.8	11.2	11.9	11.5	12.2	12.4
4H 2H	12.3	13.1	12.6	13.3	13.5	11.1	11.8	11.3	12.1	12.3
3H	12.5	13.1	12.8	13.4	13.7	11.3	12.0	11.6	12.2	12.5
4H	12.6	13.2	12.9	13.5	13.8	11.4	12.0	11.7	12.3	12.6
6H	12.6	13.2	13.0	13.5	13.9	11.4	12.0	11.8	12.3	12.7
8H	12.7	13.2	13.1	13.5	13.9	11.4	11.9	11.8	12.3	12.6
12H	12.7	13.1	13.1	13.5	13.9	11.4	11.8	11.8	12.2	12.6
8H 4H	12.5	13.0	12.9	13.4	13.7	11.4	11.9	11.8	12.2	12.6
6H	12.6	13.0	13.1	13.4	13.9	11.4	11.9	11.9	12.3	12.7
8H	12.7	13.0	13.1	13.5	13.9	11.4	11.8	11.9	12.2	12.7
12H	12.7	13.0	13.2	13.4	13.9	11.4	11.7	11.9	12.2	12.6
12H 4H	12.5	12.9	12.9	13.3	13.7	11.3	11.8	11.7	12.2	12.6
6H	12.6	13.0	13.0	13.4	13.8	11.4	11.8	11.9	12.2	12.7
8H	12.6	13.0	13.1	13.4	13.9	11.4	11.7	11.9	12.2	12.7
Variations with the observer position at spacings:										
S = 1.0H	+ 2.3 / - 3.1					+ 1.6 / - 2.8				
1.5H	+ 3.5 / - 3.1					+ 2.4 / - 2.3				
2.0H	+ 4.2 / - 2.5					+ 3.1 / - 2.0				

CIE Pub.117, 523.2 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.3)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2017-05-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.292
 Humidity:65.0%
 Test Distance:1.148m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.04V I:0.0661A P:7.4500W PF:0.9389 Freq:50.00Hz Lamp Flux:523.188x1 lm		
NAME: PAR16-8-930-35D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:

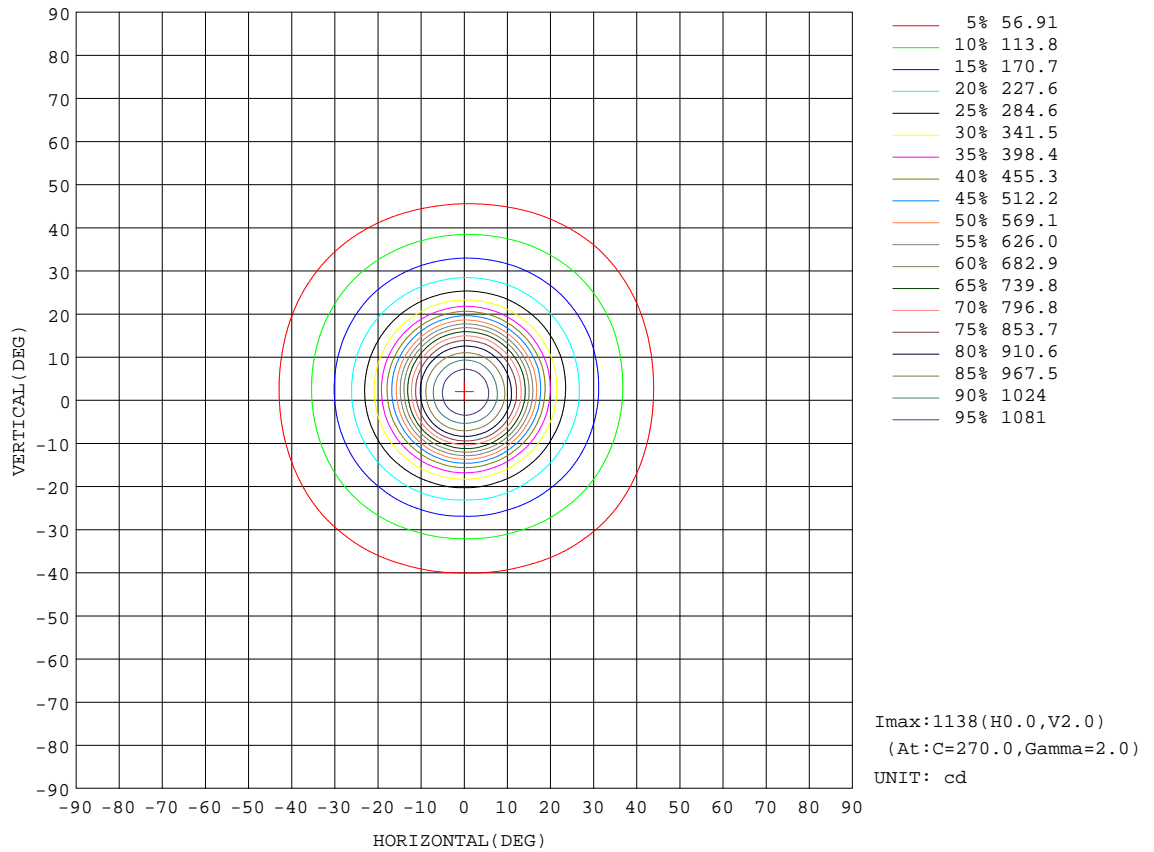
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	84	77	73	84	77	73	83	77	73	69
0.80	92	86	82	91	85	82	90	85	81	77
1.00	97	91	87	96	91	87	95	91	86	82
1.25	102	96	92	100	95	92	98	94	91	87
1.50	104	99	96	103	99	95	101	97	94	89
2.00	108	103	100	106	102	99	103	100	97	92
2.50	109	105	102	108	104	101	105	102	99	93
3.00	111	107	104	109	106	103	106	103	101	95
4.00	113	110	108	111	109	106	107	105	104	96
5.00	114	112	110	112	110	108	108	107	105	98
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2017-05-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.292
 Humidity:65.0%
 Test Distance:1.148m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.04V I:0.0661A P:7.4500W PF:0.9389 Freq:50.00Hz Lamp Flux:523.188x1 lm		
NAME: PAR16-8-930-35D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:

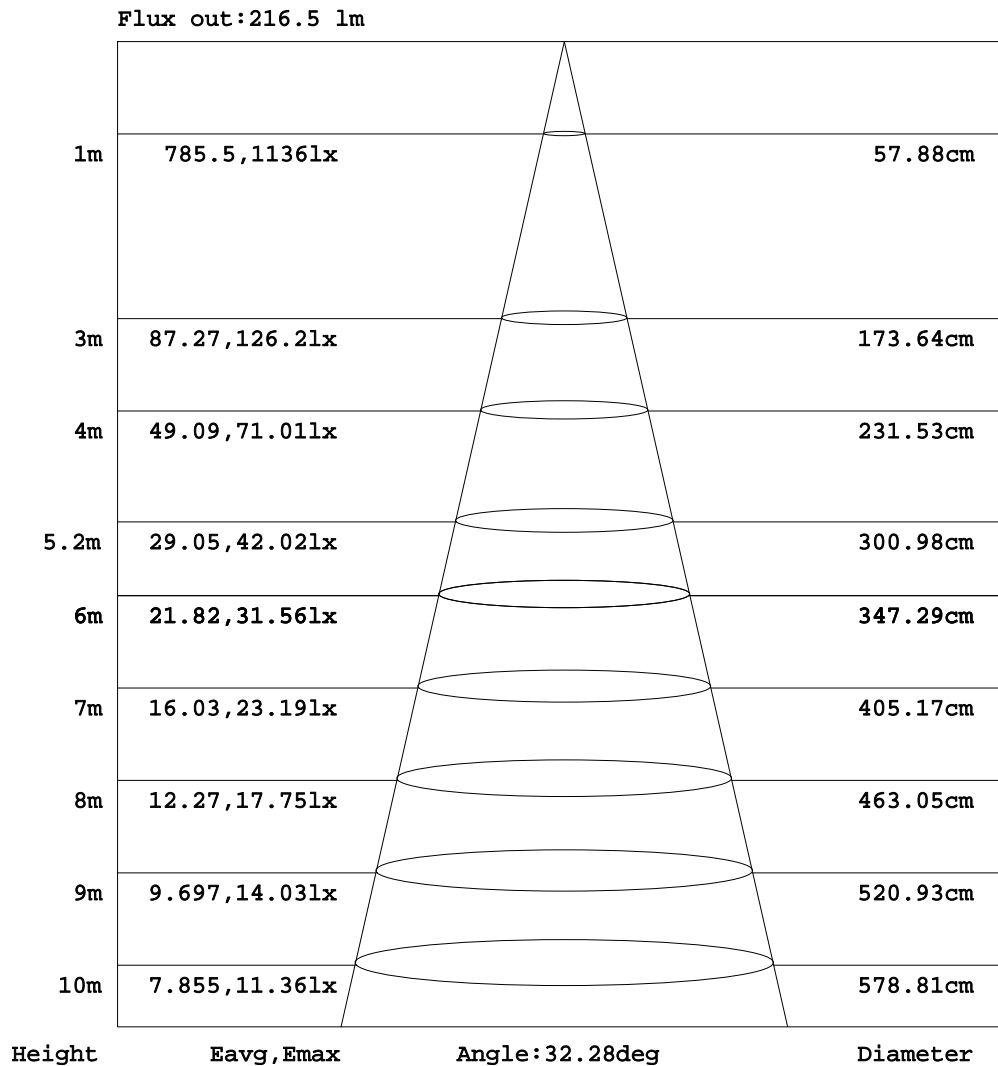


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
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 Operators:
 Test Date: 2017-05-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.292
 Humidity: 65.0%
 Test Distance: 1.148m [K=1.0000]
 Remarks:

AAI Figure

Test:U:120.04V I:0.0661A P:7.4500W PF:0.9389 Freq:50.00Hz Lamp Flux:523.188x1 lm		
NAME: PAR16-8-930-35D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:



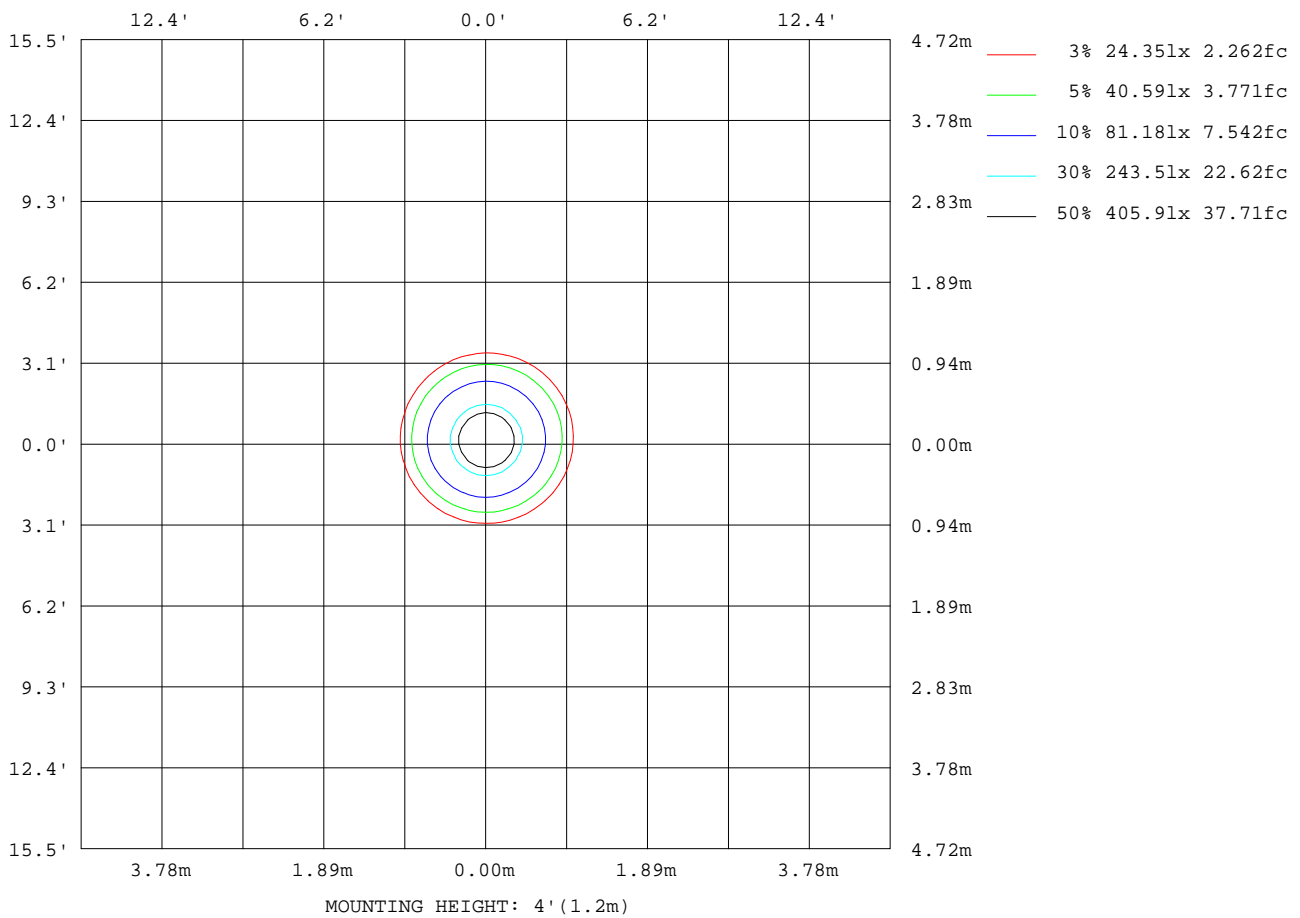
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2017-05-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.292
 Humidity: 65.0%
 Test Distance: 1.148m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.04V I:0.0661A P:7.4500W PF:0.9389 Freq:50.00Hz Lamp Flux:523.188x1 lm		
NAME: PAR16-8-930-35D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2017-05-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.292
 Humidity: 65.0%
 Test Distance: 1.148m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:120.04V I:0.0661A P:7.4500W PF:0.9389 Freq:50.00Hz Lamp Flux:523.188x1 lm		
NAME: PAR16-8-930-35D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:

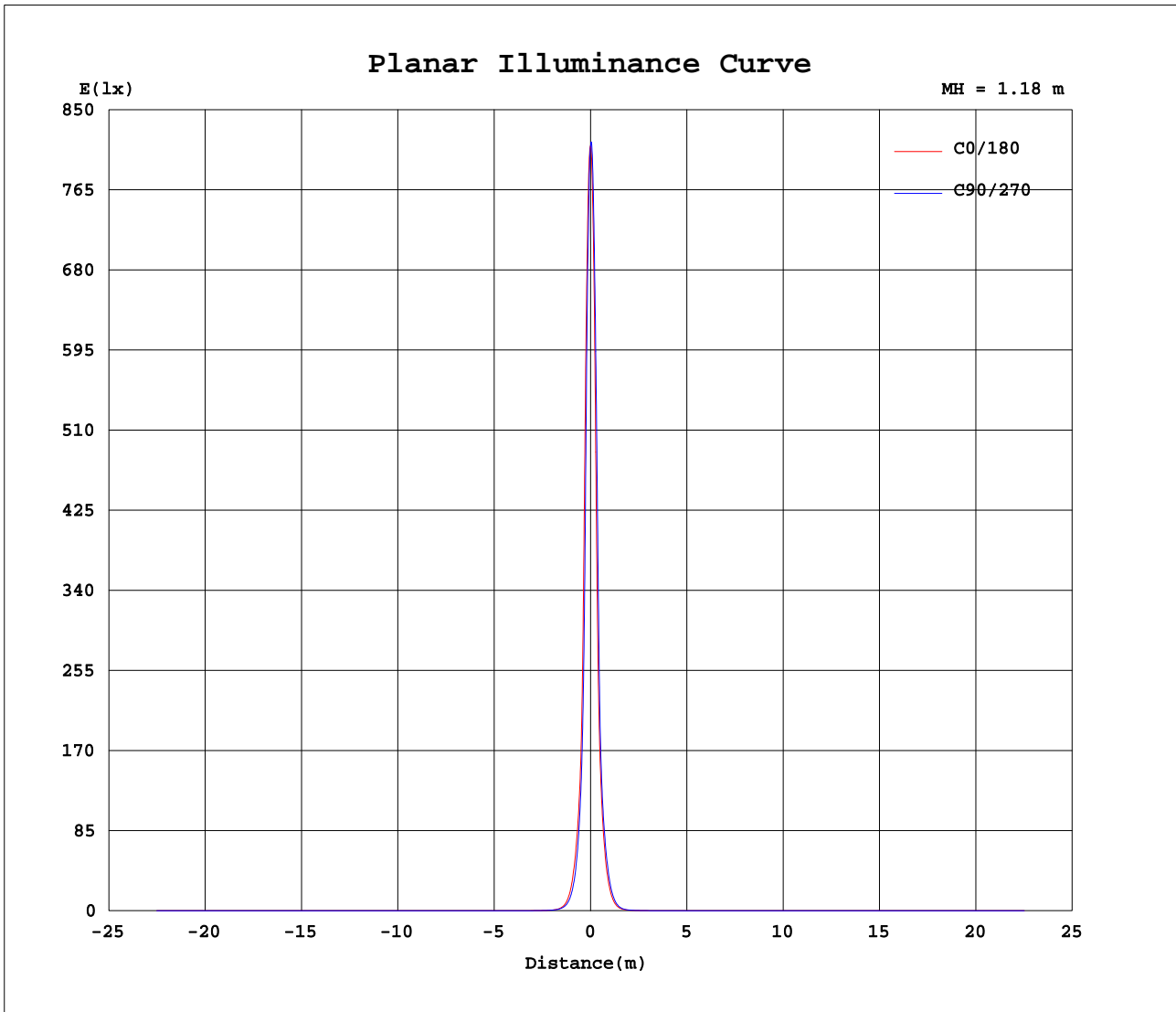
AvgL	cd/m2
L_0~180(65)av	529
L_0~180(75)av	439
L_0~180(85)av	282
L_90~270(65)av	531
L_90~270(75)av	435
L_90~270(85)av	293
L_45(65)av	520
L_45(75)av	430
L_45(85)av	283

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2017-05-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.292
 Humidity:65.0%
 Test Distance:1.148m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2017-05-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.292
 Humidity: 65.0%
 Test Distance: 1.148m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.04V I:0.0661A P:7.4500W PF:0.9389 Freq:50.00Hz Lamp Flux:523.188x1 lm		
NAME: PAR16-8-930-35D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130			
5	1090	1073	1057	1041	1035	1038	1048	1063	1077	1091	1106	1118	1122	1118	1114	1104			
10	943	907	870	837	819	821	845	877	911	949	974	992	1003	1002	985	965			
15	676	601	540	503	488	491	513	554	603	666	720	768	794	794	768	730			
20	388	343	313	297	292	296	311	335	365	397	430	464	491	489	466	434			
25	250	230	213	201	196	201	212	227	246	260	272	283	292	293	285	272			
30	182	166	150	139	134	137	145	158	171	183	194	201	206	206	202	195			
35	130	115	101	92.8	89.3	91.0	97.8	106	117	127	138	144	149	150	147	141			
40	84.0	73.9	65.6	59.8	57.1	58.4	62.1	68.0	75.5	82.6	88.6	95.2	99.3	101	99.2	94.1			
45	50.1	44.7	39.8	36.2	34.8	35.1	36.2	40.3	44.9	49.7	53.5	57.6	60.3	61.5	60.2	56.2			
50	27.3	24.9	22.6	20.9	20.5	20.1	20.2	22.2	24.0	26.1	28.6	30.7	32.7	33.3	32.1	29.9			
55	14.3	13.5	12.8	12.4	12.2	11.7	11.3	11.9	12.4	13.0	14.3	15.4	16.3	16.4	15.7	15.3			
60	8.45	8.07	7.87	7.80	7.65	7.35	7.13	7.33	7.45	7.74	8.20	8.56	8.71	8.65	8.54	8.64			
65	5.94	5.78	5.60	5.56	5.46	5.25	5.07	5.20	5.36	5.50	5.71	5.91	5.88	5.84	5.83	5.97			
70	4.43	4.27	4.08	3.98	3.87	3.71	3.61	3.72	3.93	4.09	4.22	4.39	4.40	4.40	4.37	4.45			
75	3.13	2.95	2.70	2.56	2.45	2.34	2.30	2.40	2.62	2.83	3.01	3.20	3.24	3.27	3.23	3.22			
80	1.88	1.69	1.46	1.30	1.19	1.13	1.13	1.24	1.41	1.63	1.83	2.03	2.10	2.13	2.09	1.99			
85	0.80	0.62	0.44	0.32	0.24	0.22	0.24	0.32	0.44	0.61	0.78	0.95	1.05	1.09	1.02	0.92			
90	0.09	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.08	0.16	0.23	0.26	0.23	0.17			
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
135	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01			
140	0.01	0.01	0.01	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
145	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02			
150	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.02	0.02	0.03	0.03			
155	0.05	0.06	0.06	0.07	0.07	0.07	0.07	0.06	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04			
160	0.08	0.09	0.09	0.10	0.10	0.10	0.10	0.09	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07			
165	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.10	0.10	0.10	0.10	0.10			
170	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11			
175	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07			
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			

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