

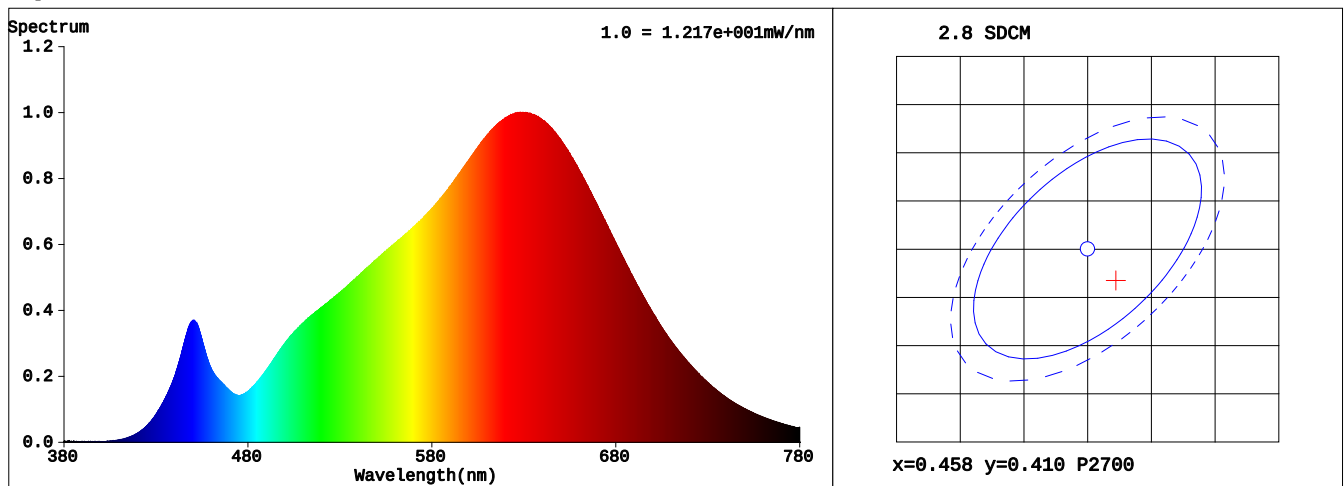
Spectrum Test Report

Sample	:	Date	: 2017-04-01 16:30:24
Specification	:	Standard	:
Sample No.	: MR16-8-927-25D-DIM	Instrument	: HaasSuite(EVERFINE)
Manufacturer	: RAB Lighting Inc	Test by	:
Remark	:		

Test Condition

Temperature	: 22.9Deg	RH	: 30.1%
WL Range	: 380nm-780nm	IP	: 47376 (72%)
Test Mode	: Fast Test	T	: 70 ms
Sensitivity	: High		

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4602$ $y = 0.4067$ / $u' = 0.2645$ $v' = 0.5259$ ($duv = -1.46e-03$)

CCT= 2665K Prpc WL: Ld=584.9nm Purity=60.2%

Peak WL: Lp=628nm FWHM: =150.2nm Ratio:R=28.6% G=69.4% B=2.1%

Render Index: Ra = 94.1 TM30:Rf=91 Rg=102

R1 =95 R2 =97 R3 =97 R4 =94 R5 =94 R6 =96 R7 =93

R8 =86 R9 =69 R10=91 R11=95 R12=88 R13=95 R14=97 R15=92

LEVEL:OUT WHITE:ANSI_2700K

Photometric & Radiometric Parameters

Flux = 543.25 lm Eff. : 69.03 lm/W Fe = 2.0162 W

Flux of emitted photons($\mu\text{mol/s}$):10.166 Fluo. and blue light ratio:14.55 Fluorescent eff.:220.2

Electrical parameters

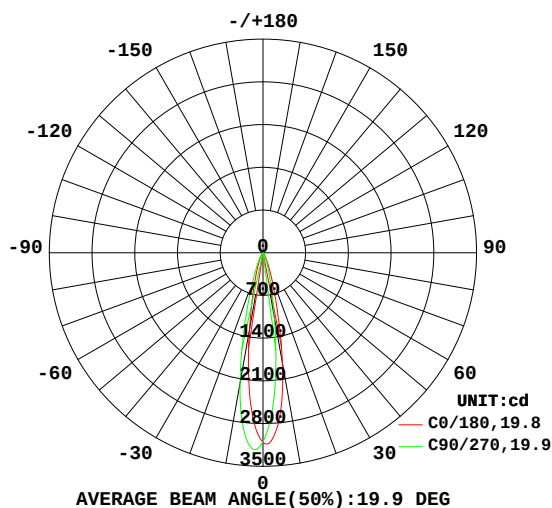
V = 12.05 V I = 0.7112 A P = 7.870 W PF = 0.9183

LUMINAIRE PHOTOMETRIC TEST REPORT

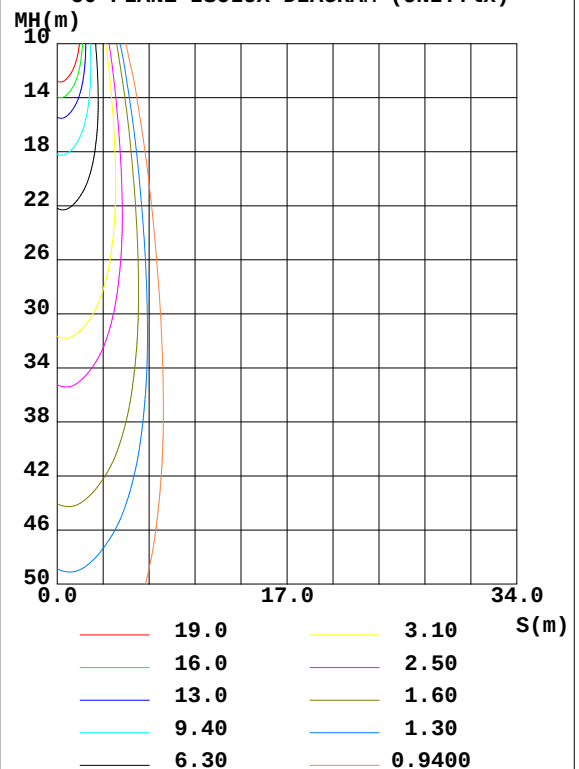
Test:U:11.99V I:0.7253A P:7.990W PF:0.9188 Freq:50.00Hz Lamp Flux:570.499x1 lm		
NAME: MR16-8-927-25D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 71.40 lm/W			
MODEL		I _{max} (cd)	3274	S/MH(C0/180)	0.30
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.42
RATED VOLTAGE(V)	12	TOTAL FLUX(lm)	570.50	η UP, DN(C0-180)	0.1, 40.5
NOMINAL FLUX(lm)	570.499	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1, 59.3
LAMPS INSIDE	1	η up(%)	0.2	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	12	η down(%)	99.8	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:
Test Date:2017-04-01

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.292
Humidity:29.6%
Test Distance:1.197m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

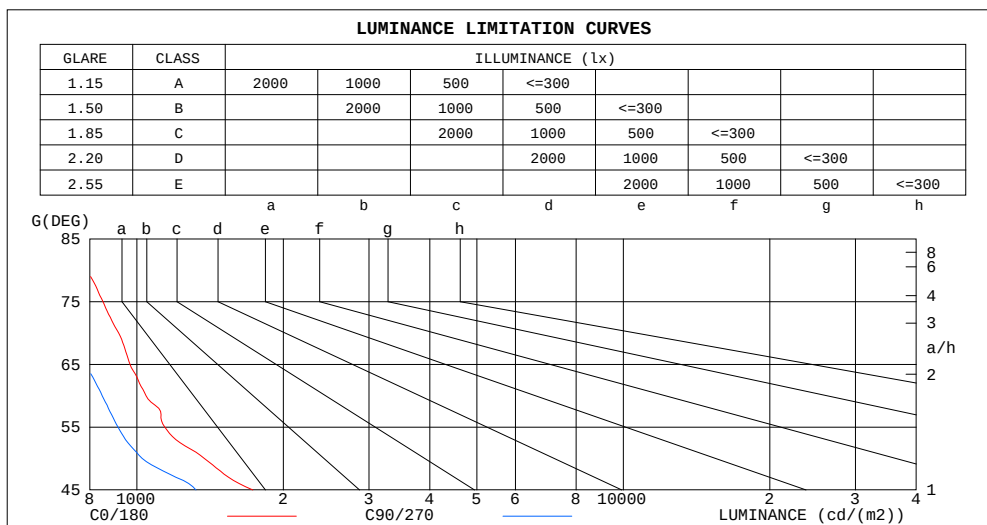
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1831	1346	1070	1052	1281	1709	2174	2267	0- 10	217.0	217.0	38,38
20	357.9	250.0	208.6	214.4	265.7	367.0	487.5	498.4	10- 20	211.2	428.2	75.1,75.1
30	92.36	66.80	60.24	65.32	78.58	101.2	125.1	124.8	20- 30	78.83	507.0	88.9,88.9
40	27.56	20.18	18.06	19.63	23.93	31.16	39.54	41.15	30- 40	32.43	539.5	94.6,94.6
50	11.73	9.302	8.749	9.408	11.00	12.40	13.92	13.57	40- 50	13.27	552.7	96.9,96.9
60	6.929	5.639	5.629	5.924	6.829	7.243	7.620	7.645	50- 60	7.637	560.4	98.2,98.2
70	4.164	3.483	3.155	3.243	3.811	4.275	4.530	4.585	60- 70	5.168	565.5	99.1,99.1
80	1.809	1.372	1.043	1.008	1.294	1.712	1.966	2.051	70- 80	2.811	568.4	99.6,99.6
90	0.1792	0.0596	0.0584	0.0564	0.0645	0.1208	0.2364	0.2816	80- 90	0.7468	569.1	99.8,99.8
100	0.0731	0.0770	0.0804	0.0773	0.0739	0.0672	0.0665	0.0671	90-100	0.0798	569.2	99.8,99.8
110	0.1027	0.1091	0.1120	0.1101	0.1025	0.0979	0.0939	0.0961	100-110	0.0919	569.3	99.8,99.8
120	0.1692	0.1807	0.1865	0.1852	0.1577	0.1534	0.1374	0.1483	110-120	0.1270	569.4	99.8,99.8
130	0.2724	0.3176	4.421	1.848	0.3687	0.2749	0.2378	0.2461	120-130	0.2423	569.6	99.8,99.8
140	0.3526	0.2705	0.2619	0.2378	0.2420	0.2680	0.2595	0.3016	130-140	0.5059	570.1	99.9,99.9
150	0.2481	0.2370	0.2259	0.2125	0.2095	0.2098	0.2281	0.2451	140-150	0.1566	570.3	100,100
160	0.2207	0.2499	0.2585	0.2506	0.2330	0.2164	0.2130	0.2207	150-160	0.1021	570.4	100,100
170	0.2462	0.2641	0.2702	0.2787	0.2975	0.2749	0.2726	0.2366	160-170	0.0745	570.5	100,100
180	0	0	0	0	0	0	0	0	170-180	0.0191	570.5	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:
 Test Date:2017-04-01

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.292
 Humidity:29.6%
 Test Distance:1.197m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:11.99V I:0.7253A P:7.990W PF:0.9188 Freq:50.00Hz Lamp Flux:570.499x1 lm		
NAME: MR16-8-927-25D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:



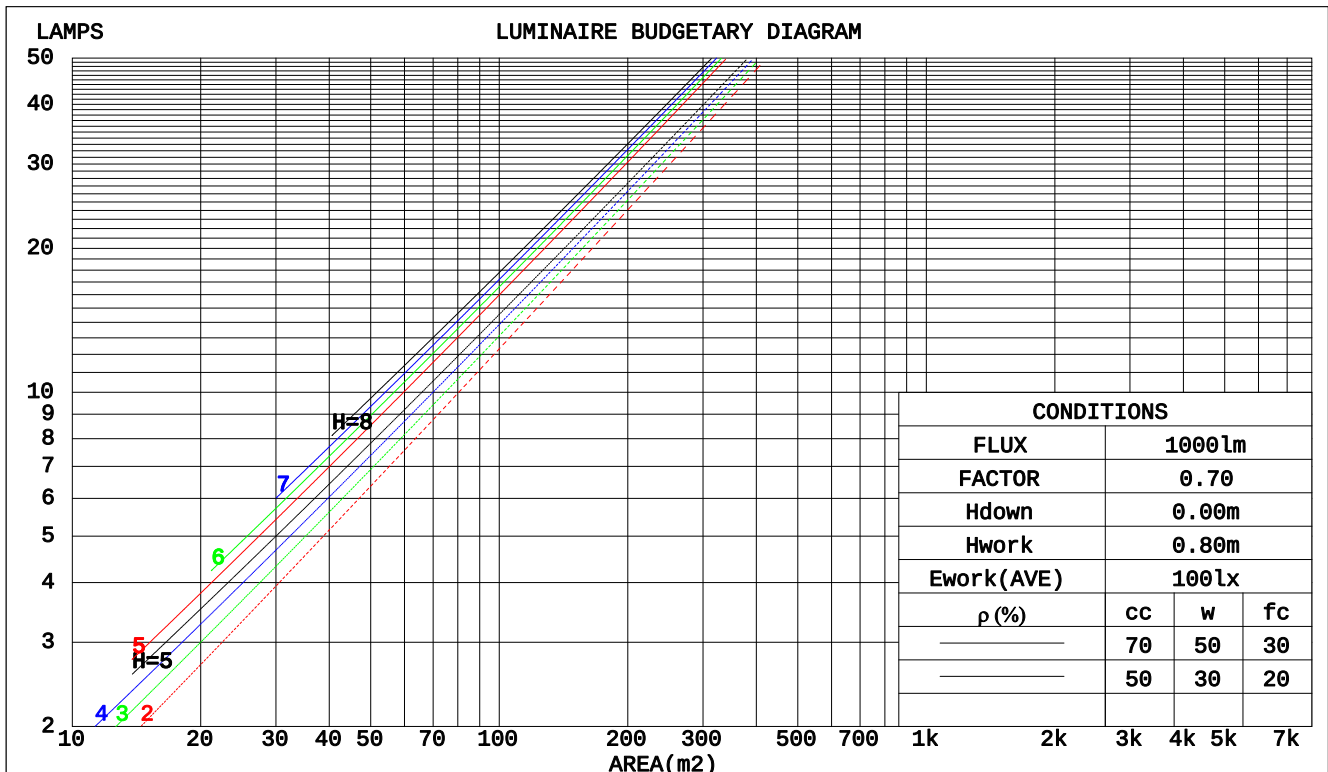
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C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.2DEG
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γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.292
Humidity: 29.6%
Test Distance: 1.197m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:11.99V I:0.7253A P:7.990W PF:0.9188 Freq:50.00Hz Lamp Flux:570.499x1 lm		
NAME: MR16-8-927-25D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	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	1.12	1.10	1.08	1.10	1.08	1.07	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.07	1.03	1.01	1.05	1.02	.99	1.02	.99	.97	.99	.97	.95	.96	.95	.93	.92
3.0	1.02	.98	.95	1.00	.97	.94	.98	.95	.93	.95	.93	.91	.93	.91	.90	.88
4.0	.97	.93	.90	.96	.92	.89	.94	.91	.88	.92	.90	.87	.91	.88	.86	.85
5.0	.94	.89	.86	.93	.89	.86	.91	.88	.85	.90	.87	.84	.88	.86	.84	.82
6.0	.90	.86	.83	.90	.85	.82	.88	.85	.82	.87	.84	.81	.86	.83	.81	.80
7.0	.87	.83	.80	.87	.83	.80	.86	.82	.79	.84	.81	.79	.83	.81	.78	.77
8.0	.85	.80	.77	.84	.80	.77	.83	.79	.77	.82	.79	.76	.81	.78	.76	.75
9.0	.82	.78	.75	.82	.78	.75	.81	.77	.75	.80	.77	.74	.79	.76	.74	.73
10.0	.80	.76	.73	.79	.75	.73	.79	.75	.73	.78	.75	.72	.77	.74	.72	.71



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.2DEG
 Operators:
 Test Date: 2017-04-01

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.292
 Humidity: 29.6%
 Test Distance: 1.197m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:11.99V I:0.7253A P:7.990W PF:0.9188 Freq:50.00Hz Lamp Flux:570.499x1 lm									
NAME: MR16-8-927-25D-DIM					TYPE:			WEIGHT:	
SPEC.:					DIM.:			SERIAL No.:	
MFR.: RAB Lighting Inc					SUR.:			Shielding Angle:	

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.146	.083	.026	.140	.080	.025	.127	.073	.023	.116	.067	.021	.105	.061	.020	
2.0	.136	.075	.023	.130	.072	.022	.120	.067	.021	.110	.062	.019	.102	.057	.018	
3.0	.127	.067	.020	.122	.065	.020	.113	.061	.019	.105	.058	.018	.098	.054	.017	
4.0	.118	.061	.018	.114	.060	.018	.107	.057	.017	.100	.054	.016	.094	.051	.015	
5.0	.111	.057	.016	.108	.055	.016	.101	.053	.016	.095	.050	.015	.090	.048	.014	
6.0	.105	.052	.015	.102	.051	.015	.096	.049	.014	.091	.047	.014	.086	.045	.013	
7.0	.099	.049	.014	.096	.048	.014	.092	.046	.013	.087	.045	.013	.083	.043	.013	
8.0	.094	.046	.013	.092	.045	.013	.088	.044	.012	.084	.042	.012	.080	.041	.012	
9.0	.089	.043	.012	.088	.043	.012	.084	.041	.012	.080	.040	.012	.077	.039	.011	
10.0	.085	.041	.011	.084	.040	.011	.080	.039	.011	.077	.038	.011	.074	.037	.011	

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	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.171	.159	.149	.146	.137	.128	.100	.094	.089	.058	.054	.052	.018	.018	.017	
2.0	.153	.135	.119	.131	.116	.103	.090	.080	.072	.052	.047	.042	.017	.015	.014	
3.0	.139	.115	.096	.119	.099	.084	.082	.069	.059	.047	.040	.035	.015	.013	.011	
4.0	.126	.100	.080	.109	.086	.069	.075	.060	.049	.043	.035	.029	.014	.011	.009	
5.0	.116	.088	.067	.100	.076	.058	.069	.053	.041	.040	.031	.024	.013	.010	.008	
6.0	.107	.078	.057	.092	.067	.049	.064	.047	.035	.037	.028	.021	.012	.009	.007	
7.0	.100	.070	.049	.086	.060	.042	.059	.042	.030	.034	.025	.018	.011	.008	.006	
8.0	.093	.063	.042	.080	.055	.037	.055	.038	.026	.032	.023	.016	.010	.007	.005	
9.0	.087	.057	.037	.075	.050	.032	.052	.035	.023	.030	.021	.014	.010	.007	.005	
10.0	.082	.053	.033	.071	.046	.029	.049	.032	.020	.029	.019	.012	.009	.006	.004	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:
 Test Date:2017-04-01

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.292
 Humidity:29.6%
 Test Distance:1.197m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:11.99V I:0.7253A P:7.990W PF:0.9188 Freq:50.00Hz Lamp Flux:570.499x1 lm											
NAME: MR16-8-927-25D-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	2H	6.3	7.0	6.5	7.1	7.3	4.9	5.6	5.1	5.8	5.9
	3H	7.1	7.8	7.4	8.0	8.1	5.8	6.4	6.0	6.6	6.8
	4H	7.5	8.1	7.8	8.3	8.5	6.1	6.7	6.3	6.9	7.1
	6H	7.8	8.4	8.1	8.6	8.9	6.3	6.8	6.5	7.1	7.3
	8H	7.9	8.5	8.2	8.7	9.0	6.3	6.8	6.6	7.1	7.4
	12H	8.0	8.5	8.3	8.8	9.1	6.3	6.8	6.6	7.1	7.3
4H	2H	6.5	7.1	6.7	7.3	7.5	5.3	5.9	5.5	6.1	6.3
	3H	7.5	8.0	7.8	8.3	8.6	6.3	6.9	6.6	7.1	7.4
	4H	8.0	8.5	8.3	8.8	9.1	6.7	7.2	7.1	7.5	7.8
	6H	8.4	8.8	8.8	9.2	9.5	7.0	7.5	7.4	7.8	8.1
	8H	8.5	9.0	8.9	9.3	9.7	7.1	7.5	7.4	7.8	8.2
	12H	8.6	9.0	9.1	9.4	9.8	7.0	7.4	7.5	7.8	8.2
8H	4H	8.1	8.5	8.5	8.8	9.2	6.9	7.3	7.3	7.7	8.1
	6H	8.6	8.9	9.0	9.3	9.7	7.3	7.6	7.7	8.0	8.4
	8H	8.8	9.1	9.2	9.5	9.9	7.4	7.7	7.8	8.1	8.5
	12H	8.9	9.2	9.4	9.6	10.1	7.4	7.6	7.9	8.1	8.6
12H	4H	8.0	8.4	8.4	8.8	9.2	6.9	7.3	7.3	7.7	8.1
	6H	8.6	8.9	9.0	9.3	9.7	7.3	7.6	7.8	8.0	8.5
	8H	8.8	9.1	9.3	9.5	10.0	7.4	7.7	7.9	8.1	8.6
Variations with the observer position at spacings:											
S = 1.0H	+ 1.0 / - 0.7					+ 0.5 / - 0.7					
1.5H	+ 2.0 / - 0.6					+ 1.0 / - 0.6					
2.0H	+ 1.1 / - 0.6					+ 0.8 / - 0.4					

CIE Pub.117, 570.5 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -1.9)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:
Test Date:2017-04-01

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.292
Humidity:29.6%
Test Distance:1.197m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:11.99V I:0.7253A P:7.990W PF:0.9188 Freq:50.00Hz Lamp Flux:570.499x1 lm		
NAME: MR16-8-927-25D-DIM	TYPE:	WEIGHT:
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MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:

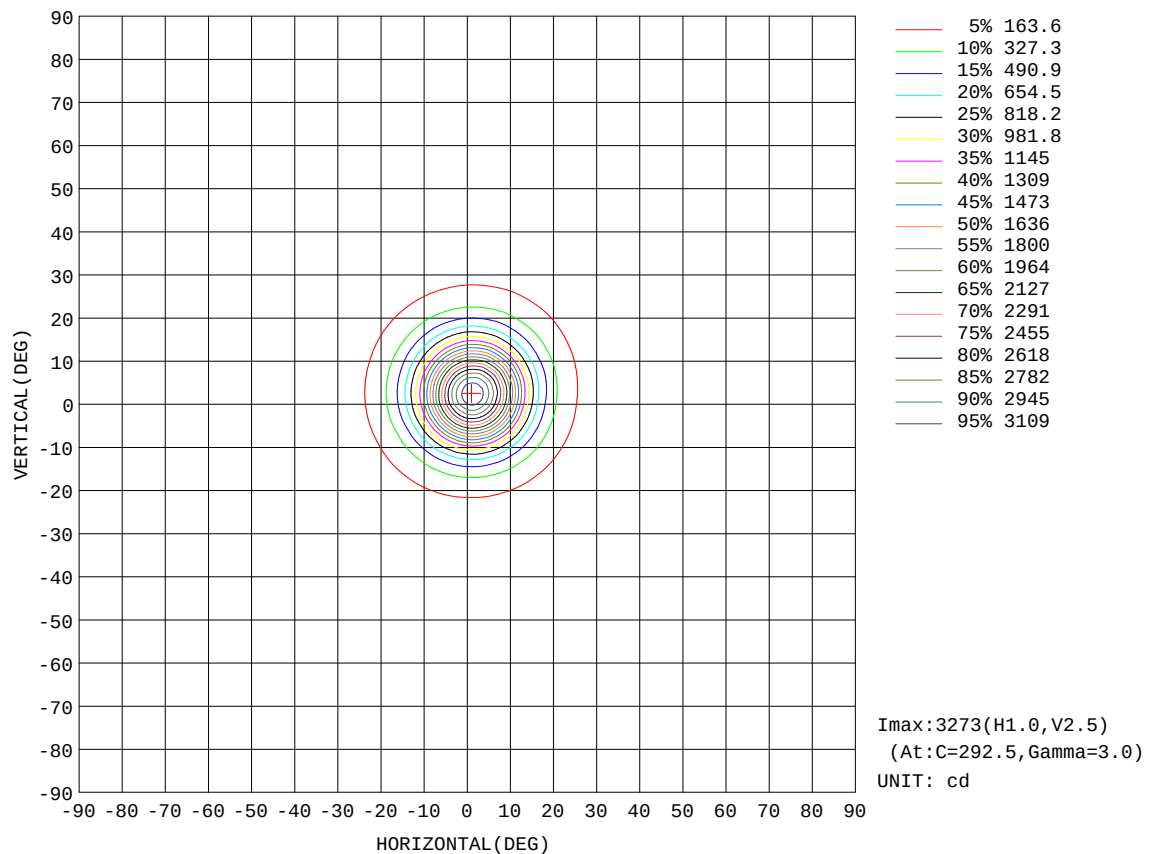
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	88	82	78	88	82	78	87	81	78	75
0.80	95	90	86	95	89	86	94	89	86	82
1.00	100	94	91	99	94	90	97	93	90	86
1.25	103	98	95	102	98	95	100	97	94	90
1.50	106	101	98	105	101	98	103	99	97	92
2.00	109	104	101	107	103	101	104	101	99	94
2.50	110	106	104	109	105	103	106	103	101	95
3.00	112	108	106	110	107	105	107	104	102	96
4.00	114	111	109	112	109	107	108	106	105	98
5.00	115	113	111	113	111	109	109	108	106	99
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:25.2DEG
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γ Range: 0 - 180DEG
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ISOCANDELA DIAGRAM

Test:U:11.99V I:0.7253A P:7.990W PF:0.9188 Freq:50.00Hz Lamp Flux:570.499x1 lm		
NAME: MR16-8-927-25D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
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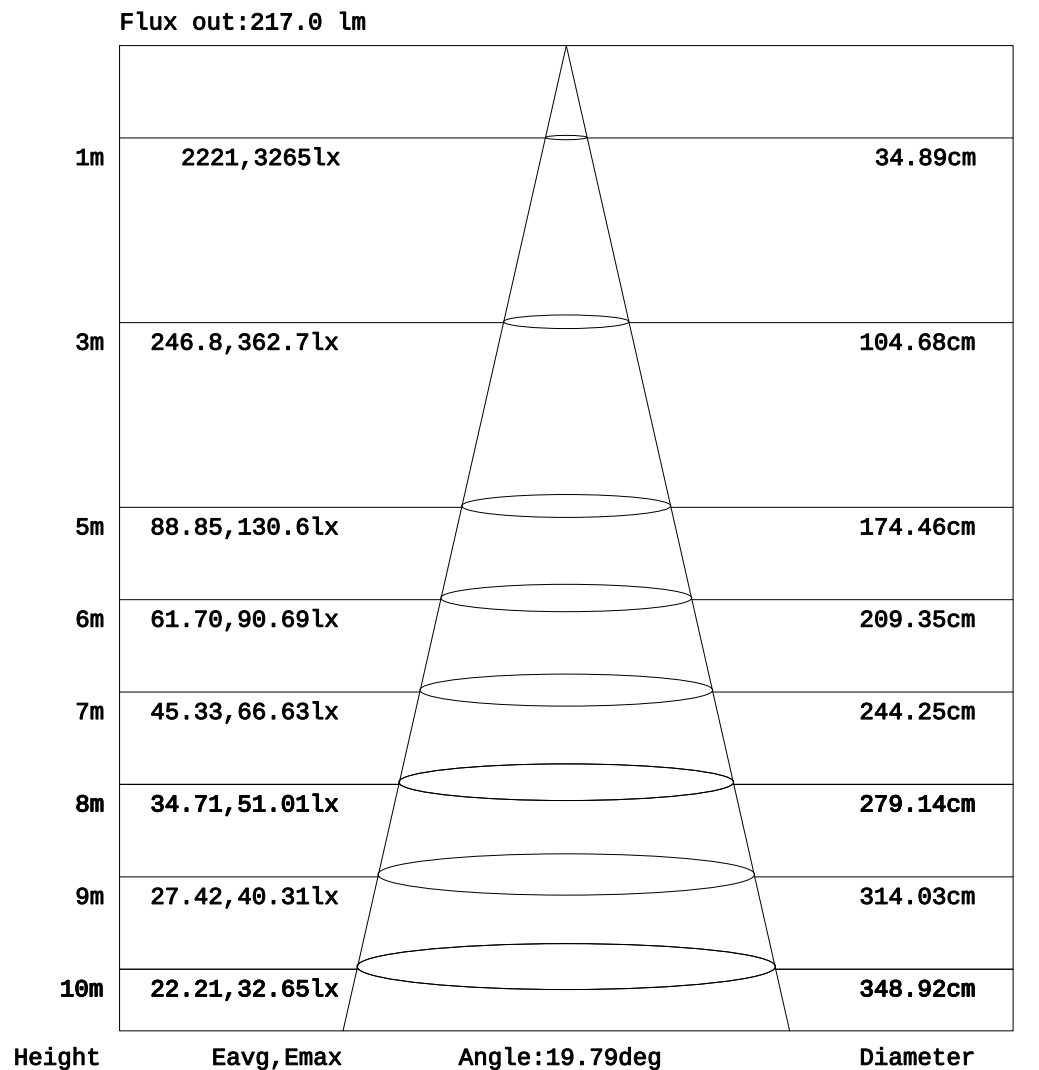


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AAI Figure

Test:U:11.99V I:0.7253A P:7.990W PF:0.9188 Freq:50.00Hz Lamp Flux:570.499x1 lm		
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SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:



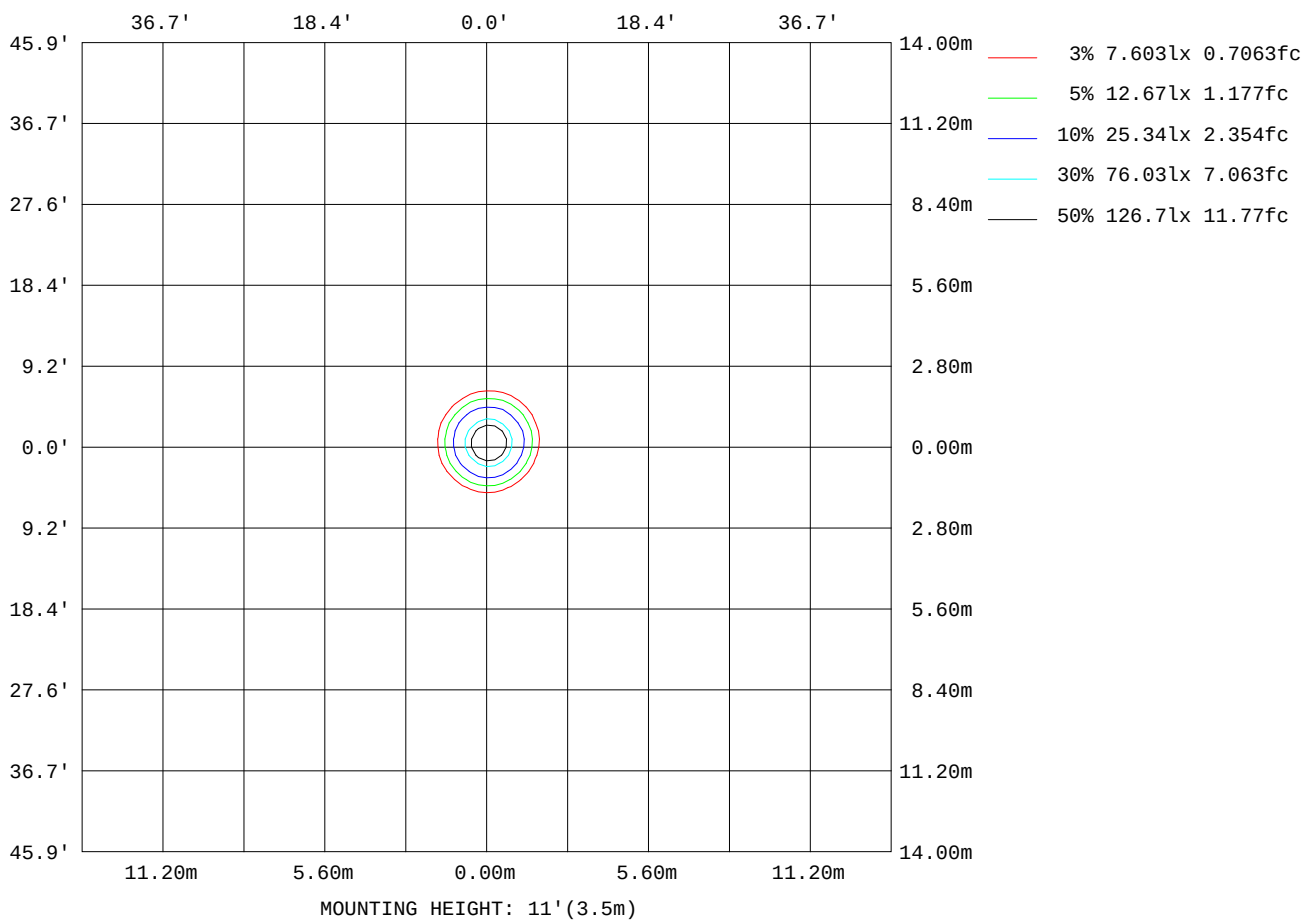
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.2DEG
 Operators:
 Test Date: 2017-04-01

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.292
 Humidity: 29.6%
 Test Distance: 1.197m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:11.99V I:0.7253A P:7.990W PF:0.9188 Freq:50.00Hz Lamp Flux:570.499x1 lm		
NAME: MR16-8-927-25D-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: 25.2DEG
Operators:
Test Date: 2017-04-01

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.292
Humidity: 29.6%
Test Distance: 1.197m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:11.99V I:0.7253A P:7.990W PF:0.9188 Freq:50.00Hz Lamp Flux:570.499x1 lm		
NAME: MR16-8-927-25D-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:	Shielding Angle:

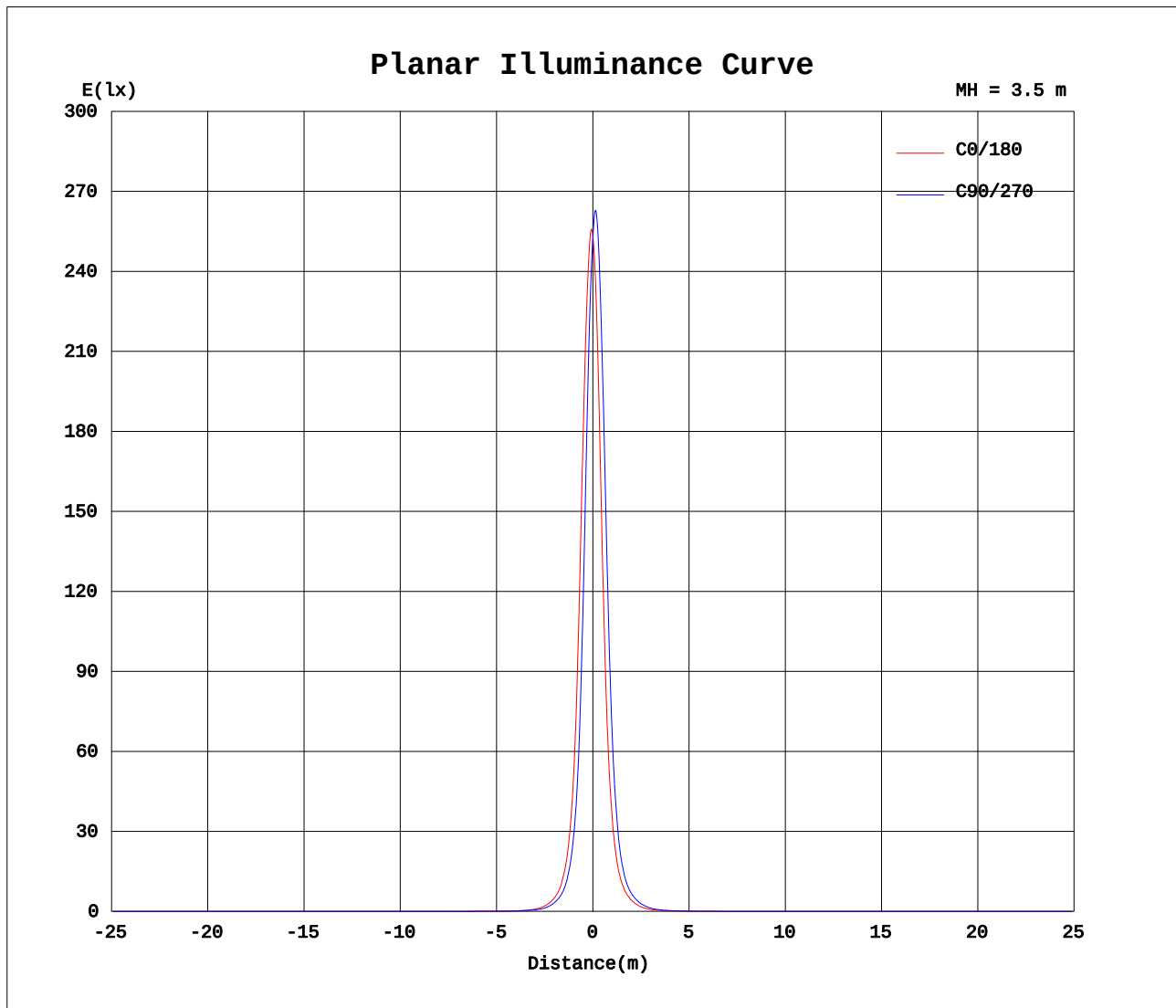
AvgL	cd/m2
L_0~180(65)av	952
L_0~180(75)av	786
L_0~180(85)av	531
L_90~270(65)av	927
L_90~270(75)av	760
L_90~270(85)av	523
L_45(65)av	929
L_45(75)av	774
L_45(85)av	535

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:
 Test Date:2017-04-01

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.0.292
 Humidity:29.6%
 Test Distance:1.197m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.2DEG
Operators:
Test Date: 2017-04-01

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.0.292
Humidity: 29.6%
Test Distance: 1.197m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:11.99V I:0.7253A P:7.990W PF:0.9188 Freq:50.00Hz Lamp Flux:570.499x1 lm																	
NAME: MR16-8-927-25D-DIM									TYPE:						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:		
MFR.: RAB Lighting Inc									SUR.:						Shielding Angle:		

Table--1

UNIT: cd

C(DEC) γ (DEC)	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	3105	3100	3097	3093	3092	3092	3092	3094	3105	3100	3097	3093	3092	3092	3092	3094			
5	2829	2657	2488	2338	2236	2187	2199	2265	2421	2581	2762	2933	3078	3141	3109	2992			
10	1831	1577	1346	1174	1070	1033	1052	1127	1281	1472	1709	1959	2174	2294	2267	2099			
15	821	670	560	486	446	432	446	487	577	672	806	953	1091	1158	1121	1002			
20	358	297	250	222	209	208	214	231	266	311	367	430	488	517	498	437			
25	171	143	122	111	106	107	113	122	138	156	180	206	230	241	234	208			
30	92.4	78.1	66.8	61.9	60.2	61.0	65.3	70.4	78.6	89.3	101	113	125	129	125	111			
35	51.0	42.7	35.2	32.7	32.5	33.2	36.8	39.6	43.6	50.4	56.5	64.2	71.9	74.9	73.2	63.6			
40	27.6	23.4	20.2	18.3	18.1	18.2	19.6	21.6	23.9	27.5	31.2	35.6	39.5	41.0	41.1	35.2			
45	16.2	14.1	12.9	12.4	12.4	12.8	13.2	14.3	15.4	16.4	17.8	19.7	21.4	21.9	21.5	19.3			
50	11.7	10.3	9.30	8.79	8.75	8.87	9.41	10.1	11.0	11.6	12.4	13.4	13.9	14.0	13.6	12.9			
55	8.69	7.74	6.91	6.83	6.96	6.98	7.42	7.82	8.72	8.89	9.11	9.48	9.69	9.61	9.67	9.12			
60	6.93	6.07	5.64	5.62	5.63	5.57	5.92	6.23	6.83	7.14	7.24	7.50	7.62	7.47	7.64	7.09			
65	5.43	4.93	4.57	4.50	4.38	4.31	4.54	4.80	5.25	5.56	5.71	5.92	6.02	5.82	6.01	5.57			
70	4.16	3.76	3.48	3.32	3.15	3.11	3.24	3.44	3.81	4.03	4.28	4.47	4.53	4.45	4.59	4.29			
75	2.93	2.61	2.40	2.21	2.04	2.00	2.05	2.21	2.47	2.69	2.94	3.12	3.18	3.19	3.25	3.09			
80	1.81	1.57	1.37	1.19	1.04	0.99	1.01	1.11	1.29	1.48	1.71	1.88	1.97	2.03	2.05	1.95			
85	0.82	0.65	0.50	0.36	0.27	0.23	0.25	0.31	0.41	0.54	0.70	0.84	0.94	1.01	1.02	0.94			
90	0.18	0.10	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.12	0.18	0.24	0.27	0.28	0.24			
95	0.06	0.06	0.06	0.07	0.07	0.06	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.06			
100	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.07			
105	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08			
110	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.09	0.09	0.09	0.10	0.10			
115	0.12	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.12	0.12	0.12	0.11	0.11	0.11	0.11	0.12			
120	0.17	0.19	0.18	0.18	0.19	0.19	0.19	0.17	0.16	0.16	0.15	0.15	0.14	0.14	0.15	0.15			
125	0.21	0.23	0.22	0.21	0.23	0.25	0.24	0.21	0.19	0.20	0.20	0.19	0.19	0.18	0.20	0.20			
130	0.27	0.30	0.32	1.03	4.42	1.72	1.85	2.07	0.37	0.31	0.27	0.24	0.24	0.22	0.25	0.24			
135	1.37	0.61	0.28	0.25	0.29	0.26	0.26	0.23	0.22	0.25	0.30	0.82	1.19	0.45	3.78	1.15			
140	0.35	0.34	0.27	0.25	0.26	0.23	0.24	0.22	0.24	0.28	0.27	0.26	0.26	0.25	0.30	0.31			
145	0.28	0.28	0.25	0.25	0.24	0.23	0.23	0.22	0.22	0.23	0.24	0.24	0.26	0.25	0.28	0.26			
150	0.25	0.24	0.24	0.24	0.23	0.22	0.21	0.22	0.21	0.20	0.21	0.22	0.23	0.22	0.25	0.25			
155	0.22	0.23	0.23	0.23	0.23	0.23	0.22	0.21	0.20	0.21	0.20	0.20	0.21	0.22	0.22	0.22			
160	0.22	0.23	0.25	0.26	0.26	0.26	0.25	0.24	0.23	0.23	0.22	0.21	0.21	0.22	0.22	0.23			
165	0.22	0.25	0.28	0.30	0.31	0.31	0.30	0.29	0.29	0.29	0.27	0.26	0.25	0.24	0.25	0.25			
170	0.25	0.24	0.26	0.27	0.27	0.28	0.28	0.27	0.30	0.30	0.27	0.27	0.27	0.27	0.24	0.26			
175	0.17	0.16	0.16	0.16	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19			
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			

C Range: 0 - 360DEG
C Interval: 22.5DEG
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