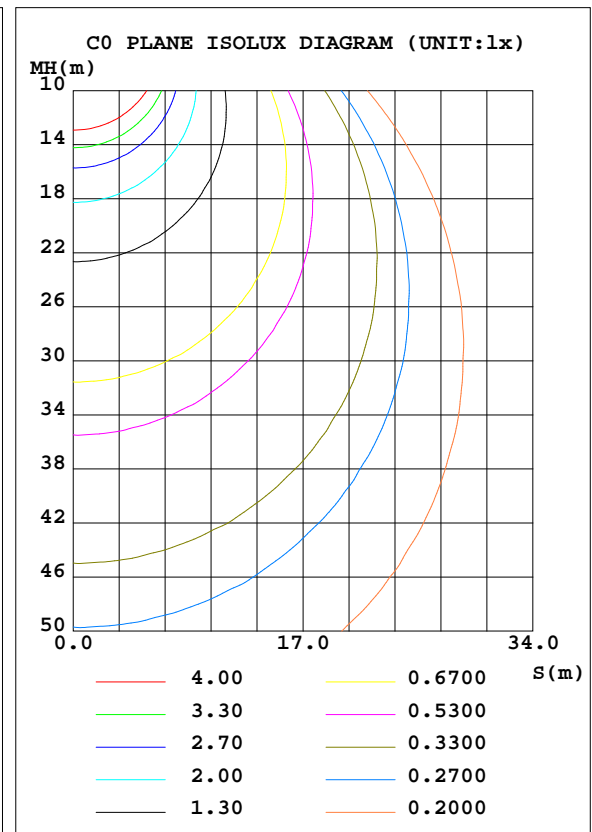
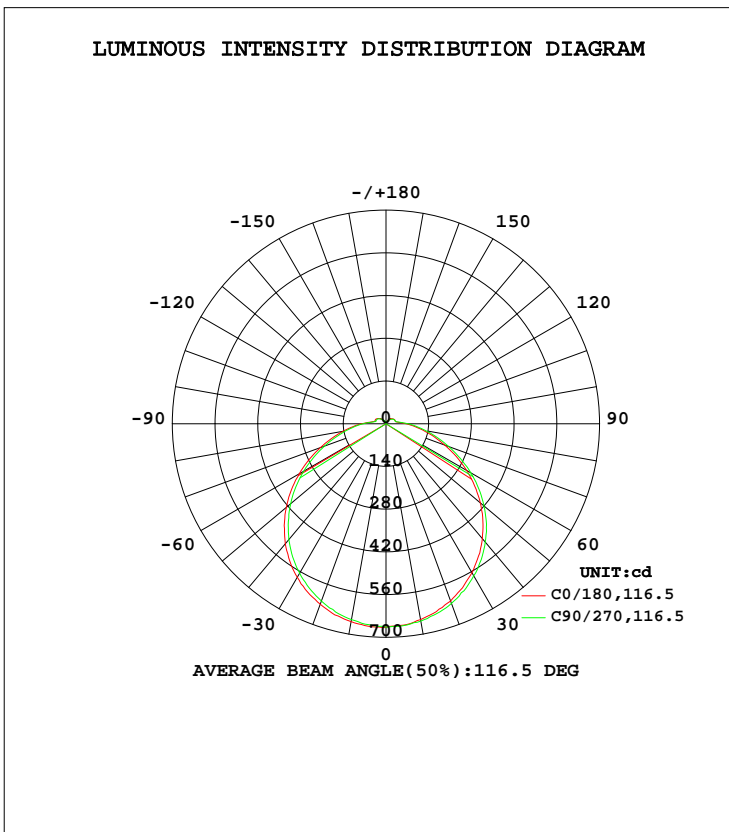


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.2111A P:24.94W PF:0.9841 Lamp Flux:1968x1 lm		
NAME: ASD-LFMDR-MV-16D24CC-NK 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 78,91 lm/W			
MODEL ASD-LFMDR-MV-16D24CC-NK		Imax(cd)	668.1	S/MH(C0/180)	1.26
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1968	$\eta$ UP, DN(C0-180)	4.1,45.9
NOMINAL FLUX(lm)	1968	CIE CLASS	DIRECT	$\eta$ UP, DN(C180-360)	4.0,46.0
LAMPS INSIDE	1	$\eta$ up(%)	8.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	$\eta$ down(%)	91.9	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.8DEG  
 Operators:Bomb  
 Test Date:2022-09-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:42%  
 Test Distance:2.532m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	658.4	656.4	652.0	653.2	651.7	654.8	656.7	659.3	0- 10	63.08	63.08	2.76,2.76
20	629.9	626.2	618.8	617.9	618.5	621.9	627.0	628.8	10- 20	181.3	244.4	10.7,10.7
30	581.2	575.3	566.0	562.8	563.8	570.2	575.6	581.9	20- 30	276.7	521.1	22.8,22.8
40	513.3	505.7	495.2	491.7	491.3	499.9	506.5	512.4	30- 40	337.3	858.4	37.6,37.6
50	426.0	418.4	407.9	404.8	403.6	412.1	419.6	425.6	40- 50	354.8	1213	53.2,53.2
60	328.2	322.0	311.6	306.4	304.6	313.2	320.4	326.2	50- 60	327.7	1541	67.5,67.5
70	229.1	223.5	214.5	208.1	205.3	211.9	218.8	225.5	60- 70	263.5	1804	79.1,79.1
80	143.1	139.8	132.8	126.2	123.3	128.1	132.5	138.4	70- 80	182.9	1987	87.1,87.1
90	80.02	79.09	74.76	68.88	66.40	69.78	72.33	76.64	80- 90	110.5	2098	91.9,91.9
100	42.08	41.94	39.72	36.57	35.93	37.05	37.42	40.04	90-100	58.48	2156	94.5,94.5
110	37.55	37.31	34.21	31.28	32.05	32.45	31.59	34.96	100-110	36.79	2193	96.1,96.1
120	33.78	33.52	31.68	29.24	30.08	30.13	29.13	31.78	110-120	32.62	2226	97.5,97.5
130	26.29	26.02	25.41	26.49	25.68	25.46	23.75	24.93	120-130	25.47	2251	98.6,98.6
140	16.94	17.11	18.01	18.17	21.41	19.49	17.20	17.86	130-140	16.89	2268	99.4,99.4
150	9.209	9.973	11.13	11.65	13.72	12.88	10.33	11.14	140-150	9.066	2277	99.8,99.8
160	4.982	4.991	6.210	6.083	6.443	6.654	6.781	6.198	150-160	3.960	2281	99.9,99.9
170	2.884	2.694	3.787	4.180	3.417	3.405	2.938	2.920	160-170	1.269	2282	100,100
180	0.9459	1.061	0.3659	0	1.117	1.113	1.106	1.102	170-180	0.2268	2283	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1036.4 lm

%lum = 45.4%

%lamp = 45.4%

Conical surface Flux(120deg): 1540.9 lm

%lum = 67.5%

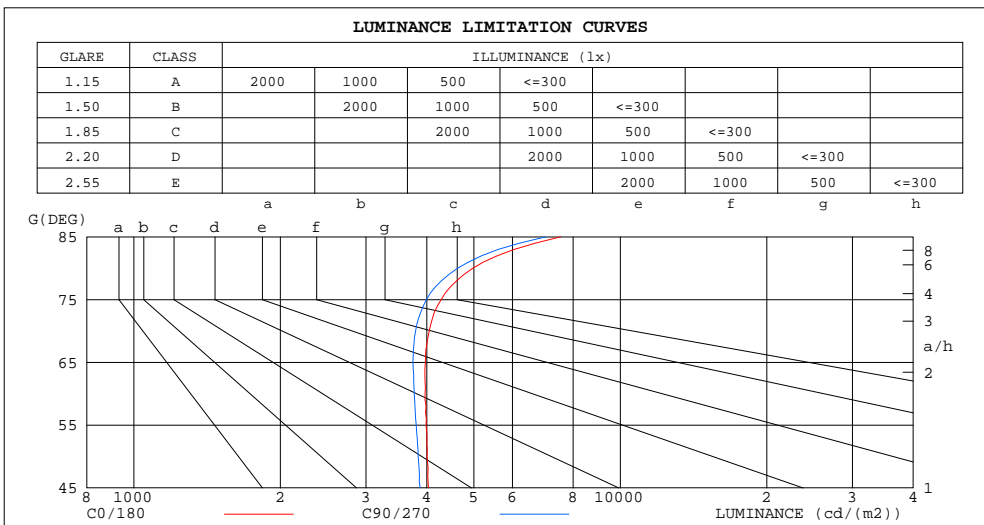
%lamp = 67.5%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.8DEG  
 Operators: Bomb  
 Test Date:2022-09-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:42%  
 Test Distance:2.532m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.2111A P:24.94W PF:0.9841 Lamp Flux:1968x1 lm		
NAME: ASD-LFMDR-MV-16D24CC-NK 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	7541	7025
80	4978	4628
75	4282	3996
70	4048	3795
65	3973	3746
60	3967	3770
55	3987	3807
50	4005	3839
45	4030	3876

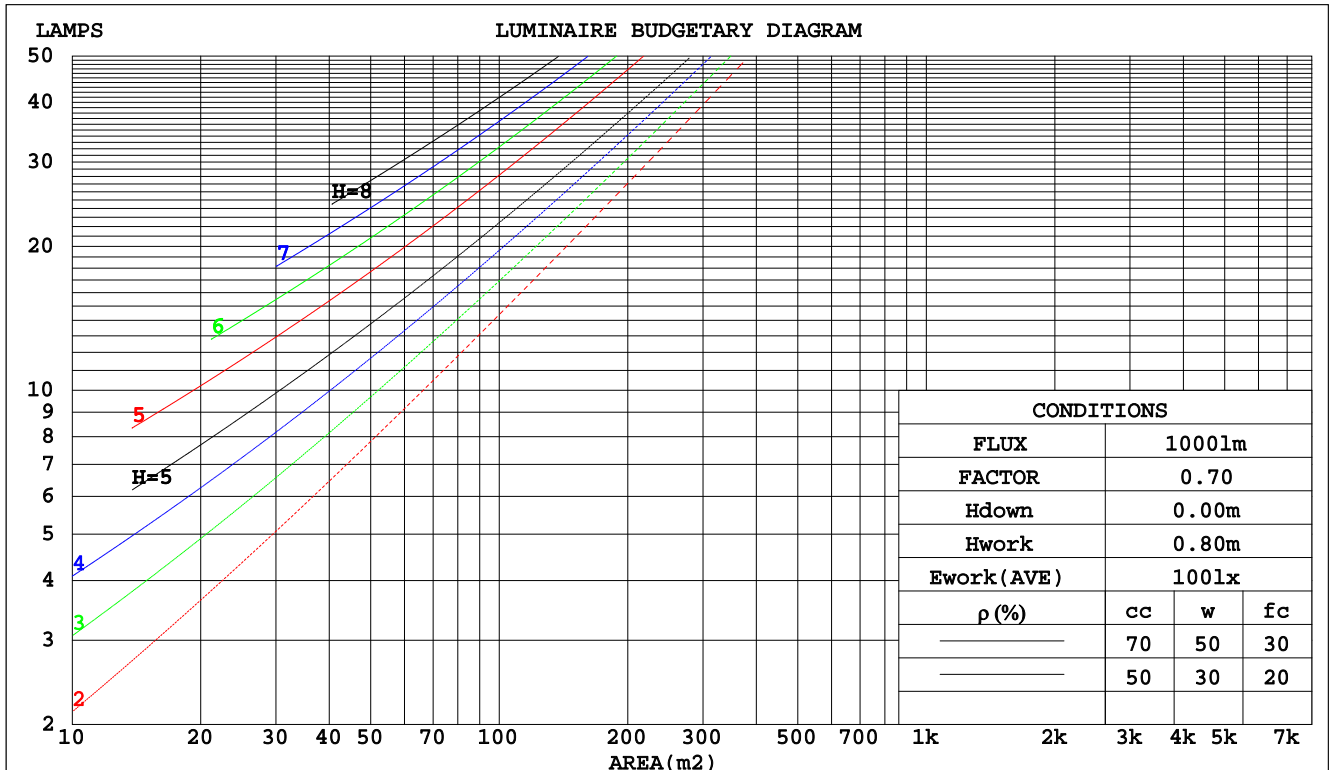
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.8DEG  
 Operators: Bomb  
 Test Date:2022-09-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:42%  
 Test Distance:2.532m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.2111A P:24.94W PF:0.9841 Lamp Flux:1968x1 lm		
NAME: ASD-LFMDR-MV-16D24CC-NK 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

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	1.17	1.17	1.17	1.13	1.13	1.13	1.07	1.07	1.07	1.00	1.00	1.00	.95	.95	.95	.92
1.0	1.00	.95	.91	.97	.93	.89	.91	.88	.84	.86	.83	.80	.81	.79	.76	.74
2.0	.86	.79	.73	.84	.77	.71	.79	.73	.69	.74	.70	.66	.70	.66	.63	.60
3.0	.76	.67	.60	.73	.65	.59	.69	.62	.57	.65	.60	.55	.62	.57	.53	.50
4.0	.67	.58	.51	.65	.56	.50	.61	.54	.48	.58	.52	.47	.55	.50	.45	.43
5.0	.59	.50	.43	.58	.49	.43	.55	.47	.41	.52	.45	.40	.49	.44	.39	.37
6.0	.53	.44	.38	.52	.43	.37	.49	.42	.36	.47	.40	.35	.45	.39	.34	.32
7.0	.48	.39	.33	.47	.39	.33	.45	.37	.32	.43	.36	.31	.41	.35	.30	.28
8.0	.44	.35	.29	.43	.35	.29	.41	.34	.28	.39	.33	.28	.37	.31	.27	.25
9.0	.40	.32	.26	.39	.31	.26	.38	.30	.26	.36	.30	.25	.34	.29	.24	.22
10.0	.37	.29	.24	.36	.29	.24	.35	.28	.23	.33	.27	.23	.32	.26	.22	.20



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.8DEG  
 Operators:Bomb  
 Test Date:2022-09-29

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:42%  
 Test Distance:2.532m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:120.0V I:0.2111A P:24.94W PF:0.9841 Lamp Flux:1968x1 lm		
NAME: ASD-LFMDR-MV-16D24CC-NK 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

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	.347	.197	.062	.337	.192	.061	.319	.183	.058	.303	.174	.056	.287	.166	.054	
2.0	.311	.171	.052	.303	.167	.051	.287	.159	.050	.272	.152	.048	.258	.146	.046	
3.0	.282	.150	.045	.274	.147	.044	.260	.141	.043	.246	.135	.041	.234	.130	.040	
4.0	.257	.134	.039	.250	.131	.039	.237	.126	.038	.225	.121	.036	.214	.116	.035	
5.0	.236	.120	.035	.229	.118	.034	.218	.113	.033	.207	.109	.032	.197	.105	.032	
6.0	.217	.109	.031	.212	.107	.031	.201	.103	.030	.191	.099	.029	.182	.096	.028	
7.0	.201	.100	.028	.196	.098	.028	.187	.094	.027	.178	.091	.027	.169	.088	.026	
8.0	.187	.092	.026	.183	.090	.025	.174	.087	.025	.166	.084	.024	.158	.081	.024	
9.0	.175	.085	.024	.171	.083	.023	.163	.081	.023	.156	.078	.022	.149	.075	.022	
10.0	.164	.079	.022	.161	.078	.022	.153	.075	.021	.146	.073	.021	.140	.070	.020	

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	.252	.252	.252	.216	.216	.216	.147	.147	.147	.084	.084	.084	.027	.027	.027	
1.0	.245	.218	.194	.210	.187	.167	.143	.129	.115	.083	.074	.067	.026	.024	.022	
2.0	.237	.194	.158	.203	.167	.137	.139	.116	.095	.080	.067	.056	.026	.022	.018	
3.0	.230	.177	.136	.197	.153	.118	.135	.106	.082	.078	.062	.049	.025	.020	.016	
4.0	.222	.164	.120	.190	.142	.105	.131	.099	.074	.076	.058	.044	.024	.019	.014	
5.0	.214	.154	.110	.184	.133	.096	.127	.093	.067	.073	.055	.040	.024	.018	.013	
6.0	.207	.146	.102	.178	.126	.089	.123	.089	.063	.071	.052	.037	.023	.017	.012	
7.0	.200	.139	.097	.172	.121	.084	.119	.085	.060	.069	.050	.036	.022	.016	.012	
8.0	.194	.134	.092	.167	.116	.081	.115	.081	.057	.067	.048	.034	.022	.016	.011	
9.0	.187	.129	.089	.161	.112	.078	.112	.079	.055	.065	.046	.033	.021	.015	.011	
10.0	.182	.124	.086	.157	.108	.075	.109	.076	.054	.063	.045	.032	.021	.015	.011	

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.8DEG  
 Operators: Bomb  
 Test Date:2022-09-29

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:42%  
 Test Distance:2.532m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.2111A P:24.94W PF:0.9841 Lamp Flux:1968x1 lm										
NAME: ASD-LFMDR-MV-16D24CC-NK 5000K					TYPE:N/A			WEIGHT:N/A		
SPEC.:N/A					DIM.: N/A			SERIAL No.:N/A		
MFR.: ASD Lighting corp					SUR.:N/A			Shielding Angle:N/A		
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	17.2	18.7	17.6	19.0	19.4	17.0	18.5	17.4	18.8	19.2
3H	19.0	20.3	19.4	20.7	21.1	18.8	20.1	19.2	20.5	20.9
4H	19.9	21.2	20.3	21.6	22.0	19.6	20.9	20.0	21.3	21.7
6H	20.8	22.0	21.2	22.4	22.8	20.4	21.6	20.9	22.0	22.5
8H	21.2	22.4	21.7	22.8	23.3	20.9	22.0	21.3	22.4	22.9
12H	21.7	22.8	22.2	23.3	23.7	21.3	22.5	21.8	22.9	23.4
4H 2H	17.8	19.1	18.3	19.5	19.9	17.7	19.0	18.1	19.3	19.8
3H	19.8	21.0	20.3	21.4	21.9	19.6	20.7	20.1	21.2	21.7
4H	20.9	21.9	21.4	22.4	22.9	20.6	21.7	21.1	22.1	22.6
6H	21.9	22.8	22.4	23.3	23.9	21.6	22.6	22.2	23.1	23.6
8H	22.5	23.3	23.0	23.8	24.4	22.2	23.0	22.7	23.5	24.1
12H	23.1	23.9	23.7	24.4	25.0	22.8	23.6	23.3	24.1	24.7
8H 4H	21.2	22.1	21.8	22.6	23.2	21.0	21.9	21.6	22.4	23.0
6H	22.6	23.3	23.1	23.8	24.4	22.3	23.0	22.9	23.6	24.2
8H	23.3	23.9	23.9	24.5	25.1	23.0	23.7	23.6	24.2	24.8
12H	24.1	24.7	24.7	25.2	25.9	23.8	24.4	24.4	24.9	25.6
12H 4H	21.3	22.1	21.9	22.6	23.2	21.1	21.9	21.7	22.4	23.0
6H	22.7	23.3	23.3	23.9	24.5	22.5	23.1	23.1	23.7	24.3
8H	23.5	24.1	24.1	24.7	25.3	23.3	23.8	23.9	24.4	25.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 2283 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.9)

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.8DEG  
 Operators: Bomb  
 Test Date:2022-09-29

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:42%  
 Test Distance:2.532m [K=1.0000]  
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.2111A P:24.94W PF:0.9841 Lamp Flux:1968x1 lm		
NAME: ASD-LFMDR-MV-16D24CC-NK 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

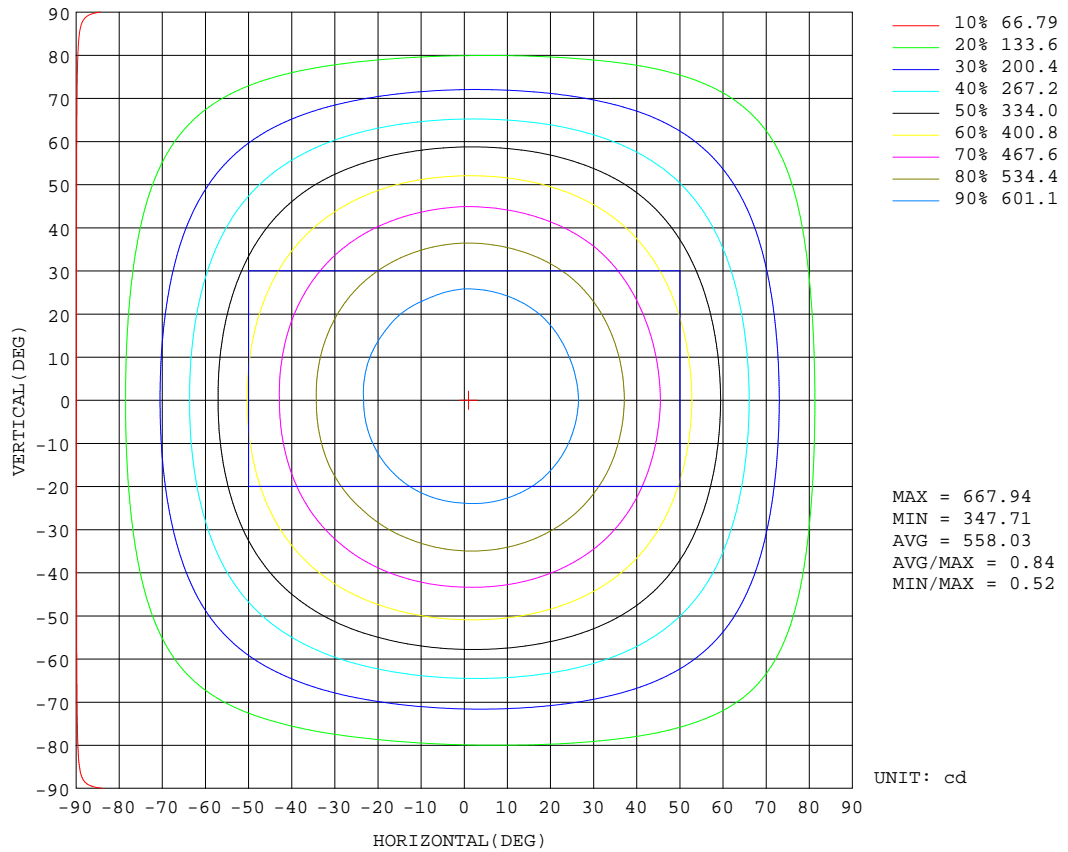
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	53	41	34	52	41	34	51	40	34	27
0.80	63	51	43	62	50	43	59	49	42	35
1.00	71	59	51	69	58	51	67	59	50	42
1.25	78	67	59	76	66	58	73	64	57	49
1.50	83	72	64	81	71	64	77	68	62	53
2.00	90	80	73	88	79	72	83	76	70	60
2.50	94	85	78	91	83	77	87	80	74	64
3.00	98	90	83	95	88	82	90	84	79	68
4.00	102	95	90	99	93	88	93	88	84	73
5.00	105	99	94	101	96	92	96	91	88	76
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:25.8DEG  
 Operators: Bomb  
 Test Date:2022-09-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:42%  
 Test Distance:2.532m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.2111A P:24.94W PF:0.9841 Lamp Flux:1968x1 lm		
NAME: ASD-LFMDR-MV-16D24CC-NK 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.8DEG  
 Operators: Bomb  
 Test Date:2022-09-29

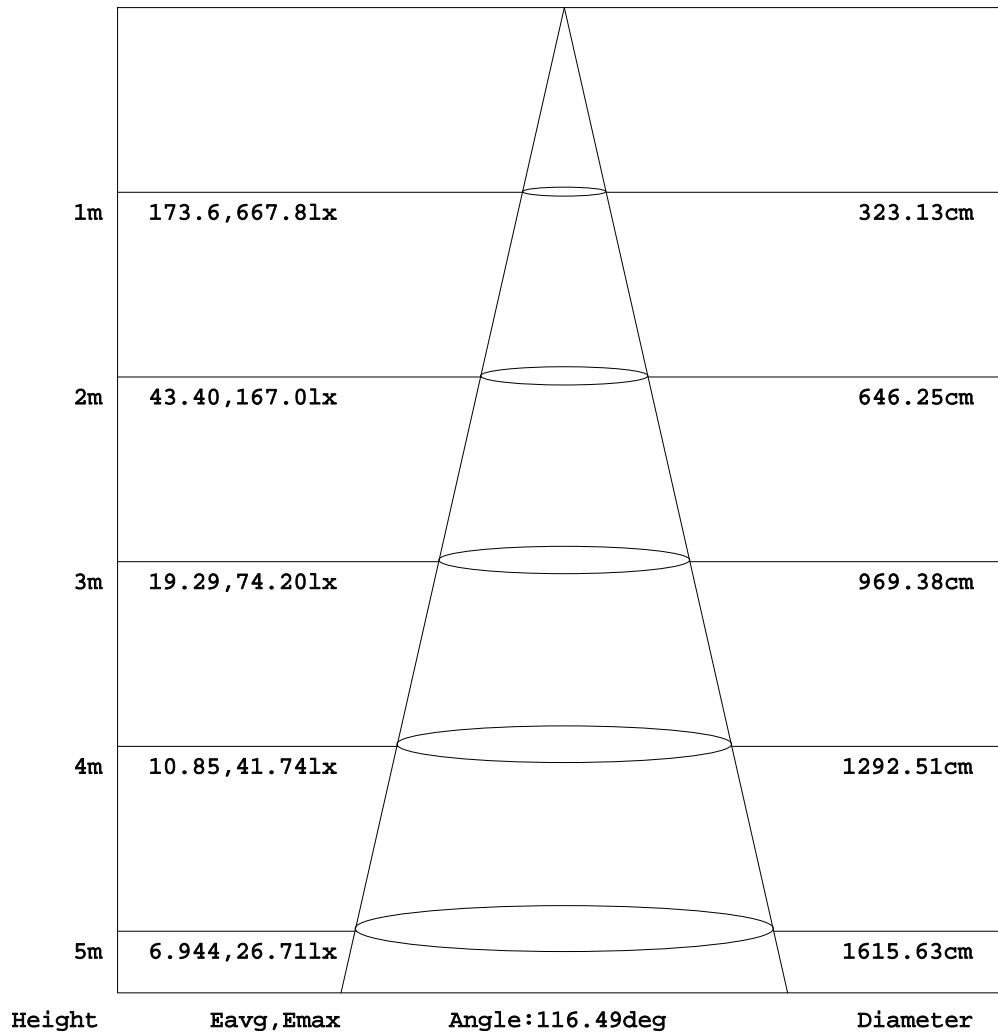
γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:42%  
 Test Distance:2.532m [K=1.0000]  
 Remarks:



AAI Figure

Test:U:120.0V I:0.2111A P:24.94W PF:0.9841 Lamp Flux:1968x1 lm		
NAME: ASD-LFMDR-MV-16D24CC-NK 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

Flux out:1511 lm



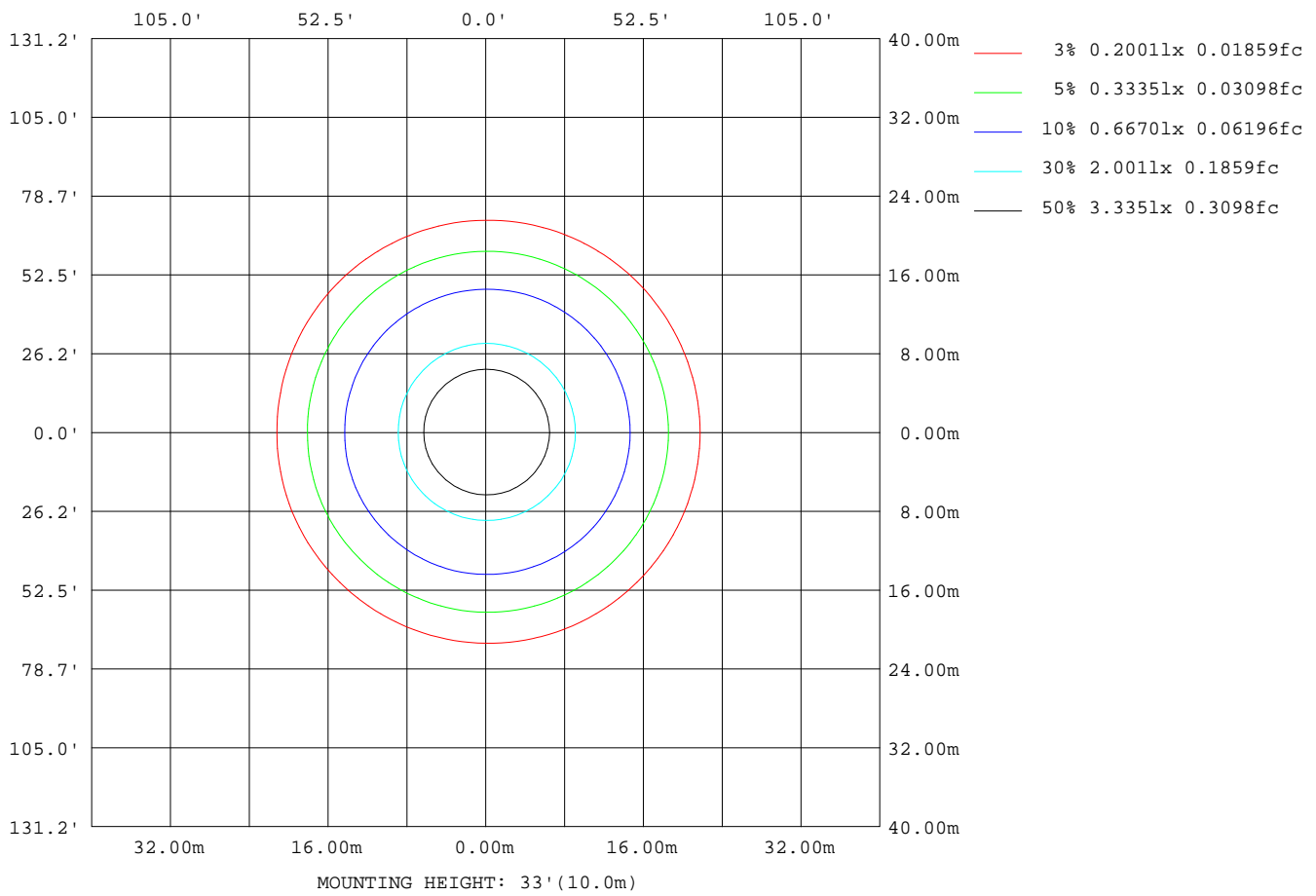
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.8DEG  
 Operators: Bomb  
 Test Date: 2022-09-29

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity: 42%  
 Test Distance: 2.532m [K=1.0000]  
 Remarks:

ISOLUX DIAGRAM

Test:U:120.0V I:0.2111A P:24.94W PF:0.9841 Lamp Flux:1968x1 lm		
NAME: ASD-LFMDR-MV-16D24CC-NK 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.8DEG  
 Operators:Bomb  
 Test Date:2022-09-29

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:42%  
 Test Distance:2.532m [K=1.0000]  
 Remarks:

## LED Avg.L Report

Test:U:120.0V I:0.2111A P:24.94W PF:0.9841 Lamp Flux:1968x1 lm		
NAME: ASD-LFMDR-MV-16D24CC-NK 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

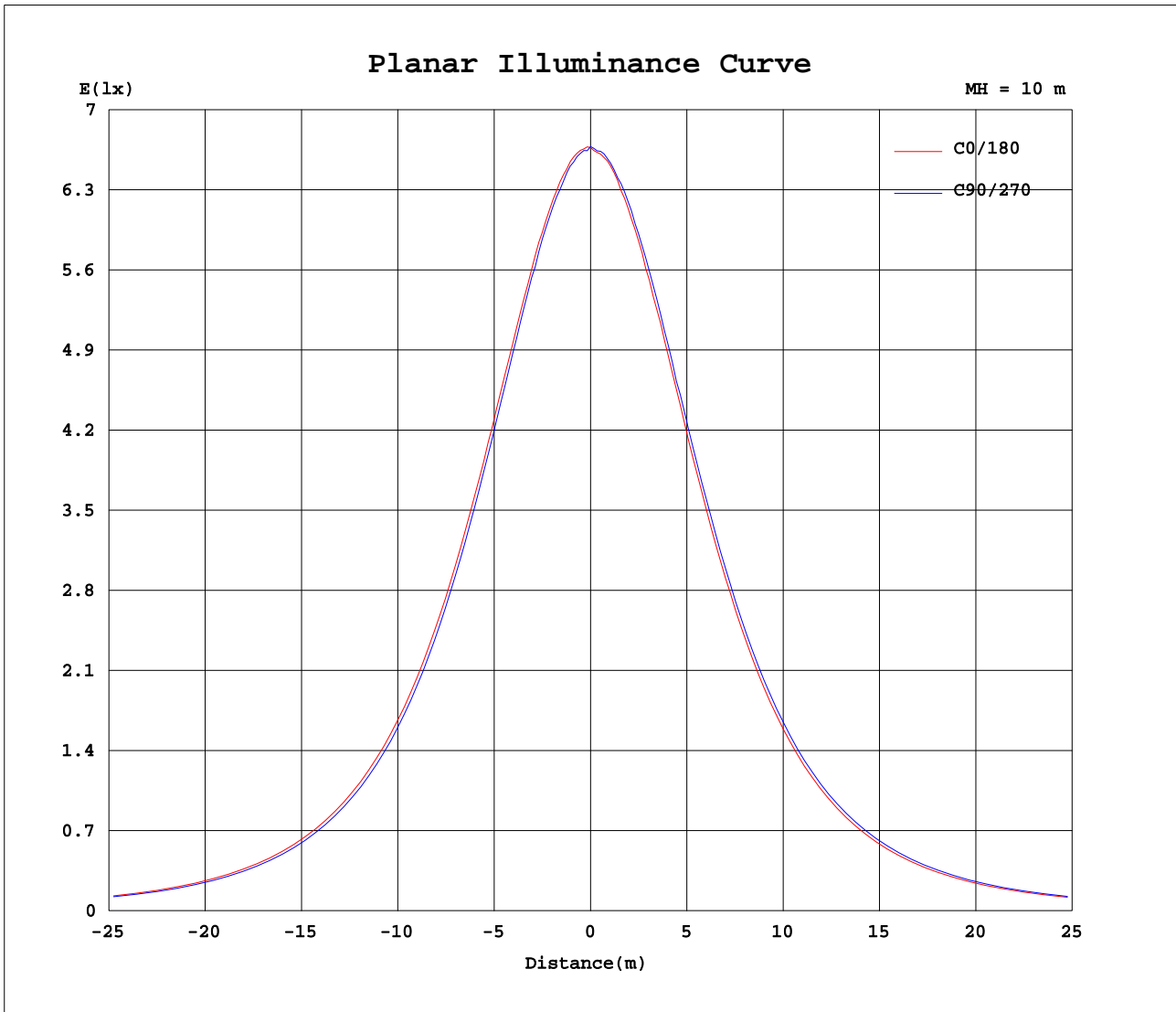
AvgL	cd/m2
L_0~180(65)av	3802
L_0~180(75)av	4030
L_0~180(85)av	6953
L_90~270(65)av	3791
L_90~270(75)av	4017
L_90~270(85)av	6961
L_45(65)av	3802
L_45(75)av	4025
L_45(85)av	6972

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.8DEG  
Operators:Bomb  
Test Date:2022-09-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
Humidity:42%  
Test Distance:2.532m [K=1.0000]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.8DEG  
 Operators: Bomb  
 Test Date: 2022-09-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity: 42%  
 Test Distance: 2.532m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.2111A P:24.94W PF:0.9841 Lamp Flux:1968x1 lm		
NAME: ASD-LFMDR-MV-16D24CC-NK 5000K	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.: N/A	SERIAL No.:N/A
MFR.: ASD Lighting corp	SUR.:N/A	Shielding Angle:N/A

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	667	667	667	667	667	667	667	667	667	667	667	667	667	667	667	667			
5	666	665	666	662	661	662	663	661	663	664	665	663	664	664	666	666			
10	658	658	656	655	652	652	653	653	652	654	655	656	657	659	659	658			
15	648	645	645	640	639	638	638	638	638	640	641	643	644	648	647	646			
20	630	629	626	622	619	619	618	615	619	621	622	624	627	629	629	630			
25	609	606	604	598	595	594	593	593	593	594	600	599	604	607	608	609			
30	581	578	575	570	566	565	563	563	564	567	570	573	576	578	582	581			
35	550	547	543	538	533	530	530	531	529	533	538	540	544	545	549	549			
40	513	509	506	499	495	492	492	491	491	496	500	503	507	510	512	510			
45	472	468	464	458	453	451	450	450	449	454	458	461	466	468	471	470			
50	426	423	418	413	408	405	405	405	404	408	412	417	420	423	426	423			
55	378	375	371	365	361	358	357	357	355	359	364	367	371	375	376	376			
60	328	326	322	316	312	308	306	306	305	308	313	317	320	324	326	326			
65	278	276	272	267	262	258	256	256	254	257	261	265	269	273	275	276			
70	229	226	223	219	215	211	208	207	205	208	212	216	219	222	226	226			
75	183	181	179	175	171	167	164	163	162	165	167	170	173	177	179	180			
80	143	142	140	136	133	129	126	125	123	125	128	130	133	135	138	139			
85	109	109	107	104	101	97.5	94.7	93.9	91.9	93.8	96.1	97.7	99.7	102	105	105			
90	80.0	79.8	79.1	77.1	74.8	72.0	68.9	67.8	66.4	67.9	69.8	70.9	72.3	74.4	76.6	77.3			
95	56.4	56.5	56.1	55.2	53.6	51.1	49.0	48.0	47.4	48.2	49.5	50.2	51.0	52.7	54.3	55.1			
100	42.1	41.9	41.9	40.7	39.7	38.3	36.6	36.1	35.9	35.9	37.0	37.1	37.4	39.0	40.0	40.8			
105	37.4	37.5	37.1	35.4	34.0	32.6	31.6	31.5	32.2	32.4	32.8	32.0	31.9	33.1	35.0	36.6			
110	37.6	37.5	37.3	35.6	34.2	32.5	31.3	31.3	32.1	32.2	32.4	31.7	31.6	32.9	35.0	36.6			
115	36.5	36.2	36.3	35.1	33.5	31.7	30.6	30.6	31.5	31.6	31.6	30.9	30.7	32.0	34.1	35.6			
120	33.8	33.5	33.5	32.7	31.7	30.3	29.2	29.4	30.1	30.3	30.1	29.4	29.1	30.2	31.8	32.4			
125	30.3	30.0	30.0	29.5	28.7	27.9	27.2	27.4	28.0	28.1	28.1	27.3	26.8	27.5	28.5	29.3			
130	26.3	25.6	26.0	25.8	25.4	24.8	26.5	24.8	25.7	25.6	25.5	24.4	23.7	24.0	24.9	25.5			
135	23.8	21.0	21.6	21.6	21.9	21.5	21.4	21.9	22.5	22.9	24.1	21.3	20.4	20.3	20.9	21.3			
140	16.9	16.1	17.1	17.1	18.0	19.6	18.2	19.1	21.4	19.8	19.5	18.3	17.2	18.0	17.9	16.8			
145	12.4	11.6	12.9	12.7	14.1	14.8	14.9	17.9	16.2	16.6	16.3	15.2	13.4	13.0	12.9	12.3			
150	9.21	8.60	9.97	10.2	11.1	12.6	11.6	12.7	13.7	13.2	12.9	12.0	10.3	10.2	11.1	8.96			
155	7.76	6.06	7.42	8.19	8.46	8.77	8.74	9.89	10.7	9.68	10.3	9.12	7.47	7.29	6.85	7.21			
160	4.98	4.27	4.99	5.92	6.21	6.88	6.08	7.03	6.44	6.47	6.65	6.54	6.78	5.25	6.20	4.61			
165	3.92	3.28	3.16	4.35	4.86	5.11	4.73	4.74	4.47	4.39	4.45	4.60	4.15	3.30	3.80	3.61			
170	2.88	2.75	2.69	3.41	3.79	3.66	4.18	3.42	3.42	3.41	3.41	3.33	2.94	1.58	2.92	2.95			
175	2.23	1.89	1.71	1.85	2.02	1.99	2.21	2.10	1.95	2.10	2.41	1.99	1.66	1.04	1.85	2.20			
180	0.95	1.05	1.06	0.50	0.37	0.20	0.00	0.00	1.12	1.11	1.11	1.11	1.11	1.10	1.10	1.10			

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