

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P527871

Luminaire Tested: **GALN-SA2D-830-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-830-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6834 lumens
Efficiency: N/A
Efficacy: 54.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

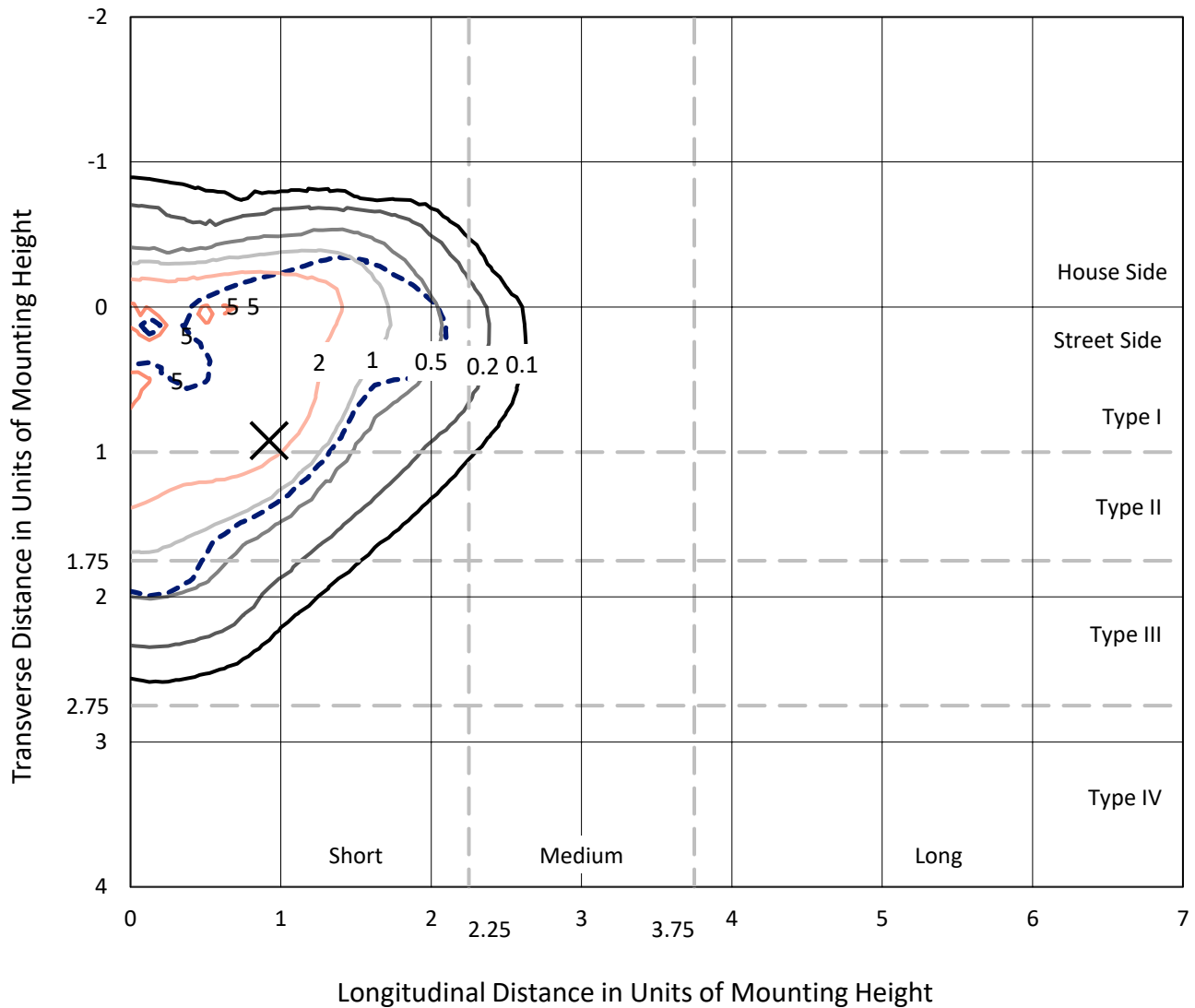


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

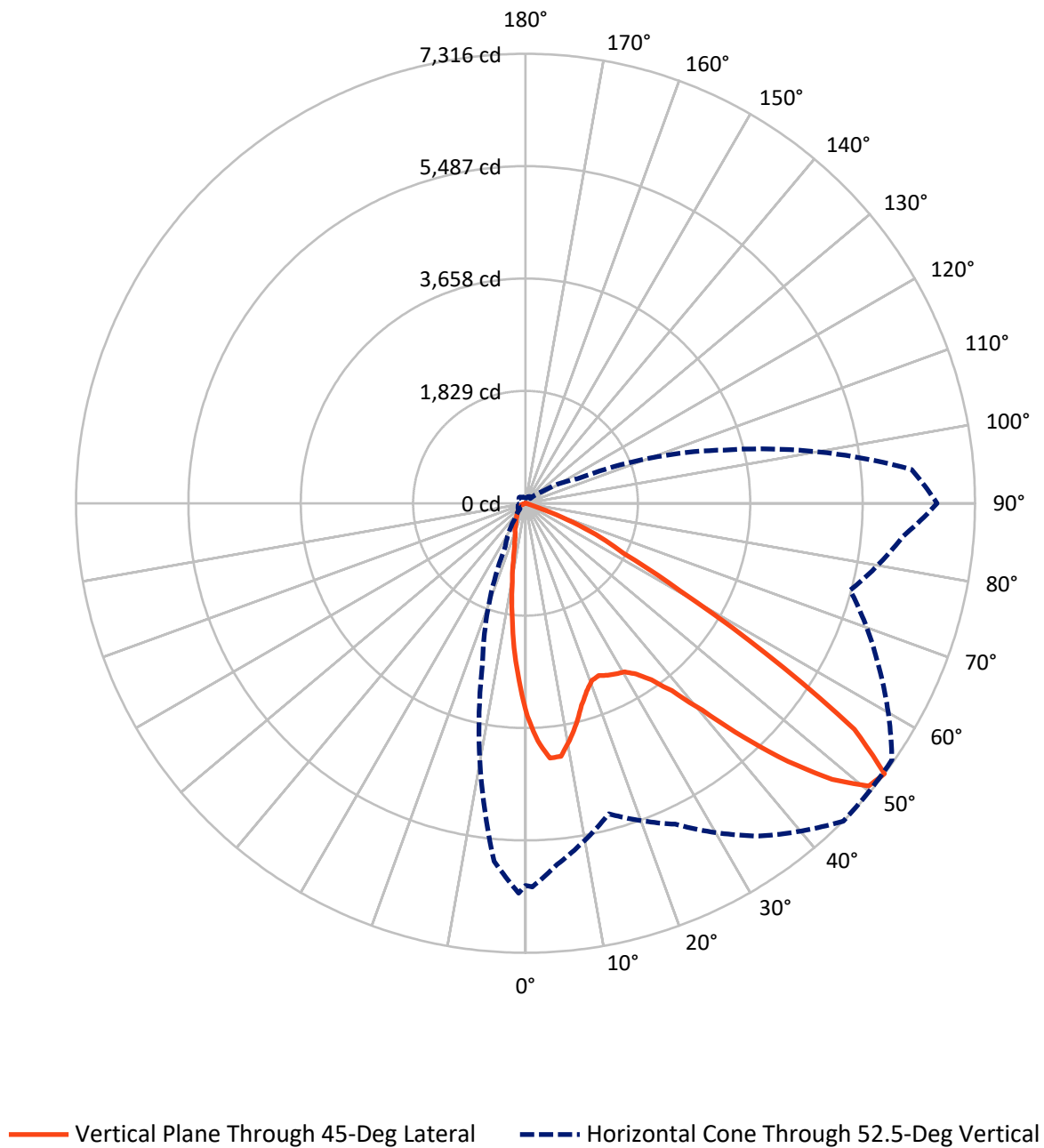


Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1387.0	0.0	1387.0
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	5447.0	0.0	5447.0
	% Fixture	79.7	0.0	79.7
Total	Lumens	6834.0	0.0	6834.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.7	3.7
10°-20°	498.6	7.3
20°-30°	758.8	11.1
30°-40°	1134.1	16.6
40°-50°	1615.0	23.6
50°-60°	1736.1	25.4
60°-70°	769.3	11.3
70°-80°	62.2	0.9
80°-90°	7.3	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6834.0	100.0
0°-180°	6834.0	100.0

Coefficient of Utilization



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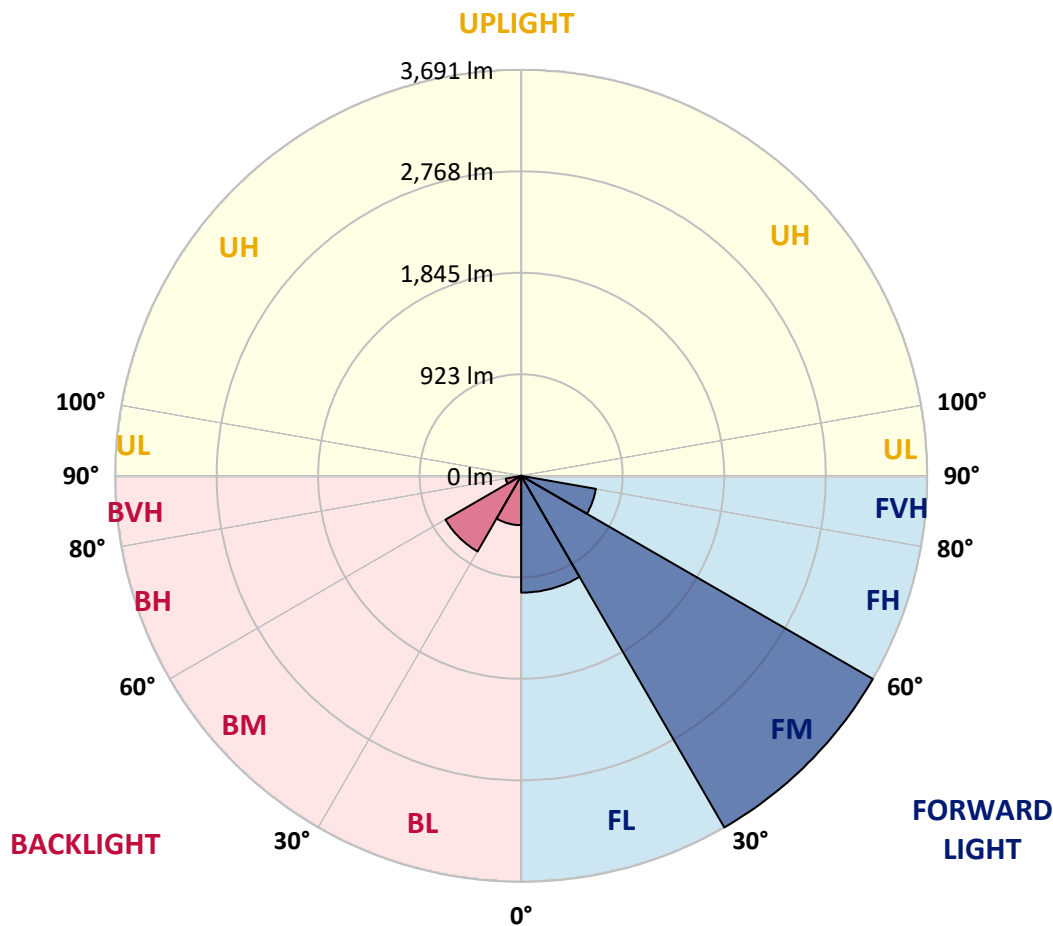
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1061.5	15.5			
FM	(30°-60°)	3690.6	54.0			
FH	(60°-80°)	689.6	10.1			G1/1800
FVH	(80°-90°)	5.4	0.1			G0/10
BL	(0°-30°)	448.6	6.6	B1/500		
BM	(30°-60°)	794.6	11.6	B1/1000		
BH	(60°-80°)	141.9	2.1	B1/500		G1/500
BVH	(80°-90°)	1.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3465.2	3465.2	3465.2	3465.2	3465.2	3465.2	3465.2	3465.2	3465.2	3465.2	3465.2
2.5°	3666.8	3677.5	3736.7	3810.6	3849.6	3938.3	3876.5	3892.6	3859.0	3740.7	3648.0
5°	3555.2	3553.9	3629.1	3811.9	3985.3	4161.4	4166.8	4072.7	3907.4	3725.9	3466.5
7.5°	3219.2	3271.6	3349.6	3641.2	3962.5	4094.2	4157.4	4047.2	3793.1	3533.7	3252.8
10°	2965.1	2992.0	3123.7	3475.9	3711.1	3887.2	3926.2	3863.0	3668.1	3344.2	3029.7
12.5°	2818.6	2832.1	2986.6	3282.4	3531.0	3661.4	3680.2	3709.8	3570.0	3266.2	2888.5
15°	2820.0	2830.7	3039.1	3286.4	3384.5	3349.6	3411.4	3410.0	3470.5	3251.4	3006.8
17.5°	3022.9	3035.0	3223.2	3345.5	3302.5	3220.5	3216.5	3278.3	3406.0	3435.6	3185.6
20°	3372.4	3400.6	3539.1	3532.4	3290.4	3125.1	3079.4	3126.4	3423.5	3591.5	3545.8
22.5°	3842.9	3881.8	3978.6	3793.1	3345.5	3060.6	3045.8	3137.2	3539.1	3939.6	3954.4
25°	4388.6	4454.4	4501.5	4263.6	3541.8	3172.1	3102.2	3259.5	3695.0	4317.3	4474.6
27.5°	4750.1	4818.7	4807.9	4467.9	3673.5	3201.7	3142.6	3289.1	3830.8	4407.4	4746.1
30°	5032.4	5074.1	5149.3	4578.1	3805.2	3285.0	3184.2	3414.1	3875.1	4563.3	5074.1
32.5°	5361.7	5389.9	5395.3	4773.0	4008.2	3389.9	3313.3	3570.0	4071.4	4712.5	5364.4
35°	5693.7	5735.4	5648.0	5013.6	4133.2	3584.8	3528.3	3840.2	4228.6	4867.1	5684.3
37.5°	6053.9	6075.4	5873.8	5113.1	4312.0	3902.0	3871.1	4131.8	4501.5	5146.7	6039.2
40°	6356.4	6376.5	6114.4	5235.4	4500.1	4345.6	4424.9	4688.3	4872.5	5328.1	6216.6
42.5°	6524.4	6571.4	6195.1	5168.2	4877.8	4848.3	5200.4	5293.2	5302.6	5379.2	6375.2
45°	6570.1	6548.6	6062.0	5223.3	5208.5	5674.9	5994.8	6117.1	5730.0	5473.3	6415.5
47.5°	6359.1	6387.3	5865.8	5174.9	5642.6	6301.3	6715.3	6942.4	6048.6	5391.3	6316.0
50°	6188.4	6152.1	5802.6	5139.9	5759.6	6597.0	7235.4	7286.5	6341.6	5492.1	6207.2
52.5°	6222.0	6244.8	5903.4	5232.7	5762.3	6614.4	7316.1	7281.1	6351.0	5469.2	6168.2
55°	6293.2	6192.4	5860.4	5028.4	5376.5	6126.5	6493.5	6439.7	5861.7	5226.0	6072.8
57.5°	5430.3	5586.2	5388.6	4489.4	4412.8	4615.7	4609.0	4774.3	4372.4	4497.4	5528.4
60°	4407.4	4434.3	4508.2	3840.2	3053.9	2984.0	2887.2	2782.3	2942.3	3845.5	5028.4
62.5°	3876.5	3844.2	4107.6	3493.4	2156.0	1805.2	1789.0	1853.5	2270.2	3668.1	4716.5
65°	2817.3	2857.6	3048.5	2711.1	1618.3	1377.7	1353.5	1544.4	1837.4	2939.6	3599.6
67.5°	1720.5	1798.4	1815.9	1672.1	1098.2	872.3	837.4	1010.8	1326.7	1901.9	2110.3
70°	794.4	888.5	977.2	912.7	635.8	358.9	338.7	424.7	669.4	1094.1	1119.7
72.5°	240.6	241.9	338.7	353.5	205.7	80.6	71.2	94.1	227.2	361.6	380.4
75°	17.5	18.8	45.7	52.4	39.0	20.2	21.5	25.5	48.4	80.6	60.5
77.5°	1.3	1.3	1.3	6.7	12.1	13.4	17.5	20.2	25.5	29.6	26.9
80°	1.3	0.0	1.3	5.4	9.4	13.4	16.1	18.8	20.2	22.9	20.2
82.5°	0.0	0.0	0.0	4.0	9.4	13.4	14.8	20.2	22.9	26.9	22.9
85°	0.0	0.0	0.0	4.0	9.4	14.8	13.4	6.7	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3465.2	3465.2	3465.2	3465.2	3465.2	3465.2	3465.2	3465.2	3465.2	3465.2	3465.2
2.5°	3664.1	3611.7	3492.0	3431.6	3289.1	3268.9	3129.1	3106.3	3059.2	3033.7	2971.9
5°	3352.2	3289.1	3094.2	2930.2	2739.3	2606.3	2504.1	2411.4	2357.6	2307.9	2330.7
7.5°	3098.2	2914.1	2697.7	2423.5	2203.0	2060.5	1904.6	1776.9	1701.7	1650.6	1662.7
10°	2832.1	2712.4	2411.4	2103.6	1837.4	1736.6	1614.3	1516.2	1410.0	1318.6	1275.6
12.5°	2748.7	2571.3	2193.6	1880.4	1678.8	1580.7	1440.9	1328.0	1192.2	1080.7	1041.7
15°	2763.5	2592.8	2134.5	1799.8	1561.9	1392.5	1225.8	1086.1	936.9	858.9	818.6
17.5°	3004.1	2708.4	2173.5	1715.1	1399.2	1164.0	958.4	780.9	669.4	588.7	571.3
20°	3299.8	2958.4	2256.8	1653.3	1266.2	926.1	700.3	547.1	454.3	440.9	436.8
22.5°	3732.6	3367.0	2435.6	1611.6	1103.5	721.8	479.9	397.9	372.3	369.6	371.0
25°	4337.5	3879.1	2630.5	1576.7	981.2	556.5	392.5	337.4	329.3	325.3	332.0
27.5°	4599.6	4188.3	2734.0	1501.4	869.6	501.4	387.1	334.7	311.8	305.1	309.1
30°	4923.5	4393.9	2896.6	1372.4	705.7	412.6	361.6	364.3	353.5	319.9	309.1
32.5°	5353.7	4650.7	2978.6	1281.0	630.4	341.4	264.8	243.3	271.5	276.9	286.3
35°	5629.2	4911.4	3020.3	1227.2	591.4	291.7	224.5	204.3	197.6	198.9	204.3
37.5°	6141.3	5263.6	3072.7	1170.7	561.8	254.0	203.0	184.1	174.7	174.7	180.1
40°	6447.8	5543.2	3143.9	1139.8	532.3	231.2	184.1	168.0	160.0	160.0	162.6
42.5°	6524.4	5681.6	3119.7	1129.1	498.7	225.8	168.0	155.9	146.5	145.2	143.8
45°	6661.5	5892.6	3123.7	1117.0	463.7	205.7	158.6	145.2	131.7	130.4	129.0
47.5°	6812.0	6044.5	3131.8	1069.9	430.1	172.0	165.3	134.4	118.3	115.6	115.6
50°	6683.0	6165.5	3201.7	1022.9	387.1	139.8	162.6	126.3	104.8	100.8	102.2
52.5°	6699.1	6308.0	3349.6	957.0	333.3	111.6	131.7	119.6	95.4	88.7	90.1
55°	6441.0	6157.4	3369.7	887.1	260.8	86.0	100.8	104.8	80.6	78.0	78.0
57.5°	5544.5	5213.9	2973.2	719.1	172.0	71.2	72.6	91.4	69.9	67.2	68.6
60°	4744.8	4185.6	2392.5	474.5	107.5	56.5	52.4	92.7	61.8	60.5	64.5
62.5°	4325.4	3439.6	1814.6	294.4	73.9	43.0	36.3	75.3	53.8	53.8	59.1
65°	3125.1	2310.6	1055.1	154.6	52.4	33.6	26.9	43.0	44.4	45.7	48.4
67.5°	1935.5	1166.7	444.9	75.3	34.9	22.9	17.5	26.9	29.6	29.6	32.3
70°	955.7	465.1	147.9	43.0	26.9	18.8	12.1	14.8	14.8	13.4	14.8
72.5°	295.7	139.8	37.6	26.9	18.8	12.1	6.7	5.4	2.7	0.0	1.3
75°	33.6	26.9	24.2	18.8	12.1	5.4	1.3	0.0	0.0	0.0	0.0
77.5°	20.2	22.9	22.9	18.8	12.1	4.0	0.0	0.0	0.0	0.0	0.0
80°	16.1	17.5	18.8	17.5	10.8	5.4	0.0	0.0	0.0	0.0	0.0
82.5°	20.2	22.9	25.5	22.9	14.8	6.7	2.7	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	4.0	1.3	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3465.2	3465.2	3465.2	3465.2	3465.2	3465.2	3465.2	3465.2	3465.2	3465.2	3465.2
2.5°	2946.3	2916.8	2958.4	2896.6	2895.2	2896.6	2879.1	2863.0	2888.5	2957.1	2963.8
5°	2248.7	2311.9	2332.1	2397.9	2361.6	2307.9	2318.6	2282.3	2371.0	2410.0	2379.1
7.5°	1637.1	1633.1	1768.9	1776.9	1794.4	1795.8	1793.1	1721.8	1649.2	1665.4	1713.8
10°	1270.2	1201.6	1267.5	1260.8	1303.8	1291.7	1309.2	1232.6	1258.1	1258.1	1289.0
12.5°	1035.0	962.4	950.3	932.8	950.3	957.0	963.7	949.0	992.0	1012.1	1033.6
15°	790.3	750.0	739.3	705.7	711.0	729.9	746.0	752.7	739.3	770.2	772.9
17.5°	573.9	572.6	579.3	578.0	572.6	568.6	567.2	549.7	544.4	547.1	557.8
20°	435.5	446.2	469.1	491.9	504.0	489.3	469.1	439.5	427.4	430.1	431.5
22.5°	372.3	388.5	419.4	444.9	457.0	430.1	393.8	368.3	362.9	361.6	360.2
25°	337.4	356.2	379.0	387.1	385.8	369.6	342.8	332.0	329.3	326.6	314.5
27.5°	318.6	325.3	329.3	338.7	342.8	332.0	325.3	309.1	306.5	306.5	298.4
30°	307.8	303.8	309.1	302.4	307.8	299.7	301.1	301.1	294.4	297.1	297.1
32.5°	286.3	287.6	287.6	274.2	278.2	268.8	278.2	286.3	287.6	289.0	299.7
35°	209.7	233.9	246.0	246.0	250.0	243.3	241.9	232.5	220.4	208.3	203.0
37.5°	184.1	193.6	209.7	219.1	225.8	220.4	208.3	193.6	186.8	181.5	176.1
40°	164.0	172.0	182.8	193.6	207.0	200.3	181.5	174.7	166.7	166.7	161.3
42.5°	147.9	151.9	158.6	174.7	189.5	176.1	162.6	157.3	153.2	151.9	150.5
45°	133.1	134.4	141.1	154.6	172.0	158.6	145.2	138.4	139.8	141.1	139.8
47.5°	119.6	122.3	126.3	142.5	153.2	146.5	131.7	127.7	127.7	127.7	129.0
50°	103.5	110.2	118.3	131.7	139.8	135.8	123.7	118.3	115.6	115.6	116.9
52.5°	92.7	98.1	108.9	125.0	135.8	129.0	116.9	108.9	103.5	102.2	104.8
55°	80.6	90.1	107.5	119.6	134.4	127.7	114.3	104.8	95.4	94.1	94.1
57.5°	72.6	87.4	103.5	118.3	130.4	125.0	114.3	102.2	90.1	88.7	88.7
60°	68.6	84.7	100.8	114.3	130.4	122.3	112.9	99.5	86.0	86.0	84.7
62.5°	64.5	79.3	95.4	108.9	125.0	118.3	108.9	95.4	82.0	82.0	79.3
65°	53.8	68.6	79.3	91.4	108.9	102.2	92.7	83.3	72.6	69.9	71.2
67.5°	37.6	47.0	57.8	69.9	80.6	78.0	73.9	67.2	57.8	56.5	55.1
70°	18.8	25.5	34.9	47.0	56.5	53.8	51.1	45.7	40.3	39.0	39.0
72.5°	2.7	8.1	14.8	21.5	29.6	30.9	29.6	28.2	26.9	25.5	26.9
75°	0.0	0.0	0.0	5.4	12.1	14.8	17.5	20.2	20.2	17.5	21.5
77.5°	0.0	0.0	0.0	0.0	1.3	6.7	13.4	17.5	21.5	18.8	25.5
80°	0.0	0.0	0.0	0.0	1.3	8.1	13.4	18.8	21.5	18.8	26.9
82.5°	0.0	0.0	0.0	0.0	1.3	9.4	13.4	17.5	20.2	18.8	24.2
85°	0.0	0.0	0.0	0.0	4.0	8.1	5.4	2.7	1.3	1.3	4.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3465.2	3465.2	3465.2	3465.2	3465.2	3465.2	3465.2	3465.2	3465.2	3465.2
2.5°	3001.4	3096.9	3199.0	3238.0	3359.0	3450.4	3512.2	3645.3	3665.4	3666.8
5°	2411.4	2459.7	2634.5	2716.5	2896.6	3036.4	3185.6	3400.6	3544.5	3555.2
7.5°	1713.8	1848.2	1922.1	2135.8	2357.6	2576.7	2798.5	3048.5	3215.1	3219.2
10°	1379.1	1466.4	1598.2	1758.1	1944.9	2168.1	2463.8	2754.1	2923.5	2965.1
12.5°	1110.2	1263.5	1414.0	1579.3	1721.8	1889.8	2208.4	2595.5	2735.3	2818.6
15°	854.9	994.7	1172.1	1365.6	1526.9	1751.4	2114.3	2556.5	2791.7	2820.0
17.5°	630.4	755.4	919.4	1102.2	1344.1	1662.7	2130.4	2754.1	2975.9	3022.9
20°	453.0	525.6	654.6	867.0	1174.8	1559.2	2146.6	2954.4	3291.8	3372.4
22.5°	358.9	388.5	473.1	661.3	985.2	1450.3	2260.8	3337.5	3725.9	3842.9
25°	311.8	328.0	368.3	521.5	865.6	1439.6	2443.6	3797.2	4303.9	4388.6
27.5°	301.1	303.8	338.7	478.5	801.1	1368.3	2513.5	4123.8	4664.1	4750.1
30°	317.2	360.2	362.9	404.6	681.5	1227.2	2549.8	4439.6	4969.2	5032.4
32.5°	274.2	260.8	270.2	313.2	599.5	1145.2	2618.4	4715.2	5317.4	5361.7
35°	190.9	200.3	221.8	271.5	524.2	1059.2	2635.8	5019.0	5648.0	5693.7
37.5°	176.1	181.5	198.9	231.2	461.0	1010.8	2611.6	5240.7	5990.8	6053.9
40°	164.0	170.7	180.1	209.7	414.0	957.0	2578.0	5441.0	6200.5	6356.4
42.5°	154.6	160.0	168.0	200.3	373.7	903.3	2531.0	5723.3	6388.6	6524.4
45°	143.8	151.9	161.3	194.9	350.8	867.0	2496.0	5705.8	6497.5	6570.1
47.5°	133.1	146.5	157.3	181.5	344.1	849.5	2510.8	5640.0	6408.8	6359.1
50°	122.3	139.8	158.6	150.5	328.0	814.5	2528.3	5730.0	6197.8	6188.4
52.5°	112.9	133.1	147.9	123.7	291.7	780.9	2697.7	5848.3	6347.0	6222.0
55°	99.5	119.6	118.3	99.5	236.6	755.4	2830.7	5851.0	6246.2	6293.2
57.5°	90.1	106.2	92.7	83.3	174.7	631.7	2614.3	4906.1	5346.9	5430.3
60°	83.3	103.5	69.9	65.9	114.3	455.7	2282.3	3799.8	4250.1	4407.4
62.5°	76.6	98.1	55.1	53.8	79.3	323.9	1876.4	3180.2	3662.7	3876.5
65°	67.2	69.9	44.4	41.7	56.5	174.7	1142.5	2189.6	2738.0	2817.3
67.5°	55.1	53.8	36.3	33.6	37.6	84.7	504.0	1096.8	1587.4	1720.5
70°	44.4	44.4	30.9	26.9	26.9	39.0	131.7	436.8	717.8	794.4
72.5°	32.3	33.6	24.2	21.5	20.2	18.8	21.5	87.4	188.2	240.6
75°	28.2	29.6	24.2	18.8	14.8	12.1	9.4	8.1	10.8	17.5
77.5°	30.9	30.9	25.5	17.5	13.4	9.4	5.4	2.7	2.7	1.3
80°	39.0	40.3	33.6	22.9	16.1	10.8	6.7	2.7	1.3	1.3
82.5°	41.7	45.7	37.6	28.2	20.2	12.1	6.7	1.3	0.0	0.0
85°	10.8	17.5	29.6	25.5	20.2	12.1	6.7	1.3	0.0	0.0
87.5°	0.0	1.3	4.0	4.0	5.4	5.4	4.0	1.3	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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