

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: P527169

Luminaire Tested: **GALN-SA2A-830-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527169
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-SA2A-830-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA 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: 4040 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

Input Watts (W): 63
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



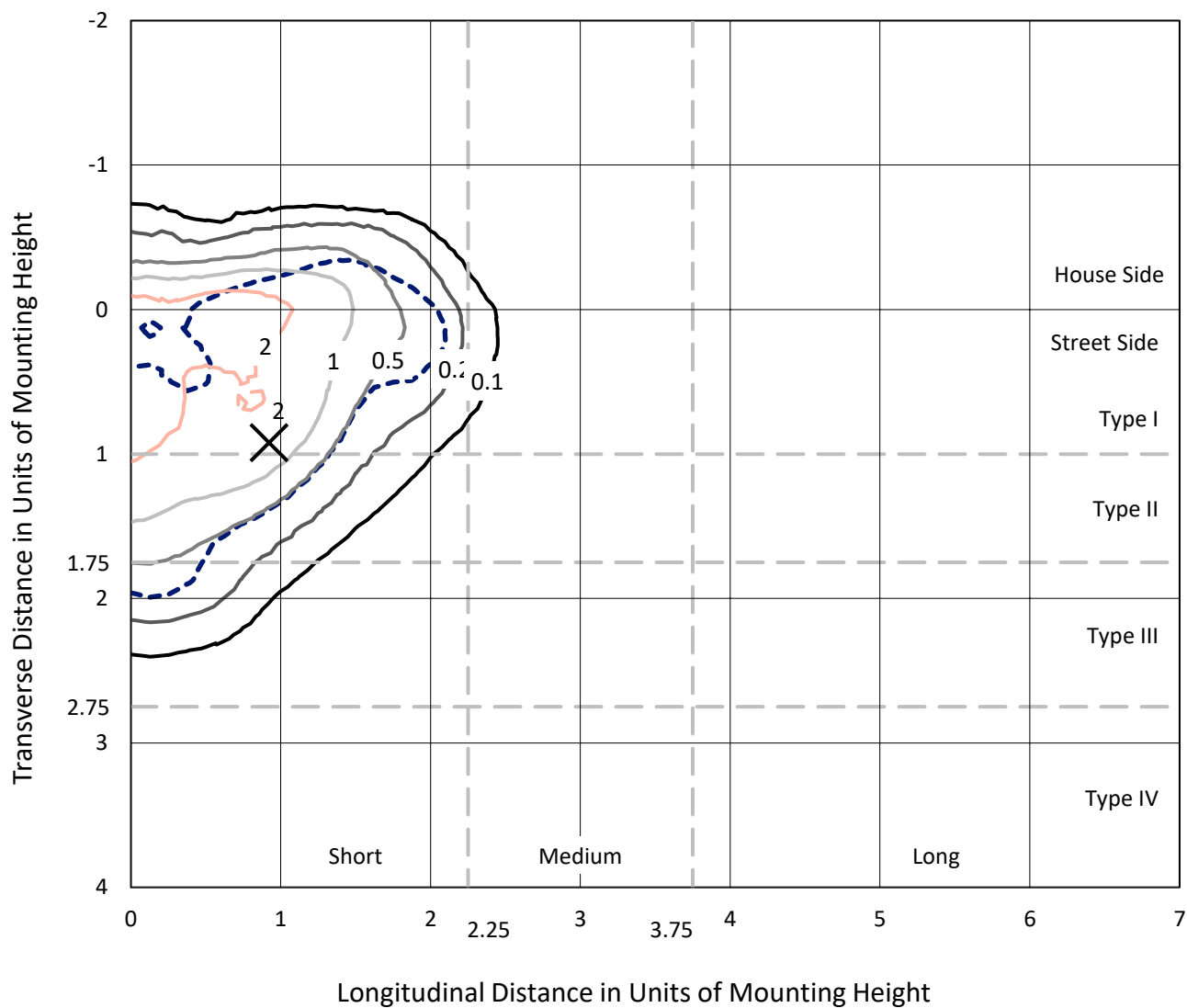
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

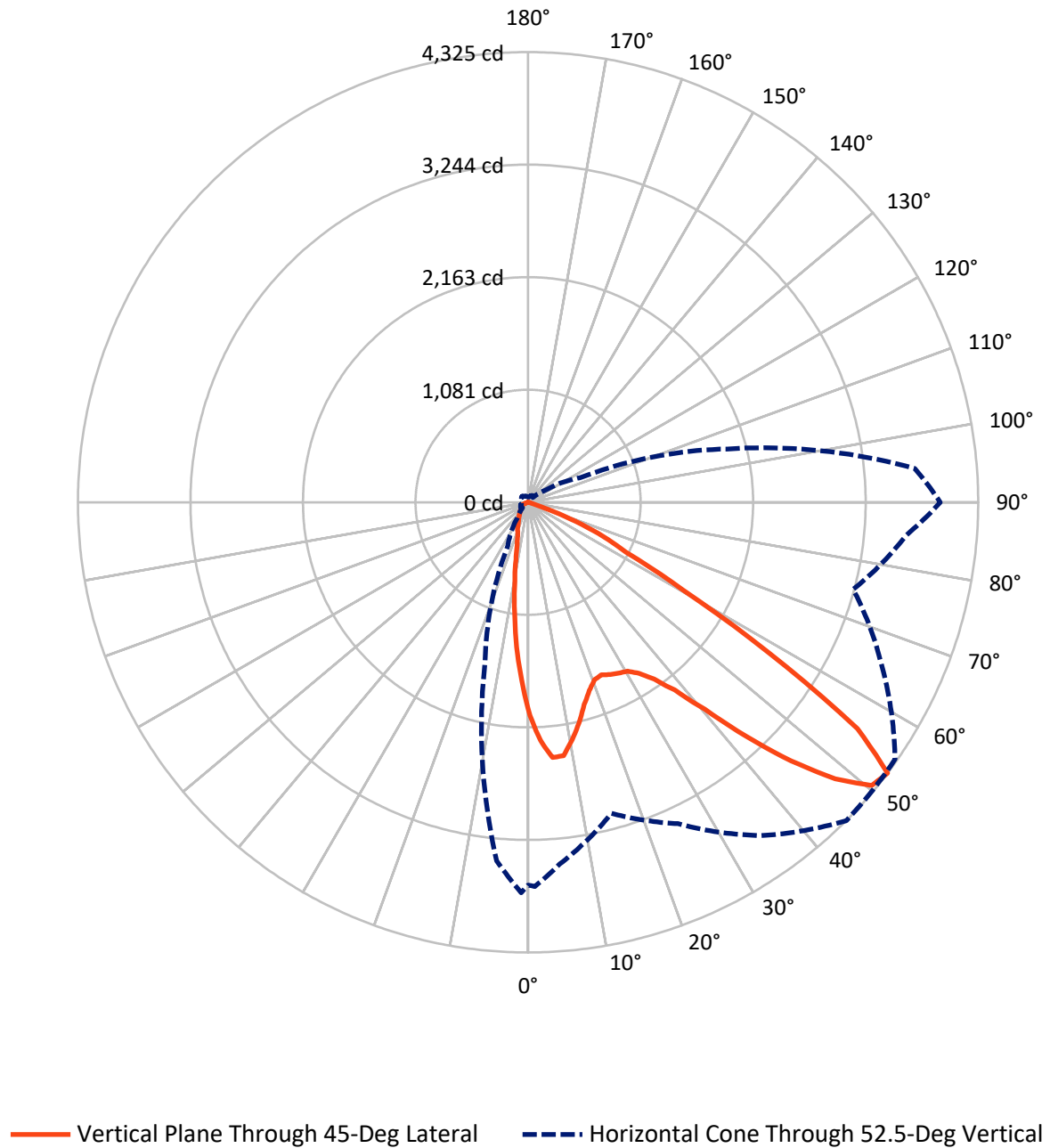
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	819.9	0.0	819.9
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	3220.1	0.0	3220.1
	% Fixture	79.7	0.0	79.7
Total	Lumens	4040.0	0.0	4040.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.4	3.7
10°-20°	294.7	7.3
20°-30°	448.6	11.1
30°-40°	670.4	16.6
40°-50°	954.7	23.6
50°-60°	1026.3	25.4
60°-70°	454.8	11.3
70°-80°	36.8	0.9
80°-90°	4.3	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°	4040.0	100.0
0°-180°	4040.0	100.0

Coefficient of Utilization



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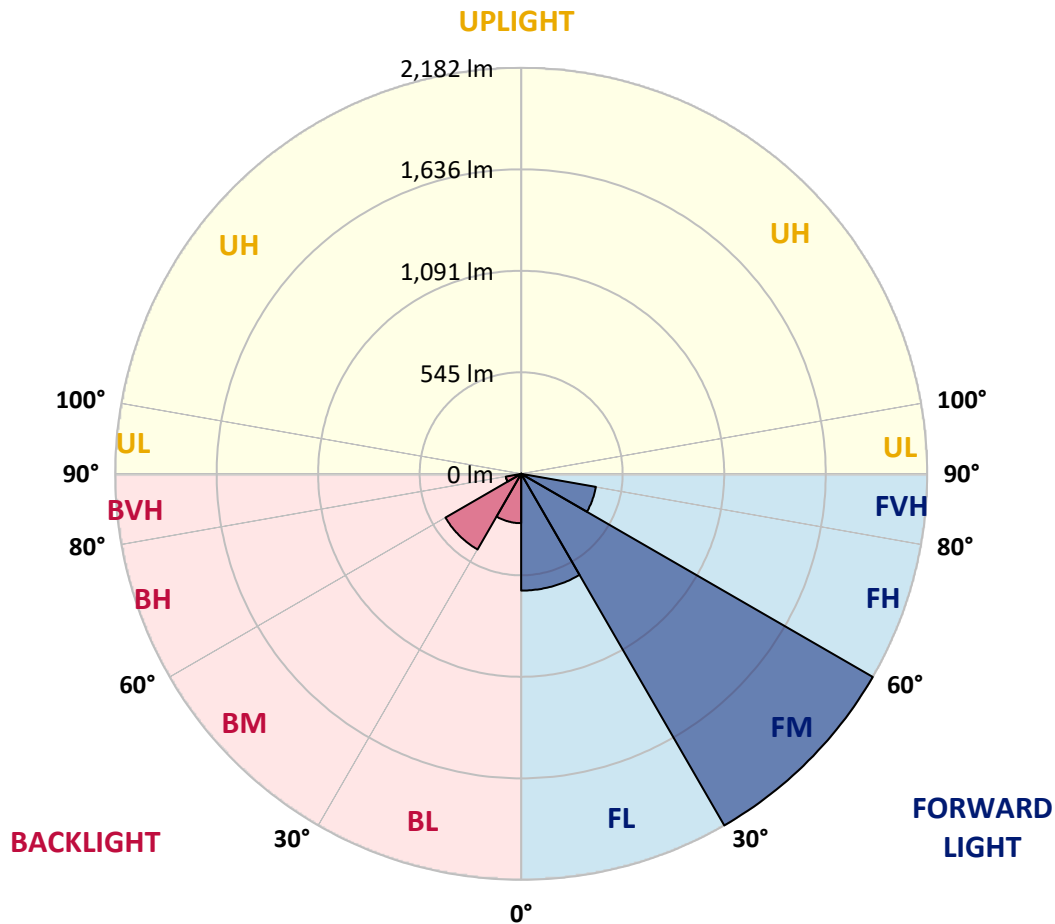
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	627.5	15.5			
FM	(30°-60°)	2181.7	54.0			
FH	(60°-80°)	407.7	10.1			G0/660
FVH	(80°-90°)	3.2	0.1			G0/10
BL	(0°-30°)	265.2	6.6	B1/500		
BM	(30°-60°)	469.7	11.6	B1/1000		
BH	(60°-80°)	83.9	2.1	B0/110		G0/110
BVH	(80°-90°)	1.1	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-G0

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2048.5	2048.5	2048.5	2048.5	2048.5	2048.5	2048.5	2048.5	2048.5	2048.5	2048.5
2.5°	2167.7	2174.0	2209.0	2252.7	2275.7	2328.2	2291.6	2301.1	2281.3	2211.4	2156.5
5°	2101.7	2100.9	2145.4	2253.5	2356.0	2460.1	2463.2	2407.6	2309.9	2202.6	2049.3
7.5°	1903.1	1934.0	1980.1	2152.6	2342.5	2420.3	2457.7	2392.5	2242.3	2089.0	1922.9
10°	1752.9	1768.8	1846.6	2054.8	2193.9	2298.0	2321.0	2283.7	2168.5	1977.0	1791.0
12.5°	1666.3	1674.2	1765.6	1940.4	2087.4	2164.5	2175.6	2193.1	2110.4	1930.9	1707.6
15°	1667.1	1673.4	1796.6	1942.8	2000.8	1980.1	2016.7	2015.9	2051.6	1922.1	1777.5
17.5°	1787.0	1794.2	1905.4	1977.7	1952.3	1903.9	1901.5	1938.0	2013.5	2031.0	1883.2
20°	1993.6	2010.3	2092.2	2088.2	1945.2	1847.4	1820.4	1848.2	2023.8	2123.2	2096.1
22.5°	2271.7	2294.8	2352.0	2242.3	1977.7	1809.3	1800.6	1854.6	2092.2	2329.0	2337.7
25°	2594.4	2633.3	2661.1	2520.5	2093.8	1875.2	1833.9	1926.9	2184.3	2552.2	2645.2
27.5°	2808.1	2848.6	2842.3	2641.2	2171.6	1892.7	1857.8	1944.4	2264.6	2605.5	2805.7
30°	2975.0	2999.6	3044.1	2706.4	2249.5	1942.0	1882.4	2018.3	2290.8	2697.7	2999.6
32.5°	3169.6	3186.3	3189.5	2821.6	2369.5	2004.0	1958.7	2110.4	2406.8	2785.9	3171.2
35°	3365.9	3390.5	3338.9	2963.8	2443.4	2119.2	2085.8	2270.2	2499.8	2877.2	3360.3
37.5°	3578.9	3591.6	3472.4	3022.6	2549.1	2306.7	2288.4	2442.6	2661.1	3042.5	3570.1
40°	3757.6	3769.6	3614.6	3095.0	2660.3	2568.9	2615.8	2771.5	2880.4	3149.8	3675.0
42.5°	3857.0	3884.8	3662.3	3055.2	2883.6	2866.1	3074.3	3129.1	3134.7	3180.0	3768.8
45°	3884.0	3871.3	3583.6	3087.8	3079.1	3354.8	3543.9	3616.2	3387.4	3235.6	3792.6
47.5°	3759.2	3775.9	3467.6	3059.2	3335.7	3725.1	3969.8	4104.1	3575.7	3187.1	3733.8
50°	3658.3	3636.9	3430.3	3038.5	3404.8	3899.9	4277.3	4307.5	3748.9	3246.7	3669.4
52.5°	3678.2	3691.7	3489.9	3093.4	3406.4	3910.2	4325.0	4304.3	3754.5	3233.2	3646.4
55°	3720.3	3660.7	3464.4	2972.6	3178.4	3621.8	3838.7	3806.9	3465.2	3089.4	3590.0
57.5°	3210.2	3302.3	3185.5	2653.9	2608.7	2728.6	2724.7	2822.4	2584.8	2658.7	3268.2
60°	2605.5	2621.4	2665.1	2270.2	1805.3	1764.0	1706.8	1644.8	1739.4	2273.3	2972.6
62.5°	2291.6	2272.5	2428.3	2065.2	1274.5	1067.1	1057.6	1095.7	1342.1	2168.5	2788.2
65°	1665.5	1689.3	1802.1	1602.7	956.7	814.5	800.2	913.0	1086.2	1737.8	2127.9
67.5°	1017.1	1063.2	1073.5	988.5	649.2	515.7	495.0	597.5	784.3	1124.4	1247.5
70°	469.6	525.2	577.7	539.5	375.8	212.2	200.2	251.1	395.7	646.8	661.9
72.5°	142.2	143.0	200.2	209.0	121.6	47.7	42.1	55.6	134.3	213.7	224.9
75°	10.3	11.1	27.0	31.0	23.0	11.9	12.7	15.1	28.6	47.7	35.8
77.5°	0.8	0.8	0.8	4.0	7.2	7.9	10.3	11.9	15.1	17.5	15.9
80°	0.8	0.0	0.8	3.2	5.6	7.9	9.5	11.1	11.9	13.5	11.9
82.5°	0.0	0.0	0.0	2.4	5.6	7.9	8.7	11.9	13.5	15.9	13.5
85°	0.0	0.0	0.0	2.4	5.6	8.7	7.9	4.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2048.5	2048.5	2048.5	2048.5	2048.5	2048.5	2048.5	2048.5	2048.5	2048.5	2048.5
2.5°	2166.1	2135.1	2064.4	2028.6	1944.4	1932.5	1849.8	1836.3	1808.5	1793.4	1756.9
5°	1981.7	1944.4	1829.2	1732.2	1619.4	1540.7	1480.3	1425.5	1393.7	1364.3	1377.8
7.5°	1831.5	1722.7	1594.8	1432.7	1302.3	1218.1	1125.9	1050.5	1006.0	975.8	982.9
10°	1674.2	1603.5	1425.5	1243.5	1086.2	1026.6	954.3	896.3	833.5	779.5	754.1
12.5°	1624.9	1520.1	1296.8	1111.6	992.5	934.4	851.8	785.1	704.8	638.9	615.8
15°	1633.7	1532.8	1261.8	1064.0	923.3	823.2	724.7	642.0	553.8	507.7	483.9
17.5°	1775.9	1601.1	1284.9	1013.9	827.2	688.1	566.5	461.7	395.7	348.0	337.7
20°	1950.7	1748.9	1334.1	977.4	748.5	547.5	414.0	323.4	268.6	260.6	258.2
22.5°	2206.6	1990.5	1439.8	952.7	652.4	426.7	283.7	235.2	220.1	218.5	219.3
25°	2564.2	2293.2	1555.0	932.1	580.1	329.0	232.0	199.4	194.7	192.3	196.3
27.5°	2719.1	2476.0	1616.2	887.6	514.1	296.4	228.8	197.9	184.3	180.4	182.8
30°	2910.6	2597.5	1712.4	811.3	417.2	243.9	213.7	215.3	209.0	189.1	182.8
32.5°	3164.9	2749.3	1760.8	757.2	372.7	201.8	156.5	143.8	160.5	163.7	169.2
35°	3327.8	2903.5	1785.5	725.5	349.6	172.4	132.7	120.8	116.8	117.6	120.8
37.5°	3630.5	3111.6	1816.4	692.1	332.1	150.2	120.0	108.9	103.3	103.3	106.5
40°	3811.7	3276.9	1858.6	673.8	314.7	136.7	108.9	99.3	94.6	94.6	96.1
42.5°	3857.0	3358.8	1844.3	667.5	294.8	133.5	99.3	92.2	86.6	85.8	85.0
45°	3938.0	3483.5	1846.6	660.3	274.1	121.6	93.8	85.8	77.9	77.1	76.3
47.5°	4027.0	3573.3	1851.4	632.5	254.3	101.7	97.7	79.5	69.9	68.3	68.3
50°	3950.7	3644.8	1892.7	604.7	228.8	82.6	96.1	74.7	62.0	59.6	60.4
52.5°	3960.3	3729.0	1980.1	565.8	197.1	66.0	77.9	70.7	56.4	52.4	53.2
55°	3807.7	3640.0	1992.1	524.4	154.2	50.9	59.6	62.0	47.7	46.1	46.1
57.5°	3277.7	3082.2	1757.6	425.1	101.7	42.1	42.9	54.0	41.3	39.7	40.5
60°	2804.9	2474.4	1414.4	280.5	63.6	33.4	31.0	54.8	36.6	35.8	38.1
62.5°	2557.0	2033.4	1072.7	174.0	43.7	25.4	21.5	44.5	31.8	31.8	35.0
65°	1847.4	1365.9	623.8	91.4	31.0	19.9	15.9	25.4	26.2	27.0	28.6
67.5°	1144.2	689.7	263.0	44.5	20.7	13.5	10.3	15.9	17.5	17.5	19.1
70°	565.0	274.9	87.4	25.4	15.9	11.1	7.2	8.7	8.7	7.9	8.7
72.5°	174.8	82.6	22.2	15.9	11.1	7.2	4.0	3.2	1.6	0.0	0.8
75°	19.9	15.9	14.3	11.1	7.2	3.2	0.8	0.0	0.0	0.0	0.0
77.5°	11.9	13.5	13.5	11.1	7.2	2.4	0.0	0.0	0.0	0.0	0.0
80°	9.5	10.3	11.1	10.3	6.4	3.2	0.0	0.0	0.0	0.0	0.0
82.5°	11.9	13.5	15.1	13.5	8.7	4.0	1.6	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	2.4	0.8	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°	2048.5	2048.5	2048.5	2048.5	2048.5	2048.5	2048.5	2048.5	2048.5	2048.5	2048.5
2.5°	1741.8	1724.3	1748.9	1712.4	1711.6	1712.4	1702.0	1692.5	1707.6	1748.1	1752.1
5°	1329.4	1366.7	1378.6	1417.6	1396.1	1364.3	1370.7	1349.2	1401.7	1424.7	1406.4
7.5°	967.8	965.4	1045.7	1050.5	1060.8	1061.6	1060.0	1017.9	975.0	984.5	1013.1
10°	750.9	710.4	749.3	745.3	770.8	763.6	773.9	728.6	743.7	743.7	762.0
12.5°	611.8	568.9	561.8	551.4	561.8	565.8	569.7	561.0	586.4	598.3	611.0
15°	467.2	443.4	437.0	417.2	420.3	431.5	441.0	445.0	437.0	455.3	456.9
17.5°	339.3	338.5	342.5	341.7	338.5	336.1	335.3	325.0	321.8	323.4	329.8
20°	257.4	263.8	277.3	290.8	298.0	289.2	277.3	259.8	252.7	254.3	255.1
22.5°	220.1	229.6	247.9	263.0	270.2	254.3	232.8	217.7	214.5	213.7	213.0
25°	199.4	210.6	224.1	228.8	228.0	218.5	202.6	196.3	194.7	193.1	185.9
27.5°	188.3	192.3	194.7	200.2	202.6	196.3	192.3	182.8	181.2	181.2	176.4
30°	182.0	179.6	182.8	178.8	182.0	177.2	178.0	178.0	174.0	175.6	175.6
32.5°	169.2	170.0	170.0	162.1	164.5	158.9	164.5	169.2	170.0	170.8	177.2
35°	124.0	138.3	145.4	145.4	147.8	143.8	143.0	137.5	130.3	123.2	120.0
37.5°	108.9	114.4	124.0	129.5	133.5	130.3	123.2	114.4	110.4	107.3	104.1
40°	96.9	101.7	108.1	114.4	122.4	118.4	107.3	103.3	98.5	98.5	95.4
42.5°	87.4	89.8	93.8	103.3	112.0	104.1	96.1	93.0	90.6	89.8	89.0
45°	78.7	79.5	83.4	91.4	101.7	93.8	85.8	81.8	82.6	83.4	82.6
47.5°	70.7	72.3	74.7	84.2	90.6	86.6	77.9	75.5	75.5	75.5	76.3
50°	61.2	65.2	69.9	77.9	82.6	80.3	73.1	69.9	68.3	68.3	69.1
52.5°	54.8	58.0	64.4	73.9	80.3	76.3	69.1	64.4	61.2	60.4	62.0
55°	47.7	53.2	63.6	70.7	79.5	75.5	67.5	62.0	56.4	55.6	55.6
57.5°	42.9	51.6	61.2	69.9	77.1	73.9	67.5	60.4	53.2	52.4	52.4
60°	40.5	50.1	59.6	67.5	77.1	72.3	66.7	58.8	50.9	50.9	50.1
62.5°	38.1	46.9	56.4	64.4	73.9	69.9	64.4	56.4	48.5	48.5	46.9
65°	31.8	40.5	46.9	54.0	64.4	60.4	54.8	49.3	42.9	41.3	42.1
67.5°	22.2	27.8	34.2	41.3	47.7	46.1	43.7	39.7	34.2	33.4	32.6
70°	11.1	15.1	20.7	27.8	33.4	31.8	30.2	27.0	23.8	23.0	23.0
72.5°	1.6	4.8	8.7	12.7	17.5	18.3	17.5	16.7	15.9	15.1	15.9
75°	0.0	0.0	0.0	3.2	7.2	8.7	10.3	11.9	11.9	10.3	12.7
77.5°	0.0	0.0	0.0	0.0	0.8	4.0	7.9	10.3	12.7	11.1	15.1
80°	0.0	0.0	0.0	0.0	0.8	4.8	7.9	11.1	12.7	11.1	15.9
82.5°	0.0	0.0	0.0	0.0	0.8	5.6	7.9	10.3	11.9	11.1	14.3
85°	0.0	0.0	0.0	0.0	2.4	4.8	3.2	1.6	0.8	0.8	2.4
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°	2048.5	2048.5	2048.5	2048.5	2048.5	2048.5	2048.5	2048.5	2048.5	2048.5
2.5°	1774.3	1830.7	1891.1	1914.2	1985.7	2039.7	2076.3	2154.9	2166.9	2167.7
5°	1425.5	1454.1	1557.4	1605.9	1712.4	1795.0	1883.2	2010.3	2095.3	2101.7
7.5°	1013.1	1092.6	1136.3	1262.6	1393.7	1523.2	1654.3	1802.1	1900.7	1903.1
10°	815.3	866.9	944.8	1039.3	1149.8	1281.7	1456.5	1628.1	1728.2	1752.9
12.5°	656.3	746.9	835.9	933.6	1017.9	1117.2	1305.5	1534.4	1617.0	1666.3
15°	505.4	588.0	692.9	807.3	902.7	1035.4	1249.9	1511.3	1650.4	1667.1
17.5°	372.7	446.6	543.5	651.6	794.6	982.9	1259.4	1628.1	1759.2	1787.0
20°	267.8	310.7	387.0	512.5	694.5	921.7	1269.0	1746.5	1946.0	1993.6
22.5°	212.2	229.6	279.7	390.9	582.4	857.4	1336.5	1973.0	2202.6	2271.7
25°	184.3	193.9	217.7	308.3	511.7	851.0	1444.6	2244.7	2544.3	2594.4
27.5°	178.0	179.6	200.2	282.9	473.6	808.9	1485.9	2437.8	2757.2	2808.1
30°	187.5	213.0	214.5	239.2	402.9	725.5	1507.3	2624.5	2937.6	2975.0
32.5°	162.1	154.2	159.7	185.1	354.4	677.0	1547.9	2787.4	3143.4	3169.6
35°	112.8	118.4	131.1	160.5	309.9	626.1	1558.2	2967.0	3338.9	3365.9
37.5°	104.1	107.3	117.6	136.7	272.5	597.5	1543.9	3098.1	3541.5	3578.9
40°	96.9	100.9	106.5	124.0	244.7	565.8	1524.0	3216.5	3665.5	3757.6
42.5°	91.4	94.6	99.3	118.4	220.9	534.0	1496.2	3383.4	3776.7	3857.0
45°	85.0	89.8	95.4	115.2	207.4	512.5	1475.6	3373.1	3841.1	3884.0
47.5°	78.7	86.6	93.0	107.3	203.4	502.2	1484.3	3334.1	3788.6	3759.2
50°	72.3	82.6	93.8	89.0	193.9	481.5	1494.6	3387.4	3663.9	3658.3
52.5°	66.7	78.7	87.4	73.1	172.4	461.7	1594.8	3457.3	3752.1	3678.2
55°	58.8	70.7	69.9	58.8	139.8	446.6	1673.4	3458.9	3692.5	3720.3
57.5°	53.2	62.8	54.8	49.3	103.3	373.5	1545.5	2900.3	3160.9	3210.2
60°	49.3	61.2	41.3	38.9	67.5	269.4	1349.2	2246.3	2512.5	2605.5
62.5°	45.3	58.0	32.6	31.8	46.9	191.5	1109.3	1880.0	2165.3	2291.6
65°	39.7	41.3	26.2	24.6	33.4	103.3	675.4	1294.4	1618.6	1665.5
67.5°	32.6	31.8	21.5	19.9	22.2	50.1	298.0	648.4	938.4	1017.1
70°	26.2	26.2	18.3	15.9	15.9	23.0	77.9	258.2	424.3	469.6
72.5°	19.1	19.9	14.3	12.7	11.9	11.1	12.7	51.6	111.2	142.2
75°	16.7	17.5	14.3	11.1	8.7	7.2	5.6	4.8	6.4	10.3
77.5°	18.3	18.3	15.1	10.3	7.9	5.6	3.2	1.6	1.6	0.8
80°	23.0	23.8	19.9	13.5	9.5	6.4	4.0	1.6	0.8	0.8
82.5°	24.6	27.0	22.2	16.7	11.9	7.2	4.0	0.8	0.0	0.0
85°	6.4	10.3	17.5	15.1	11.9	7.2	4.0	0.8	0.0	0.0
87.5°	0.0	0.8	2.4	2.4	3.2	3.2	2.4	0.8	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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