

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: P527172

Luminaire Tested: **GALN-SA2A-830-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
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-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5442 lumens
Efficiency: N/A
Efficacy: 86.4 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): 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



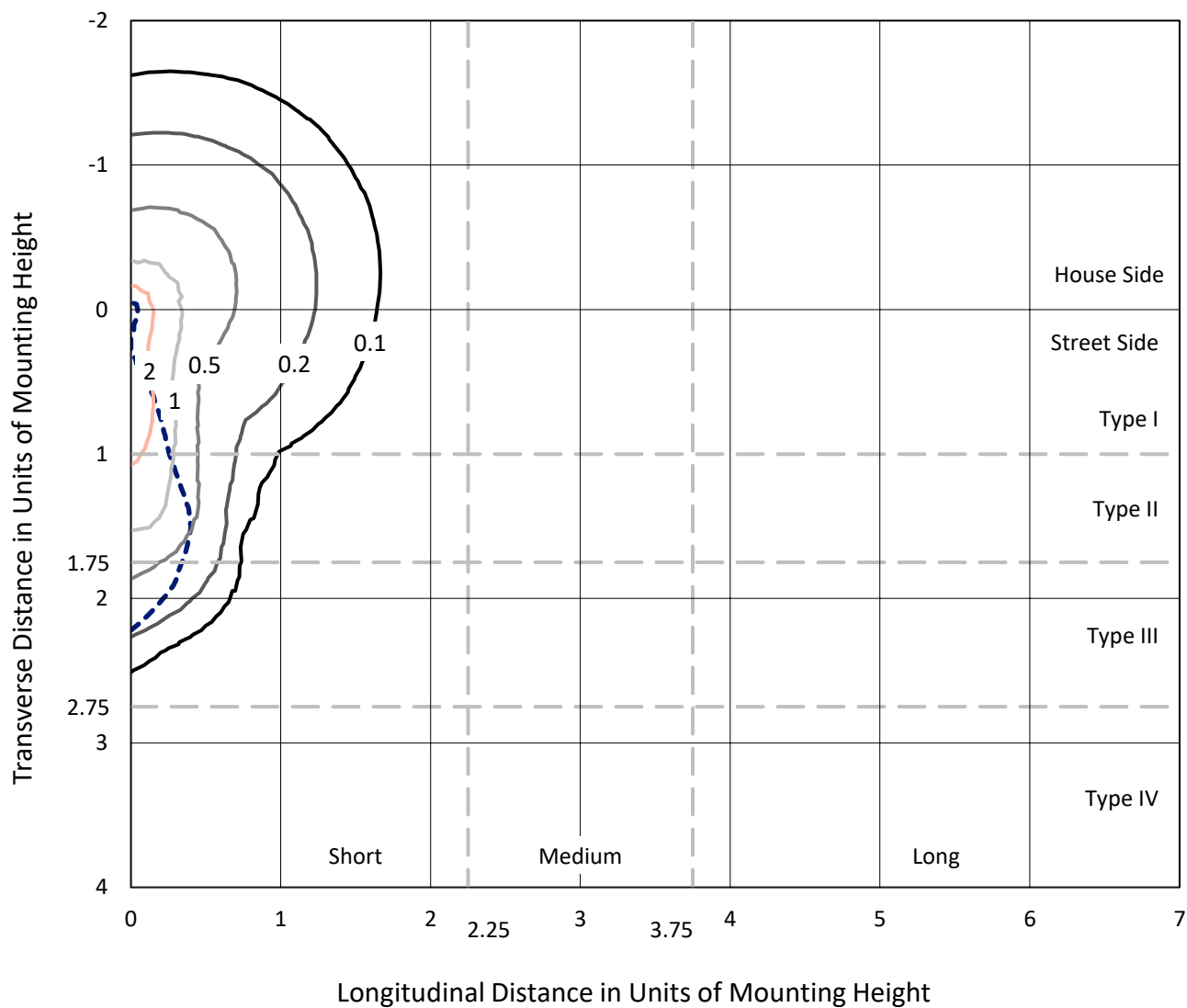
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

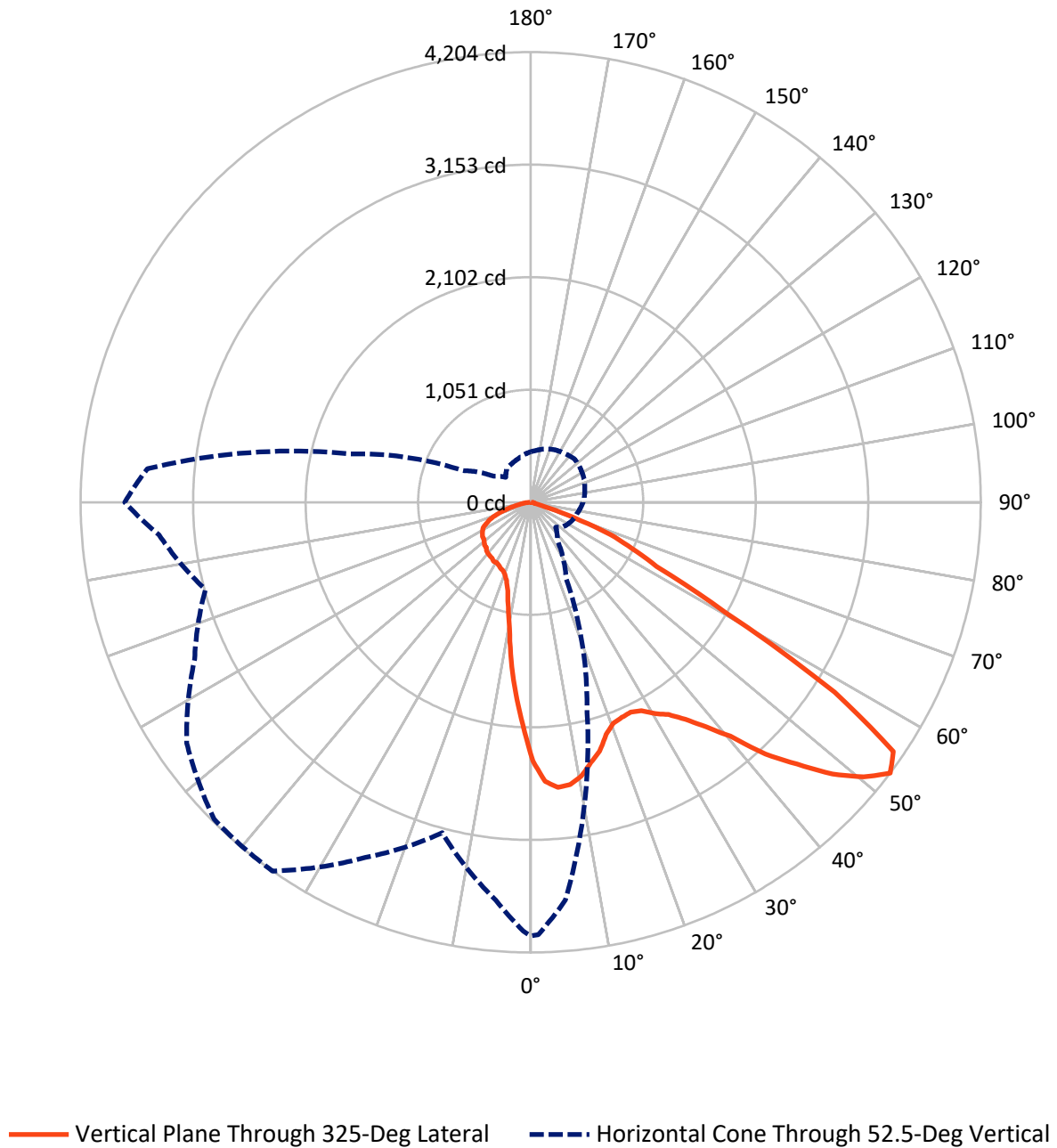
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	1640.5	0.0	1640.5
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	3801.5	0.0	3801.5
	% Fixture	69.9	0.0	69.9
Total	Lumens	5442.0	0.0	5442.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.3	3.4
10°-20°	399.4	7.3
20°-30°	603.5	11.1
30°-40°	872.1	16.0
40°-50°	1160.6	21.3
50°-60°	1298.2	23.9
60°-70°	731.7	13.4
70°-80°	163.1	3.0
80°-90°	29.0	0.5
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°	5442.0	100.0
0°-180°	5442.0	100.0

Coefficient of Utilization



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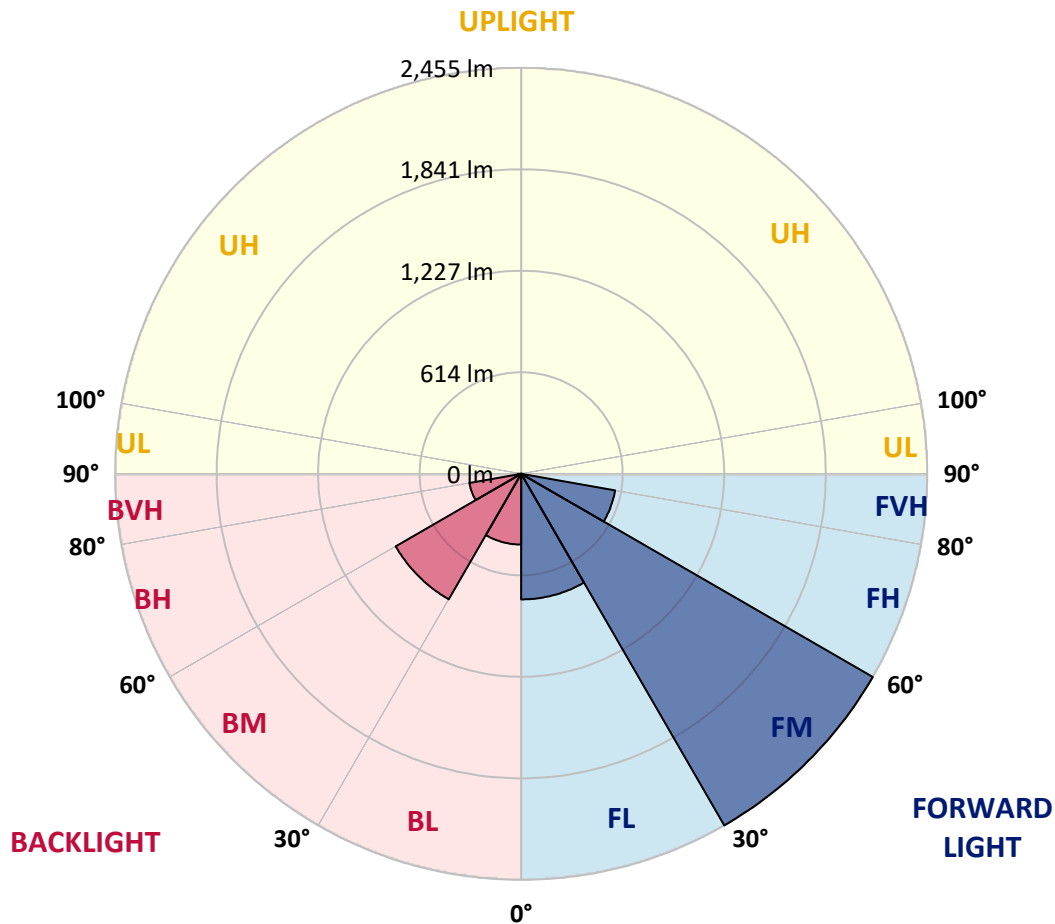
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	759.4	14.0			
FM	(30°-60°)	2454.8	45.1			
FH	(60°-80°)	576.8	10.6			G0/660
FVH	(80°-90°)	10.5	0.2			G1/100
BL	(0°-30°)	427.8	7.9	B1/500		
BM	(30°-60°)	876.2	16.1	B1/1000		
BH	(60°-80°)	318.0	5.8	B1/500		G1/500
BVH	(80°-90°)	18.5	0.3			G1/100
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°	2415.2	2415.2	2415.2	2415.2	2415.2	2415.2	2415.2	2415.2	2415.2	2415.2	2415.2
2.5°	2455.4	2494.9	2452.3	2376.5	2322.9	2274.0	2222.7	2212.5	2145.4	2133.6	2084.7
5°	2315.8	2307.1	2255.1	2155.7	2046.1	1946.7	1873.3	1802.3	1754.2	1698.2	1694.3
7.5°	2146.2	2095.7	2065.8	1915.1	1779.4	1623.3	1556.2	1448.2	1414.3	1363.8	1337.7
10°	1994.8	1957.7	1887.5	1736.9	1547.6	1444.2	1372.4	1314.1	1274.6	1222.6	1157.1
12.5°	1919.8	1904.9	1826.0	1592.5	1452.1	1341.7	1291.2	1234.4	1167.4	1083.8	1051.4
15°	1933.3	1882.8	1822.8	1564.9	1370.9	1264.4	1183.9	1112.9	1027.0	947.3	900.8
17.5°	2033.4	1994.8	1874.9	1582.3	1340.1	1186.3	1040.4	935.5	858.2	786.4	754.1
20°	2230.6	2174.6	2039.7	1604.3	1273.9	1077.5	910.2	780.9	698.1	660.2	649.2
22.5°	2449.1	2416.0	2200.6	1654.0	1221.0	976.5	772.2	642.8	612.1	601.8	622.3
25°	2714.9	2628.9	2450.7	1735.3	1180.0	890.5	655.5	583.7	567.9	578.2	601.8
27.5°	2916.8	2894.0	2625.8	1811.8	1124.0	787.2	590.0	542.7	547.4	557.7	579.7
30°	3156.6	3040.7	2795.4	1864.6	1073.5	716.2	544.2	531.6	536.4	553.7	564.8
32.5°	3301.0	3257.6	2901.9	1944.3	1015.1	654.7	508.8	496.9	504.0	530.0	556.1
35°	3484.8	3398.8	3033.6	1964.8	974.1	630.2	483.5	474.8	491.4	509.5	538.7
37.5°	3699.3	3640.1	3215.8	1950.6	952.0	605.0	462.2	458.3	470.1	495.3	529.3
40°	3826.3	3808.1	3311.2	1959.3	917.3	582.9	437.8	442.5	466.9	486.7	519.8
42.5°	3948.5	3830.2	3452.4	1956.1	895.2	552.9	440.1	434.6	453.5	476.4	508.0
45°	3975.4	3857.8	3485.5	1934.0	868.4	523.7	422.0	424.4	447.2	475.6	496.1
47.5°	3958.0	3871.2	3547.1	1927.7	843.2	503.2	395.2	423.6	437.0	459.8	489.0
50°	3946.2	3941.4	3599.1	1957.7	809.3	470.9	362.8	413.3	426.7	449.6	481.1
52.5°	4050.3	4040.0	3729.3	2036.6	782.5	436.2	329.7	387.3	419.6	441.7	472.5
55°	4113.4	4068.4	3952.5	2133.6	737.5	390.4	306.8	354.9	402.3	422.0	453.5
57.5°	3700.1	3669.3	3575.5	1991.6	661.8	330.5	278.4	321.8	378.6	409.4	441.7
60°	3078.5	3030.4	2789.9	1692.7	488.2	257.1	261.1	295.8	372.3	384.1	422.0
62.5°	2902.6	2783.5	2456.2	1362.2	374.7	220.9	234.3	272.1	339.2	358.9	396.7
65°	2303.2	2214.8	1757.4	983.6	250.8	191.7	213.8	245.3	292.6	331.3	366.0
67.5°	1441.9	1357.5	937.8	465.4	175.1	164.1	190.9	224.0	262.7	297.4	336.0
70°	753.3	661.0	433.0	168.0	120.7	134.1	159.3	190.9	228.7	257.1	287.1
72.5°	280.8	228.0	141.2	72.6	83.6	102.5	129.4	152.2	179.0	213.8	230.3
75°	43.4	37.1	36.3	44.2	56.8	74.1	92.3	115.2	138.8	160.9	172.0
77.5°	20.5	19.7	22.1	29.2	37.9	52.8	67.0	89.1	108.1	122.3	128.6
80°	13.4	12.6	14.2	19.7	28.4	39.4	53.6	68.6	86.0	97.8	96.2
82.5°	7.9	8.7	8.7	13.4	19.7	28.4	38.6	52.1	63.9	74.1	67.8
85°	4.7	3.9	3.9	7.9	13.4	22.9	32.3	22.1	22.9	22.9	26.0
87.5°	1.6	1.6	1.6	0.8	1.6	1.6	2.4	3.9	4.7	5.5	7.1
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°	2415.2	2415.2	2415.2	2415.2	2415.2	2415.2	2415.2	2415.2	2415.2	2415.2	2415.2
2.5°	2083.1	2107.6	2098.9	2068.1	2091.8	2095.7	2080.0	2134.4	2144.6	2128.1	2132.8
5°	1688.7	1695.1	1709.2	1739.2	1760.5	1785.8	1785.8	1787.3	1766.0	1819.7	1803.9
7.5°	1315.7	1319.6	1336.2	1400.1	1418.2	1466.3	1486.8	1472.6	1430.0	1411.9	1426.9
10°	1135.8	1112.9	1107.4	1115.3	1156.3	1176.8	1194.2	1189.5	1182.4	1168.2	1152.4
12.5°	1015.9	999.4	986.0	967.0	969.4	989.1	1002.5	991.5	994.6	997.8	1002.5
15°	885.8	873.9	866.9	838.5	835.3	848.7	853.4	859.8	871.6	872.4	866.9
17.5°	747.7	737.5	753.3	769.0	758.0	758.8	767.5	773.0	769.8	755.6	748.5
20°	653.1	664.1	679.9	694.9	706.7	713.8	717.0	708.3	698.1	668.9	668.1
22.5°	625.5	639.7	653.1	676.0	687.0	705.2	688.6	668.9	654.7	640.5	623.9
25°	605.0	616.8	643.6	652.3	673.6	688.6	676.8	657.0	632.6	612.1	599.5
27.5°	590.0	603.4	620.8	644.4	661.0	669.7	657.8	649.9	624.7	600.2	582.1
30°	580.5	594.7	626.3	646.0	660.2	667.3	646.8	637.3	619.2	598.7	582.9
32.5°	574.2	586.8	613.7	638.9	648.4	648.4	651.5	640.5	615.2	580.5	567.1
35°	553.7	571.1	593.1	622.3	639.7	649.9	634.2	621.5	605.0	569.5	545.0
37.5°	541.9	553.7	582.1	609.7	624.7	635.7	629.4	607.3	585.3	556.1	536.4
40°	529.3	548.2	573.4	599.5	616.0	627.1	622.3	596.3	569.5	541.9	528.5
42.5°	520.6	533.2	559.2	588.4	608.1	629.4	615.2	582.9	564.0	526.1	511.1
45°	513.5	534.0	561.6	573.4	593.9	616.0	590.8	571.1	549.0	521.4	508.8
47.5°	504.8	523.7	541.9	573.4	582.9	593.1	588.4	556.9	537.9	508.0	499.3
50°	501.7	508.8	541.9	559.2	572.6	582.9	570.3	546.6	528.5	497.7	478.8
52.5°	489.0	502.4	523.7	546.6	563.2	575.8	555.3	540.3	515.9	483.5	471.7
55°	473.3	481.1	519.0	542.7	551.3	560.0	552.1	527.7	502.4	469.3	457.5
57.5°	452.8	470.9	501.7	534.8	545.8	550.6	537.9	518.2	486.7	457.5	438.6
60°	431.5	450.4	484.3	511.1	522.2	539.5	520.6	508.8	472.5	440.1	419.6
62.5°	410.2	431.5	456.7	490.6	500.1	507.2	502.4	485.9	456.7	420.4	395.2
65°	384.9	400.7	432.2	449.6	455.9	472.5	455.9	449.6	423.6	388.9	367.6
67.5°	347.1	360.5	388.1	404.6	409.4	416.5	415.7	408.6	379.4	355.7	336.8
70°	303.7	315.5	332.9	352.6	354.9	363.6	355.7	354.2	335.2	302.9	292.6
72.5°	243.7	254.8	277.6	286.3	287.1	290.3	286.3	280.8	276.1	242.2	231.9
75°	186.9	193.2	204.3	212.2	212.2	216.1	213.8	208.2	195.6	174.3	164.1
77.5°	130.1	136.5	150.7	155.4	154.6	156.2	149.1	143.6	124.6	113.6	104.9
80°	94.7	98.6	105.7	108.8	109.6	112.0	103.3	98.6	87.6	74.9	71.0
82.5°	68.6	71.0	71.8	75.7	75.7	71.8	69.4	64.7	56.8	48.9	45.7
85°	28.4	29.2	30.0	34.7	35.5	42.6	39.4	37.1	32.3	27.6	25.2
87.5°	7.1	7.9	10.3	8.7	10.3	10.3	11.0	12.6	12.6	10.3	10.3
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°	2415.2	2415.2	2415.2	2415.2	2415.2	2415.2	2415.2	2415.2	2415.2	2415.2	2415.2
2.5°	2151.0	2157.3	2237.7	2248.0	2287.4	2327.6	2408.9	2467.3	2514.6	2545.3	2554.0
5°	1820.5	1860.7	1897.8	1957.7	2012.1	2089.4	2178.6	2289.0	2427.8	2498.8	2527.2
7.5°	1425.3	1472.6	1526.3	1584.6	1664.3	1803.1	1922.2	2050.0	2227.5	2300.8	2412.0
10°	1163.4	1216.3	1287.3	1332.2	1428.5	1561.0	1699.8	1847.3	2016.9	2122.6	2251.1
12.5°	1028.5	1071.9	1137.4	1232.0	1303.8	1389.8	1493.1	1679.3	1922.2	2022.4	2110.7
15°	879.5	927.6	1003.3	1108.2	1194.2	1296.7	1412.7	1615.4	1874.1	2028.7	2103.6
17.5°	756.4	791.1	870.8	961.5	1060.1	1172.1	1338.5	1612.2	1924.6	2122.6	2244.8
20°	671.2	676.0	719.4	796.7	930.7	1076.7	1292.8	1596.5	2086.3	2284.3	2438.9
22.5°	617.6	612.9	613.7	679.1	773.0	982.8	1221.0	1650.1	2270.1	2541.4	2645.5
25°	590.8	578.2	570.3	584.5	669.7	871.6	1166.6	1721.1	2468.0	2753.6	2881.4
27.5°	576.6	554.5	538.7	541.1	603.4	815.6	1132.7	1751.8	2664.4	3049.4	3094.3
30°	571.1	543.5	520.6	512.7	553.7	737.5	1060.1	1804.7	2840.3	3211.8	3250.5
32.5°	551.3	517.4	495.3	488.2	504.8	668.9	1008.0	1842.6	2995.7	3388.5	3375.1
35°	528.5	500.1	472.5	459.1	470.9	624.7	966.2	1824.4	3178.7	3525.8	3518.7
37.5°	526.1	489.0	466.2	444.1	443.3	570.3	909.4	1841.8	3295.5	3771.9	3674.8
40°	505.6	481.9	452.0	433.8	423.6	542.7	854.2	1800.7	3466.6	3871.2	3775.8
42.5°	506.4	470.9	444.9	423.6	413.3	502.4	816.4	1789.7	3526.6	4032.9	3823.1
45°	493.8	459.1	437.0	411.7	406.2	471.7	780.1	1738.4	3632.3	4040.8	3764.0
47.5°	481.1	450.4	426.7	396.7	384.1	460.6	751.7	1695.8	3577.0	3966.7	3681.9
50°	472.5	437.0	414.9	393.6	358.1	441.7	714.6	1685.6	3499.7	3866.5	3529.7
52.5°	457.5	425.9	403.1	386.5	329.7	424.4	700.4	1745.5	3594.4	3791.6	3485.5
55°	443.3	410.9	381.8	349.4	306.0	378.6	661.0	1801.5	3732.4	3964.3	3685.9
57.5°	428.3	397.5	366.0	327.3	283.2	331.3	620.0	1811.8	3473.7	3663.8	3499.0
60°	408.6	369.1	345.5	295.0	258.7	274.5	491.4	1597.2	2694.4	3059.6	3065.1
62.5°	386.5	343.9	323.4	264.2	233.5	236.6	400.7	1342.5	2185.7	2532.7	2683.4
65°	357.3	316.3	291.8	244.5	215.3	205.1	293.4	983.6	1660.3	2054.7	2225.9
67.5°	319.4	280.8	250.0	213.0	192.5	175.9	200.3	553.7	980.4	1379.5	1431.6
70°	279.2	246.1	213.8	183.0	160.1	148.3	146.7	245.3	468.5	742.2	844.8
72.5°	220.1	196.4	170.4	147.5	132.5	115.2	104.9	101.8	158.5	302.1	417.3
75°	157.8	138.0	123.0	108.1	97.0	87.6	79.7	72.6	66.3	75.7	104.1
77.5°	99.4	92.3	80.5	76.5	70.2	67.8	64.7	60.7	56.0	52.8	52.8
80°	67.0	62.3	58.4	57.6	55.2	54.4	55.2	51.3	46.5	42.6	44.2
82.5°	45.0	44.2	43.4	42.6	43.4	44.2	45.7	45.0	41.0	38.6	39.4
85°	26.8	28.4	30.0	31.6	34.7	30.8	25.2	21.3	18.9	17.4	16.6
87.5°	10.3	14.2	12.6	11.8	12.6	11.8	11.0	10.3	8.7	7.9	7.9
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°	2415.2	2415.2	2415.2	2415.2	2415.2	2415.2	2415.2	2415.2	2415.2	2415.2
2.5°	2611.6	2627.4	2640.8	2637.6	2610.0	2572.9	2558.0	2481.4	2465.7	2455.4
5°	2647.1	2738.6	2758.3	2746.5	2674.7	2584.0	2495.6	2383.6	2318.2	2315.8
7.5°	2581.6	2694.4	2729.9	2756.7	2661.3	2503.5	2352.1	2184.1	2143.1	2146.2
10°	2415.2	2595.0	2682.6	2710.2	2600.6	2464.1	2254.3	2083.9	1996.4	1994.8
12.5°	2322.9	2464.1	2488.5	2527.2	2494.9	2356.8	2197.5	2006.6	1921.4	1919.8
15°	2240.9	2334.0	2341.0	2395.5	2412.8	2319.8	2212.5	2009.0	1940.4	1933.3
17.5°	2312.7	2248.0	2221.2	2228.3	2279.5	2313.4	2299.2	2143.1	2072.9	2033.4
20°	2360.8	2216.4	2135.2	2143.1	2203.8	2327.6	2428.6	2337.1	2225.9	2230.6
22.5°	2489.3	2221.2	2094.2	2085.5	2181.7	2401.8	2574.5	2582.4	2475.1	2449.1
25°	2681.8	2275.6	2081.5	2079.2	2171.5	2481.4	2744.9	2872.7	2763.0	2714.9
27.5°	2836.4	2360.8	2121.0	2128.9	2203.8	2546.1	2890.0	3059.6	2976.0	2916.8
30°	2972.1	2449.1	2176.2	2139.9	2290.6	2580.0	2952.3	3272.6	3205.5	3156.6
32.5°	3028.1	2574.5	2263.8	2203.8	2362.3	2621.1	3081.7	3479.2	3421.7	3301.0
35°	3122.7	2644.7	2311.1	2306.3	2487.8	2719.7	3142.4	3615.7	3592.0	3484.8
37.5°	3198.4	2715.7	2479.1	2427.0	2659.7	2885.3	3240.2	3804.2	3749.8	3699.3
40°	3256.8	2842.7	2636.0	2704.7	2871.1	3035.9	3330.2	3816.0	3973.0	3826.3
42.5°	3203.2	2956.3	2894.0	3058.0	3215.8	3207.9	3340.4	3907.5	4025.1	3948.5
45°	3189.8	3148.7	3301.8	3450.8	3487.1	3350.7	3267.1	3806.6	4009.3	3975.4
47.5°	3157.4	3338.0	3604.6	3847.6	3792.4	3446.1	3179.5	3788.4	4018.7	3958.0
50°	3146.4	3379.1	3828.7	4065.3	4032.2	3528.9	3138.5	3671.7	3951.7	3946.2
52.5°	3145.6	3463.5	3921.7	4183.6	4204.1	3659.9	3194.5	3730.9	4003.8	4050.3
55°	3181.1	3436.6	3909.9	4118.1	4110.2	3601.5	3200.8	3770.3	4067.7	4113.4
57.5°	3000.5	3078.5	3226.8	3391.7	3349.1	2983.1	2858.5	3485.5	3733.2	3700.1
60°	2591.1	2346.6	2179.4	2171.5	2088.6	1974.3	2339.5	3110.9	3110.9	3078.5
62.5°	2269.3	1540.5	1323.5	1262.0	1321.2	1452.9	2256.7	3025.7	2939.7	2902.6
65°	1984.5	1176.0	956.8	939.4	1042.0	1240.7	2040.5	2577.7	2426.2	2303.2
67.5°	1277.0	861.3	711.5	680.7	804.5	911.0	1358.3	1585.4	1490.0	1441.9
70°	823.5	560.8	396.0	371.5	419.6	561.6	867.6	924.4	785.6	753.3
72.5°	389.6	242.2	138.8	114.4	128.6	214.5	343.1	369.1	306.8	280.8
75°	123.8	89.1	56.8	48.9	46.5	55.2	78.9	60.7	44.2	43.4
77.5°	55.2	52.8	45.0	37.9	33.1	27.6	22.9	18.9	19.7	20.5
80°	45.7	41.8	37.1	33.1	27.6	21.3	16.6	12.6	12.6	13.4
82.5°	40.2	36.3	32.3	27.6	23.7	17.4	12.6	8.7	7.9	7.9
85°	17.4	20.5	22.1	23.7	18.9	14.2	8.7	5.5	4.7	4.7
87.5°	7.1	6.3	5.5	4.7	3.9	3.9	3.2	2.4	1.6	1.6
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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