

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: P450202

Luminaire Tested: **GALN-SA1A-727-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2779 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

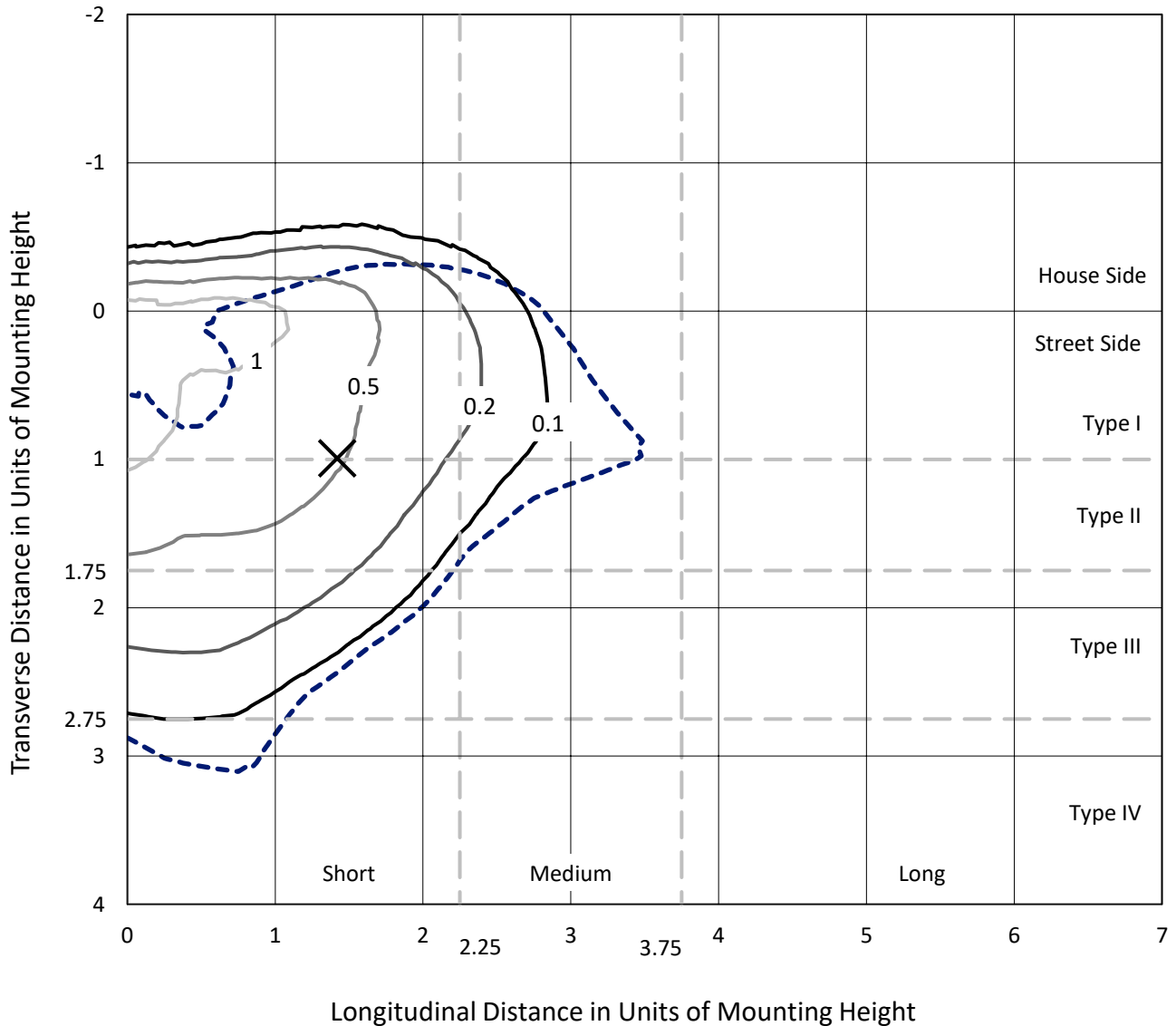
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

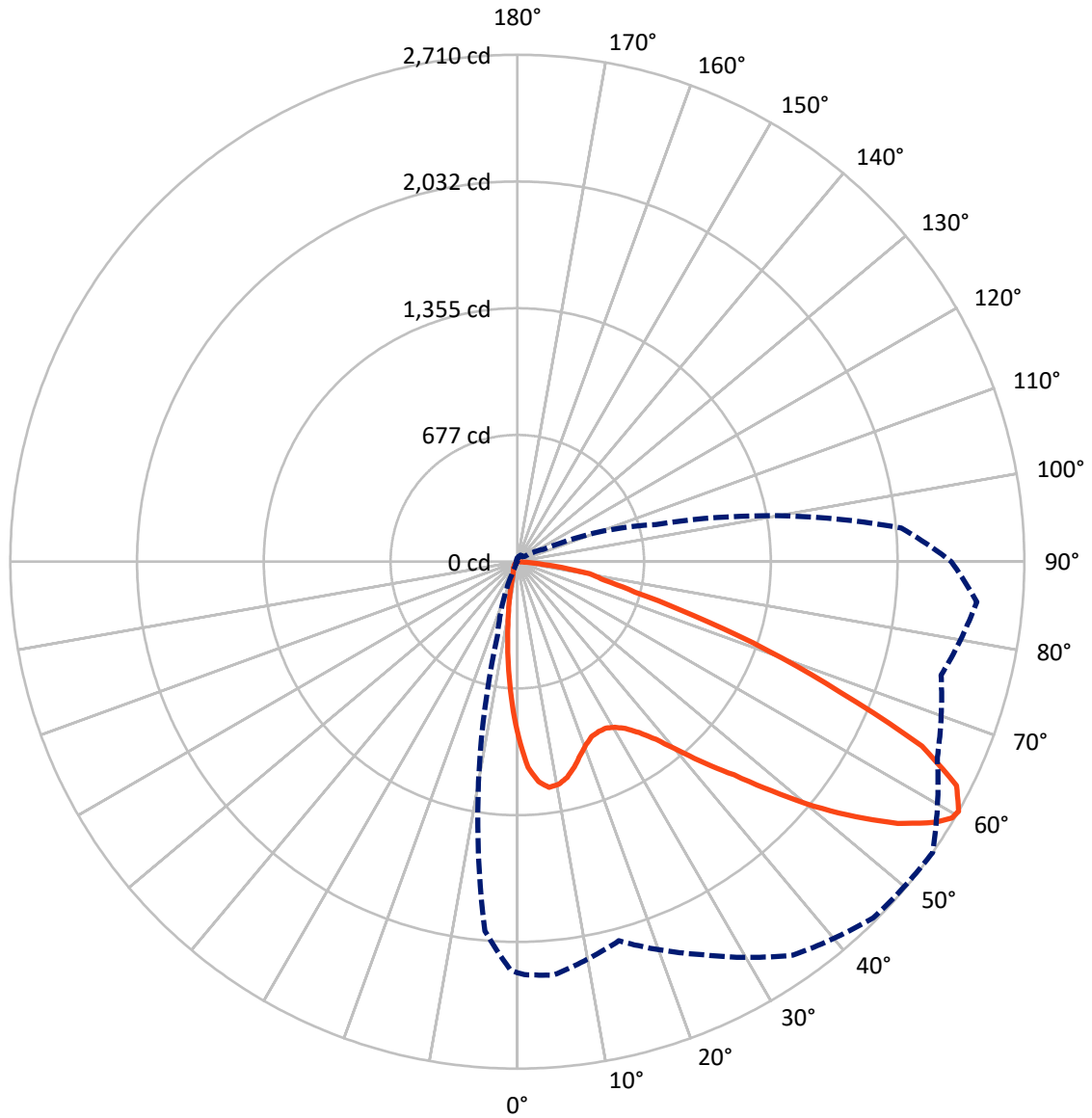
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	412.4	0.0	412.4
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	2366.6	0.0	2366.6
	% Fixture	85.2	0.0	85.2
Total	Lumens	2779.0	0.0	2779.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.7	2.5
10°-20°	137.2	4.9
20°-30°	203.1	7.3
30°-40°	302.7	10.9
40°-50°	443.4	16.0
50°-60°	640.1	23.0
60°-70°	673.3	24.2
70°-80°	277.0	10.0
80°-90°	32.4	1.2
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°	2779.0	100.0
0°-180°	2779.0	100.0

Coefficient of Utilization



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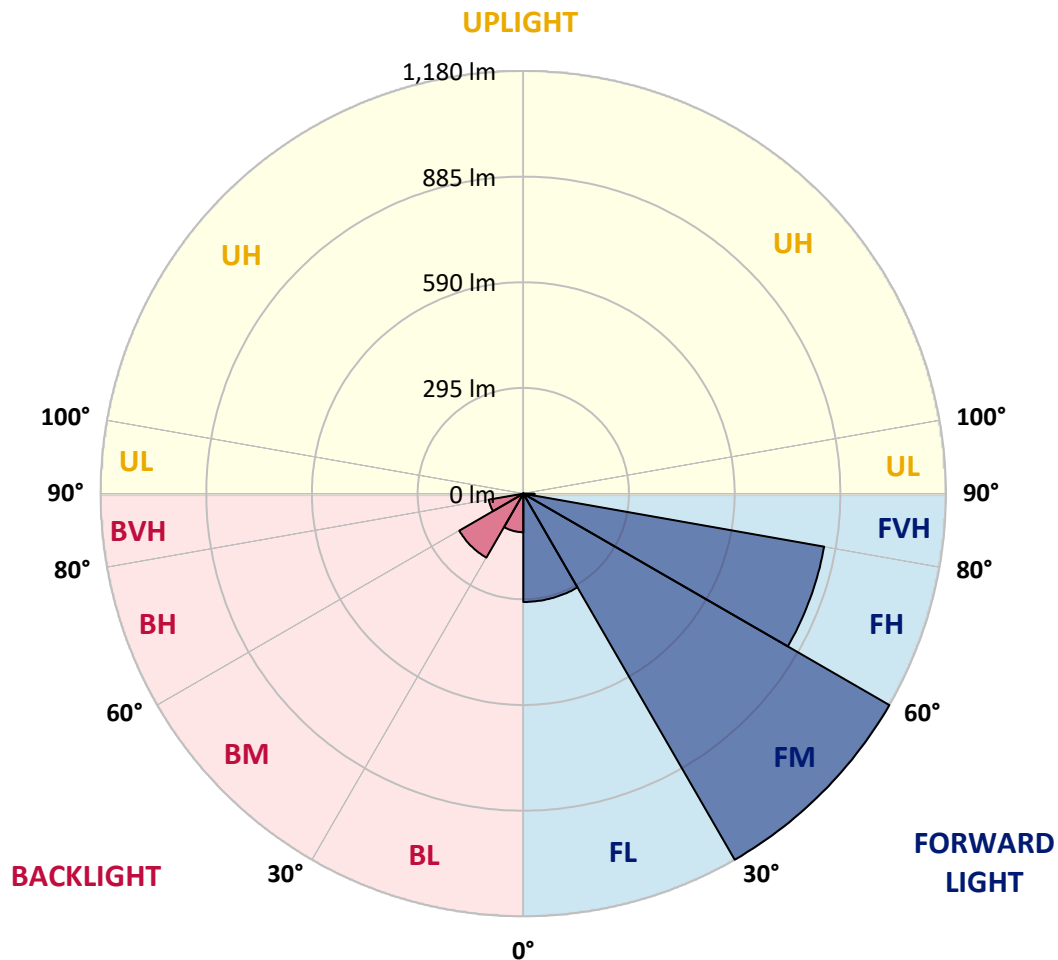
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	302.4	10.9			
FM (30°-60°)	1180.0	42.5			
FH (60°-80°)	852.7	30.7			G1/1800
FVH (80°-90°)	31.5	1.1			G1/100
BL (0°-30°)	107.6	3.9	B0/110		
BM (30°-60°)	206.3	7.4	B0/220		
BH (60°-80°)	97.6	3.5	B0/110		G0/110
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0
2.5°	1028.0	1026.3	1041.5	1066.3	1091.3	1104.4	1101.8	1100.7	1080.0	1064.8	1032.9
5°	1025.9	1034.7	1061.8	1129.0	1179.9	1204.5	1211.8	1181.2	1140.7	1082.1	1009.8
7.5°	964.5	975.4	1019.7	1124.7	1215.2	1268.7	1266.7	1217.8	1134.3	1043.6	940.5
10°	888.3	901.2	953.2	1080.6	1198.1	1268.7	1272.5	1210.5	1106.7	990.4	881.9
12.5°	834.7	849.8	907.4	1039.6	1154.0	1223.5	1228.0	1183.1	1086.0	969.8	850.1
15°	816.5	830.8	889.2	1018.8	1107.2	1144.6	1143.5	1138.8	1077.9	974.8	851.8
17.5°	847.7	859.5	925.3	1028.2	1063.3	1059.5	1065.0	1087.7	1079.6	1016.0	905.7
20°	928.3	940.3	1011.1	1057.1	1029.7	1005.3	1007.9	1045.8	1095.4	1093.7	989.9
22.5°	1039.4	1059.7	1123.8	1113.2	1025.2	971.8	966.4	1015.6	1122.4	1183.1	1103.7
25°	1179.9	1200.4	1250.5	1202.6	1047.3	963.8	958.9	1006.4	1155.1	1270.4	1231.9
27.5°	1298.0	1313.6	1363.4	1289.6	1079.8	967.3	959.1	1007.7	1181.6	1344.6	1339.9
30°	1392.5	1404.1	1433.4	1330.3	1107.8	982.2	972.8	1026.5	1193.4	1380.7	1427.4
32.5°	1468.7	1488.1	1497.3	1373.7	1148.0	1010.5	994.4	1062.7	1222.0	1425.5	1519.1
35°	1555.7	1578.2	1566.4	1415.2	1201.1	1054.5	1034.9	1121.3	1265.5	1466.7	1625.7
37.5°	1666.1	1692.0	1646.0	1458.8	1257.1	1120.9	1111.7	1203.6	1331.3	1525.8	1739.9
40°	1780.3	1795.3	1723.2	1511.9	1326.0	1217.3	1226.1	1326.0	1417.5	1596.6	1861.4
42.5°	1869.5	1883.6	1802.6	1556.4	1396.4	1331.8	1368.3	1473.6	1516.4	1669.1	1952.1
45°	1937.8	1949.7	1857.5	1604.9	1491.3	1497.5	1566.6	1625.7	1615.4	1713.4	2022.0
47.5°	1990.8	2001.1	1899.9	1657.1	1633.6	1700.3	1806.0	1831.0	1718.1	1761.3	2085.3
50°	2012.6	2015.6	1913.2	1723.6	1795.1	1958.7	2068.9	2053.7	1835.7	1814.5	2152.7
52.5°	2041.1	2040.4	1951.0	1787.0	1947.0	2189.7	2299.7	2265.2	1968.8	1894.3	2228.4
55°	2115.7	2116.6	2032.1	1876.8	2076.4	2376.3	2493.9	2468.9	2109.1	2029.1	2316.8
57.5°	2206.4	2209.6	2147.4	1981.8	2200.0	2511.4	2638.9	2629.3	2298.8	2179.0	2400.2
59°	2218.2	2224.6	2201.9	2055.8	2273.4	2552.9	2688.6	2698.0	2400.4	2277.9	2445.3
60°	2196.8	2207.5	2217.8	2097.8	2316.4	2567.9	2691.5	2709.9	2476.8	2345.0	2465.9
62.5°	2103.5	2120.4	2172.0	2226.7	2370.1	2521.3	2595.9	2634.4	2571.3	2521.5	2467.8
65°	1981.4	1990.2	2064.6	2249.6	2265.9	2303.5	2326.6	2376.0	2457.8	2589.5	2379.5
67.5°	1781.2	1807.1	1898.2	2116.8	1958.5	1914.0	1908.2	1859.0	2071.2	2427.4	2161.7
70°	1471.4	1483.0	1595.3	1735.4	1478.1	1409.6	1437.0	1418.6	1605.6	2089.6	1739.9
72.5°	1112.7	1138.8	1248.6	1383.3	1005.8	917.0	992.5	985.7	1206.0	1679.4	1195.3
75°	791.7	808.6	948.4	1082.6	704.4	596.8	624.0	649.4	841.9	1326.0	706.3
77.5°	544.0	558.5	663.5	715.9	513.8	492.2	450.3	474.9	551.7	786.7	384.4
80°	328.1	327.5	396.6	409.4	357.9	415.6	348.7	391.4	333.5	336.7	148.9
82.5°	213.0	210.9	242.6	264.4	199.1	209.4	140.5	202.6	217.3	93.9	47.1
85°	95.4	99.5	116.6	153.8	87.3	46.4	28.7	62.2	92.6	47.3	0.0
87.5°	9.8	7.7	20.5	37.4	12.0	1.3	4.3	2.1	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°	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0
2.5°	1018.2	1005.8	968.8	934.1	904.4	868.0	844.5	807.5	785.0	778.2	779.3
5°	977.3	941.6	871.2	815.0	752.3	716.6	662.2	610.1	581.8	571.3	566.6
7.5°	891.8	853.5	768.6	680.2	613.0	550.4	509.9	464.0	432.5	406.6	402.1
10°	828.2	778.0	672.7	577.8	524.7	477.6	437.2	391.2	354.2	324.7	316.6
12.5°	790.2	733.9	616.5	536.9	486.6	438.3	385.7	332.4	294.5	262.7	247.9
15°	783.3	718.1	600.6	507.6	445.6	387.2	317.2	259.7	220.7	190.6	181.4
17.5°	824.6	746.5	598.3	477.0	391.9	309.1	236.4	188.7	144.8	127.9	121.3
20°	898.2	796.8	598.1	441.5	336.7	238.1	166.0	123.0	105.2	97.1	93.3
22.5°	998.5	865.2	609.4	410.9	279.4	175.6	118.5	98.0	87.7	81.1	79.6
25°	1121.1	966.6	637.2	390.2	235.5	137.8	97.8	83.9	75.3	72.3	71.0
27.5°	1229.9	1063.7	667.8	368.8	204.1	121.9	90.7	76.8	69.9	67.6	65.7
30°	1323.8	1151.9	682.6	340.5	178.8	111.7	92.0	82.1	73.2	66.1	62.9
32.5°	1402.1	1219.5	692.2	314.9	157.4	91.3	72.7	63.5	59.5	56.9	54.8
35°	1500.1	1292.6	686.4	300.3	146.5	83.2	66.3	54.8	47.9	42.8	40.6
37.5°	1602.8	1365.8	676.4	288.3	141.6	77.2	63.1	52.0	44.5	39.1	36.4
40°	1709.1	1433.6	664.6	277.2	137.1	73.4	61.2	49.6	42.1	36.4	33.4
42.5°	1806.4	1499.7	659.9	269.9	129.8	74.0	59.7	48.6	39.8	33.8	31.2
45°	1885.1	1562.4	666.3	266.1	121.9	72.9	60.1	47.3	37.9	32.1	29.5
47.5°	1969.2	1650.9	687.1	262.2	114.2	67.8	63.3	47.1	37.0	31.0	28.2
50°	2066.9	1764.3	734.5	252.8	104.8	62.2	67.4	46.8	35.9	29.7	27.0
52.5°	2197.2	1893.0	783.5	236.4	91.1	56.9	64.4	46.2	33.8	28.2	25.5
55°	2314.2	2028.7	825.0	216.9	73.8	49.2	58.0	43.4	30.2	25.7	23.1
57.5°	2362.6	2105.2	823.7	189.9	59.0	43.2	47.7	39.8	26.3	22.7	20.5
59°	2344.8	2095.6	796.1	170.1	53.9	40.0	39.6	39.4	24.6	20.5	18.8
60°	2319.8	2060.5	766.4	160.2	50.7	37.9	36.4	38.9	23.1	19.3	17.5
62.5°	2224.0	1915.1	667.8	143.5	46.4	32.1	29.1	32.9	20.5	16.7	15.2
65°	2085.1	1691.5	565.3	138.8	45.1	26.5	24.2	23.5	17.5	14.1	12.8
67.5°	1814.3	1431.4	458.0	135.6	45.6	22.2	21.2	17.8	14.5	11.8	10.9
70°	1452.6	1116.1	375.0	132.0	46.0	18.2	17.8	14.1	11.8	9.8	9.0
72.5°	882.6	661.6	295.2	114.7	44.7	14.5	15.8	10.7	8.6	7.1	6.6
75°	545.7	452.8	183.1	89.2	29.5	10.7	11.1	6.6	5.8	4.5	4.5
77.5°	316.1	286.0	65.5	32.1	13.0	6.4	4.9	3.4	3.2	1.9	1.9
80°	131.1	105.0	22.7	10.9	7.1	3.0	1.1	0.2	0.0	0.0	0.0
82.5°	38.3	34.0	6.2	4.9	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0
2.5°	761.1	754.0	750.8	761.7	751.7	764.5	754.7	758.9	771.6	777.1	791.4
5°	569.6	562.4	558.9	575.4	574.5	582.7	581.8	589.3	595.7	581.4	596.1
7.5°	396.8	391.9	400.0	412.8	426.5	422.0	422.0	412.0	415.4	413.3	412.6
10°	301.8	284.9	280.6	280.2	285.3	286.4	280.6	266.7	271.9	273.4	282.4
12.5°	237.4	224.4	204.5	195.5	193.2	195.1	176.0	163.9	169.6	166.2	175.0
15°	170.3	159.6	147.8	137.8	135.0	131.1	110.4	95.8	94.1	94.8	96.3
17.5°	121.5	114.2	114.2	103.5	97.8	86.2	75.7	69.3	68.7	69.3	70.4
20°	89.6	85.8	85.3	82.6	76.1	68.4	61.2	59.9	59.5	60.5	61.0
22.5°	77.2	73.2	69.7	69.5	63.5	57.1	53.7	52.0	52.2	52.6	53.7
25°	69.1	64.8	61.2	59.0	54.8	50.3	47.1	46.2	46.2	46.8	47.1
27.5°	63.3	58.0	54.8	51.8	47.9	44.1	41.3	40.6	40.2	40.6	41.7
30°	59.3	53.9	49.8	45.3	42.4	38.7	36.4	35.5	35.3	35.5	36.4
32.5°	50.7	47.5	44.3	40.2	36.6	34.2	31.7	30.2	30.2	30.6	31.4
35°	38.3	36.6	36.4	35.3	32.3	29.7	26.7	25.2	25.2	26.1	26.5
37.5°	33.8	30.6	30.2	29.7	28.4	25.0	22.2	21.0	20.7	21.4	22.2
40°	30.8	27.2	25.2	24.8	25.0	21.2	18.2	16.9	16.9	17.1	18.0
42.5°	28.4	24.2	20.7	20.3	21.2	17.8	14.8	13.5	13.5	13.5	14.5
45°	26.5	21.6	17.5	15.4	16.7	14.5	12.0	10.7	10.3	10.7	11.1
47.5°	25.2	19.7	15.4	12.4	12.4	11.6	9.6	8.1	7.7	7.9	8.6
50°	24.2	18.0	13.0	10.1	9.0	9.2	7.3	6.2	5.8	5.8	6.4
52.5°	22.5	16.3	11.3	8.6	6.8	6.2	5.3	4.5	4.3	4.5	4.9
55°	20.3	14.8	9.8	7.1	5.3	4.3	3.9	3.2	3.0	3.2	3.9
57.5°	18.0	12.4	7.9	5.6	3.6	2.8	2.6	2.1	1.7	1.9	2.4
59°	16.5	11.1	6.8	4.5	2.8	1.9	1.9	1.5	1.1	1.3	1.9
60°	15.8	10.3	5.8	3.9	2.4	1.5	1.5	1.1	0.6	0.9	1.5
62.5°	13.5	8.6	4.5	2.4	1.1	0.2	0.6	0.2	0.0	0.2	0.6
65°	11.3	6.8	3.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2
67.5°	9.4	5.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7.5	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5.1	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0	941.0
2.5°	792.3	822.9	841.7	877.2	913.6	941.6	976.7	1008.1	1021.2	1028.0
5°	611.1	653.7	689.8	744.0	794.2	855.4	917.4	990.6	1018.6	1025.9
7.5°	428.9	472.3	510.2	572.8	644.5	726.4	819.3	912.1	952.9	964.5
10°	309.7	356.1	402.4	465.0	532.0	620.7	717.4	832.3	879.4	888.3
12.5°	195.5	245.3	320.4	397.9	468.7	540.1	641.3	766.2	818.2	834.7
15°	113.4	150.6	207.3	308.2	398.3	492.8	603.2	741.4	799.6	816.5
17.5°	75.9	88.8	127.7	204.9	323.8	449.2	593.6	761.7	826.1	847.7
20°	64.0	69.7	83.4	124.9	249.4	410.3	596.1	816.9	901.4	928.3
22.5°	56.3	61.6	70.4	89.8	174.1	361.9	608.3	895.8	1004.9	1039.4
25°	49.6	55.0	62.7	74.4	117.0	306.1	635.1	1011.3	1142.0	1179.9
27.5°	44.1	49.0	55.6	65.7	90.1	243.9	658.8	1123.8	1267.2	1298.0
30°	38.9	43.0	49.4	57.1	74.9	188.0	670.8	1222.2	1358.3	1392.5
32.5°	33.8	37.6	43.9	50.1	61.6	143.3	662.5	1294.5	1446.8	1468.7
35°	28.9	32.9	38.1	43.9	53.3	115.7	620.7	1375.8	1538.6	1555.7
37.5°	24.8	28.2	33.6	38.1	48.1	92.6	570.3	1449.0	1641.5	1666.1
40°	21.0	24.4	29.7	33.8	44.3	72.9	524.7	1530.3	1749.9	1780.3
42.5°	17.1	21.2	25.9	32.5	38.1	55.6	469.5	1596.1	1831.4	1869.5
45°	13.7	18.2	23.3	32.3	33.2	42.4	416.3	1647.5	1903.5	1937.8
47.5°	10.9	15.4	22.5	30.2	27.2	33.6	385.9	1701.2	1963.4	1990.8
50°	8.8	12.8	23.5	26.5	22.7	28.4	385.0	1761.1	1994.4	2012.6
52.5°	7.1	10.5	19.9	20.3	19.3	25.0	408.1	1828.4	2026.1	2041.1
55°	6.0	8.8	13.0	15.0	17.3	22.7	425.5	1932.2	2101.6	2115.7
57.5°	4.7	7.5	10.1	12.0	15.4	20.7	427.8	2012.2	2197.2	2206.4
59°	4.1	6.4	9.0	10.7	14.1	19.5	418.2	2017.1	2203.4	2218.2
60°	3.4	5.8	7.9	10.1	13.0	18.4	407.7	1981.4	2180.3	2196.8
62.5°	2.6	4.5	5.8	8.1	10.7	15.8	358.1	1856.7	2092.0	2103.5
65°	1.7	3.2	4.3	6.0	8.3	13.7	291.8	1695.0	1955.5	1981.4
67.5°	1.1	2.4	3.4	4.5	6.8	11.6	207.9	1453.5	1764.5	1781.2
70°	0.6	1.5	2.6	3.6	5.3	9.2	123.4	1148.9	1468.0	1471.4
72.5°	0.4	1.1	1.7	2.6	4.3	8.3	59.9	748.9	1071.9	1112.7
75°	0.2	0.6	1.1	1.9	3.4	6.8	28.7	500.3	779.9	791.7
77.5°	0.0	0.2	0.6	1.3	2.6	5.3	16.7	328.6	531.8	544.0
80°	0.0	0.0	0.4	1.1	1.9	3.4	10.1	193.8	322.1	328.1
82.5°	0.0	0.0	0.2	0.9	1.3	2.6	5.1	85.1	210.9	213.0
85°	0.0	0.0	0.2	0.9	1.1	1.7	1.9	11.6	93.7	95.4
87.5°	0.0	0.0	0.2	1.1	1.1	1.1	1.1	0.6	7.9	9.8
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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