

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: P450579

Luminaire Tested: **GALN-SA1B-827-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450579
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-SA1B-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA 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: 3040 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

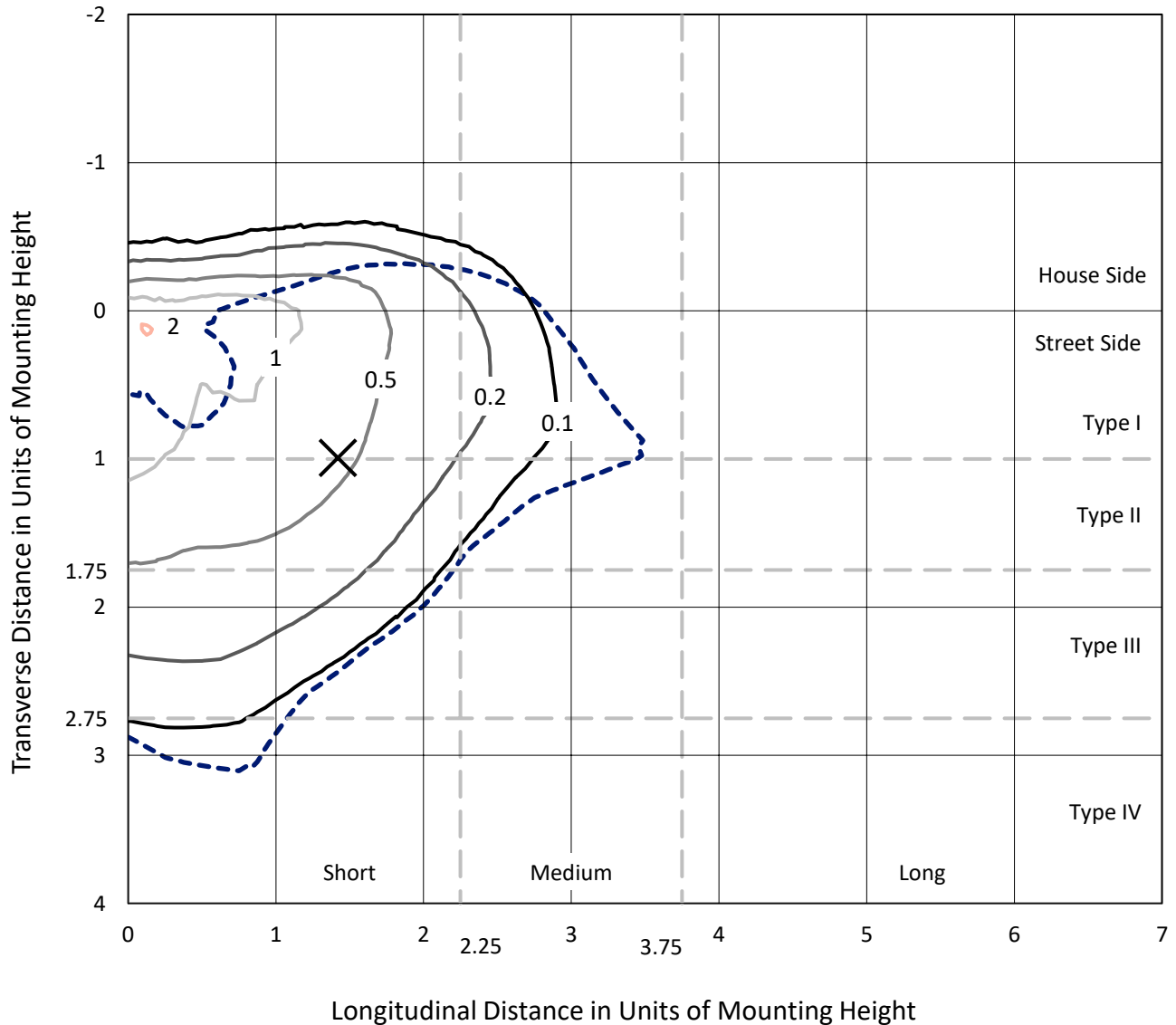
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

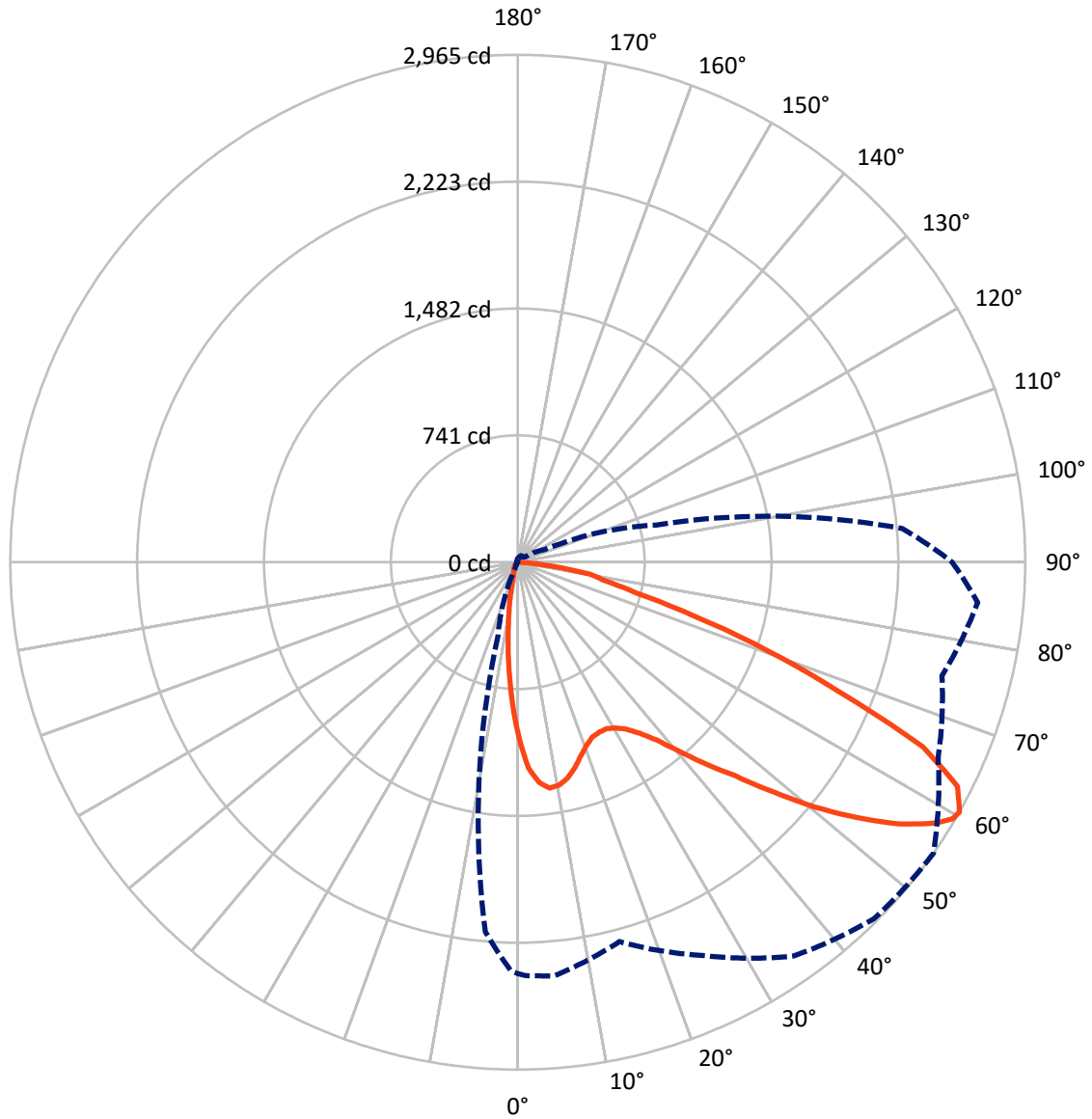
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	451.2	0.0	451.2
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	2588.8	0.0	2588.8
	% Fixture	85.2	0.0	85.2
Total	Lumens	3040.0	0.0	3040.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	2.5
10°-20°	150.1	4.9
20°-30°	222.2	7.3
30°-40°	331.2	10.9
40°-50°	485.0	16.0
50°-60°	700.2	23.0
60°-70°	736.6	24.2
70°-80°	303.0	10.0
80°-90°	35.5	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°	3040.0	100.0
0°-180°	3040.0	100.0



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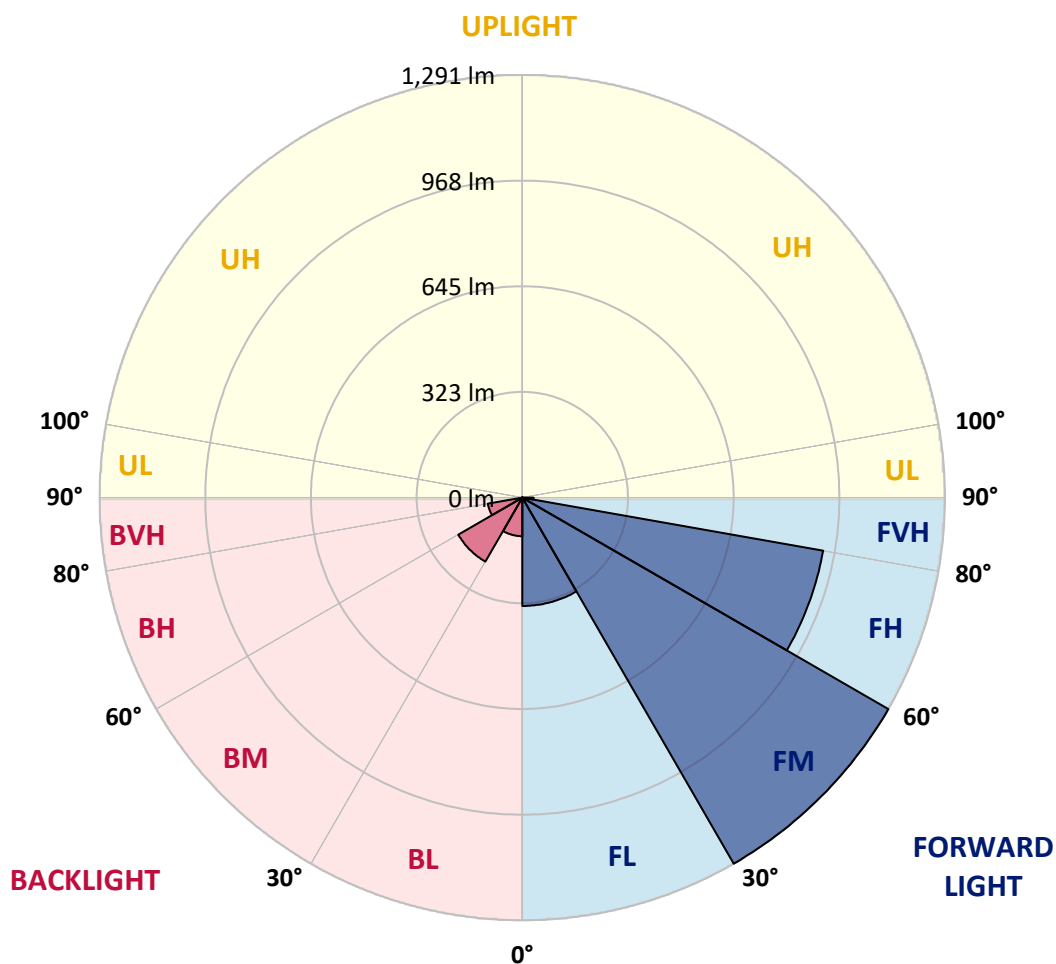
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	330.8	10.9			
FM (30°-60°)	1290.8	42.5			
FH (60°-80°)	932.8	30.7			G1/1800
FVH (80°-90°)	34.4	1.1			G1/100
BL (0°-30°)	117.7	3.9	B1/500		
BM (30°-60°)	225.6	7.4	B1/1000		
BH (60°-80°)	106.8	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: 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°	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3
2.5°	1124.6	1122.7	1139.3	1166.5	1193.8	1208.1	1205.3	1204.1	1181.4	1164.8	1130.0
5°	1122.2	1131.8	1161.5	1235.0	1290.7	1317.6	1325.6	1292.1	1247.9	1183.8	1104.7
7.5°	1055.1	1067.0	1115.4	1230.3	1329.3	1387.8	1385.7	1332.1	1240.9	1141.7	1028.9
10°	971.8	985.8	1042.7	1182.1	1310.6	1387.8	1392.0	1324.2	1210.7	1083.4	964.8
12.5°	913.0	929.7	992.6	1137.2	1262.4	1338.4	1343.4	1294.2	1188.0	1060.9	929.9
15°	893.2	908.8	972.7	1114.5	1211.1	1252.1	1250.9	1245.8	1179.1	1066.3	931.8
17.5°	927.3	940.2	1012.3	1124.8	1163.2	1159.0	1165.1	1189.9	1181.0	1111.5	990.7
20°	1015.5	1028.6	1106.1	1156.4	1126.4	1099.8	1102.6	1144.0	1198.3	1196.4	1082.9
22.5°	1137.0	1159.2	1229.4	1217.7	1121.5	1063.0	1057.2	1111.0	1227.8	1294.2	1207.4
25°	1290.7	1313.2	1367.9	1315.5	1145.6	1054.4	1049.0	1100.9	1263.6	1389.7	1347.6
27.5°	1419.9	1437.0	1491.5	1410.7	1181.2	1058.1	1049.2	1102.3	1292.6	1470.9	1465.7
30°	1523.3	1535.9	1568.0	1455.2	1211.9	1074.5	1064.2	1122.9	1305.4	1510.4	1561.4
32.5°	1606.6	1627.9	1638.0	1502.7	1255.8	1105.4	1087.8	1162.5	1336.8	1559.3	1661.8
35°	1701.8	1726.4	1713.5	1548.1	1313.9	1153.6	1132.1	1226.6	1384.3	1604.5	1778.3
37.5°	1822.6	1850.9	1800.6	1595.8	1375.2	1226.1	1216.1	1316.7	1456.4	1669.1	1903.3
40°	1947.5	1963.9	1885.0	1653.9	1450.5	1331.7	1341.2	1450.5	1550.7	1746.5	2036.2
42.5°	2045.1	2060.5	1971.9	1702.5	1527.5	1456.8	1496.9	1612.0	1658.8	1825.8	2135.4
45°	2119.7	2132.8	2032.0	1755.7	1631.4	1638.2	1713.8	1778.3	1767.1	1874.3	2211.9
47.5°	2177.8	2189.0	2078.3	1812.7	1787.0	1860.0	1975.6	2003.0	1879.4	1926.7	2281.2
50°	2201.6	2204.9	2092.8	1885.5	1963.7	2142.7	2263.2	2246.6	2008.1	1985.0	2354.9
52.5°	2232.8	2232.1	2134.3	1954.8	2129.8	2395.4	2515.7	2478.0	2153.7	2072.2	2437.7
55°	2314.4	2315.4	2222.9	2053.1	2271.4	2599.4	2728.1	2700.7	2307.2	2219.7	2534.4
57.5°	2413.6	2417.1	2349.1	2167.9	2406.6	2747.3	2886.8	2876.2	2514.7	2383.7	2625.6
59°	2426.5	2433.5	2408.7	2248.9	2486.9	2792.7	2941.1	2951.4	2625.9	2491.8	2675.0
60°	2403.1	2414.8	2426.0	2294.8	2533.9	2809.1	2944.3	2964.5	2709.4	2565.3	2697.5
62.5°	2301.1	2319.6	2376.0	2435.9	2592.6	2758.1	2839.7	2881.9	2812.8	2758.3	2699.6
65°	2167.5	2177.1	2258.5	2460.9	2478.7	2519.9	2545.1	2599.2	2688.6	2832.7	2602.9
67.5°	1948.5	1976.8	2076.5	2315.6	2142.4	2093.8	2087.5	2033.6	2265.8	2655.4	2364.7
70°	1609.6	1622.3	1745.1	1898.4	1616.9	1542.0	1572.0	1551.8	1756.4	2285.9	1903.3
72.5°	1217.2	1245.8	1365.8	1513.2	1100.2	1003.1	1085.7	1078.2	1319.3	1837.1	1307.6
75°	866.0	884.5	1037.5	1184.2	770.5	652.8	682.6	710.4	921.0	1450.5	772.6
77.5°	595.0	611.0	725.8	783.2	562.1	538.4	492.6	519.5	603.5	860.6	420.5
80°	358.9	358.2	433.8	447.9	391.5	454.6	381.4	428.2	364.8	368.3	162.9
82.5°	233.1	230.7	265.3	289.2	217.8	229.1	153.7	221.6	237.7	102.7	51.5
85°	104.4	108.8	127.5	168.2	95.5	50.8	31.4	68.1	101.3	51.7	0.0
87.5°	10.8	8.4	22.5	40.9	13.1	1.4	4.7	2.3	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°	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3
2.5°	1113.8	1100.2	1059.8	1021.8	989.3	949.5	923.8	883.3	858.8	851.3	852.4
5°	1069.1	1030.0	953.1	891.5	823.0	783.9	724.4	667.3	636.5	625.0	619.8
7.5°	975.5	933.6	840.7	744.1	670.6	602.1	557.8	507.5	473.1	444.8	439.9
10°	906.0	851.0	735.9	632.0	574.0	522.5	478.3	428.0	387.5	355.2	346.3
12.5°	864.4	802.8	674.4	587.3	532.3	479.5	421.9	363.6	322.2	287.3	271.2
15°	856.9	785.5	657.1	555.3	487.4	423.5	347.0	284.1	241.5	208.5	198.4
17.5°	902.0	816.6	654.5	521.8	428.7	338.1	258.6	206.4	158.4	139.9	132.7
20°	982.5	871.6	654.2	483.0	368.3	260.4	181.6	134.5	115.1	106.2	102.0
22.5°	1092.3	946.5	666.6	449.5	305.6	192.1	129.6	107.2	95.9	88.7	87.0
25°	1226.4	1057.4	697.1	426.8	257.6	150.7	106.9	91.7	82.4	79.1	77.7
27.5°	1345.5	1163.6	730.5	403.4	223.2	133.4	99.2	84.0	76.5	73.9	71.8
30°	1448.2	1260.1	746.7	372.5	195.6	122.1	100.6	89.9	80.0	72.3	68.8
32.5°	1533.8	1334.0	757.2	344.4	172.2	99.9	79.6	69.5	65.1	62.2	59.9
35°	1641.0	1414.0	750.9	328.5	160.3	91.0	72.5	59.9	52.4	46.8	44.5
37.5°	1753.3	1494.0	739.9	315.4	154.9	84.5	69.0	56.9	48.7	42.8	39.8
40°	1869.6	1568.2	727.0	303.3	150.0	80.3	66.9	54.3	46.1	39.8	36.5
42.5°	1976.1	1640.5	721.9	295.3	142.0	81.0	65.3	53.1	43.5	37.0	34.2
45°	2062.2	1709.1	728.9	291.1	133.4	79.8	65.8	51.7	41.4	35.1	32.3
47.5°	2154.1	1806.0	751.6	286.9	125.0	74.2	69.3	51.5	40.5	33.9	30.9
50°	2261.1	1930.0	803.5	276.6	114.7	68.1	73.7	51.2	39.3	32.5	29.5
52.5°	2403.6	2070.8	857.1	258.6	99.7	62.2	70.4	50.5	37.0	30.9	27.8
55°	2531.6	2219.2	902.5	237.3	80.7	53.8	63.4	47.5	33.0	28.1	25.3
57.5°	2584.5	2303.0	901.1	207.8	64.6	47.3	52.2	43.5	28.8	24.8	22.5
59°	2565.0	2292.4	870.9	186.0	59.0	43.8	43.3	43.1	26.9	22.5	20.6
60°	2537.7	2254.1	838.4	175.3	55.5	41.4	39.8	42.6	25.3	21.1	19.2
62.5°	2432.8	2094.9	730.5	157.0	50.8	35.1	31.8	36.0	22.5	18.3	16.6
65°	2281.0	1850.4	618.4	151.9	49.4	29.0	26.4	25.7	19.2	15.4	14.0
67.5°	1984.7	1565.9	501.0	148.4	49.8	24.3	23.2	19.4	15.9	12.9	11.9
70°	1589.0	1221.0	410.2	144.4	50.3	19.9	19.4	15.4	12.9	10.8	9.8
72.5°	965.5	723.7	322.9	125.4	48.9	15.9	17.3	11.7	9.4	7.7	7.3
75°	596.9	495.4	200.3	97.6	32.3	11.7	12.2	7.3	6.3	4.9	4.9
77.5°	345.8	312.8	71.6	35.1	14.3	7.0	5.4	3.7	3.5	2.1	2.1
80°	143.4	114.9	24.8	11.9	7.7	3.3	1.2	0.2	0.0	0.0	0.0
82.5°	41.9	37.2	6.8	5.4	2.3	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°	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3
2.5°	832.5	824.8	821.3	833.2	822.3	836.3	825.5	830.2	844.0	850.1	865.8
5°	623.1	615.2	611.4	629.4	628.5	637.4	636.5	644.7	651.7	636.0	652.1
7.5°	434.1	428.7	437.6	451.6	466.6	461.7	461.7	450.7	454.4	452.1	451.4
10°	330.2	311.7	307.0	306.5	312.1	313.3	307.0	291.8	297.4	299.0	308.9
12.5°	259.7	245.5	223.7	213.9	211.3	213.4	192.6	179.2	185.6	181.8	191.4
15°	186.3	174.6	161.7	150.7	147.6	143.4	120.7	104.8	103.0	103.7	105.3
17.5°	132.9	125.0	125.0	113.3	106.9	94.3	82.8	75.8	75.1	75.8	77.0
20°	98.0	93.8	93.4	90.3	83.3	74.9	66.9	65.5	65.1	66.2	66.7
22.5°	84.5	80.0	76.3	76.0	69.5	62.5	58.7	56.9	57.1	57.6	58.7
25°	75.6	70.9	66.9	64.6	59.9	55.0	51.5	50.5	50.5	51.2	51.5
27.5°	69.3	63.4	59.9	56.6	52.4	48.2	45.2	44.5	44.0	44.5	45.6
30°	64.8	59.0	54.5	49.6	46.3	42.4	39.8	38.8	38.6	38.8	39.8
32.5°	55.5	51.9	48.4	44.0	40.0	37.4	34.6	33.0	33.0	33.5	34.4
35°	41.9	40.0	39.8	38.6	35.3	32.5	29.2	27.6	27.6	28.5	29.0
37.5°	37.0	33.5	33.0	32.5	31.1	27.4	24.3	22.9	22.7	23.4	24.3
40°	33.7	29.7	27.6	27.1	27.4	23.2	19.9	18.5	18.5	18.7	19.7
42.5°	31.1	26.4	22.7	22.2	23.2	19.4	16.1	14.7	14.7	14.7	15.9
45°	29.0	23.6	19.2	16.8	18.3	15.9	13.1	11.7	11.2	11.7	12.2
47.5°	27.6	21.5	16.8	13.6	13.6	12.6	10.5	8.9	8.4	8.7	9.4
50°	26.4	19.7	14.3	11.0	9.8	10.1	8.0	6.8	6.3	6.3	7.0
52.5°	24.6	17.8	12.4	9.4	7.5	6.8	5.8	4.9	4.7	4.9	5.4
55°	22.2	16.1	10.8	7.7	5.8	4.7	4.2	3.5	3.3	3.5	4.2
57.5°	19.7	13.6	8.7	6.1	4.0	3.0	2.8	2.3	1.9	2.1	2.6
59°	18.0	12.2	7.5	4.9	3.0	2.1	2.1	1.6	1.2	1.4	2.1
60°	17.3	11.2	6.3	4.2	2.6	1.6	1.6	1.2	0.7	0.9	1.6
62.5°	14.7	9.4	4.9	2.6	1.2	0.2	0.7	0.2	0.0	0.2	0.7
65°	12.4	7.5	3.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2
67.5°	10.3	5.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8.2	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.4	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°	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3
2.5°	866.7	900.2	920.8	959.6	999.4	1030.0	1068.4	1102.8	1117.1	1124.6
5°	668.5	715.1	754.6	813.8	868.8	935.7	1003.6	1083.6	1114.3	1122.2
7.5°	469.2	516.7	558.1	626.6	705.0	794.6	896.2	997.7	1042.4	1055.1
10°	338.8	389.6	440.1	508.7	581.9	679.0	784.8	910.5	961.9	971.8
12.5°	213.9	268.4	350.5	435.2	512.7	590.8	701.5	838.2	895.0	913.0
15°	124.0	164.7	226.7	337.2	435.7	539.1	659.9	811.0	874.7	893.2
17.5°	83.1	97.1	139.7	224.2	354.3	491.4	649.3	833.2	903.7	927.3
20°	70.0	76.3	91.3	136.7	272.8	448.8	652.1	893.6	986.0	1015.5
22.5°	61.5	67.4	77.0	98.3	190.5	395.9	665.5	980.0	1099.3	1137.0
25°	54.3	60.1	68.6	81.4	128.0	334.8	694.7	1106.3	1249.3	1290.7
27.5°	48.2	53.6	60.8	71.8	98.5	266.8	720.7	1229.4	1386.2	1419.9
30°	42.6	47.0	54.1	62.5	81.9	205.7	733.8	1337.0	1485.9	1523.3
32.5°	37.0	41.2	48.0	54.8	67.4	156.8	724.7	1416.1	1582.7	1606.6
35°	31.6	36.0	41.7	48.0	58.3	126.6	679.0	1505.0	1683.1	1701.8
37.5°	27.1	30.9	36.7	41.7	52.6	101.3	623.8	1585.1	1795.7	1822.6
40°	22.9	26.7	32.5	37.0	48.4	79.8	574.0	1674.0	1914.3	1947.5
42.5°	18.7	23.2	28.3	35.6	41.7	60.8	513.6	1746.1	2003.4	2045.1
45°	15.0	19.9	25.5	35.3	36.3	46.3	455.4	1802.2	2082.3	2119.7
47.5°	11.9	16.8	24.6	33.0	29.7	36.7	422.1	1860.9	2147.8	2177.8
50°	9.6	14.0	25.7	29.0	24.8	31.1	421.2	1926.5	2181.8	2201.6
52.5°	7.7	11.5	21.8	22.2	21.1	27.4	446.5	2000.2	2216.4	2232.8
55°	6.6	9.6	14.3	16.4	19.0	24.8	465.4	2113.7	2299.0	2314.4
57.5°	5.1	8.2	11.0	13.1	16.8	22.7	468.0	2201.2	2403.6	2413.6
59°	4.4	7.0	9.8	11.7	15.4	21.3	457.5	2206.6	2410.4	2426.5
60°	3.7	6.3	8.7	11.0	14.3	20.1	446.0	2167.5	2385.1	2403.1
62.5°	2.8	4.9	6.3	8.9	11.7	17.3	391.7	2031.1	2288.5	2301.1
65°	1.9	3.5	4.7	6.6	9.1	15.0	319.2	1854.2	2139.2	2167.5
67.5°	1.2	2.6	3.7	4.9	7.5	12.6	227.4	1590.0	1930.2	1948.5
70°	0.7	1.6	2.8	4.0	5.8	10.1	135.0	1256.8	1605.9	1609.6
72.5°	0.5	1.2	1.9	2.8	4.7	9.1	65.5	819.2	1172.5	1217.2
75°	0.2	0.7	1.2	2.1	3.7	7.5	31.4	547.3	853.1	866.0
77.5°	0.0	0.2	0.7	1.4	2.8	5.8	18.3	359.4	581.7	595.0
80°	0.0	0.0	0.5	1.2	2.1	3.7	11.0	212.0	352.4	358.9
82.5°	0.0	0.0	0.2	0.9	1.4	2.8	5.6	93.1	230.7	233.1
85°	0.0	0.0	0.2	0.9	1.2	1.9	2.1	12.6	102.5	104.4
87.5°	0.0	0.0	0.2	1.2	1.2	1.2	1.2	0.7	8.7	10.8
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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