

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: P526311

Luminaire Tested: **GALN-SA1B-730-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526311
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-SA1B-730-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS 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: 2899 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

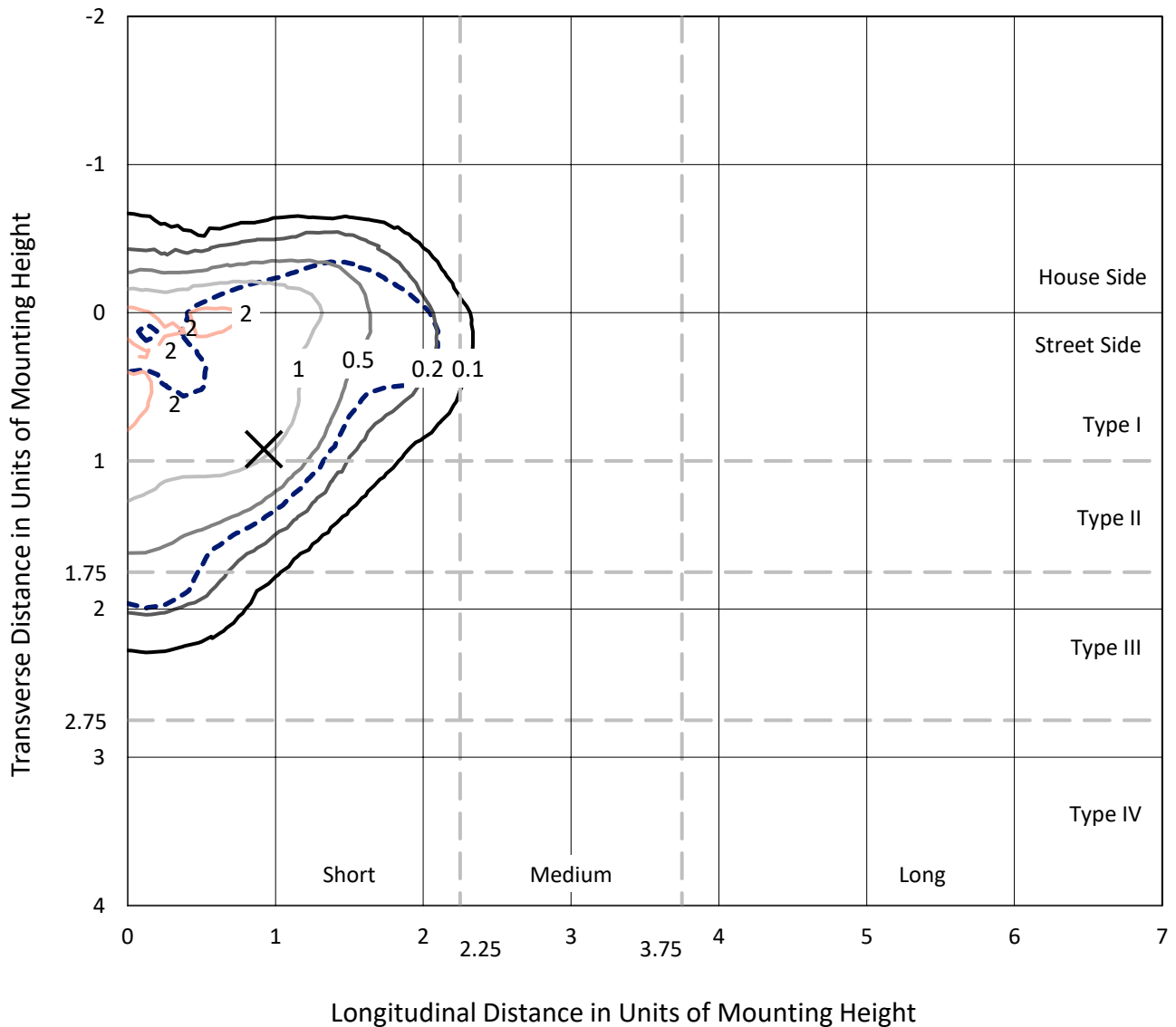
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

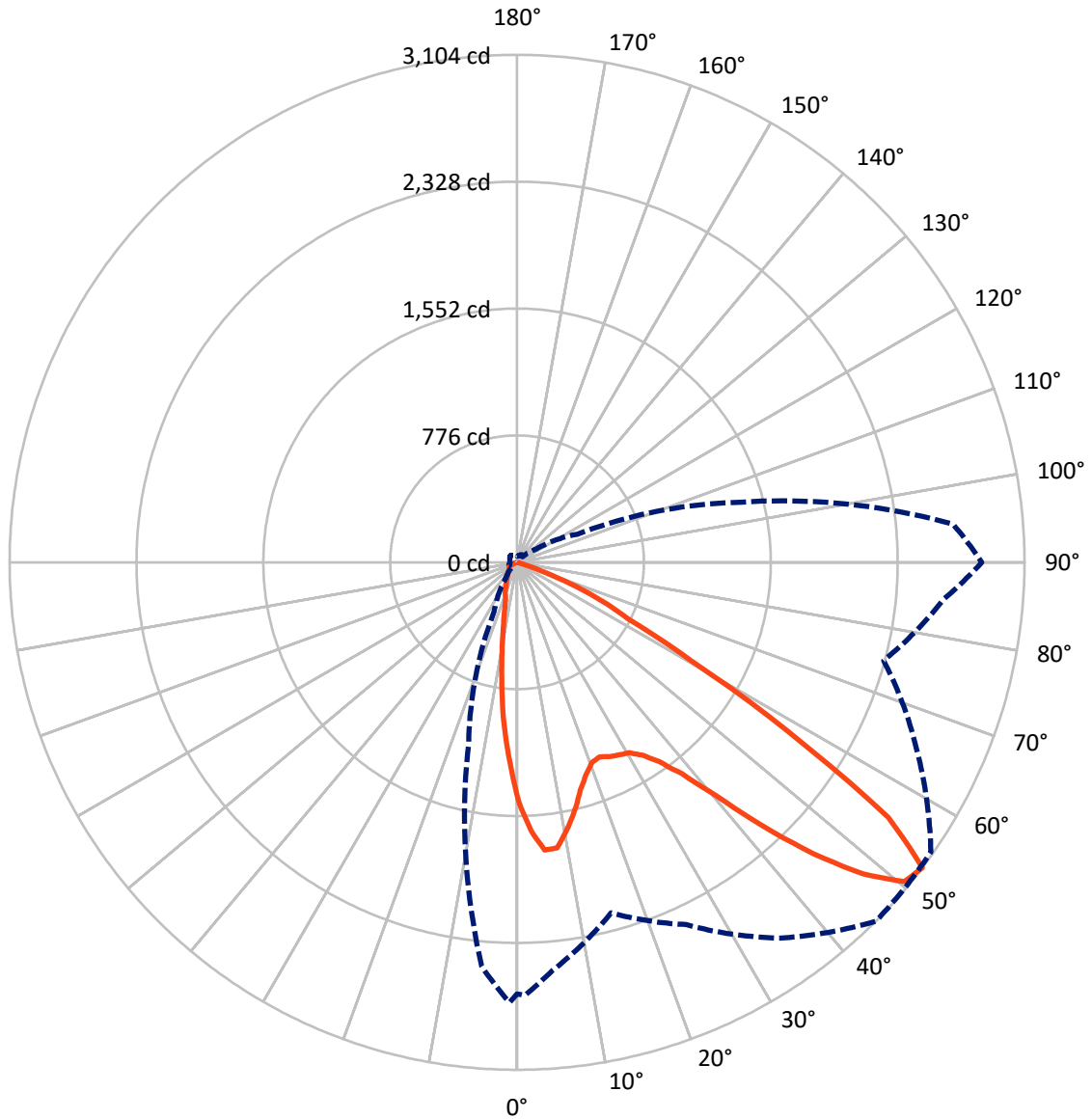
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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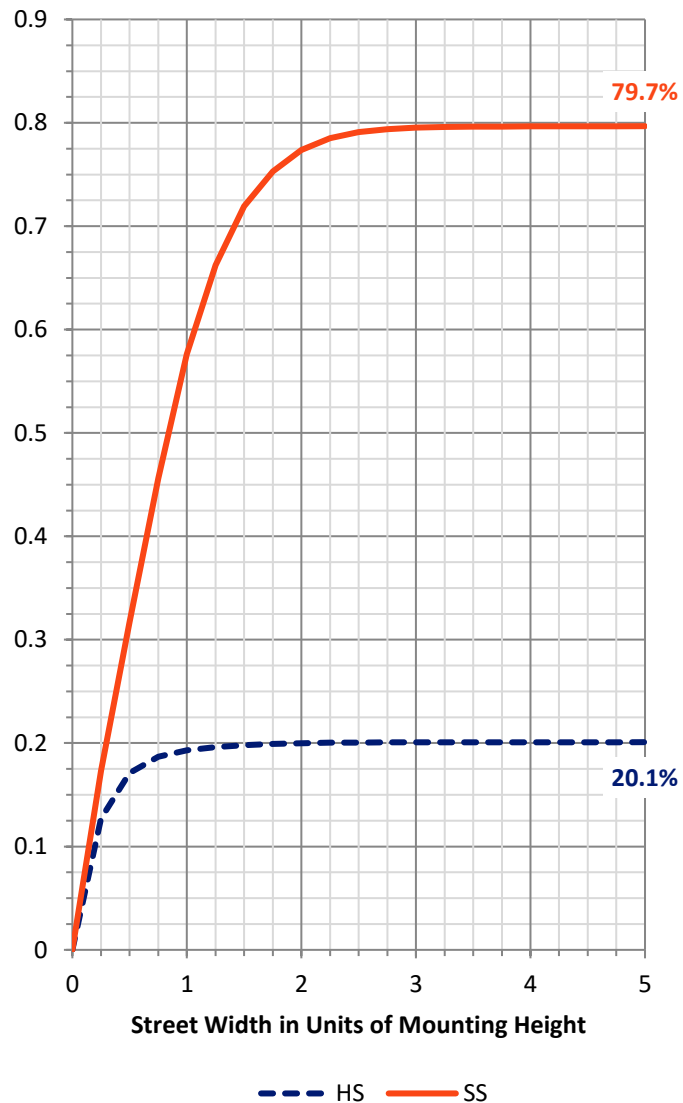
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	588.3	0.0	588.3
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	2310.7	0.0	2310.7
	% Fixture	79.7	0.0	79.7
Total	Lumens	2899.0	0.0	2899.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	3.7
10°-20°	211.5	7.3
20°-30°	321.9	11.1
30°-40°	481.1	16.6
40°-50°	685.1	23.6
50°-60°	736.5	25.4
60°-70°	326.3	11.3
70°-80°	26.4	0.9
80°-90°	3.1	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°	2899.0	100.0
0°-180°	2899.0	100.0

Coefficient of Utilization

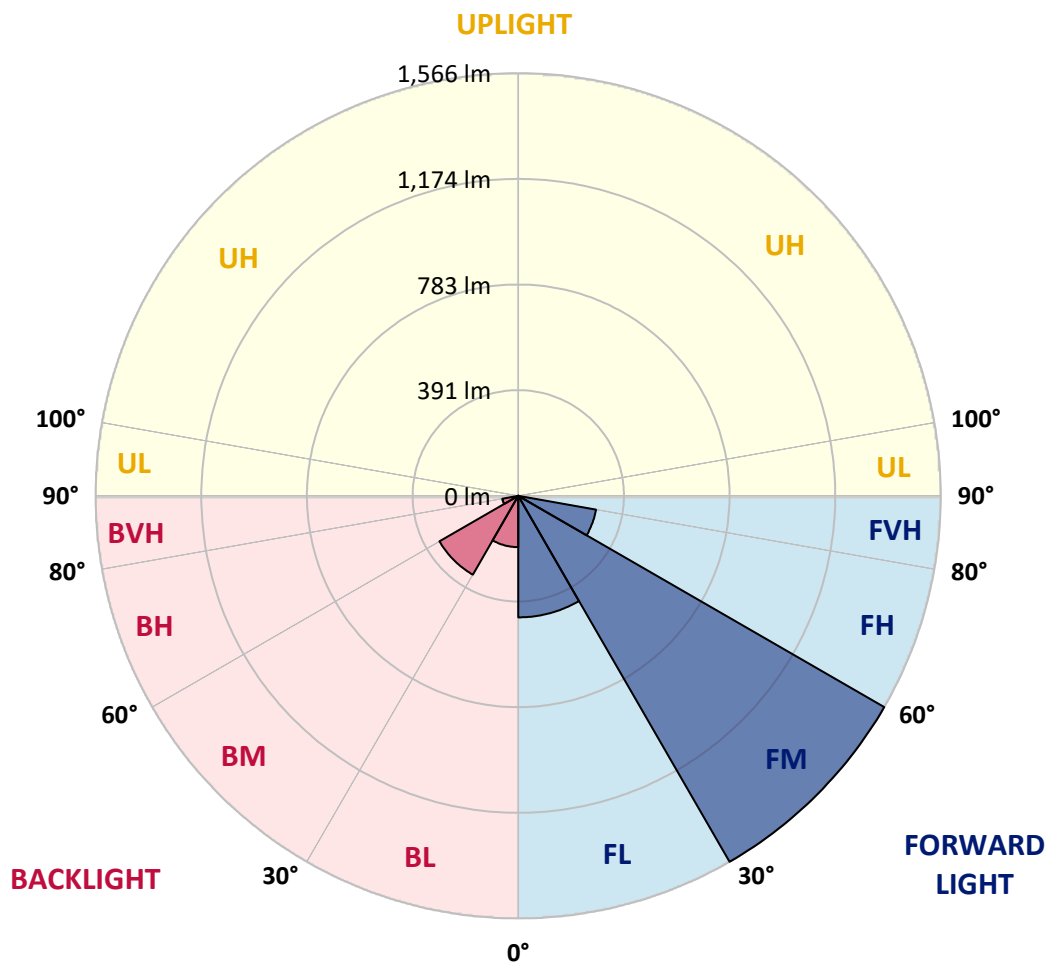


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	450.3	15.5			
FM (30°-60°)	1565.6	54.0			
FH (60°-80°)	292.5	10.1			G0/660
FVH (80°-90°)	2.3	0.1			G0/10
BL (0°-30°)	190.3	6.6	B1/500		
BM (30°-60°)	337.1	11.6	B1/1000		
BH (60°-80°)	60.2	2.1	B0/110		G0/110
BVH (80°-90°)	0.8	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°	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9
2.5°	1555.5	1560.0	1585.1	1616.5	1633.0	1670.6	1644.4	1651.2	1637.0	1586.8	1547.5
5°	1508.1	1507.6	1539.5	1617.0	1690.6	1765.3	1767.6	1727.6	1657.5	1580.5	1470.5
7.5°	1365.6	1387.8	1420.9	1544.6	1680.9	1736.8	1763.6	1716.8	1609.1	1499.0	1379.8
10°	1257.8	1269.2	1325.1	1474.5	1574.3	1649.0	1665.5	1638.7	1556.0	1418.6	1285.2
12.5°	1195.7	1201.4	1266.9	1392.4	1497.9	1553.2	1561.2	1573.7	1514.4	1385.5	1225.3
15°	1196.2	1200.8	1289.2	1394.1	1435.7	1420.9	1447.1	1446.6	1472.2	1379.3	1275.5
17.5°	1282.3	1287.5	1367.3	1419.2	1400.9	1366.2	1364.4	1390.7	1444.8	1457.4	1351.3
20°	1430.6	1442.6	1501.3	1498.4	1395.8	1325.7	1306.3	1326.2	1452.3	1523.5	1504.1
22.5°	1630.1	1646.7	1687.7	1609.1	1419.2	1298.3	1292.0	1330.8	1501.3	1671.2	1677.5
25°	1861.6	1889.6	1909.5	1808.6	1502.4	1345.6	1316.0	1382.7	1567.4	1831.4	1898.1
27.5°	2015.0	2044.1	2039.5	1895.3	1558.3	1358.2	1333.1	1395.2	1625.0	1869.6	2013.3
30°	2134.8	2152.4	2184.4	1942.0	1614.2	1393.5	1350.8	1448.3	1643.8	1935.8	2152.4
32.5°	2274.5	2286.4	2288.7	2024.7	1700.3	1438.0	1405.5	1514.4	1727.1	1999.1	2275.6
35°	2415.3	2433.0	2395.9	2126.8	1753.3	1520.7	1496.7	1629.0	1793.8	2064.6	2411.3
37.5°	2568.1	2577.2	2491.7	2169.0	1829.1	1655.2	1642.1	1752.7	1909.5	2183.2	2561.8
40°	2696.4	2704.9	2593.8	2220.9	1909.0	1843.4	1877.0	1988.8	2066.9	2260.2	2637.1
42.5°	2767.7	2787.6	2628.0	2192.3	2069.2	2056.6	2206.0	2245.4	2249.4	2281.9	2704.4
45°	2787.0	2777.9	2571.5	2215.7	2209.5	2407.3	2543.0	2594.9	2430.7	2321.8	2721.5
47.5°	2697.5	2709.5	2488.3	2195.2	2393.6	2673.0	2848.6	2945.0	2565.8	2287.0	2679.3
50°	2625.1	2609.7	2461.5	2180.4	2443.2	2798.5	3069.3	3091.0	2690.1	2329.8	2633.1
52.5°	2639.4	2649.1	2504.2	2219.7	2444.4	2805.9	3103.5	3088.7	2694.1	2320.1	2616.6
55°	2669.6	2626.8	2486.0	2133.0	2280.7	2598.9	2754.5	2731.7	2486.6	2216.9	2576.1
57.5°	2303.5	2369.7	2285.9	1904.4	1871.9	1958.0	1955.2	2025.3	1854.8	1907.8	2345.2
60°	1869.6	1881.0	1912.4	1629.0	1295.5	1265.8	1224.7	1180.3	1248.1	1631.3	2133.0
62.5°	1644.4	1630.7	1742.5	1481.9	914.6	765.8	758.9	786.3	963.0	1556.0	2000.8
65°	1195.1	1212.2	1293.2	1150.1	686.5	584.4	574.2	655.1	779.4	1247.0	1526.9
67.5°	729.8	762.9	770.3	709.3	465.8	370.0	355.2	428.8	562.8	806.8	895.2
70°	337.0	376.9	414.5	387.2	269.7	152.2	143.7	180.2	284.0	464.1	475.0
72.5°	102.1	102.6	143.7	150.0	87.2	34.2	30.2	39.9	96.4	153.4	161.4
75°	7.4	8.0	19.4	22.2	16.5	8.6	9.1	10.8	20.5	34.2	25.7
77.5°	0.6	0.6	0.6	2.9	5.1	5.7	7.4	8.6	10.8	12.5	11.4
80°	0.6	0.0	0.6	2.3	4.0	5.7	6.8	8.0	8.6	9.7	8.6
82.5°	0.0	0.0	0.0	1.7	4.0	5.7	6.3	8.6	9.7	11.4	9.7
85°	0.0	0.0	0.0	1.7	4.0	6.3	5.7	2.9	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°	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9
2.5°	1554.3	1532.1	1481.3	1455.7	1395.2	1386.7	1327.4	1317.7	1297.7	1286.9	1260.7
5°	1422.0	1395.2	1312.6	1243.0	1162.0	1105.6	1062.2	1022.9	1000.1	979.0	988.7
7.5°	1314.3	1236.2	1144.4	1028.0	934.5	874.1	807.9	753.8	721.8	700.2	705.3
10°	1201.4	1150.6	1022.9	892.3	779.4	736.7	684.8	643.2	598.1	559.3	541.1
12.5°	1166.0	1090.8	930.5	797.7	712.2	670.5	611.2	563.3	505.8	458.4	441.9
15°	1172.3	1099.9	905.4	763.5	662.6	590.7	520.0	460.7	397.4	364.3	347.2
17.5°	1274.4	1148.9	922.0	727.6	593.6	493.8	406.5	331.3	284.0	249.7	242.3
20°	1399.8	1255.0	957.3	701.3	537.1	392.9	297.1	232.1	192.7	187.0	185.3
22.5°	1583.4	1428.3	1033.2	683.6	468.1	306.2	203.6	168.8	157.9	156.8	157.4
25°	1840.0	1645.5	1115.8	668.8	416.2	236.1	166.5	143.1	139.7	138.0	140.8
27.5°	1951.2	1776.7	1159.7	636.9	368.9	212.7	164.2	142.0	132.3	129.4	131.1
30°	2088.6	1863.9	1228.7	582.2	299.3	175.0	153.4	154.5	150.0	135.7	131.1
32.5°	2271.0	1972.8	1263.5	543.4	267.4	144.8	112.3	103.2	115.2	117.5	121.4
35°	2387.9	2083.4	1281.2	520.6	250.9	123.7	95.2	86.7	83.8	84.4	86.7
37.5°	2605.2	2232.8	1303.4	496.6	238.3	107.8	86.1	78.1	74.1	74.1	76.4
40°	2735.2	2351.4	1333.7	483.5	225.8	98.1	78.1	71.3	67.9	67.9	69.0
42.5°	2767.7	2410.2	1323.4	479.0	211.5	95.8	71.3	66.1	62.1	61.6	61.0
45°	2825.8	2499.7	1325.1	473.8	196.7	87.2	67.3	61.6	55.9	55.3	54.7
47.5°	2889.7	2564.1	1328.5	453.9	182.5	73.0	70.1	57.0	50.2	49.0	49.0
50°	2834.9	2615.4	1358.2	433.9	164.2	59.3	69.0	53.6	44.5	42.8	43.3
52.5°	2841.8	2675.9	1420.9	406.0	141.4	47.3	55.9	50.7	40.5	37.6	38.2
55°	2732.3	2612.0	1429.4	376.3	110.6	36.5	42.8	44.5	34.2	33.1	33.1
57.5°	2352.0	2211.7	1261.2	305.0	73.0	30.2	30.8	38.8	29.6	28.5	29.1
60°	2012.7	1775.5	1014.9	201.3	45.6	23.9	22.2	39.3	26.2	25.7	27.4
62.5°	1834.8	1459.1	769.7	124.9	31.4	18.2	15.4	31.9	22.8	22.8	25.1
65°	1325.7	980.1	447.6	65.6	22.2	14.3	11.4	18.2	18.8	19.4	20.5
67.5°	821.1	494.9	188.7	31.9	14.8	9.7	7.4	11.4	12.5	12.5	13.7
70°	405.4	197.3	62.7	18.2	11.4	8.0	5.1	6.3	6.3	5.7	6.3
72.5°	125.4	59.3	16.0	11.4	8.0	5.1	2.9	2.3	1.1	0.0	0.6
75°	14.3	11.4	10.3	8.0	5.1	2.3	0.6	0.0	0.0	0.0	0.0
77.5°	8.6	9.7	9.7	8.0	5.1	1.7	0.0	0.0	0.0	0.0	0.0
80°	6.8	7.4	8.0	7.4	4.6	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	8.6	9.7	10.8	9.7	6.3	2.9	1.1	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	1.7	0.6	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°	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9
2.5°	1249.8	1237.3	1255.0	1228.7	1228.2	1228.7	1221.3	1214.5	1225.3	1254.4	1257.3
5°	953.9	980.7	989.3	1017.2	1001.8	979.0	983.6	968.2	1005.8	1022.3	1009.2
7.5°	694.5	692.8	750.4	753.8	761.2	761.8	760.6	730.4	699.6	706.5	727.0
10°	538.8	509.7	537.7	534.8	553.1	547.9	555.4	522.9	533.7	533.7	546.8
12.5°	439.0	408.2	403.1	395.7	403.1	406.0	408.8	402.5	420.8	429.3	438.5
15°	335.3	318.2	313.6	299.3	301.6	309.6	316.5	319.3	313.6	326.7	327.9
17.5°	243.5	242.9	245.7	245.2	242.9	241.2	240.6	233.2	230.9	232.1	236.6
20°	184.7	189.3	199.0	208.7	213.8	207.5	199.0	186.4	181.3	182.5	183.0
22.5°	157.9	164.8	177.9	188.7	193.9	182.5	167.1	156.2	153.9	153.4	152.8
25°	143.1	151.1	160.8	164.2	163.6	156.8	145.4	140.8	139.7	138.6	133.4
27.5°	135.1	138.0	139.7	143.7	145.4	140.8	138.0	131.1	130.0	130.0	126.6
30°	130.6	128.9	131.1	128.3	130.6	127.2	127.7	127.7	124.9	126.0	126.0
32.5°	121.4	122.0	122.0	116.3	118.0	114.0	118.0	121.4	122.0	122.6	127.2
35°	88.9	99.2	104.3	104.3	106.1	103.2	102.6	98.6	93.5	88.4	86.1
37.5°	78.1	82.1	88.9	92.9	95.8	93.5	88.4	82.1	79.3	77.0	74.7
40°	69.6	73.0	77.5	82.1	87.8	85.0	77.0	74.1	70.7	70.7	68.4
42.5°	62.7	64.4	67.3	74.1	80.4	74.7	69.0	66.7	65.0	64.4	63.9
45°	56.4	57.0	59.9	65.6	73.0	67.3	61.6	58.7	59.3	59.9	59.3
47.5°	50.7	51.9	53.6	60.4	65.0	62.1	55.9	54.2	54.2	54.2	54.7
50°	43.9	46.8	50.2	55.9	59.3	57.6	52.5	50.2	49.0	49.0	49.6
52.5°	39.3	41.6	46.2	53.0	57.6	54.7	49.6	46.2	43.9	43.3	44.5
55°	34.2	38.2	45.6	50.7	57.0	54.2	48.5	44.5	40.5	39.9	39.9
57.5°	30.8	37.1	43.9	50.2	55.3	53.0	48.5	43.3	38.2	37.6	37.6
60°	29.1	35.9	42.8	48.5	55.3	51.9	47.9	42.2	36.5	36.5	35.9
62.5°	27.4	33.6	40.5	46.2	53.0	50.2	46.2	40.5	34.8	34.8	33.6
65°	22.8	29.1	33.6	38.8	46.2	43.3	39.3	35.4	30.8	29.6	30.2
67.5°	16.0	20.0	24.5	29.6	34.2	33.1	31.4	28.5	24.5	23.9	23.4
70°	8.0	10.8	14.8	20.0	23.9	22.8	21.7	19.4	17.1	16.5	16.5
72.5°	1.1	3.4	6.3	9.1	12.5	13.1	12.5	12.0	11.4	10.8	11.4
75°	0.0	0.0	0.0	2.3	5.1	6.3	7.4	8.6	8.6	7.4	9.1
77.5°	0.0	0.0	0.0	0.0	0.6	2.9	5.7	7.4	9.1	8.0	10.8
80°	0.0	0.0	0.0	0.0	0.6	3.4	5.7	8.0	9.1	8.0	11.4
82.5°	0.0	0.0	0.0	0.0	0.6	4.0	5.7	7.4	8.6	8.0	10.3
85°	0.0	0.0	0.0	0.0	1.7	3.4	2.3	1.1	0.6	0.6	1.7
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°	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9
2.5°	1273.2	1313.7	1357.0	1373.6	1424.9	1463.7	1489.9	1546.3	1554.9	1555.5
5°	1022.9	1043.4	1117.6	1152.3	1228.7	1288.0	1351.3	1442.6	1503.6	1508.1
7.5°	727.0	784.0	815.4	906.0	1000.1	1093.0	1187.1	1293.2	1363.9	1365.6
10°	585.0	622.1	677.9	745.8	825.1	919.7	1045.1	1168.3	1240.1	1257.8
12.5°	471.0	536.0	599.8	670.0	730.4	801.7	936.8	1101.0	1160.3	1195.7
15°	362.6	421.9	497.2	579.3	647.7	742.9	896.9	1084.5	1184.3	1196.2
17.5°	267.4	320.4	390.0	467.5	570.2	705.3	903.7	1168.3	1262.4	1282.3
20°	192.2	222.9	277.7	367.8	498.3	661.4	910.6	1253.3	1396.4	1430.6
22.5°	152.2	164.8	200.7	280.5	417.9	615.2	959.0	1415.8	1580.5	1630.1
25°	132.3	139.1	156.2	221.2	367.2	610.7	1036.6	1610.8	1825.7	1861.6
27.5°	127.7	128.9	143.7	203.0	339.8	580.4	1066.2	1749.3	1978.5	2015.0
30°	134.6	152.8	153.9	171.6	289.1	520.6	1081.6	1883.3	2108.0	2134.8
32.5°	116.3	110.6	114.6	132.9	254.3	485.8	1110.7	2000.2	2255.6	2274.5
35°	81.0	85.0	94.1	115.2	222.4	449.3	1118.1	2129.1	2395.9	2415.3
37.5°	74.7	77.0	84.4	98.1	195.6	428.8	1107.9	2223.1	2541.3	2568.1
40°	69.6	72.4	76.4	88.9	175.6	406.0	1093.6	2308.1	2630.2	2696.4
42.5°	65.6	67.9	71.3	85.0	158.5	383.2	1073.7	2427.8	2710.1	2767.7
45°	61.0	64.4	68.4	82.7	148.8	367.8	1058.8	2420.4	2756.3	2787.0
47.5°	56.4	62.1	66.7	77.0	146.0	360.4	1065.1	2392.5	2718.6	2697.5
50°	51.9	59.3	67.3	63.9	139.1	345.5	1072.5	2430.7	2629.1	2625.1
52.5°	47.9	56.4	62.7	52.5	123.7	331.3	1144.4	2480.9	2692.4	2639.4
55°	42.2	50.7	50.2	42.2	100.4	320.4	1200.8	2482.0	2649.6	2669.6
57.5°	38.2	45.0	39.3	35.4	74.1	268.0	1109.0	2081.2	2268.2	2303.5
60°	35.4	43.9	29.6	27.9	48.5	193.3	968.2	1611.9	1802.9	1869.6
62.5°	32.5	41.6	23.4	22.8	33.6	137.4	796.0	1349.0	1553.7	1644.4
65°	28.5	29.6	18.8	17.7	23.9	74.1	484.7	928.8	1161.5	1195.1
67.5°	23.4	22.8	15.4	14.3	16.0	35.9	213.8	465.3	673.4	729.8
70°	18.8	18.8	13.1	11.4	11.4	16.5	55.9	185.3	304.5	337.0
72.5°	13.7	14.3	10.3	9.1	8.6	8.0	9.1	37.1	79.8	102.1
75°	12.0	12.5	10.3	8.0	6.3	5.1	4.0	3.4	4.6	7.4
77.5°	13.1	13.1	10.8	7.4	5.7	4.0	2.3	1.1	1.1	0.6
80°	16.5	17.1	14.3	9.7	6.8	4.6	2.9	1.1	0.6	0.6
82.5°	17.7	19.4	16.0	12.0	8.6	5.1	2.9	0.6	0.0	0.0
85°	4.6	7.4	12.5	10.8	8.6	5.1	2.9	0.6	0.0	0.0
87.5°	0.0	0.6	1.7	1.7	2.3	2.3	1.7	0.6	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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