

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: P648214

Luminaire Tested: **GALN-SA1B-835-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648214
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-835-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 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: 2492.3 lumens
Efficiency: N/A
Efficacy: 56.6 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

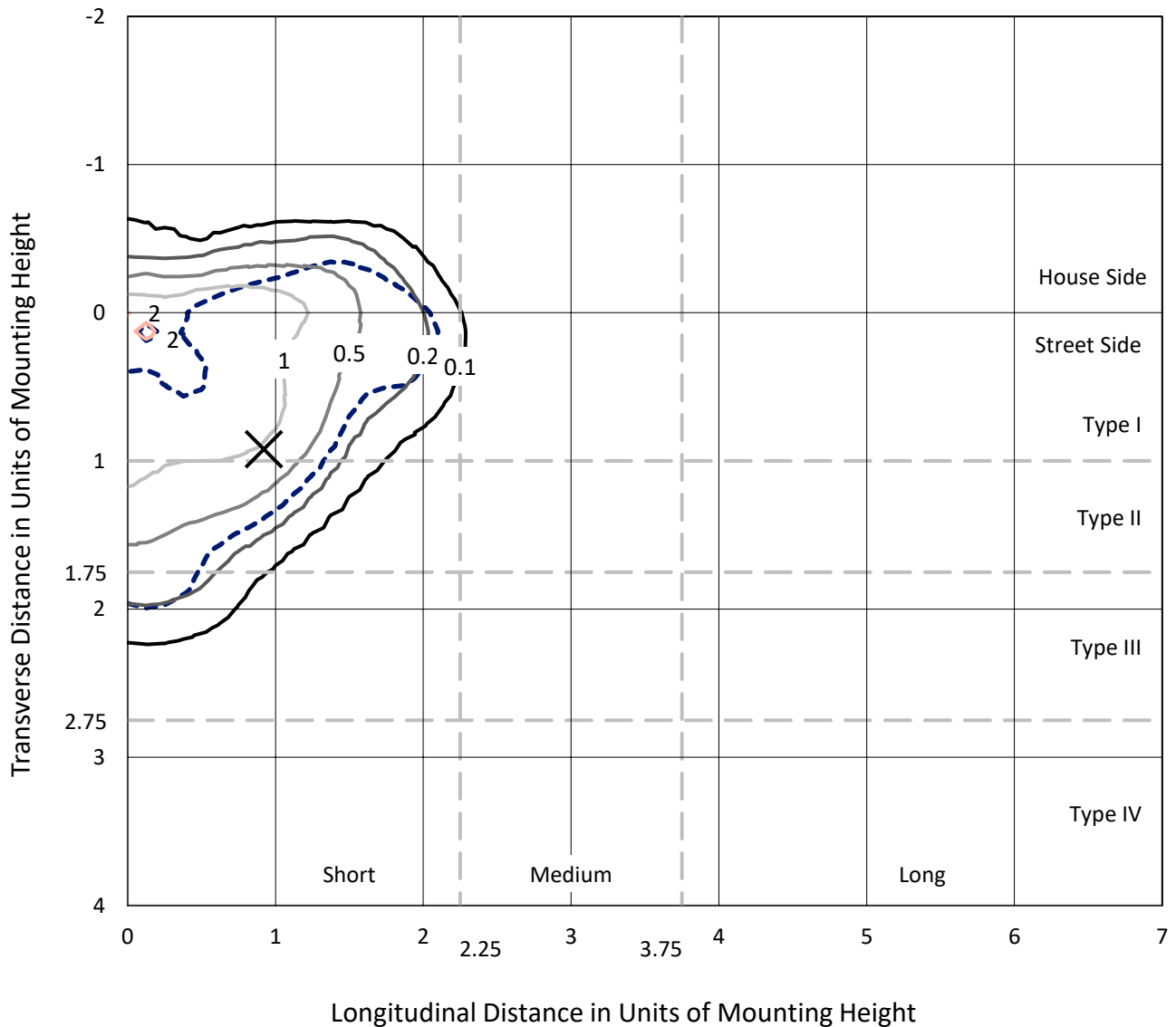
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

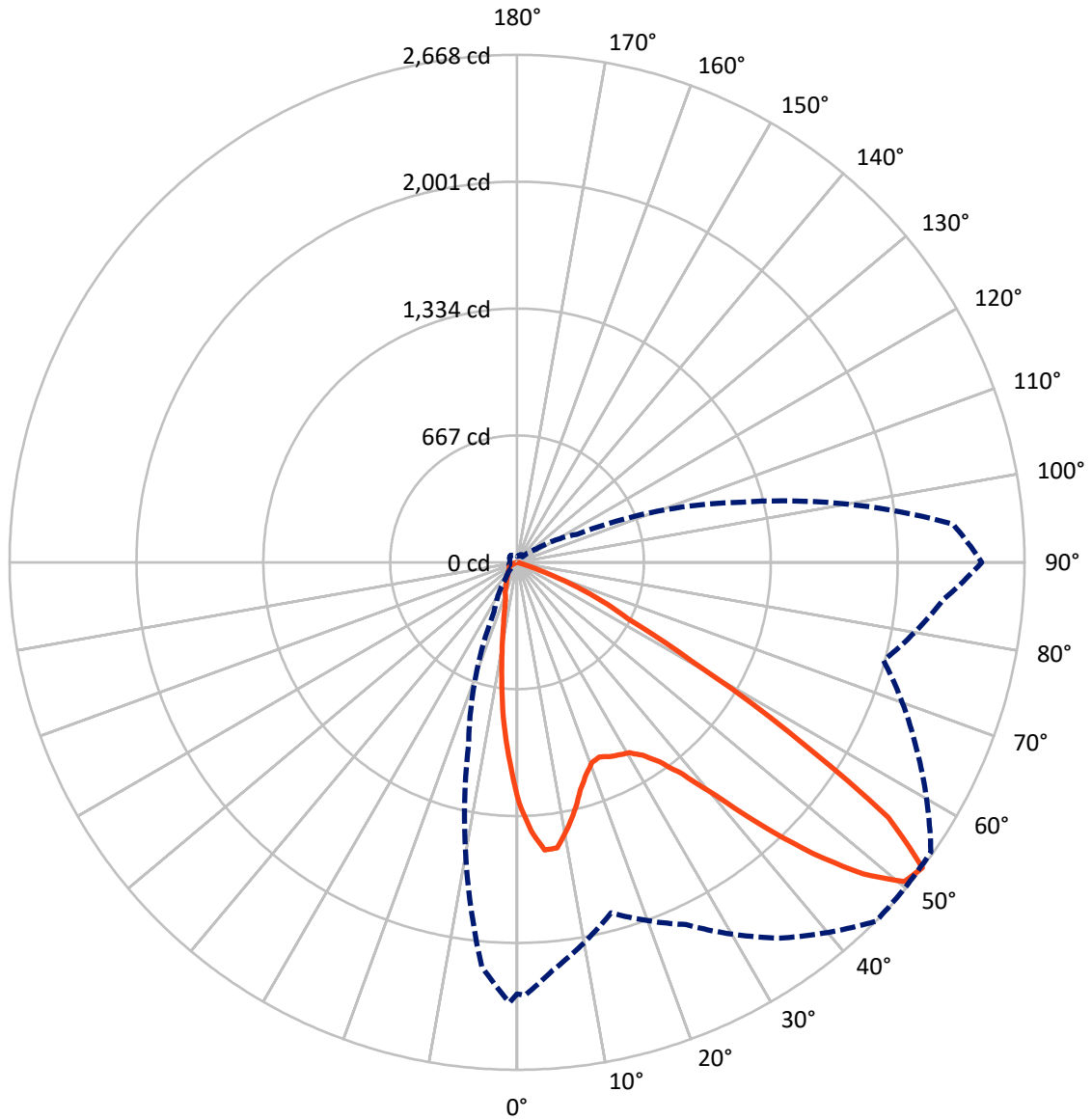
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	505.8	0.0	505.8
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	1986.5	0.0	1986.5
	% Fixture	79.7	0.0	79.7
Total	Lumens	2492.3	0.0	2492.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.2	3.7
10°-20°	181.8	7.3
20°-30°	276.7	11.1
30°-40°	413.6	16.6
40°-50°	589.0	23.6
50°-60°	633.1	25.4
60°-70°	280.6	11.3
70°-80°	22.7	0.9
80°-90°	2.6	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°	2492.3	100.0
0°-180°	2492.3	100.0

Coefficient of Utilization



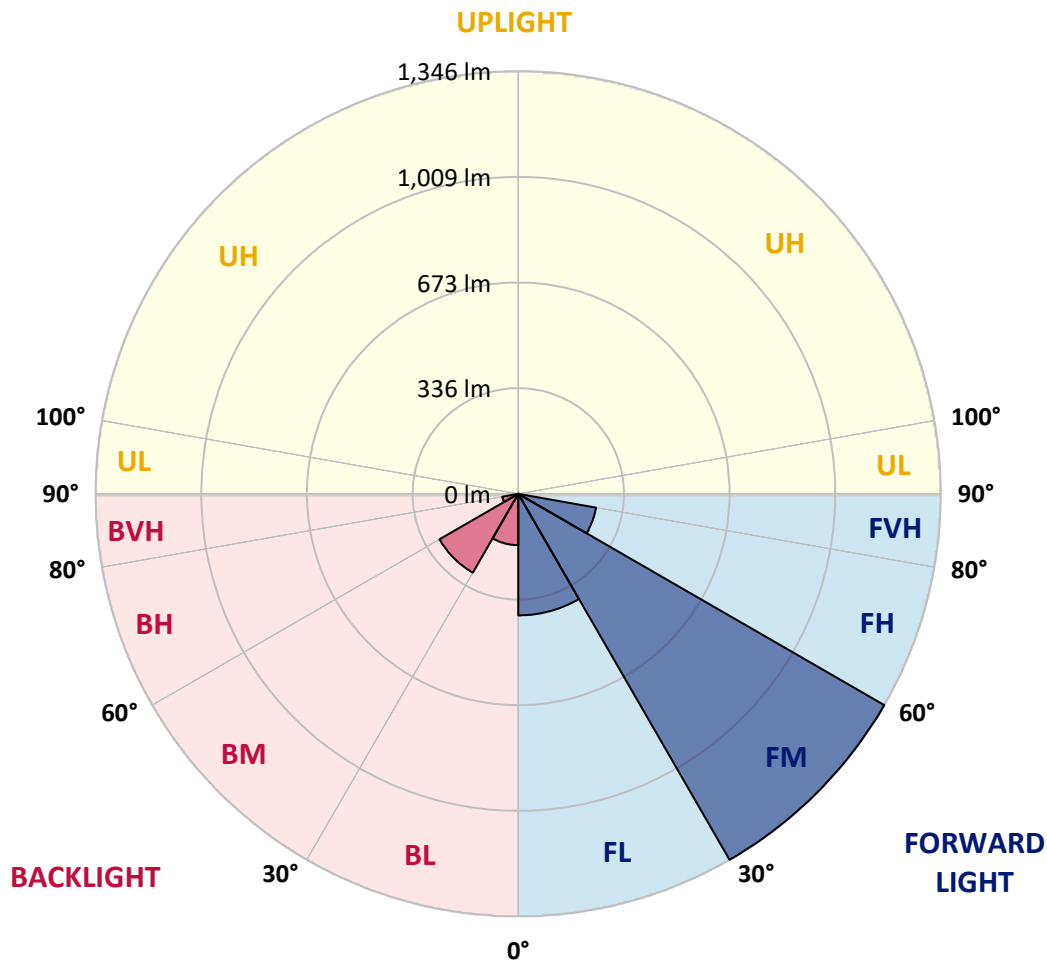
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	387.1	15.5			
FM (30°-60°)	1345.9	54.0			
FH (60°-80°)	251.5	10.1			G0/660
FVH (80°-90°)	2.0	0.1			G0/10
BL (0°-30°)	163.6	6.6	B1/500		
BM (30°-60°)	289.8	11.6	B1/1000		
BH (60°-80°)	51.8	2.1	B0/110		G0/110
BVH (80°-90°)	0.7	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°	1263.7	1263.7	1263.7	1263.7	1263.7	1263.7	1263.7	1263.7	1263.7	1263.7	1263.7
2.5°	1337.2	1341.1	1362.7	1389.7	1403.9	1436.3	1413.7	1419.6	1407.4	1364.2	1330.4
5°	1296.6	1296.0	1323.5	1390.1	1453.4	1517.6	1519.6	1485.3	1425.0	1358.8	1264.2
7.5°	1174.0	1193.1	1221.6	1327.9	1445.1	1493.1	1516.1	1476.0	1383.3	1288.7	1186.2
10°	1081.3	1091.2	1139.2	1267.6	1353.4	1417.6	1431.9	1408.8	1337.8	1219.6	1104.9
12.5°	1027.9	1032.9	1089.2	1197.1	1287.7	1335.2	1342.1	1352.9	1302.0	1191.2	1053.4
15°	1028.4	1032.3	1108.3	1198.5	1234.3	1221.6	1244.1	1243.6	1265.6	1185.8	1096.5
17.5°	1102.5	1106.8	1175.4	1220.1	1204.4	1174.5	1173.0	1195.6	1242.2	1253.0	1161.7
20°	1229.9	1240.2	1290.7	1288.2	1199.9	1139.7	1123.1	1140.2	1248.5	1309.8	1293.1
22.5°	1401.4	1415.7	1451.0	1383.3	1220.1	1116.2	1110.8	1144.1	1290.7	1436.7	1442.1
25°	1600.5	1624.5	1641.6	1554.9	1291.6	1156.9	1131.4	1188.7	1347.5	1574.5	1631.9
27.5°	1732.3	1757.4	1753.4	1629.4	1339.7	1167.6	1146.1	1199.5	1397.0	1607.3	1730.8
30°	1835.3	1850.5	1877.9	1669.6	1387.7	1198.0	1161.3	1245.0	1413.2	1664.2	1850.5
32.5°	1955.4	1965.6	1967.6	1740.7	1461.7	1236.3	1208.3	1302.0	1484.8	1718.6	1956.3
35°	2076.4	2091.6	2059.8	1828.4	1507.4	1307.3	1286.8	1400.5	1542.1	1775.0	2073.0
37.5°	2207.8	2215.7	2142.1	1864.7	1572.5	1423.0	1411.7	1506.8	1641.6	1876.9	2202.4
40°	2318.1	2325.4	2229.9	1909.3	1641.2	1584.8	1613.7	1709.8	1776.9	1943.1	2267.1
42.5°	2379.4	2396.5	2259.3	1884.8	1778.9	1768.1	1896.5	1930.3	1933.8	1961.7	2325.0
45°	2396.1	2388.2	2210.7	1904.9	1899.5	2069.5	2186.2	2230.8	2089.7	1996.0	2339.7
47.5°	2319.1	2329.3	2139.2	1887.3	2057.8	2298.0	2449.0	2531.8	2205.9	1966.1	2303.4
50°	2256.8	2243.6	2116.1	1874.5	2100.5	2405.8	2638.7	2657.3	2312.7	2002.9	2263.7
52.5°	2269.1	2277.4	2152.9	1908.3	2101.4	2412.2	2668.1	2655.4	2316.1	1994.6	2249.5
55°	2295.1	2258.3	2137.2	1833.8	1960.8	2234.3	2368.1	2348.5	2137.7	1905.8	2214.6
57.5°	1980.4	2037.2	1965.2	1637.3	1609.3	1683.3	1680.9	1741.2	1594.6	1640.2	2016.1
60°	1607.3	1617.1	1644.1	1400.5	1113.7	1088.2	1052.9	1014.7	1073.0	1402.4	1833.8
62.5°	1413.7	1402.0	1498.0	1274.0	786.3	658.3	652.5	676.0	827.9	1337.8	1720.1
65°	1027.5	1042.2	1111.8	988.7	590.2	502.5	493.6	563.2	670.1	1072.0	1312.7
67.5°	627.4	655.8	662.3	609.8	400.5	318.1	305.4	368.6	483.8	693.6	769.6
70°	289.7	324.0	356.3	332.9	231.8	130.9	123.6	154.9	244.1	399.0	408.3
72.5°	87.8	88.2	123.6	128.9	75.0	29.4	26.0	34.3	82.8	131.9	138.7
75°	6.3	6.9	16.7	19.1	14.3	7.4	7.8	9.3	17.6	29.4	22.1
77.5°	0.5	0.5	0.5	2.4	4.4	4.9	6.3	7.4	9.3	10.8	9.8
80°	0.5	0.0	0.5	2.0	3.4	4.9	5.9	6.9	7.4	8.3	7.4
82.5°	0.0	0.0	0.0	1.5	3.4	4.9	5.4	7.4	8.3	9.8	8.3
85°	0.0	0.0	0.0	1.5	3.4	5.4	4.9	2.4	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°	1263.7	1263.7	1263.7	1263.7	1263.7	1263.7	1263.7	1263.7	1263.7	1263.7	1263.7
2.5°	1336.3	1317.2	1273.5	1251.5	1199.5	1192.1	1141.1	1132.8	1115.7	1106.4	1083.8
5°	1222.5	1199.5	1128.4	1068.6	999.0	950.5	913.2	879.4	859.8	841.6	850.0
7.5°	1129.9	1062.8	983.8	883.8	803.4	751.4	694.6	648.0	620.6	602.0	606.4
10°	1032.9	989.2	879.4	767.2	670.1	633.3	588.7	553.0	514.2	480.8	465.2
12.5°	1002.5	937.7	800.0	685.8	612.2	576.4	525.5	484.3	434.8	394.1	379.9
15°	1007.8	945.6	778.5	656.4	569.6	507.9	447.0	396.0	341.6	313.2	298.6
17.5°	1095.6	987.8	792.6	625.5	510.3	424.5	349.5	284.8	244.1	214.7	208.4
20°	1203.4	1078.9	823.0	602.9	461.7	337.7	255.4	199.5	165.7	160.7	159.3
22.5°	1361.2	1227.9	888.2	587.7	402.5	263.2	175.0	145.1	135.8	134.8	135.3
25°	1581.8	1414.6	959.3	575.0	357.8	203.0	143.1	123.0	120.1	118.6	121.1
27.5°	1677.4	1527.4	997.1	547.6	317.1	182.8	141.2	122.1	113.7	111.3	112.8
30°	1795.6	1602.4	1056.3	500.5	257.4	150.5	131.9	132.9	128.9	116.7	112.8
32.5°	1952.4	1696.1	1086.3	467.1	229.9	124.5	96.5	88.7	99.0	101.0	104.4
35°	2052.9	1791.1	1101.4	447.6	215.7	106.4	81.8	74.5	72.0	72.6	74.5
37.5°	2239.7	1919.6	1120.6	427.0	204.9	92.6	74.0	67.2	63.7	63.7	65.7
40°	2351.4	2021.5	1146.5	415.7	194.1	84.3	67.2	61.3	58.3	58.3	59.4
42.5°	2379.4	2072.1	1137.7	411.8	181.9	82.4	61.3	56.8	53.4	52.9	52.5
45°	2429.4	2149.0	1139.2	407.3	169.1	75.0	57.9	52.9	48.1	47.5	47.1
47.5°	2484.3	2204.4	1142.2	390.2	156.8	62.7	60.3	49.0	43.1	42.1	42.1
50°	2437.2	2248.5	1167.6	373.0	141.2	51.0	59.4	46.0	38.2	36.8	37.3
52.5°	2443.1	2300.5	1221.6	349.0	121.6	40.7	48.1	43.6	34.8	32.3	32.8
55°	2349.0	2245.6	1228.9	323.5	95.1	31.4	36.8	38.2	29.4	28.4	28.4
57.5°	2022.0	1901.4	1084.3	262.2	62.7	26.0	26.5	33.4	25.5	24.5	25.0
60°	1730.4	1526.5	872.5	173.0	39.2	20.6	19.1	33.8	22.6	22.1	23.5
62.5°	1577.4	1254.4	661.8	107.3	26.9	15.7	13.2	27.5	19.6	19.6	21.5
65°	1139.7	842.7	384.8	56.4	19.1	12.3	9.8	15.7	16.2	16.7	17.6
67.5°	705.9	425.5	162.2	27.5	12.8	8.3	6.3	9.8	10.8	10.8	11.7
70°	348.5	169.6	53.9	15.7	9.8	6.9	4.4	5.4	5.4	4.9	5.4
72.5°	107.8	51.0	13.7	9.8	6.9	4.4	2.4	2.0	1.0	0.0	0.5
75°	12.3	9.8	8.8	6.9	4.4	2.0	0.5	0.0	0.0	0.0	0.0
77.5°	7.4	8.3	8.3	6.9	4.4	1.5	0.0	0.0	0.0	0.0	0.0
80°	5.9	6.3	6.9	6.3	3.9	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.4	8.3	9.3	8.3	5.4	2.4	1.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	1.5	0.5	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°	1263.7	1263.7	1263.7	1263.7	1263.7	1263.7	1263.7	1263.7	1263.7	1263.7	1263.7
2.5°	1074.5	1063.7	1078.9	1056.3	1055.9	1056.3	1050.0	1044.1	1053.4	1078.4	1080.9
5°	820.1	843.1	850.5	874.5	861.3	841.6	845.6	832.3	864.7	878.9	867.6
7.5°	597.0	595.5	645.1	648.0	654.4	654.9	653.9	628.0	601.5	607.4	625.0
10°	463.2	438.2	462.3	459.8	475.5	471.1	477.5	449.5	458.8	458.8	470.1
12.5°	377.5	350.9	346.6	340.2	346.6	349.0	351.5	346.1	361.7	369.1	376.9
15°	288.2	273.5	269.6	257.4	259.3	266.1	272.1	274.5	269.6	280.9	281.9
17.5°	209.3	208.8	211.3	210.8	208.8	207.3	206.9	200.5	198.5	199.5	203.4
20°	158.8	162.7	171.1	179.4	183.8	178.4	171.1	160.3	155.9	156.8	157.4
22.5°	135.8	141.6	152.9	162.2	166.7	156.8	143.6	134.3	132.3	131.9	131.4
25°	123.0	129.9	138.2	141.2	140.7	134.8	125.0	121.1	120.1	119.1	114.7
27.5°	116.2	118.6	120.1	123.6	125.0	121.1	118.6	112.8	111.7	111.7	108.8
30°	112.3	110.8	112.8	110.3	112.3	109.3	109.8	109.8	107.3	108.4	108.4
32.5°	104.4	104.9	104.9	100.0	101.5	98.0	101.5	104.4	104.9	105.4	109.3
35°	76.5	85.3	89.7	89.7	91.1	88.7	88.2	84.8	80.4	76.0	74.0
37.5°	67.2	70.5	76.5	79.9	82.4	80.4	76.0	70.5	68.1	66.2	64.2
40°	59.8	62.7	66.6	70.5	75.5	73.1	66.2	63.7	60.8	60.8	58.8
42.5°	53.9	55.4	57.9	63.7	69.1	64.2	59.4	57.3	55.9	55.4	54.9
45°	48.5	49.0	51.4	56.4	62.7	57.9	52.9	50.5	51.0	51.4	51.0
47.5°	43.6	44.6	46.0	52.0	55.9	53.4	48.1	46.6	46.6	46.6	47.1
50°	37.7	40.2	43.1	48.1	51.0	49.5	45.1	43.1	42.1	42.1	42.7
52.5°	33.8	35.8	39.7	45.6	49.5	47.1	42.7	39.7	37.7	37.3	38.2
55°	29.4	32.8	39.2	43.6	49.0	46.6	41.7	38.2	34.8	34.3	34.3
57.5°	26.5	31.9	37.7	43.1	47.5	45.6	41.7	37.3	32.8	32.3	32.3
60°	25.0	30.9	36.8	41.7	47.5	44.6	41.2	36.3	31.4	31.4	30.9
62.5°	23.5	28.9	34.8	39.7	45.6	43.1	39.7	34.8	29.9	29.9	28.9
65°	19.6	25.0	28.9	33.4	39.7	37.3	33.8	30.4	26.5	25.5	26.0
67.5°	13.7	17.1	21.1	25.5	29.4	28.4	26.9	24.5	21.1	20.6	20.1
70°	6.9	9.3	12.8	17.1	20.6	19.6	18.6	16.7	14.7	14.3	14.3
72.5°	1.0	3.0	5.4	7.8	10.8	11.3	10.8	10.3	9.8	9.3	9.8
75°	0.0	0.0	0.0	2.0	4.4	5.4	6.3	7.4	7.4	6.3	7.8
77.5°	0.0	0.0	0.0	0.0	0.5	2.4	4.9	6.3	7.8	6.9	9.3
80°	0.0	0.0	0.0	0.0	0.5	3.0	4.9	6.9	7.8	6.9	9.8
82.5°	0.0	0.0	0.0	0.0	0.5	3.4	4.9	6.3	7.4	6.9	8.8
85°	0.0	0.0	0.0	0.0	1.5	3.0	2.0	1.0	0.5	0.5	1.5
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°	1263.7	1263.7	1263.7	1263.7	1263.7	1263.7	1263.7	1263.7	1263.7	1263.7
2.5°	1094.6	1129.4	1166.7	1180.8	1225.0	1258.3	1280.8	1329.4	1336.7	1337.2
5°	879.4	897.1	960.7	990.7	1056.3	1107.3	1161.7	1240.2	1292.7	1296.6
7.5°	625.0	674.0	700.9	778.9	859.8	939.7	1020.6	1111.8	1172.5	1174.0
10°	502.9	534.8	582.9	641.2	709.3	790.7	898.5	1004.4	1066.1	1081.3
12.5°	404.9	460.8	515.7	576.0	628.0	689.2	805.4	946.6	997.5	1027.9
15°	311.8	362.8	427.4	498.1	556.9	638.7	771.1	932.3	1018.1	1028.4
17.5°	229.9	275.5	335.3	402.0	490.2	606.4	777.0	1004.4	1085.3	1102.5
20°	165.2	191.7	238.7	316.2	428.5	568.6	782.8	1077.4	1200.5	1229.9
22.5°	130.9	141.6	172.6	241.2	359.3	528.9	824.5	1217.2	1358.8	1401.4
25°	113.7	119.6	134.3	190.2	315.7	525.0	891.1	1384.8	1569.6	1600.5
27.5°	109.8	110.8	123.6	174.5	292.1	499.0	916.7	1503.9	1701.0	1732.3
30°	115.6	131.4	132.3	147.5	248.5	447.6	929.9	1619.1	1812.3	1835.3
32.5°	100.0	95.1	98.5	114.2	218.6	417.7	954.9	1719.5	1939.2	1955.4
35°	69.6	73.1	80.9	99.0	191.2	386.3	961.3	1830.3	2059.8	2076.4
37.5°	64.2	66.2	72.6	84.3	168.1	368.6	952.4	1911.2	2184.8	2207.8
40°	59.8	62.2	65.7	76.5	151.0	349.0	940.1	1984.3	2261.2	2318.1
42.5°	56.4	58.3	61.3	73.1	136.2	329.4	923.0	2087.2	2329.9	2379.4
45°	52.5	55.4	58.8	71.1	127.9	316.2	910.3	2080.8	2369.6	2396.1
47.5°	48.5	53.4	57.3	66.2	125.5	309.8	915.6	2056.9	2337.3	2319.1
50°	44.6	51.0	57.9	54.9	119.6	297.1	922.1	2089.7	2260.3	2256.8
52.5°	41.2	48.5	53.9	45.1	106.4	284.8	983.8	2132.8	2314.7	2269.1
55°	36.3	43.6	43.1	36.3	86.3	275.5	1032.3	2133.8	2277.9	2295.1
57.5°	32.8	38.8	33.8	30.4	63.7	230.4	953.4	1789.2	1950.0	1980.4
60°	30.4	37.7	25.5	24.0	41.7	166.2	832.3	1385.8	1549.9	1607.3
62.5°	28.0	35.8	20.1	19.6	28.9	118.2	684.3	1159.8	1335.8	1413.7
65°	24.5	25.5	16.2	15.2	20.6	63.7	416.6	798.5	998.5	1027.5
67.5°	20.1	19.6	13.2	12.3	13.7	30.9	183.8	400.0	579.0	627.4
70°	16.2	16.2	11.3	9.8	9.8	14.3	48.1	159.3	261.8	289.7
72.5°	11.7	12.3	8.8	7.8	7.4	6.9	7.8	31.9	68.6	87.8
75°	10.3	10.8	8.8	6.9	5.4	4.4	3.4	3.0	3.9	6.3
77.5°	11.3	11.3	9.3	6.3	4.9	3.4	2.0	1.0	1.0	0.5
80°	14.3	14.7	12.3	8.3	5.9	3.9	2.4	1.0	0.5	0.5
82.5°	15.2	16.7	13.7	10.3	7.4	4.4	2.4	0.5	0.0	0.0
85°	3.9	6.3	10.8	9.3	7.4	4.4	2.4	0.5	0.0	0.0
87.5°	0.0	0.5	1.5	1.5	2.0	2.0	1.5	0.5	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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