

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: P652174

Luminaire Tested: **GALN-SA1B-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652174
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-840-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 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: 2676.9 lumens
Efficiency: N/A
Efficacy: 60.8 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

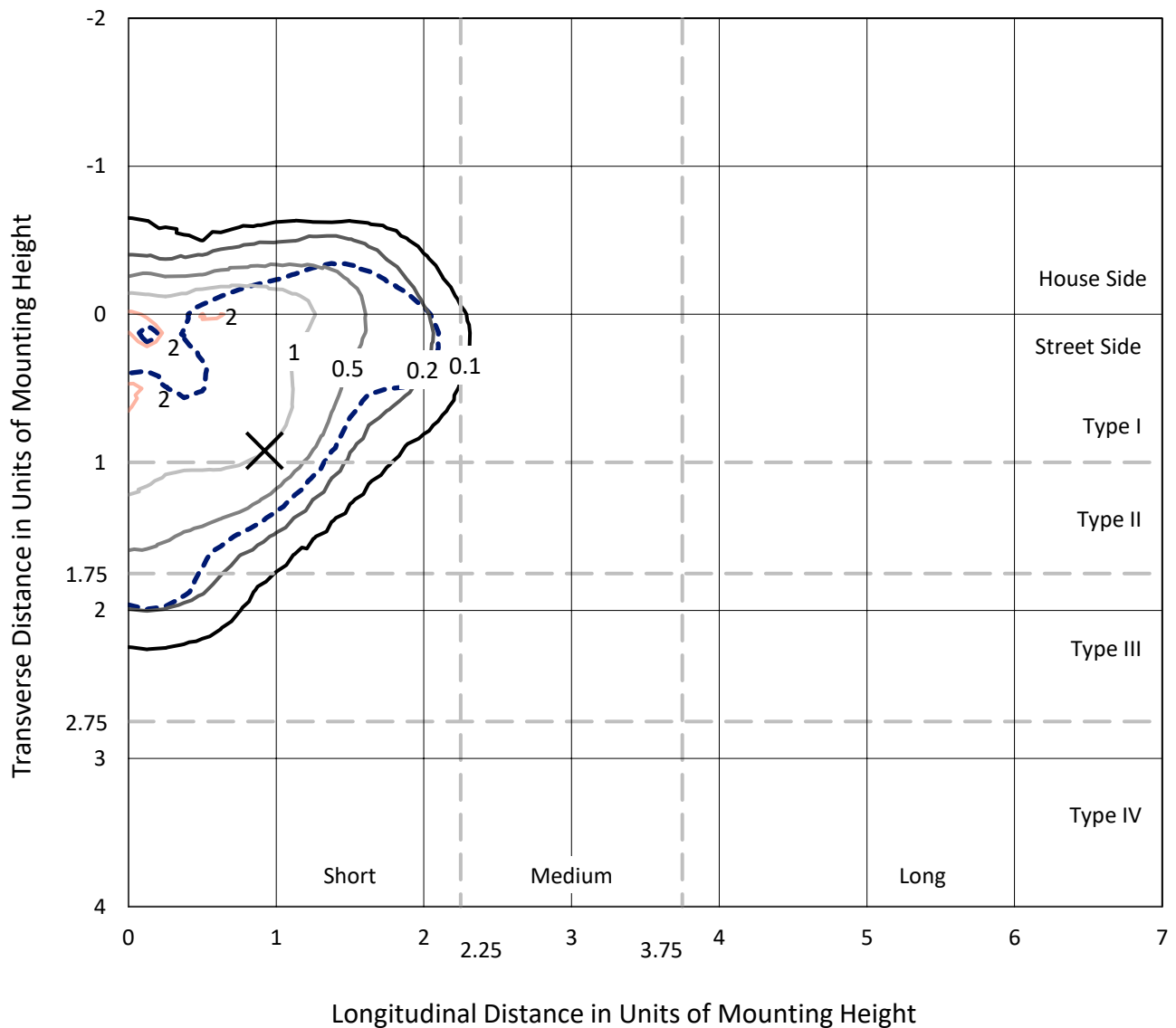
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

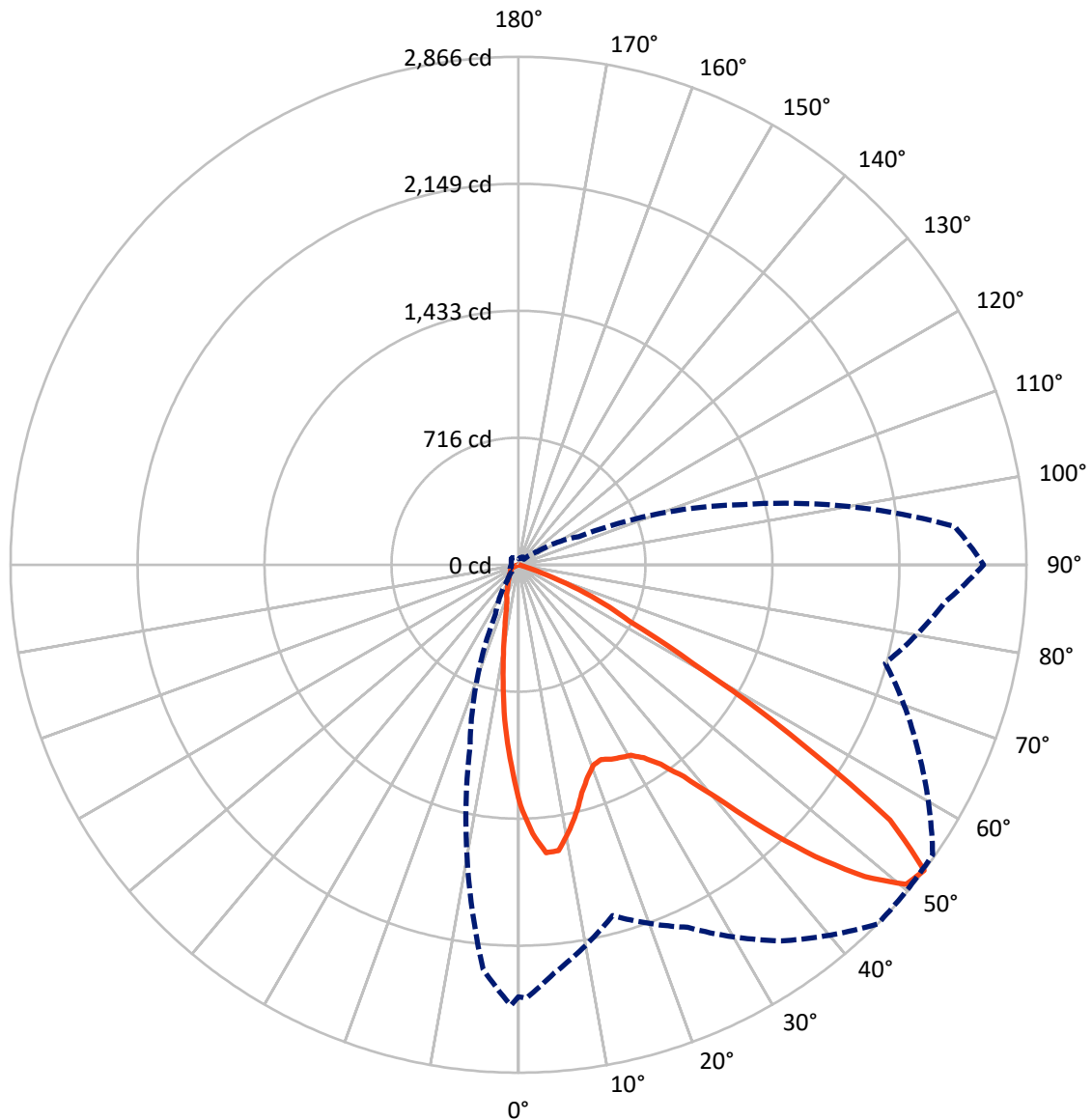
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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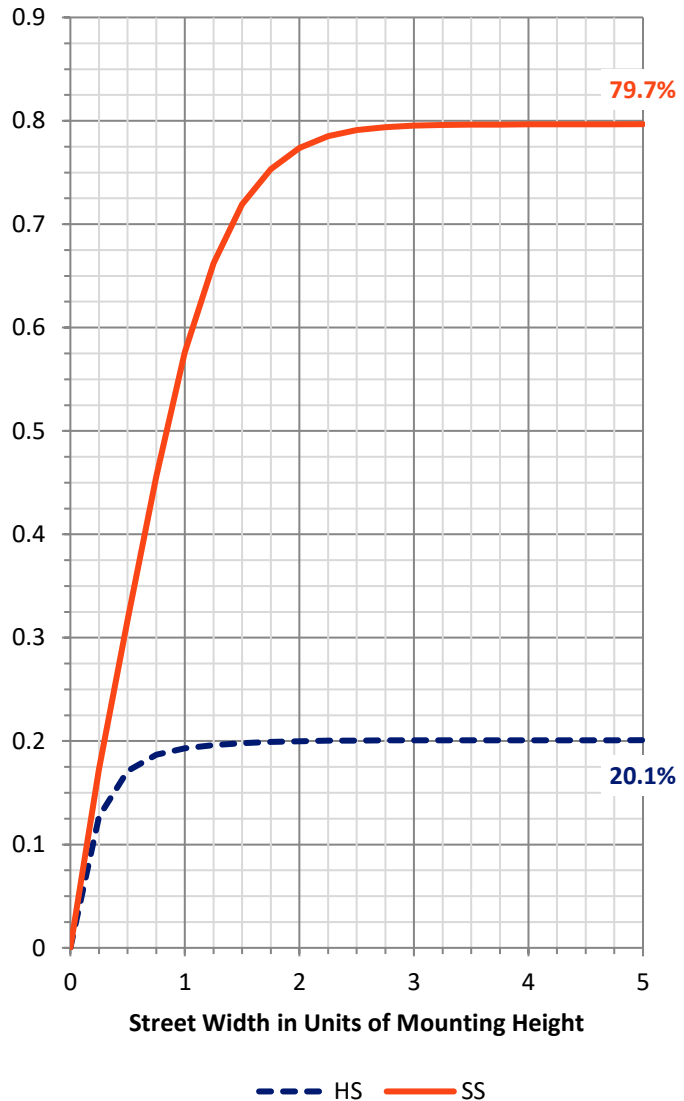
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	543.3	0.0	543.3
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	2133.6	0.0	2133.6
	% Fixture	79.7	0.0	79.7
Total	Lumens	2676.9	0.0	2676.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.0	3.7
10°-20°	195.3	7.3
20°-30°	297.2	11.1
30°-40°	444.2	16.6
40°-50°	632.6	23.6
50°-60°	680.0	25.4
60°-70°	301.3	11.3
70°-80°	24.4	0.9
80°-90°	2.8	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°	2676.9	100.0
0°-180°	2676.9	100.0

Coefficient of Utilization

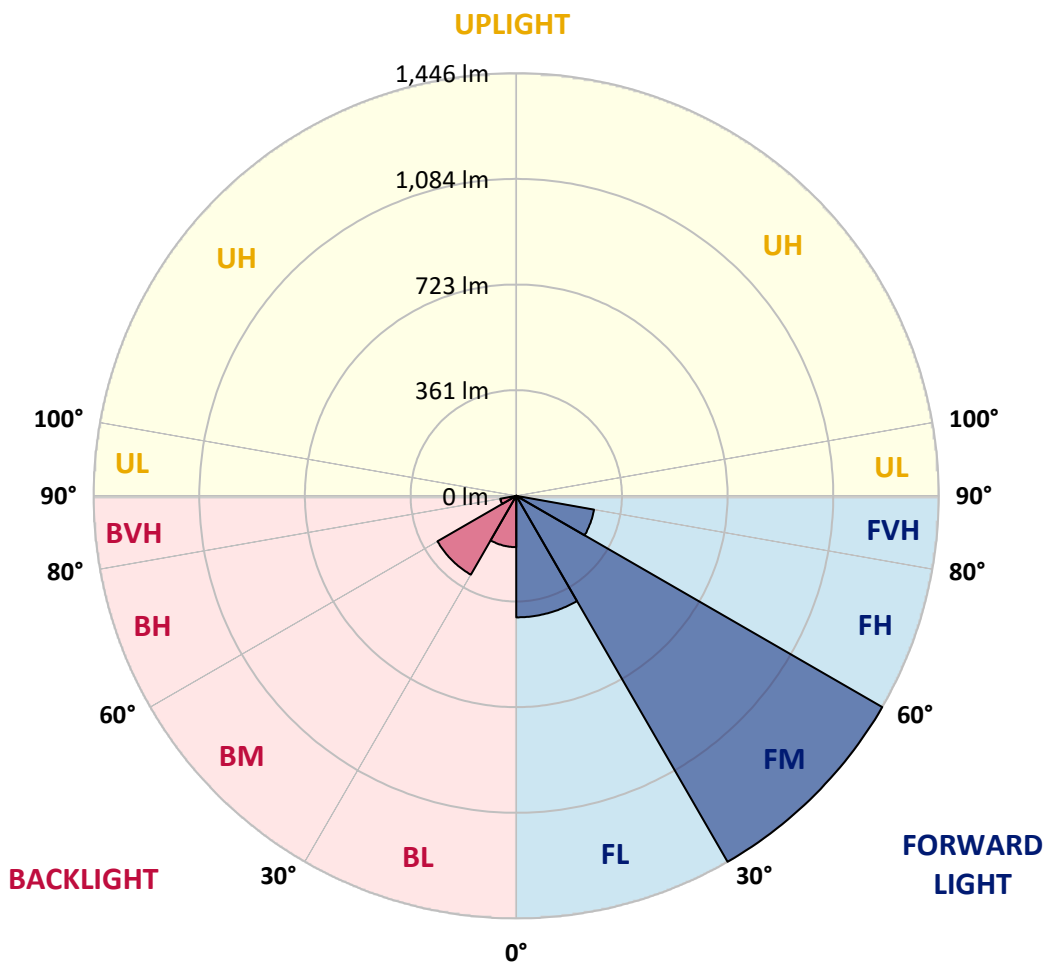


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	415.8	15.5			
FM (30°-60°)	1445.6	54.0			
FH (60°-80°)	270.1	10.1			G0/660
FVH (80°-90°)	2.1	0.1			G0/10
BL (0°-30°)	175.7	6.6	B1/500		
BM (30°-60°)	311.2	11.6	B1/1000		
BH (60°-80°)	55.6	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°	1357.3	1357.3	1357.3	1357.3	1357.3	1357.3	1357.3	1357.3	1357.3	1357.3	1357.3
2.5°	1436.3	1440.5	1463.7	1492.6	1507.9	1542.6	1518.4	1524.7	1511.6	1465.3	1428.9
5°	1392.6	1392.0	1421.5	1493.1	1561.1	1630.0	1632.1	1595.3	1530.5	1459.5	1357.9
7.5°	1261.0	1281.5	1312.0	1426.3	1552.1	1603.7	1628.4	1585.3	1485.8	1384.2	1274.1
10°	1161.4	1172.0	1223.6	1361.5	1453.7	1522.6	1537.9	1513.1	1436.8	1309.9	1186.7
12.5°	1104.1	1109.4	1169.9	1285.7	1383.1	1434.2	1441.6	1453.2	1398.4	1279.4	1131.5
15°	1104.6	1108.8	1190.4	1287.3	1325.8	1312.0	1336.3	1335.8	1359.4	1273.6	1177.7
17.5°	1184.1	1188.8	1262.5	1310.4	1293.6	1261.5	1259.9	1284.1	1334.2	1345.8	1247.8
20°	1321.0	1332.1	1386.3	1383.6	1288.8	1224.1	1206.2	1224.7	1341.0	1406.8	1388.9
22.5°	1505.2	1520.5	1558.5	1485.8	1310.4	1198.8	1193.0	1228.9	1386.3	1543.2	1549.0
25°	1719.0	1744.8	1763.2	1670.1	1387.3	1242.6	1215.2	1276.7	1447.4	1691.1	1752.7
27.5°	1860.6	1887.5	1883.3	1750.1	1439.0	1254.1	1231.0	1288.3	1500.5	1726.4	1859.0
30°	1971.2	1987.5	2017.1	1793.3	1490.5	1286.7	1247.3	1337.3	1517.9	1787.5	1987.5
32.5°	2100.2	2111.2	2113.3	1869.6	1570.0	1327.9	1297.8	1398.4	1594.8	1845.9	2101.2
35°	2230.2	2246.6	2212.3	1963.8	1619.0	1404.1	1382.1	1504.2	1656.3	1906.5	2226.5
37.5°	2371.4	2379.8	2300.8	2002.8	1689.0	1528.4	1516.3	1618.4	1763.2	2016.0	2365.6
40°	2489.8	2497.7	2395.1	2050.7	1762.7	1702.2	1733.2	1836.4	1908.6	2087.0	2435.0
42.5°	2555.6	2574.0	2426.6	2024.4	1910.7	1899.1	2037.0	2073.3	2077.0	2107.0	2497.2
45°	2573.5	2565.1	2374.5	2046.0	2040.2	2222.8	2348.2	2396.1	2244.5	2143.9	2513.0
47.5°	2490.9	2501.9	2297.6	2027.1	2210.2	2468.3	2630.4	2719.4	2369.3	2111.8	2474.1
50°	2424.0	2409.8	2272.9	2013.4	2256.1	2584.1	2834.2	2854.2	2484.1	2151.3	2431.3
52.5°	2437.1	2446.1	2312.4	2049.7	2257.1	2590.9	2865.7	2852.1	2487.7	2142.4	2416.1
55°	2465.1	2425.6	2295.5	1969.6	2106.0	2399.8	2543.5	2522.5	2296.1	2047.0	2378.7
57.5°	2127.1	2188.1	2110.7	1758.5	1728.5	1808.0	1805.4	1870.1	1712.7	1761.6	2165.5
60°	1726.4	1736.9	1765.8	1504.2	1196.2	1168.8	1130.9	1089.9	1152.5	1506.3	1969.6
62.5°	1518.4	1505.8	1609.0	1368.4	844.5	707.1	700.8	726.0	889.3	1436.8	1847.5
65°	1103.6	1119.4	1194.1	1061.9	633.9	539.7	530.2	604.9	719.7	1151.4	1409.9
67.5°	673.9	704.4	711.3	655.0	430.2	341.7	328.0	395.9	519.7	745.0	826.6
70°	311.2	348.0	382.7	357.5	249.0	140.6	132.7	166.3	262.2	428.6	438.6
72.5°	94.3	94.8	132.7	138.4	80.6	31.6	27.9	36.8	89.0	141.6	149.0
75°	6.8	7.4	17.9	20.5	15.3	7.9	8.4	10.0	18.9	31.6	23.7
77.5°	0.5	0.5	0.5	2.6	4.7	5.3	6.8	7.9	10.0	11.6	10.5
80°	0.5	0.0	0.5	2.1	3.7	5.3	6.3	7.4	7.9	8.9	7.9
82.5°	0.0	0.0	0.0	1.6	3.7	5.3	5.8	7.9	8.9	10.5	8.9
85°	0.0	0.0	0.0	1.6	3.7	5.8	5.3	2.6	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°	1357.3	1357.3	1357.3	1357.3	1357.3	1357.3	1357.3	1357.3	1357.3	1357.3	1357.3
2.5°	1435.3	1414.7	1367.8	1344.2	1288.3	1280.4	1225.7	1216.8	1198.3	1188.3	1164.1
5°	1313.1	1288.3	1212.0	1147.8	1073.0	1020.9	980.9	944.5	923.5	904.0	913.0
7.5°	1213.6	1141.5	1056.7	949.2	863.0	807.1	746.1	696.0	666.6	646.6	651.3
10°	1109.4	1062.4	944.5	824.0	719.7	680.2	632.3	593.9	552.3	516.5	499.6
12.5°	1076.7	1007.2	859.2	736.5	657.6	619.1	564.4	520.2	467.0	423.3	408.1
15°	1082.5	1015.6	836.1	705.0	611.8	545.5	480.1	425.4	366.9	336.4	320.7
17.5°	1176.7	1060.9	851.3	671.8	548.1	455.9	375.4	305.9	262.2	230.6	223.8
20°	1292.5	1158.8	884.0	647.6	495.9	362.7	274.3	214.3	178.0	172.7	171.1
22.5°	1462.1	1318.9	954.0	631.3	432.3	282.7	188.0	155.8	145.8	144.8	145.3
25°	1699.0	1519.4	1030.4	617.5	384.3	218.0	153.7	132.1	129.0	127.4	130.0
27.5°	1801.7	1640.5	1070.9	588.1	340.6	196.4	151.6	131.1	122.1	119.5	121.1
30°	1928.6	1721.1	1134.6	537.6	276.4	161.6	141.6	142.7	138.4	125.3	121.1
32.5°	2097.0	1821.7	1166.7	501.7	246.9	133.7	103.7	95.3	106.4	108.5	112.1
35°	2205.0	1923.8	1183.0	480.7	231.7	114.3	87.9	80.1	77.4	78.0	80.1
37.5°	2405.6	2061.8	1203.6	458.6	220.1	99.5	79.5	72.2	68.5	68.5	70.6
40°	2525.6	2171.3	1231.5	446.5	208.5	90.6	72.2	65.9	62.7	62.7	63.7
42.5°	2555.6	2225.5	1222.0	442.3	195.4	88.5	65.9	61.1	57.4	56.9	56.3
45°	2609.4	2308.2	1223.6	437.5	181.7	80.6	62.1	56.9	51.6	51.0	50.5
47.5°	2668.3	2367.7	1226.8	419.1	168.5	67.4	64.8	52.6	46.3	45.2	45.2
50°	2617.8	2415.0	1254.1	400.7	151.6	54.7	63.7	49.5	41.0	39.5	40.0
52.5°	2624.1	2470.9	1312.0	374.8	130.6	43.7	51.6	46.8	37.3	34.7	35.2
55°	2523.0	2411.9	1319.9	347.5	102.2	33.7	39.5	41.0	31.6	30.5	30.5
57.5°	2171.8	2042.3	1164.6	281.7	67.4	27.9	28.4	35.8	27.4	26.3	26.8
60°	1858.5	1639.5	937.1	185.9	42.1	22.1	20.5	36.3	24.2	23.7	25.2
62.5°	1694.3	1347.3	710.8	115.3	28.9	16.8	14.2	29.5	21.0	21.0	23.1
65°	1224.1	905.1	413.3	60.6	20.5	13.2	10.5	16.8	17.4	17.9	18.9
67.5°	758.2	457.0	174.3	29.5	13.7	8.9	6.8	10.5	11.6	11.6	12.6
70°	374.3	182.2	57.9	16.8	10.5	7.4	4.7	5.8	5.8	5.3	5.8
72.5°	115.8	54.7	14.7	10.5	7.4	4.7	2.6	2.1	1.1	0.0	0.5
75°	13.2	10.5	9.5	7.4	4.7	2.1	0.5	0.0	0.0	0.0	0.0
77.5°	7.9	8.9	8.9	7.4	4.7	1.6	0.0	0.0	0.0	0.0	0.0
80°	6.3	6.8	7.4	6.8	4.2	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	7.9	8.9	10.0	8.9	5.8	2.6	1.1	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	1.6	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°	1357.3	1357.3	1357.3	1357.3	1357.3	1357.3	1357.3	1357.3	1357.3	1357.3	1357.3
2.5°	1154.1	1142.5	1158.8	1134.6	1134.1	1134.6	1127.8	1121.5	1131.5	1158.3	1160.9
5°	880.9	905.6	913.5	939.3	925.1	904.0	908.2	894.0	928.7	944.0	931.9
7.5°	641.3	639.7	692.9	696.0	702.9	703.4	702.3	674.5	646.1	652.4	671.3
10°	497.5	470.7	496.5	493.8	510.7	505.9	512.8	482.8	492.8	492.8	504.9
12.5°	405.4	376.9	372.2	365.4	372.2	374.8	377.5	371.7	388.5	396.4	404.9
15°	309.6	293.8	289.6	276.4	278.5	285.9	292.2	294.9	289.6	301.7	302.8
17.5°	224.8	224.3	226.9	226.4	224.3	222.7	222.2	215.4	213.2	214.3	218.5
20°	170.6	174.8	183.8	192.7	197.5	191.7	183.8	172.2	167.4	168.5	169.0
22.5°	145.8	152.1	164.2	174.3	179.0	168.5	154.2	144.2	142.1	141.6	141.1
25°	132.1	139.5	148.4	151.6	151.1	144.8	134.2	130.0	129.0	127.9	123.2
27.5°	124.8	127.4	129.0	132.7	134.2	130.0	127.4	121.1	120.0	120.0	116.9
30°	120.6	119.0	121.1	118.5	120.6	117.4	117.9	117.9	115.3	116.4	116.4
32.5°	112.1	112.7	112.7	107.4	109.0	105.3	109.0	112.1	112.7	113.2	117.4
35°	82.2	91.6	96.4	96.4	97.9	95.3	94.8	91.1	86.4	81.6	79.5
37.5°	72.2	75.8	82.2	85.8	88.5	86.4	81.6	75.8	73.2	71.1	69.0
40°	64.3	67.4	71.6	75.8	81.1	78.5	71.1	68.5	65.3	65.3	63.2
42.5°	57.9	59.5	62.1	68.5	74.3	69.0	63.7	61.6	60.0	59.5	59.0
45°	52.1	52.6	55.3	60.6	67.4	62.1	56.9	54.2	54.7	55.3	54.7
47.5°	46.8	47.9	49.5	55.8	60.0	57.4	51.6	50.0	50.0	50.0	50.5
50°	40.5	43.1	46.3	51.6	54.7	53.2	48.4	46.3	45.2	45.2	45.8
52.5°	36.3	38.4	42.6	48.9	53.2	50.5	45.8	42.6	40.5	40.0	41.0
55°	31.6	35.2	42.1	46.8	52.6	50.0	44.7	41.0	37.3	36.8	36.8
57.5°	28.4	34.2	40.5	46.3	51.0	48.9	44.7	40.0	35.2	34.7	34.7
60°	26.8	33.1	39.5	44.7	51.0	47.9	44.2	38.9	33.7	33.7	33.1
62.5°	25.2	31.0	37.3	42.6	48.9	46.3	42.6	37.3	32.1	32.1	31.0
65°	21.0	26.8	31.0	35.8	42.6	40.0	36.3	32.6	28.4	27.4	27.9
67.5°	14.7	18.4	22.6	27.4	31.6	30.5	28.9	26.3	22.6	22.1	21.6
70°	7.4	10.0	13.7	18.4	22.1	21.0	20.0	17.9	15.8	15.3	15.3
72.5°	1.1	3.2	5.8	8.4	11.6	12.1	11.6	11.0	10.5	10.0	10.5
75°	0.0	0.0	0.0	2.1	4.7	5.8	6.8	7.9	7.9	6.8	8.4
77.5°	0.0	0.0	0.0	0.0	0.5	2.6	5.3	6.8	8.4	7.4	10.0
80°	0.0	0.0	0.0	0.0	0.5	3.2	5.3	7.4	8.4	7.4	10.5
82.5°	0.0	0.0	0.0	0.0	0.5	3.7	5.3	6.8	7.9	7.4	9.5
85°	0.0	0.0	0.0	0.0	1.6	3.2	2.1	1.1	0.5	0.5	1.6
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°	1357.3	1357.3	1357.3	1357.3	1357.3	1357.3	1357.3	1357.3	1357.3	1357.3
2.5°	1175.6	1213.1	1253.1	1268.3	1315.7	1351.5	1375.7	1427.8	1435.8	1436.3
5°	944.5	963.5	1031.9	1064.0	1134.6	1189.3	1247.8	1332.1	1388.4	1392.6
7.5°	671.3	723.9	752.9	836.6	923.5	1009.3	1096.2	1194.1	1259.4	1261.0
10°	540.2	574.4	626.0	688.7	761.9	849.2	965.0	1078.8	1145.1	1161.4
12.5°	434.9	494.9	553.9	618.6	674.5	740.2	865.1	1016.7	1071.4	1104.1
15°	334.9	389.6	459.1	535.0	598.1	686.0	828.2	1001.4	1093.6	1104.6
17.5°	246.9	295.9	360.1	431.8	526.5	651.3	834.5	1078.8	1165.7	1184.1
20°	177.5	205.9	256.4	339.6	460.2	610.7	840.8	1157.2	1289.4	1321.0
22.5°	140.6	152.1	185.4	259.0	385.9	568.1	885.6	1307.3	1459.5	1505.2
25°	122.1	128.5	144.2	204.3	339.1	563.9	957.1	1487.4	1685.9	1719.0
27.5°	117.9	119.0	132.7	187.5	313.8	536.0	984.6	1615.3	1827.0	1860.6
30°	124.2	141.1	142.1	158.4	266.9	480.7	998.8	1739.0	1946.5	1971.2
32.5°	107.4	102.2	105.8	122.7	234.8	448.6	1025.6	1846.9	2082.8	2100.2
35°	74.8	78.5	86.9	106.4	205.4	414.9	1032.5	1965.9	2212.3	2230.2
37.5°	69.0	71.1	78.0	90.6	180.6	395.9	1023.0	2052.8	2346.6	2371.4
40°	64.3	66.9	70.6	82.2	162.1	374.8	1009.8	2131.3	2428.7	2489.8
42.5°	60.6	62.7	65.9	78.5	146.3	353.8	991.4	2241.9	2502.5	2555.6
45°	56.3	59.5	63.2	76.4	137.4	339.6	977.7	2235.0	2545.1	2573.5
47.5°	52.1	57.4	61.6	71.1	134.8	332.8	983.5	2209.2	2510.4	2490.9
50°	47.9	54.7	62.1	59.0	128.5	319.1	990.4	2244.5	2427.7	2424.0
52.5°	44.2	52.1	57.9	48.4	114.3	305.9	1056.7	2290.8	2486.2	2437.1
55°	38.9	46.8	46.3	38.9	92.7	295.9	1108.8	2291.8	2446.6	2465.1
57.5°	35.2	41.6	36.3	32.6	68.5	247.4	1024.0	1921.7	2094.4	2127.1
60°	32.6	40.5	27.4	25.8	44.7	178.5	894.0	1488.4	1664.8	1726.4
62.5°	30.0	38.4	21.6	21.0	31.0	126.9	735.0	1245.7	1434.7	1518.4
65°	26.3	27.4	17.4	16.3	22.1	68.5	447.5	857.7	1072.4	1103.6
67.5°	21.6	21.0	14.2	13.2	14.7	33.1	197.5	429.6	621.8	673.9
70°	17.4	17.4	12.1	10.5	10.5	15.3	51.6	171.1	281.1	311.2
72.5°	12.6	13.2	9.5	8.4	7.9	7.4	8.4	34.2	73.7	94.3
75°	11.0	11.6	9.5	7.4	5.8	4.7	3.7	3.2	4.2	6.8
77.5°	12.1	12.1	10.0	6.8	5.3	3.7	2.1	1.1	1.1	0.5
80°	15.3	15.8	13.2	8.9	6.3	4.2	2.6	1.1	0.5	0.5
82.5°	16.3	17.9	14.7	11.0	7.9	4.7	2.6	0.5	0.0	0.0
85°	4.2	6.8	11.6	10.0	7.9	4.7	2.6	0.5	0.0	0.0
87.5°	0.0	0.5	1.6	1.6	2.1	2.1	1.6	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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