

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: P946710

Luminaire Tested: **GALN-SB2B-740-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2B-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9093 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

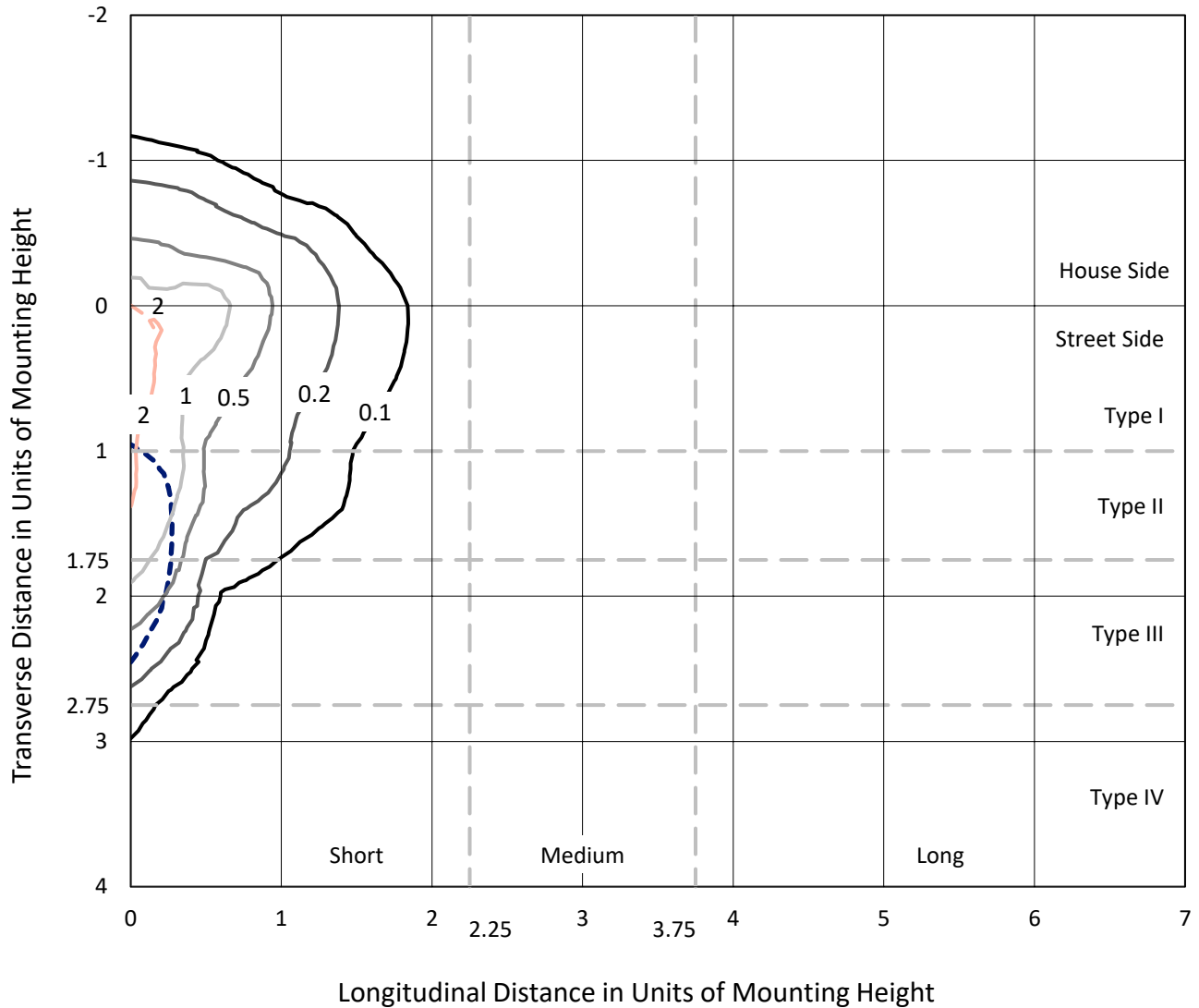
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

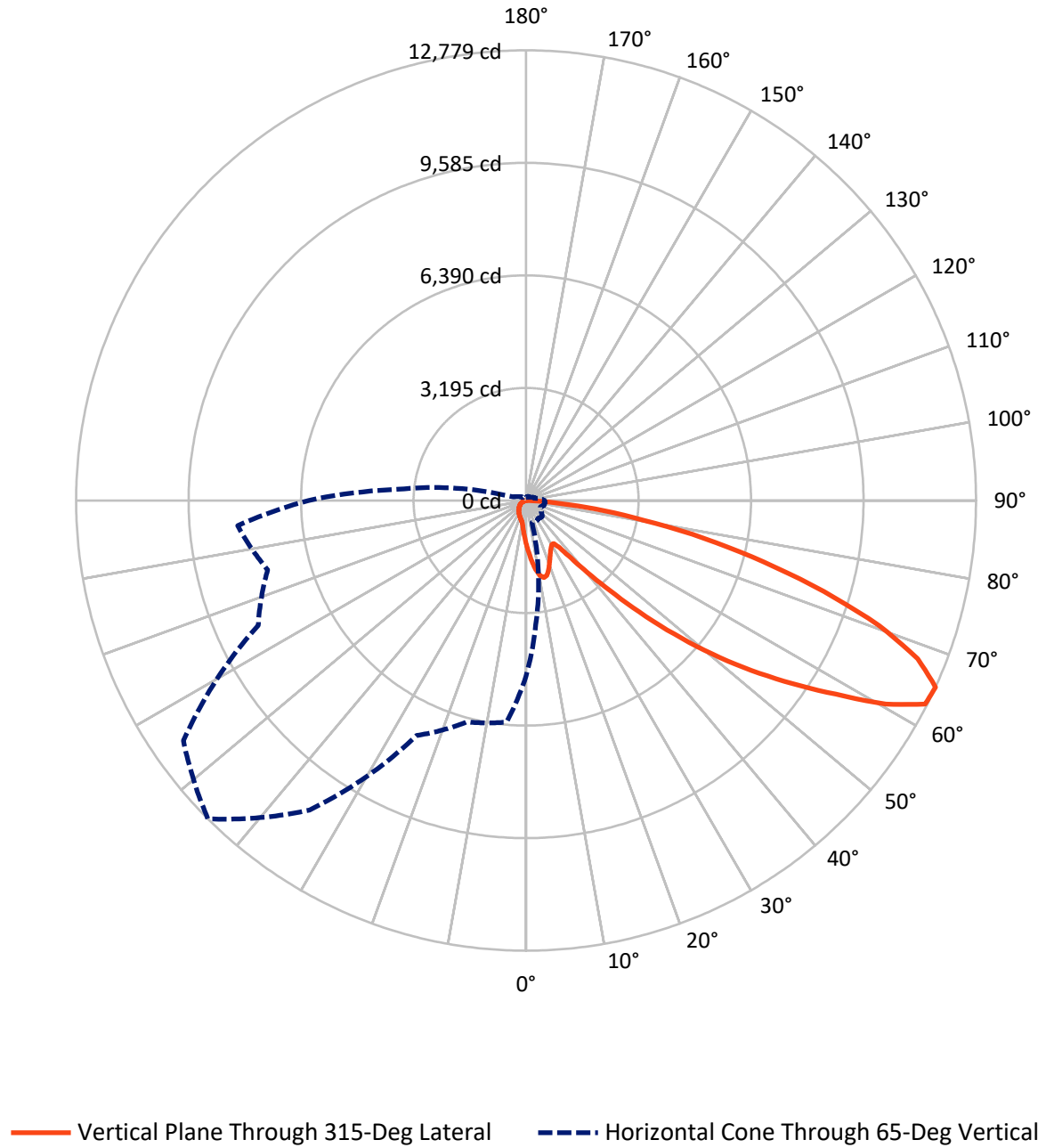
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1273.4	0.0	1273.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	7819.6	0.0	7819.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	9093.0	0.0	9093.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	1.4
10°-20°	371.6	4.1
20°-30°	547.4	6.0
30°-40°	703.3	7.7
40°-50°	1137.5	12.5
50°-60°	1994.7	21.9
60°-70°	2495.9	27.4
70°-80°	1458.5	16.0
80°-90°	260.2	2.9
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°	9093.0	100.0
0°-180°	9093.0	100.0

Coefficient of Utilization



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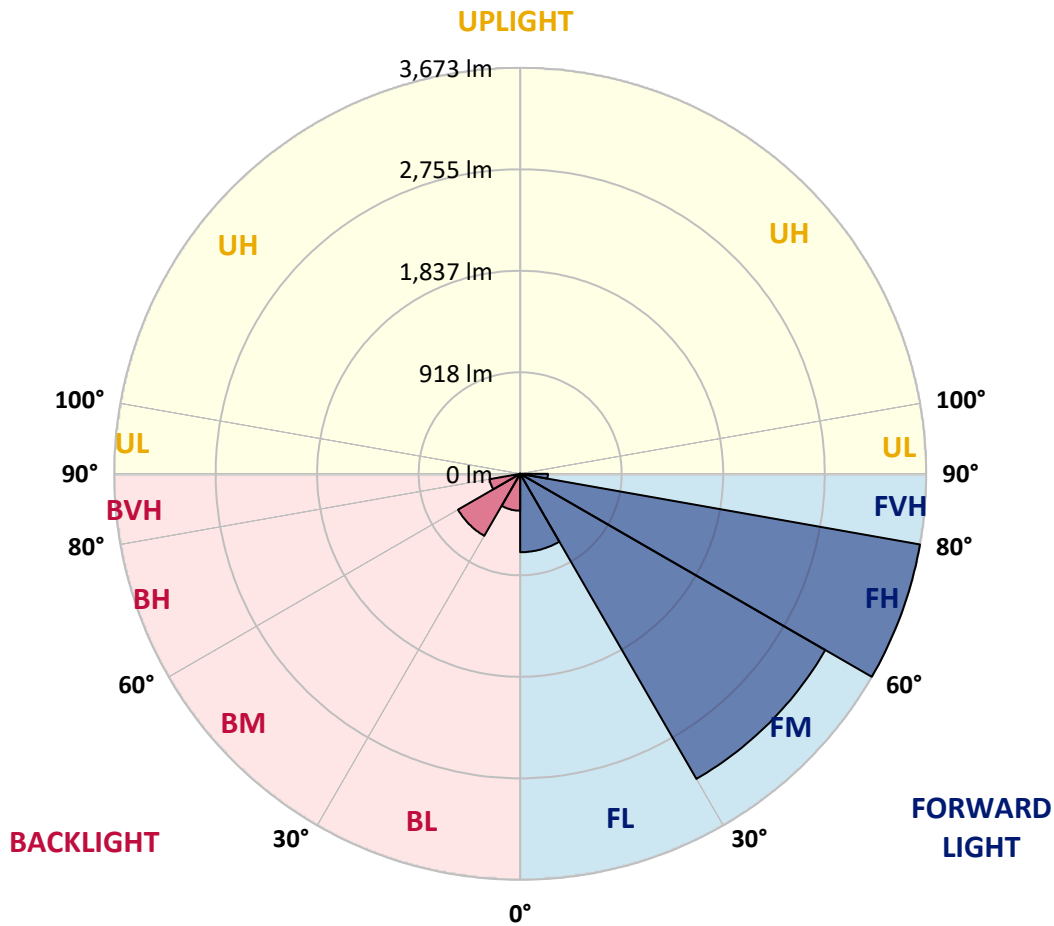
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	709.2	7.8			
FM (30°-60°)	3187.0	35.0			
FH (60°-80°)	3673.2	40.4			G2/5000
FVH (80°-90°)	250.2	2.8			G3/500
BL (0°-30°)	333.8	3.7	B1/500		
BM (30°-60°)	648.5	7.1	B1/1000		
BH (60°-80°)	281.2	3.1	B1/500		G1/500
BVH (80°-90°)	10.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1259.1	1259.1	1259.1	1259.1	1259.1	1259.1	1259.1	1259.1	1259.1	1259.1
2.5°	1422.6	1398.2	1383.7	1348.0	1312.3	1283.5	1244.7	1219.0	1188.3	1158.9
5°	1585.5	1546.0	1498.4	1433.2	1373.7	1313.0	1254.1	1195.8	1134.4	1078.1
7.5°	1723.3	1666.3	1582.3	1495.9	1420.1	1346.8	1277.9	1200.8	1126.3	1038.0
10°	1828.5	1755.8	1645.6	1532.2	1445.1	1371.2	1304.2	1239.0	1163.9	1057.4
12.5°	1892.4	1814.7	1683.8	1551.0	1451.4	1368.7	1316.7	1287.9	1258.5	1152.6
15°	1939.4	1855.4	1710.7	1564.2	1437.0	1335.5	1297.3	1326.1	1359.9	1292.3
17.5°	1988.2	1899.9	1745.8	1569.8	1398.2	1271.0	1254.7	1329.2	1407.5	1404.4
20°	2034.6	1946.9	1776.5	1566.0	1335.5	1192.7	1207.1	1302.3	1393.1	1431.4
22.5°	2087.8	1995.1	1805.9	1551.6	1254.1	1119.4	1164.5	1259.7	1339.3	1384.4
25°	2153.0	2055.9	1847.3	1530.3	1166.4	1058.6	1121.3	1210.2	1274.7	1306.1
27.5°	2223.1	2128.6	1902.4	1519.1	1095.6	1015.4	1072.4	1151.3	1209.0	1230.9
30°	2310.2	2213.1	1967.6	1506.5	1049.2	990.4	1021.7	1083.1	1139.4	1161.4
32.5°	2405.4	2307.1	2030.2	1476.5	1021.1	971.6	972.2	1011.0	1062.4	1088.7
35°	2524.4	2419.8	2097.2	1410.7	998.5	949.6	924.0	942.8	985.3	1016.7
37.5°	2694.2	2567.7	2179.3	1316.7	965.3	915.8	873.2	877.6	910.2	944.6
40°	2928.5	2766.2	2275.8	1219.0	917.7	868.2	817.5	815.6	839.4	873.2
42.5°	3245.4	3028.7	2391.6	1125.7	872.0	810.6	758.6	755.5	774.2	803.7
45°	3663.9	3364.5	2533.8	1045.5	836.3	754.2	702.8	701.6	717.2	742.9
47.5°	4199.5	3831.1	2676.0	991.0	817.5	709.7	657.1	659.6	673.4	696.6
50°	4892.9	4439.4	2719.3	963.4	817.5	685.9	616.4	628.9	640.2	657.7
52.5°	5724.2	5023.2	2576.4	938.4	822.5	689.1	581.9	608.9	617.0	632.1
55°	6494.6	5309.5	2215.0	903.9	823.7	708.5	552.5	592.6	607.6	613.3
57.5°	6941.9	5211.1	1790.9	845.7	818.7	721.6	533.7	572.5	601.4	605.1
60°	6856.7	4866.0	1318.6	801.2	781.8	716.6	528.1	541.8	587.6	593.2
62.5°	6200.2	4287.2	915.2	766.7	700.3	694.7	526.2	493.6	557.5	571.3
65°	4983.7	3375.1	646.5	660.2	613.9	647.1	516.2	443.5	521.2	540.0
67.5°	3615.7	2283.9	466.7	535.0	556.3	570.0	493.6	407.2	479.8	504.9
70°	2320.2	1233.4	327.6	353.3	468.6	484.2	454.8	374.6	437.9	466.7
72.5°	1649.3	728.5	235.5	247.4	376.5	403.4	400.3	338.3	389.0	424.1
75°	1138.2	401.5	159.1	176.6	273.1	327.6	308.8	290.7	329.5	365.2
77.5°	713.5	179.8	95.2	122.8	179.2	257.5	211.7	224.9	256.8	290.0
80°	397.1	69.5	53.2	81.4	97.7	187.3	117.1	144.7	189.2	213.0
82.5°	86.4	8.8	23.8	35.1	38.2	109.0	62.0	83.9	119.0	117.1
85°	0.0	0.0	4.4	5.0	2.5	47.0	22.6	27.6	38.8	36.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
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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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1259.1	0°	1259.1	1259.1	1259.1	1259.1	1259.1	1259.1	1259.1	1259.1	1259.1	1259.1
1132.6	2.5°	1127.5	1096.8	1074.3	1063.0	1053.6	1062.4	1067.4	1067.4	1088.7	1101.2
1043.6	5°	1021.7	966.6	924.6	896.4	879.5	885.1	891.4	898.3	925.2	943.4
991.0	7.5°	948.4	863.8	799.9	760.5	739.8	742.9	747.3	752.9	779.3	797.4
998.5	10°	934.6	813.1	722.9	670.9	645.8	641.4	638.9	637.1	652.7	666.5
1083.7	12.5°	991.0	815.6	689.7	626.4	595.7	582.6	567.5	555.6	558.1	566.9
1212.7	15°	1091.8	847.5	679.0	603.2	565.0	543.1	525.6	511.2	508.0	511.2
1325.5	17.5°	1207.1	890.8	677.8	583.2	535.6	513.0	498.6	485.5	481.1	481.7
1388.8	20°	1283.5	925.2	674.0	560.6	507.4	487.3	474.8	461.7	457.3	458.5
1371.2	22.5°	1291.0	943.4	668.4	535.6	479.2	462.3	449.8	437.9	437.2	437.2
1305.4	25°	1250.3	943.4	656.5	513.0	452.3	437.2	426.0	411.6	414.1	415.3
1230.9	27.5°	1187.1	920.8	633.9	494.9	429.1	413.4	402.2	389.0	392.1	394.0
1161.4	30°	1124.4	892.0	607.0	474.2	407.2	389.0	380.9	369.6	370.8	373.3
1092.5	32.5°	1066.2	861.3	575.0	457.3	385.2	367.1	360.8	348.3	350.2	352.7
1024.8	35°	1008.5	827.5	537.5	437.2	365.2	347.0	342.0	327.6	328.9	332.6
957.2	37.5°	946.5	791.8	506.8	417.2	345.8	327.0	322.0	306.9	308.2	312.6
887.0	40°	881.4	756.7	476.7	395.9	325.1	306.3	301.9	285.6	286.9	291.9
818.1	42.5°	815.6	718.5	453.5	368.3	303.8	283.8	279.4	264.3	266.2	271.9
758.0	45°	754.8	672.8	438.5	337.6	283.8	261.2	256.8	243.0	246.8	253.1
707.2	47.5°	702.8	625.8	432.2	312.0	262.5	238.0	234.3	223.0	229.3	236.2
664.0	50°	658.4	580.7	424.1	285.6	242.4	218.0	214.2	206.7	214.9	221.8
634.6	52.5°	626.4	529.3	406.5	261.8	224.9	201.1	199.8	196.1	203.6	209.8
612.6	55°	598.9	476.1	378.4	241.2	209.2	186.7	187.9	186.0	192.3	197.3
599.5	57.5°	573.8	429.7	342.6	224.9	192.3	174.1	177.9	175.4	178.5	181.7
585.7	60°	543.7	382.7	300.1	206.7	172.3	161.6	166.0	159.1	158.5	159.7
560.6	62.5°	499.3	319.5	255.6	184.2	154.7	147.8	149.7	136.6	126.5	126.5
523.7	65°	437.2	256.8	214.2	159.1	134.7	129.0	127.8	109.0	95.2	94.0
483.6	67.5°	365.2	211.1	177.9	134.1	112.1	108.4	109.6	95.8	82.1	80.8
443.5	70°	297.5	174.8	143.4	107.1	86.4	90.2	95.8	82.1	68.9	67.0
396.5	72.5°	241.8	139.1	112.1	82.1	63.9	74.5	81.4	67.0	54.5	53.2
338.3	75°	186.7	102.1	80.2	55.8	46.4	57.6	63.9	48.9	38.8	37.0
261.8	77.5°	124.7	63.3	45.1	35.1	27.6	39.5	42.6	25.7	22.6	21.9
190.4	80°	75.8	29.4	19.4	16.9	9.4	14.4	16.9	10.6	11.9	12.5
101.5	82.5°	38.2	8.1	3.1	0.6	0.0	0.0	5.0	2.5	5.0	6.3
27.6	85°	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.1
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

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CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
1259.1	0°	1259.1	1259.1	1259.1	1259.1	1259.1	1259.1	1259.1	1259.1	1259.1	1259.1
1106.2	2.5°	1141.3	1167.6	1192.7	1232.8	1274.1	1314.8	1356.2	1396.3	1410.7	1421.3
955.3	5°	1009.8	1059.3	1116.9	1196.4	1281.6	1369.3	1458.3	1539.7	1576.7	1601.7
813.1	7.5°	873.8	938.4	1021.1	1140.7	1274.1	1413.8	1553.5	1681.9	1741.4	1789.7
679.0	10°	739.2	809.3	913.9	1050.5	1230.9	1431.4	1624.3	1800.9	1878.0	1938.7
582.6	12.5°	620.8	686.5	796.2	947.1	1163.2	1417.6	1665.0	1877.4	1968.2	2036.5
513.7	15°	537.5	583.8	680.9	843.8	1083.1	1373.1	1667.5	1913.7	2013.3	2084.7
484.8	17.5°	491.1	506.8	570.0	738.5	994.1	1314.8	1644.3	1926.2	2032.7	2099.1
459.2	20°	466.1	468.6	486.1	602.0	880.1	1260.3	1622.4	1938.7	2050.9	2106.6
441.0	22.5°	446.0	446.0	450.4	492.4	732.9	1195.2	1615.5	1960.7	2075.9	2110.4
420.3	25°	427.8	427.8	429.1	440.4	580.7	1095.6	1611.1	1994.5	2110.4	2119.8
399.7	27.5°	409.0	409.7	409.7	415.9	467.9	960.3	1592.3	2038.3	2151.7	2132.3
379.6	30°	390.3	391.5	391.5	395.9	414.1	801.8	1555.4	2091.0	2205.6	2148.6
359.6	32.5°	371.5	372.7	372.7	376.5	389.6	640.2	1509.0	2139.2	2260.1	2155.5
340.1	35°	352.0	353.9	352.7	357.7	371.5	509.3	1450.1	2187.4	2319.0	2177.4
321.3	37.5°	332.6	333.9	333.3	338.3	353.9	439.7	1381.9	2223.8	2399.2	2226.3
301.3	40°	313.2	312.6	312.6	318.2	335.1	419.7	1296.0	2281.4	2514.4	2312.1
281.3	42.5°	293.2	293.2	291.9	298.2	318.8	404.7	1214.0	2384.8	2682.3	2448.6
262.5	45°	275.0	274.4	271.9	277.5	303.2	378.4	1185.2	2577.7	2930.4	2669.8
243.7	47.5°	257.5	256.8	250.6	255.6	284.4	354.5	1292.9	2893.4	3274.3	2994.9
228.6	50°	241.8	242.4	230.5	234.9	265.6	336.4	1526.6	3303.1	3730.9	3432.7
216.1	52.5°	227.4	227.4	211.7	214.2	242.4	320.1	1748.9	3747.2	4333.5	4043.5
203.0	55°	213.0	211.7	194.2	195.4	219.2	296.9	1782.1	4180.7	5155.4	4962.4
188.6	57.5°	196.7	194.2	177.9	177.9	197.9	280.0	1544.7	4513.9	6175.2	6313.0
161.6	60°	176.6	174.8	164.1	161.0	181.0	295.0	1090.0	4552.8	6832.9	8108.9
128.4	62.5°	151.0	153.5	147.8	143.4	164.7	306.3	645.8	4240.2	6673.8	8680.2
99.6	65°	119.0	129.0	127.8	124.7	181.0	258.1	381.5	3640.1	6185.8	8219.2
87.1	67.5°	101.5	108.4	106.5	106.5	189.8	196.1	239.9	2843.9	5514.3	7672.3
72.7	70°	86.4	93.3	86.4	86.4	143.4	119.0	166.0	1985.7	4789.6	7067.2
58.3	72.5°	71.4	78.3	70.8	65.8	114.6	89.0	121.5	1240.9	4101.8	6437.0
41.3	75°	54.5	62.6	57.0	50.7	75.8	66.4	92.1	721.0	3398.3	5507.4
25.1	77.5°	34.5	45.1	42.6	35.7	55.8	48.2	66.4	429.1	2622.2	4303.5
15.0	80°	21.3	23.2	23.8	22.6	31.9	32.6	45.1	244.3	1794.7	2999.3
9.4	82.5°	13.8	13.8	10.6	11.9	15.7	18.8	25.7	92.1	1054.9	1826.0
5.6	85°	10.0	8.8	5.6	5.6	7.5	9.4	10.0	28.2	427.8	721.0
2.5	87.5°	5.0	4.4	1.9	2.5	3.8	3.1	2.5	1.3	107.7	230.5
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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CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
1259.1	0°	1259.1	1259.1	1259.1	1259.1	1259.1	1259.1	1259.1	1259.1
1445.1	2.5°	1457.7	1477.1	1478.3	1478.3	1461.4	1460.8	1426.3	1422.6
1658.1	5°	1716.4	1728.9	1732.0	1725.8	1691.9	1666.9	1599.9	1585.5
1875.5	7.5°	1953.2	1978.2	1978.2	1963.2	1908.1	1856.7	1759.6	1723.3
2055.3	10°	2142.3	2171.1	2164.9	2134.2	2064.7	1993.9	1876.1	1828.5
2164.3	12.5°	2234.4	2263.9	2247.6	2212.5	2144.8	2070.3	1946.3	1892.4
2195.6	15°	2232.5	2224.4	2207.5	2203.1	2170.5	2114.1	1998.3	1939.4
2176.2	17.5°	2153.0	2084.1	2070.9	2114.8	2156.1	2142.3	2043.4	1988.2
2129.8	20°	2027.1	1906.8	1894.9	1978.8	2096.6	2156.7	2085.3	2034.6
2062.8	22.5°	1894.3	1764.6	1737.0	1829.8	2007.0	2161.1	2138.6	2087.8
1988.9	25°	1768.4	1638.1	1610.5	1697.0	1907.4	2153.6	2196.2	2153.0
1918.1	27.5°	1663.1	1537.2	1511.5	1598.0	1811.6	2132.3	2253.8	2223.1
1847.9	30°	1581.7	1465.2	1446.4	1529.7	1728.9	2106.0	2327.1	2310.2
1782.8	32.5°	1534.1	1448.9	1455.8	1524.1	1684.4	2077.2	2397.3	2405.4
1750.8	35°	1581.1	1584.8	1645.0	1673.1	1725.8	2072.8	2492.5	2524.4
1789.0	37.5°	1814.7	1945.0	2069.7	2046.5	1928.1	2123.5	2634.7	2694.2
1955.7	40°	2212.5	2480.0	2682.3	2594.0	2295.8	2278.9	2839.5	2928.5
2251.3	42.5°	2698.6	3152.1	3485.4	3248.6	2770.0	2550.8	3132.1	3245.4
2609.0	45°	3211.6	3980.9	4505.8	4013.4	3275.5	2931.6	3574.9	3663.9
2944.1	47.5°	3752.2	4988.1	5667.2	4861.6	3744.1	3365.1	4178.8	4199.5
3261.7	50°	4343.5	6092.5	6851.1	5709.1	4196.3	3861.8	4916.7	4892.9
3631.9	52.5°	4906.7	7228.2	8009.9	6560.4	4593.5	4478.2	5773.0	5724.2
4138.1	55°	5444.2	8363.2	9175.7	7378.5	4968.1	5292.6	6790.3	6494.6
4867.9	57.5°	6067.4	9383.7	10377.2	8200.4	5491.8	6349.9	7927.9	6941.9
6265.4	60°	6988.9	10543.2	11735.8	9326.7	6487.8	7461.2	8335.7	6856.7
7939.2	62.5°	8165.3	11609.3	12723.7	10430.4	7488.1	7670.4	7734.9	6200.2
7597.8	65°	8393.9	11879.3	12779.4	10725.4	7359.1	6506.5	6314.9	4983.7
6786.6	67.5°	7787.6	11391.3	12000.2	10176.1	6509.7	5028.2	4738.8	3615.7
6254.1	70°	7107.3	10461.1	10642.1	9242.1	5725.4	3698.3	3200.3	2320.2
5889.5	72.5°	6410.1	9220.2	8845.6	8026.2	5032.0	2692.9	2308.3	1649.3
5370.2	75°	5582.0	7588.4	6967.6	6668.8	4166.3	2113.5	1670.0	1138.2
4619.2	77.5°	4470.1	5341.4	5175.4	5169.2	3130.8	1544.1	1114.4	713.5
3608.8	80°	3153.4	3466.6	3382.0	3893.2	2100.4	1120.0	670.9	397.1
2511.9	82.5°	1526.6	1916.8	1967.6	2318.4	1021.7	659.0	154.7	86.4
982.2	85°	597.6	924.6	779.9	880.1	286.9	183.5	3.8	0.0
161.6	87.5°	67.0	107.1	98.3	77.7	35.1	7.5	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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