

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: P950637

Luminaire Tested: **GALN-SB5A-740-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950637
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-SB5A-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 350mA 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: 18296 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

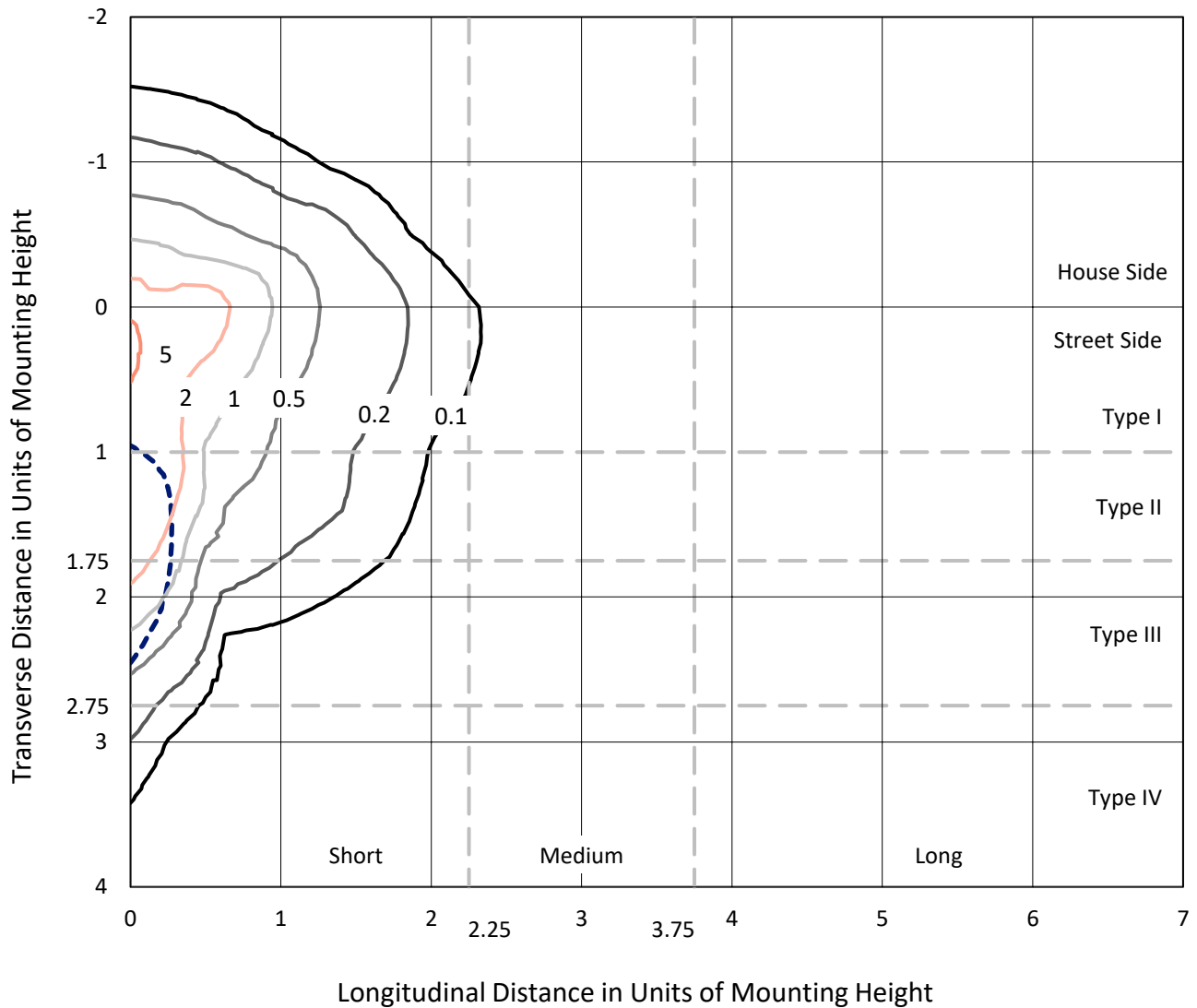
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

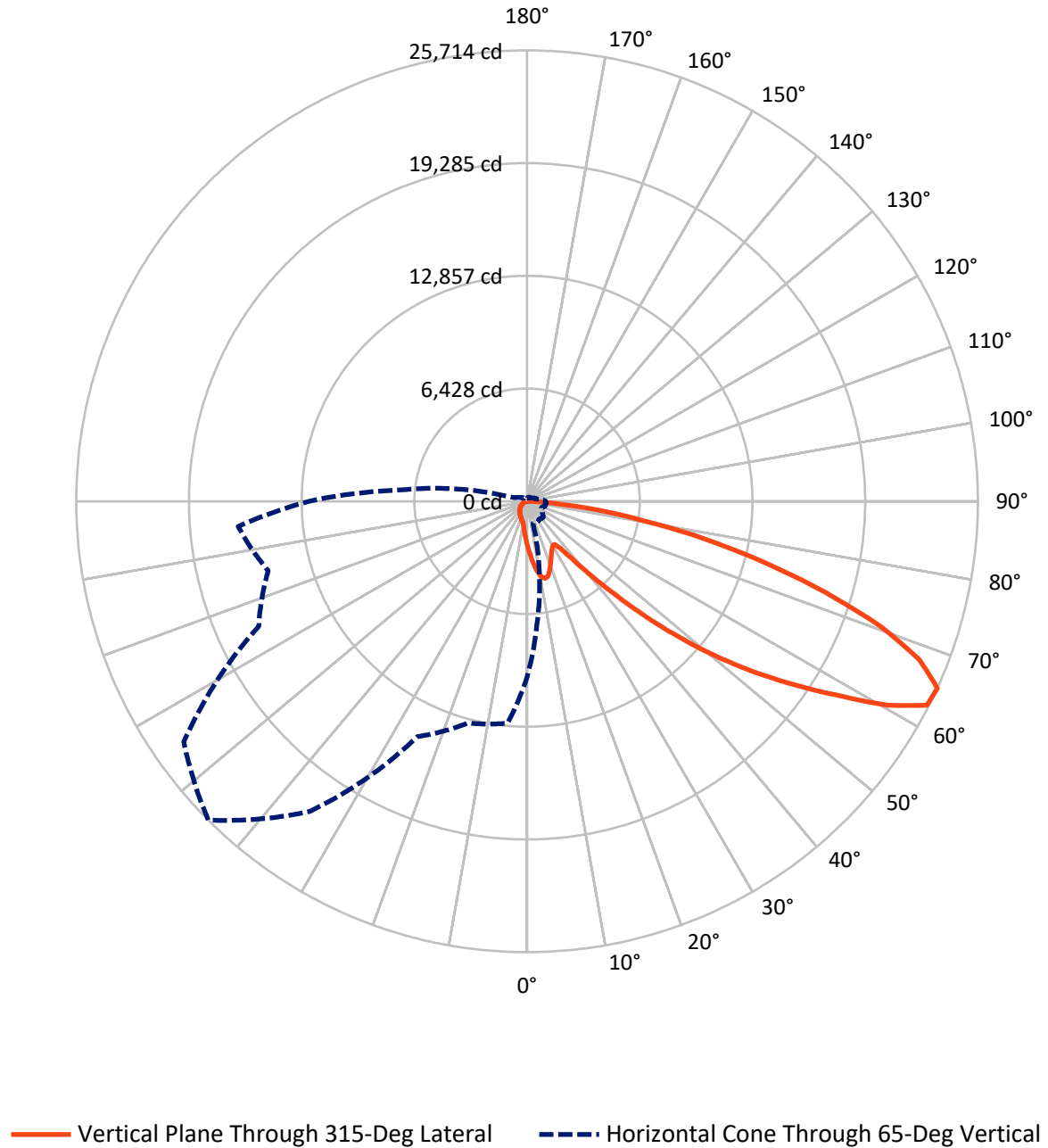
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	2562.2	0.0	2562.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	15733.8	0.0	15733.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	18296.0	0.0	18296.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.4	1.4
10°-20°	747.7	4.1
20°-30°	1101.5	6.0
30°-40°	1415.1	7.7
40°-50°	2288.7	12.5
50°-60°	4013.4	21.9
60°-70°	5021.9	27.4
70°-80°	2934.6	16.0
80°-90°	523.6	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°	18296.0	100.0
0°-180°	18296.0	100.0

Coefficient of Utilization



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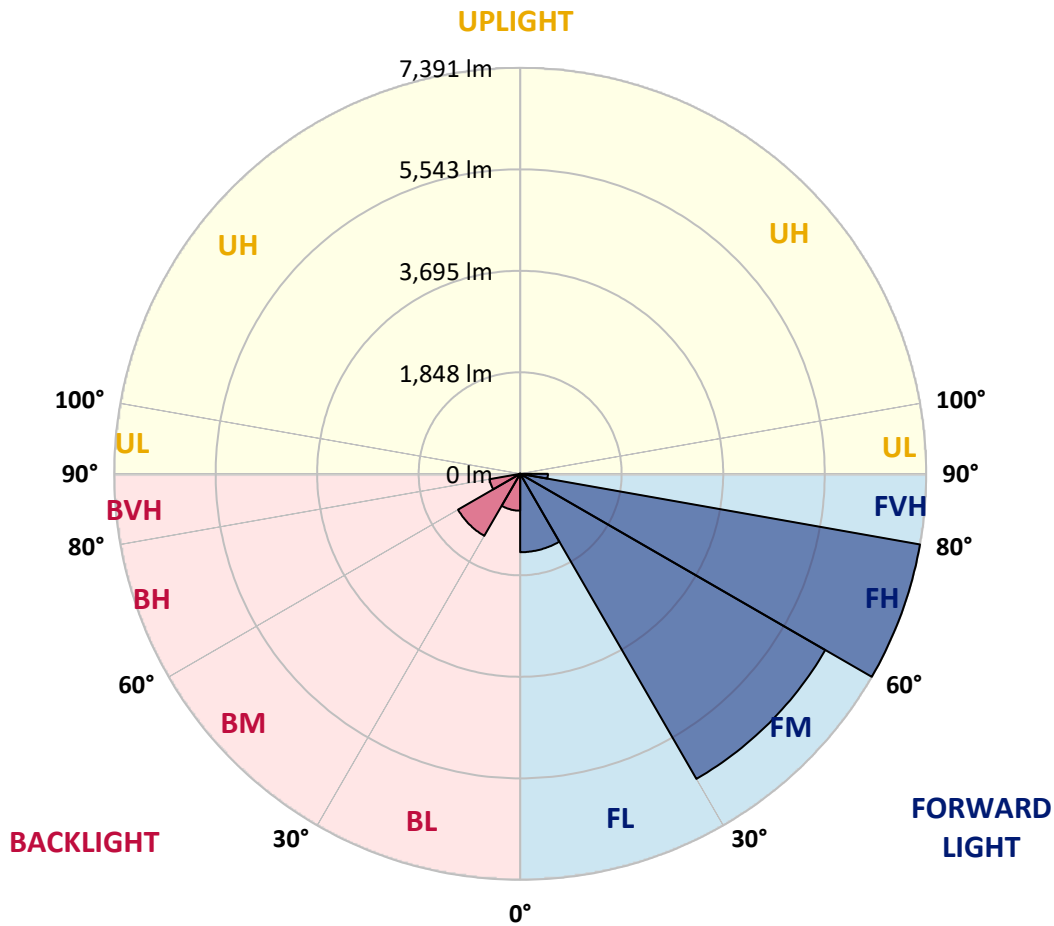
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1427.0	7.8			
FM (30°-60°)	6412.5	35.0			
FH (60°-80°)	7390.8	40.4			G3/7500
FVH (80°-90°)	503.5	2.8			G4/750
BL (0°-30°)	671.6	3.7	B2/1000		
BM (30°-60°)	1304.7	7.1	B2/2500		
BH (60°-80°)	565.8	3.1	B2/1000		G2/1000
BVH (80°-90°)	20.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4
2.5°	2862.4	2813.2	2784.2	2712.4	2640.5	2582.6	2504.4	2452.7	2391.0	2331.7
5°	3190.1	3110.7	3014.9	2883.8	2764.1	2641.8	2523.3	2406.1	2282.6	2169.2
7.5°	3467.4	3352.7	3183.8	3009.8	2857.3	2709.9	2571.2	2416.2	2266.2	2088.5
10°	3679.1	3532.9	3311.1	3082.9	2907.8	2759.0	2624.2	2493.1	2341.8	2127.6
12.5°	3807.7	3651.4	3388.0	3120.8	2920.4	2754.0	2649.4	2591.4	2532.2	2319.1
15°	3902.2	3733.3	3442.2	3147.2	2891.4	2687.2	2610.3	2668.3	2736.3	2600.2
17.5°	4000.5	3822.8	3512.7	3158.6	2813.2	2557.4	2524.6	2674.6	2832.1	2825.8
20°	4093.8	3917.3	3574.5	3151.0	2687.2	2399.8	2428.8	2620.4	2803.1	2880.0
22.5°	4200.9	4014.4	3633.7	3122.0	2523.3	2252.3	2343.1	2534.7	2694.7	2785.5
25°	4332.0	4136.6	3716.9	3079.2	2346.9	2130.1	2256.1	2435.1	2564.9	2627.9
27.5°	4473.2	4282.9	3827.8	3056.5	2204.4	2043.1	2157.8	2316.6	2432.6	2476.7
30°	4648.4	4453.0	3958.9	3031.3	2111.2	1992.7	2055.7	2179.2	2292.7	2336.8
32.5°	4839.9	4642.1	4085.0	2970.8	2054.5	1954.9	1956.1	2034.3	2137.6	2190.6
35°	5079.4	4868.9	4219.8	2838.4	2009.1	1910.8	1859.1	1896.9	1982.6	2045.6
37.5°	5421.0	5166.4	4384.9	2649.4	1942.3	1842.7	1757.0	1765.8	1831.4	1900.7
40°	5892.4	5565.9	4579.0	2452.7	1846.5	1746.9	1644.8	1641.0	1688.9	1757.0
42.5°	6530.1	6094.0	4812.2	2264.9	1754.5	1631.0	1526.3	1520.0	1557.9	1617.1
45°	7372.1	6769.6	5098.3	2103.6	1682.6	1517.5	1414.2	1411.7	1443.2	1494.8
47.5°	8449.7	7708.6	5384.4	1994.0	1644.8	1428.0	1322.2	1327.2	1354.9	1401.6
50°	9845.0	8932.5	5471.4	1938.5	1644.8	1380.1	1240.2	1265.4	1288.1	1323.4
52.5°	11517.6	10107.2	5184.0	1888.1	1654.9	1386.4	1170.9	1225.1	1241.5	1271.7
55°	13067.9	10683.2	4456.8	1818.8	1657.4	1425.5	1111.7	1192.3	1222.6	1233.9
57.5°	13967.8	10485.3	3603.5	1701.5	1647.3	1452.0	1073.9	1152.0	1210.0	1217.5
60°	13796.4	9790.8	2653.1	1612.1	1573.0	1441.9	1062.5	1090.2	1182.3	1193.6
62.5°	12475.5	8626.2	1841.4	1542.7	1409.1	1397.8	1058.7	993.2	1121.8	1149.5
65°	10027.8	6791.1	1300.7	1328.5	1235.2	1302.0	1038.6	892.4	1048.7	1086.5
67.5°	7275.0	4595.4	939.0	1076.4	1119.2	1147.0	993.2	819.3	965.5	1015.9
70°	4668.5	2481.7	659.2	710.9	942.8	974.3	915.1	753.7	881.0	939.0
72.5°	3318.6	1465.8	473.9	497.9	757.5	811.7	805.4	680.6	782.7	853.3
75°	2290.2	807.9	320.1	355.4	549.5	659.2	621.4	584.8	663.0	734.8
77.5°	1435.6	361.7	191.6	247.0	360.5	518.0	426.0	452.5	516.8	583.6
80°	799.1	139.9	107.1	163.9	196.6	376.9	235.7	291.2	380.6	428.5
82.5°	173.9	17.6	47.9	70.6	76.9	219.3	124.8	168.9	239.5	235.7
85°	0.0	0.0	8.8	10.1	5.0	94.5	45.4	55.5	78.1	73.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
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°
2533.4	0°	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4
2278.8	2.5°	2268.7	2207.0	2161.6	2138.9	2120.0	2137.6	2147.7	2147.7	2190.6	2215.8
2099.8	5°	2055.7	1944.8	1860.4	1803.6	1769.6	1780.9	1793.6	1807.4	1861.6	1898.2
1994.0	7.5°	1908.3	1738.1	1609.5	1530.1	1488.5	1494.8	1503.7	1515.0	1567.9	1604.5
2009.1	10°	1880.5	1636.0	1454.5	1349.9	1299.5	1290.7	1285.6	1281.8	1313.3	1341.1
2180.5	12.5°	1994.0	1641.0	1387.7	1260.4	1198.6	1172.2	1141.9	1118.0	1123.0	1140.7
2440.1	15°	2196.9	1705.3	1366.3	1213.8	1136.9	1092.8	1057.5	1028.5	1022.2	1028.5
2667.0	17.5°	2428.8	1792.3	1363.8	1173.4	1077.6	1032.3	1003.3	976.8	968.0	969.3
2794.3	20°	2582.6	1861.6	1356.2	1128.1	1020.9	980.6	955.4	928.9	920.1	922.6
2759.0	22.5°	2597.7	1898.2	1344.9	1077.6	964.2	930.2	905.0	881.0	879.8	879.8
2626.7	25°	2515.8	1898.2	1320.9	1032.3	910.0	879.8	857.1	828.1	833.1	835.6
2476.7	27.5°	2388.5	1852.8	1275.5	995.7	863.4	831.9	809.2	782.7	789.0	792.8
2336.8	30°	2262.4	1794.8	1221.3	954.1	819.3	782.7	766.3	743.6	746.2	751.2
2198.1	32.5°	2145.2	1733.1	1157.1	920.1	775.1	738.6	726.0	700.8	704.6	709.6
2062.0	35°	2029.2	1665.0	1081.4	879.8	734.8	698.3	688.2	659.2	661.7	669.3
1925.9	37.5°	1904.5	1593.1	1019.7	839.4	695.7	657.9	647.8	617.6	620.1	628.9
1784.7	40°	1773.4	1522.6	959.2	796.6	654.1	616.3	607.5	574.7	577.3	587.3
1646.1	42.5°	1641.0	1445.7	912.5	741.1	611.3	571.0	562.1	531.9	535.7	547.0
1525.1	45°	1518.8	1353.7	882.3	679.4	571.0	525.6	516.8	489.0	496.6	509.2
1423.0	47.5°	1414.2	1259.1	869.7	627.7	528.1	479.0	471.4	448.7	461.3	475.2
1336.0	50°	1324.7	1168.4	853.3	574.7	487.8	438.6	431.1	415.9	432.3	446.2
1276.8	52.5°	1260.4	1065.0	818.0	526.8	452.5	404.6	402.1	394.5	409.6	422.2
1232.7	55°	1204.9	957.9	761.3	485.3	421.0	375.6	378.1	374.3	386.9	397.0
1206.2	57.5°	1154.5	864.6	689.4	452.5	386.9	350.4	358.0	352.9	359.2	365.5
1178.5	60°	1094.0	770.1	603.7	415.9	346.6	325.2	334.0	320.1	318.9	321.4
1128.1	62.5°	1004.5	642.8	514.2	370.6	311.3	297.5	301.2	274.8	254.6	254.6
1053.7	65°	879.8	516.8	431.1	320.1	271.0	259.6	257.1	219.3	191.6	189.1
973.0	67.5°	734.8	424.8	358.0	269.7	225.6	218.0	220.6	192.8	165.1	162.6
892.4	70°	598.7	351.7	288.6	215.5	173.9	181.5	192.8	165.1	138.6	134.9
797.8	72.5°	486.5	279.8	225.6	165.1	128.6	150.0	163.9	134.9	109.7	107.1
680.6	75°	375.6	205.4	161.3	112.2	93.3	116.0	128.6	98.3	78.1	74.4
526.8	77.5°	250.8	127.3	90.7	70.6	55.5	79.4	85.7	51.7	45.4	44.1
383.2	80°	152.5	59.2	39.1	34.0	18.9	29.0	34.0	21.4	23.9	25.2
204.2	82.5°	76.9	16.4	6.3	1.3	0.0	0.0	10.1	5.0	10.1	12.6
55.5	85°	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	6.3
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°
2533.4	0°	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4
2225.9	2.5°	2296.5	2349.4	2399.8	2480.5	2563.7	2645.6	2728.8	2809.4	2838.4	2859.9
1922.1	5°	2031.8	2131.3	2247.3	2407.4	2578.8	2755.2	2934.2	3098.1	3172.4	3222.9
1636.0	7.5°	1758.3	1888.1	2054.5	2295.2	2563.7	2844.7	3125.8	3384.2	3503.9	3601.0
1366.3	10°	1487.3	1628.4	1838.9	2113.7	2476.7	2880.0	3268.2	3623.7	3778.7	3900.9
1172.2	12.5°	1249.1	1381.4	1602.0	1905.7	2340.6	2852.3	3350.2	3777.4	3960.2	4097.6
1033.5	15°	1081.4	1174.7	1370.1	1697.8	2179.2	2762.8	3355.2	3850.5	4050.9	4194.6
975.6	17.5°	988.2	1019.7	1147.0	1486.0	2000.3	2645.6	3308.6	3875.7	4090.0	4223.6
923.9	20°	937.7	942.8	978.1	1211.2	1770.9	2535.9	3264.4	3900.9	4126.6	4238.7
887.3	22.5°	897.4	897.4	906.2	990.7	1474.7	2404.8	3250.6	3945.1	4177.0	4246.3
845.7	25°	860.9	860.9	863.4	886.1	1168.4	2204.4	3241.8	4013.1	4246.3	4265.2
804.1	27.5°	823.0	824.3	824.3	836.9	941.5	1932.2	3203.9	4101.4	4329.5	4290.4
763.8	30°	785.2	787.8	787.8	796.6	833.1	1613.3	3129.6	4207.2	4437.9	4323.2
723.5	32.5°	747.4	749.9	749.9	757.5	784.0	1288.1	3036.3	4304.3	4547.5	4337.0
684.4	35°	708.3	712.1	709.6	719.7	747.4	1024.7	2917.8	4401.3	4666.0	4381.2
646.6	37.5°	669.3	671.8	670.5	680.6	712.1	884.8	2780.4	4474.4	4827.3	4479.5
606.3	40°	630.2	628.9	628.9	640.3	674.3	844.5	2607.8	4590.4	5059.3	4652.1
565.9	42.5°	589.9	589.9	587.3	600.0	641.5	814.2	2442.7	4798.4	5397.0	4926.9
528.1	45°	553.3	552.1	547.0	558.4	610.0	761.3	2384.7	5186.6	5896.2	5371.8
490.3	47.5°	518.0	516.8	504.2	514.2	572.2	713.4	2601.5	5821.8	6588.1	6026.0
460.0	50°	486.5	487.8	463.8	472.7	534.4	676.8	3071.6	6646.1	7507.0	6907.0
434.8	52.5°	457.5	457.5	426.0	431.1	487.8	644.1	3519.0	7539.7	8719.5	8135.9
408.4	55°	428.5	426.0	390.7	393.2	441.1	597.4	3585.8	8411.9	10373.1	9984.9
379.4	57.5°	395.8	390.7	358.0	358.0	398.3	563.4	3108.2	9082.5	12425.1	12702.3
325.2	60°	355.4	351.7	330.2	323.9	364.3	593.6	2193.1	9160.6	13748.5	16315.9
258.4	62.5°	303.8	308.8	297.5	288.6	331.5	616.3	1299.5	8531.7	13428.3	17465.4
200.4	65°	239.5	259.6	257.1	250.8	364.3	519.3	767.6	7324.2	12446.5	16537.8
175.2	67.5°	204.2	218.0	214.3	214.3	381.9	394.5	482.7	5722.2	11095.3	15437.4
146.2	70°	173.9	187.8	173.9	173.9	288.6	239.5	334.0	3995.5	9637.0	14219.9
117.2	72.5°	143.7	157.6	142.4	132.3	230.7	179.0	244.5	2496.9	8253.1	12951.9
83.2	75°	109.7	126.0	114.7	102.1	152.5	133.6	185.3	1450.7	6837.7	11081.5
50.4	77.5°	69.3	90.7	85.7	71.8	112.2	97.1	133.6	863.4	5276.0	8659.0
30.2	80°	42.9	46.6	47.9	45.4	64.3	65.5	90.7	491.6	3611.1	6034.8
18.9	82.5°	27.7	27.7	21.4	23.9	31.5	37.8	51.7	185.3	2122.5	3674.1
11.3	85°	20.2	17.6	11.3	11.3	15.1	18.9	20.2	56.7	860.9	1450.7
5.0	87.5°	10.1	8.8	3.8	5.0	7.6	6.3	5.0	2.5	216.8	463.8
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°
2533.4	0°	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4	2533.4
2907.8	2.5°	2933.0	2972.0	2974.6	2974.6	2940.5	2939.3	2869.9	2862.4
3336.3	5°	3453.5	3478.7	3485.0	3472.4	3404.3	3353.9	3219.1	3190.1
3773.6	7.5°	3929.9	3980.4	3980.4	3950.1	3839.2	3735.8	3540.5	3467.4
4135.4	10°	4310.6	4368.6	4356.0	4294.2	4154.3	4011.9	3774.9	3679.1
4354.7	12.5°	4495.9	4555.1	4522.3	4451.7	4315.6	4165.6	3916.1	3807.7
4417.7	15°	4492.1	4475.7	4441.7	4432.8	4367.3	4253.9	4020.7	3902.2
4378.6	17.5°	4332.0	4193.4	4166.9	4255.1	4338.3	4310.6	4111.4	4000.5
4285.4	20°	4078.7	3836.7	3812.7	3981.6	4218.6	4339.6	4195.9	4093.8
4150.5	22.5°	3811.5	3550.6	3495.1	3681.6	4038.3	4348.4	4303.0	4200.9
4001.8	25°	3558.1	3296.0	3240.5	3414.4	3837.9	4333.3	4419.0	4332.0
3859.4	27.5°	3346.4	3093.0	3041.4	3215.3	3645.1	4290.4	4534.9	4473.2
3718.2	30°	3182.5	2948.1	2910.3	3077.9	3478.7	4237.5	4682.4	4648.4
3587.1	32.5°	3086.7	2915.3	2929.2	3066.6	3389.2	4179.5	4823.6	4839.9
3522.8	35°	3181.3	3188.8	3309.8	3366.5	3472.4	4170.7	5015.1	5079.4
3599.7	37.5°	3651.4	3913.6	4164.4	4117.7	3879.5	4272.8	5301.3	5421.0
3935.0	40°	4451.7	4989.9	5397.0	5219.3	4619.4	4585.3	5713.4	5892.4
4529.9	42.5°	5429.8	6342.3	7012.9	6536.5	5573.5	5132.4	6302.0	6530.1
5249.6	45°	6462.1	8009.9	9066.1	8075.4	6590.6	5898.7	7193.1	7372.1
5923.9	47.5°	7549.8	10036.6	11402.9	9782.0	7533.4	6770.9	8408.2	8449.7
6562.9	50°	8739.6	12258.7	13785.0	11487.3	8443.4	7770.4	9892.9	9845.0
7307.8	52.5°	9872.7	14543.8	16116.8	13200.2	9242.5	9010.6	11615.9	11517.6
8326.2	55°	10954.2	16827.6	18462.4	14846.3	9996.3	10649.1	13662.8	13067.9
9794.6	57.5°	12208.3	18880.8	20879.8	16499.9	11050.0	12776.7	15951.7	13967.8
12606.6	60°	14062.3	21213.8	23613.7	18766.1	13054.0	15012.7	16772.2	13796.4
15974.4	62.5°	16429.4	23359.1	25601.3	20987.0	15066.9	15433.6	15563.5	12475.5
15287.4	65°	16889.4	23902.3	25713.5	21580.6	14807.2	13091.8	12706.1	10027.8
13655.2	67.5°	15669.3	22920.4	24145.5	20475.3	13098.1	10117.3	9535.0	7275.0
12583.9	70°	14300.5	21048.7	21413.0	18596.0	11520.1	7441.4	6439.4	4668.5
11850.3	72.5°	12897.7	18551.9	17798.2	16149.5	10124.8	5418.5	4644.6	3318.6
10805.4	75°	11231.5	15268.5	14019.5	13418.3	8382.9	4252.6	3360.2	2290.2
9294.2	77.5°	8994.2	10747.5	10413.5	10400.8	6299.5	3106.9	2242.3	1435.6
7261.2	80°	6344.9	6975.1	6804.9	7833.4	4226.1	2253.6	1349.9	799.1
5054.2	82.5°	3071.6	3856.8	3958.9	4664.8	2055.7	1325.9	311.3	173.9
1976.3	85°	1202.4	1860.4	1569.2	1770.9	577.3	369.3	7.6	0.0
325.2	87.5°	134.9	215.5	197.9	156.3	70.6	15.1	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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