

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: P956517

Luminaire Tested: **GALN-SB9A-927-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956517
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-SB9A-927-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 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: 18981 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

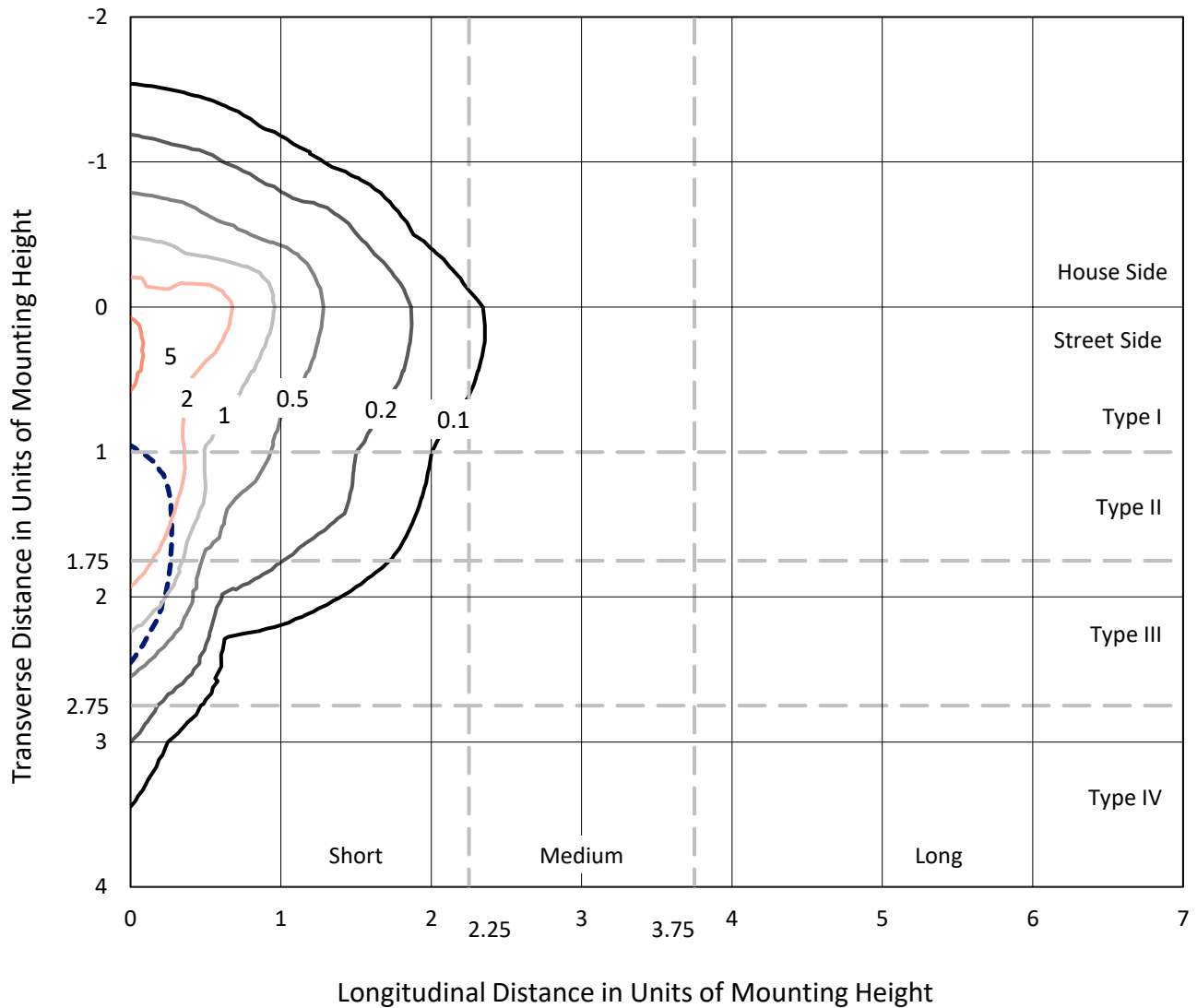
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

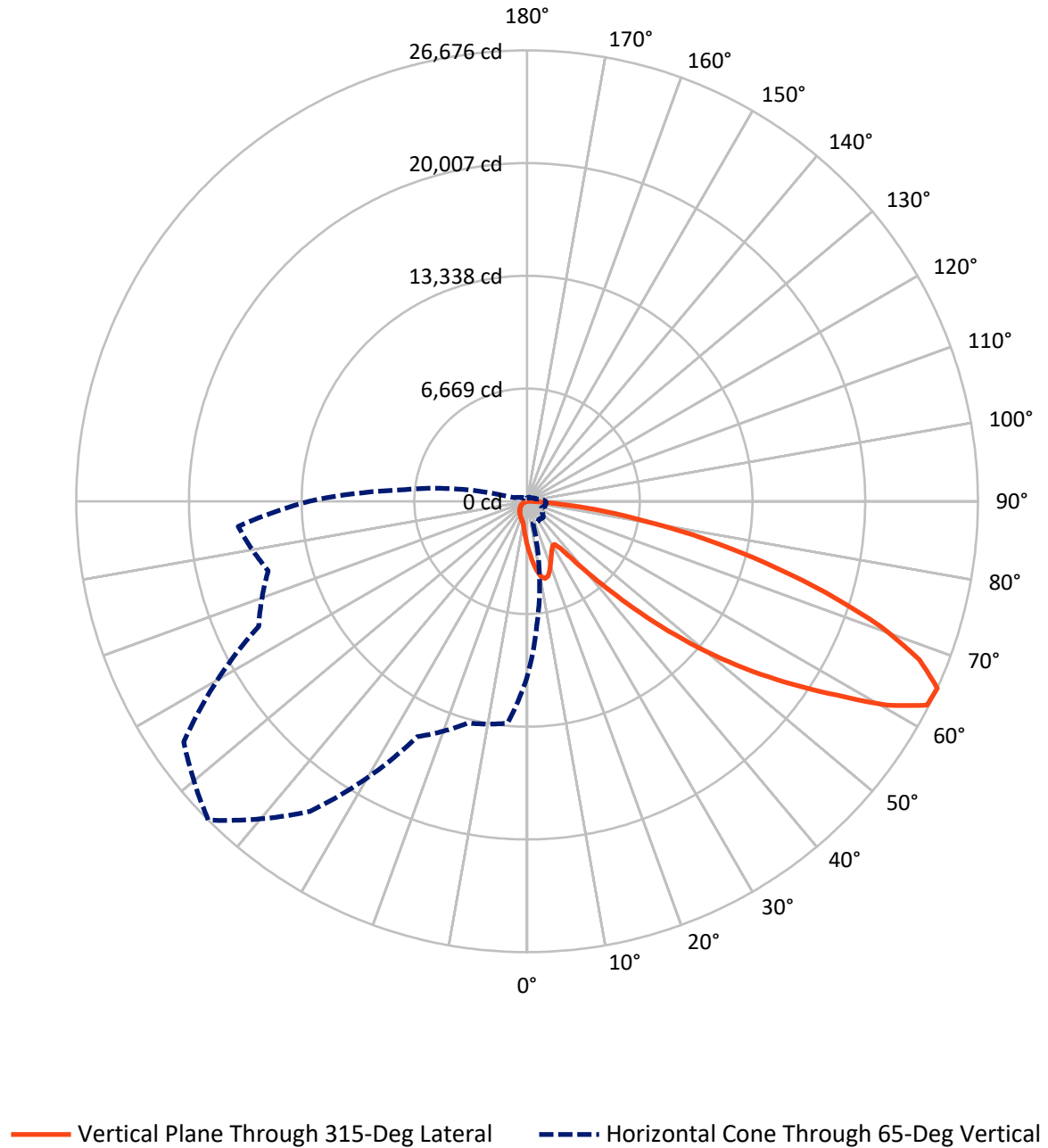
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	2658.1	0.0	2658.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	16322.9	0.0	16322.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	18981.0	0.0	18981.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.8	1.4
10°-20°	775.7	4.1
20°-30°	1142.7	6.0
30°-40°	1468.1	7.7
40°-50°	2374.4	12.5
50°-60°	4163.7	21.9
60°-70°	5209.9	27.4
70°-80°	3044.5	16.0
80°-90°	543.2	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°	18981.0	100.0
0°-180°	18981.0	100.0

Coefficient of Utilization



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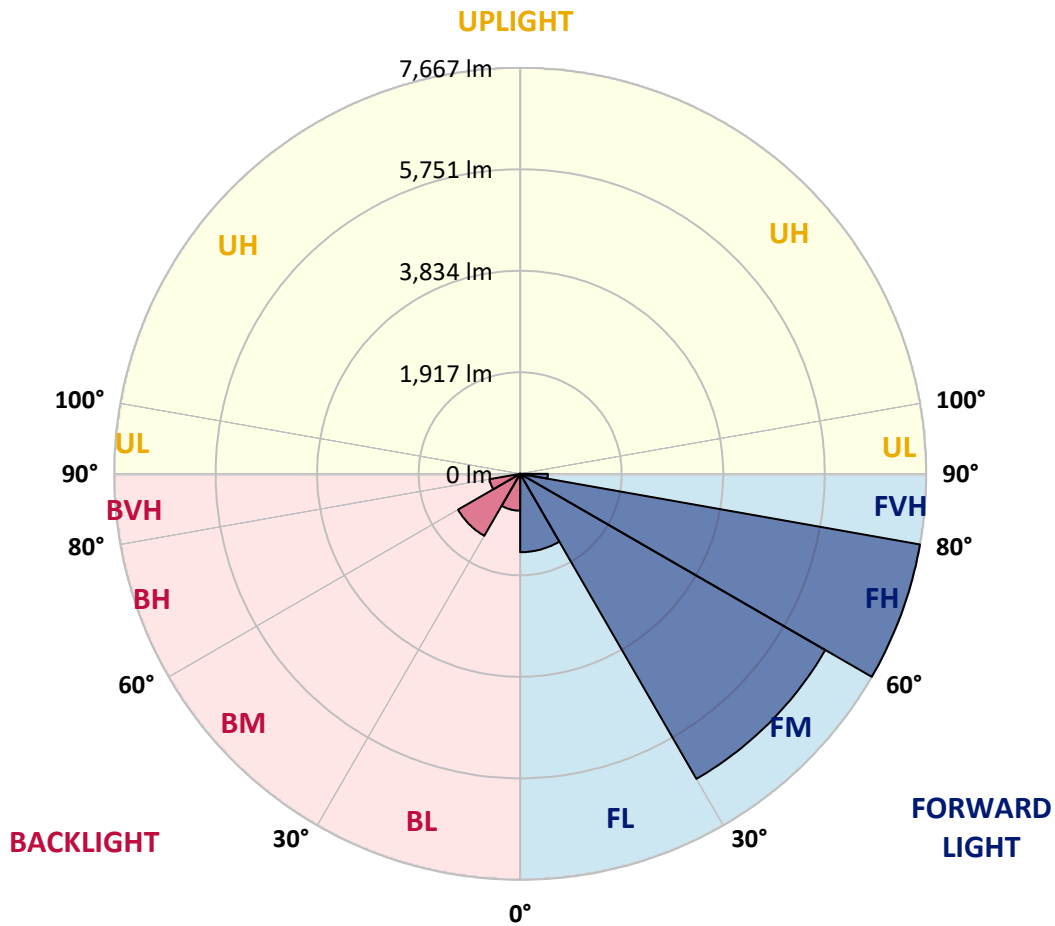
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1480.5	7.8			
FM (30°-60°)	6652.6	35.0			
FH (60°-80°)	7667.5	40.4			G4/12000
FVH (80°-90°)	522.3	2.8			G4/750
BL (0°-30°)	696.7	3.7	B2/1000		
BM (30°-60°)	1353.6	7.1	B2/2500		
BH (60°-80°)	586.9	3.1	B2/1000		G2/1000
BVH (80°-90°)	20.9	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°	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3
2.5°	2969.5	2918.5	2888.5	2813.9	2739.4	2679.3	2598.2	2544.6	2480.5	2419.0
5°	3309.5	3227.1	3127.8	2991.8	2867.6	2740.7	2617.8	2496.2	2368.1	2250.4
7.5°	3597.2	3478.2	3303.0	3122.5	2964.3	2811.3	2667.5	2506.7	2351.1	2166.7
10°	3816.9	3665.2	3435.0	3198.4	3016.6	2862.3	2722.4	2586.4	2429.5	2207.2
12.5°	3950.2	3788.1	3514.8	3237.6	3029.7	2857.1	2748.6	2688.4	2627.0	2406.0
15°	4048.3	3873.1	3571.0	3265.1	2999.6	2787.8	2708.0	2768.2	2838.8	2697.6
17.5°	4150.3	3965.9	3644.3	3276.8	2918.5	2653.1	2619.1	2774.7	2938.2	2931.6
20°	4247.1	4064.0	3708.3	3269.0	2787.8	2489.7	2519.7	2718.5	2908.1	2987.8
22.5°	4358.2	4164.7	3769.8	3238.9	2617.8	2336.7	2430.8	2629.6	2795.6	2889.8
25°	4494.2	4291.5	3856.1	3194.4	2434.7	2209.8	2340.6	2526.3	2661.0	2726.3
27.5°	4640.6	4443.2	3971.2	3170.9	2287.0	2119.6	2238.6	2403.4	2523.7	2569.4
30°	4822.4	4619.7	4107.1	3144.8	2190.2	2067.3	2132.7	2260.8	2378.5	2424.3
32.5°	5021.2	4815.9	4237.9	3082.0	2131.4	2028.1	2029.4	2110.5	2217.7	2272.6
35°	5269.6	5051.2	4377.8	2944.7	2084.3	1982.3	1928.7	1967.9	2056.8	2122.2
37.5°	5624.0	5359.8	4549.1	2748.6	2015.0	1911.7	1822.8	1831.9	1899.9	1971.8
40°	6113.0	5774.3	4750.5	2544.6	1915.6	1812.3	1706.4	1702.5	1752.2	1822.8
42.5°	6774.6	6322.2	4992.4	2349.7	1820.2	1692.0	1583.5	1577.0	1616.2	1677.6
45°	7648.1	7023.1	5289.2	2182.4	1745.6	1574.3	1467.1	1464.5	1497.2	1550.8
47.5°	8766.1	7997.2	5586.0	2068.6	1706.4	1481.5	1371.7	1376.9	1405.7	1454.0
50°	10213.6	9266.9	5676.3	2011.1	1706.4	1431.8	1286.7	1312.8	1336.4	1373.0
52.5°	11948.8	10485.6	5378.1	1958.8	1716.9	1438.4	1214.8	1271.0	1288.0	1319.4
55°	13557.1	11083.2	4623.6	1886.9	1719.5	1478.9	1153.3	1237.0	1268.4	1280.1
57.5°	14490.7	10877.9	3738.4	1765.3	1709.0	1506.3	1114.1	1195.1	1255.3	1263.1
60°	14312.9	10157.4	2752.5	1672.4	1631.9	1495.9	1102.3	1131.1	1226.5	1238.3
62.5°	12942.6	8949.2	1910.4	1600.5	1461.9	1450.1	1098.4	1030.4	1163.8	1192.5
65°	10403.2	7045.3	1349.4	1378.2	1281.4	1350.7	1077.5	925.8	1087.9	1127.1
67.5°	7547.4	4767.5	974.2	1116.7	1161.1	1189.9	1030.4	849.9	1001.6	1053.9
70°	4843.3	2574.6	683.9	737.5	978.1	1010.8	949.3	781.9	914.0	974.2
72.5°	3442.9	1520.7	491.7	516.5	785.9	842.1	835.6	706.1	812.0	885.2
75°	2375.9	838.2	332.1	368.7	570.1	683.9	644.6	606.7	687.8	762.3
77.5°	1489.3	375.3	198.8	256.3	374.0	537.4	442.0	469.4	536.1	605.4
80°	829.0	145.1	111.1	170.0	204.0	391.0	244.5	302.1	394.9	444.6
82.5°	180.4	18.3	49.7	73.2	79.8	227.5	129.5	175.2	248.4	244.5
85°	0.0	0.0	9.2	10.5	5.2	98.1	47.1	57.5	81.1	75.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
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°
2628.3	0°	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3
2364.1	2.5°	2353.7	2289.6	2242.5	2219.0	2199.4	2217.7	2228.1	2228.1	2272.6	2298.7
2178.4	5°	2132.7	2017.6	1930.0	1871.2	1835.9	1847.6	1860.7	1875.1	1931.3	1969.2
2068.6	7.5°	1979.7	1803.2	1669.8	1587.4	1544.3	1550.8	1560.0	1571.7	1626.6	1664.6
2084.3	10°	1950.9	1697.3	1509.0	1400.4	1348.1	1339.0	1333.7	1329.8	1362.5	1391.3
2262.1	12.5°	2068.6	1702.5	1439.7	1307.6	1243.5	1216.1	1184.7	1159.8	1165.1	1183.4
2531.5	15°	2279.1	1769.2	1417.4	1259.2	1179.4	1133.7	1097.1	1067.0	1060.5	1067.0
2766.9	17.5°	2519.7	1859.4	1414.8	1217.4	1118.0	1070.9	1040.8	1013.4	1004.2	1005.5
2898.9	20°	2679.3	1931.3	1407.0	1170.3	1059.2	1017.3	991.2	963.7	954.5	957.2
2862.3	22.5°	2694.9	1969.2	1395.2	1118.0	1000.3	965.0	938.9	914.0	912.7	912.7
2725.0	25°	2610.0	1969.2	1370.4	1070.9	944.1	912.7	889.2	859.1	864.3	866.9
2569.4	27.5°	2477.9	1922.2	1323.3	1033.0	895.7	863.0	839.5	812.0	818.6	822.5
2424.3	30°	2347.1	1862.0	1267.1	989.8	849.9	812.0	795.0	771.5	774.1	779.3
2280.4	32.5°	2225.5	1797.9	1200.4	954.5	804.2	766.2	753.2	727.0	730.9	736.2
2139.2	35°	2105.2	1727.3	1121.9	912.7	762.3	724.4	713.9	683.9	686.5	694.3
1998.0	37.5°	1975.8	1652.8	1057.8	870.9	721.8	682.6	672.1	640.7	643.3	652.5
1851.6	40°	1839.8	1579.6	995.1	826.4	678.6	639.4	630.3	596.3	598.9	609.3
1707.7	42.5°	1702.5	1499.8	946.7	768.9	634.2	592.3	583.2	551.8	555.7	567.5
1582.2	45°	1575.6	1404.4	915.3	704.8	592.3	545.3	536.1	507.3	515.2	528.3
1476.3	47.5°	1467.1	1306.3	902.2	651.2	547.9	496.9	489.0	465.5	478.6	493.0
1386.0	50°	1374.3	1212.1	885.2	596.3	506.0	455.0	447.2	431.5	448.5	462.9
1324.6	52.5°	1307.6	1104.9	848.6	546.6	469.4	419.7	417.1	409.3	425.0	438.0
1278.8	55°	1250.1	993.8	789.8	503.4	436.7	389.7	392.3	388.4	401.4	411.9
1251.4	57.5°	1197.8	897.0	715.3	469.4	401.4	363.5	371.4	366.1	372.7	379.2
1222.6	60°	1135.0	798.9	626.3	431.5	359.6	337.4	346.5	332.1	330.8	333.4
1170.3	62.5°	1042.2	666.9	533.5	384.4	323.0	308.6	312.5	285.1	264.1	264.1
1093.1	65°	912.7	536.1	447.2	332.1	281.1	269.4	266.7	227.5	198.8	196.1
1009.5	67.5°	762.3	440.7	371.4	279.8	234.1	226.2	228.8	200.1	171.3	168.7
925.8	70°	621.1	364.8	299.4	223.6	180.4	188.3	200.1	171.3	143.8	139.9
827.7	72.5°	504.7	290.3	234.1	171.3	133.4	155.6	170.0	139.9	113.8	111.1
706.1	75°	389.7	213.1	167.4	116.4	96.8	120.3	133.4	102.0	81.1	77.1
546.6	77.5°	260.2	132.1	94.1	73.2	57.5	82.4	88.9	53.6	47.1	45.8
397.5	80°	158.2	61.5	40.5	35.3	19.6	30.1	35.3	22.2	24.8	26.2
211.8	82.5°	79.8	17.0	6.5	1.3	0.0	0.0	10.5	5.2	10.5	13.1
57.5	85°	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	6.5
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°
2628.3	0°	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3
2309.2	2.5°	2382.4	2437.4	2489.7	2573.3	2659.6	2744.6	2830.9	2914.6	2944.7	2966.9
1994.1	5°	2107.8	2211.1	2331.4	2497.5	2675.3	2858.4	3044.1	3214.1	3291.2	3343.5
1697.3	7.5°	1824.1	1958.8	2131.4	2381.1	2659.6	2951.2	3242.8	3510.9	3635.1	3735.8
1417.4	10°	1543.0	1689.4	1907.8	2192.8	2569.4	2987.8	3390.6	3759.3	3920.2	4047.0
1216.1	12.5°	1295.8	1433.1	1662.0	1977.1	2428.2	2959.1	3475.6	3918.9	4108.5	4251.0
1072.2	15°	1121.9	1218.7	1421.4	1761.3	2260.8	2866.2	3480.8	3994.7	4202.6	4351.7
1012.1	17.5°	1025.2	1057.8	1189.9	1541.7	2075.1	2744.6	3432.4	4020.8	4243.1	4381.7
958.5	20°	972.8	978.1	1014.7	1256.6	1837.2	2630.9	3386.7	4047.0	4281.1	4397.4
920.5	22.5°	931.0	931.0	940.2	1027.8	1529.9	2494.9	3372.3	4092.8	4333.4	4405.3
877.4	25°	893.1	893.1	895.7	919.2	1212.1	2287.0	3363.1	4163.4	4405.3	4424.9
834.2	27.5°	853.9	855.2	855.2	868.2	976.8	2004.5	3323.9	4254.9	4491.6	4451.0
792.4	30°	814.6	817.2	817.2	826.4	864.3	1673.7	3246.8	4364.7	4604.0	4485.0
750.6	32.5°	775.4	778.0	778.0	785.9	813.3	1336.4	3150.0	4465.4	4717.8	4499.4
710.0	35°	734.9	738.8	736.2	746.6	775.4	1063.1	3027.1	4566.1	4840.7	4545.2
670.8	37.5°	694.3	696.9	695.6	706.1	738.8	917.9	2884.5	4642.0	5008.1	4647.2
629.0	40°	653.8	652.5	652.5	664.3	699.6	876.1	2705.4	4762.3	5248.7	4826.3
587.1	42.5°	612.0	612.0	609.3	622.4	665.6	844.7	2534.1	4978.0	5599.1	5111.4
547.9	45°	574.0	572.7	567.5	579.3	632.9	789.8	2474.0	5380.7	6116.9	5573.0
508.7	47.5°	537.4	536.1	523.0	533.5	593.6	740.1	2698.9	6039.8	6834.8	6251.6
477.3	50°	504.7	506.0	481.2	490.3	554.4	702.2	3186.6	6894.9	7788.0	7165.6
451.1	52.5°	474.7	474.7	442.0	447.2	506.0	668.2	3650.8	7822.0	9045.9	8440.5
423.7	55°	444.6	442.0	405.4	408.0	457.7	619.8	3720.1	8726.9	10761.5	10358.7
393.6	57.5°	410.6	405.4	371.4	371.4	413.2	584.5	3224.5	9422.5	12890.2	13177.9
337.4	60°	368.7	364.8	342.6	336.1	377.9	615.9	2275.2	9503.6	14263.2	16926.8
268.1	62.5°	315.1	320.4	308.6	299.4	343.9	639.4	1348.1	8851.1	13931.1	18119.3
207.9	65°	248.4	269.4	266.7	260.2	377.9	538.7	796.3	7598.4	12912.5	17156.9
181.8	67.5°	211.8	226.2	222.3	222.3	396.2	409.3	500.8	5936.5	11510.7	16015.4
151.7	70°	180.4	194.8	180.4	180.4	299.4	248.4	346.5	4145.1	9997.9	14752.3
121.6	72.5°	149.1	163.4	147.8	137.3	239.3	185.7	253.7	2590.3	8562.1	13436.8
86.3	75°	113.8	130.8	119.0	105.9	158.2	138.6	192.2	1505.0	7093.7	11496.4
52.3	77.5°	71.9	94.1	88.9	74.5	116.4	100.7	138.6	895.7	5473.6	8983.2
31.4	80°	44.5	48.4	49.7	47.1	66.7	68.0	94.1	510.0	3746.3	6260.8
19.6	82.5°	28.8	28.8	22.2	24.8	32.7	39.2	53.6	192.2	2202.0	3811.6
11.8	85°	20.9	18.3	11.8	11.8	15.7	19.6	20.9	58.8	893.1	1505.0
5.2	87.5°	10.5	9.2	3.9	5.2	7.8	6.5	5.2	2.6	224.9	481.2
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°
2628.3	0°	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3	2628.3
3016.6	2.5°	3042.8	3083.3	3085.9	3085.9	3050.6	3049.3	2977.4	2969.5
3461.2	5°	3582.8	3609.0	3615.5	3602.4	3531.8	3479.5	3339.6	3309.5
3914.9	7.5°	4077.1	4129.4	4129.4	4098.0	3982.9	3875.7	3673.0	3597.2
4290.2	10°	4472.0	4532.1	4519.0	4455.0	4309.8	4162.1	3916.2	3816.9
4517.7	12.5°	4664.2	4725.6	4691.6	4618.4	4477.2	4321.6	4062.7	3950.2
4583.1	15°	4660.3	4643.3	4608.0	4598.8	4530.8	4413.1	4171.2	4048.3
4542.6	17.5°	4494.2	4350.4	4322.9	4414.4	4500.7	4472.0	4265.4	4150.3
4445.8	20°	4231.4	3980.3	3955.5	4130.7	4376.5	4502.0	4353.0	4247.1
4305.9	22.5°	3954.2	3683.5	3626.0	3819.5	4189.5	4511.2	4464.1	4358.2
4151.6	25°	3691.3	3419.4	3361.8	3542.3	3981.6	4495.5	4584.4	4494.2
4003.8	27.5°	3471.7	3208.8	3155.2	3335.7	3781.6	4451.0	4704.7	4640.6
3857.4	30°	3301.7	3058.5	3019.2	3193.1	3609.0	4396.1	4857.7	4822.4
3721.4	32.5°	3202.3	3024.5	3038.8	3181.4	3516.1	4336.0	5004.2	5021.2
3654.7	35°	3300.4	3308.2	3433.7	3492.6	3602.4	4326.8	5202.9	5269.6
3734.5	37.5°	3788.1	4060.1	4320.3	4271.9	4024.8	4432.7	5499.7	5624.0
4082.3	40°	4618.4	5176.8	5599.1	5414.7	4792.3	4757.0	5927.3	6113.0
4699.5	42.5°	5633.1	6579.8	7275.4	6781.2	5782.2	5324.5	6538.0	6774.6
5446.1	45°	6704.0	8309.8	9405.5	8377.7	6837.4	6119.5	7462.4	7648.1
6145.7	47.5°	7832.5	10412.4	11829.8	10148.2	7815.5	7024.4	8723.0	8766.1
6808.6	50°	9066.8	12717.6	14301.1	11917.4	8759.6	8061.3	10263.3	10213.6
7581.4	52.5°	10242.4	15088.3	16720.2	13694.4	9588.6	9348.0	12050.8	11948.8
8638.0	55°	11364.3	17457.7	19153.6	15402.1	10370.5	11047.8	14174.3	13557.1
10161.3	57.5°	12665.3	19587.7	21661.6	17117.7	11463.7	13255.1	16548.9	14490.7
13078.5	60°	14588.8	22008.1	24497.7	19468.7	13542.7	15574.7	17400.1	14312.9
16572.4	62.5°	17044.5	24233.6	26559.8	21772.7	15631.0	16011.5	16146.2	12942.6
15859.8	65°	17521.7	24797.2	26676.2	22388.6	15361.6	13582.0	13181.8	10403.2
14166.5	67.5°	16256.0	23778.6	25049.6	21241.8	13588.5	10496.0	9891.9	7547.4
13055.0	70°	14835.9	21836.8	22214.7	19292.2	11951.4	7720.0	6680.5	4843.3
12294.0	72.5°	13380.6	19246.5	18464.5	16754.2	10503.9	5621.3	4818.5	3442.9
11210.0	75°	11652.0	15840.2	14544.4	13920.6	8696.8	4411.8	3486.0	2375.9
9642.2	77.5°	9331.0	11149.8	10803.3	10790.3	6535.3	3223.2	2326.2	1489.3
7533.0	80°	6582.4	7236.2	7059.7	8126.7	4384.4	2338.0	1400.4	829.0
5243.4	82.5°	3186.6	4001.2	4107.1	4839.4	2132.7	1375.6	323.0	180.4
2050.3	85°	1247.4	1930.0	1628.0	1837.2	598.9	383.1	7.8	0.0
337.4	87.5°	139.9	223.6	205.3	162.1	73.2	15.7	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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