

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: P954921

Luminaire Tested: **GALN-SB8A-740-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954921
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-SB8A-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 29288 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

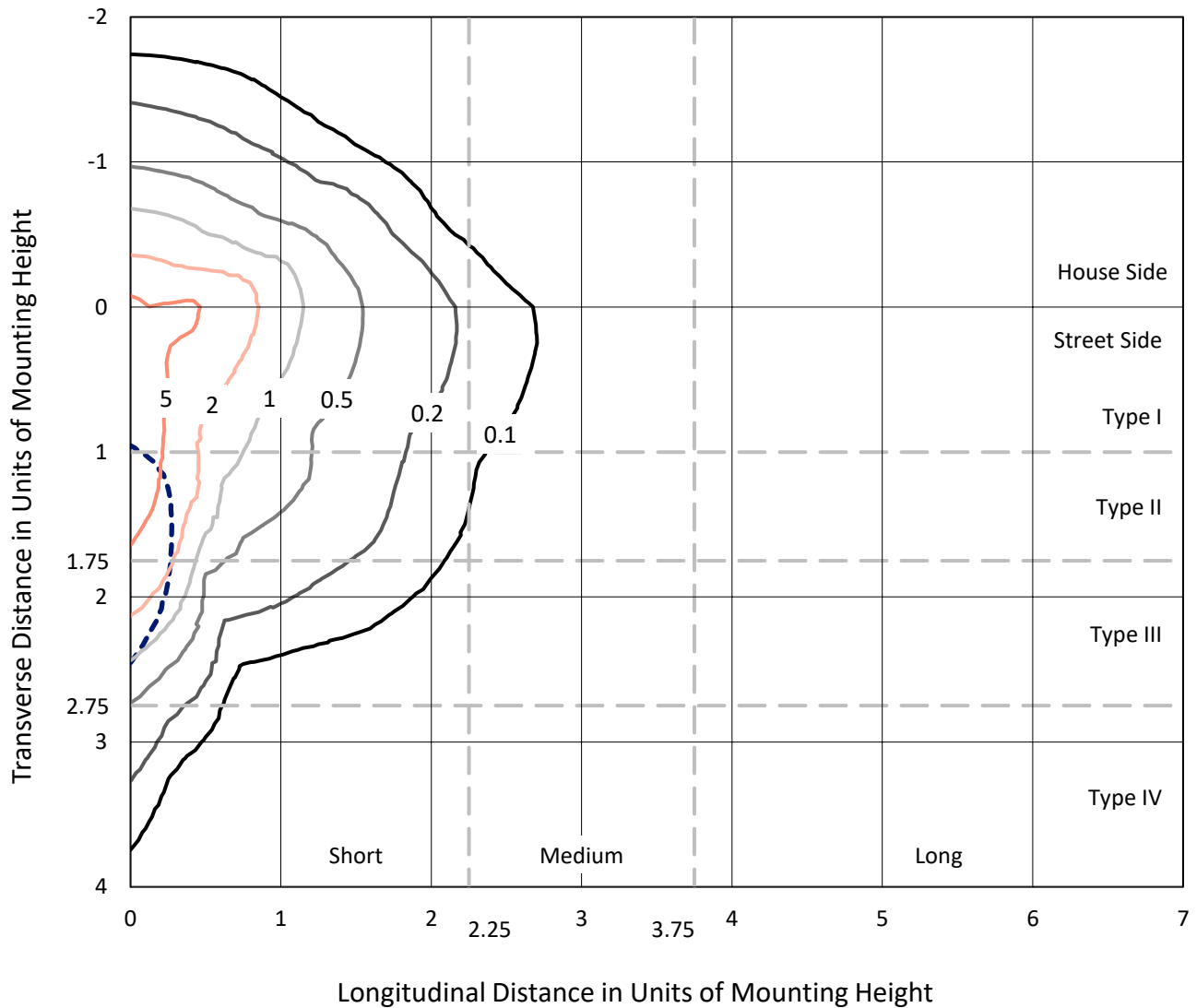
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

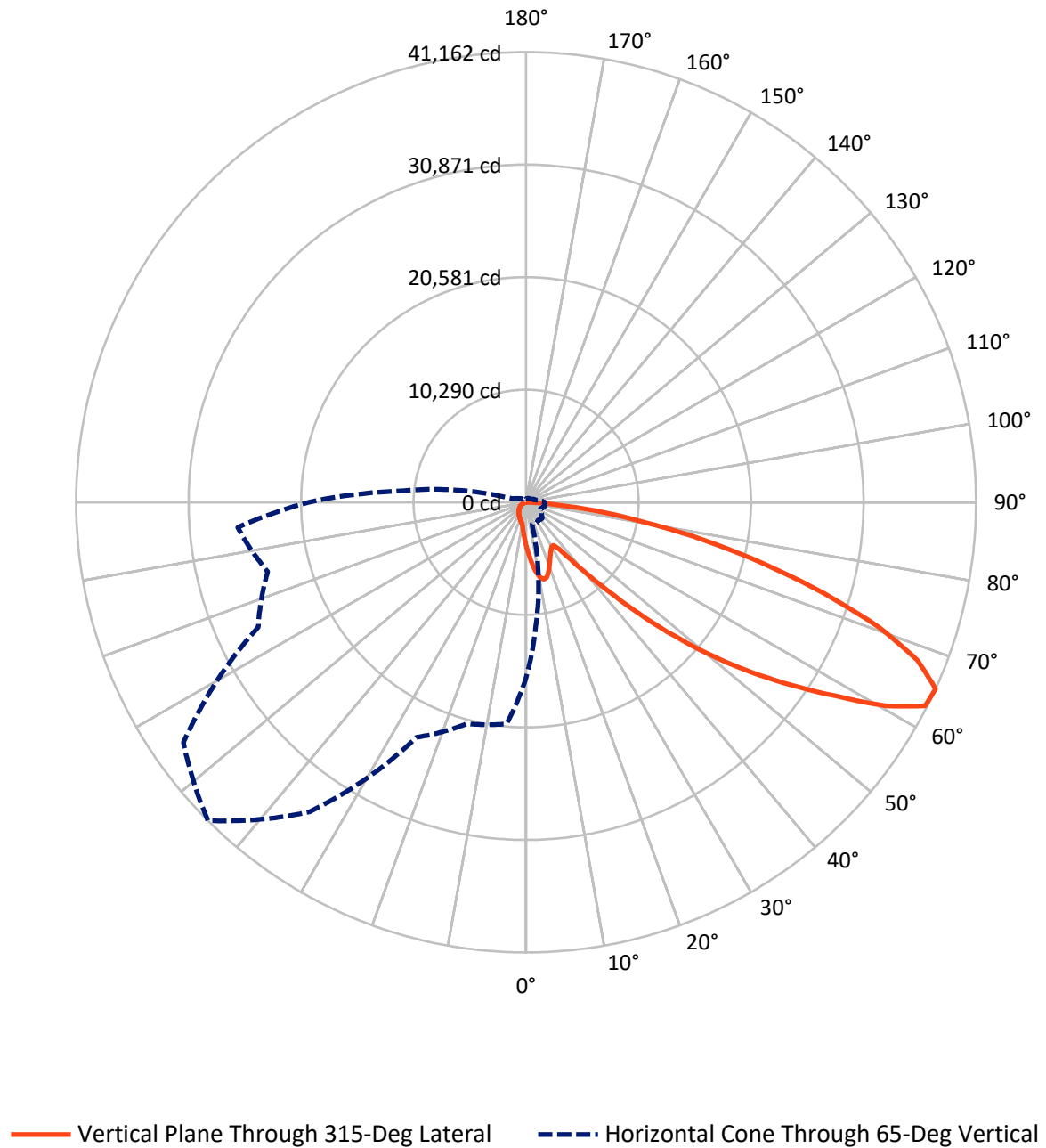
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	4101.6	0.0	4101.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	25186.4	0.0	25186.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	29288.0	0.0	29288.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.3	1.4
10°-20°	1196.9	4.1
20°-30°	1763.3	6.0
30°-40°	2265.3	7.7
40°-50°	3663.7	12.5
50°-60°	6424.7	21.9
60°-70°	8039.0	27.4
70°-80°	4697.6	16.0
80°-90°	838.1	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°	29288.0	100.0
0°-180°	29288.0	100.0

Coefficient of Utilization



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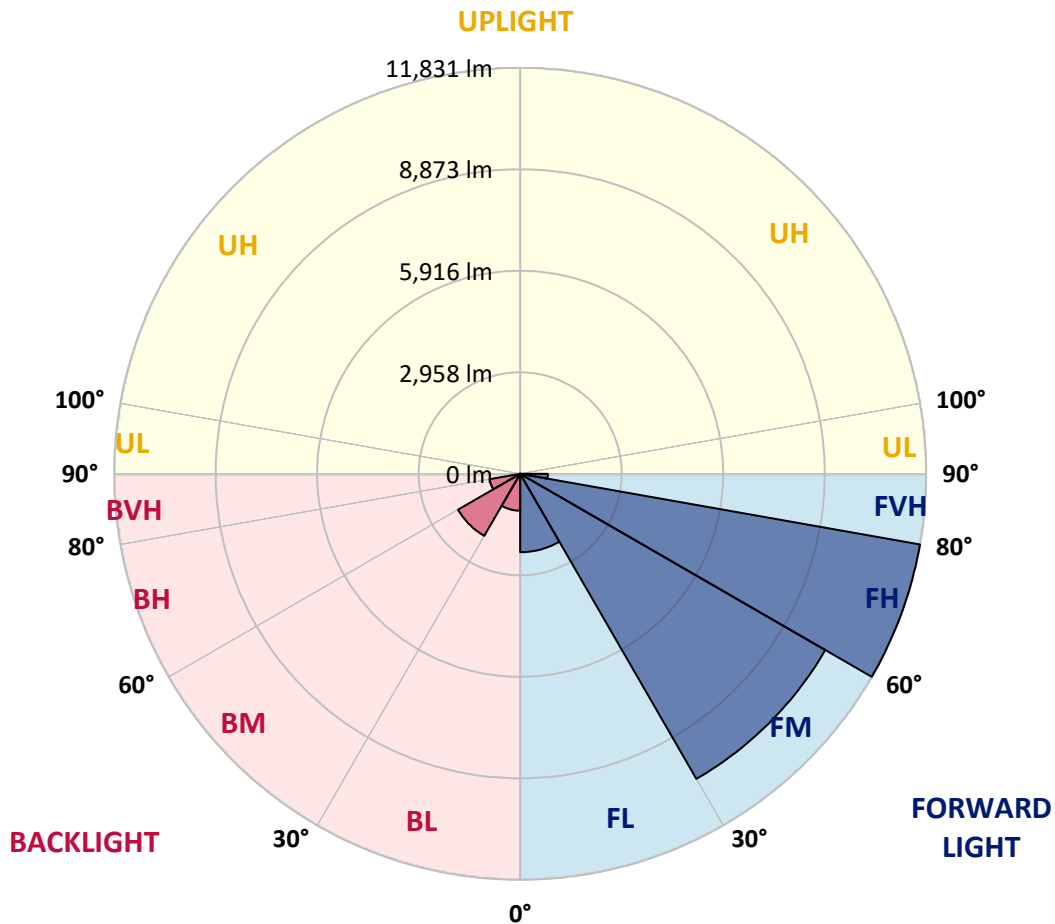
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2284.4	7.8			
FM (30°-60°)	10265.1	35.0			
FH (60°-80°)	11831.0	40.4			G4/12000
FVH (80°-90°)	805.9	2.8			G5
BL (0°-30°)	1075.1	3.7	B3/2500		
BM (30°-60°)	2088.6	7.1	B2/2500		
BH (60°-80°)	905.7	3.1	B2/1000		G2/1000
BVH (80°-90°)	32.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5
2.5°	4582.1	4503.4	4457.0	4342.0	4227.0	4134.1	4009.0	3926.3	3827.5	3732.6
5°	5106.6	4979.5	4826.2	4616.4	4424.7	4229.0	4039.3	3851.7	3653.9	3472.4
7.5°	5550.5	5366.9	5096.6	4818.1	4574.0	4337.9	4116.0	3867.8	3627.7	3343.2
10°	5889.5	5655.4	5300.3	4935.1	4654.7	4416.6	4200.7	3990.9	3748.8	3405.8
12.5°	6095.3	5845.1	5423.4	4995.7	4674.9	4408.5	4241.1	4148.3	4053.4	3712.5
15°	6246.6	5976.2	5510.2	5038.0	4628.5	4301.6	4178.5	4271.3	4380.3	4162.4
17.5°	6404.0	6119.5	5623.2	5056.2	4503.4	4093.8	4041.3	4281.4	4533.6	4523.5
20°	6553.3	6270.8	5722.0	5044.1	4301.6	3841.6	3888.0	4194.7	4487.2	4610.3
22.5°	6724.8	6426.2	5816.8	4997.7	4039.3	3605.5	3750.8	4057.5	4313.7	4459.0
25°	6934.6	6621.9	5950.0	4929.1	3756.8	3409.8	3611.6	3898.1	4105.9	4206.8
27.5°	7160.6	6855.9	6127.6	4892.8	3528.8	3270.6	3454.2	3708.4	3894.0	3964.7
30°	7441.0	7128.3	6337.4	4852.4	3379.5	3189.9	3290.8	3488.5	3670.1	3740.7
32.5°	7747.7	7431.0	6539.2	4755.6	3288.7	3129.4	3131.4	3256.5	3421.9	3506.7
35°	8131.1	7794.1	6755.0	4543.7	3216.1	3058.7	2976.0	3036.5	3173.7	3274.6
37.5°	8677.9	8270.3	7019.4	4241.1	3109.2	2949.8	2812.6	2826.7	2931.6	3042.6
40°	9432.5	8909.9	7330.1	3926.3	2955.8	2796.4	2633.0	2627.0	2703.6	2812.6
42.5°	10453.4	9755.3	7703.3	3625.7	2808.6	2610.8	2443.4	2433.3	2493.8	2588.6
45°	11801.2	10836.7	8161.3	3367.4	2693.5	2429.2	2263.8	2259.8	2310.2	2392.9
47.5°	13526.2	12339.9	8619.3	3191.9	2633.0	2286.0	2116.5	2124.6	2169.0	2243.6
50°	15759.8	14299.0	8758.6	3103.1	2633.0	2209.3	1985.4	2025.7	2062.0	2118.5
52.5°	18437.2	16179.4	8298.5	3022.4	2649.2	2219.4	1874.4	1961.1	1987.4	2035.8
55°	20918.9	17101.5	7134.4	2911.5	2653.2	2281.9	1779.6	1908.7	1957.1	1975.3
57.5°	22359.5	16784.7	5768.4	2723.8	2637.1	2324.3	1719.0	1844.1	1936.9	1949.0
60°	22085.1	15673.0	4247.1	2580.6	2518.0	2308.2	1700.9	1745.3	1892.5	1910.7
62.5°	19970.6	13808.7	2947.8	2469.6	2255.7	2237.6	1694.8	1589.9	1795.7	1840.1
65°	16052.3	10871.0	2082.2	2126.6	1977.3	2084.2	1662.5	1428.5	1678.7	1739.2
67.5°	11645.8	7356.3	1503.1	1723.1	1791.7	1836.0	1589.9	1311.5	1545.5	1626.2
70°	7473.3	3972.7	1055.2	1137.9	1509.2	1559.6	1464.8	1206.5	1410.3	1503.1
72.5°	5312.4	2346.5	758.6	797.0	1212.6	1299.4	1289.3	1089.5	1253.0	1365.9
75°	3666.0	1293.3	512.5	569.0	879.7	1055.2	994.7	936.2	1061.3	1176.3
77.5°	2298.1	579.1	306.7	395.5	577.0	829.2	682.0	724.3	827.2	934.2
80°	1279.2	224.0	171.5	262.3	314.8	603.3	377.3	466.1	609.3	686.0
82.5°	278.4	28.2	76.7	113.0	123.1	351.1	199.7	270.4	383.4	377.3
85°	0.0	0.0	14.1	16.1	8.1	151.3	72.6	88.8	125.1	117.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
4055.5	0°	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5
3647.9	2.5°	3631.7	3532.9	3460.2	3423.9	3393.7	3421.9	3438.1	3438.1	3506.7	3547.0
3361.4	5°	3290.8	3113.2	2978.0	2887.2	2832.8	2850.9	2871.1	2893.3	2980.1	3038.6
3191.9	7.5°	3054.7	2782.3	2576.5	2449.4	2382.8	2392.9	2407.0	2425.2	2509.9	2568.5
3216.1	10°	3010.3	2618.9	2328.4	2160.9	2080.2	2066.1	2058.0	2051.9	2102.4	2146.8
3490.5	12.5°	3191.9	2627.0	2221.4	2017.6	1918.8	1876.4	1828.0	1789.6	1797.7	1826.0
3906.1	15°	3516.7	2729.9	2187.1	1943.0	1819.9	1749.3	1692.8	1646.4	1636.3	1646.4
4269.3	17.5°	3888.0	2869.1	2183.1	1878.4	1725.1	1652.4	1606.0	1563.7	1549.5	1551.6
4473.1	20°	4134.1	2980.1	2171.0	1805.8	1634.3	1569.7	1529.4	1487.0	1472.9	1476.9
4416.6	22.5°	4158.4	3038.6	2152.8	1725.1	1543.5	1489.0	1448.7	1410.3	1408.3	1408.3
4204.8	25°	4027.2	3038.6	2114.5	1652.4	1456.7	1408.3	1372.0	1325.6	1333.7	1337.7
3964.7	27.5°	3823.4	2965.9	2041.8	1593.9	1382.1	1331.6	1295.3	1253.0	1263.0	1269.1
3740.7	30°	3621.7	2873.1	1955.1	1527.4	1311.5	1253.0	1226.7	1190.4	1194.4	1202.5
3518.8	32.5°	3434.0	2774.3	1852.2	1472.9	1240.8	1182.3	1162.2	1121.8	1127.9	1135.9
3300.9	35°	3248.4	2665.3	1731.1	1408.3	1176.3	1117.8	1101.6	1055.2	1059.3	1071.4
3082.9	37.5°	3048.6	2550.3	1632.3	1343.7	1113.7	1053.2	1037.1	988.6	992.7	1006.8
2857.0	40°	2838.8	2437.3	1535.4	1275.1	1047.2	986.6	972.5	920.0	924.1	940.2
2635.0	42.5°	2627.0	2314.2	1460.8	1186.4	978.6	914.0	899.9	851.4	857.5	875.7
2441.3	45°	2431.3	2166.9	1412.3	1087.5	914.0	841.4	827.2	782.8	794.9	815.1
2277.9	47.5°	2263.8	2015.6	1392.2	1004.8	845.4	766.7	754.6	718.3	738.5	760.6
2138.7	50°	2120.5	1870.3	1365.9	920.0	780.8	702.1	690.0	665.8	692.0	714.2
2043.9	52.5°	2017.6	1704.9	1309.4	843.4	724.3	647.7	643.6	631.5	655.7	675.9
1973.2	55°	1928.9	1533.4	1218.7	776.8	673.9	601.3	605.3	599.2	619.4	635.6
1930.9	57.5°	1848.2	1384.1	1103.6	724.3	619.4	560.9	573.0	564.9	575.0	585.1
1886.5	60°	1751.3	1232.8	966.4	665.8	554.9	520.6	534.7	512.5	510.5	514.5
1805.8	62.5°	1608.1	1029.0	823.2	593.2	498.4	476.2	482.2	439.8	407.6	407.6
1686.7	65°	1408.3	827.2	690.0	512.5	433.8	415.6	411.6	351.1	306.7	302.6
1557.6	67.5°	1176.3	679.9	573.0	431.8	361.2	349.1	353.1	308.7	264.3	260.3
1428.5	70°	958.4	562.9	462.0	345.0	278.4	290.5	308.7	264.3	221.9	215.9
1277.2	72.5°	778.8	447.9	361.2	264.3	205.8	240.1	262.3	215.9	175.5	171.5
1089.5	75°	601.3	328.9	258.3	179.6	149.3	185.6	205.8	157.4	125.1	119.0
843.4	77.5°	401.5	203.8	145.3	113.0	88.8	127.1	137.2	82.7	72.6	70.6
613.4	80°	244.1	94.8	62.5	54.5	30.3	46.4	54.5	34.3	38.3	40.4
326.9	82.5°	123.1	26.2	10.1	2.0	0.0	0.0	16.1	8.1	16.1	20.2
88.8	85°	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	10.1
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°
4055.5	0°	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5
3563.1	2.5°	3676.1	3760.9	3841.6	3970.7	4103.9	4235.0	4368.2	4497.3	4543.7	4578.0
3076.9	5°	3252.4	3411.8	3597.4	3853.7	4128.1	4410.6	4697.1	4959.4	5078.4	5159.1
2618.9	7.5°	2814.6	3022.4	3288.7	3674.1	4103.9	4553.8	5003.7	5417.4	5609.0	5764.4
2187.1	10°	2380.8	2606.8	2943.7	3383.6	3964.7	4610.3	5231.7	5800.7	6048.9	6244.6
1876.4	12.5°	1999.5	2211.3	2564.4	3050.7	3746.8	4565.9	5362.9	6046.9	6339.4	6559.3
1654.5	15°	1731.1	1880.4	2193.2	2717.8	3488.5	4422.7	5371.0	6163.9	6484.7	6714.7
1561.7	17.5°	1581.8	1632.3	1836.0	2378.8	3202.0	4235.0	5296.3	6204.2	6547.2	6761.1
1478.9	20°	1501.1	1509.2	1565.7	1938.9	2834.8	4059.5	5225.7	6244.6	6605.7	6785.3
1420.4	22.5°	1436.6	1436.6	1450.7	1585.9	2360.6	3849.7	5203.5	6315.2	6686.4	6797.4
1353.8	25°	1378.0	1378.0	1382.1	1418.4	1870.3	3528.8	5189.4	6424.2	6797.4	6827.7
1287.3	27.5°	1317.5	1319.5	1319.5	1339.7	1507.2	3093.0	5128.8	6565.4	6930.6	6868.0
1222.7	30°	1257.0	1261.0	1261.0	1275.1	1333.7	2582.6	5009.8	6734.9	7104.1	6920.5
1158.1	32.5°	1196.5	1200.5	1200.5	1212.6	1255.0	2062.0	4860.5	6890.2	7279.6	6942.7
1095.6	35°	1133.9	1140.0	1135.9	1152.1	1196.5	1640.3	4670.8	7045.6	7469.3	7013.3
1035.0	37.5°	1071.4	1075.4	1073.4	1089.5	1140.0	1416.4	4450.9	7162.6	7727.6	7170.7
970.5	40°	1008.8	1006.8	1006.8	1025.0	1079.4	1351.8	4174.5	7348.2	8098.8	7447.1
905.9	42.5°	944.3	944.3	940.2	960.4	1027.0	1303.4	3910.2	7681.1	8639.5	7886.9
845.4	45°	885.7	883.7	875.7	893.8	976.5	1218.7	3817.4	8302.6	9438.5	8599.2
784.9	47.5°	829.2	827.2	807.1	823.2	916.0	1142.0	4164.4	9319.5	10546.2	9646.3
736.4	50°	778.8	780.8	742.5	756.6	855.5	1083.5	4917.0	10639.0	12017.0	11056.7
696.1	52.5°	732.4	732.4	682.0	690.0	780.8	1031.0	5633.2	12069.5	13958.0	13023.8
653.7	55°	686.0	682.0	625.5	629.5	706.2	956.4	5740.2	13465.7	16605.2	15983.7
607.3	57.5°	633.5	625.5	573.0	573.0	637.6	901.9	4975.5	14539.1	19889.9	20333.7
520.6	60°	569.0	562.9	528.6	518.5	583.1	950.3	3510.7	14664.2	22008.4	26118.3
413.6	62.5°	486.3	494.3	476.2	462.0	530.6	986.6	2080.2	13657.4	21495.9	27958.4
320.8	65°	383.4	415.6	411.6	401.5	583.1	831.3	1228.7	11724.5	19924.2	26473.4
280.5	67.5°	326.9	349.1	343.0	343.0	611.3	631.5	772.8	9160.1	17761.3	24712.0
234.0	70°	278.4	300.6	278.4	278.4	462.0	383.4	534.7	6395.9	15426.9	22763.0
187.6	72.5°	230.0	252.2	228.0	211.9	369.2	286.5	391.4	3996.9	13211.5	20733.2
133.2	75°	175.5	201.8	183.6	163.4	244.1	213.9	296.6	2322.3	10945.7	17739.1
80.7	77.5°	111.0	145.3	137.2	115.0	179.6	155.4	213.9	1382.1	8445.8	13861.2
48.4	80°	68.6	74.7	76.7	72.6	102.9	104.9	145.3	786.9	5780.5	9660.4
30.3	82.5°	44.4	44.4	34.3	38.3	50.4	60.5	82.7	296.6	3397.7	5881.4
18.2	85°	32.3	28.2	18.2	18.2	24.2	30.3	32.3	90.8	1378.0	2322.3
8.1	87.5°	16.1	14.1	6.1	8.1	12.1	10.1	8.1	4.0	347.0	742.5
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°
4055.5	0°	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5
4654.7	2.5°	4695.0	4757.6	4761.6	4761.6	4707.1	4705.1	4594.2	4582.1
5340.7	5°	5528.3	5568.7	5578.8	5558.6	5449.6	5368.9	5153.0	5106.6
6040.8	7.5°	6291.0	6371.7	6371.7	6323.3	6145.7	5980.3	5667.5	5550.5
6619.9	10°	6900.3	6993.1	6973.0	6874.1	6650.1	6422.1	6042.8	5889.5
6970.9	12.5°	7196.9	7291.7	7239.3	7126.3	6908.4	6668.3	6268.8	6095.3
7071.8	15°	7190.9	7164.6	7110.2	7096.0	6991.1	6809.5	6436.3	6246.6
7009.3	17.5°	6934.6	6712.7	6670.3	6811.5	6944.7	6900.3	6581.5	6404.0
6860.0	20°	6529.1	6141.7	6103.4	6373.7	6753.0	6946.7	6716.7	6553.3
6644.1	22.5°	6101.3	5683.7	5594.9	5893.5	6464.5	6960.8	6888.2	6724.8
6406.0	25°	5695.8	5276.1	5187.3	5465.8	6143.7	6936.6	7073.8	6934.6
6178.0	27.5°	5356.8	4951.3	4868.6	5147.0	5835.0	6868.0	7259.5	7160.6
5952.0	30°	5094.5	4719.3	4658.7	4927.1	5568.7	6783.3	7495.5	7441.0
5742.2	32.5°	4941.2	4666.8	4689.0	4908.9	5425.4	6690.5	7721.5	7747.7
5639.3	35°	5092.5	5104.6	5298.3	5389.1	5558.6	6676.4	8028.2	8131.1
5762.4	37.5°	5845.1	6264.8	6666.3	6591.6	6210.3	6839.8	8486.2	8677.9
6299.1	40°	7126.3	7987.8	8639.5	8355.0	7394.6	7340.2	9145.9	9432.5
7251.4	42.5°	8692.0	10152.8	11226.1	10463.5	8922.0	8215.8	10088.2	10453.4
8403.5	45°	10344.4	12822.1	14512.9	12927.0	10550.2	9442.5	11514.7	11801.2
9482.9	47.5°	12085.6	16066.4	18253.6	15658.9	12059.4	10838.7	13459.7	13526.2
10505.8	50°	13990.3	19623.5	22066.9	18388.7	13516.2	12438.7	15836.4	15759.8
11698.3	52.5°	15804.2	23281.5	25799.5	21130.7	14795.3	14424.1	18594.5	18437.2
13328.5	55°	17535.3	26937.5	29554.4	23765.7	16001.9	17047.0	21871.2	20918.9
15679.1	57.5°	19542.8	30224.2	33424.2	26412.9	17688.6	20452.8	25535.2	22359.5
20180.4	60°	22510.8	33958.9	37800.4	30040.6	20896.7	24032.1	26848.7	22085.1
25571.5	62.5°	26299.9	37392.9	40982.2	33595.7	24118.8	24706.0	24913.8	19970.6
24471.9	65°	27036.3	38262.5	41161.8	34546.0	23703.2	20957.2	20339.8	16052.3
21859.1	67.5°	25083.3	36690.7	38651.9	32776.5	20967.3	16195.6	15263.4	11645.8
20144.1	70°	22892.1	33694.5	34277.6	29768.2	18441.2	11912.1	10308.1	7473.3
18969.8	72.5°	20646.5	29697.6	28491.1	25852.0	16207.7	8673.8	7435.0	5312.4
17297.2	75°	17979.2	24441.7	22442.2	21479.8	13419.3	6807.5	5379.0	3666.0
14878.1	77.5°	14397.9	17204.4	16669.7	16649.5	10084.2	4973.5	3589.4	2298.1
11623.6	80°	10156.8	11165.6	10893.2	12539.6	6765.1	3607.5	2160.9	1279.2
8090.7	82.5°	4917.0	6174.0	6337.4	7467.3	3290.8	2122.6	498.4	278.4
3163.7	85°	1924.8	2978.0	2512.0	2834.8	924.1	591.2	12.1	0.0
520.6	87.5°	215.9	345.0	316.8	250.2	113.0	24.2	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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