

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: P953199

Luminaire Tested: **GALN-SB6D-827-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953199
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-SB6D-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 900mA 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: 40952 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

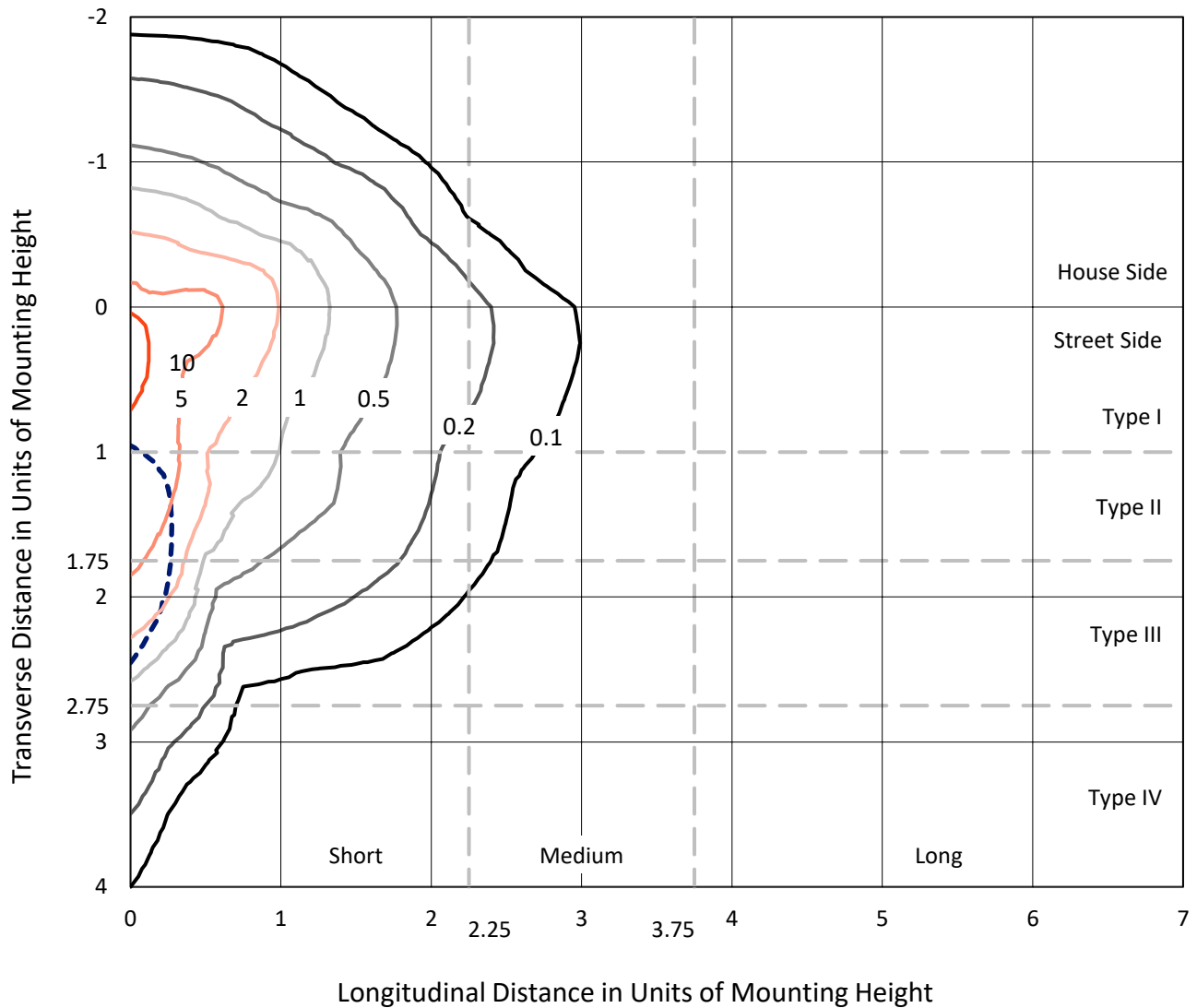
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

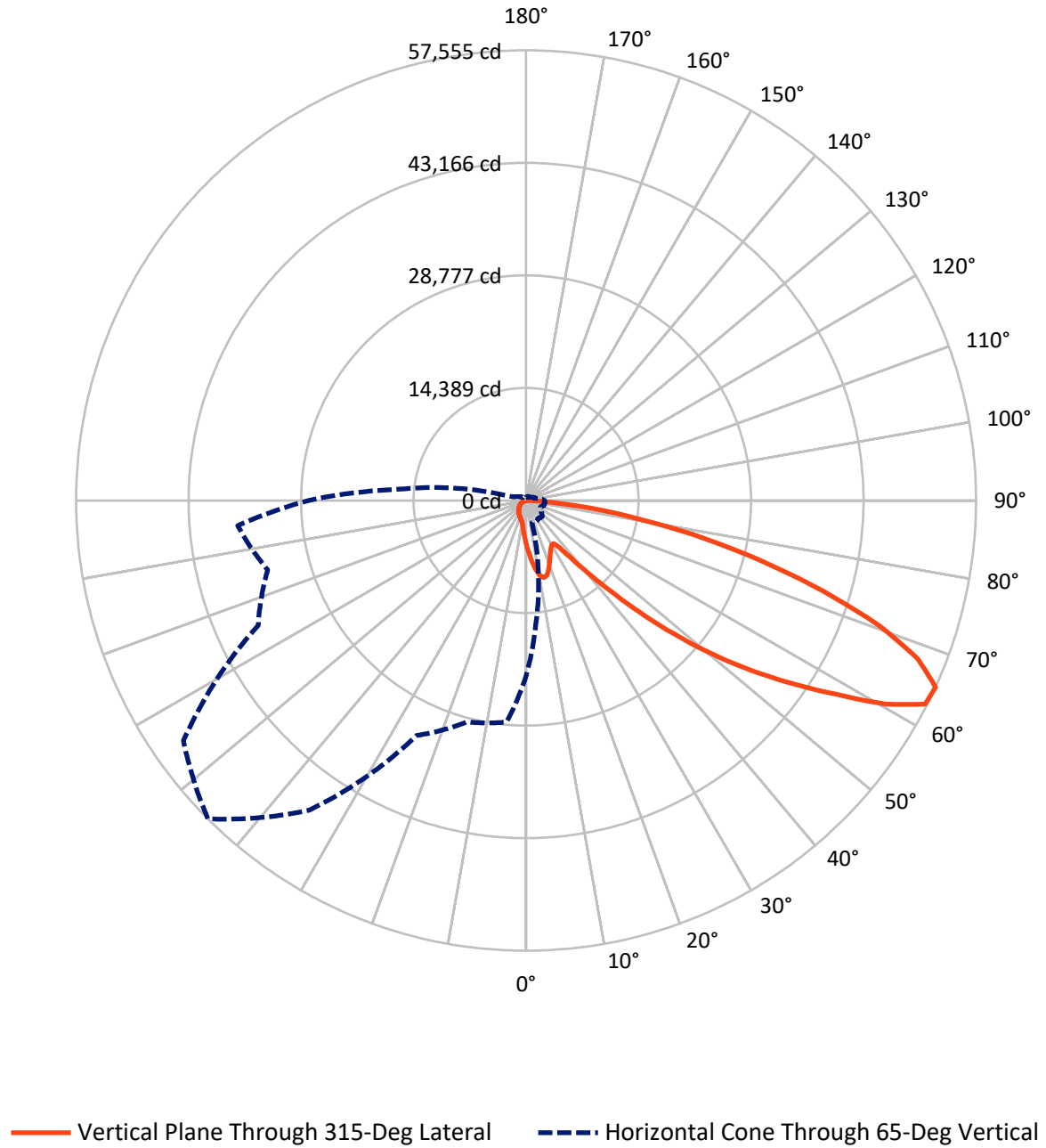
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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	5735.0	0.0	5735.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	35217.0	0.0	35217.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	40952.0	0.0	40952.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.3	1.4
10°-20°	1673.6	4.1
20°-30°	2465.5	6.0
30°-40°	3167.5	7.7
40°-50°	5122.8	12.5
50°-60°	8983.3	21.9
60°-70°	11240.6	27.4
70°-80°	6568.5	16.0
80°-90°	1171.9	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°	40952.0	100.0
0°-180°	40952.0	100.0

Coefficient of Utilization



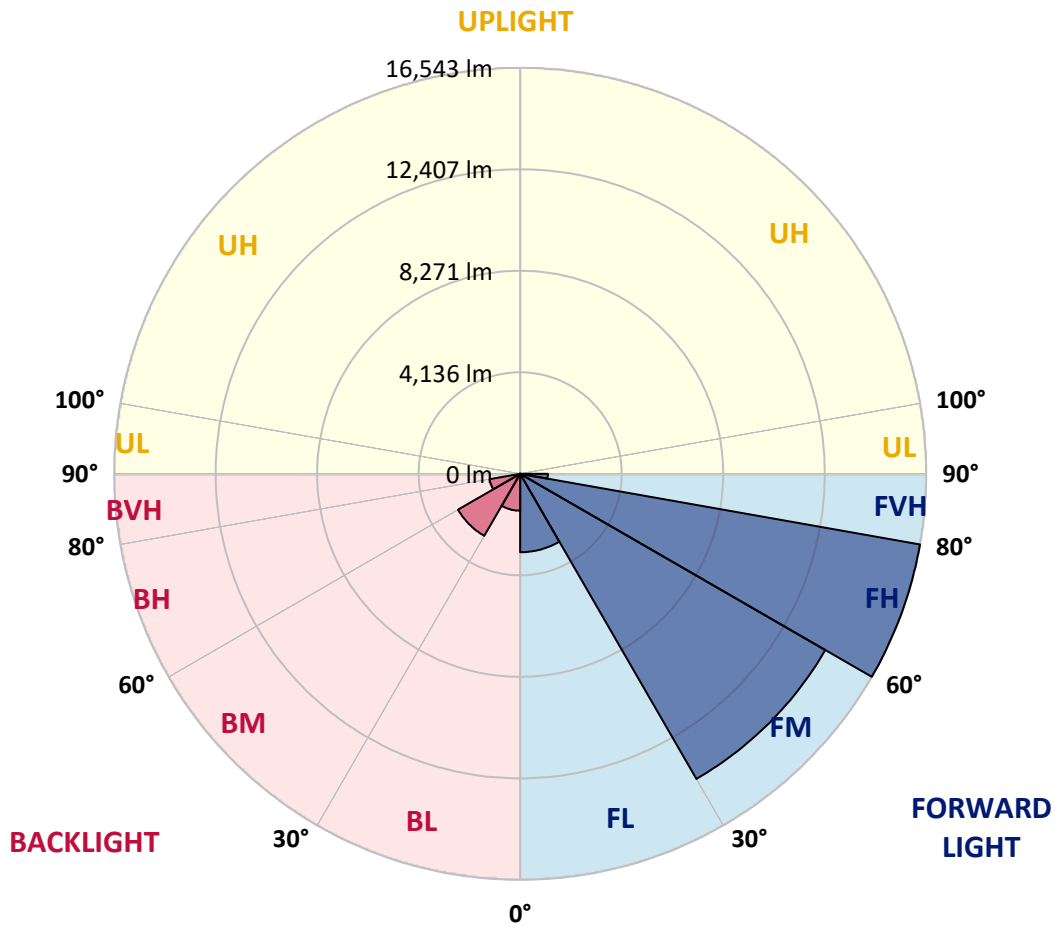
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3194.1	7.8			
FM (30°-60°)	14353.2	35.0			
FH (60°-80°)	16542.7	40.4			G5
FVH (80°-90°)	1126.9	2.8			G5
BL (0°-30°)	1503.3	3.7	B3/2500		
BM (30°-60°)	2920.4	7.1	B3/5000		
BH (60°-80°)	1266.3	3.1	B3/2500		G3/2500
BVH (80°-90°)	45.0	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°	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5
2.5°	6406.9	6296.8	6232.0	6071.1	5910.3	5780.6	5605.7	5490.0	5351.7	5219.2
5°	7140.4	6962.6	6748.2	6454.8	6186.8	5913.2	5648.0	5385.6	5109.1	4855.2
7.5°	7761.0	7504.3	7126.3	6736.9	6395.6	6065.5	5755.2	5408.2	5072.5	4674.7
10°	8235.0	7907.7	7411.2	6900.6	6508.4	6175.5	5873.7	5580.3	5241.7	4762.1
12.5°	8522.7	8172.9	7583.3	6985.2	6536.6	6164.2	5930.1	5800.3	5667.7	5190.9
15°	8734.3	8356.3	7704.6	7044.4	6471.8	6014.7	5842.6	5972.4	6124.7	5820.1
17.5°	8954.4	8556.6	7862.6	7069.8	6296.8	5724.1	5650.8	5986.5	6339.2	6325.1
20°	9163.1	8768.2	8000.8	7052.9	6014.7	5371.5	5436.4	5865.2	6274.3	6446.4
22.5°	9402.9	8985.4	8133.4	6988.0	5648.0	5041.4	5244.5	5673.4	6031.7	6234.8
25°	9696.3	9259.1	8319.6	6892.1	5253.0	4767.8	5049.9	5450.5	5741.1	5882.1
27.5°	10012.3	9586.3	8567.9	6841.3	4934.2	4573.1	4829.8	5185.3	5444.8	5543.6
30°	10404.5	9967.2	8861.3	6784.9	4725.5	4460.3	4601.3	4877.8	5131.7	5230.4
32.5°	10833.3	10390.4	9143.4	6649.5	4598.5	4375.6	4378.4	4553.4	4784.7	4903.2
35°	11369.3	10898.2	9445.3	6353.3	4496.9	4276.9	4161.2	4245.9	4437.7	4578.8
37.5°	12133.8	11564.0	9814.8	5930.1	4347.4	4124.5	3932.7	3952.5	4099.2	4254.3
40°	13188.9	12458.3	10249.3	5490.0	4133.0	3910.1	3681.6	3673.2	3780.4	3932.7
42.5°	14616.5	13640.3	10771.2	5069.6	3927.1	3650.6	3416.4	3402.3	3487.0	3619.6
45°	16501.0	15152.5	11411.6	4708.5	3766.3	3396.7	3165.3	3159.7	3230.2	3345.9
47.5°	18913.1	17254.2	12052.0	4463.1	3681.6	3196.4	2959.4	2970.7	3032.8	3137.1
50°	22036.1	19993.6	12246.7	4339.0	3681.6	3089.2	2776.0	2832.4	2883.2	2962.2
52.5°	25779.8	22622.9	11603.5	4226.1	3704.2	3103.3	2620.9	2742.2	2778.8	2846.6
55°	29249.8	23912.2	9975.6	4070.9	3709.8	3190.7	2488.3	2668.8	2736.5	2761.9
57.5°	31264.2	23469.3	8065.7	3808.6	3687.3	3250.0	2403.6	2578.5	2708.3	2725.2
60°	30880.5	21914.8	5938.6	3608.3	3520.8	3227.4	2378.2	2440.3	2646.3	2671.6
62.5°	27923.9	19308.1	4121.7	3453.1	3154.1	3128.7	2369.8	2223.1	2510.8	2572.9
65°	22445.2	15200.4	2911.4	2973.5	2764.7	2914.3	2324.6	1997.4	2347.2	2431.8
67.5°	16283.8	10286.0	2101.8	2409.3	2505.2	2567.3	2223.1	1833.8	2161.0	2273.9
70°	10449.6	5554.9	1475.5	1591.1	2110.2	2180.8	2048.2	1687.1	1972.0	2101.8
72.5°	7428.1	3281.0	1060.8	1114.4	1695.5	1816.8	1802.7	1523.4	1751.9	1909.9
75°	5126.1	1808.4	716.6	795.6	1230.0	1475.5	1390.8	1309.0	1483.9	1644.7
77.5°	3213.3	809.7	428.8	552.9	806.9	1159.5	953.6	1012.8	1156.7	1306.2
80°	1788.6	313.1	239.8	366.8	440.1	843.5	527.6	651.7	852.0	959.2
82.5°	389.3	39.5	107.2	158.0	172.1	490.9	279.3	378.0	536.0	527.6
85°	0.0	0.0	19.7	22.6	11.3	211.6	101.6	124.1	174.9	163.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6
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°
5670.5	0°	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5
5100.7	2.5°	5078.1	4939.9	4838.3	4787.5	4745.2	4784.7	4807.3	4807.3	4903.2	4959.6
4700.1	5°	4601.3	4353.1	4164.0	4037.1	3960.9	3986.3	4014.5	4045.6	4166.9	4248.7
4463.1	7.5°	4271.2	3890.4	3602.6	3424.9	3331.8	3345.9	3365.6	3391.0	3509.5	3591.3
4496.9	10°	4209.2	3661.9	3255.6	3021.5	2908.6	2888.9	2877.6	2869.1	2939.7	3001.7
4880.6	12.5°	4463.1	3673.2	3106.1	2821.2	2682.9	2623.7	2556.0	2502.4	2513.7	2553.2
5461.8	15°	4917.3	3817.0	3058.1	2716.8	2544.7	2446.0	2367.0	2302.1	2288.0	2302.1
5969.6	17.5°	5436.4	4011.7	3052.5	2626.5	2412.1	2310.5	2245.6	2186.4	2166.7	2169.5
6254.5	20°	5780.6	4166.9	3035.6	2524.9	2285.1	2194.9	2138.4	2079.2	2059.5	2065.1
6175.5	22.5°	5814.4	4248.7	3010.2	2412.1	2158.2	2082.0	2025.6	1972.0	1969.2	1969.2
5879.3	25°	5631.0	4248.7	2956.6	2310.5	2036.9	1969.2	1918.4	1853.5	1864.8	1870.4
5543.6	27.5°	5346.1	4147.1	2855.0	2228.7	1932.5	1862.0	1811.2	1751.9	1766.0	1774.5
5230.4	30°	5064.0	4017.3	2733.7	2135.6	1833.8	1751.9	1715.3	1664.5	1670.1	1681.4
4920.1	32.5°	4801.6	3879.1	2589.8	2059.5	1735.0	1653.2	1625.0	1568.6	1577.0	1588.3
4615.4	35°	4542.1	3726.8	2420.6	1969.2	1644.7	1562.9	1540.4	1475.5	1481.1	1498.0
4310.7	37.5°	4262.8	3566.0	2282.3	1878.9	1557.3	1472.6	1450.1	1382.4	1388.0	1407.8
3994.8	40°	3969.4	3408.0	2146.9	1783.0	1464.2	1379.5	1359.8	1286.5	1292.1	1314.7
3684.4	42.5°	3673.2	3235.9	2042.5	1658.8	1368.3	1278.0	1258.2	1190.5	1199.0	1224.4
3413.6	45°	3399.5	3029.9	1974.8	1520.6	1278.0	1176.4	1156.7	1094.6	1111.5	1139.8
3185.1	47.5°	3165.3	2818.3	1946.6	1404.9	1182.1	1072.0	1055.1	1004.3	1032.5	1063.6
2990.4	50°	2965.0	2615.2	1909.9	1286.5	1091.8	981.8	964.8	931.0	967.7	998.7
2857.8	52.5°	2821.2	2383.9	1830.9	1179.2	1012.8	905.6	900.0	883.0	916.9	945.1
2759.1	55°	2697.0	2144.1	1704.0	1086.1	942.3	840.7	846.3	837.9	866.1	888.7
2699.9	57.5°	2584.2	1935.3	1543.2	1012.8	866.1	784.3	801.2	789.9	804.0	818.1
2637.8	60°	2448.8	1723.7	1351.3	931.0	775.8	727.9	747.6	716.6	713.8	719.4
2524.9	62.5°	2248.5	1438.8	1151.0	829.4	696.8	665.8	674.3	615.0	569.9	569.9
2358.5	65°	1969.2	1156.7	964.8	716.6	606.6	581.2	575.5	490.9	428.8	423.2
2177.9	67.5°	1644.7	950.7	801.2	603.7	505.0	488.1	493.7	431.6	369.6	363.9
1997.4	70°	1340.1	787.1	646.0	482.4	389.3	406.2	431.6	369.6	310.3	301.9
1785.8	72.5°	1089.0	626.3	505.0	369.6	287.8	335.7	366.8	301.9	245.4	239.8
1523.4	75°	840.7	459.8	361.1	251.1	208.8	259.5	287.8	220.1	174.9	166.4
1179.2	77.5°	561.4	284.9	203.1	158.0	124.1	177.7	191.8	115.7	101.6	98.7
857.6	80°	341.4	132.6	87.5	76.2	42.3	64.9	76.2	48.0	53.6	56.4
457.0	82.5°	172.1	36.7	14.1	2.8	0.0	0.0	22.6	11.3	22.6	28.2
124.1	85°	14.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	14.1
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°
5670.5	0°	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5
4982.2	2.5°	5140.2	5258.7	5371.5	5552.1	5738.2	5921.6	6107.8	6288.4	6353.3	6401.2
4302.3	5°	4547.7	4770.6	5030.1	5388.4	5772.1	6167.1	6567.7	6934.4	7100.9	7213.7
3661.9	7.5°	3935.5	4226.1	4598.5	5137.3	5738.2	6367.4	6996.5	7574.8	7842.8	8060.1
3058.1	10°	3329.0	3644.9	4116.1	4731.1	5543.6	6446.4	7315.3	8110.8	8457.9	8731.5
2623.7	12.5°	2795.8	3092.0	3585.7	4265.6	5238.9	6384.3	7498.7	8455.0	8864.1	9171.6
2313.4	15°	2420.6	2629.3	3066.6	3800.1	4877.8	6184.0	7509.9	8618.7	9067.2	9388.8
2183.6	17.5°	2211.8	2282.3	2567.3	3326.2	4477.2	5921.6	7405.6	8675.1	9154.7	9453.7
2067.9	20°	2098.9	2110.2	2189.2	2711.1	3963.7	5676.2	7306.8	8731.5	9236.5	9487.6
1986.1	22.5°	2008.7	2008.7	2028.4	2217.4	3300.8	5382.8	7275.8	8830.2	9349.3	9504.5
1893.0	25°	1926.9	1926.9	1932.5	1983.3	2615.2	4934.2	7256.0	8982.6	9504.5	9546.8
1799.9	27.5°	1842.2	1845.0	1845.0	1873.3	2107.4	4324.8	7171.4	9180.1	9690.7	9603.2
1709.6	30°	1757.6	1763.2	1763.2	1783.0	1864.8	3611.1	7005.0	9417.0	9933.3	9676.6
1619.3	32.5°	1673.0	1678.6	1678.6	1695.5	1754.8	2883.2	6796.2	9634.3	10178.8	9707.6
1531.9	35°	1585.5	1594.0	1588.3	1610.9	1673.0	2293.6	6531.0	9851.5	10444.0	9806.4
1447.3	37.5°	1498.0	1503.7	1500.9	1523.4	1594.0	1980.5	6223.5	10015.1	10805.1	10026.4
1357.0	40°	1410.6	1407.8	1407.8	1433.2	1509.3	1890.2	5837.0	10274.7	11324.2	10412.9
1266.7	42.5°	1320.3	1320.3	1314.7	1342.9	1436.0	1822.5	5467.4	10740.2	12080.2	11027.9
1182.1	45°	1238.5	1235.7	1224.4	1249.8	1365.4	1704.0	5337.6	11609.1	13197.4	12023.8
1097.4	47.5°	1159.5	1156.7	1128.5	1151.0	1280.8	1596.8	5822.9	13031.0	14746.2	13488.0
1029.7	50°	1089.0	1091.8	1038.2	1057.9	1196.2	1515.0	6875.2	14876.0	16802.9	15460.0
973.3	52.5°	1024.1	1024.1	953.6	964.8	1091.8	1441.6	7876.7	16876.2	19516.8	18210.6
914.1	55°	959.2	953.6	874.6	880.2	987.4	1337.2	8026.2	18828.5	23218.2	22349.3
849.2	57.5°	885.8	874.6	801.2	801.2	891.5	1261.1	6957.0	20329.3	27811.0	28431.7
727.9	60°	795.6	787.1	739.1	725.0	815.3	1328.8	4908.8	20504.2	30773.3	36520.0
578.3	62.5°	679.9	691.2	665.8	646.0	742.0	1379.5	2908.6	19096.5	30056.7	39092.9
448.6	65°	536.0	581.2	575.5	561.4	815.3	1162.3	1718.1	16393.8	27859.0	37016.5
392.1	67.5°	457.0	488.1	479.6	479.6	854.8	883.0	1080.5	12808.1	24834.7	34553.6
327.3	70°	389.3	420.4	389.3	389.3	646.0	536.0	747.6	8943.1	21570.6	31828.4
262.4	72.5°	321.6	352.6	318.8	296.2	516.3	400.6	547.3	5588.7	18473.0	28990.3
186.2	75°	245.4	282.1	256.7	228.5	341.4	299.0	414.7	3247.2	15304.8	24803.7
112.8	77.5°	155.2	203.1	191.8	160.8	251.1	217.2	299.0	1932.5	11809.4	19381.4
67.7	80°	95.9	104.4	107.2	101.6	143.9	146.7	203.1	1100.3	8082.6	13507.7
42.3	82.5°	62.1	62.1	48.0	53.6	70.5	84.6	115.7	414.7	4750.8	8223.7
25.4	85°	45.1	39.5	25.4	25.4	33.9	42.3	45.1	127.0	1926.9	3247.2
11.3	87.5°	22.6	19.7	8.5	11.3	16.9	14.1	11.3	5.6	485.2	1038.2
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°
5670.5	0°	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5	5670.5
6508.4	2.5°	6564.9	6652.3	6657.9	6657.9	6581.8	6579.0	6423.8	6406.9
7467.6	5°	7730.0	7786.4	7800.5	7772.3	7620.0	7507.1	7205.3	7140.4
8446.6	7.5°	8796.4	8909.2	8909.2	8841.5	8593.3	8361.9	7924.7	7761.0
9256.2	10°	9648.4	9778.2	9749.9	9611.7	9298.6	8979.8	8449.4	8235.0
9747.1	12.5°	10063.1	10195.7	10122.3	9964.4	9659.7	9324.0	8765.4	8522.7
9888.2	15°	10054.6	10018.0	9941.8	9922.0	9775.3	9521.4	8999.5	8734.3
9800.7	17.5°	9696.3	9386.0	9326.8	9524.3	9710.4	9648.4	9202.6	8954.4
9592.0	20°	9129.3	8587.6	8534.0	8912.1	9442.4	9713.3	9391.7	9163.1
9290.1	22.5°	8531.2	7947.2	7823.1	8240.6	9039.0	9733.0	9631.5	9402.9
8957.2	25°	7964.1	7377.3	7253.2	7642.5	8590.4	9699.2	9891.0	9696.3
8638.4	27.5°	7490.2	6923.1	6807.5	7196.8	8158.8	9603.2	10150.6	10012.3
8322.4	30°	7123.4	6598.7	6514.1	6889.3	7786.4	9484.8	10480.6	10404.5
8029.0	32.5°	6909.0	6525.4	6556.4	6863.9	7586.1	9355.0	10796.6	10833.3
7885.2	35°	7120.6	7137.5	7408.4	7535.3	7772.3	9335.2	11225.4	11369.3
8057.2	37.5°	8172.9	8759.7	9321.1	9216.7	8683.5	9563.7	11865.8	12133.8
8807.7	40°	9964.4	11169.0	12080.2	11682.4	10339.6	10263.4	12788.3	13188.9
10139.3	42.5°	12153.6	14196.1	15697.0	14630.6	12475.2	11487.8	14105.8	14616.5
11750.2	45°	14464.1	17928.5	20292.6	18075.2	14751.9	13203.1	16100.4	16501.0
13259.5	47.5°	16898.8	22464.9	25523.1	21895.1	16862.1	15155.3	18820.0	18913.1
14689.8	50°	19562.0	27438.7	30855.1	25712.1	18899.0	17392.5	22143.3	22036.1
16357.1	52.5°	22098.2	32553.4	36074.2	29546.1	20687.6	20168.5	25999.9	25779.8
18636.6	55°	24518.7	37665.4	41324.4	33230.5	22374.7	23836.0	30581.4	29249.8
21923.3	57.5°	27325.8	42261.1	46735.4	36931.9	24733.2	28598.1	35704.7	31264.2
28217.3	60°	31475.7	47483.0	52854.5	42004.3	29218.8	33602.9	37541.2	30880.5
35755.4	62.5°	36773.9	52284.7	57303.5	46975.2	33724.2	34545.2	34835.7	27923.9
34217.9	65°	37803.6	53500.6	57554.6	48304.0	33143.0	29303.4	28440.2	22445.2
30564.5	67.5°	35072.7	51302.9	54045.1	45829.8	29317.5	22645.5	21342.1	16283.8
28166.5	70°	32008.9	47113.5	47928.8	41623.5	25785.4	16656.2	14413.3	10449.6
26524.6	72.5°	28869.0	41524.7	39837.7	36147.6	22662.4	12128.2	10396.0	7428.1
24185.8	75°	25139.4	34175.6	31379.8	30034.1	18763.6	9518.6	7521.2	5126.1
20803.3	77.5°	20131.8	24056.1	23308.5	23280.3	14100.2	6954.2	5018.9	3213.3
16252.7	80°	14201.7	15612.3	15231.5	17533.5	9459.4	5044.2	3021.5	1788.6
11312.9	82.5°	6875.2	8632.8	8861.3	10441.1	4601.3	2967.9	696.8	389.3
4423.6	85°	2691.4	4164.0	3512.4	3963.7	1292.1	826.6	16.9	0.0
727.9	87.5°	301.9	482.4	442.9	349.8	158.0	33.9	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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