

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: P952485

Luminaire Tested: **GALN-SB6B-827-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952485
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-SB6B-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 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: 22661 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

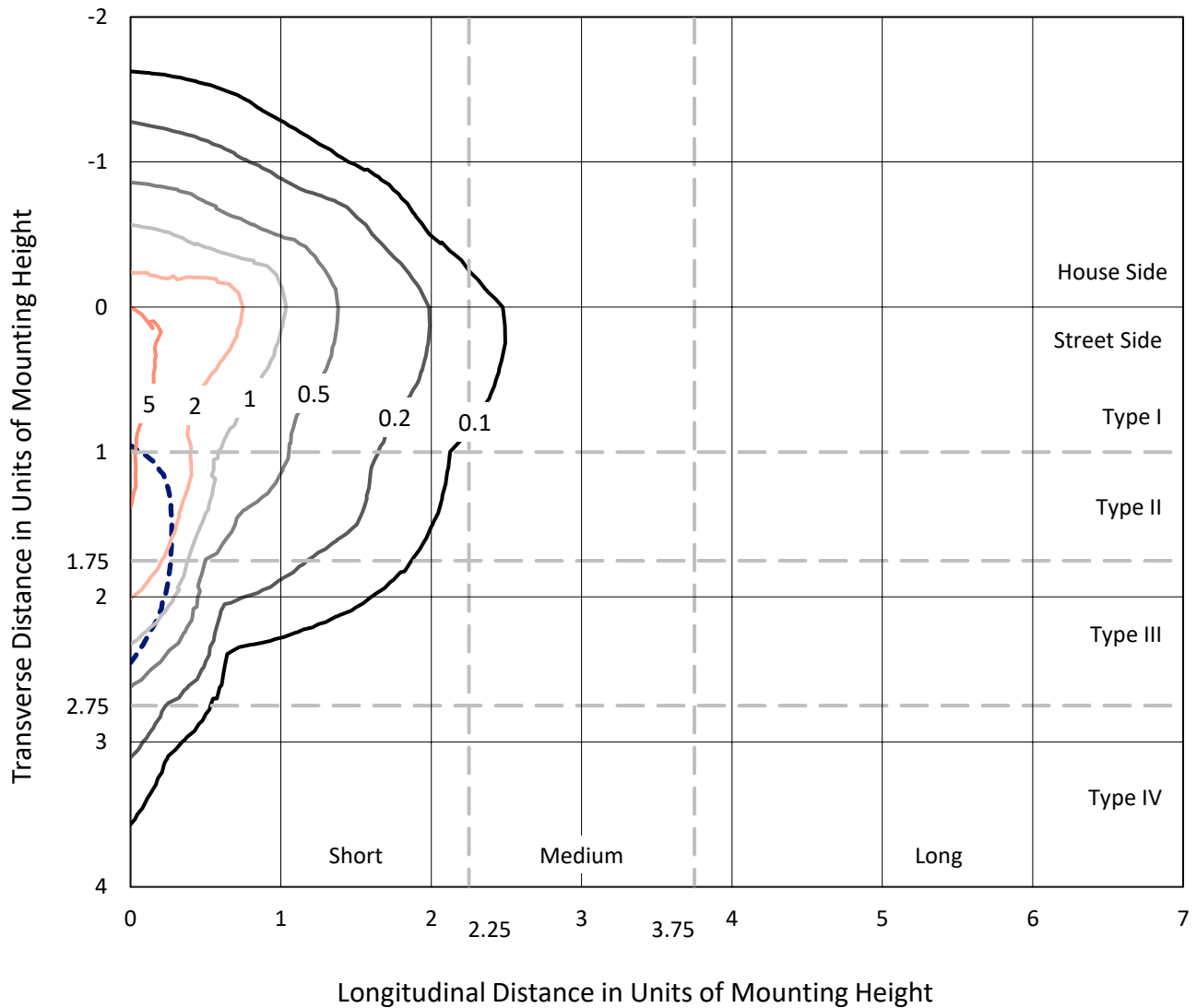
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

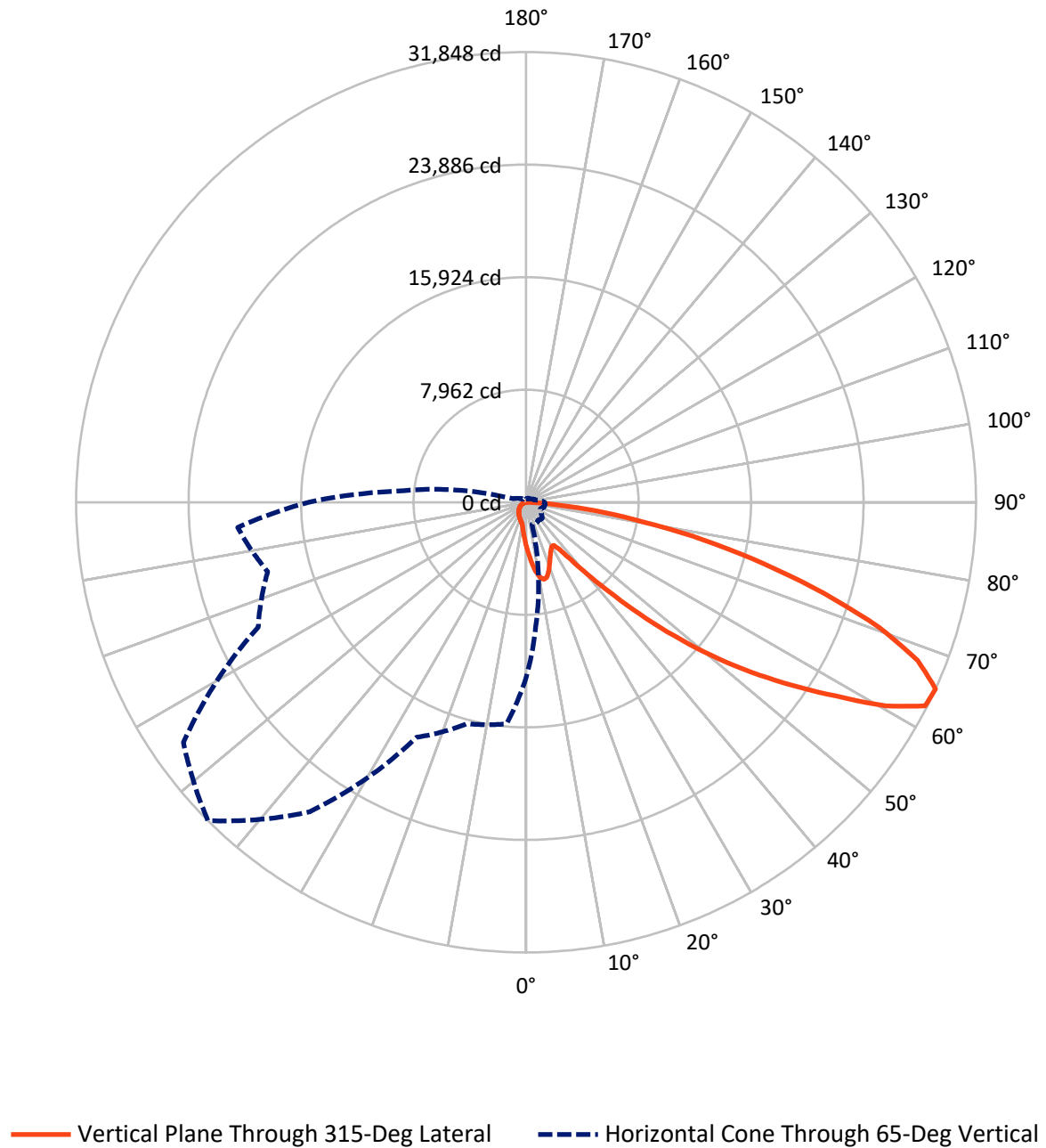
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	3173.5	0.0	3173.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	19487.5	0.0	19487.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	22661.0	0.0	22661.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.9	1.4
10°-20°	926.1	4.1
20°-30°	1364.3	6.0
30°-40°	1752.8	7.7
40°-50°	2834.7	12.5
50°-60°	4971.0	21.9
60°-70°	6220.0	27.4
70°-80°	3634.7	16.0
80°-90°	648.5	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°	22661.0	100.0
0°-180°	22661.0	100.0

Coefficient of Utilization



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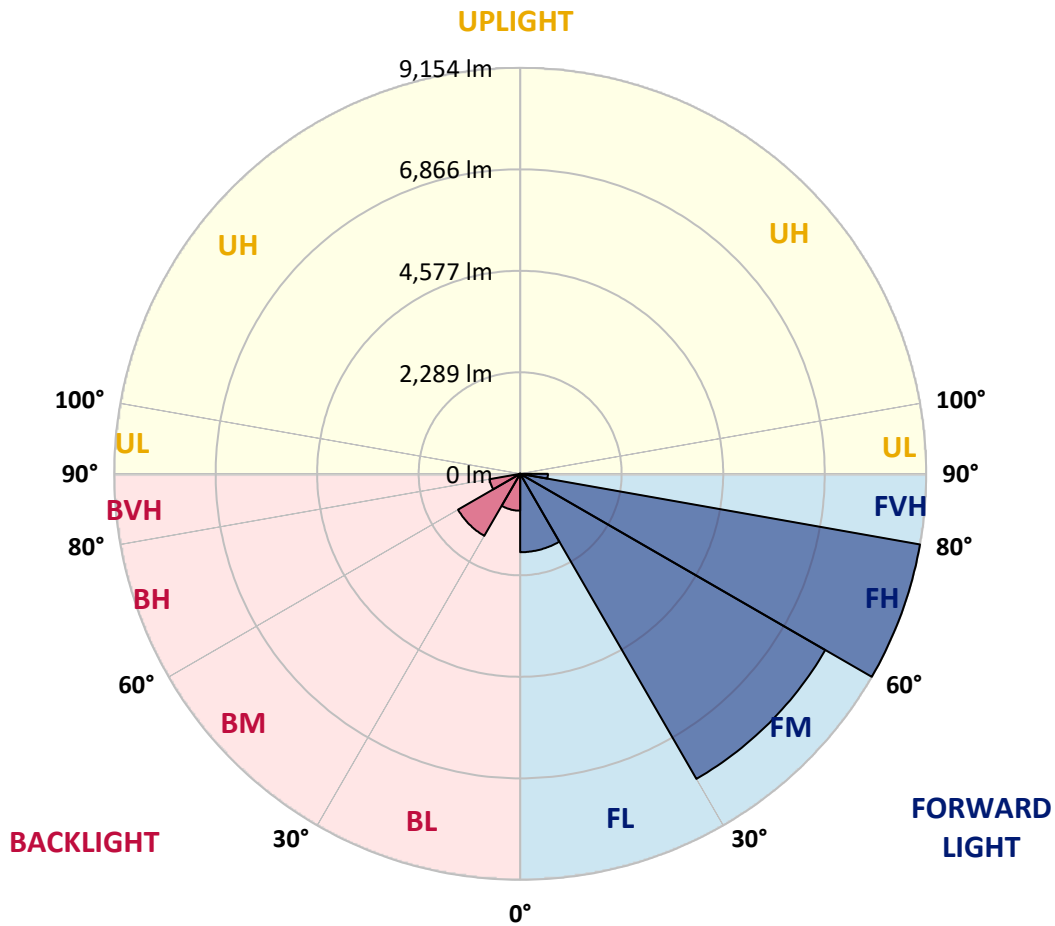
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1767.5	7.8			
FM (30°-60°)	7942.4	35.0			
FH (60°-80°)	9154.0	40.4			G4/12000
FVH (80°-90°)	623.6	2.8			G4/750
BL (0°-30°)	831.8	3.7	B2/1000		
BM (30°-60°)	1616.0	7.1	B2/2500		
BH (60°-80°)	700.7	3.1	B2/1000		G2/1000
BVH (80°-90°)	24.9	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°	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8
2.5°	3545.3	3484.4	3448.5	3359.5	3270.5	3198.7	3101.9	3037.9	2961.4	2888.0
5°	3951.2	3852.8	3734.2	3571.8	3423.5	3272.1	3125.3	2980.2	2827.2	2686.7
7.5°	4294.6	4152.5	3943.4	3727.9	3539.0	3356.4	3184.7	2992.6	2806.9	2586.8
10°	4556.9	4375.8	4101.0	3818.5	3601.5	3417.3	3250.2	3087.9	2900.5	2635.1
12.5°	4716.1	4522.5	4196.3	3865.3	3617.1	3411.0	3281.4	3209.6	3136.3	2872.4
15°	4833.2	4624.0	4263.4	3898.1	3581.2	3328.3	3233.1	3304.9	3389.2	3220.6
17.5°	4955.0	4734.8	4350.8	3912.1	3484.4	3167.5	3126.9	3312.7	3507.8	3500.0
20°	5070.5	4851.9	4427.3	3902.8	3328.3	2972.3	3008.3	3245.5	3471.9	3567.1
22.5°	5203.2	4972.1	4500.7	3866.9	3125.3	2789.7	2902.1	3139.4	3337.6	3450.0
25°	5365.5	5123.6	4603.7	3813.8	2906.8	2638.3	2794.4	3016.1	3176.9	3254.9
27.5°	5540.4	5304.6	4741.1	3785.7	2730.4	2530.6	2672.6	2869.3	3012.9	3067.6
30°	5757.4	5515.4	4903.4	3754.5	2614.9	2468.1	2546.2	2699.2	2839.7	2894.3
32.5°	5994.6	5749.6	5059.5	3679.5	2544.6	2421.3	2422.8	2519.6	2647.6	2713.2
35°	6291.3	6030.6	5226.6	3515.6	2488.4	2366.6	2302.6	2349.5	2455.6	2533.7
37.5°	6714.3	6399.0	5431.1	3281.4	2405.7	2282.3	2176.2	2187.1	2268.3	2354.1
40°	7298.2	6893.8	5671.5	3037.9	2287.0	2163.7	2037.2	2032.6	2091.9	2176.2
42.5°	8088.1	7547.9	5960.3	2805.3	2173.1	2020.1	1890.5	1882.7	1929.5	2002.9
45°	9130.9	8384.7	6314.7	2605.5	2084.1	1879.6	1751.6	1748.4	1787.5	1851.5
47.5°	10465.7	9547.7	6669.0	2469.7	2037.2	1768.7	1637.6	1643.8	1678.2	1736.0
50°	12193.8	11063.6	6776.8	2401.0	2037.2	1709.4	1536.1	1567.4	1595.5	1639.2
52.5°	14265.4	12518.5	6420.8	2338.5	2049.7	1717.2	1450.3	1517.4	1537.7	1575.2
55°	16185.5	13231.9	5520.1	2252.7	2052.9	1765.6	1376.9	1476.8	1514.3	1528.3
57.5°	17300.2	12986.8	4463.2	2107.5	2040.4	1798.4	1330.1	1426.9	1498.7	1508.0
60°	17087.9	12126.7	3286.1	1996.7	1948.3	1785.9	1316.0	1350.4	1464.3	1478.4
62.5°	15451.8	10684.2	2280.8	1910.8	1745.3	1731.3	1311.3	1230.2	1389.4	1423.7
65°	12420.2	8411.2	1611.1	1645.4	1529.9	1612.6	1286.4	1105.3	1298.8	1345.7
67.5°	9010.7	5691.8	1163.0	1333.2	1386.3	1420.6	1230.2	1014.7	1195.8	1258.3
70°	5782.3	3073.8	816.5	880.5	1167.7	1206.7	1133.4	933.5	1091.2	1163.0
72.5°	4110.4	1815.6	587.0	616.6	938.2	1005.4	997.5	843.0	969.4	1056.9
75°	2836.5	1000.7	396.5	440.2	680.6	816.5	769.6	724.4	821.1	910.1
77.5°	1778.1	448.0	237.3	306.0	446.5	641.6	527.7	560.4	640.1	722.8
80°	989.7	173.3	132.7	202.9	243.5	466.8	291.9	360.6	471.5	530.8
82.5°	215.4	21.9	59.3	87.4	95.2	271.6	154.5	209.2	296.6	291.9
85°	0.0	0.0	10.9	12.5	6.2	117.1	56.2	68.7	96.8	90.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
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°
3137.8	0°	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8
2822.5	2.5°	2810.0	2733.5	2677.3	2649.2	2625.8	2647.6	2660.1	2660.1	2713.2	2744.4
2600.8	5°	2546.2	2408.8	2304.2	2233.9	2191.8	2205.8	2221.5	2238.6	2305.8	2351.0
2469.7	7.5°	2363.5	2152.8	1993.5	1895.2	1843.7	1851.5	1862.4	1876.4	1942.0	1987.3
2488.4	10°	2329.2	2026.3	1801.5	1671.9	1609.5	1598.6	1592.3	1587.6	1626.7	1661.0
2700.7	12.5°	2469.7	2032.6	1718.8	1561.1	1484.6	1451.8	1414.4	1384.7	1390.9	1412.8
3022.3	15°	2721.0	2112.2	1692.2	1503.3	1408.1	1353.5	1309.8	1273.9	1266.1	1273.9
3303.3	17.5°	3008.3	2219.9	1689.1	1453.4	1334.7	1278.5	1242.6	1209.9	1198.9	1200.5
3461.0	20°	3198.7	2305.8	1679.8	1397.2	1264.5	1214.5	1183.3	1150.5	1139.6	1142.7
3417.3	22.5°	3217.4	2351.0	1665.7	1334.7	1194.2	1152.1	1120.9	1091.2	1089.7	1089.7
3253.3	25°	3116.0	2351.0	1636.0	1278.5	1127.1	1089.7	1061.6	1025.6	1031.9	1035.0
3067.6	27.5°	2958.3	2294.8	1579.8	1233.3	1069.4	1030.3	1002.2	969.4	977.3	981.9
2894.3	30°	2802.2	2223.0	1512.7	1181.8	1014.7	969.4	949.2	921.1	924.2	930.4
2722.6	32.5°	2657.0	2146.5	1433.1	1139.6	960.1	914.8	899.2	868.0	872.7	878.9
2554.0	35°	2513.4	2062.2	1339.4	1089.7	910.1	864.9	852.4	816.5	819.6	828.9
2385.4	37.5°	2358.8	1973.2	1262.9	1039.7	861.7	814.9	802.4	764.9	768.1	779.0
2210.5	40°	2196.5	1885.8	1188.0	986.6	810.2	763.4	752.5	711.9	715.0	727.5
2038.8	42.5°	2032.6	1790.6	1130.2	917.9	757.1	707.2	696.3	658.8	663.5	677.5
1888.9	45°	1881.1	1676.6	1092.8	841.4	707.2	651.0	640.1	605.7	615.1	630.7
1762.5	47.5°	1751.6	1559.5	1077.2	777.4	654.1	593.2	583.9	555.8	571.4	588.5
1654.8	50°	1640.7	1447.1	1056.9	711.9	604.1	543.3	533.9	515.2	535.5	552.6
1581.4	52.5°	1561.1	1319.1	1013.2	652.5	560.4	501.1	498.0	488.6	507.4	523.0
1526.8	55°	1492.4	1186.4	942.9	601.0	521.4	465.2	468.3	463.6	479.3	491.7
1494.0	57.5°	1430.0	1070.9	853.9	560.4	479.3	434.0	443.4	437.1	444.9	452.7
1459.6	60°	1355.0	953.8	747.8	515.2	429.3	402.8	413.7	396.5	395.0	398.1
1397.2	62.5°	1244.2	796.2	636.9	459.0	385.6	368.4	373.1	340.3	315.3	315.3
1305.1	65°	1089.7	640.1	533.9	396.5	335.6	321.6	318.5	271.6	237.3	234.2
1205.2	67.5°	910.1	526.1	443.4	334.1	279.4	270.1	273.2	238.8	204.5	201.4
1105.3	70°	741.5	435.5	357.5	266.9	215.4	224.8	238.8	204.5	171.7	167.0
988.2	72.5°	602.6	346.6	279.4	204.5	159.2	185.8	202.9	167.0	135.8	132.7
843.0	75°	465.2	254.5	199.8	138.9	115.5	143.6	159.2	121.8	96.8	92.1
652.5	77.5°	310.7	157.7	112.4	87.4	68.7	98.3	106.2	64.0	56.2	54.6
474.6	80°	188.9	73.4	48.4	42.1	23.4	35.9	42.1	26.5	29.7	31.2
252.9	82.5°	95.2	20.3	7.8	1.6	0.0	0.0	12.5	6.2	12.5	15.6
68.7	85°	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	7.8
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°
3137.8	0°	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8
2756.9	2.5°	2844.3	2909.9	2972.3	3072.3	3175.3	3276.8	3379.8	3479.7	3515.6	3542.1
2380.7	5°	2516.5	2639.8	2783.5	2981.7	3194.0	3412.6	3634.3	3837.2	3929.3	3991.7
2026.3	7.5°	2177.7	2338.5	2544.6	2842.8	3175.3	3523.4	3871.5	4191.6	4339.9	4460.1
1692.2	10°	1842.1	2016.9	2277.7	2618.0	3067.6	3567.1	4047.9	4488.2	4680.2	4831.6
1451.8	12.5°	1547.1	1711.0	1984.2	2360.4	2899.0	3532.8	4149.4	4678.6	4905.0	5075.2
1280.1	15°	1339.4	1455.0	1696.9	2102.8	2699.2	3421.9	4155.7	4769.2	5017.4	5195.4
1208.3	17.5°	1223.9	1262.9	1420.6	1840.5	2477.5	3276.8	4097.9	4800.4	5065.8	5231.3
1144.3	20°	1161.5	1167.7	1211.4	1500.2	2193.4	3140.9	4043.3	4831.6	5111.1	5250.0
1099.0	22.5°	1111.5	1111.5	1122.4	1227.0	1826.5	2978.6	4026.1	4886.3	5173.5	5259.4
1047.5	25°	1066.2	1066.2	1069.4	1097.5	1447.1	2730.4	4015.2	4970.6	5259.4	5282.8
996.0	27.5°	1019.4	1021.0	1021.0	1036.6	1166.1	2393.2	3968.3	5079.8	5362.4	5314.0
946.0	30°	972.6	975.7	975.7	986.6	1031.9	1998.2	3876.2	5211.0	5496.7	5354.6
896.1	32.5°	925.7	928.9	928.9	938.2	971.0	1595.5	3760.7	5331.2	5632.5	5371.8
847.7	35°	877.3	882.0	878.9	891.4	925.7	1269.2	3614.0	5451.4	5779.2	5426.4
800.8	37.5°	828.9	832.1	830.5	843.0	882.0	1095.9	3443.8	5541.9	5979.0	5548.2
750.9	40°	780.6	779.0	779.0	793.0	835.2	1045.9	3229.9	5685.5	6266.3	5762.0
700.9	42.5°	730.6	730.6	727.5	743.1	794.6	1008.5	3025.4	5943.1	6684.7	6102.4
654.1	45°	685.3	683.8	677.5	691.6	755.6	942.9	2953.6	6424.0	7302.9	6653.4
607.3	47.5°	641.6	640.1	624.4	636.9	708.7	883.6	3222.1	7210.7	8159.9	7463.6
569.8	50°	602.6	604.1	574.5	585.4	661.9	838.3	3804.4	8231.7	9297.9	8554.9
538.6	52.5°	566.7	566.7	527.7	533.9	604.1	797.7	4358.6	9338.5	10799.7	10076.9
505.8	55°	530.8	527.7	483.9	487.1	546.4	740.0	4441.3	10418.8	12847.9	12367.1
469.9	57.5°	490.2	483.9	443.4	443.4	493.3	697.8	3849.7	11249.3	15389.4	15732.8
402.8	60°	440.2	435.5	409.0	401.2	451.2	735.3	2716.3	11346.1	17028.5	20208.5
320.0	62.5°	376.2	382.5	368.4	357.5	410.6	763.4	1609.5	10567.1	16632.0	21632.2
248.2	65°	296.6	321.6	318.5	310.7	451.2	643.2	950.7	9071.6	15415.9	20483.3
217.0	67.5°	252.9	270.1	265.4	265.4	473.0	488.6	597.9	7087.4	13742.4	19120.4
181.1	70°	215.4	232.6	215.4	215.4	357.5	296.6	413.7	4948.7	11936.2	17612.4
145.2	72.5°	178.0	195.1	176.4	163.9	285.7	221.7	302.9	3092.6	10222.1	16041.9
103.0	75°	135.8	156.1	142.1	126.4	188.9	165.5	229.5	1796.8	8469.0	13725.2
62.4	77.5°	85.9	112.4	106.2	89.0	138.9	120.2	165.5	1069.4	6534.8	10724.8
37.5	80°	53.1	57.8	59.3	56.2	79.6	81.2	112.4	608.8	4472.6	7474.6
23.4	82.5°	34.3	34.3	26.5	29.7	39.0	46.8	64.0	229.5	2628.9	4550.6
14.0	85°	25.0	21.9	14.0	14.0	18.7	23.4	25.0	70.2	1066.2	1796.8
6.2	87.5°	12.5	10.9	4.7	6.2	9.4	7.8	6.2	3.1	268.5	574.5
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°
3137.8	0°	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8
3601.5	2.5°	3632.7	3681.1	3684.2	3684.2	3642.1	3640.5	3554.6	3545.3
4132.2	5°	4277.4	4308.7	4316.5	4300.8	4216.5	4154.1	3987.1	3951.2
4674.0	7.5°	4867.5	4930.0	4930.0	4892.5	4755.1	4627.1	4385.1	4294.6
5122.0	10°	5339.0	5410.8	5395.2	5318.7	5145.4	4969.0	4675.5	4556.9
5393.6	12.5°	5568.5	5641.8	5601.2	5513.8	5345.2	5159.5	4850.4	4716.1
5471.7	15°	5563.8	5543.5	5501.3	5490.4	5409.2	5268.7	4979.9	4833.2
5423.3	17.5°	5365.5	5193.8	5161.0	5270.3	5373.3	5339.0	5092.3	4955.0
5307.8	20°	5051.7	4752.0	4722.3	4931.5	5225.0	5374.9	5196.9	5070.5
5140.7	22.5°	4720.8	4397.6	4328.9	4560.0	5001.8	5385.8	5329.6	5203.2
4956.5	25°	4407.0	4082.3	4013.6	4229.0	4753.6	5367.1	5473.2	5365.5
4780.1	27.5°	4144.7	3831.0	3766.9	3982.4	4514.7	5314.0	5616.9	5540.4
4605.3	30°	3941.8	3651.4	3604.6	3812.2	4308.7	5248.4	5799.5	5757.4
4442.9	32.5°	3823.1	3610.8	3628.0	3798.2	4197.8	5176.6	5974.4	5994.6
4363.3	35°	3940.2	3949.6	4099.5	4169.7	4300.8	5165.7	6211.6	6291.3
4458.5	37.5°	4522.5	4847.2	5157.9	5100.1	4805.1	5292.1	6566.0	6714.3
4873.8	40°	5513.8	6180.4	6684.7	6464.5	5721.5	5679.3	7076.5	7298.2
5610.6	42.5°	6725.2	7855.5	8686.0	8095.9	6903.2	6356.8	7805.5	8088.1
6502.0	45°	8003.8	9920.8	11229.0	10002.0	8163.0	7306.0	8909.2	9130.9
7337.2	47.5°	9351.0	12431.1	14123.3	12115.7	9330.7	8386.3	10414.1	10465.7
8128.7	50°	10824.7	15183.3	17073.8	14227.9	10457.9	9624.2	12253.1	12193.8
9051.3	52.5°	12228.1	18013.6	19961.9	16349.5	11447.6	11160.3	14387.2	14265.4
10312.7	55°	13567.6	20842.3	22867.1	18388.3	12381.1	13189.8	16922.4	16185.5
12131.4	57.5°	15120.9	23385.4	25861.3	20436.4	13686.2	15824.9	19757.4	17300.2
15614.2	60°	17417.3	26275.0	29247.3	23243.3	16168.4	18594.3	20773.6	17087.9
19785.5	62.5°	20349.0	28932.0	31709.2	25994.0	18661.5	19115.7	19276.5	15451.8
18934.7	65°	20918.8	29604.8	31848.1	26729.3	18339.9	16215.2	15737.5	12420.2
16913.0	67.5°	19407.7	28388.7	29906.1	25360.2	16223.0	12531.0	11809.8	9010.7
15586.1	70°	17712.3	26070.5	26521.6	23032.6	14268.5	9216.8	7975.7	5782.3
14677.5	72.5°	15974.8	22977.9	22044.4	20002.5	12540.4	6711.2	5752.7	4110.4
13383.4	75°	13911.0	18911.2	17364.2	16619.5	10382.9	5267.2	4161.9	2836.5
11511.6	77.5°	11140.1	13311.6	12897.9	12882.2	7802.4	3848.1	2777.2	1778.1
8993.5	80°	7858.6	8639.2	8428.4	9702.3	5234.4	2791.3	1671.9	989.7
6260.0	82.5°	3804.4	4777.0	4903.4	5777.7	2546.2	1642.3	385.6	215.4
2447.8	85°	1489.3	2304.2	1943.6	2193.4	715.0	457.4	9.4	0.0
402.8	87.5°	167.0	266.9	245.1	193.6	87.4	18.7	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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