

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: P950343

Luminaire Tested: **GALN-SB4D-827-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950343
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-SB4D-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 27066 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

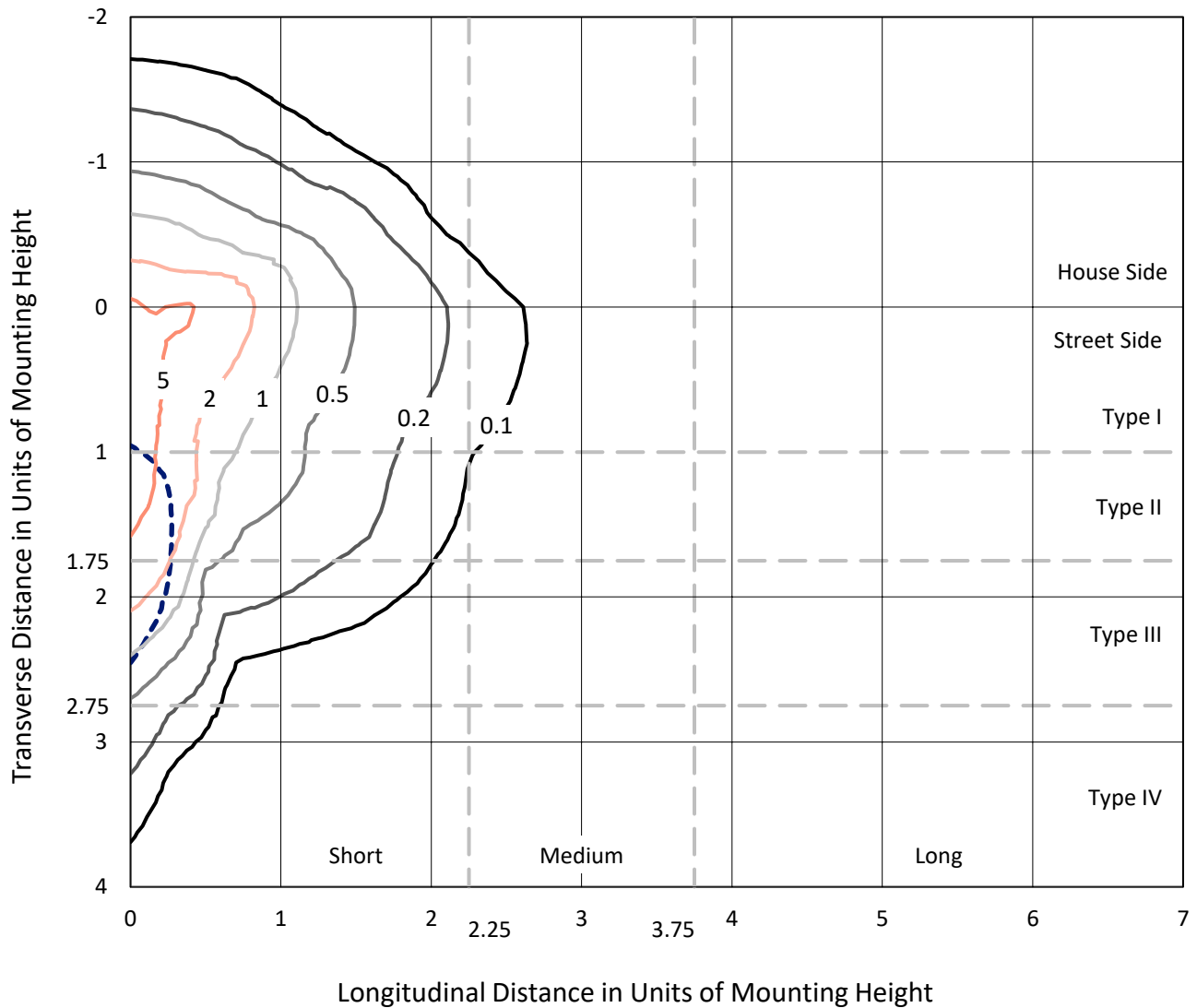
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

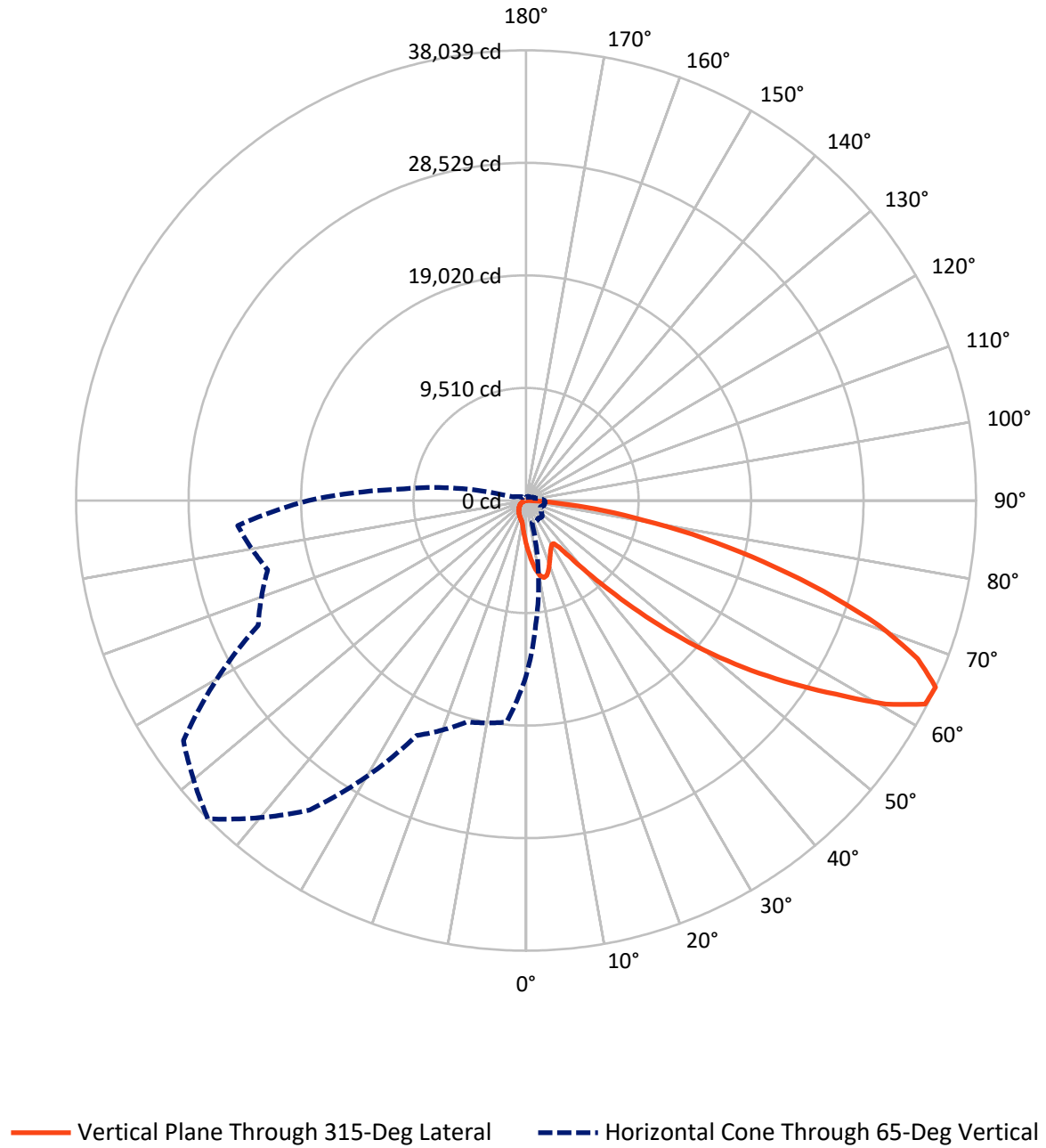
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	3790.4	0.0	3790.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	23275.6	0.0	23275.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	27066.0	0.0	27066.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.0	1.4
10°-20°	1106.1	4.1
20°-30°	1629.5	6.0
30°-40°	2093.5	7.7
40°-50°	3385.8	12.5
50°-60°	5937.3	21.9
60°-70°	7429.1	27.4
70°-80°	4341.2	16.0
80°-90°	774.5	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°	27066.0	100.0
0°-180°	27066.0	100.0

Coefficient of Utilization



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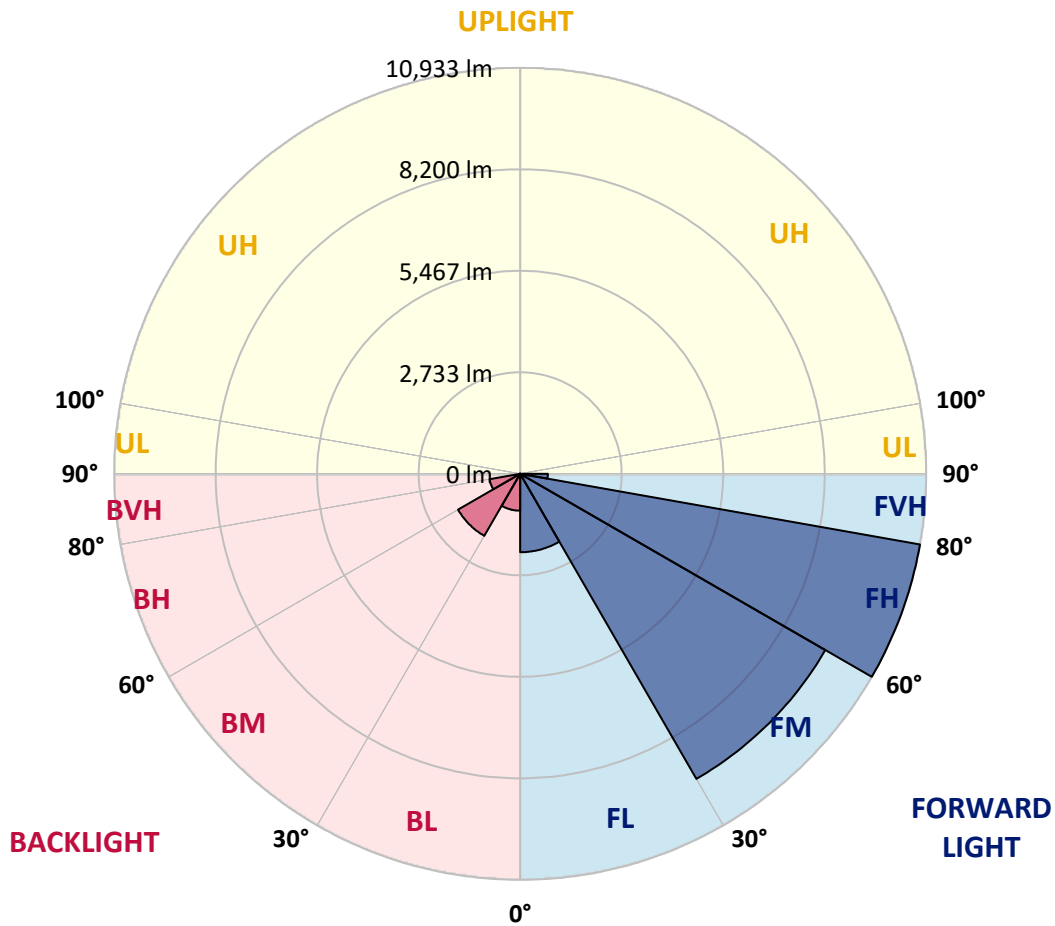
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2111.1	7.8			
FM (30°-60°)	9486.3	35.0			
FH (60°-80°)	10933.4	40.4			G4/12000
FVH (80°-90°)	744.8	2.8			G4/750
BL (0°-30°)	993.5	3.7	B2/1000		
BM (30°-60°)	1930.2	7.1	B2/2500		
BH (60°-80°)	836.9	3.1	B2/1000		G2/1000
BVH (80°-90°)	29.8	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°	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8
2.5°	4234.4	4161.7	4118.8	4012.5	3906.3	3820.5	3704.9	3628.4	3537.1	3449.4
5°	4719.2	4601.7	4460.0	4266.1	4089.0	3908.1	3732.9	3559.5	3376.7	3208.9
7.5°	5129.4	4959.7	4709.9	4452.6	4227.0	4008.8	3803.7	3574.4	3352.5	3089.6
10°	5442.7	5226.4	4898.2	4560.7	4301.6	4081.5	3882.0	3688.1	3464.4	3147.4
12.5°	5632.8	5401.6	5011.9	4616.7	4320.2	4074.1	3919.3	3833.5	3745.9	3430.8
15°	5772.7	5522.8	5092.1	4655.8	4277.3	3975.3	3861.5	3947.3	4048.0	3846.6
17.5°	5918.1	5655.2	5196.5	4672.6	4161.7	3783.2	3734.7	3956.6	4189.7	4180.4
20°	6056.1	5795.1	5287.9	4661.4	3975.3	3550.1	3593.0	3876.4	4146.8	4260.5
22.5°	6214.6	5938.6	5375.5	4618.5	3732.9	3332.0	3466.2	3749.6	3986.4	4120.7
25°	6408.5	6119.5	5498.6	4555.1	3471.8	3151.1	3337.6	3602.3	3794.4	3887.6
27.5°	6617.3	6335.8	5662.7	4521.6	3261.1	3022.5	3192.1	3427.1	3598.6	3663.9
30°	6876.5	6587.5	5856.6	4484.3	3123.1	2947.9	3041.1	3223.8	3391.6	3456.9
32.5°	7159.9	6867.2	6043.1	4394.8	3039.2	2891.9	2893.8	3009.4	3162.3	3240.6
35°	7514.2	7202.8	6242.6	4199.0	2972.1	2826.7	2750.2	2806.2	2933.0	3026.2
37.5°	8019.5	7642.9	6486.8	3919.3	2873.3	2726.0	2599.2	2612.3	2709.2	2811.8
40°	8716.8	8233.9	6774.0	3628.4	2731.6	2584.3	2433.3	2427.7	2498.5	2599.2
42.5°	9660.3	9015.2	7118.9	3350.6	2595.5	2412.7	2258.0	2248.7	2304.6	2392.2
45°	10905.8	10014.6	7542.2	3112.0	2489.2	2244.9	2092.0	2088.3	2134.9	2211.4
47.5°	12500.0	11403.7	7965.4	2949.7	2433.3	2112.6	1955.9	1963.4	2004.4	2073.4
50°	14564.1	13214.2	8094.1	2867.7	2433.3	2041.7	1834.7	1872.0	1905.6	1957.8
52.5°	17038.4	14951.9	7669.0	2793.1	2448.2	2051.0	1732.2	1812.4	1836.6	1881.3
55°	19331.8	15804.1	6593.1	2690.6	2451.9	2108.8	1644.5	1763.9	1808.6	1825.4
57.5°	20663.1	15511.3	5330.8	2517.2	2437.0	2148.0	1588.6	1704.2	1790.0	1801.2
60°	20409.5	14483.9	3924.9	2384.8	2327.0	2133.1	1571.8	1612.8	1749.0	1765.7
62.5°	18455.5	12761.1	2724.1	2282.2	2084.6	2067.8	1566.2	1469.3	1659.5	1700.5
65°	14834.5	10046.3	1924.2	1965.3	1827.3	1926.1	1536.4	1320.1	1551.3	1607.3
67.5°	10762.3	6798.2	1389.1	1592.3	1655.7	1696.8	1469.3	1212.0	1428.3	1502.8
70°	6906.3	3671.3	975.2	1051.6	1394.7	1441.3	1353.7	1115.0	1303.3	1389.1
72.5°	4909.4	2168.5	701.1	736.5	1120.6	1200.8	1191.5	1006.9	1157.9	1262.3
75°	3387.9	1195.2	473.6	525.8	813.0	975.2	919.2	865.2	980.8	1087.0
77.5°	2123.7	535.1	283.4	365.5	533.3	766.3	630.2	669.4	764.5	863.3
80°	1182.1	207.0	158.5	242.4	290.9	557.5	348.7	430.7	563.1	634.0
82.5°	257.3	26.1	70.9	104.4	113.7	324.4	184.6	249.9	354.3	348.7
85°	0.0	0.0	13.1	14.9	7.5	139.8	67.1	82.0	115.6	108.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7
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°
3747.8	0°	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8
3371.1	2.5°	3356.2	3264.9	3197.7	3164.2	3136.2	3162.3	3177.2	3177.2	3240.6	3277.9
3106.4	5°	3041.1	2877.0	2752.1	2668.2	2617.8	2634.6	2653.3	2673.8	2754.0	2808.0
2949.7	7.5°	2823.0	2571.2	2381.0	2263.6	2202.1	2211.4	2224.4	2241.2	2319.5	2373.6
2972.1	10°	2781.9	2420.2	2151.7	1996.9	1922.4	1909.3	1901.9	1896.3	1942.9	1983.9
3225.7	12.5°	2949.7	2427.7	2052.9	1864.6	1773.2	1734.0	1689.3	1653.9	1661.3	1687.4
3609.8	15°	3249.9	2522.8	2021.2	1795.6	1681.8	1616.6	1564.4	1521.5	1512.2	1521.5
3945.4	17.5°	3593.0	2651.4	2017.5	1735.9	1594.2	1527.1	1484.2	1445.0	1432.0	1433.9
4133.7	20°	3820.5	2754.0	2006.3	1668.8	1510.3	1450.6	1413.3	1374.2	1361.1	1364.9
4081.5	22.5°	3842.9	2808.0	1989.5	1594.2	1426.4	1376.0	1338.8	1303.3	1301.5	1301.5
3885.8	25°	3721.7	2808.0	1954.1	1527.1	1346.2	1301.5	1267.9	1225.0	1232.5	1236.2
3663.9	27.5°	3533.4	2740.9	1886.9	1473.0	1277.2	1230.6	1197.1	1157.9	1167.2	1172.8
3456.9	30°	3346.9	2655.1	1806.8	1411.5	1212.0	1157.9	1133.7	1100.1	1103.8	1111.3
3251.8	32.5°	3173.5	2563.8	1711.7	1361.1	1146.7	1092.6	1074.0	1036.7	1042.3	1049.7
3050.4	35°	3001.9	2463.1	1599.8	1301.5	1087.0	1033.0	1018.1	975.2	978.9	990.1
2849.1	37.5°	2817.4	2356.8	1508.4	1241.8	1029.2	973.3	958.4	913.6	917.4	930.4
2640.2	40°	2623.4	2252.4	1418.9	1178.4	967.7	911.8	898.7	850.2	854.0	868.9
2435.1	42.5°	2427.7	2138.7	1349.9	1096.4	904.3	844.6	831.6	786.8	792.4	809.2
2256.1	45°	2246.8	2002.5	1305.2	1005.0	844.6	777.5	764.5	723.5	734.6	753.3
2105.1	47.5°	2092.0	1862.7	1286.5	928.6	781.3	708.5	697.3	663.8	682.4	702.9
1976.4	50°	1959.7	1728.5	1262.3	850.2	721.6	648.9	637.7	615.3	639.5	660.1
1888.8	52.5°	1864.6	1575.6	1210.1	779.4	669.4	598.5	594.8	583.6	606.0	624.6
1823.5	55°	1782.5	1417.1	1126.2	717.9	622.8	555.6	559.4	553.8	572.4	587.3
1784.4	57.5°	1707.9	1279.1	1019.9	669.4	572.4	518.3	529.5	522.1	531.4	540.7
1743.4	60°	1618.4	1139.2	893.1	615.3	512.8	481.1	494.1	473.6	471.7	475.5
1668.8	62.5°	1486.1	950.9	760.7	548.2	460.5	440.0	445.6	406.5	376.6	376.6
1558.8	65°	1301.5	764.5	637.7	473.6	400.9	384.1	380.4	324.4	283.4	279.7
1439.4	67.5°	1087.0	628.4	529.5	399.0	333.8	322.6	326.3	285.3	244.3	240.5
1320.1	70°	885.7	520.2	427.0	318.8	257.3	268.5	285.3	244.3	205.1	199.5
1180.3	72.5°	719.7	413.9	333.8	244.3	190.2	221.9	242.4	199.5	162.2	158.5
1006.9	75°	555.6	303.9	238.7	165.9	138.0	171.5	190.2	145.4	115.6	110.0
779.4	77.5°	371.0	188.3	134.2	104.4	82.0	117.5	126.8	76.4	67.1	65.3
566.8	80°	225.6	87.6	57.8	50.3	28.0	42.9	50.3	31.7	35.4	37.3
302.1	82.5°	113.7	24.2	9.3	1.9	0.0	0.0	14.9	7.5	14.9	18.6
82.0	85°	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	9.3
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°
3747.8	0°	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8
3292.8	2.5°	3397.2	3475.5	3550.1	3669.5	3792.5	3913.7	4036.8	4156.1	4199.0	4230.7
2843.5	5°	3005.7	3153.0	3324.5	3561.3	3814.9	4075.9	4340.7	4583.1	4693.1	4767.7
2420.2	7.5°	2601.1	2793.1	3039.2	3395.4	3792.5	4208.3	4624.1	5006.4	5183.5	5327.1
2021.2	10°	2200.2	2409.0	2720.4	3126.9	3663.9	4260.5	4834.8	5360.6	5590.0	5770.8
1734.0	12.5°	1847.8	2043.6	2369.9	2819.2	3462.5	4219.5	4956.0	5588.1	5858.5	6061.7
1528.9	15°	1599.8	1737.8	2026.8	2511.6	3223.8	4087.1	4963.5	5696.2	5992.7	6205.3
1443.2	17.5°	1461.8	1508.4	1696.8	2198.3	2959.1	3913.7	4894.5	5733.5	6050.5	6248.2
1366.7	20°	1387.2	1394.7	1446.9	1791.8	2619.7	3751.5	4829.2	5770.8	6104.6	6270.5
1312.7	22.5°	1327.6	1327.6	1340.6	1465.5	2181.5	3557.6	4808.7	5836.1	6179.2	6281.7
1251.1	25°	1273.5	1273.5	1277.2	1310.8	1728.5	3261.1	4795.7	5936.8	6281.7	6309.7
1189.6	27.5°	1217.6	1219.4	1219.4	1238.1	1392.8	2858.4	4739.7	6067.3	6404.8	6347.0
1129.9	30°	1161.6	1165.4	1165.4	1178.4	1232.5	2386.6	4629.7	6223.9	6565.1	6395.5
1070.3	32.5°	1105.7	1109.4	1109.4	1120.6	1159.8	1905.6	4491.7	6367.5	6727.3	6416.0
1012.5	35°	1047.9	1053.5	1049.7	1064.7	1105.7	1515.9	4316.5	6511.1	6902.6	6481.2
956.5	37.5°	990.1	993.8	991.9	1006.9	1053.5	1308.9	4113.2	6619.2	7141.3	6626.7
896.9	40°	932.3	930.4	930.4	947.2	997.5	1249.3	3857.8	6790.7	7484.4	6882.1
837.2	42.5°	872.6	872.6	868.9	887.5	949.1	1204.5	3613.5	7098.4	7984.1	7288.6
781.3	45°	818.5	816.7	809.2	826.0	902.4	1126.2	3527.8	7672.7	8722.4	7946.8
725.3	47.5°	766.3	764.5	745.8	760.7	846.5	1055.3	3848.5	8612.4	9746.1	8914.5
680.6	50°	719.7	721.6	686.2	699.2	790.6	1001.3	4543.9	9831.8	11105.3	10217.8
643.3	52.5°	676.8	676.8	630.2	637.7	721.6	952.8	5205.9	11153.8	12899.1	12035.8
604.1	55°	634.0	630.2	578.0	581.7	652.6	883.8	5304.7	12444.1	15345.4	14771.1
561.2	57.5°	585.5	578.0	529.5	529.5	589.2	833.5	4598.0	13436.1	18380.9	18791.1
481.1	60°	525.8	520.2	488.5	479.2	538.9	878.2	3244.3	13551.7	20338.7	24136.8
382.2	62.5°	449.4	456.8	440.0	427.0	490.4	911.8	1922.4	12621.2	19865.1	25837.3
296.5	65°	354.3	384.1	380.4	371.0	538.9	768.2	1135.5	10835.0	18412.6	24465.0
259.2	67.5°	302.1	322.6	317.0	317.0	565.0	583.6	714.1	8465.1	16413.8	22837.2
216.3	70°	257.3	277.8	257.3	257.3	427.0	354.3	494.1	5910.7	14256.5	21036.0
173.4	72.5°	212.6	233.1	210.7	195.8	341.2	264.8	361.7	3693.7	12209.2	19160.3
123.1	75°	162.2	186.5	169.7	151.0	225.6	197.6	274.1	2146.1	10115.3	16393.3
74.6	77.5°	102.6	134.2	126.8	106.3	165.9	143.6	197.6	1277.2	7805.1	12809.6
44.7	80°	63.4	69.0	70.9	67.1	95.1	97.0	134.2	727.2	5342.0	8927.5
28.0	82.5°	41.0	41.0	31.7	35.4	46.6	55.9	76.4	274.1	3139.9	5435.2
16.8	85°	29.8	26.1	16.8	16.8	22.4	28.0	29.8	83.9	1273.5	2146.1
7.5	87.5°	14.9	13.1	5.6	7.5	11.2	9.3	7.5	3.7	320.7	686.2
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°
3747.8	0°	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8
4301.6	2.5°	4338.8	4396.6	4400.4	4400.4	4350.0	4348.2	4245.6	4234.4
4935.5	5°	5108.9	5146.2	5155.5	5136.9	5036.2	4961.6	4762.1	4719.2
5582.5	7.5°	5813.7	5888.3	5888.3	5843.5	5679.5	5526.6	5237.6	5129.4
6117.6	10°	6376.8	6462.6	6443.9	6352.6	6145.6	5934.9	5584.4	5442.7
6442.1	12.5°	6650.9	6738.5	6690.1	6585.6	6384.3	6162.4	5793.2	5632.8
6535.3	15°	6645.3	6621.1	6570.7	6557.7	6460.7	6292.9	5948.0	5772.7
6477.5	17.5°	6408.5	6203.4	6164.3	6294.8	6417.8	6376.8	6082.2	5918.1
6339.5	20°	6033.7	5675.7	5640.3	5890.2	6240.7	6419.7	6207.1	6056.1
6140.0	22.5°	5638.4	5252.5	5170.4	5446.4	5974.1	6432.7	6365.6	6214.6
5920.0	25°	5263.7	4875.8	4793.8	5051.1	5677.6	6410.4	6537.2	6408.5
5709.3	27.5°	4950.4	4575.6	4499.2	4756.5	5392.3	6347.0	6708.7	6617.3
5500.5	30°	4708.0	4361.2	4305.3	4553.3	5146.2	6268.7	6926.9	6876.5
5306.6	32.5°	4566.3	4312.7	4333.2	4536.5	5013.8	6182.9	7135.7	7159.9
5211.5	35°	4706.2	4717.3	4896.3	4980.3	5136.9	6169.8	7419.1	7514.2
5325.2	37.5°	5401.6	5789.5	6160.5	6091.5	5739.1	6320.9	7842.4	8019.5
5821.2	40°	6585.6	7381.8	7984.1	7721.2	6833.6	6783.3	8452.1	8716.8
6701.2	42.5°	8032.5	9382.5	10374.4	9669.6	8245.1	7592.5	9322.8	9660.3
7765.9	45°	9559.6	11849.3	13411.8	11946.3	9749.8	8726.2	10641.1	10905.8
8763.5	47.5°	11168.7	14847.5	16868.7	14470.9	11144.5	10016.4	12438.5	12500.0
9708.8	50°	12928.9	18134.8	20392.7	16993.6	12490.7	11495.0	14635.0	14564.1
10810.7	52.5°	14605.1	21515.2	23842.2	19527.6	13672.9	13329.8	17183.8	17038.4
12317.3	55°	16204.9	24893.8	27312.1	21962.7	14787.9	15753.7	20211.9	19331.8
14489.5	57.5°	18060.2	27931.2	30888.4	24409.0	16346.6	18901.1	23597.9	20663.1
18649.4	60°	20802.9	31382.5	34932.6	27761.5	19311.3	22208.8	24811.8	20409.5
23631.5	62.5°	24304.6	34556.0	37873.0	31046.9	22289.0	22831.6	23023.6	18455.5
22615.3	65°	24985.2	35359.6	38039.0	31925.1	21904.9	19367.2	18796.7	14834.5
20200.7	67.5°	23180.3	33907.1	35719.5	30289.9	19376.6	14966.9	14105.4	10762.3
18615.8	70°	21155.4	31138.2	31677.1	27509.8	17042.1	11008.4	9526.1	6906.3
17530.6	72.5°	19080.1	27444.5	26329.5	23890.7	14978.0	8015.8	6870.9	4909.4
15984.9	75°	16615.1	22587.3	20739.6	19850.2	12401.2	6291.0	4970.9	3387.9
13749.3	77.5°	13305.5	15899.1	15405.0	15386.4	9319.1	4596.2	3317.1	2123.7
10741.8	80°	9386.2	10318.5	10066.8	11588.3	6251.9	3333.8	1996.9	1182.1
7476.9	82.5°	4543.9	5705.6	5856.6	6900.8	3041.1	1961.5	460.5	257.3
2923.6	85°	1778.8	2752.1	2321.4	2619.7	854.0	546.3	11.2	0.0
481.1	87.5°	199.5	318.8	292.7	231.2	104.4	22.4	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)