

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: P955614

Luminaire Tested: **GALN-SB8C-735-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955614
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-SB8C-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 615mA 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: 46217 lumens
Efficiency: N/A
Efficacy: 115.6 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

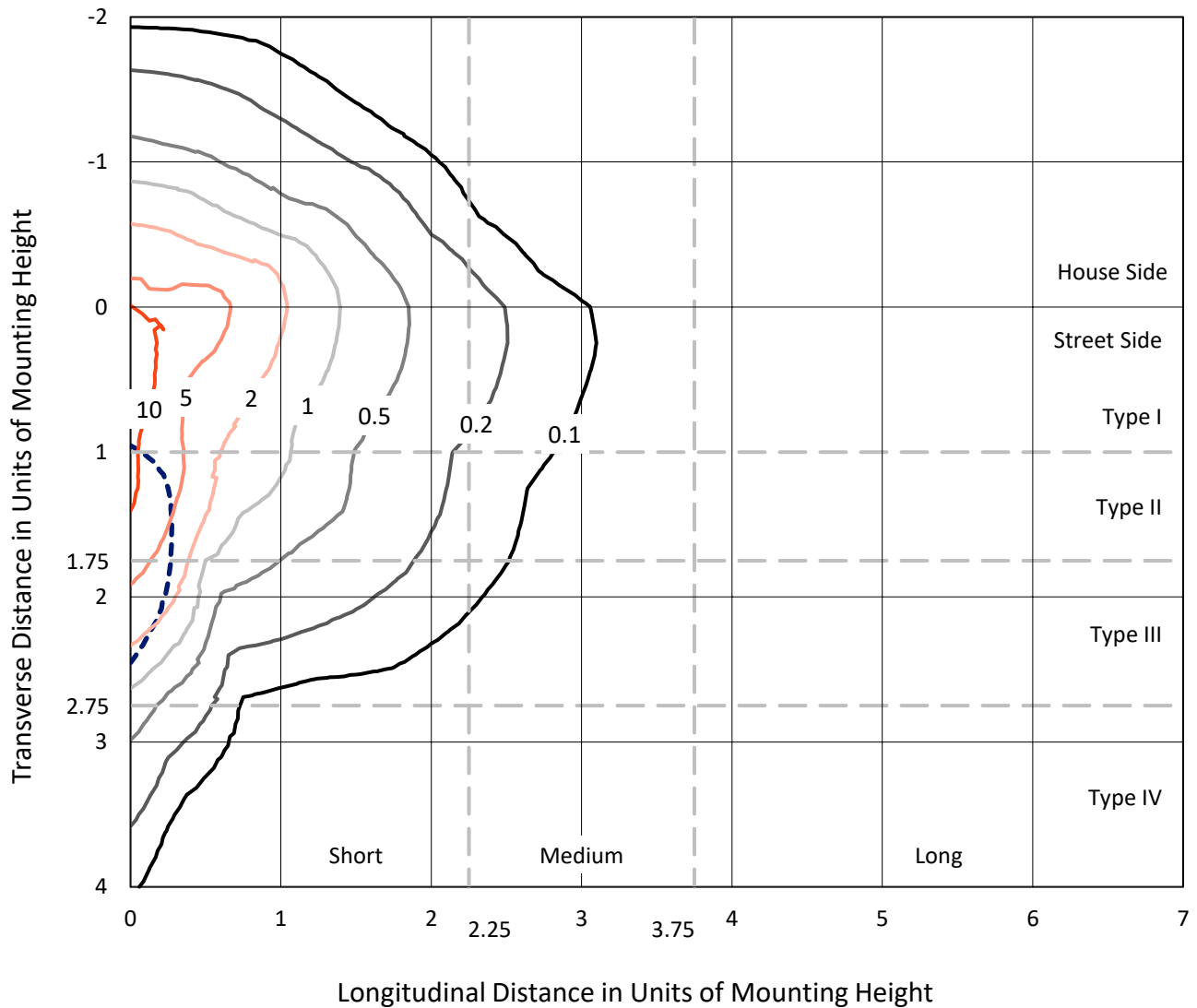
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

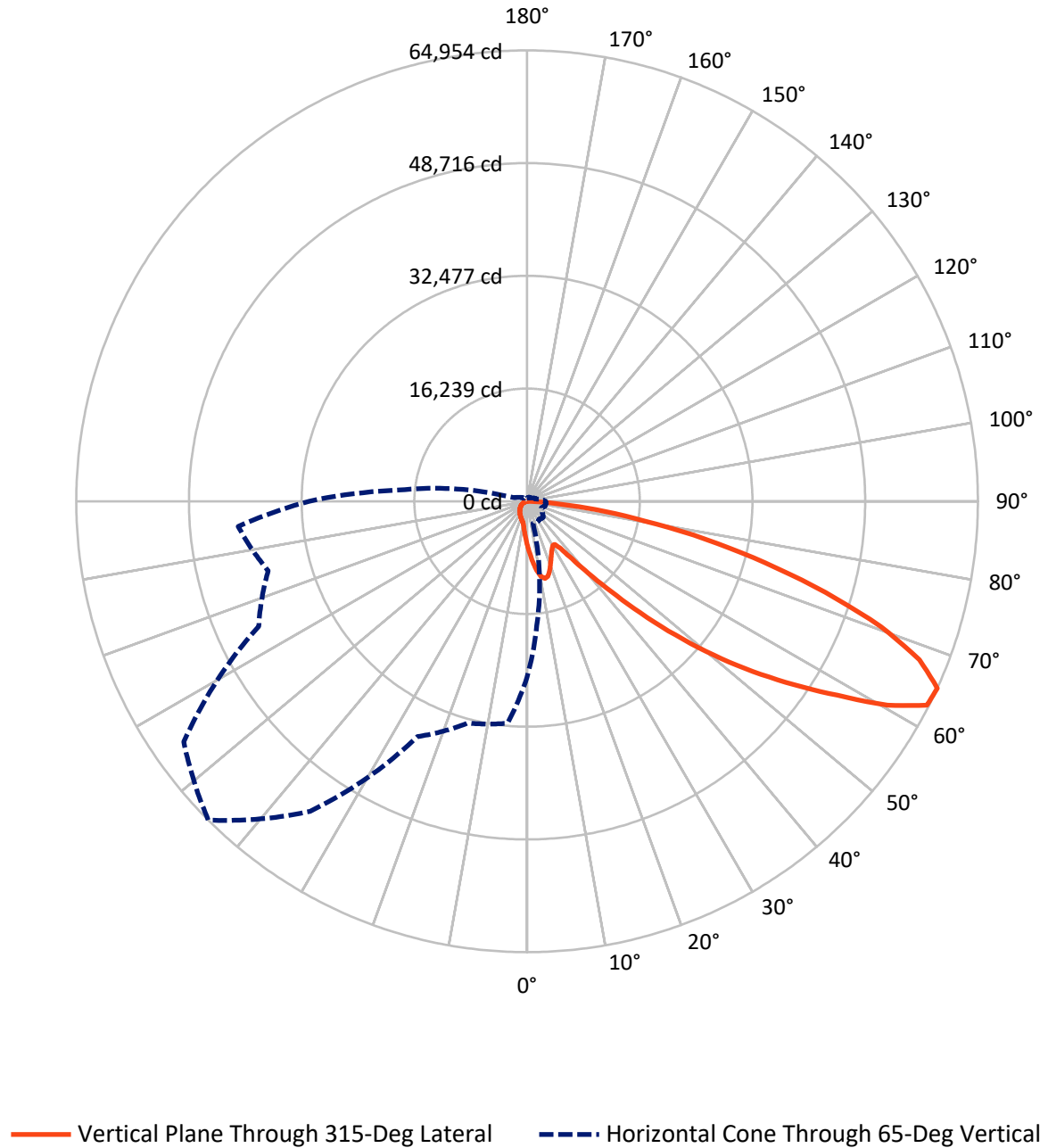
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 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	6472.3	0.0	6472.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	39744.7	0.0	39744.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	46217.0	0.0	46217.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	630.1	1.4
10°-20°	1888.7	4.1
20°-30°	2782.5	6.0
30°-40°	3574.7	7.7
40°-50°	5781.4	12.5
50°-60°	10138.3	21.9
60°-70°	12685.7	27.4
70°-80°	7413.0	16.0
80°-90°	1322.6	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°	46217.0	100.0
0°-180°	46217.0	100.0

Coefficient of Utilization



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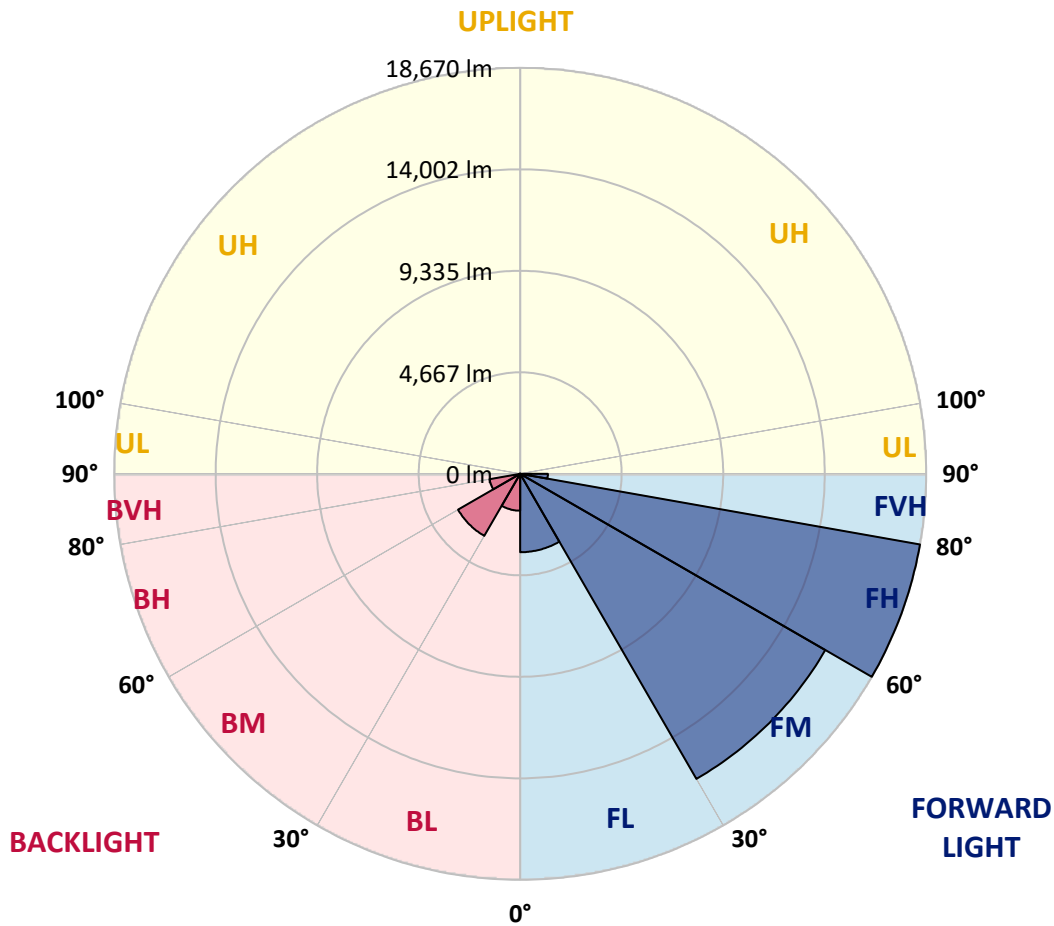
CATALOG NUMBER: GALN-SB8C-735-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3604.8	7.8			
FM (30°-60°)	16198.5	35.0			
FH (60°-80°)	18669.6	40.4			G5
FVH (80°-90°)	1271.8	2.8			G5
BL (0°-30°)	1696.5	3.7	B3/2500		
BM (30°-60°)	3295.9	7.1	B3/5000		
BH (60°-80°)	1429.1	3.1	B3/2500		G3/2500
BVH (80°-90°)	50.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6
2.5°	7230.6	7106.4	7033.2	6851.7	6670.2	6523.7	6326.3	6195.8	6039.8	5890.2
5°	8058.4	7857.8	7615.8	7284.7	6982.2	6673.4	6374.1	6078.0	5766.0	5479.4
7.5°	8758.8	8469.1	8042.5	7603.1	7217.8	6845.3	6495.1	6103.5	5724.6	5275.7
10°	9293.7	8924.4	8364.0	7787.7	7345.2	6969.5	6628.8	6297.7	5915.6	5374.4
12.5°	9618.5	9223.7	8558.2	7883.3	7377.0	6956.8	6692.5	6546.0	6396.4	5858.3
15°	9857.3	9430.6	8695.1	7950.1	7303.8	6788.0	6593.8	6740.2	6912.2	6568.3
17.5°	10105.6	9656.7	8873.4	7978.8	7106.4	6460.1	6377.3	6756.2	7154.2	7138.2
20°	10341.2	9895.5	9029.5	7959.7	6788.0	6062.1	6135.3	6619.3	7080.9	7275.1
22.5°	10611.8	10140.6	9179.1	7886.4	6374.1	5689.6	5918.8	6402.8	6807.1	7036.3
25°	10943.0	10449.5	9389.2	7778.2	5928.4	5380.7	5699.1	6151.2	6479.2	6638.4
27.5°	11299.5	10818.8	9669.4	7720.9	5568.6	5161.1	5450.8	5852.0	6144.9	6256.3
30°	11742.1	11248.6	10000.5	7657.2	5333.0	5033.7	5192.9	5504.9	5791.5	5902.9
32.5°	12226.1	11726.2	10318.9	7504.4	5189.7	4938.2	4941.4	5138.8	5399.8	5533.6
35°	12831.0	12299.3	10659.6	7170.1	5075.1	4826.7	4696.2	4791.7	5008.2	5167.4
37.5°	13693.8	13050.7	11076.7	6692.5	4906.3	4654.8	4438.3	4460.6	4626.2	4801.3
40°	14884.6	14060.0	11567.0	6195.8	4664.4	4412.8	4154.9	4145.4	4266.4	4438.3
42.5°	16495.6	15394.0	12156.0	5721.4	4431.9	4119.9	3855.7	3839.7	3935.3	4084.9
45°	18622.4	17100.6	12878.7	5313.9	4250.5	3833.4	3572.3	3565.9	3645.5	3776.1
47.5°	21344.7	19472.5	13601.5	5036.9	4154.9	3607.3	3339.9	3352.6	3422.7	3540.5
50°	24869.2	22564.1	13821.2	4896.8	4154.9	3486.3	3132.9	3196.6	3253.9	3343.1
52.5°	29094.2	25531.4	13095.3	4769.4	4180.4	3502.3	2957.8	3094.7	3136.1	3212.5
55°	33010.3	26986.5	11258.2	4594.3	4186.8	3601.0	2808.2	3011.9	3088.4	3117.0
57.5°	35283.6	26486.6	9102.7	4298.2	4161.3	3667.8	2712.7	2910.1	3056.5	3075.6
60°	34850.6	24732.3	6702.0	4072.2	3973.5	3642.3	2684.0	2754.0	2986.5	3015.1
62.5°	31513.9	21790.4	4651.6	3897.1	3559.6	3530.9	2674.4	2508.9	2833.6	2903.7
65°	25330.9	17154.7	3285.8	3355.8	3120.2	3288.9	2623.5	2254.2	2649.0	2744.5
67.5°	18377.3	11608.4	2372.0	2719.0	2827.3	2897.3	2508.9	2069.5	2438.8	2566.2
70°	11793.0	6269.0	1665.2	1795.7	2381.5	2461.1	2311.5	1904.0	2225.5	2372.0
72.5°	8383.1	3702.8	1197.1	1257.6	1913.5	2050.4	2034.5	1719.3	1977.2	2155.5
75°	5785.1	2040.9	808.7	897.9	1388.2	1665.2	1569.6	1477.3	1674.7	1856.2
77.5°	3626.4	913.8	483.9	624.0	910.6	1308.6	1076.1	1143.0	1305.4	1474.1
80°	2018.6	353.4	270.6	413.9	496.7	952.0	595.4	735.5	961.5	1082.5
82.5°	439.4	44.6	121.0	178.3	194.2	554.0	315.2	426.6	604.9	595.4
85°	0.0	0.0	22.3	25.5	12.7	238.8	114.6	140.1	197.4	184.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4
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°
6399.6	0°	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6
5756.4	2.5°	5731.0	5575.0	5460.3	5403.0	5355.3	5399.8	5425.3	5425.3	5533.6	5597.2
5304.3	5°	5192.9	4912.7	4699.4	4556.1	4470.2	4498.8	4530.6	4565.7	4702.6	4794.9
5036.9	7.5°	4820.4	4390.6	4065.8	3865.2	3760.1	3776.1	3798.4	3827.0	3960.7	4053.1
5075.1	10°	4750.3	4132.7	3674.2	3409.9	3282.6	3260.3	3247.5	3238.0	3317.6	3387.6
5508.1	12.5°	5036.9	4145.4	3505.4	3183.9	3027.9	2961.0	2884.6	2824.1	2836.8	2881.4
6164.0	15°	5549.5	4307.8	3451.3	3066.1	2871.8	2760.4	2671.3	2598.0	2582.1	2598.0
6737.1	17.5°	6135.3	4527.5	3444.9	2964.2	2722.2	2607.6	2534.4	2467.5	2445.2	2448.4
7058.6	20°	6523.7	4702.6	3425.8	2849.6	2578.9	2477.0	2413.4	2346.5	2324.2	2330.6
6969.5	22.5°	6562.0	4794.9	3397.2	2722.2	2435.7	2349.7	2286.0	2225.5	2222.3	2222.3
6635.2	25°	6355.0	4794.9	3336.7	2607.6	2298.8	2222.3	2165.0	2091.8	2104.5	2110.9
6256.3	27.5°	6033.4	4680.3	3222.1	2515.3	2180.9	2101.4	2044.0	1977.2	1993.1	2002.7
5902.9	30°	5715.0	4533.8	3085.2	2410.2	2069.5	1977.2	1935.8	1878.5	1884.9	1897.6
5552.7	32.5°	5418.9	4377.8	2922.8	2324.2	1958.1	1865.7	1833.9	1770.2	1779.8	1792.5
5208.8	35°	5126.0	4205.9	2731.8	2222.3	1856.2	1763.9	1738.4	1665.2	1671.5	1690.6
4865.0	37.5°	4810.8	4024.4	2575.7	2120.5	1757.5	1662.0	1636.5	1560.1	1566.5	1588.8
4508.4	40°	4479.7	3846.1	2422.9	2012.2	1652.4	1556.9	1534.6	1451.8	1458.2	1483.7
4158.1	42.5°	4145.4	3651.9	2305.1	1872.1	1544.2	1442.3	1420.0	1343.6	1353.1	1381.8
3852.5	45°	3836.6	3419.5	2228.7	1716.1	1442.3	1327.7	1305.4	1235.3	1254.4	1286.3
3594.6	47.5°	3572.3	3180.7	2196.9	1585.6	1334.0	1209.9	1190.8	1133.5	1165.3	1200.3
3374.9	50°	3346.2	2951.4	2155.5	1451.8	1232.2	1108.0	1088.9	1050.7	1092.1	1127.1
3225.3	52.5°	3183.9	2690.4	2066.3	1330.9	1143.0	1022.0	1015.7	996.6	1034.8	1066.6
3113.8	55°	3043.8	2419.7	1923.1	1225.8	1063.4	948.8	955.2	945.6	977.4	1002.9
3047.0	57.5°	2916.4	2184.1	1741.6	1143.0	977.4	885.1	904.2	891.5	907.4	923.3
2976.9	60°	2763.6	1945.3	1525.1	1050.7	875.6	821.4	843.7	808.7	805.5	811.9
2849.6	62.5°	2537.5	1623.8	1299.0	936.1	786.4	751.4	760.9	694.1	643.1	643.1
2661.7	65°	2222.3	1305.4	1088.9	808.7	684.5	655.9	649.5	554.0	483.9	477.6
2457.9	67.5°	1856.2	1073.0	904.2	681.3	569.9	550.8	557.2	487.1	417.1	410.7
2254.2	70°	1512.3	888.3	729.1	544.4	439.4	458.5	487.1	417.1	350.2	340.7
2015.4	72.5°	1229.0	706.8	569.9	417.1	324.8	378.9	413.9	340.7	277.0	270.6
1719.3	75°	948.8	519.0	407.5	283.4	235.6	292.9	324.8	248.3	197.4	187.8
1330.9	77.5°	633.6	321.6	229.2	178.3	140.1	200.6	216.5	130.5	114.6	111.4
967.9	80°	385.2	149.6	98.7	86.0	47.8	73.2	86.0	54.1	60.5	63.7
515.8	82.5°	194.2	41.4	15.9	3.2	0.0	0.0	25.5	12.7	25.5	31.8
140.1	85°	15.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	15.9
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°
6399.6	0°	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6
5622.7	2.5°	5801.0	5934.7	6062.1	6265.9	6476.0	6682.9	6893.1	7096.8	7170.1	7224.2
4855.4	5°	5132.4	5383.9	5676.8	6081.2	6514.2	6959.9	7412.0	7825.9	8013.8	8141.2
4132.7	7.5°	4441.5	4769.4	5189.7	5797.8	6476.0	7186.0	7896.0	8548.7	8851.2	9096.3
3451.3	10°	3757.0	4113.6	4645.3	5339.3	6256.3	7275.1	8255.8	9153.6	9545.2	9854.1
2961.0	12.5°	3155.2	3489.5	4046.7	4814.0	5912.4	7205.1	8462.7	9542.1	10003.7	10350.8
2610.8	15°	2731.8	2967.4	3460.9	4288.7	5504.9	6979.0	8475.5	9726.7	10233.0	10595.9
2464.3	17.5°	2496.2	2575.7	2897.3	3753.8	5052.8	6682.9	8357.7	9790.4	10331.7	10669.1
2333.8	20°	2368.8	2381.5	2470.7	3059.7	4473.3	6405.9	8246.2	9854.1	10424.0	10707.3
2241.4	22.5°	2266.9	2266.9	2289.2	2502.5	3725.1	6074.8	8211.2	9965.5	10551.3	10726.5
2136.4	25°	2174.6	2174.6	2180.9	2238.3	2951.4	5568.6	8188.9	10137.4	10726.5	10774.2
2031.3	27.5°	2079.1	2082.2	2082.2	2114.1	2378.3	4880.9	8093.4	10360.3	10936.6	10837.9
1929.4	30°	1983.6	1989.9	1989.9	2012.2	2104.5	4075.4	7905.5	10627.8	11210.4	10920.7
1827.5	32.5°	1888.0	1894.4	1894.4	1913.5	1980.4	3253.9	7669.9	10872.9	11487.4	10955.7
1728.8	35°	1789.3	1798.9	1792.5	1818.0	1888.0	2588.5	7370.7	11118.1	11786.7	11067.1
1633.3	37.5°	1690.6	1697.0	1693.8	1719.3	1798.9	2235.1	7023.6	11302.7	12194.2	11315.5
1531.4	40°	1591.9	1588.8	1588.8	1617.4	1703.4	2133.2	6587.4	11595.6	12780.0	11751.7
1429.6	42.5°	1490.1	1490.1	1483.7	1515.5	1620.6	2056.8	6170.3	12121.0	13633.3	12445.7
1334.0	45°	1397.7	1394.5	1381.8	1410.5	1541.0	1923.1	6023.9	13101.6	14894.1	13569.6
1238.5	47.5°	1308.6	1305.4	1273.5	1299.0	1445.5	1802.1	6571.5	14706.3	16642.1	15222.1
1162.1	50°	1229.0	1232.2	1171.7	1194.0	1350.0	1709.7	7759.1	16788.5	18963.1	17447.6
1098.4	52.5°	1155.7	1155.7	1076.1	1088.9	1232.2	1627.0	8889.4	19045.9	22026.0	20551.9
1031.6	55°	1082.5	1076.1	987.0	993.4	1114.4	1509.2	9058.1	21249.1	26203.2	25222.6
958.3	57.5°	999.7	987.0	904.2	904.2	1006.1	1423.2	7851.4	22943.0	31386.6	32087.0
821.4	60°	897.9	888.3	834.2	818.3	920.1	1499.6	5539.9	23140.4	34729.6	41215.2
652.7	62.5°	767.3	780.0	751.4	729.1	837.4	1556.9	3282.6	21551.6	33920.9	44118.9
506.2	65°	604.9	655.9	649.5	633.6	920.1	1311.8	1939.0	18501.5	31440.7	41775.5
442.6	67.5°	515.8	550.8	541.3	541.3	964.7	996.6	1219.4	14454.8	28027.6	38996.0
369.3	70°	439.4	474.4	439.4	439.4	729.1	604.9	843.7	10092.9	24343.9	35920.4
296.1	72.5°	363.0	398.0	359.8	334.3	582.6	452.1	617.7	6307.2	20848.0	32717.4
210.1	75°	277.0	318.4	289.7	257.9	385.2	337.5	468.0	3664.6	17272.5	27992.6
127.4	77.5°	175.1	229.2	216.5	181.5	283.4	245.2	337.5	2180.9	13327.7	21873.2
76.4	80°	108.3	117.8	121.0	114.6	162.4	165.6	229.2	1241.7	9121.8	15244.4
47.8	82.5°	70.0	70.0	54.1	60.5	79.6	95.5	130.5	468.0	5361.6	9281.0
28.7	85°	50.9	44.6	28.7	28.7	38.2	47.8	50.9	143.3	2174.6	3664.6
12.7	87.5°	25.5	22.3	9.6	12.7	19.1	15.9	12.7	6.4	547.6	1171.7
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°
6399.6	0°	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6	6399.6
7345.2	2.5°	7408.9	7507.6	7513.9	7513.9	7428.0	7424.8	7249.7	7230.6
8427.7	5°	8723.8	8787.5	8803.4	8771.6	8599.6	8472.3	8131.6	8058.4
9532.5	7.5°	9927.3	10054.7	10054.7	9978.2	9698.1	9437.0	8943.5	8758.8
10446.3	10°	10888.8	11035.3	11003.4	10847.4	10494.0	10134.3	9535.7	9293.7
11000.3	12.5°	11356.9	11506.5	11423.7	11245.4	10901.6	10522.7	9892.3	9618.5
11159.5	15°	11347.3	11305.9	11220.0	11197.7	11032.1	10745.6	10156.5	9857.3
11060.8	17.5°	10943.0	10592.7	10525.9	10748.7	10958.9	10888.8	10385.8	10105.6
10825.2	20°	10303.0	9691.7	9631.2	10057.8	10656.4	10962.1	10599.1	10341.2
10484.5	22.5°	9628.0	8969.0	8828.9	9300.1	10201.1	10984.3	10869.7	10611.8
10108.8	25°	8988.1	8325.8	8185.7	8625.1	9694.9	10946.1	11162.6	10943.0
9749.0	27.5°	8453.2	7813.2	7682.7	8122.0	9207.7	10837.9	11455.6	11299.5
9392.4	30°	8039.3	7447.1	7351.6	7775.0	8787.5	10704.2	11828.1	11742.1
9061.3	32.5°	7797.3	7364.3	7399.3	7746.4	8561.4	10557.7	12184.7	12226.1
8898.9	35°	8036.1	8055.2	8360.8	8504.1	8771.6	10535.4	12668.6	12831.0
9093.1	37.5°	9223.7	9885.9	10519.5	10401.7	9799.9	10793.3	13391.4	13693.8
9940.0	40°	11245.4	12604.9	13633.3	13184.4	11668.9	11582.9	14432.5	14884.6
11442.8	42.5°	13716.1	16021.2	17715.0	16511.5	14079.1	12964.7	15919.3	16495.6
13260.8	45°	16323.7	20233.5	22901.6	20399.0	16648.4	14900.5	18170.3	18622.4
14964.2	47.5°	19071.4	25353.1	28804.5	24710.0	19030.0	17103.7	21239.6	21344.7
16578.4	50°	22076.9	30966.3	34822.0	29017.8	21328.7	19628.5	24990.2	24869.2
18460.1	52.5°	24939.2	36738.7	40712.1	33344.7	23347.3	22761.5	29342.5	29094.2
21032.6	55°	27671.0	42507.8	46637.3	37502.8	25251.3	26900.5	34513.1	33010.3
24741.8	57.5°	30839.0	47694.3	52744.0	41680.0	27913.0	32274.9	40295.0	35283.6
31845.1	60°	35522.4	53587.7	59649.8	47404.6	32975.3	37923.1	42367.7	34850.6
40352.3	62.5°	41501.7	59006.6	64670.7	53014.6	38060.0	38986.5	39314.4	31513.9
38617.1	65°	42663.8	60378.9	64954.1	54514.2	37404.1	33070.8	32096.6	25330.9
34494.0	67.5°	39581.9	57898.6	60993.4	51721.9	33086.8	25556.9	24086.0	18377.3
31787.7	70°	36124.2	53170.6	54090.7	46974.8	29100.6	18797.6	16266.4	11793.0
29934.7	72.5°	32580.5	46863.4	44959.4	40794.9	25576.0	13687.5	11732.6	8383.1
27295.3	75°	28371.5	38569.4	35414.2	33895.5	21175.9	10742.4	8488.2	5785.1
23477.8	77.5°	22720.1	27148.8	26305.1	26273.3	15913.0	7848.2	5664.1	3626.4
18342.3	80°	16027.6	17619.5	17189.7	19787.7	10675.5	5692.8	3409.9	2018.6
12767.3	82.5°	7759.1	9742.6	10000.5	11783.5	5192.9	3349.4	786.4	439.4
4992.3	85°	3037.4	4699.4	3963.9	4473.3	1458.2	932.9	19.1	0.0
821.4	87.5°	340.7	544.4	499.9	394.8	178.3	38.2	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)