

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: P955782

Luminaire Tested: **GALN-SB8C-850-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955782
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-850-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 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: 44208 lumens
Efficiency: N/A
Efficacy: 110.6 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

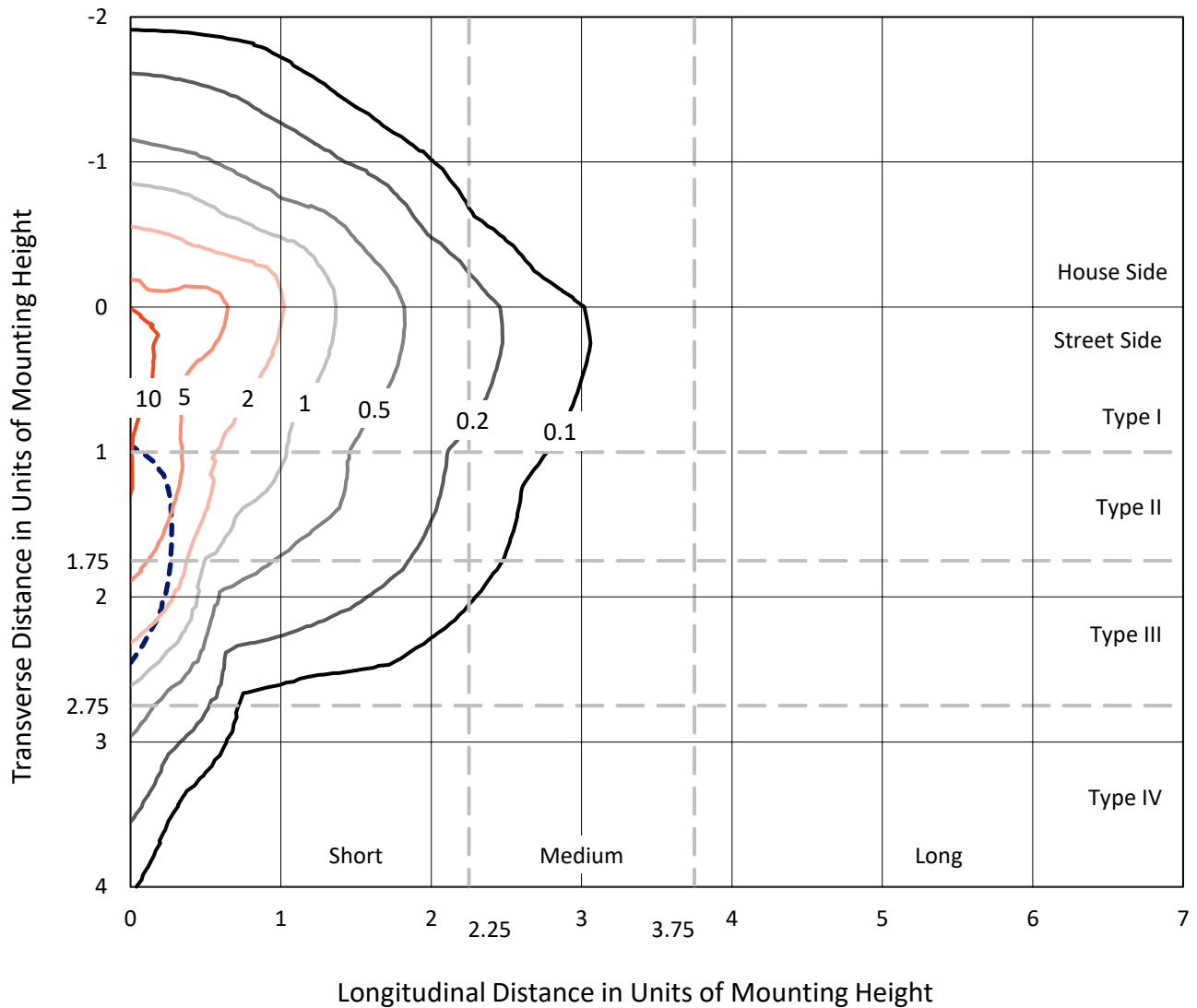
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

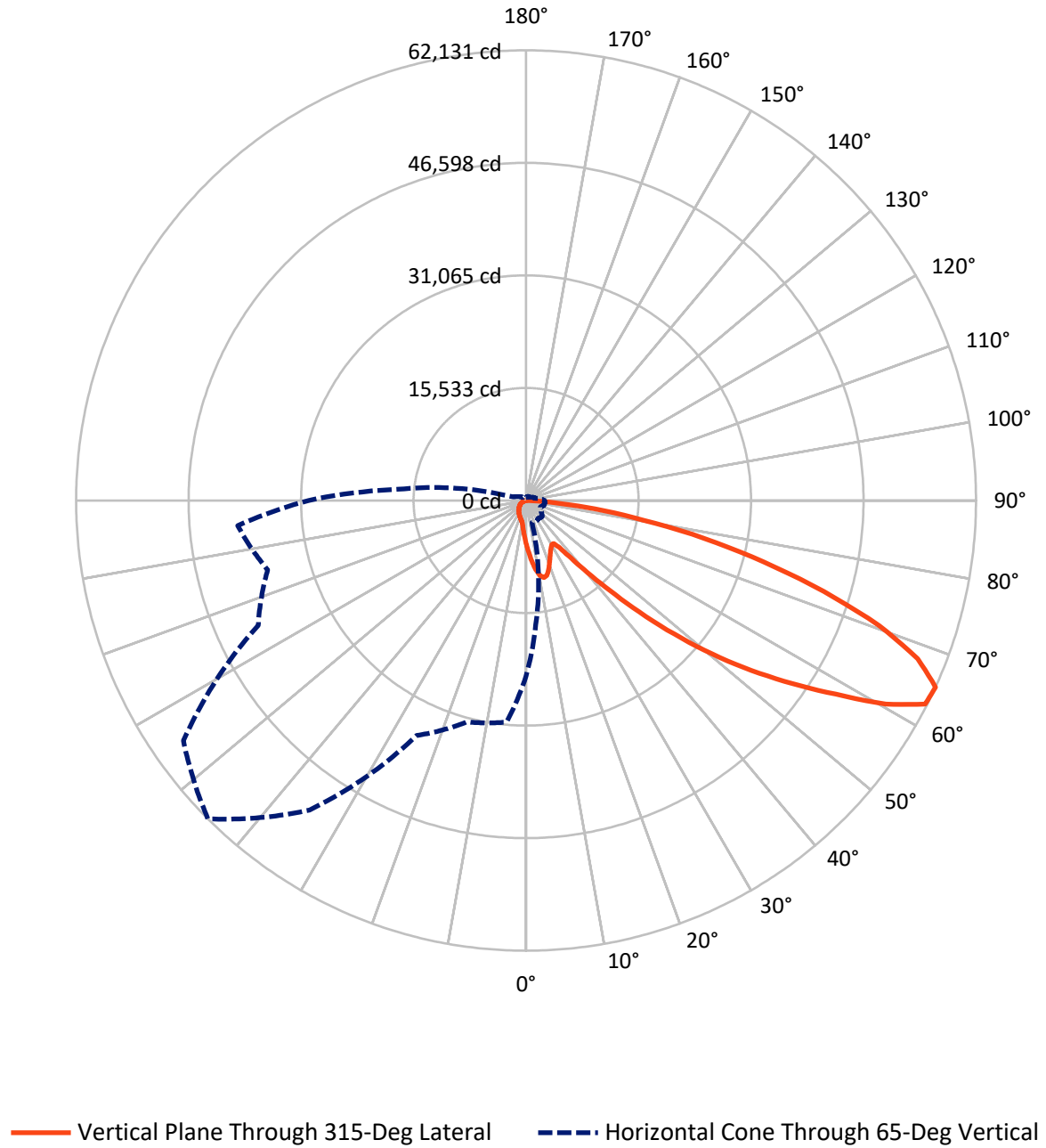
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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	6191.0	0.0	6191.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	38017.0	0.0	38017.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	44208.0	0.0	44208.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	602.7	1.4
10°-20°	1806.6	4.1
20°-30°	2661.5	6.0
30°-40°	3419.4	7.7
40°-50°	5530.1	12.5
50°-60°	9697.6	21.9
60°-70°	12134.3	27.4
70°-80°	7090.7	16.0
80°-90°	1265.1	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°	44208.0	100.0
0°-180°	44208.0	100.0

Coefficient of Utilization



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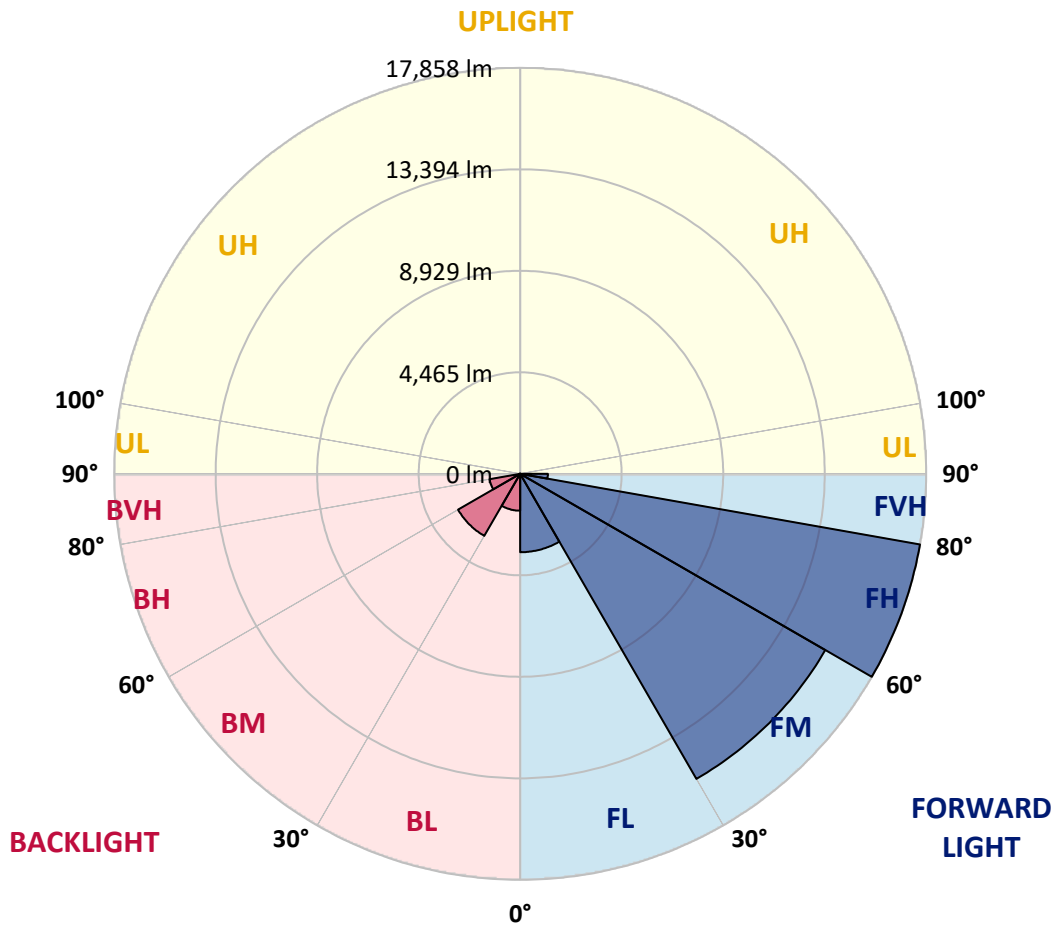
CATALOG NUMBER: GALN-SB8C-850-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3448.1	7.8			
FM (30°-60°)	15494.4	35.0			
FH (60°-80°)	17858.0	40.4			G5
FVH (80°-90°)	1216.5	2.8			G5
BL (0°-30°)	1622.8	3.7	B3/2500		
BM (30°-60°)	3152.6	7.1	B3/5000		
BH (60°-80°)	1367.0	3.1	B3/2500		G3/2500
BVH (80°-90°)	48.6	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°	6121.4	6121.4	6121.4	6121.4	6121.4	6121.4	6121.4	6121.4	6121.4	6121.4
2.5°	6916.3	6797.5	6727.4	6553.9	6380.3	6240.2	6051.3	5926.5	5777.3	5634.1
5°	7708.1	7516.2	7284.8	6968.0	6678.7	6383.3	6097.0	5813.8	5515.3	5241.3
7.5°	8378.1	8100.9	7692.9	7272.6	6904.1	6547.8	6212.8	5838.2	5475.8	5046.3
10°	8889.7	8536.5	8000.4	7449.2	7025.9	6666.5	6340.7	6023.9	5658.5	5140.8
12.5°	9200.4	8822.7	8186.2	7540.6	7056.4	6654.4	6401.6	6261.5	6118.3	5603.7
15°	9428.8	9020.7	8317.2	7604.5	6986.3	6492.9	6307.2	6447.3	6611.7	6282.8
17.5°	9666.3	9236.9	8487.7	7631.9	6797.5	6179.3	6100.1	6462.5	6843.2	6827.9
20°	9891.7	9465.3	8637.0	7613.7	6492.9	5798.6	5868.6	6331.5	6773.1	6958.9
22.5°	10150.5	9699.8	8780.1	7543.6	6097.0	5442.3	5661.5	6124.4	6511.2	6730.5
25°	10467.3	9995.2	8981.1	7440.1	5670.7	5146.8	5451.4	5883.8	6197.5	6349.8
27.5°	10808.4	10348.5	9249.1	7385.3	5326.5	4936.7	5213.8	5597.6	5877.8	5984.3
30°	11231.7	10759.6	9565.8	7324.4	5101.2	4814.9	4967.2	5265.6	5539.7	5646.3
32.5°	11694.6	11216.5	9870.4	7178.2	4964.1	4723.5	4726.6	4915.4	5165.1	5293.0
35°	12273.2	11764.6	10196.2	6858.4	4854.5	4616.9	4492.1	4583.4	4790.5	4942.8
37.5°	13098.6	12483.4	10595.2	6401.6	4693.1	4452.5	4245.4	4266.7	4425.1	4592.6
40°	14237.6	13448.8	11064.2	5926.5	4461.6	4221.0	3974.3	3965.2	4080.9	4245.4
42.5°	15778.6	14724.8	11627.6	5472.7	4239.3	3940.8	3688.1	3672.8	3764.2	3907.3
45°	17813.0	16357.2	12318.9	5082.9	4065.7	3666.7	3417.0	3410.9	3487.1	3611.9
47.5°	20416.8	18626.1	13010.2	4817.9	3974.3	3450.5	3194.7	3206.9	3273.9	3386.6
50°	23788.2	21583.2	13220.4	4683.9	3974.3	3334.8	2996.7	3057.7	3112.5	3197.7
52.5°	27829.5	24421.6	12526.0	4562.1	3998.7	3350.0	2829.2	2960.2	2999.8	3072.9
55°	31575.4	25813.4	10768.8	4394.6	4004.8	3444.4	2686.1	2881.0	2954.1	2981.5
57.5°	33749.9	25335.3	8707.0	4111.4	3980.4	3508.4	2594.7	2783.6	2923.7	2941.9
60°	33335.7	23657.2	6410.7	3895.2	3800.7	3484.0	2567.3	2634.3	2856.7	2884.1
62.5°	30144.1	20843.2	4449.4	3727.7	3404.8	3377.4	2558.2	2399.8	2710.5	2777.5
65°	24229.8	16409.0	3142.9	3209.9	2984.6	3146.0	2509.5	2156.2	2533.8	2625.2
67.5°	17578.4	11103.8	2268.9	2600.8	2704.4	2771.4	2399.8	1979.6	2332.8	2454.6
70°	11280.4	5996.5	1592.8	1717.6	2278.0	2354.1	2211.0	1821.2	2128.8	2268.9
72.5°	8018.7	3541.9	1145.1	1203.0	1830.3	1961.3	1946.1	1644.6	1891.2	2061.8
75°	5533.6	1952.1	773.5	858.8	1327.8	1592.8	1501.4	1413.1	1601.9	1775.5
77.5°	3468.8	874.0	462.9	596.9	871.0	1251.7	1029.4	1093.3	1248.6	1410.1
80°	1930.8	338.0	258.9	395.9	475.1	910.6	569.5	703.5	919.7	1035.5
82.5°	420.3	42.6	115.7	170.5	185.8	529.9	301.5	408.1	578.6	569.5
85°	0.0	0.0	21.3	24.4	12.2	228.4	109.6	134.0	188.8	176.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1
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°
6121.4	0°	6121.4	6121.4	6121.4	6121.4	6121.4	6121.4	6121.4	6121.4	6121.4	6121.4
5506.2	2.5°	5481.8	5332.6	5223.0	5168.2	5122.5	5165.1	5189.5	5189.5	5293.0	5353.9
5073.8	5°	4967.2	4699.2	4495.1	4358.1	4275.8	4303.2	4333.7	4367.2	4498.2	4586.5
4817.9	7.5°	4610.8	4199.7	3889.1	3697.2	3596.7	3611.9	3633.2	3660.7	3788.6	3876.9
4854.5	10°	4543.8	3953.0	3514.5	3261.7	3139.9	3118.6	3106.4	3097.2	3173.4	3240.4
5268.7	12.5°	4817.9	3965.2	3353.1	3045.5	2896.2	2832.3	2759.2	2701.3	2713.5	2756.1
5896.0	15°	5308.3	4120.5	3301.3	2932.8	2747.0	2640.4	2555.1	2485.1	2469.9	2485.1
6444.2	17.5°	5868.6	4330.7	3295.2	2835.3	2603.9	2494.2	2424.2	2360.2	2338.9	2342.0
6751.8	20°	6240.2	4498.2	3276.9	2725.7	2466.8	2369.4	2308.5	2244.5	2223.2	2229.3
6666.5	22.5°	6276.7	4586.5	3249.5	2603.9	2329.8	2247.6	2186.6	2128.8	2125.7	2125.7
6346.8	25°	6078.8	4586.5	3191.7	2494.2	2198.8	2125.7	2070.9	2000.9	2013.1	2019.1
5984.3	27.5°	5771.2	4476.8	3082.0	2405.9	2086.1	2010.0	1955.2	1891.2	1906.5	1915.6
5646.3	30°	5466.6	4336.7	2951.1	2305.4	1979.6	1891.2	1851.6	1796.8	1802.9	1815.1
5311.3	32.5°	5183.4	4187.5	2795.7	2223.2	1873.0	1784.6	1754.2	1693.3	1702.4	1714.6
4982.4	35°	4903.2	4023.1	2613.0	2125.7	1775.5	1687.2	1662.8	1592.8	1598.9	1617.1
4653.5	37.5°	4601.7	3849.5	2463.8	2028.3	1681.1	1589.7	1565.4	1492.3	1498.4	1519.7
4312.4	40°	4285.0	3678.9	2317.6	1924.7	1580.6	1489.2	1467.9	1388.7	1394.8	1419.2
3977.4	42.5°	3965.2	3493.2	2204.9	1790.7	1477.1	1379.6	1358.3	1285.2	1294.3	1321.7
3685.0	45°	3669.8	3270.8	2131.8	1641.5	1379.6	1270.0	1248.6	1181.6	1199.9	1230.4
3438.3	47.5°	3417.0	3042.4	2101.4	1516.6	1276.1	1157.3	1139.0	1084.2	1114.6	1148.1
3228.2	50°	3200.8	2823.2	2061.8	1388.7	1178.6	1059.8	1041.6	1005.0	1044.6	1078.1
3085.1	52.5°	3045.5	2573.4	1976.5	1273.0	1093.3	977.6	971.5	953.2	989.8	1020.2
2978.5	55°	2911.5	2314.6	1839.5	1172.5	1017.2	907.5	913.6	904.5	935.0	959.3
2914.5	57.5°	2789.6	2089.2	1665.9	1093.3	935.0	846.6	864.9	852.7	868.0	883.2
2847.5	60°	2643.5	1860.8	1458.8	1005.0	837.5	785.7	807.0	773.5	770.5	776.6
2725.7	62.5°	2427.2	1553.2	1242.6	895.4	752.2	718.7	727.9	663.9	615.2	615.2
2546.0	65°	2125.7	1248.6	1041.6	773.5	654.8	627.4	621.3	529.9	462.9	456.8
2351.1	67.5°	1775.5	1026.3	864.9	651.7	545.1	526.9	533.0	466.0	399.0	392.9
2156.2	70°	1446.6	849.7	697.4	520.8	420.3	438.5	466.0	399.0	335.0	325.9
1927.8	72.5°	1175.6	676.1	545.1	399.0	310.6	362.4	395.9	325.9	265.0	258.9
1644.6	75°	907.5	496.4	389.8	271.0	225.4	280.2	310.6	237.5	188.8	179.7
1273.0	77.5°	606.0	307.6	219.3	170.5	134.0	191.9	207.1	124.9	109.6	106.6
925.8	80°	368.5	143.1	94.4	82.2	45.7	70.0	82.2	51.8	57.9	60.9
493.4	82.5°	185.8	39.6	15.2	3.0	0.0	0.0	24.4	12.2	24.4	30.5
134.0	85°	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	15.2
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°
6121.4	0°	6121.4	6121.4	6121.4	6121.4	6121.4	6121.4	6121.4	6121.4	6121.4	6121.4
5378.3	2.5°	5548.8	5676.8	5798.6	5993.5	6194.5	6392.4	6593.4	6788.4	6858.4	6910.2
4644.3	5°	4909.3	5149.9	5430.1	5816.8	6231.0	6657.4	7089.9	7485.8	7665.4	7787.3
3953.0	7.5°	4248.4	4562.1	4964.1	5545.8	6194.5	6873.6	7552.8	8177.1	8466.4	8700.9
3301.3	10°	3593.7	3934.7	4443.3	5107.3	5984.3	6958.9	7896.9	8755.7	9130.3	9425.7
2832.3	12.5°	3018.1	3337.8	3870.8	4604.7	5655.4	6891.9	8094.9	9127.3	9568.9	9900.8
2497.3	15°	2613.0	2838.4	3310.4	4102.2	5265.6	6675.7	8107.0	9303.9	9788.1	10135.3
2357.2	17.5°	2387.6	2463.8	2771.4	3590.6	4833.2	6392.4	7994.4	9364.8	9882.5	10205.4
2232.3	20°	2265.8	2278.0	2363.3	2926.7	4278.9	6127.5	7887.8	9425.7	9970.9	10241.9
2144.0	22.5°	2168.4	2168.4	2189.7	2393.7	3563.2	5810.8	7854.3	9532.3	10092.7	10260.2
2043.5	25°	2080.1	2080.1	2086.1	2141.0	2823.2	5326.5	7832.9	9696.8	10260.2	10305.9
1943.0	27.5°	1988.7	1991.7	1991.7	2022.2	2275.0	4668.7	7741.6	9910.0	10461.2	10366.8
1845.6	30°	1897.3	1903.4	1903.4	1924.7	2013.1	3898.2	7561.9	10165.8	10723.1	10446.0
1748.1	32.5°	1806.0	1812.1	1812.1	1830.3	1894.3	3112.5	7336.5	10400.3	10988.1	10479.5
1653.7	35°	1711.6	1720.7	1714.6	1739.0	1806.0	2476.0	7050.3	10634.8	11274.3	10586.1
1562.3	37.5°	1617.1	1623.2	1620.2	1644.6	1720.7	2137.9	6718.3	10811.4	11664.1	10823.6
1464.9	40°	1522.7	1519.7	1519.7	1547.1	1629.3	2040.5	6301.1	11091.6	12224.5	11240.8
1367.4	42.5°	1425.3	1425.3	1419.2	1449.6	1550.1	1967.4	5902.1	11594.1	13040.7	11904.7
1276.1	45°	1337.0	1333.9	1321.7	1349.1	1474.0	1839.5	5762.0	12532.1	14246.7	12979.8
1184.7	47.5°	1251.7	1248.6	1218.2	1242.6	1382.6	1723.7	6285.8	14067.0	15918.7	14560.4
1111.6	50°	1175.6	1178.6	1120.7	1142.1	1291.3	1635.4	7421.8	16058.8	18138.8	16689.2
1050.7	52.5°	1105.5	1105.5	1029.4	1041.6	1178.6	1556.2	8503.0	18218.0	21068.6	19658.5
986.7	55°	1035.5	1029.4	944.1	950.2	1065.9	1443.6	8664.4	20325.5	25064.2	24126.2
916.7	57.5°	956.3	944.1	864.9	864.9	962.4	1361.3	7510.1	21945.7	30022.2	30692.2
785.7	60°	858.8	849.7	797.9	782.7	880.1	1434.4	5299.1	22134.5	33220.0	39423.6
624.3	62.5°	734.0	746.1	718.7	697.4	801.0	1489.2	3139.9	20614.8	32446.4	42201.1
484.2	65°	578.6	627.4	621.3	606.0	880.1	1254.7	1854.7	17697.2	30074.0	39959.6
423.3	67.5°	493.4	526.9	517.7	517.7	922.8	953.2	1166.4	13826.4	26809.3	37300.9
353.3	70°	420.3	453.8	420.3	420.3	697.4	578.6	807.0	9654.1	23285.7	34359.0
283.2	72.5°	347.2	380.7	344.1	319.8	557.3	432.5	590.8	6033.1	19941.7	31295.2
201.0	75°	265.0	304.5	277.1	246.7	368.5	322.8	447.7	3505.3	16521.7	26775.8
121.8	77.5°	167.5	219.3	207.1	173.6	271.0	234.5	322.8	2086.1	12748.3	20922.4
73.1	80°	103.5	112.7	115.7	109.6	155.3	158.4	219.3	1187.7	8725.3	14581.7
45.7	82.5°	67.0	67.0	51.8	57.9	76.1	91.4	124.9	447.7	5128.6	8877.5
27.4	85°	48.7	42.6	27.4	27.4	36.5	45.7	48.7	137.0	2080.1	3505.3
12.2	87.5°	24.4	21.3	9.1	12.2	18.3	15.2	12.2	6.1	523.8	1120.7
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°
6121.4	0°	6121.4	6121.4	6121.4	6121.4	6121.4	6121.4	6121.4	6121.4
7025.9	2.5°	7086.8	7181.2	7187.3	7187.3	7105.1	7102.0	6934.5	6916.3
8061.4	5°	8344.6	8405.5	8420.7	8390.3	8225.8	8104.0	7778.1	7708.1
9118.1	7.5°	9495.8	9617.6	9617.6	9544.5	9276.5	9026.8	8554.7	8378.1
9992.2	10°	10415.5	10555.6	10525.1	10375.9	10037.9	9693.7	9121.2	8889.7
10522.1	12.5°	10863.2	11006.3	10927.1	10756.6	10427.7	10065.3	9462.3	9200.4
10674.4	15°	10854.1	10814.5	10732.2	10710.9	10552.6	10278.5	9715.0	9428.8
10580.0	17.5°	10467.3	10132.3	10068.3	10281.5	10482.5	10415.5	9934.3	9666.3
10354.6	20°	9855.1	9270.4	9212.5	9620.6	10193.2	10485.6	10138.4	9891.7
10028.7	22.5°	9209.5	8579.1	8445.1	8895.8	9757.7	10506.9	10397.2	10150.5
9669.4	25°	8597.4	7963.9	7829.9	8250.2	9273.5	10470.3	10677.4	10467.3
9325.2	27.5°	8085.7	7473.6	7348.7	7769.0	8807.5	10366.8	10957.6	10808.4
8984.1	30°	7689.8	7123.4	7032.0	7437.0	8405.5	10238.9	11313.9	11231.7
8667.4	32.5°	7458.4	7044.2	7077.7	7409.6	8189.3	10098.8	11655.0	11694.6
8512.1	35°	7686.8	7705.0	7997.4	8134.4	8390.3	10077.5	12117.9	12273.2
8697.9	37.5°	8822.7	9456.2	10062.2	9949.5	9374.0	10324.1	12809.2	13098.6
9508.0	40°	10756.6	12057.0	13040.7	12611.3	11161.6	11079.4	13805.1	14237.6
10945.4	42.5°	13119.9	15324.8	16945.0	15793.8	13467.1	12401.2	15227.3	15778.6
12684.4	45°	15614.1	19354.0	21906.1	19512.3	15924.8	14252.8	17380.5	17813.0
14313.7	47.5°	18242.4	24251.1	27552.4	23635.9	18202.8	16360.3	20316.3	20416.8
15857.8	50°	21117.3	29620.2	33308.3	27756.4	20401.6	18775.3	23903.9	23788.2
17657.6	52.5°	23855.2	35141.7	38942.4	31895.2	22332.4	21772.1	28067.0	27829.5
20118.4	55°	26468.2	40660.1	44610.0	35872.6	24153.6	25731.2	33012.9	31575.4
23666.3	57.5°	29498.4	45621.1	50451.2	39868.2	26699.6	30871.9	38543.5	33749.9
30460.8	60°	33978.3	51258.3	57056.9	45344.0	31541.9	36274.6	40526.1	33335.7
38598.3	62.5°	39697.7	56441.7	61859.6	50710.1	36405.5	37291.8	37605.5	30144.1
36938.5	65°	40809.3	57754.3	62130.6	52144.5	35778.2	31633.3	30701.4	24229.8
32994.6	67.5°	37861.3	55381.9	58342.1	49473.7	31648.5	24446.0	23039.0	17578.4
30406.0	70°	34553.9	50859.3	51739.5	44932.9	27835.6	17980.5	15559.3	11280.4
28633.5	72.5°	31164.3	44826.3	43005.1	39021.6	24464.3	13092.5	11222.6	8018.7
26108.8	75°	27138.2	36892.8	33874.8	32422.1	20255.4	10275.4	8119.2	5533.6
22457.3	77.5°	21732.5	25968.7	25161.7	25131.2	15221.3	7507.1	5417.9	3468.8
17544.9	80°	15330.9	16853.6	16442.5	18927.6	10211.5	5445.3	3261.7	1930.8
12212.3	82.5°	7421.8	9319.1	9565.8	11271.3	4967.2	3203.8	752.2	420.3
4775.3	85°	2905.4	4495.1	3791.6	4278.9	1394.8	892.3	18.3	0.0
785.7	87.5°	325.9	520.8	478.1	377.6	170.5	36.5	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)