

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: P954352

Luminaire Tested: **GALN-SB7C-850-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954352
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-SB7C-850-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38880 lumens
Efficiency: N/A
Efficacy: 110.9 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

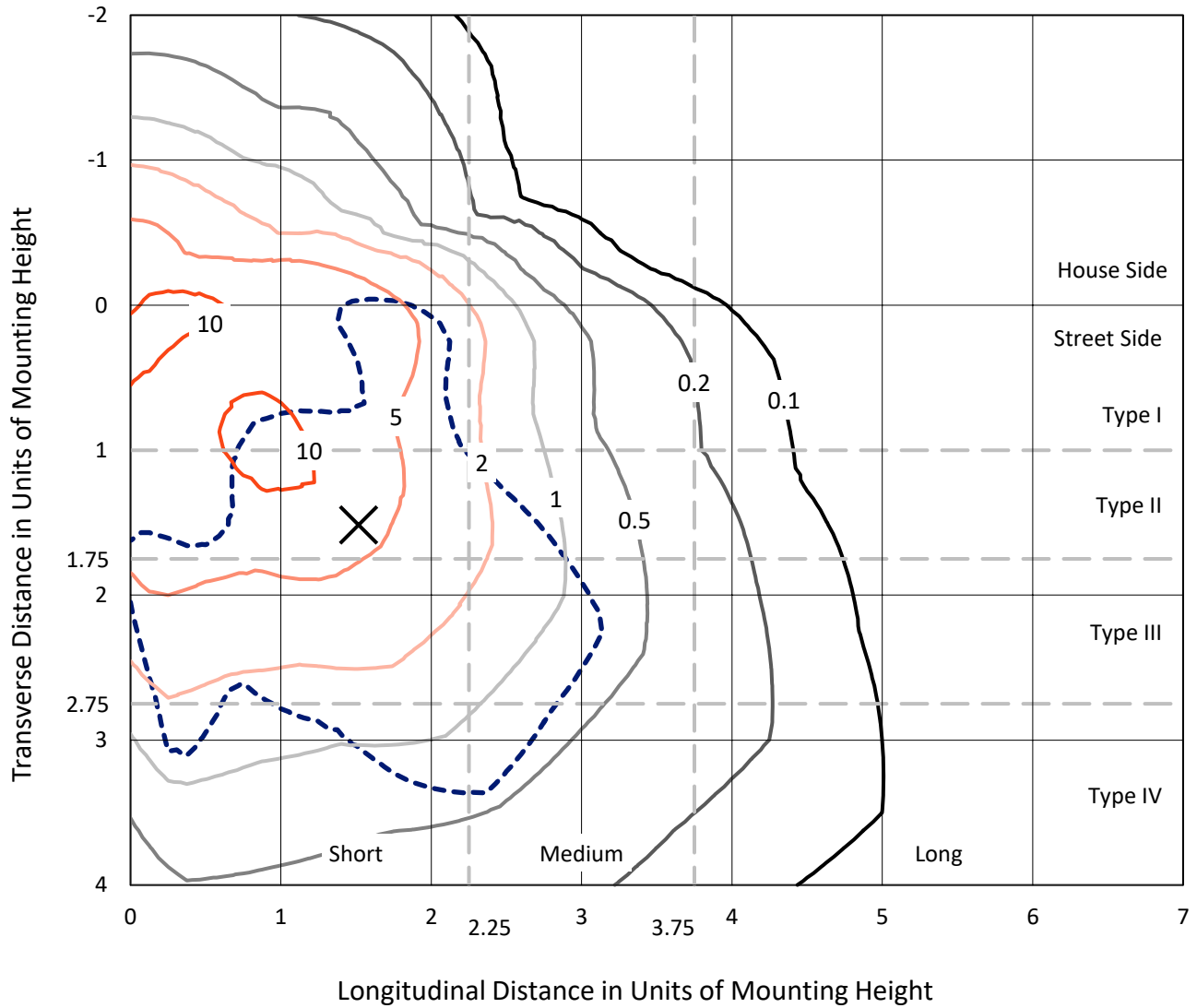
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

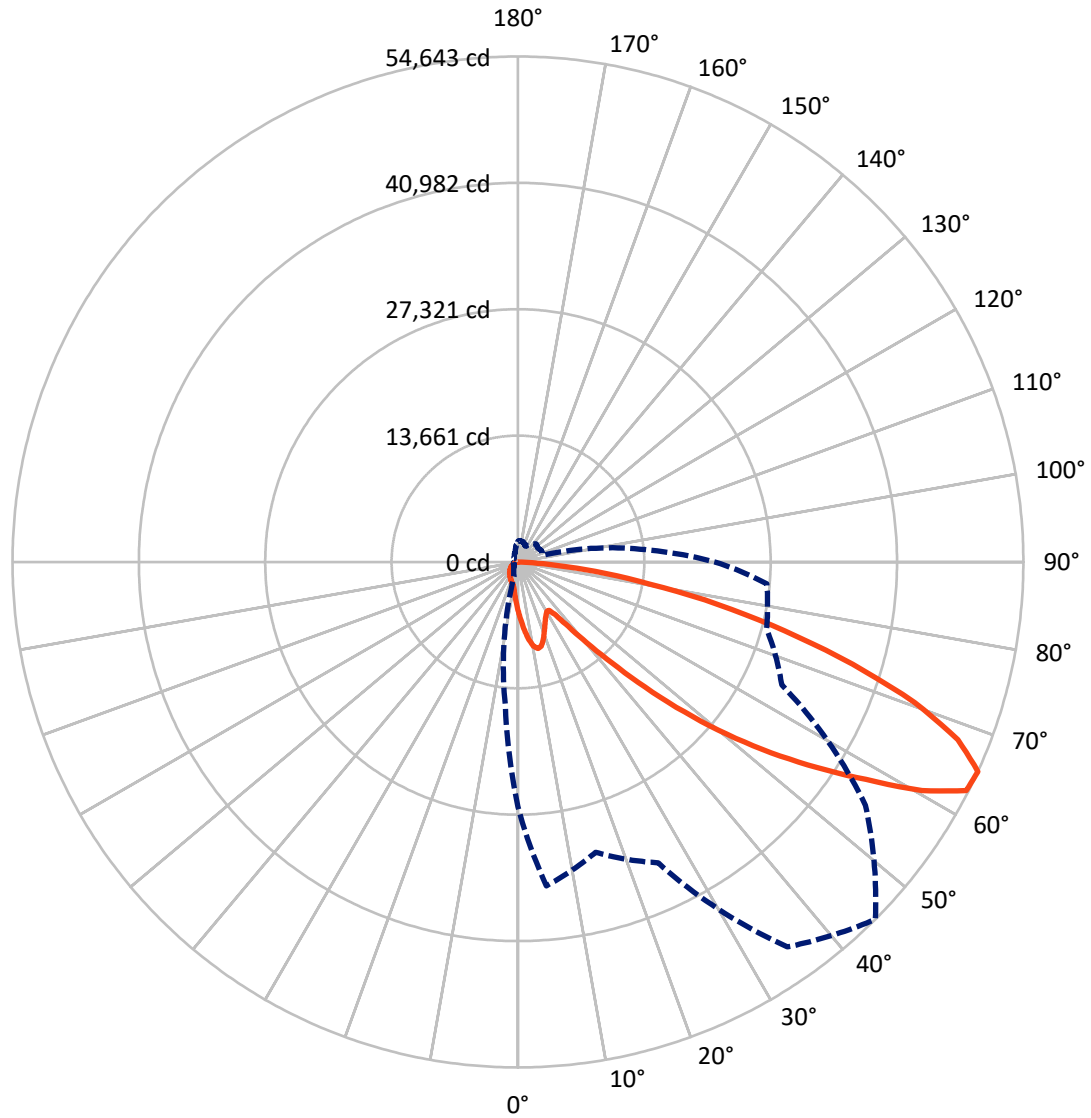
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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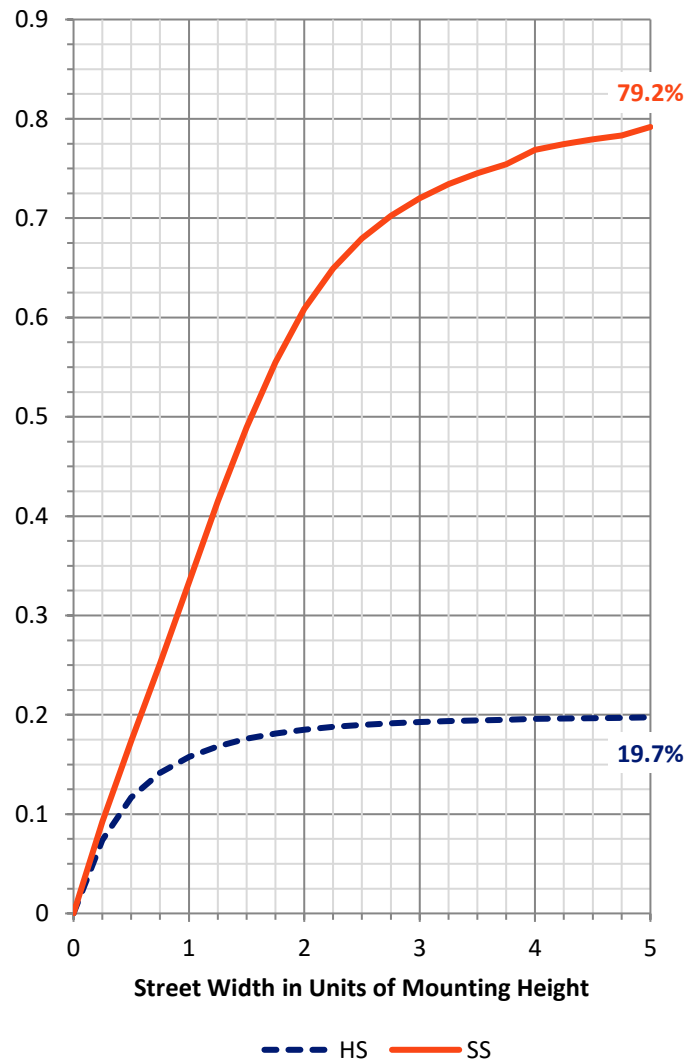
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7728.1	0.0	7728.1
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	31151.9	0.0	31151.9
	% Fixture	80.1	0.0	80.1
Total	Lumens	38880.0	0.0	38880.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.0	1.4
10°-20°	1588.9	4.1
20°-30°	2340.8	6.0
30°-40°	3007.2	7.7
40°-50°	4863.6	12.5
50°-60°	8528.8	21.9
60°-70°	10671.9	27.4
70°-80°	6236.1	16.0
80°-90°	1112.6	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°	38880.0	100.0
0°-180°	38880.0	100.0

Coefficient of Utilization



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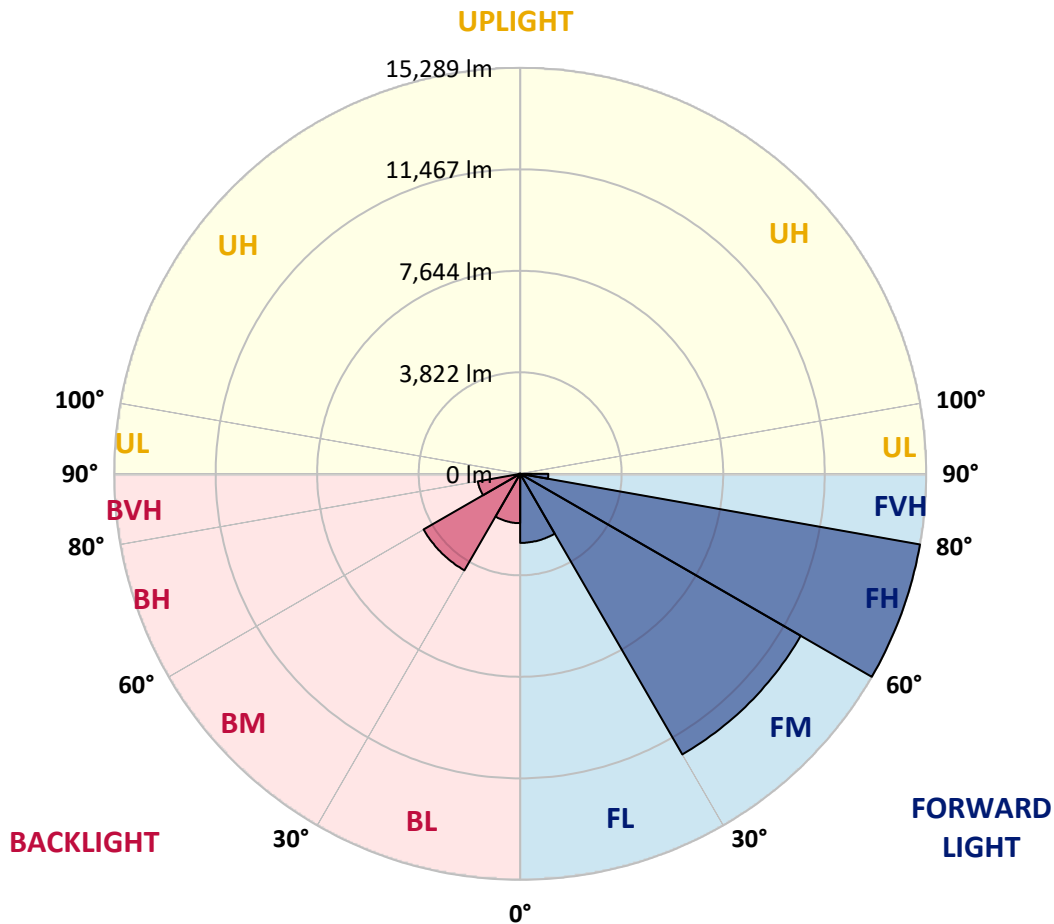
CATALOG NUMBER: GALN-SB7C-850-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2601.5	6.7			
FM (30°-60°)	12201.0	31.4			
FH (60°-80°)	15288.8	39.3			G5
FVH (80°-90°)	1060.5	2.7			G5
BL (0°-30°)	1858.2	4.8	B3/2500		
BM (30°-60°)	4198.7	10.8	B3/5000		
BH (60°-80°)	1619.2	4.2	B3/2500		G3/2500
BVH (80°-90°)	52.1	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°	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6
2.5°	6031.8	6077.3	6179.1	6232.7	6315.7	6321.1	6321.1	6248.8	6246.1	6098.8
5°	6741.6	6848.7	7089.8	7338.9	7392.5	7405.8	7379.1	7234.4	7127.3	6840.7
7.5°	7446.0	7652.3	8019.2	8351.3	8458.5	8458.5	8394.2	8158.5	7938.9	7523.7
10°	8029.9	8289.7	8787.9	9160.2	9283.4	9256.6	9125.4	8828.1	8525.4	8021.9
12.5°	8415.6	8707.6	9254.0	9553.9	9679.8	9610.2	9460.2	9170.9	8852.2	8321.9
15°	8608.5	8913.8	9387.9	9545.9	9511.1	9438.8	9420.0	9280.7	9039.7	8544.2
17.5°	8691.5	8975.4	9304.9	9205.7	8911.1	8854.9	9042.4	9219.1	9160.2	8737.0
20°	8769.2	9007.5	9106.6	8667.4	8153.1	8102.2	8461.1	8964.7	9221.8	8916.5
22.5°	8876.3	9023.6	8820.1	8099.6	7545.1	7427.3	7823.7	8581.7	9240.6	9144.1
25°	9023.6	9063.8	8504.0	7561.2	7004.1	6886.2	7255.9	8155.8	9208.4	9390.6
27.5°	9200.4	9117.4	8201.3	7111.2	6572.9	6463.0	6832.7	7746.0	9117.4	9637.0
30°	9430.7	9187.0	7901.4	6763.0	6264.8	6184.5	6540.7	7392.5	9004.9	9950.4
32.5°	9663.8	9216.5	7622.8	6559.5	6195.2	6224.7	6516.6	7202.3	8881.7	10250.3
35°	9915.5	9310.2	7486.2	6760.3	6776.4	7033.5	7154.1	7379.1	8862.9	10657.5
37.5°	10258.4	9519.1	7649.6	7759.4	8316.5	8849.5	8750.4	8244.2	9079.9	11265.5
40°	10751.2	9886.1	8362.0	9460.2	10603.9	11469.0	11091.4	9816.4	9744.1	12141.3
42.5°	11469.0	10470.0	9626.3	11538.7	13477.8	14902.8	13890.3	11844.0	10906.6	13392.1
45°	12529.7	11415.5	11155.6	13732.3	17021.4	19265.9	17160.7	14005.5	12535.0	15285.8
47.5°	14000.1	12805.6	12588.6	16043.8	21328.3	24231.7	20787.3	16009.0	14388.5	17867.8
50°	15952.7	14677.8	13946.6	18572.2	26050.4	29293.9	24411.2	17942.8	16512.5	21023.0
52.5°	18529.3	17289.2	15529.5	20980.1	30906.4	34249.0	28051.2	19640.9	19148.1	24684.4
55°	22043.4	21218.5	17693.7	23278.2	35759.7	39233.6	31549.2	21242.6	22630.0	29034.1
57.5°	26403.9	26993.2	20814.0	25943.2	40122.8	44370.8	35063.3	23481.8	27151.2	33898.2
60°	29216.3	34672.2	26789.6	29883.2	45080.6	50180.3	39879.1	27740.5	31902.7	35641.8
62.5°	28535.9	37114.9	33946.4	34913.3	49639.3	54404.2	44598.5	32017.9	32797.3	33073.2
65°	26449.5	35143.6	32486.6	35890.9	50793.7	54642.6	45860.0	31466.1	27820.8	27001.2
67.5°	23578.2	32805.4	29018.1	33298.2	48707.2	51310.6	43511.0	27834.2	21499.7	20262.3
70°	20479.2	30218.0	26741.4	30389.4	44729.7	45503.8	39517.5	24480.8	15813.4	13684.1
72.5°	17538.3	27523.5	25182.6	27408.3	39423.7	37822.1	34318.7	21515.8	11514.6	9870.0
75°	14530.5	23548.7	22962.1	23867.5	32446.5	29792.1	28514.5	17814.2	9037.0	7140.7
77.5°	11211.9	18400.8	19750.7	19113.2	22838.9	22129.2	22102.4	13386.8	6602.3	4764.9
80°	7673.7	12824.3	15430.4	13483.2	14822.4	14460.8	16646.4	8980.8	4789.0	2868.6
82.5°	4510.5	7807.6	10740.5	6527.3	8196.0	8412.9	9912.9	4368.5	2817.7	661.6
85°	1829.4	3082.9	4199.8	2555.2	3953.4	3334.6	3763.2	1226.7	784.8	16.1
87.5°	460.7	985.7	691.0	286.6	458.0	420.5	332.1	150.0	32.1	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
5383.6	0°	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6
6082.7	2.5°	5978.2	5916.6	5764.0	5611.3	5488.1	5322.0	5212.2	5081.0	4955.1	4842.6
6779.1	5°	6610.4	6406.8	6128.2	5873.8	5614.0	5362.2	5113.1	4850.6	4609.6	4462.3
7368.3	7.5°	7124.6	6765.7	6396.1	6072.0	5758.6	5464.0	5134.5	4815.8	4438.2	4237.3
7818.3	10°	7507.6	7036.2	6551.4	6179.1	5863.1	5576.5	5297.9	4976.5	4521.2	4269.4
8091.5	12.5°	7759.4	7199.6	6631.8	6205.9	5852.4	5630.1	5506.8	5381.0	4928.3	4633.7
8292.4	15°	7933.5	7314.8	6688.0	6144.3	5710.4	5547.0	5670.2	5814.9	5525.6	5185.4
8501.3	17.5°	8123.7	7464.8	6712.1	5978.2	5434.5	5364.9	5683.6	6018.4	6005.0	5667.5
8699.5	20°	8324.5	7596.0	6696.1	5710.4	5099.7	5161.3	5568.4	5956.8	6120.2	5938.1
8927.2	22.5°	8530.8	7721.9	6634.5	5362.2	4786.3	4979.2	5386.3	5726.5	5919.3	5863.1
9205.7	25°	8790.6	7898.7	6543.4	4987.2	4526.5	4794.4	5174.7	5450.6	5584.5	5581.8
9505.7	27.5°	9101.3	8134.4	6495.2	4684.6	4341.7	4585.5	4922.9	5169.4	5263.1	5263.1
9878.0	30°	9462.9	8412.9	6441.6	4486.4	4234.6	4368.5	4631.0	4872.1	4965.8	4965.8
10285.2	32.5°	9864.6	8680.8	6313.0	4365.8	4154.2	4156.9	4323.0	4542.6	4655.1	4671.2
10794.1	35°	10346.8	8967.4	6031.8	4269.4	4060.5	3950.7	4031.0	4213.2	4347.1	4381.9
11519.9	37.5°	10978.9	9318.2	5630.1	4127.5	3915.9	3733.7	3752.5	3891.8	4039.1	4092.6
12521.6	40°	11827.9	9730.7	5212.2	3923.9	3712.3	3495.3	3487.3	3589.1	3733.7	3792.7
13876.9	42.5°	12950.2	10226.2	4813.1	3728.4	3465.9	3243.6	3230.2	3310.5	3436.4	3498.0
15666.1	45°	14385.8	10834.2	4470.3	3575.7	3224.8	3005.2	2999.8	3066.8	3176.6	3240.9
17956.2	47.5°	16381.3	11442.2	4237.3	3495.3	3034.7	2809.7	2820.4	2879.3	2978.4	3023.9
20921.2	50°	18982.0	11627.0	4119.4	3495.3	2932.9	2635.6	2689.1	2737.4	2812.3	2839.1
24475.5	52.5°	21478.3	11016.4	4012.3	3516.8	2946.3	2488.3	2603.4	2638.2	2702.5	2713.2
27769.9	55°	22702.3	9470.9	3865.0	3522.1	3029.3	2362.4	2533.8	2598.1	2622.2	2619.5
29682.3	57.5°	22281.8	7657.6	3615.9	3500.7	3085.5	2282.0	2448.1	2571.3	2587.4	2563.3
29318.0	60°	20806.0	5638.1	3425.7	3342.7	3064.1	2257.9	2316.8	2512.4	2536.5	2504.3
26511.1	62.5°	18331.1	3913.2	3278.4	2994.5	2970.4	2249.9	2110.6	2383.8	2442.7	2397.2
21309.6	65°	14431.4	2764.1	2823.1	2624.9	2766.8	2207.0	1896.3	2228.5	2308.8	2239.2
15459.9	67.5°	9765.5	1995.4	2287.4	2378.4	2437.4	2110.6	1741.0	2051.7	2158.8	2067.7
9920.9	70°	5273.8	1400.8	1510.6	2003.5	2070.4	1944.5	1601.7	1872.2	1995.4	1896.3
7052.3	72.5°	3115.0	1007.1	1058.0	1609.7	1724.9	1711.5	1446.3	1663.3	1813.3	1695.4
4866.7	75°	1716.9	680.3	755.3	1167.8	1400.8	1320.5	1242.8	1408.9	1561.5	1446.3
3050.7	77.5°	768.7	407.1	525.0	766.0	1100.8	905.3	961.6	1098.2	1240.1	1119.6
1698.1	80°	297.3	227.7	348.2	417.8	800.8	500.9	618.7	808.9	910.7	814.2
369.6	82.5°	37.5	101.8	150.0	163.4	466.0	265.2	358.9	508.9	500.9	433.9
0.0	85°	0.0	18.7	21.4	10.7	200.9	96.4	117.9	166.1	155.3	117.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	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°
5383.6	0°	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6
4821.2	2.5°	4689.9	4593.5	4545.3	4505.1	4542.6	4564.0	4564.0	4655.1	4708.7	4730.1
4368.5	5°	4132.8	3953.4	3832.8	3760.5	3784.6	3811.4	3840.9	3956.0	4033.7	4084.6
4055.1	7.5°	3693.5	3420.3	3251.6	3163.2	3176.6	3195.4	3219.5	3332.0	3409.6	3476.6
3996.2	10°	3476.6	3090.9	2868.6	2761.5	2742.7	2732.0	2724.0	2790.9	2849.8	2903.4
4237.3	12.5°	3487.3	2948.9	2678.4	2547.2	2490.9	2426.7	2375.8	2386.5	2424.0	2490.9
4668.5	15°	3623.9	2903.4	2579.3	2415.9	2322.2	2247.2	2185.6	2172.2	2185.6	2196.3
5161.3	17.5°	3808.7	2898.1	2493.6	2290.1	2193.6	2132.0	2075.8	2057.0	2059.7	2073.1
5488.1	20°	3956.0	2882.0	2397.2	2169.5	2083.8	2030.2	1974.0	1955.3	1960.6	1963.3
5520.2	22.5°	4033.7	2857.9	2290.1	2049.0	1976.7	1923.1	1872.2	1869.5	1869.5	1885.6
5346.1	25°	4033.7	2807.0	2193.6	1933.8	1869.5	1821.3	1759.7	1770.4	1775.8	1797.2
5075.6	27.5°	3937.3	2710.6	2116.0	1834.7	1767.8	1719.5	1663.3	1676.7	1684.7	1708.8
4807.8	30°	3814.1	2595.4	2027.6	1741.0	1663.3	1628.5	1580.3	1585.6	1596.3	1623.1
4558.7	32.5°	3682.8	2458.8	1955.3	1647.2	1569.6	1542.8	1489.2	1497.2	1508.0	1537.4
4312.3	35°	3538.2	2298.1	1869.5	1561.5	1483.8	1462.4	1400.8	1406.2	1422.2	1454.4
4047.1	37.5°	3385.5	2166.8	1783.8	1478.5	1398.1	1376.7	1312.4	1317.8	1336.5	1374.0
3768.5	40°	3235.5	2038.3	1692.8	1390.1	1309.8	1291.0	1221.4	1226.7	1248.1	1288.3
3487.3	42.5°	3072.2	1939.2	1574.9	1299.0	1213.3	1194.6	1130.3	1138.3	1162.4	1202.6
3227.5	45°	2876.6	1874.9	1443.7	1213.3	1116.9	1098.2	1039.2	1055.3	1082.1	1122.3
3005.2	47.5°	2675.7	1848.1	1333.9	1122.3	1017.8	1001.7	953.5	980.3	1009.8	1041.9
2815.0	50°	2482.9	1813.3	1221.4	1036.6	932.1	916.0	883.9	918.7	948.2	977.6
2678.4	52.5°	2263.3	1738.3	1119.6	961.6	859.8	854.4	838.3	870.5	897.3	924.1
2560.6	55°	2035.6	1617.8	1031.2	894.6	798.2	803.5	795.5	822.3	843.7	867.8
2453.4	57.5°	1837.4	1465.1	961.6	822.3	744.6	760.7	750.0	763.4	776.7	806.2
2324.9	60°	1636.5	1283.0	883.9	736.6	691.0	709.8	680.3	677.6	683.0	691.0
2134.7	62.5°	1366.0	1092.8	787.5	661.6	632.1	640.1	583.9	541.0	541.0	549.1
1869.5	65°	1098.2	916.0	680.3	575.9	551.8	546.4	466.0	407.1	401.8	425.9
1561.5	67.5°	902.6	760.7	573.2	479.4	463.4	468.7	409.8	350.9	345.5	372.3
1272.3	70°	747.3	613.4	458.0	369.6	385.7	409.8	350.9	294.6	286.6	310.7
1033.9	72.5°	594.6	479.4	350.9	273.2	318.7	348.2	286.6	233.0	227.7	249.1
798.2	75°	436.6	342.8	238.4	198.2	246.4	273.2	208.9	166.1	158.0	176.8
533.0	77.5°	270.5	192.8	150.0	117.9	168.7	182.1	109.8	96.4	93.7	107.1
324.1	80°	125.9	83.0	72.3	40.2	61.6	72.3	45.5	50.9	53.6	64.3
163.4	82.5°	34.8	13.4	2.7	0.0	0.0	21.4	10.7	21.4	26.8	40.2
13.4	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	13.4	24.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.7
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°
5383.6	0°	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6	5383.6
4880.1	2.5°	4992.6	5099.7	5271.1	5447.9	5622.0	5798.8	5970.2	6031.8
4317.6	5°	4529.2	4775.6	5115.8	5480.1	5855.0	6235.4	6583.6	6741.6
3736.4	7.5°	4012.3	4365.8	4877.4	5447.9	6045.2	6642.5	7191.6	7446.0
3160.5	10°	3460.5	3907.8	4491.7	5263.1	6120.2	6945.2	7700.5	8029.9
2654.3	12.5°	2935.6	3404.3	4049.8	4973.8	6061.3	7119.3	8027.2	8415.6
2298.1	15°	2496.3	2911.4	3607.8	4631.0	5871.1	7130.0	8182.6	8608.5
2099.9	17.5°	2166.8	2437.4	3157.9	4250.7	5622.0	7030.9	8236.2	8691.5
1992.7	20°	2003.5	2078.5	2574.0	3763.2	5389.0	6937.1	8289.7	8769.2
1907.0	22.5°	1907.0	1925.8	2105.2	3133.8	5110.4	6907.7	8383.5	8876.3
1829.4	25°	1829.4	1834.7	1882.9	2482.9	4684.6	6888.9	8528.1	9023.6
1749.0	27.5°	1751.7	1751.7	1778.5	2000.8	4106.0	6808.6	8715.6	9200.4
1668.7	30°	1674.0	1674.0	1692.8	1770.4	3428.4	6650.5	8940.6	9430.7
1588.3	32.5°	1593.7	1593.7	1609.7	1666.0	2737.4	6452.3	9146.8	9663.8
1505.3	35°	1513.3	1508.0	1529.4	1588.3	2177.6	6200.6	9353.1	9915.5
1422.2	37.5°	1427.6	1424.9	1446.3	1513.3	1880.3	5908.6	9508.4	10258.4
1339.2	40°	1336.5	1336.5	1360.6	1433.0	1794.5	5541.7	9754.8	10751.2
1253.5	42.5°	1253.5	1248.1	1274.9	1363.3	1730.3	5190.8	10196.8	11469.0
1175.8	45°	1173.2	1162.4	1186.5	1296.4	1617.8	5067.6	11021.7	12529.7
1100.8	47.5°	1098.2	1071.4	1092.8	1216.0	1516.0	5528.3	12371.6	14000.1
1033.9	50°	1036.6	985.7	1004.4	1135.7	1438.3	6527.3	14123.3	15952.7
972.3	52.5°	972.3	905.3	916.0	1036.6	1368.7	7478.2	16022.3	18529.3
910.7	55°	905.3	830.3	835.7	937.4	1269.6	7620.1	17875.8	22043.4
841.0	57.5°	830.3	760.7	760.7	846.4	1197.3	6605.0	19300.7	26403.9
755.3	60°	747.3	701.7	688.4	774.1	1261.5	4660.5	19466.8	29216.3
645.5	62.5°	656.2	632.1	613.4	704.4	1309.8	2761.5	18130.3	28535.9
508.9	65°	551.8	546.4	533.0	774.1	1103.5	1631.2	15564.3	26449.5
433.9	67.5°	463.4	455.3	455.3	811.6	838.3	1025.8	12160.1	23578.2
369.6	70°	399.1	369.6	369.6	613.4	508.9	709.8	8490.6	20479.2
305.3	72.5°	334.8	302.7	281.2	490.2	380.3	519.6	5306.0	17538.3
233.0	75°	267.8	243.7	217.0	324.1	283.9	393.7	3082.9	14530.5
147.3	77.5°	192.8	182.1	152.7	238.4	206.2	283.9	1834.7	11211.9
91.1	80°	99.1	101.8	96.4	136.6	139.3	192.8	1044.6	7673.7
58.9	82.5°	58.9	45.5	50.9	67.0	80.4	109.8	393.7	4510.5
42.9	85°	37.5	24.1	24.1	32.1	40.2	42.9	120.5	1829.4
21.4	87.5°	18.7	8.0	10.7	16.1	13.4	10.7	5.4	460.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)