

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: P953283

Luminaire Tested: **GALN-SB6D-850-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953283
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-SB6D-850-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 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: 45047 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

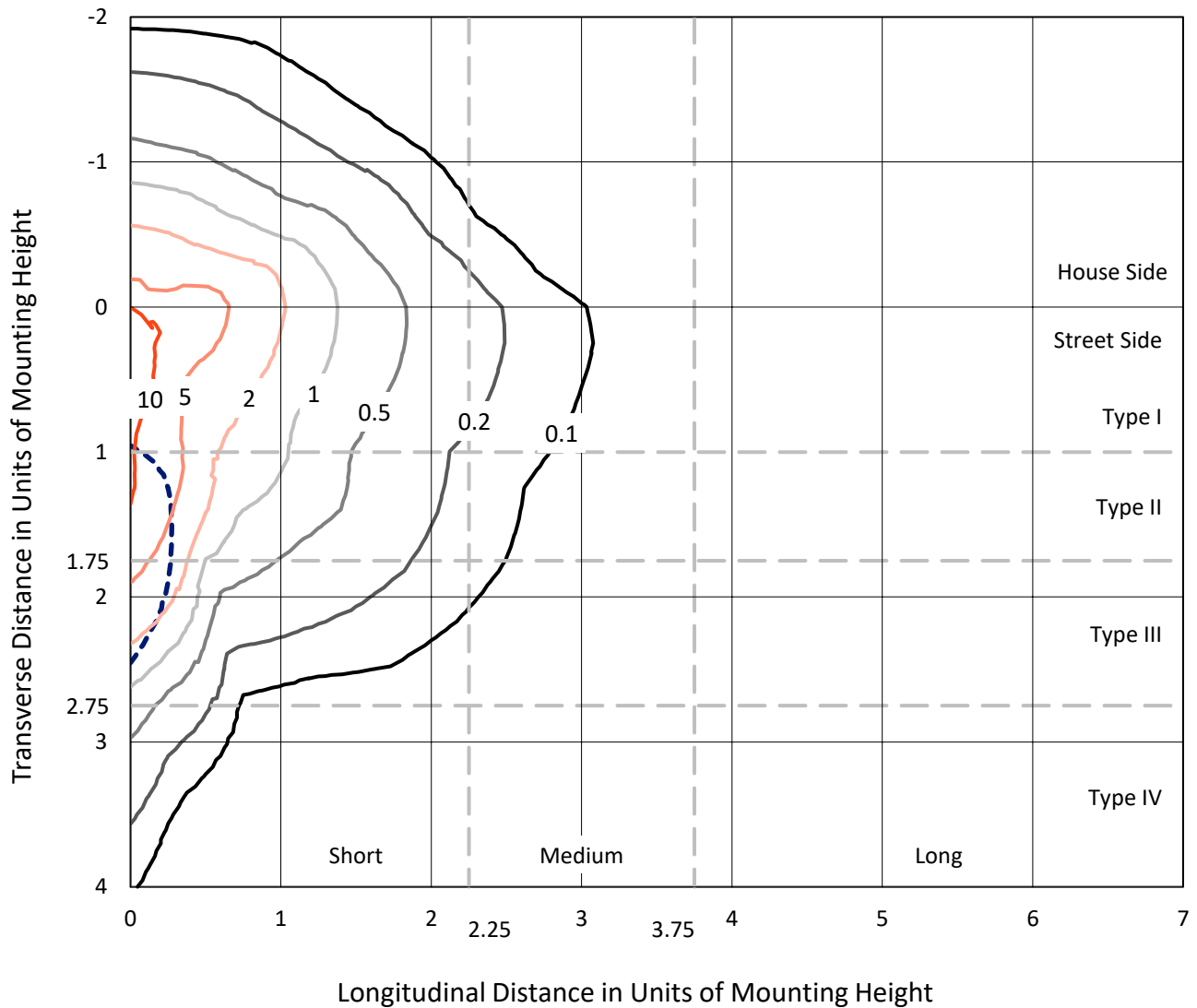
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

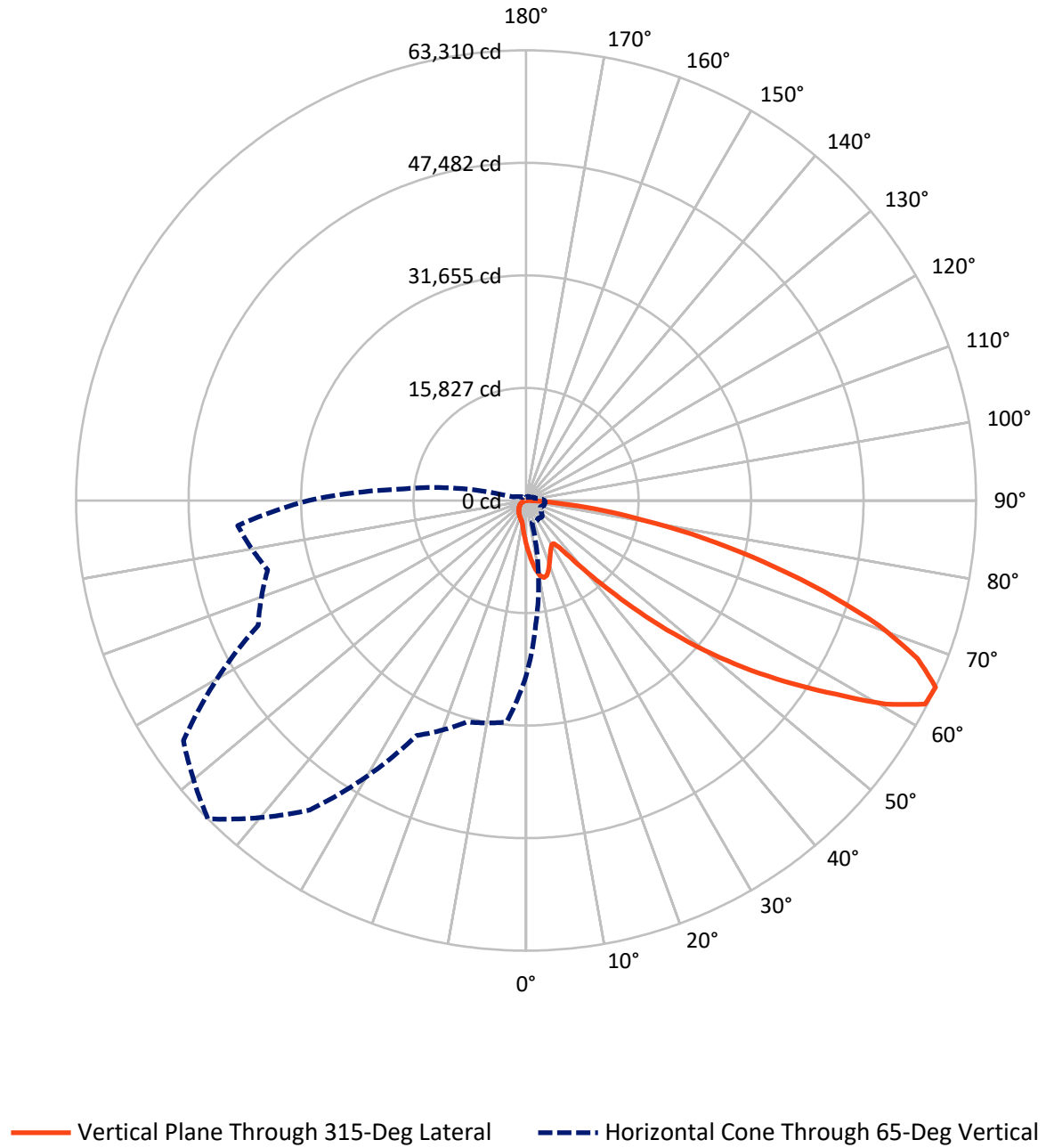
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 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	6308.5	0.0	6308.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	38738.5	0.0	38738.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	45047.0	0.0	45047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.1	1.4
10°-20°	1840.9	4.1
20°-30°	2712.0	6.0
30°-40°	3484.2	7.7
40°-50°	5635.1	12.5
50°-60°	9881.6	21.9
60°-70°	12364.6	27.4
70°-80°	7225.3	16.0
80°-90°	1289.1	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°	45047.0	100.0
0°-180°	45047.0	100.0

Coefficient of Utilization



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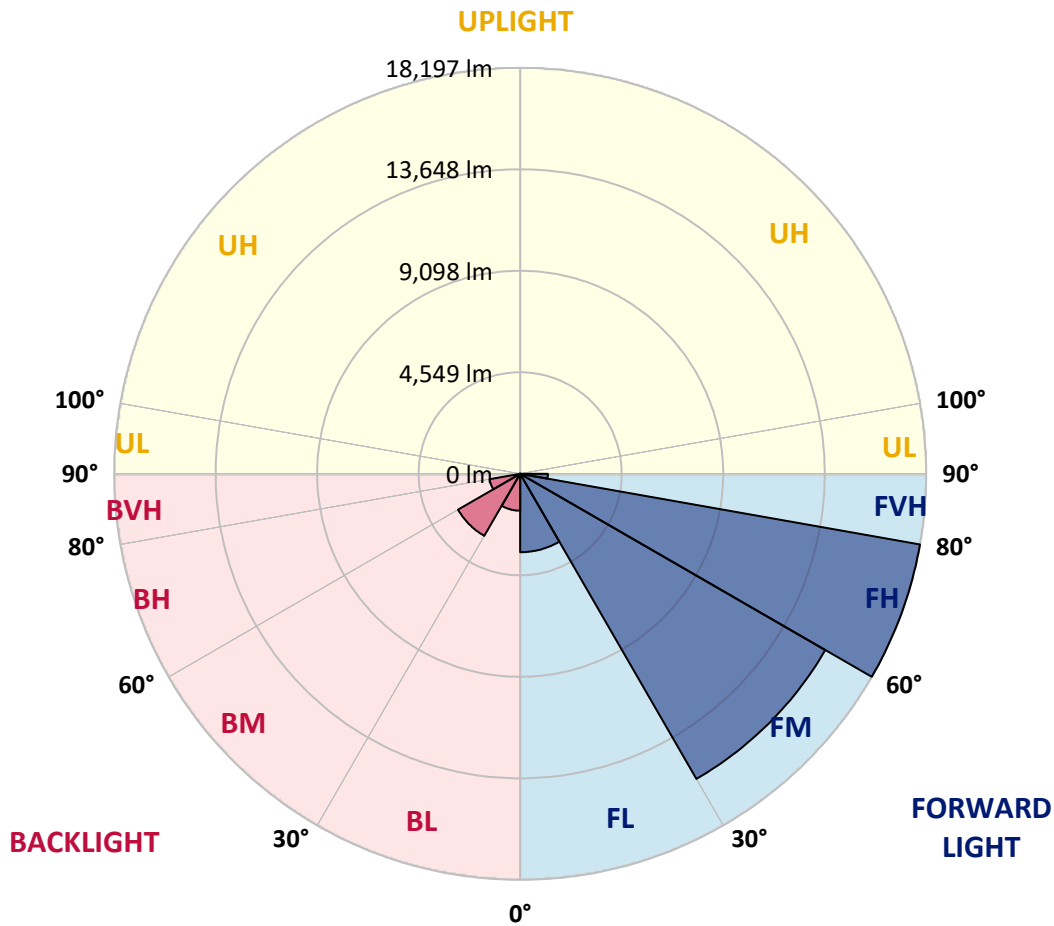
CATALOG NUMBER: GALN-SB6D-850-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3513.5	7.8			
FM (30°-60°)	15788.5	35.0			
FH (60°-80°)	18196.9	40.4			G5
FVH (80°-90°)	1239.6	2.8			G5
BL (0°-30°)	1653.6	3.7	B3/2500		
BM (30°-60°)	3212.4	7.1	B3/5000		
BH (60°-80°)	1393.0	3.1	B3/2500		G3/2500
BVH (80°-90°)	49.5	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°	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6
2.5°	7047.5	6926.5	6855.1	6678.2	6501.3	6358.6	6166.2	6039.0	5886.9	5741.0
5°	7854.4	7658.9	7423.0	7100.3	6805.5	6504.4	6212.7	5924.1	5620.0	5340.7
7.5°	8537.1	8254.7	7838.9	7410.6	7035.1	6672.0	6330.7	5949.0	5579.7	5142.1
10°	9058.4	8698.5	8152.3	7590.6	7159.2	6793.1	6461.0	6138.3	5765.9	5238.3
12.5°	9375.0	8990.2	8341.6	7683.7	7190.3	6780.6	6523.1	6380.3	6234.5	5710.0
15°	9607.7	9191.9	8475.0	7748.9	7118.9	6616.2	6426.9	6569.6	6737.2	6402.0
17.5°	9849.8	9412.2	8648.8	7776.8	6926.5	6296.5	6215.8	6585.1	6973.0	6957.5
20°	10079.4	9645.0	8800.9	7758.2	6616.2	5908.6	5980.0	6451.7	6901.7	7091.0
22.5°	10343.2	9883.9	8946.7	7686.8	6212.7	5545.5	5769.0	6240.7	6634.8	6858.2
25°	10665.9	10184.9	9151.5	7581.3	5778.3	5244.5	5554.8	5995.5	6315.1	6470.3
27.5°	11013.5	10544.9	9424.6	7525.4	5427.6	5030.4	5312.8	5703.8	5989.3	6097.9
30°	11444.9	10963.8	9747.4	7463.4	5198.0	4906.3	5061.4	5365.5	5644.8	5753.5
32.5°	11916.5	11429.3	10057.7	7314.4	5058.3	4813.2	4816.3	5008.7	5263.1	5393.5
35°	12506.2	11987.9	10389.7	6988.6	4946.6	4704.6	4577.3	4670.4	4881.4	5036.6
37.5°	13347.2	12720.3	10796.3	6523.1	4782.1	4537.0	4326.0	4347.7	4509.0	4679.7
40°	14507.8	13704.0	11274.2	6039.0	4546.3	4301.1	4049.8	4040.5	4158.4	4326.0
42.5°	16078.0	15004.3	11848.3	5576.6	4319.7	4015.6	3758.1	3742.5	3835.6	3981.5
45°	18151.0	16667.7	12552.7	5179.4	4142.9	3736.3	3481.9	3475.7	3553.2	3680.5
47.5°	20804.3	18979.6	13257.2	4909.4	4049.8	3516.0	3255.3	3267.7	3336.0	3450.8
50°	24239.6	21992.9	13471.3	4772.8	4049.8	3398.1	3053.6	3115.7	3171.5	3258.4
52.5°	28357.7	24885.1	12763.7	4648.7	4074.6	3413.6	2882.9	3016.4	3056.7	3131.2
55°	32174.7	26303.3	10973.2	4478.0	4080.8	3509.8	2737.1	2935.7	3010.2	3038.1
57.5°	34390.4	25816.1	8872.2	4189.4	4056.0	3575.0	2644.0	2836.4	2979.1	2997.8
60°	33968.4	24106.2	6532.4	3969.1	3872.9	3550.1	2616.1	2684.3	2910.9	2938.8
62.5°	30716.1	21238.8	4533.9	3798.4	3469.5	3441.5	2606.7	2445.4	2761.9	2830.2
65°	24689.6	16720.4	3202.6	3270.8	3041.2	3205.7	2557.1	2197.1	2581.9	2675.0
67.5°	17912.1	11314.5	2311.9	2650.2	2755.7	2824.0	2445.4	2017.1	2377.1	2501.2
70°	11494.5	6110.3	1623.0	1750.2	2321.2	2398.8	2253.0	1855.8	2169.2	2311.9
72.5°	8170.9	3609.1	1166.8	1225.8	1865.1	1998.5	1983.0	1675.8	1927.1	2100.9
75°	5638.6	1989.2	788.2	875.1	1353.0	1623.0	1529.9	1439.9	1632.3	1809.2
77.5°	3534.6	890.6	471.7	608.2	887.5	1275.4	1048.9	1114.1	1272.3	1436.8
80°	1967.5	344.5	263.8	403.4	484.1	927.9	580.3	716.9	937.2	1055.1
82.5°	428.3	43.4	117.9	173.8	189.3	540.0	307.2	415.8	589.6	580.3
85°	0.0	0.0	21.7	24.8	12.4	232.7	111.7	136.5	192.4	180.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2
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°
6237.6	0°	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6
5610.7	2.5°	5585.9	5433.8	5322.1	5266.2	5219.7	5263.1	5288.0	5288.0	5393.5	5455.5
5170.0	5°	5061.4	4788.3	4580.4	4440.8	4357.0	4384.9	4415.9	4450.1	4583.5	4673.5
4909.4	7.5°	4698.3	4279.4	3962.9	3767.4	3665.0	3680.5	3702.2	3730.1	3860.5	3950.5
4946.6	10°	4630.1	4028.0	3581.2	3323.6	3199.5	3177.7	3165.3	3156.0	3233.6	3301.9
5368.7	12.5°	4909.4	4040.5	3416.7	3103.3	2951.2	2886.0	2811.6	2752.6	2765.0	2808.5
6007.9	15°	5409.0	4198.7	3363.9	2988.4	2799.1	2690.5	2603.6	2532.3	2516.8	2532.3
6566.5	17.5°	5980.0	4412.8	3357.7	2889.1	2653.3	2541.6	2470.2	2405.0	2383.3	2386.4
6879.9	20°	6358.6	4583.5	3339.1	2777.4	2513.6	2414.3	2352.3	2287.1	2265.4	2271.6
6793.1	22.5°	6395.8	4673.5	3311.2	2653.3	2374.0	2290.2	2228.1	2169.2	2166.1	2166.1
6467.2	25°	6194.1	4673.5	3252.2	2541.6	2240.6	2166.1	2110.2	2038.8	2051.3	2057.5
6097.9	27.5°	5880.7	4561.8	3140.5	2451.6	2125.7	2048.2	1992.3	1927.1	1942.6	1952.0
5753.5	30°	5570.4	4419.1	3007.1	2349.2	2017.1	1927.1	1886.8	1830.9	1837.1	1849.5
5412.1	32.5°	5281.8	4267.0	2848.8	2265.4	1908.5	1818.5	1787.5	1725.4	1734.7	1747.1
5076.9	35°	4996.3	4099.4	2662.6	2166.1	1809.2	1719.2	1694.4	1623.0	1629.2	1647.8
4741.8	37.5°	4689.0	3922.5	2510.5	2066.8	1713.0	1619.9	1595.1	1520.6	1526.8	1548.5
4394.2	40°	4366.3	3748.7	2361.6	1961.3	1610.6	1517.5	1495.8	1415.1	1421.3	1446.1
4052.9	42.5°	4040.5	3559.4	2246.8	1824.7	1505.1	1405.8	1384.1	1309.6	1318.9	1346.8
3755.0	45°	3739.4	3332.9	2172.3	1672.7	1405.8	1294.1	1272.3	1204.1	1222.7	1253.7
3503.6	47.5°	3481.9	3100.2	2141.3	1545.4	1300.3	1179.2	1160.6	1104.8	1135.8	1169.9
3289.5	50°	3261.5	2876.7	2100.9	1415.1	1201.0	1079.9	1061.3	1024.1	1064.4	1098.6
3143.6	52.5°	3103.3	2622.3	2014.0	1297.2	1114.1	996.1	989.9	971.3	1008.6	1039.6
3035.0	55°	2966.7	2358.5	1874.4	1194.8	1036.5	924.8	931.0	921.7	952.7	977.5
2969.8	57.5°	2842.6	2128.8	1697.5	1114.1	952.7	862.7	881.3	868.9	884.4	899.9
2901.6	60°	2693.6	1896.1	1486.5	1024.1	853.4	800.6	822.4	788.2	785.1	791.3
2777.4	62.5°	2473.3	1582.7	1266.1	912.4	766.5	732.4	741.7	676.5	626.9	626.9
2594.3	65°	2166.1	1272.3	1061.3	788.2	667.2	639.3	633.1	540.0	471.7	465.5
2395.7	67.5°	1809.2	1045.8	881.3	664.1	555.5	536.9	543.1	474.8	406.5	400.3
2197.1	70°	1474.1	865.8	710.6	530.7	428.3	446.9	474.8	406.5	341.4	332.0
1964.4	72.5°	1197.9	688.9	555.5	406.5	316.5	369.3	403.4	332.0	270.0	263.8
1675.8	75°	924.8	505.8	397.2	276.2	229.6	285.5	316.5	242.1	192.4	183.1
1297.2	77.5°	617.6	313.4	223.4	173.8	136.5	195.5	211.0	127.2	111.7	108.6
943.4	80°	375.5	145.9	96.2	83.8	46.5	71.4	83.8	52.8	59.0	62.1
502.7	82.5°	189.3	40.3	15.5	3.1	0.0	0.0	24.8	12.4	24.8	31.0
136.5	85°	15.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	15.5
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°
6237.6	0°	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6
5480.4	2.5°	5654.2	5784.5	5908.6	6107.2	6312.0	6513.8	6718.6	6917.2	6988.6	7041.3
4732.5	5°	5002.5	5247.6	5533.1	5927.2	6349.3	6783.7	7224.4	7627.8	7810.9	7935.1
4028.0	7.5°	4329.1	4648.7	5058.3	5651.1	6312.0	7004.1	7696.1	8332.3	8627.1	8866.0
3363.9	10°	3661.9	4009.4	4527.7	5204.2	6097.9	7091.0	8046.8	8921.9	9303.6	9604.6
2886.0	12.5°	3075.3	3401.2	3944.3	4692.1	5762.8	7022.7	8248.5	9300.5	9750.5	10088.7
2544.7	15°	2662.6	2892.2	3373.3	4180.1	5365.5	6802.4	8260.9	9480.5	9973.9	10327.7
2401.9	17.5°	2433.0	2510.5	2824.0	3658.8	4924.9	6513.8	8146.1	9542.5	10070.1	10399.1
2274.7	20°	2308.8	2321.2	2408.1	2982.2	4360.1	6243.8	8037.5	9604.6	10160.1	10436.3
2184.7	22.5°	2209.5	2209.5	2231.2	2439.2	3630.8	5921.0	8003.3	9713.2	10284.2	10454.9
2082.3	25°	2119.5	2119.5	2125.7	2181.6	2876.7	5427.6	7981.6	9880.8	10454.9	10501.5
1979.9	27.5°	2026.4	2029.5	2029.5	2060.6	2318.1	4757.3	7888.5	10098.0	10659.7	10563.5
1880.6	30°	1933.3	1939.5	1939.5	1961.3	2051.3	3972.2	7705.4	10358.7	10926.6	10644.2
1781.3	32.5°	1840.2	1846.4	1846.4	1865.1	1930.2	3171.5	7475.8	10597.7	11196.6	10678.3
1685.1	35°	1744.0	1753.3	1747.1	1772.0	1840.2	2523.0	7184.1	10836.6	11488.3	10787.0
1592.0	37.5°	1647.8	1654.0	1650.9	1675.8	1753.3	2178.5	6845.8	11016.6	11885.5	11029.0
1492.7	40°	1551.6	1548.5	1548.5	1576.5	1660.2	2079.2	6420.7	11302.1	12456.5	11454.2
1393.4	42.5°	1452.3	1452.3	1446.1	1477.2	1579.6	2004.7	6014.1	11814.1	13288.2	12130.7
1300.3	45°	1362.3	1359.2	1346.8	1374.7	1502.0	1874.4	5871.4	12769.9	14517.1	13226.1
1207.2	47.5°	1275.4	1272.3	1241.3	1266.1	1408.9	1756.4	6405.1	14334.0	16220.8	14836.7
1132.7	50°	1197.9	1201.0	1142.0	1163.7	1315.8	1666.5	7562.7	16363.5	18483.1	17005.9
1070.6	52.5°	1126.5	1126.5	1048.9	1061.3	1201.0	1585.8	8664.3	18563.7	21468.4	20031.6
1005.5	55°	1055.1	1048.9	962.0	968.2	1086.1	1470.9	8828.8	20711.2	25539.9	24584.1
934.1	57.5°	974.4	962.0	881.3	881.3	980.6	1387.2	7652.7	22362.1	30592.0	31274.7
800.6	60°	875.1	865.8	813.1	797.5	896.8	1461.6	5399.7	22554.5	33850.4	40171.8
636.2	62.5°	747.9	760.3	732.4	710.6	816.2	1517.5	3199.5	21006.0	33062.2	43002.0
493.4	65°	589.6	639.3	633.1	617.6	896.8	1278.5	1889.9	18033.1	30644.8	40718.0
431.4	67.5°	502.7	536.9	527.6	527.6	940.3	971.3	1188.6	14088.8	27318.1	38008.8
360.0	70°	428.3	462.4	428.3	428.3	710.6	589.6	822.4	9837.4	23727.6	35011.1
288.6	72.5°	353.8	387.9	350.7	325.8	567.9	440.7	602.0	6147.6	20320.2	31889.2
204.8	75°	270.0	310.3	282.4	251.4	375.5	328.9	456.2	3571.9	16835.2	27283.9
124.1	77.5°	170.7	223.4	211.0	176.9	276.2	239.0	328.9	2125.7	12990.3	21319.4
74.5	80°	105.5	114.8	117.9	111.7	158.3	161.4	223.4	1210.3	8890.9	14858.4
46.5	82.5°	68.3	68.3	52.8	59.0	77.6	93.1	127.2	456.2	5225.9	9046.0
27.9	85°	49.7	43.4	27.9	27.9	37.2	46.5	49.7	139.6	2119.5	3571.9
12.4	87.5°	24.8	21.7	9.3	12.4	18.6	15.5	12.4	6.2	533.8	1142.0
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):

285°		295°	305°	315°	325°	335°	345°	355°	360°
6237.6	0°	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6
7159.2	2.5°	7221.3	7317.5	7323.7	7323.7	7239.9	7236.8	7066.1	7047.5
8214.3	5°	8503.0	8565.0	8580.5	8549.5	8381.9	8257.8	7925.7	7854.4
9291.2	7.5°	9676.0	9800.1	9800.1	9725.6	9452.6	9198.1	8717.1	8537.1
10181.8	10°	10613.2	10755.9	10724.9	10572.8	10228.4	9877.7	9294.3	9058.4
10721.8	12.5°	11069.4	11215.2	11134.5	10960.7	10625.6	10256.3	9641.9	9375.0
10877.0	15°	11060.0	11019.7	10935.9	10914.2	10752.8	10473.5	9899.4	9607.7
10780.8	17.5°	10665.9	10324.6	10259.4	10476.6	10681.4	10613.2	10122.9	9849.8
10551.1	20°	10042.2	9446.3	9387.4	9803.2	10386.6	10684.6	10330.8	10079.4
10219.1	22.5°	9384.3	8741.9	8605.4	9064.6	9942.9	10706.3	10594.6	10343.2
9852.9	25°	8760.5	8115.0	7978.5	8406.8	9449.5	10669.0	10880.1	10665.9
9502.2	27.5°	8239.2	7615.4	7488.2	7916.4	8974.7	10563.5	11165.6	11013.5
9154.6	30°	7835.8	7258.5	7165.4	7578.2	8565.0	10433.2	11528.6	11444.9
8831.9	32.5°	7599.9	7177.9	7212.0	7550.3	8344.7	10290.4	11876.2	11916.5
8673.6	35°	7832.6	7851.3	8149.2	8288.8	8549.5	10268.7	12347.9	12506.2
8862.9	37.5°	8990.2	9635.6	10253.2	10138.4	9551.9	10520.1	13052.3	13347.2
9688.4	40°	10960.7	12285.8	13288.2	12850.6	11373.5	11289.7	14067.1	14507.8
11153.1	42.5°	13368.9	15615.6	17266.6	16093.5	13722.6	12636.5	15516.3	16078.0
12925.1	45°	15910.5	19721.3	22321.8	19882.6	16227.0	14523.3	17710.3	18151.0
14585.4	47.5°	18588.6	24711.3	28075.3	24084.5	18548.2	16670.8	20701.9	20804.3
16158.7	50°	21518.1	30182.4	33940.4	28283.2	20788.8	19131.6	24357.5	24239.6
17992.7	52.5°	24307.9	35808.6	39681.5	32500.5	22756.3	22185.3	28599.7	28357.7
20500.2	55°	26970.5	41431.7	45456.7	36553.4	24612.0	26219.5	33639.4	32174.7
24115.5	57.5°	30058.3	46487.0	51408.7	40624.9	27206.3	31457.8	39275.0	34390.4
31038.9	60°	34623.2	52231.1	58139.7	46204.6	32140.5	36963.0	41295.2	33968.4
39330.8	62.5°	40451.1	57512.9	63033.6	51672.5	37096.5	37999.5	38319.1	30716.1
37639.5	65°	41583.8	58850.4	63309.8	53134.1	36457.2	32233.6	31284.0	24689.6
33620.8	67.5°	38579.8	56432.9	59449.3	50412.6	32249.2	24909.9	23476.2	17912.1
30983.0	70°	35209.7	51824.6	52721.4	45785.6	28363.9	18321.7	15854.6	11494.5
29176.9	72.5°	31755.7	45677.0	43821.2	39762.2	24928.5	13340.9	11435.5	8170.9
26604.3	75°	27653.2	37593.0	34517.6	33037.4	20639.8	10470.4	8273.3	5638.6
22883.5	77.5°	22144.9	26461.6	25639.2	25608.2	15510.1	7649.6	5520.7	3534.6
17877.9	80°	15621.8	17173.5	16754.5	19286.8	10405.3	5548.6	3323.6	1967.5
12444.1	82.5°	7562.7	9496.0	9747.4	11485.2	5061.4	3264.6	766.5	428.3
4865.9	85°	2960.5	4580.4	3863.6	4360.1	1421.3	909.3	18.6	0.0
800.6	87.5°	332.0	530.7	487.2	384.8	173.8	37.2	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)