

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: P949690

Luminaire Tested: **GALN-SB4B-840-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949690
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-SB4B-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 450mA 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: 16475 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

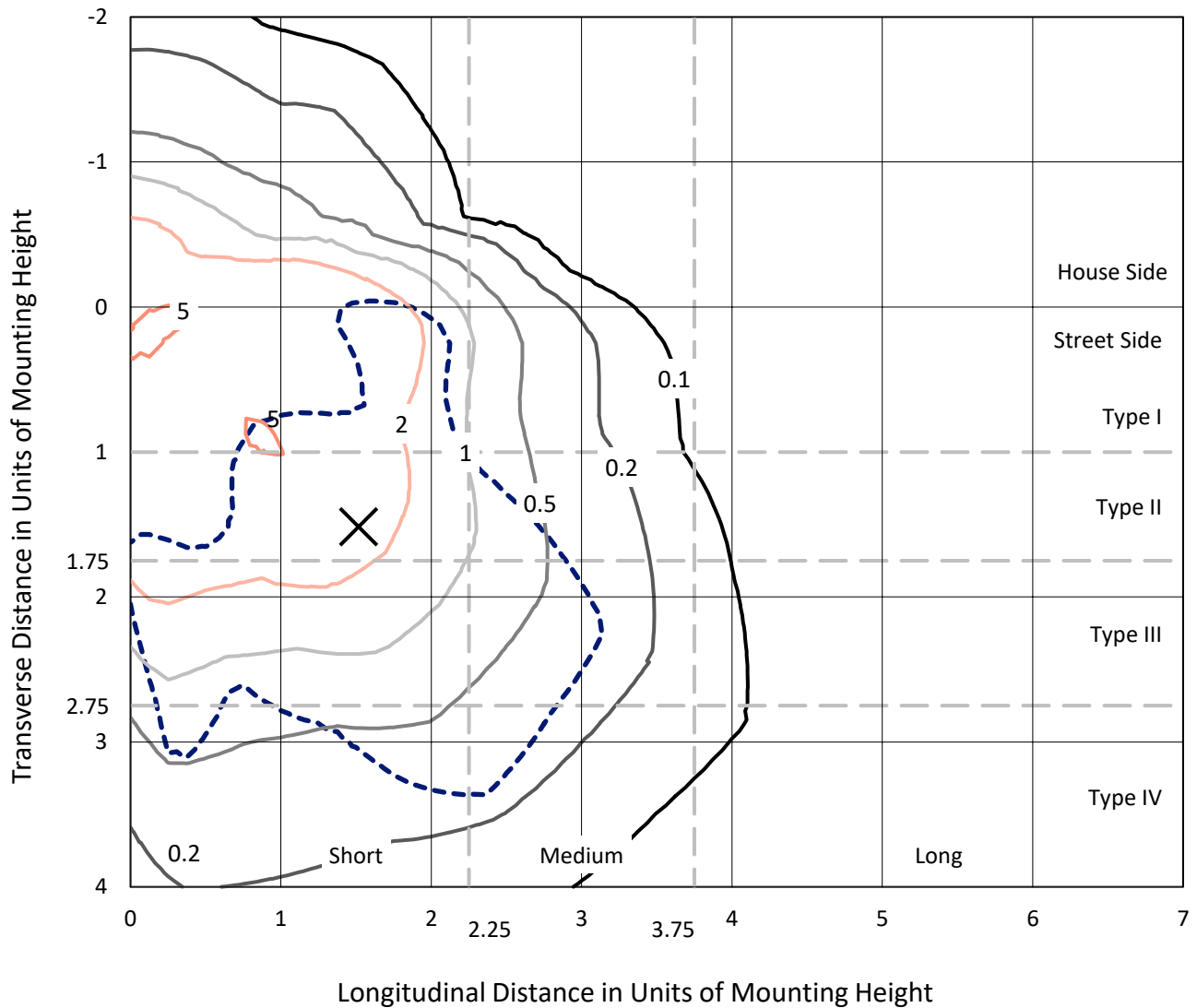
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

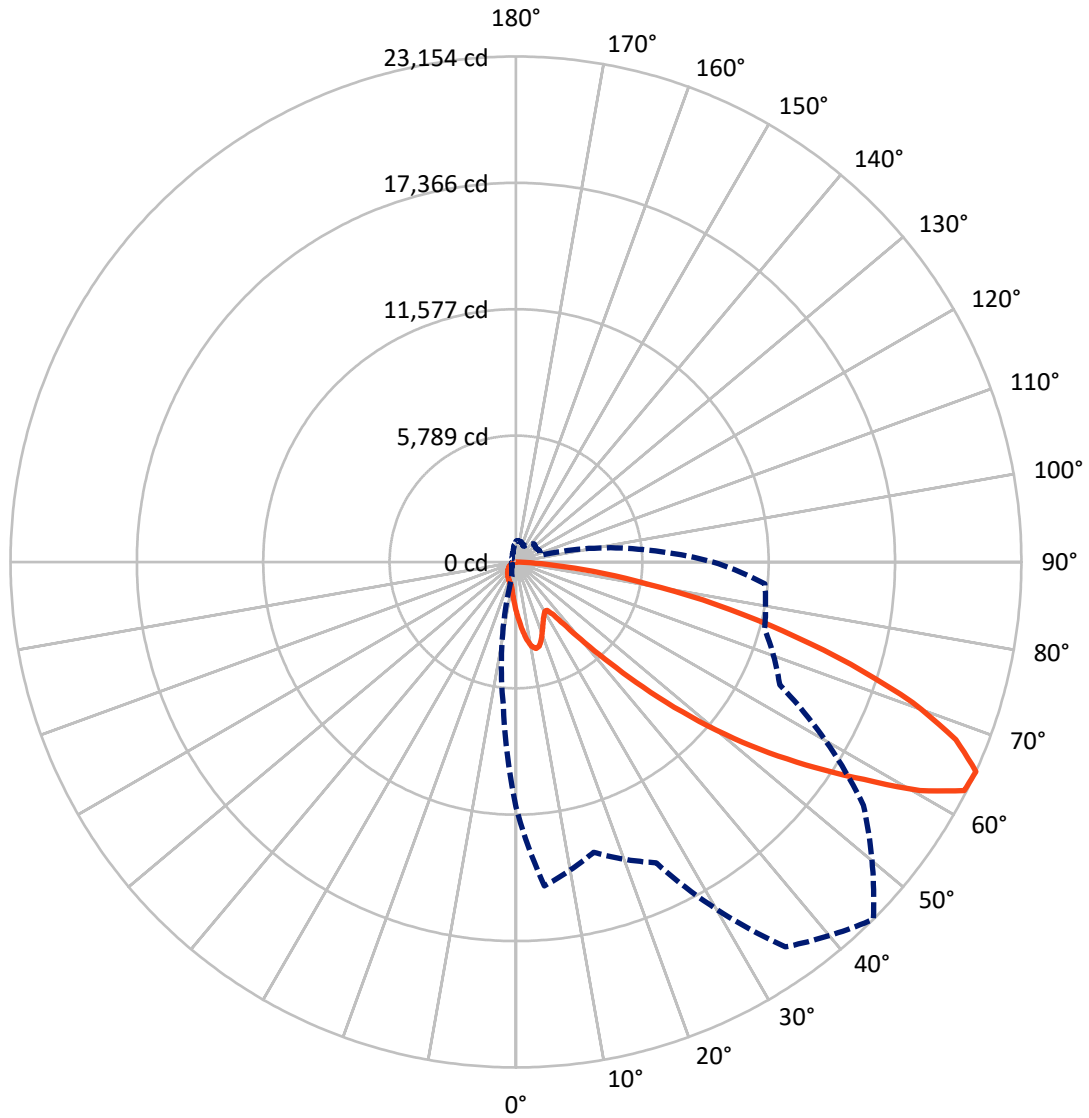
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	3274.7	0.0	3274.7
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	13200.3	0.0	13200.3
	% Fixture	80.1	0.0	80.1
Total	Lumens	16475.0	0.0	16475.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.6	1.4
10°-20°	673.3	4.1
20°-30°	991.9	6.0
30°-40°	1274.3	7.7
40°-50°	2060.9	12.5
50°-60°	3614.0	21.9
60°-70°	4522.1	27.4
70°-80°	2642.5	16.0
80°-90°	471.5	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°	16475.0	100.0
0°-180°	16475.0	100.0

Coefficient of Utilization

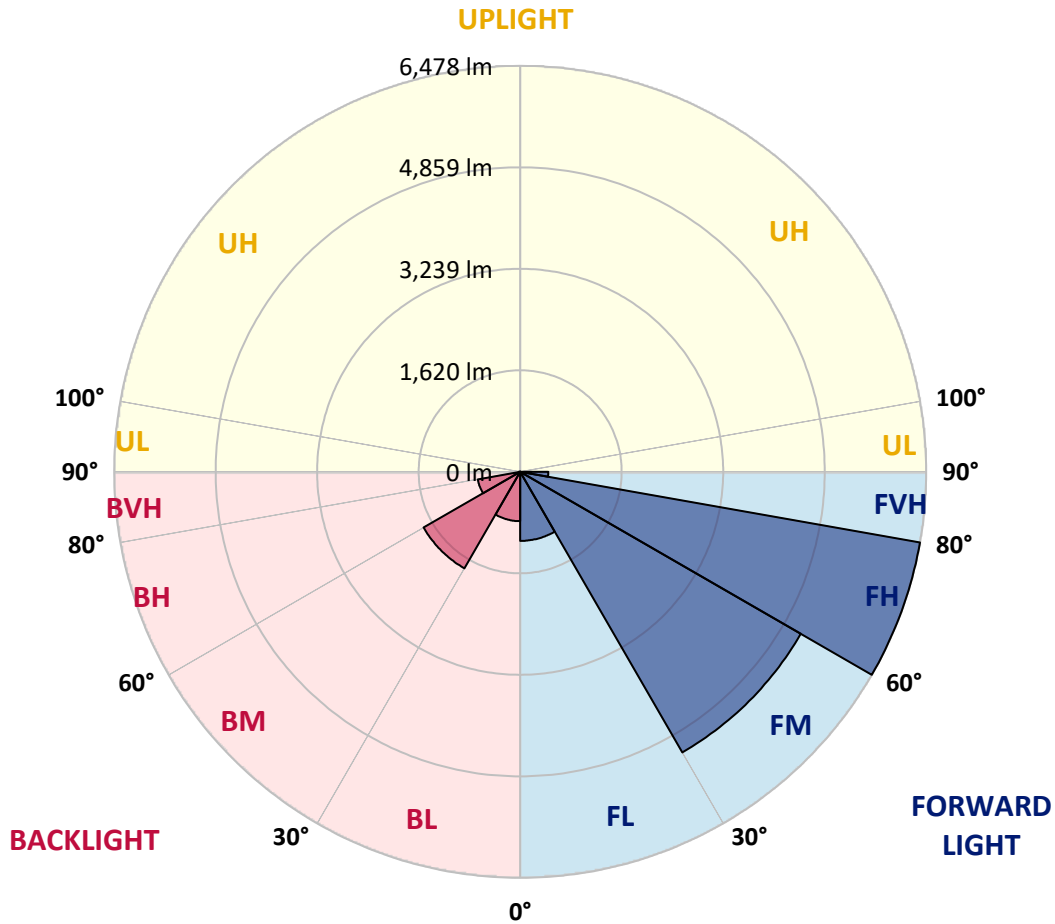


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1102.4	6.7			
FM (30°-60°)	5170.1	31.4			
FH (60°-80°)	6478.5	39.3			G3/7500
FVH (80°-90°)	449.4	2.7			G3/500
BL (0°-30°)	787.4	4.8	B2/1000		
BM (30°-60°)	1779.1	10.8	B2/2500		
BH (60°-80°)	686.1	4.2	B2/1000		G2/1000
BVH (80°-90°)	22.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3
2.5°	2555.9	2575.2	2618.3	2641.0	2676.2	2678.5	2678.5	2647.9	2646.7	2584.3
5°	2856.7	2902.1	3004.2	3109.8	3132.5	3138.2	3126.8	3065.5	3020.1	2898.7
7.5°	3155.2	3242.6	3398.1	3538.8	3584.2	3584.2	3557.0	3457.1	3364.0	3188.1
10°	3402.6	3512.7	3723.8	3881.5	3933.8	3922.4	3866.8	3740.8	3612.6	3399.2
12.5°	3566.0	3689.7	3921.3	4048.4	4101.7	4072.2	4008.7	3886.1	3751.0	3526.3
15°	3647.7	3777.1	3978.0	4045.0	4030.2	3999.6	3991.6	3932.6	3830.5	3620.5
17.5°	3682.9	3803.2	3942.8	3900.8	3776.0	3752.2	3831.6	3906.5	3881.5	3702.2
20°	3715.8	3816.9	3858.8	3672.7	3454.8	3433.2	3585.3	3798.7	3907.7	3778.3
22.5°	3761.2	3823.7	3737.4	3432.1	3197.2	3147.2	3315.2	3636.4	3915.6	3874.7
25°	3823.7	3840.7	3603.5	3204.0	2967.9	2918.0	3074.6	3455.9	3902.0	3979.2
27.5°	3898.6	3863.4	3475.2	3013.3	2785.2	2738.6	2895.3	3282.3	3863.4	4083.6
30°	3996.2	3892.9	3348.1	2865.8	2654.7	2620.6	2771.6	3132.5	3815.7	4216.4
32.5°	4094.9	3905.4	3230.1	2779.5	2625.2	2637.6	2761.3	3051.9	3763.5	4343.5
35°	4201.6	3945.1	3172.2	2864.6	2871.4	2980.4	3031.5	3126.8	3755.6	4516.0
37.5°	4346.9	4033.6	3241.4	3288.0	3524.0	3749.9	3707.9	3493.4	3847.5	4773.6
40°	4555.7	4189.1	3543.3	4008.7	4493.3	4859.9	4699.9	4159.6	4129.0	5144.8
42.5°	4859.9	4436.5	4079.0	4889.4	5711.1	6314.9	5885.9	5018.8	4621.5	5674.8
45°	5309.3	4837.2	4727.1	5818.9	7212.6	8163.7	7271.7	5934.7	5311.6	6477.2
47.5°	5932.4	5426.2	5334.3	6798.4	9037.6	10267.9	8808.4	6783.6	6097.0	7571.3
50°	6759.8	6219.6	5909.7	7869.8	11038.6	12413.0	10344.0	7603.1	6997.0	8908.3
52.5°	7851.6	7326.1	6580.5	8890.1	13096.3	14512.7	11886.4	8322.6	8113.8	10459.7
55°	9340.7	8991.1	7497.5	9863.9	15152.8	16624.8	13368.6	9001.3	9589.2	12302.9
57.5°	11188.4	11438.1	8819.7	10993.2	17001.6	18801.7	14857.7	9950.2	11505.0	14364.0
60°	12380.1	14692.0	11351.8	12662.7	19102.4	21263.4	16898.4	11754.7	13518.5	15102.9
62.5°	12091.8	15727.1	14384.4	14794.1	21034.1	23053.2	18898.1	13567.3	13897.5	14014.4
65°	11207.7	14891.7	13765.9	15208.4	21523.3	23154.2	19432.7	13333.5	11788.8	11441.5
67.5°	9991.0	13900.9	12296.1	14109.8	20639.2	21742.3	18437.4	11794.5	9110.3	8585.9
70°	8677.9	12804.6	11331.4	12877.2	18953.8	19281.8	16745.1	10373.5	6700.8	5798.5
72.5°	7431.7	11662.8	10670.9	11614.0	16705.4	16026.7	14542.2	9117.1	4879.2	4182.3
75°	6157.1	9978.5	9730.0	10113.6	13748.8	12624.1	12082.7	7548.6	3829.3	3025.8
77.5°	4750.9	7797.1	8369.2	8099.0	9677.8	9377.0	9365.7	5672.5	2797.7	2019.1
80°	3251.6	5434.2	6538.5	5713.4	6280.8	6127.6	7053.7	3805.5	2029.3	1215.5
82.5°	1911.3	3308.4	4551.2	2765.9	3473.0	3564.9	4200.5	1851.1	1194.0	280.3
85°	775.2	1306.3	1779.6	1082.7	1675.2	1413.0	1594.6	519.8	332.5	6.8
87.5°	195.2	417.7	292.8	121.4	194.1	178.2	140.7	63.6	13.6	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°
2281.3	0°	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3
2577.5	2.5°	2533.2	2507.1	2442.4	2377.7	2325.5	2255.2	2208.6	2153.0	2099.7	2052.0
2872.6	5°	2801.1	2714.8	2596.8	2489.0	2378.9	2272.2	2166.6	2055.4	1953.3	1890.8
3122.3	7.5°	3019.0	2866.9	2710.3	2572.9	2440.2	2315.3	2175.7	2040.6	1880.6	1795.5
3312.9	10°	3181.3	2981.5	2776.1	2618.3	2484.4	2363.0	2244.9	2108.7	1915.8	1809.1
3428.7	12.5°	3288.0	3050.8	2810.1	2629.7	2479.9	2385.7	2333.5	2280.1	2088.3	1963.5
3513.8	15°	3361.7	3099.6	2834.0	2603.6	2419.7	2350.5	2402.7	2464.0	2341.4	2197.3
3602.3	17.5°	3442.3	3163.1	2844.2	2533.2	2302.8	2273.3	2408.4	2550.2	2544.6	2401.6
3686.3	20°	3527.4	3218.7	2837.4	2419.7	2161.0	2187.1	2359.6	2524.1	2593.4	2516.2
3782.8	22.5°	3614.8	3272.1	2811.3	2272.2	2028.2	2109.9	2282.4	2426.5	2508.3	2484.4
3900.8	25°	3724.9	3347.0	2772.7	2113.3	1918.1	2031.6	2192.7	2309.6	2366.4	2365.2
4028.0	27.5°	3856.6	3446.9	2752.3	1985.0	1839.8	1943.0	2086.0	2190.5	2230.2	2230.2
4185.7	30°	4009.8	3564.9	2729.6	1901.1	1794.4	1851.1	1962.3	2064.5	2104.2	2104.2
4358.2	32.5°	4180.0	3678.4	2675.1	1850.0	1760.3	1761.5	1831.8	1924.9	1972.6	1979.4
4573.9	35°	4384.3	3799.8	2555.9	1809.1	1720.6	1674.1	1708.1	1785.3	1842.0	1856.8
4881.4	37.5°	4652.2	3948.5	2385.7	1749.0	1659.3	1582.1	1590.1	1649.1	1711.5	1734.2
5305.9	40°	5012.0	4123.3	2208.6	1662.7	1573.0	1481.1	1477.7	1520.8	1582.1	1607.1
5880.2	42.5°	5487.5	4333.3	2039.5	1579.9	1468.6	1374.4	1368.8	1402.8	1456.1	1482.3
6638.4	45°	6095.8	4590.9	1894.2	1515.2	1366.5	1273.4	1271.2	1299.5	1346.1	1373.3
7608.7	47.5°	6941.4	4848.5	1795.5	1481.1	1285.9	1190.6	1195.1	1220.1	1262.1	1281.4
8865.1	50°	8043.4	4926.8	1745.6	1481.1	1242.8	1116.8	1139.5	1159.9	1191.7	1203.1
10371.2	52.5°	9101.2	4668.1	1700.2	1490.2	1248.5	1054.4	1103.2	1117.9	1145.2	1149.7
11767.2	55°	9619.9	4013.2	1637.7	1492.5	1283.6	1001.0	1073.7	1100.9	1111.1	1110.0
12577.6	57.5°	9441.7	3244.8	1532.2	1483.4	1307.5	967.0	1037.3	1089.6	1096.4	1086.2
12423.2	60°	8816.3	2389.1	1451.6	1416.4	1298.4	956.8	981.7	1064.6	1074.8	1061.2
11233.8	62.5°	7767.6	1658.2	1389.2	1268.9	1258.7	953.4	894.3	1010.1	1035.1	1015.8
9029.7	65°	6115.1	1171.3	1196.2	1112.3	1172.4	935.2	803.5	944.3	978.3	948.8
6551.0	67.5°	4138.0	845.5	969.3	1007.8	1032.8	894.3	737.7	869.4	914.8	876.2
4203.9	70°	2234.7	593.6	640.1	848.9	877.3	824.0	678.7	793.3	845.5	803.5
2988.3	72.5°	1320.0	426.7	448.3	682.1	730.9	725.2	612.9	704.8	768.4	718.4
2062.2	75°	727.5	288.3	320.1	494.8	593.6	559.5	526.6	597.0	661.7	612.9
1292.7	77.5°	325.7	172.5	222.5	324.6	466.5	383.6	407.4	465.3	525.5	474.4
719.6	80°	126.0	96.5	147.5	177.1	339.4	212.2	262.2	342.8	385.9	345.0
156.6	82.5°	15.9	43.1	63.6	69.2	197.5	112.4	152.1	215.6	212.2	183.9
0.0	85°	0.0	7.9	9.1	4.5	85.1	40.9	49.9	70.4	65.8	49.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	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°
2281.3	0°	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3
2042.9	2.5°	1987.3	1946.4	1926.0	1909.0	1924.9	1934.0	1934.0	1972.6	1995.3	2004.3
1851.1	5°	1751.2	1675.2	1624.1	1593.5	1603.7	1615.0	1627.5	1676.3	1709.2	1730.8
1718.3	7.5°	1565.1	1449.3	1377.8	1340.4	1346.1	1354.0	1364.2	1411.9	1444.8	1473.2
1693.4	10°	1473.2	1309.7	1215.5	1170.1	1162.2	1157.7	1154.2	1182.6	1207.6	1230.3
1795.5	12.5°	1477.7	1249.6	1135.0	1079.3	1055.5	1028.3	1006.7	1011.2	1027.1	1055.5
1978.2	15°	1535.6	1230.3	1093.0	1023.7	984.0	952.2	926.1	920.4	926.1	930.7
2187.1	17.5°	1613.9	1228.0	1056.6	970.4	929.5	903.4	879.6	871.6	872.8	878.5
2325.5	20°	1676.3	1221.2	1015.8	919.3	883.0	860.3	836.5	828.5	830.8	831.9
2339.1	22.5°	1709.2	1211.0	970.4	868.2	837.6	814.9	793.3	792.2	792.2	799.0
2265.4	25°	1709.2	1189.4	929.5	819.4	792.2	771.8	745.7	750.2	752.5	761.6
2150.7	27.5°	1668.4	1148.6	896.6	777.4	749.1	728.6	704.8	710.5	713.9	724.1
2037.2	30°	1616.2	1099.8	859.2	737.7	704.8	690.1	669.6	671.9	676.4	687.8
1931.7	32.5°	1560.6	1041.9	828.5	698.0	665.1	653.7	631.0	634.4	639.0	651.5
1827.3	35°	1499.3	973.8	792.2	661.7	628.8	619.7	593.6	595.9	602.7	616.3
1714.9	37.5°	1434.6	918.2	755.9	626.5	592.4	583.4	556.1	558.4	566.3	582.2
1596.9	40°	1371.0	863.7	717.3	589.0	555.0	547.0	517.5	519.8	528.9	545.9
1477.7	42.5°	1301.8	821.7	667.4	550.5	514.1	506.2	479.0	482.4	492.6	509.6
1367.6	45°	1218.9	794.5	611.7	514.1	473.3	465.3	440.4	447.2	458.5	475.5
1273.4	47.5°	1133.8	783.1	565.2	475.5	431.3	424.5	404.0	415.4	427.9	441.5
1192.8	50°	1052.1	768.4	517.5	439.2	395.0	388.2	374.5	389.3	401.8	414.3
1135.0	52.5°	959.0	736.6	474.4	407.4	364.3	362.1	355.2	368.9	380.2	391.6
1085.0	55°	862.6	685.5	437.0	379.1	338.2	340.5	337.1	348.4	357.5	367.7
1039.6	57.5°	778.6	620.8	407.4	348.4	315.5	322.3	317.8	323.5	329.1	341.6
985.1	60°	693.5	543.6	374.5	312.1	292.8	300.8	288.3	287.1	289.4	292.8
904.6	62.5°	578.8	463.1	333.7	280.3	267.8	271.3	247.4	229.3	229.3	232.7
792.2	65°	465.3	388.2	288.3	244.0	233.8	231.5	197.5	172.5	170.2	180.5
661.7	67.5°	382.5	322.3	242.9	203.2	196.3	198.6	173.6	148.7	146.4	157.8
539.1	70°	316.7	259.9	194.1	156.6	163.4	173.6	148.7	124.8	121.4	131.7
438.1	72.5°	252.0	203.2	148.7	115.8	135.1	147.5	121.4	98.7	96.5	105.6
338.2	75°	185.0	145.3	101.0	84.0	104.4	115.8	88.5	70.4	67.0	74.9
225.9	77.5°	114.6	81.7	63.6	49.9	71.5	77.2	46.5	40.9	39.7	45.4
137.3	80°	53.3	35.2	30.6	17.0	26.1	30.6	19.3	21.6	22.7	27.2
69.2	82.5°	14.8	5.7	1.1	0.0	0.0	9.1	4.5	9.1	11.3	17.0
5.7	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	5.7	10.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
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°
2281.3	0°	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3
2067.9	2.5°	2115.6	2161.0	2233.6	2308.5	2382.3	2457.2	2529.8	2555.9
1829.5	5°	1919.2	2023.6	2167.8	2322.1	2481.0	2642.2	2789.7	2856.7
1583.3	7.5°	1700.2	1850.0	2066.8	2308.5	2561.6	2814.7	3047.4	3155.2
1339.2	10°	1466.4	1655.9	1903.3	2230.2	2593.4	2942.9	3263.0	3402.6
1124.7	12.5°	1243.9	1442.5	1716.1	2107.6	2568.4	3016.7	3401.5	3566.0
973.8	15°	1057.8	1233.7	1528.8	1962.3	2487.8	3021.3	3467.3	3647.7
889.8	17.5°	918.2	1032.8	1338.1	1801.2	2382.3	2979.3	3490.0	3682.9
844.4	20°	848.9	880.7	1090.7	1594.6	2283.5	2939.5	3512.7	3715.8
808.1	22.5°	808.1	816.0	892.1	1327.9	2165.5	2927.0	3552.4	3761.2
775.2	25°	775.2	777.4	797.9	1052.1	1985.0	2919.1	3613.7	3823.7
741.1	27.5°	742.3	742.3	753.6	847.8	1739.9	2885.1	3693.1	3898.6
707.1	30°	709.3	709.3	717.3	750.2	1452.7	2818.1	3788.5	3996.2
673.0	32.5°	675.3	675.3	682.1	705.9	1159.9	2734.1	3875.9	4094.9
637.8	35°	641.2	639.0	648.1	673.0	922.7	2627.4	3963.3	4201.6
602.7	37.5°	604.9	603.8	612.9	641.2	796.7	2503.7	4029.1	4346.9
567.5	40°	566.3	566.3	576.6	607.2	760.4	2348.2	4133.5	4555.7
531.2	42.5°	531.2	528.9	540.2	577.7	733.2	2199.5	4320.8	4859.9
498.2	45°	497.1	492.6	502.8	549.3	685.5	2147.3	4670.3	5309.3
466.5	47.5°	465.3	454.0	463.1	515.3	642.4	2342.5	5242.4	5932.4
438.1	50°	439.2	417.7	425.6	481.2	609.5	2765.9	5984.6	6759.8
412.0	52.5°	412.0	383.6	388.2	439.2	580.0	3168.8	6789.3	7851.6
385.9	55°	383.6	351.8	354.1	397.2	538.0	3228.9	7574.7	9340.7
356.4	57.5°	351.8	322.3	322.3	358.6	507.3	2798.8	8178.5	11188.4
320.1	60°	316.7	297.4	291.7	328.0	534.6	1974.8	8248.9	12380.1
273.5	62.5°	278.1	267.8	259.9	298.5	555.0	1170.1	7682.5	12091.8
215.6	65°	233.8	231.5	225.9	328.0	467.6	691.2	6595.2	11207.7
183.9	67.5°	196.3	192.9	192.9	343.9	355.2	434.7	5152.7	9991.0
156.6	70°	169.1	156.6	156.6	259.9	215.6	300.8	3597.8	8677.9
129.4	72.5°	141.9	128.2	119.2	207.7	161.2	220.2	2248.3	7431.7
98.7	75°	113.5	103.3	91.9	137.3	120.3	166.8	1306.3	6157.1
62.4	77.5°	81.7	77.2	64.7	101.0	87.4	120.3	777.4	4750.9
38.6	80°	42.0	43.1	40.9	57.9	59.0	81.7	442.6	3251.6
25.0	82.5°	25.0	19.3	21.6	28.4	34.0	46.5	166.8	1911.3
18.2	85°	15.9	10.2	10.2	13.6	17.0	18.2	51.1	775.2
9.1	87.5°	7.9	3.4	4.5	6.8	5.7	4.5	2.3	195.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)