

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: P957147

Luminaire Tested: **GALN-SB9C-830-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957147
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-SB9C-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 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: 46778 lumens
Efficiency: N/A
Efficacy: 104.0 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

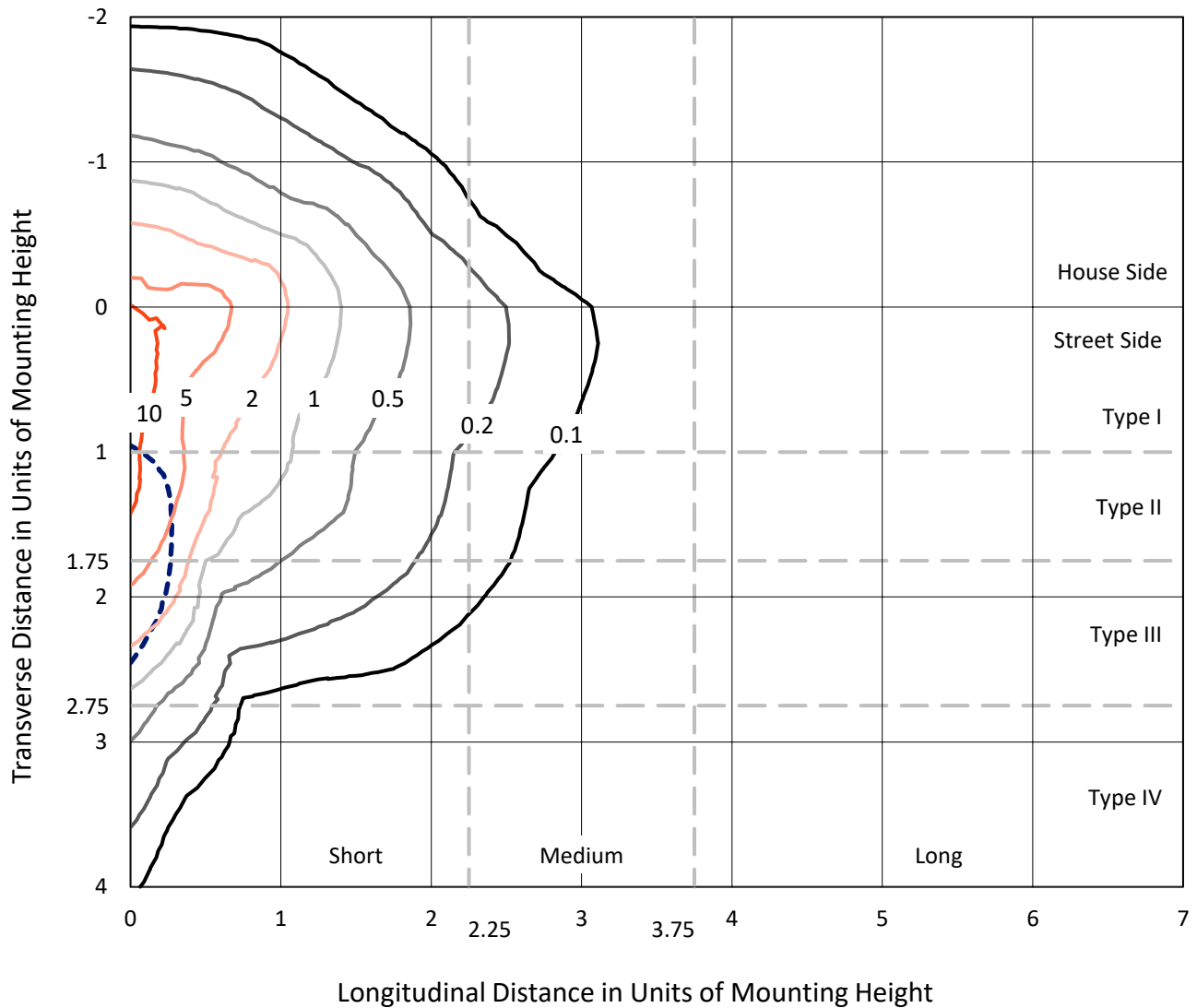
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

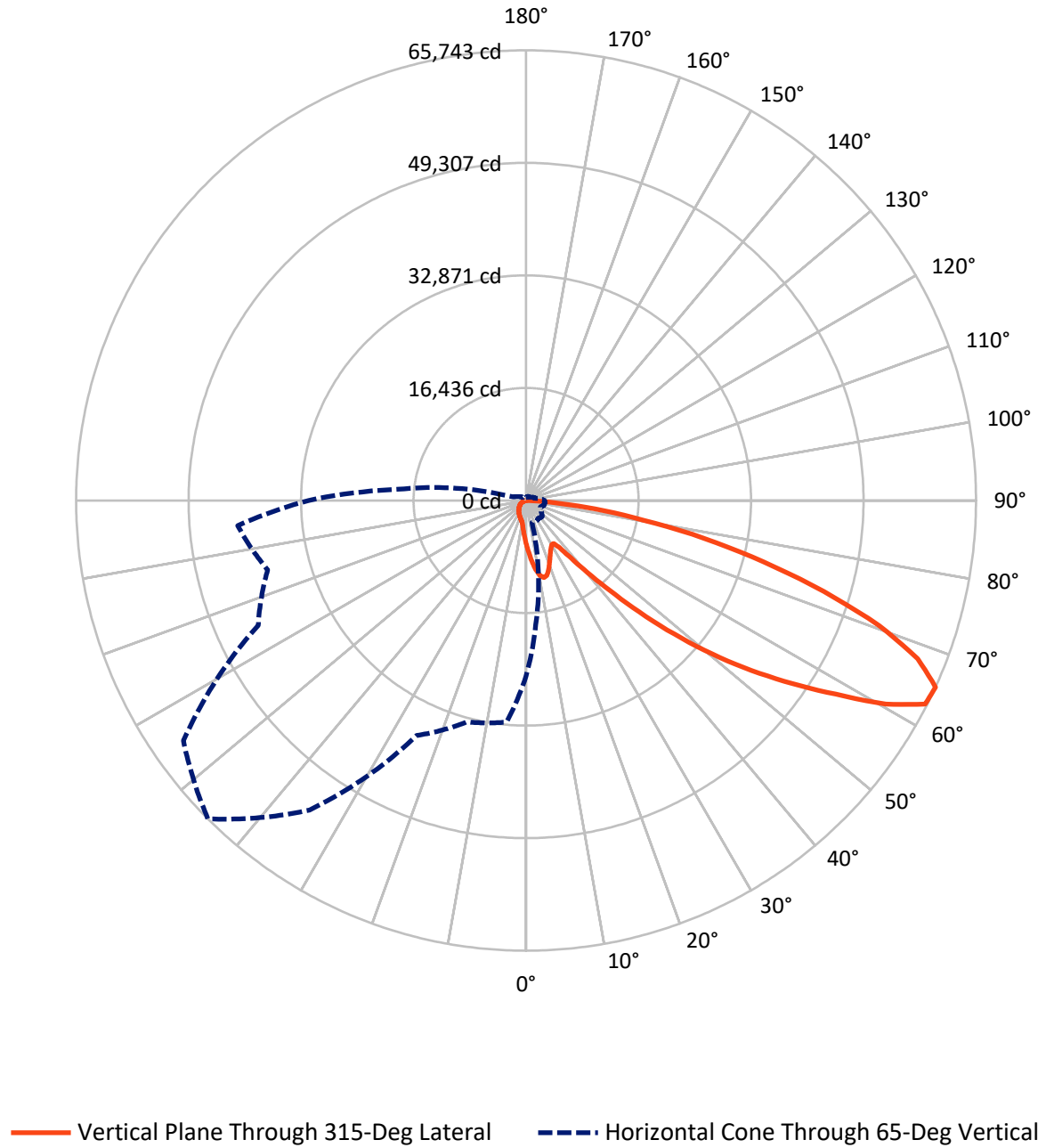
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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	6550.9	0.0	6550.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	40227.1	0.0	40227.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	46778.0	0.0	46778.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.7	1.4
10°-20°	1911.7	4.1
20°-30°	2816.3	6.0
30°-40°	3618.1	7.7
40°-50°	5851.6	12.5
50°-60°	10261.3	21.9
60°-70°	12839.7	27.4
70°-80°	7502.9	16.0
80°-90°	1338.6	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°	46778.0	100.0
0°-180°	46778.0	100.0

Coefficient of Utilization



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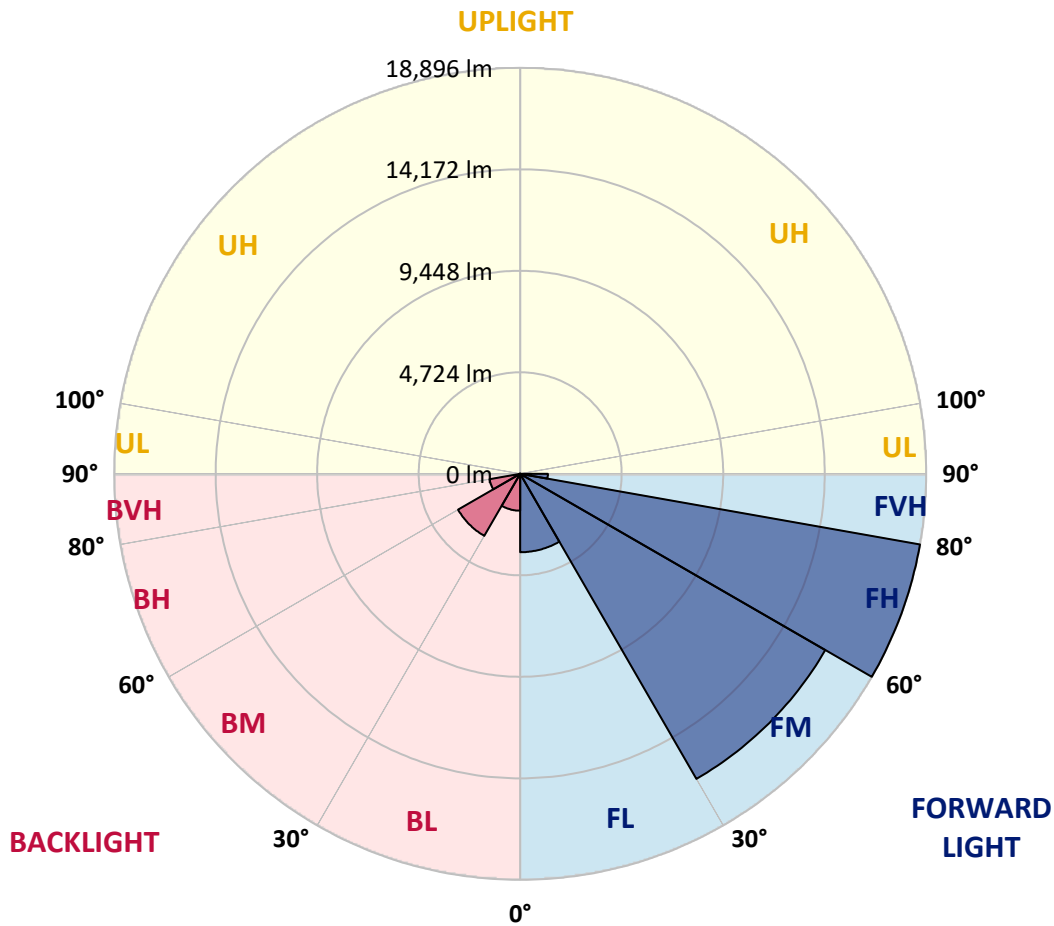
CATALOG NUMBER: GALN-SB9C-830-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3648.5	7.8			
FM (30°-60°)	16395.2	35.0			
FH (60°-80°)	18896.2	40.4			G5
FVH (80°-90°)	1287.2	2.8			G5
BL (0°-30°)	1717.1	3.7	B3/2500		
BM (30°-60°)	3335.9	7.1	B3/5000		
BH (60°-80°)	1446.5	3.1	B3/2500		G3/2500
BVH (80°-90°)	51.4	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°	6477.3	6477.3	6477.3	6477.3	6477.3	6477.3	6477.3	6477.3	6477.3	6477.3
2.5°	7318.3	7192.7	7118.5	6934.9	6751.2	6602.9	6403.1	6271.0	6113.1	5961.7
5°	8156.2	7953.2	7708.3	7373.1	7067.0	6754.4	6451.5	6151.8	5836.0	5545.9
7.5°	8865.1	8571.9	8140.1	7695.4	7305.4	6928.4	6573.9	6177.6	5794.1	5339.7
10°	9406.5	9032.7	8465.5	7882.3	7434.3	7054.1	6709.3	6374.1	5987.4	5439.6
12.5°	9735.2	9335.6	8662.1	7978.9	7466.6	7041.2	6773.7	6625.5	6474.0	5929.4
15°	9976.9	9545.1	8800.7	8046.6	7392.5	6870.4	6673.8	6822.1	6996.1	6648.0
17.5°	10228.3	9773.9	8981.2	8075.6	7192.7	6538.5	6454.7	6838.2	7241.0	7224.9
20°	10466.7	10015.6	9139.1	8056.3	6870.4	6135.7	6209.8	6699.6	7166.9	7363.4
22.5°	10740.6	10263.7	9290.5	7982.2	6451.5	5758.6	5990.7	6480.5	6889.7	7121.8
25°	11075.8	10576.3	9503.2	7872.6	6000.3	5446.1	5768.3	6225.9	6557.8	6718.9
27.5°	11436.7	10950.1	9786.8	7814.6	5636.2	5223.7	5516.9	5923.0	6219.5	6332.2
30°	11884.6	11385.1	10121.9	7750.1	5397.7	5094.8	5255.9	5571.7	5861.8	5974.5
32.5°	12374.5	11868.5	10444.2	7595.5	5252.7	4998.1	5001.3	5201.1	5465.4	5600.7
35°	12986.7	12448.6	10789.0	7257.1	5136.7	4885.3	4753.2	4849.9	5069.0	5230.1
37.5°	13860.0	13209.1	11211.1	6773.7	4965.9	4711.3	4492.2	4514.7	4682.3	4859.6
40°	15065.3	14230.6	11707.4	6271.0	4721.0	4466.4	4205.4	4195.7	4318.2	4492.2
42.5°	16695.9	15580.9	12303.6	5790.9	4485.7	4169.9	3902.5	3886.4	3983.0	4134.5
45°	18848.5	17308.1	13035.1	5378.4	4302.1	3879.9	3615.7	3609.2	3689.8	3821.9
47.5°	21603.7	19708.9	13766.6	5098.0	4205.4	3651.1	3380.4	3393.3	3464.2	3583.4
50°	25171.1	22838.0	13988.9	4956.2	4205.4	3528.7	3171.0	3235.4	3293.4	3383.6
52.5°	29447.3	25841.4	13254.2	4827.3	4231.2	3544.8	2993.7	3132.3	3174.2	3251.5
55°	33411.0	27314.0	11394.8	4650.1	4237.6	3644.7	2842.3	3048.5	3125.8	3154.8
57.5°	35711.9	26808.1	9213.2	4350.4	4211.8	3712.3	2745.6	2945.4	3093.6	3113.0
60°	35273.7	25032.5	6783.4	4121.6	4021.7	3686.6	2716.6	2787.5	3022.7	3051.7
62.5°	31896.5	22054.9	4708.1	3944.4	3602.8	3573.8	2706.9	2539.3	2868.0	2938.9
65°	25638.3	17362.9	3325.6	3396.5	3158.1	3328.9	2655.4	2281.5	2681.1	2777.8
67.5°	18600.4	11749.3	2400.8	2752.0	2861.6	2932.5	2539.3	2094.6	2468.4	2597.3
70°	11936.2	6345.1	1685.4	1817.5	2410.4	2491.0	2339.5	1927.1	2252.5	2400.8
72.5°	8484.9	3747.8	1211.7	1272.9	1936.7	2075.3	2059.2	1740.2	2001.2	2181.6
75°	5855.3	2065.6	818.5	908.7	1405.0	1685.4	1588.7	1495.2	1695.0	1878.7
77.5°	3670.4	924.9	489.8	631.6	921.6	1324.5	1089.2	1156.9	1321.2	1492.0
80°	2043.1	357.7	273.9	418.9	502.7	963.5	602.6	744.4	973.2	1095.7
82.5°	444.7	45.1	122.5	180.5	196.6	560.7	319.0	431.8	612.3	602.6
85°	0.0	0.0	22.6	25.8	12.9	241.7	116.0	141.8	199.8	186.9
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°
6477.3	0°	6477.3	6477.3	6477.3	6477.3	6477.3	6477.3	6477.3	6477.3	6477.3	6477.3
5826.3	2.5°	5800.5	5642.6	5526.6	5468.6	5420.3	5465.4	5491.2	5491.2	5600.7	5665.2
5368.7	5°	5255.9	4972.3	4756.4	4611.4	4524.4	4553.4	4585.6	4621.1	4759.7	4853.1
5098.0	7.5°	4878.9	4443.8	4115.2	3912.1	3805.8	3821.9	3844.5	3873.5	4008.8	4102.3
5136.7	10°	4808.0	4182.8	3718.8	3451.3	3322.4	3299.9	3287.0	3277.3	3357.9	3428.8
5575.0	12.5°	5098.0	4195.7	3548.0	3222.5	3064.6	2996.9	2919.6	2858.4	2871.3	2916.4
6238.8	15°	5616.8	4360.1	3493.2	3103.3	2906.7	2793.9	2703.7	2629.6	2613.5	2629.6
6818.8	17.5°	6209.8	4582.4	3486.8	3000.2	2755.3	2639.2	2565.1	2497.4	2474.9	2478.1
7144.3	20°	6602.9	4759.7	3467.4	2884.2	2610.2	2507.1	2442.7	2375.0	2352.4	2358.9
7054.1	22.5°	6641.6	4853.1	3438.4	2755.3	2465.2	2378.2	2313.8	2252.5	2249.3	2249.3
6715.7	25°	6432.1	4853.1	3377.2	2639.2	2326.7	2249.3	2191.3	2117.2	2130.1	2136.5
6332.2	27.5°	6106.7	4737.1	3261.2	2545.8	2207.4	2126.9	2068.9	2001.2	2017.3	2027.0
5974.5	30°	5784.4	4588.9	3122.6	2439.4	2094.6	2001.2	1959.3	1901.3	1907.7	1920.6
5620.1	32.5°	5484.7	4431.0	2958.3	2352.4	1981.8	1888.4	1856.2	1791.7	1801.4	1814.3
5272.0	35°	5188.3	4256.9	2764.9	2249.3	1878.7	1785.3	1759.5	1685.4	1691.8	1711.2
4924.0	37.5°	4869.2	4073.3	2607.0	2146.2	1778.8	1682.2	1656.4	1579.0	1585.5	1608.0
4563.1	40°	4534.1	3892.8	2452.3	2036.6	1672.5	1575.8	1553.3	1469.5	1475.9	1501.7
4208.6	42.5°	4195.7	3696.2	2333.1	1894.8	1562.9	1459.8	1437.2	1359.9	1369.6	1398.6
3899.2	45°	3883.1	3461.0	2255.8	1736.9	1459.8	1343.8	1321.2	1250.3	1269.7	1301.9
3638.2	47.5°	3615.7	3219.3	2223.5	1604.8	1350.2	1224.6	1205.2	1147.2	1179.4	1214.9
3415.9	50°	3386.9	2987.3	2181.6	1469.5	1247.1	1121.4	1102.1	1063.4	1105.3	1140.8
3264.4	52.5°	3222.5	2723.0	2091.4	1347.0	1156.9	1034.4	1028.0	1008.6	1047.3	1079.5
3151.6	55°	3080.7	2449.1	1946.4	1240.7	1076.3	960.3	966.8	957.1	989.3	1015.1
3083.9	57.5°	2951.8	2210.6	1762.7	1156.9	989.3	895.9	915.2	902.3	918.4	934.5
3013.1	60°	2797.1	1969.0	1543.6	1063.4	886.2	831.4	854.0	818.5	815.3	821.7
2884.2	62.5°	2568.3	1643.5	1314.8	947.4	796.0	760.5	770.2	702.5	650.9	650.9
2694.0	65°	2249.3	1321.2	1102.1	818.5	692.8	663.8	657.4	560.7	489.8	483.4
2487.8	67.5°	1878.7	1086.0	915.2	689.6	576.8	557.5	563.9	493.0	422.1	415.7
2281.5	70°	1530.7	899.1	738.0	551.1	444.7	464.0	493.0	422.1	354.5	344.8
2039.9	72.5°	1243.9	715.4	576.8	422.1	328.7	383.5	418.9	344.8	280.4	273.9
1740.2	75°	960.3	525.3	412.5	286.8	238.5	296.5	328.7	251.4	199.8	190.1
1347.0	77.5°	641.3	325.5	232.0	180.5	141.8	203.0	219.1	132.1	116.0	112.8
979.6	80°	389.9	151.5	99.9	87.0	48.3	74.1	87.0	54.8	61.2	64.5
522.0	82.5°	196.6	41.9	16.1	3.2	0.0	0.0	25.8	12.9	25.8	32.2
141.8	85°	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	16.1
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°
6477.3	0°	6477.3	6477.3	6477.3	6477.3	6477.3	6477.3	6477.3	6477.3	6477.3	6477.3
5691.0	2.5°	5871.4	6006.8	6135.7	6341.9	6554.6	6764.1	6976.7	7183.0	7257.1	7311.9
4914.3	5°	5194.7	5449.3	5745.7	6155.0	6593.3	7044.4	7502.0	7920.9	8111.1	8240.0
4182.8	7.5°	4495.4	4827.3	5252.7	5868.2	6554.6	7273.2	7991.8	8652.5	8958.6	9206.7
3493.2	10°	3802.6	4163.5	4701.7	5404.2	6332.2	7363.4	8356.0	9264.7	9661.1	9973.7
2996.9	12.5°	3193.5	3531.9	4095.8	4872.4	5984.2	7292.6	8565.4	9657.9	10125.1	10476.4
2642.5	15°	2764.9	3003.4	3502.9	4340.7	5571.7	7063.8	8578.3	9844.8	10357.2	10724.5
2494.2	17.5°	2526.5	2607.0	2932.5	3799.3	5114.1	6764.1	8459.1	9909.2	10457.1	10798.6
2362.1	20°	2397.6	2410.4	2500.7	3096.8	4527.6	6483.7	8346.3	9973.7	10550.5	10837.3
2268.7	22.5°	2294.4	2294.4	2317.0	2532.9	3770.3	6148.6	8310.9	10086.5	10679.4	10856.7
2162.3	25°	2201.0	2201.0	2207.4	2265.4	2987.3	5636.2	8288.3	10260.5	10856.7	10905.0
2056.0	27.5°	2104.3	2107.5	2107.5	2139.8	2407.2	4940.1	8191.6	10486.1	11069.3	10969.4
1952.8	30°	2007.6	2014.1	2014.1	2036.6	2130.1	4124.8	8001.5	10756.8	11346.5	11053.2
1849.7	32.5°	1911.0	1917.4	1917.4	1936.7	2004.4	3293.4	7763.0	11004.9	11626.8	11088.7
1749.8	35°	1811.1	1820.7	1814.3	1840.1	1911.0	2619.9	7460.1	11253.0	11929.8	11201.5
1653.2	37.5°	1711.2	1717.6	1714.4	1740.2	1820.7	2262.2	7108.9	11439.9	12342.2	11452.8
1550.0	40°	1611.3	1608.0	1608.0	1637.0	1724.0	2159.1	6667.4	11736.4	12935.2	11894.3
1446.9	42.5°	1508.1	1508.1	1501.7	1533.9	1640.3	2081.7	6245.2	12268.1	13798.8	12596.8
1350.2	45°	1414.7	1411.5	1398.6	1427.6	1559.7	1946.4	6097.0	13260.7	15074.9	13734.4
1253.6	47.5°	1324.5	1321.2	1289.0	1314.8	1463.0	1823.9	6651.3	14884.8	16844.1	15406.8
1176.2	50°	1243.9	1247.1	1185.9	1208.4	1366.3	1730.5	7853.3	16992.3	19193.3	17659.4
1111.8	52.5°	1169.8	1169.8	1089.2	1102.1	1247.1	1646.7	8997.3	19277.1	22293.4	20801.3
1044.1	55°	1095.7	1089.2	999.0	1005.4	1127.9	1527.5	9168.1	21507.1	26521.3	25528.8
970.0	57.5°	1011.9	999.0	915.2	915.2	1018.3	1440.5	7946.7	23221.4	31767.6	32476.5
831.4	60°	908.7	899.1	844.3	828.2	931.3	1517.8	5607.2	23421.2	35151.2	41715.5
660.6	62.5°	776.6	789.5	760.5	738.0	847.5	1575.8	3322.4	21813.2	34332.7	44654.4
512.4	65°	612.3	663.8	657.4	641.3	931.3	1327.7	1962.5	18726.0	31822.3	42282.6
447.9	67.5°	522.0	557.5	547.8	547.8	976.4	1008.6	1234.2	14630.2	28367.8	39469.4
373.8	70°	444.7	480.2	444.7	444.7	738.0	612.3	854.0	10215.4	24639.4	36356.4
299.7	72.5°	367.4	402.8	364.1	338.4	589.7	457.6	625.2	6383.8	21101.0	33114.6
212.7	75°	280.4	322.3	293.2	261.0	389.9	341.6	473.7	3709.1	17482.1	28332.4
128.9	77.5°	177.2	232.0	219.1	183.7	286.8	248.1	341.6	2207.4	13489.5	22138.7
77.3	80°	109.6	119.2	122.5	116.0	164.3	167.6	232.0	1256.8	9232.5	15429.4
48.3	82.5°	70.9	70.9	54.8	61.2	80.6	96.7	132.1	473.7	5426.7	9393.6
29.0	85°	51.6	45.1	29.0	29.0	38.7	48.3	51.6	145.0	2201.0	3709.1
12.9	87.5°	25.8	22.6	9.7	12.9	19.3	16.1	12.9	6.4	554.3	1185.9
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°
6477.3	0°	6477.3	6477.3	6477.3	6477.3	6477.3	6477.3	6477.3	6477.3
7434.3	2.5°	7498.8	7598.7	7605.1	7605.1	7518.1	7514.9	7337.7	7318.3
8530.0	5°	8829.7	8894.1	8910.3	8878.0	8704.0	8575.1	8230.3	8156.2
9648.2	7.5°	10047.8	10176.7	10176.7	10099.4	9815.8	9551.5	9052.0	8865.1
10573.1	10°	11021.0	11169.2	11137.0	10979.1	10621.4	10257.3	9651.4	9406.5
11133.8	12.5°	11494.7	11646.2	11562.4	11381.9	11033.9	10650.4	10012.4	9735.2
11294.9	15°	11485.0	11443.2	11356.1	11333.6	11166.0	10876.0	10279.8	9976.9
11195.0	17.5°	11075.8	10721.3	10653.6	10879.2	11091.9	11021.0	10511.8	10228.3
10956.6	20°	10428.1	9809.3	9748.1	10179.9	10785.8	11095.1	10727.8	10466.7
10611.7	22.5°	9744.9	9077.8	8936.0	9413.0	10324.9	11117.7	11001.7	10740.6
10231.5	25°	9097.2	8426.9	8285.1	8729.8	9812.6	11079.0	11298.1	11075.8
9867.3	27.5°	8555.8	7908.1	7775.9	8220.6	9319.5	10969.4	11594.6	11436.7
9506.4	30°	8136.9	7537.5	7440.8	7869.4	8894.1	10834.1	11971.6	11884.6
9171.3	32.5°	7891.9	7453.7	7489.1	7840.4	8665.3	10685.9	12332.6	12374.5
9006.9	35°	8133.6	8153.0	8462.3	8607.3	8878.0	10663.3	12822.4	12986.7
9203.5	37.5°	9335.6	10005.9	10647.2	10528.0	9918.9	10924.3	13553.9	13860.0
10060.7	40°	11381.9	12757.9	13798.8	13344.4	11810.5	11723.5	14607.7	15065.3
11581.7	42.5°	13882.6	16215.7	17930.1	16712.0	14250.0	13122.1	16112.6	16695.9
13421.8	45°	16521.8	20479.1	23179.6	20646.7	16850.5	15081.4	18390.9	18848.5
15145.8	47.5°	19302.9	25660.9	29154.1	25009.9	19261.0	17311.4	21497.4	21603.7
16779.6	50°	22344.9	31342.2	35244.7	29370.0	21587.6	19866.8	25293.5	25171.1
18684.1	52.5°	25242.0	37184.6	41206.3	33749.4	23630.7	23037.8	29698.7	29447.3
21287.9	55°	28006.9	43023.8	47203.4	37958.0	25557.8	27227.0	34932.1	33411.0
25042.2	57.5°	31213.3	48273.3	53384.2	42186.0	28251.8	32666.6	40784.2	35711.9
32231.6	60°	35953.6	54238.2	60373.8	47980.0	33375.6	38383.4	42882.0	35273.7
40842.2	62.5°	42005.5	59722.9	65455.7	53658.1	38522.0	39459.7	39791.6	31896.5
39085.9	65°	43181.7	61111.8	65742.5	55175.9	37858.1	33472.3	32486.2	25638.3
34912.7	67.5°	40062.3	58601.4	61733.7	52349.8	33488.4	25867.1	24378.3	18600.4
32173.6	70°	36562.7	53816.0	54747.3	47545.0	29453.8	19025.7	16463.8	11936.2
30298.1	72.5°	32976.0	47432.2	45505.1	41290.1	25886.5	13853.6	11875.0	8484.9
27626.6	75°	28715.8	39037.6	35844.0	34306.9	21433.0	10872.8	8591.2	5855.3
23762.8	77.5°	22995.9	27478.4	26624.4	26592.2	16106.1	7943.5	5732.9	3670.4
18564.9	80°	16222.1	17833.4	17398.4	20027.9	10805.1	5761.9	3451.3	2043.1
12922.3	82.5°	7853.3	9860.9	10121.9	11926.5	5255.9	3390.1	796.0	444.7
5052.9	85°	3074.3	4756.4	4012.0	4527.6	1475.9	944.2	19.3	0.0
831.4	87.5°	344.8	551.1	505.9	399.6	180.5	38.7	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)