

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: P530448

Luminaire Tested: **GALN-SA5C-830-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-830-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20836 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 269
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



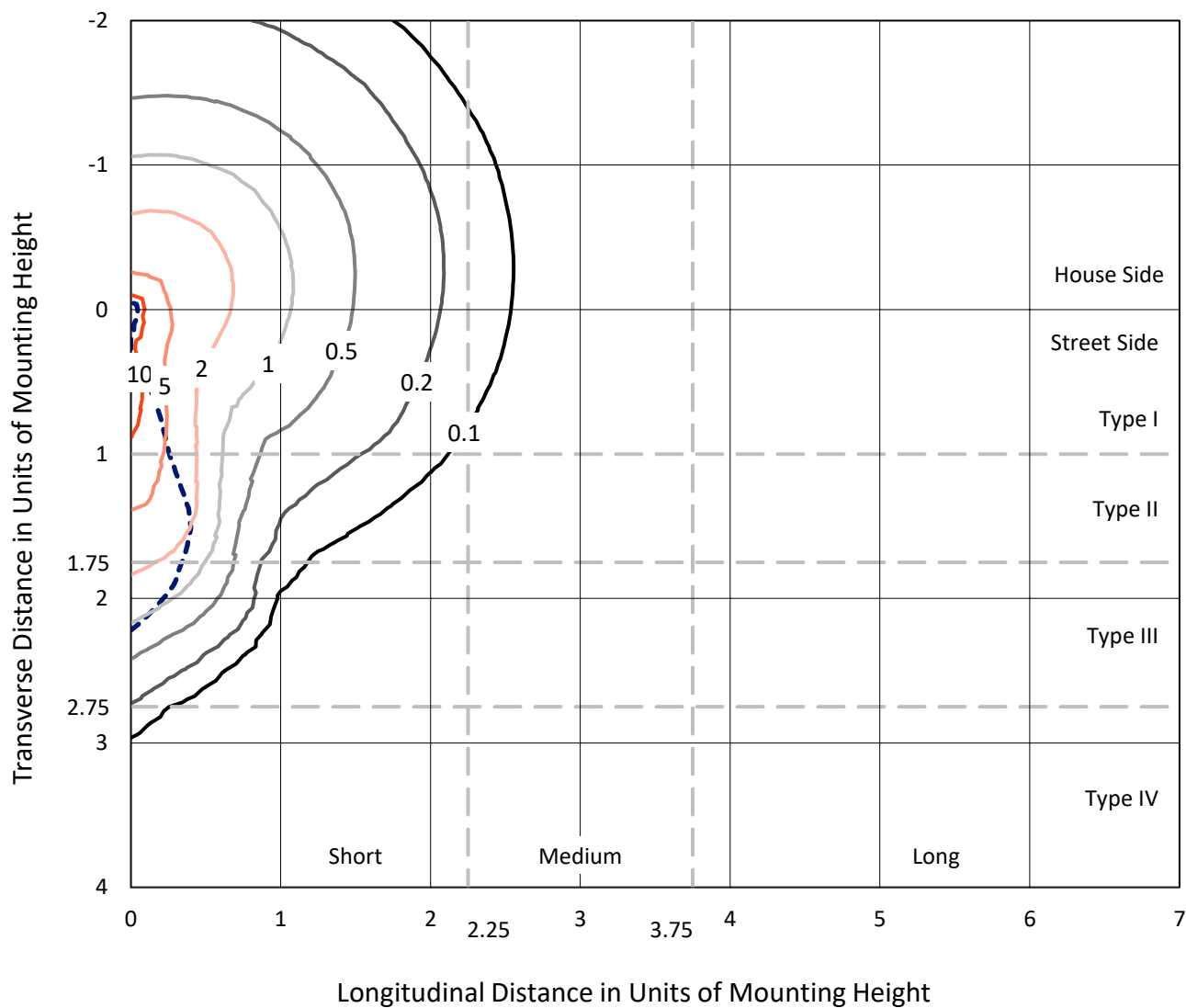
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

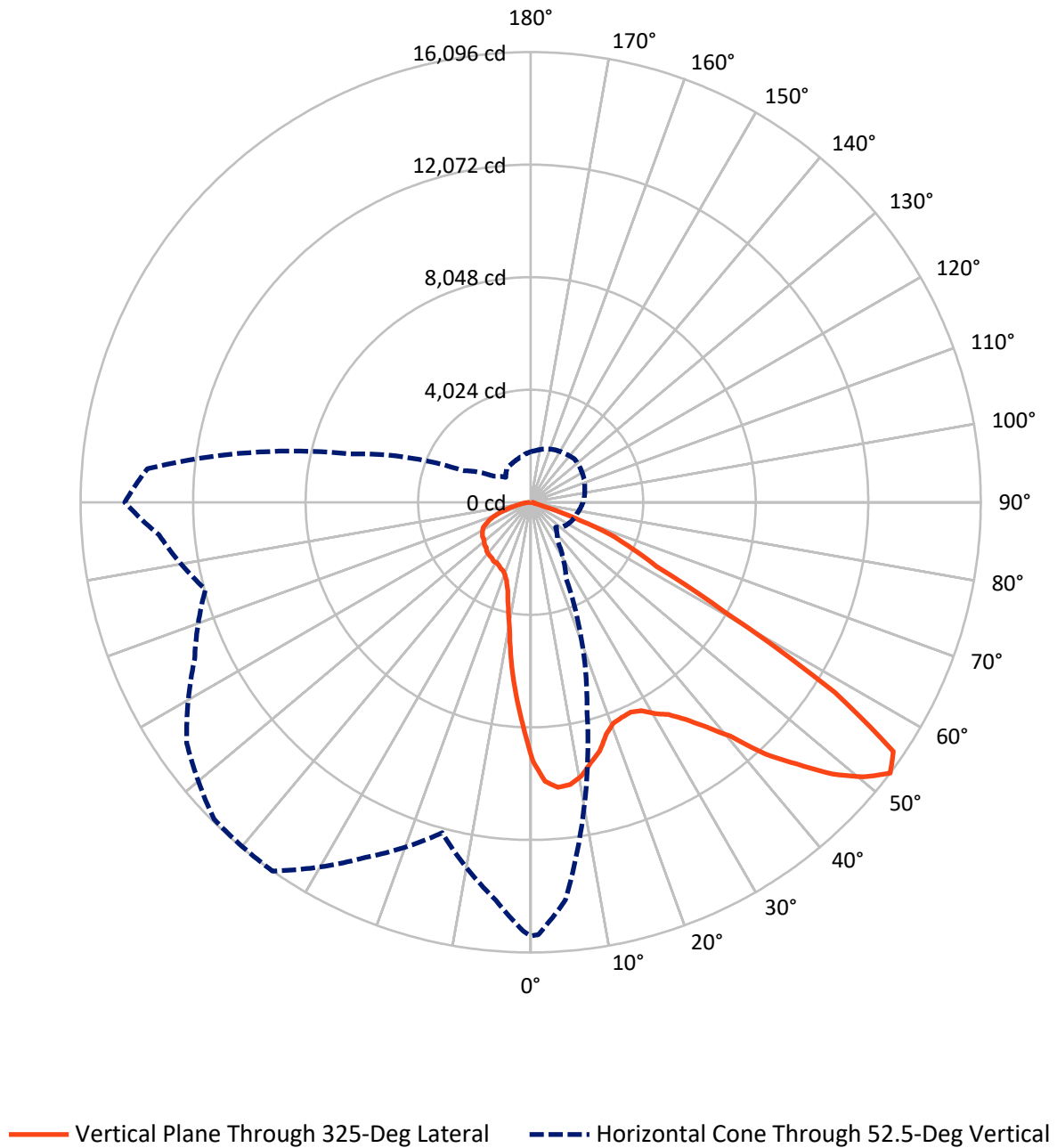


Based on 25 foot mounting height. Maximum calculated value = 14.8 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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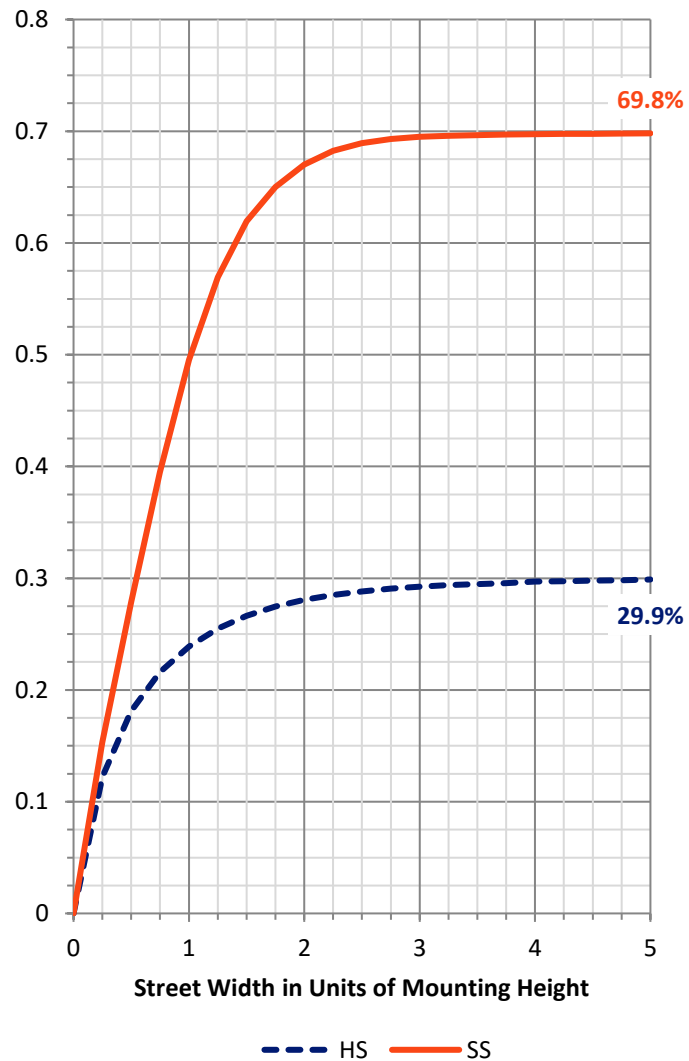
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6281.2	0.0	6281.2
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	14554.8	0.0	14554.8
	% Fixture	69.9	0.0	69.9
Total	Lumens	20836.0	0.0	20836.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	705.5	3.4
10°-20°	1529.4	7.3
20°-30°	2310.7	11.1
30°-40°	3339.1	16.0
40°-50°	4443.8	21.3
50°-60°	4970.5	23.9
60°-70°	2801.3	13.4
70°-80°	624.5	3.0
80°-90°	111.2	0.5
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°	20836.0	100.0
0°-180°	20836.0	100.0

Coefficient of Utilization



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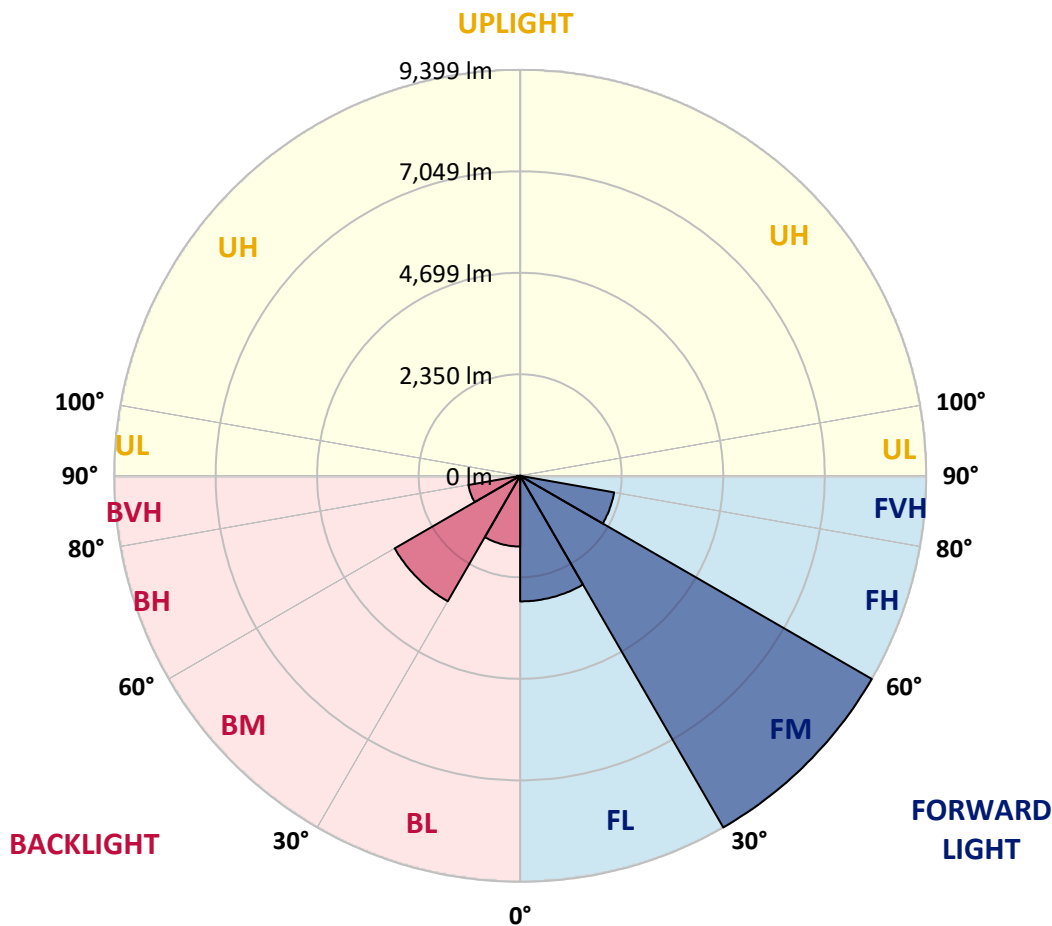
CATALOG NUMBER: GALN-SA5C-830-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2907.6	14.0			
FM	(30°-60°)	9398.6	45.1			
FH	(60°-80°)	2208.3	10.6			G2/5000
FVH	(80°-90°)	40.3	0.2			G1/100
BL	(0°-30°)	1638.0	7.9	B3/2500		
BM	(30°-60°)	3354.8	16.1	B3/5000		
BH	(60°-80°)	1217.5	5.8	B3/2500		G3/2500
BVH	(80°-90°)	70.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9247.1	9247.1	9247.1	9247.1	9247.1	9247.1	9247.1	9247.1	9247.1	9247.1	9247.1
2.5°	9401.2	9552.2	9389.1	9099.2	8893.8	8706.6	8510.3	8471.0	8214.3	8169.0	7981.8
5°	8866.6	8833.4	8634.1	8253.6	7833.8	7453.3	7172.4	6900.6	6716.4	6502.0	6486.9
7.5°	8217.3	8024.1	7909.3	7332.5	6813.0	6215.1	5958.4	5544.7	5414.8	5221.5	5121.9
10°	7637.5	7495.6	7226.8	6650.0	5925.2	5529.6	5254.7	5031.3	4880.3	4681.0	4430.3
12.5°	7350.6	7293.2	6991.2	6097.3	5559.8	5137.0	4943.7	4726.3	4469.6	4149.4	4025.6
15°	7401.9	7208.7	6979.1	5991.6	5248.7	4841.0	4533.0	4261.2	3932.0	3627.0	3448.8
17.5°	7785.5	7637.5	7178.5	6058.1	5130.9	4542.0	3983.3	3581.7	3285.7	3010.9	2887.1
20°	8540.5	8326.1	7809.6	6142.6	4877.2	4125.3	3485.0	2989.8	2672.7	2527.7	2485.4
22.5°	9377.0	9250.2	8425.7	6332.9	4674.9	3738.7	2956.5	2461.3	2343.5	2304.2	2382.8
25°	10394.7	10065.6	9383.0	6643.9	4517.9	3409.5	2509.6	2234.8	2174.4	2213.6	2304.2
27.5°	11167.8	11080.3	10053.5	6936.9	4303.5	3013.9	2258.9	2077.7	2095.9	2135.1	2219.7
30°	12085.9	11642.0	10702.8	7139.2	4110.2	2742.1	2083.8	2035.5	2053.6	2120.0	2162.3
32.5°	12638.6	12472.5	11110.5	7444.2	3886.7	2506.6	1947.9	1902.6	1929.8	2029.4	2129.1
35°	13342.2	13013.0	11614.8	7522.7	3729.7	2413.0	1851.2	1818.0	1881.4	1950.9	2062.6
37.5°	14163.7	13937.2	12312.4	7468.4	3645.1	2316.3	1769.7	1754.6	1799.9	1896.5	2026.4
40°	14649.9	14580.4	12677.8	7501.6	3512.2	2231.8	1676.1	1694.2	1787.8	1863.3	1990.2
42.5°	15118.0	14665.0	13218.4	7489.5	3427.7	2117.0	1685.1	1664.0	1736.5	1824.1	1944.9
45°	15220.6	14770.7	13345.2	7405.0	3325.0	2005.3	1615.7	1624.7	1712.3	1821.0	1899.6
47.5°	15154.2	14822.0	13580.8	7380.8	3228.3	1926.7	1513.0	1621.7	1673.1	1760.6	1872.4
50°	15108.9	15090.8	13780.1	7495.6	3098.5	1802.9	1389.2	1582.5	1633.8	1721.4	1842.2
52.5°	15507.5	15468.3	14278.4	7797.6	2995.8	1670.0	1262.3	1482.8	1606.6	1691.2	1809.0
55°	15749.1	15577.0	15133.1	8169.0	2823.7	1494.9	1174.8	1359.0	1540.2	1615.7	1736.5
57.5°	14166.7	14048.9	13689.5	7625.4	2533.8	1265.4	1066.0	1232.1	1449.6	1567.4	1691.2
60°	11786.9	11602.7	10681.6	6480.9	1869.4	984.5	999.6	1132.5	1425.4	1470.7	1615.7
62.5°	11113.5	10657.5	9404.2	5215.5	1434.5	845.6	896.9	1041.9	1298.6	1374.1	1519.0
65°	8818.3	8480.1	6728.5	3765.9	960.4	733.9	818.4	939.2	1120.4	1268.4	1401.3
67.5°	5520.5	5197.4	3590.7	1781.8	670.4	628.2	730.8	857.7	1005.6	1138.5	1286.5
70°	2884.1	2530.7	1658.0	643.3	462.1	513.4	610.0	730.8	875.8	984.5	1099.3
72.5°	1075.1	872.8	540.6	277.8	320.1	392.6	495.3	582.9	685.5	818.4	881.8
75°	166.1	141.9	138.9	169.1	217.4	283.9	353.3	440.9	531.5	616.1	658.4
77.5°	78.5	75.5	84.6	111.7	145.0	202.3	256.7	341.3	413.7	468.1	492.3
80°	51.3	48.3	54.4	75.5	108.7	151.0	205.4	262.7	329.2	374.5	368.4
82.5°	30.2	33.2	33.2	51.3	75.5	108.7	148.0	199.3	244.6	283.9	259.7
85°	18.1	15.1	15.1	30.2	51.3	87.6	123.8	84.6	87.6	87.6	99.7
87.5°	6.0	6.0	6.0	3.0	6.0	6.0	9.1	15.1	18.1	21.1	27.2
90°	0.0	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°
0°	9247.1	9247.1	9247.1	9247.1	9247.1	9247.1	9247.1	9247.1	9247.1	9247.1	9247.1
2.5°	7975.7	8069.4	8036.1	7918.4	8009.0	8024.1	7963.7	8172.0	8211.3	8147.9	8166.0
5°	6465.8	6489.9	6544.3	6659.0	6740.6	6837.2	6837.2	6843.2	6761.7	6967.1	6906.7
7.5°	5037.3	5052.4	5115.8	5360.4	5429.9	5614.1	5692.6	5638.3	5475.2	5405.7	5463.1
10°	4348.8	4261.2	4240.0	4270.2	4427.3	4505.8	4572.2	4554.1	4526.9	4472.6	4412.2
12.5°	3889.7	3826.3	3775.0	3702.5	3711.5	3787.0	3838.4	3796.1	3808.2	3820.3	3838.4
15°	3391.4	3346.1	3318.9	3210.2	3198.1	3249.5	3267.6	3291.8	3337.1	3340.1	3318.9
17.5°	2862.9	2823.7	2884.1	2944.5	2902.2	2905.2	2938.4	2959.6	2947.5	2893.1	2866.0
20°	2500.5	2542.8	2603.2	2660.6	2705.9	2733.1	2745.2	2711.9	2672.7	2560.9	2557.9
22.5°	2394.8	2449.2	2500.5	2588.1	2630.4	2699.9	2636.4	2560.9	2506.6	2452.2	2388.8
25°	2316.3	2361.6	2464.3	2497.5	2579.1	2636.4	2591.1	2515.6	2422.0	2343.5	2295.2
27.5°	2258.9	2310.3	2376.7	2467.3	2530.7	2564.0	2518.7	2488.5	2391.8	2298.2	2228.7
30°	2222.7	2277.1	2397.9	2473.4	2527.7	2554.9	2476.4	2440.1	2370.7	2292.2	2231.8
32.5°	2198.5	2246.9	2349.5	2446.2	2482.4	2482.4	2494.5	2452.2	2355.6	2222.7	2171.4
35°	2120.0	2186.5	2271.0	2382.8	2449.2	2488.5	2428.1	2379.7	2316.3	2180.4	2086.8
37.5°	2074.7	2120.0	2228.7	2334.4	2391.8	2434.1	2409.9	2325.4	2240.8	2129.1	2053.6
40°	2026.4	2098.9	2195.5	2295.2	2358.6	2400.9	2382.8	2283.1	2180.4	2074.7	2023.4
42.5°	1993.2	2041.5	2141.2	2252.9	2328.4	2409.9	2355.6	2231.8	2159.3	2014.3	1956.9
45°	1966.0	2044.5	2150.2	2195.5	2274.0	2358.6	2262.0	2186.5	2101.9	1996.2	1947.9
47.5°	1932.8	2005.3	2074.7	2195.5	2231.8	2271.0	2252.9	2132.1	2059.6	1944.9	1911.6
50°	1920.7	1947.9	2074.7	2141.2	2192.5	2231.8	2183.4	2092.8	2023.4	1905.6	1833.1
52.5°	1872.4	1923.7	2005.3	2092.8	2156.3	2204.6	2126.1	2068.7	1975.1	1851.2	1805.9
55°	1812.0	1842.2	1987.1	2077.7	2111.0	2144.2	2114.0	2020.4	1923.7	1796.9	1751.6
57.5°	1733.5	1802.9	1920.7	2047.5	2089.8	2107.9	2059.6	1984.1	1863.3	1751.6	1679.1
60°	1651.9	1724.4	1854.3	1956.9	1999.2	2065.7	1993.2	1947.9	1809.0	1685.1	1606.6
62.5°	1570.4	1651.9	1748.6	1878.4	1914.7	1941.8	1923.7	1860.3	1748.6	1609.6	1513.0
65°	1473.7	1534.1	1654.9	1721.4	1745.5	1809.0	1745.5	1721.4	1621.7	1488.8	1407.3
67.5°	1328.8	1380.1	1485.8	1549.2	1567.4	1594.5	1591.5	1564.3	1452.6	1362.0	1289.5
70°	1162.7	1208.0	1274.4	1349.9	1359.0	1392.2	1362.0	1356.0	1283.5	1159.7	1120.4
72.5°	933.2	975.4	1063.0	1096.2	1099.3	1111.3	1096.2	1075.1	1057.0	927.1	887.9
75°	715.7	739.9	782.2	812.4	812.4	827.5	818.4	797.3	749.0	667.4	628.2
77.5°	498.3	522.5	576.8	594.9	591.9	598.0	570.8	549.6	477.2	434.9	401.7
80°	362.4	377.5	404.7	416.8	419.8	428.8	395.6	377.5	335.2	286.9	271.8
82.5°	262.7	271.8	274.8	289.9	289.9	274.8	265.8	247.6	217.4	187.2	175.2
85°	108.7	111.7	114.8	132.9	135.9	163.1	151.0	141.9	123.8	105.7	96.6
87.5°	27.2	30.2	39.3	33.2	39.3	39.3	42.3	48.3	48.3	39.3	39.3
90°	0.0	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°
0°	9247.1	9247.1	9247.1	9247.1	9247.1	9247.1	9247.1	9247.1	9247.1	9247.1	9247.1
2.5°	8235.5	8259.6	8567.7	8606.9	8757.9	8911.9	9223.0	9446.5	9627.7	9745.4	9778.7
5°	6970.1	7124.1	7266.0	7495.6	7703.9	7999.9	8341.2	8763.9	9295.5	9567.3	9676.0
7.5°	5457.1	5638.3	5843.6	6067.1	6372.1	6903.6	7359.7	7848.9	8528.4	8809.2	9235.1
10°	4454.5	4656.8	4928.6	5100.7	5469.2	5976.5	6508.0	7072.8	7722.1	8126.7	8619.0
12.5°	3938.0	4104.1	4354.8	4717.2	4992.0	5321.2	5716.8	6429.5	7359.7	7743.2	8081.4
15°	3367.3	3551.5	3841.4	4243.1	4572.2	4964.8	5408.8	6184.9	7175.4	7767.4	8054.3
17.5°	2896.2	3029.0	3334.0	3681.3	4058.8	4487.7	5124.9	6172.8	7368.7	8126.7	8594.8
20°	2570.0	2588.1	2754.2	3050.2	3563.6	4122.3	4949.7	6112.4	7987.8	8745.8	9337.7
22.5°	2364.6	2346.5	2349.5	2600.2	2959.6	3762.9	4674.9	6317.8	8691.5	9730.3	10129.0
25°	2262.0	2213.6	2183.4	2237.8	2564.0	3337.1	4466.5	6589.6	9449.5	10542.7	11031.9
27.5°	2207.6	2123.0	2062.6	2071.7	2310.3	3122.6	4336.7	6707.4	10201.5	11675.2	11847.3
30°	2186.5	2080.8	1993.2	1963.0	2120.0	2823.7	4058.8	6909.7	10874.9	12297.3	12445.3
32.5°	2111.0	1981.1	1896.5	1869.4	1932.8	2560.9	3859.5	7054.6	11469.8	12973.8	12922.4
35°	2023.4	1914.7	1809.0	1757.6	1802.9	2391.8	3699.5	6985.2	12170.5	13499.3	13472.1
37.5°	2014.3	1872.4	1784.8	1700.2	1697.2	2183.4	3482.0	7051.6	12617.4	14441.5	14070.0
40°	1935.8	1845.2	1730.4	1661.0	1621.7	2077.7	3270.6	6894.6	13272.8	14822.0	14456.6
42.5°	1938.8	1802.9	1703.3	1621.7	1582.5	1923.7	3125.7	6852.3	13502.3	15441.1	14637.8
45°	1890.5	1757.6	1673.1	1576.4	1555.3	1805.9	2986.7	6656.0	13907.0	15471.3	14411.3
47.5°	1842.2	1724.4	1633.8	1519.0	1470.7	1763.7	2878.0	6492.9	13695.6	15187.4	14097.2
50°	1809.0	1673.1	1588.5	1507.0	1371.1	1691.2	2736.1	6453.7	13399.6	14803.9	13514.4
52.5°	1751.6	1630.8	1543.2	1479.8	1262.3	1624.7	2681.7	6683.2	13762.0	14517.0	13345.2
55°	1697.2	1573.4	1461.7	1337.8	1171.7	1449.6	2530.7	6897.6	14290.5	15178.4	14112.3
57.5°	1639.8	1522.1	1401.3	1253.3	1084.2	1268.4	2373.7	6936.9	13299.9	14027.8	13396.6
60°	1564.3	1413.3	1322.7	1129.5	990.5	1050.9	1881.4	6115.4	10316.2	11714.5	11735.6
62.5°	1479.8	1316.7	1238.2	1011.7	893.9	906.0	1534.1	5140.0	8368.3	9697.1	10273.9
65°	1368.0	1211.0	1117.4	936.2	824.5	785.2	1123.4	3765.9	6357.0	7867.0	8522.4
67.5°	1223.1	1075.1	957.3	815.4	736.9	673.5	767.1	2120.0	3753.8	5281.9	5481.2
70°	1069.1	942.2	818.4	700.6	613.1	567.8	561.7	939.2	1793.9	2841.8	3234.4
72.5°	842.6	752.0	652.3	564.7	507.4	440.9	401.7	389.6	607.0	1156.6	1597.6
75°	604.0	528.5	471.1	413.7	371.5	335.2	305.0	277.8	253.7	289.9	398.6
77.5°	380.5	353.3	308.0	292.9	268.8	259.7	247.6	232.5	214.4	202.3	202.3
80°	256.7	238.6	223.5	220.5	211.4	208.4	211.4	196.3	178.2	163.1	169.1
82.5°	172.1	169.1	166.1	163.1	166.1	169.1	175.2	172.1	157.0	148.0	151.0
85°	102.7	108.7	114.8	120.8	132.9	117.8	96.6	81.5	72.5	66.4	63.4
87.5°	39.3	54.4	48.3	45.3	48.3	45.3	42.3	39.3	33.2	30.2	30.2
90°	0.0	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°	359°	360°
0°	9247.1	9247.1	9247.1	9247.1	9247.1	9247.1	9247.1	9247.1	9247.1	9247.1
2.5°	9999.1	10059.5	10110.9	10098.8	9993.1	9851.1	9793.8	9500.8	9440.4	9401.2
5°	10135.0	10485.3	10560.8	10515.5	10240.7	9893.4	9555.2	9126.3	8875.7	8866.6
7.5°	9884.4	10316.2	10452.1	10554.8	10189.4	9585.4	9005.5	8362.3	8205.3	8217.3
10°	9247.1	9935.7	10270.9	10376.6	9956.8	9434.4	8631.1	7978.8	7643.5	7637.5
12.5°	8893.8	9434.4	9528.0	9676.0	9552.2	9023.7	8413.6	7682.8	7356.6	7350.6
15°	8579.7	8936.1	8963.3	9171.6	9238.1	8881.7	8471.0	7691.9	7429.1	7401.9
17.5°	8854.5	8606.9	8504.2	8531.4	8727.7	8857.6	8803.2	8205.3	7936.5	7785.5
20°	9038.8	8486.1	8175.1	8205.3	8437.8	8911.9	9298.5	8948.2	8522.4	8540.5
22.5°	9531.0	8504.2	8018.0	7984.8	8353.2	9195.8	9857.2	9887.4	9476.7	9377.0
25°	10267.9	8712.6	7969.7	7960.6	8314.0	9500.8	10509.5	10998.7	10579.0	10394.7
27.5°	10859.8	9038.8	8120.7	8150.9	8437.8	9748.5	11065.2	11714.5	11394.3	11167.8
30°	11379.2	9377.0	8332.1	8193.2	8770.0	9878.3	11303.7	12529.9	12273.2	12085.9
32.5°	11593.7	9857.2	8667.3	8437.8	9044.8	10035.4	11799.0	13321.1	13100.6	12638.6
35°	11956.1	10126.0	8848.5	8830.4	9525.0	10412.9	12031.6	13843.5	13752.9	13342.2
37.5°	12246.0	10397.8	9491.8	9292.4	10183.3	11047.0	12406.0	14565.3	14356.9	14163.7
40°	12469.5	10884.0	10092.7	10355.5	10992.7	11623.9	12750.3	14610.6	15211.6	14649.9
42.5°	12264.1	11318.8	11080.3	11708.4	12312.4	12282.2	12789.6	14960.9	15410.9	15118.0
45°	12212.8	12055.7	12641.6	13212.4	13351.3	12828.8	12508.7	14574.4	15350.5	15220.6
47.5°	12088.9	12780.5	13801.3	14731.4	14520.0	13194.2	12173.5	14504.9	15386.7	15154.2
50°	12046.7	12937.5	14658.9	15564.9	15438.1	13511.3	12016.5	14058.0	15130.0	15108.9
52.5°	12043.6	13260.7	15015.3	16017.9	16096.4	14012.7	12230.9	14284.5	15329.4	15507.5
55°	12179.5	13158.0	14970.0	15767.3	15737.1	13789.2	12255.0	14435.5	15574.0	15749.1
57.5°	11488.0	11786.9	12354.7	12985.9	12822.8	11421.5	10944.4	13345.2	14293.5	14166.7
60°	9920.6	8984.4	8344.2	8314.0	7996.9	7559.0	8957.2	11910.8	11910.8	11786.9
62.5°	8688.5	5898.0	5067.5	4832.0	5058.4	5562.8	8640.1	11584.6	11255.4	11113.5
65°	7598.2	4502.8	3663.2	3596.8	3989.4	4750.4	7812.7	9869.3	9289.4	8818.3
67.5°	4889.3	3297.8	2724.0	2606.2	3080.4	3488.1	5200.4	6070.1	5704.7	5520.5
70°	3152.8	2147.2	1516.0	1422.4	1606.6	2150.2	3322.0	3539.4	3007.9	2884.1
72.5°	1491.9	927.1	531.5	437.9	492.3	821.4	1313.7	1413.3	1174.8	1075.1
75°	474.1	341.3	217.4	187.2	178.2	211.4	302.0	232.5	169.1	166.1
77.5°	211.4	202.3	172.1	145.0	126.8	105.7	87.6	72.5	75.5	78.5
80°	175.2	160.1	141.9	126.8	105.7	81.5	63.4	48.3	48.3	51.3
82.5°	154.0	138.9	123.8	105.7	90.6	66.4	48.3	33.2	30.2	30.2
85°	66.4	78.5	84.6	90.6	72.5	54.4	33.2	21.1	18.1	18.1
87.5°	27.2	24.2	21.1	18.1	15.1	15.1	12.1	9.1	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)