

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: P457190

Luminaire Tested: **GALN-SA8C-730-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457190
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50608 lumens
Efficiency: N/A
Efficacy: 118.0 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

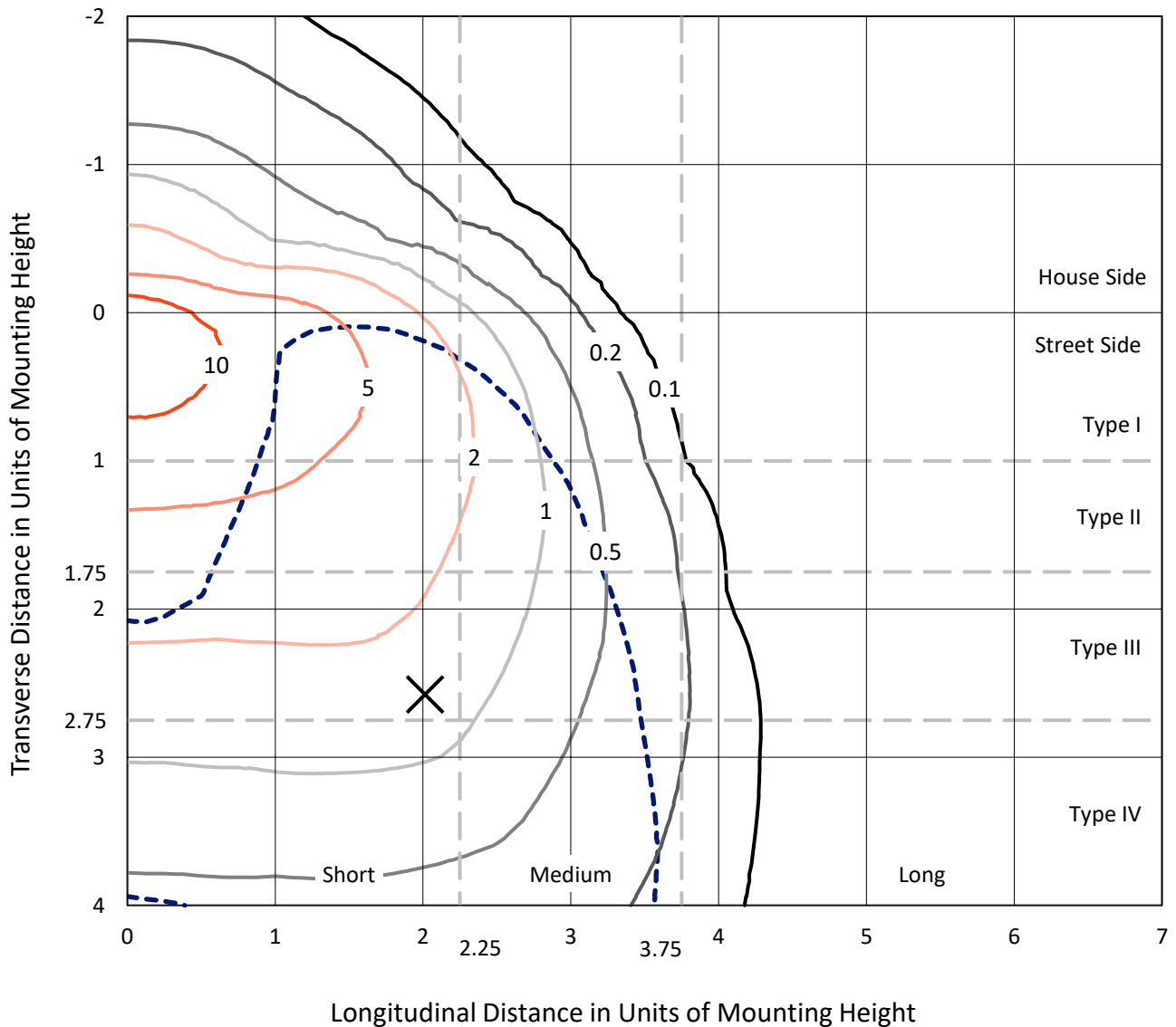
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

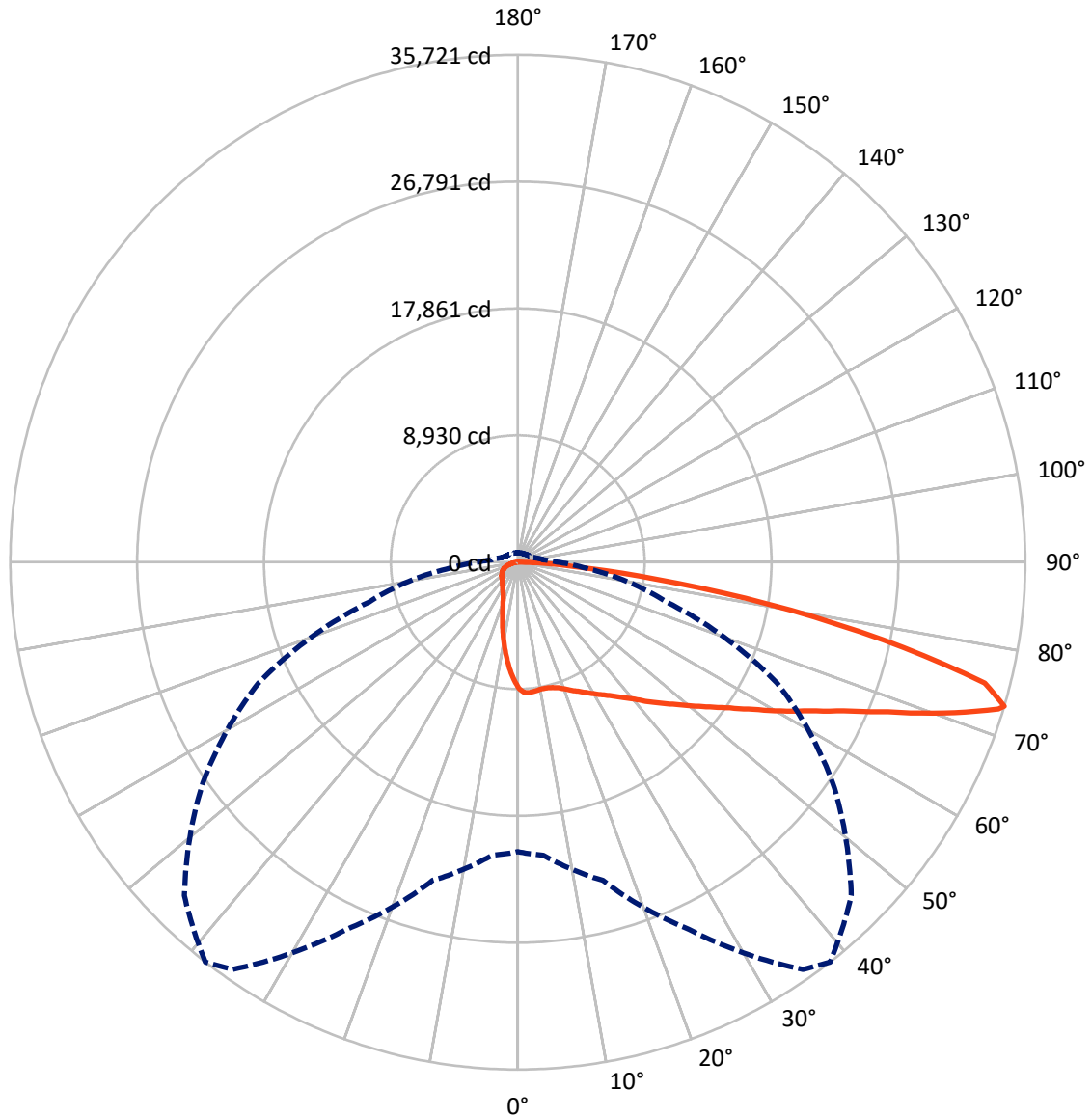
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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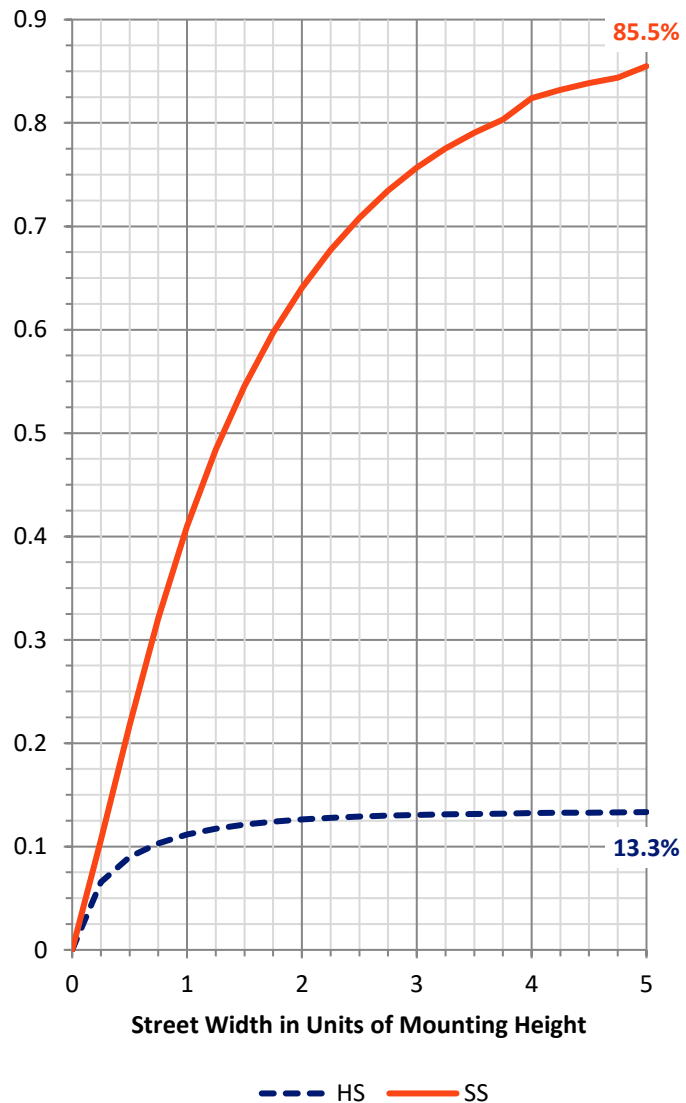
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6803.2	0.0	6803.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	43804.8	0.0	43804.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	50608.0	0.0	50608.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	776.1	1.5
10°-20°	1990.1	3.9
20°-30°	3099.0	6.1
30°-40°	4545.5	9.0
40°-50°	6742.8	13.3
50°-60°	9553.2	18.9
60°-70°	12118.5	23.9
70°-80°	10087.8	19.9
80°-90°	1694.9	3.3
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°	50608.0	100.0
0°-180°	50608.0	100.0



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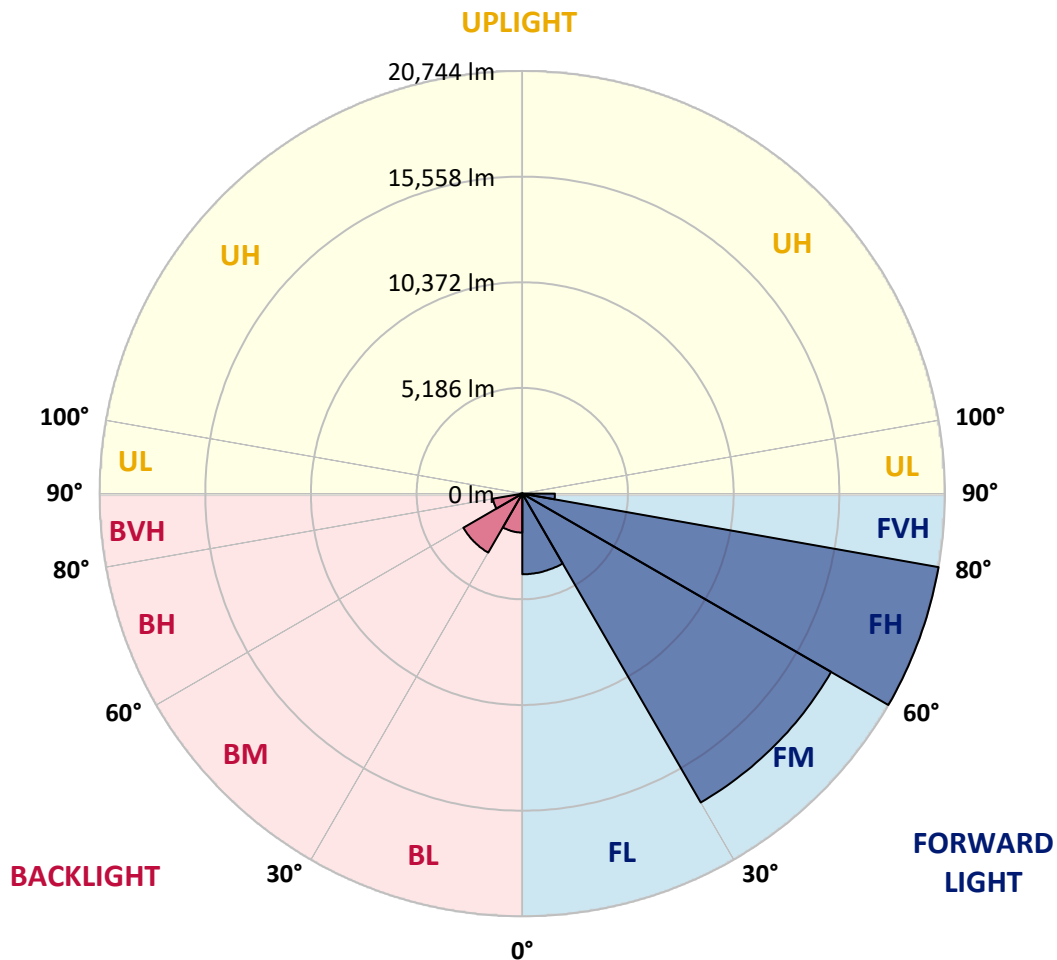
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3956.2	7.8			
FM (30°-60°)	17501.6	34.6			
FH (60°-80°)	20744.0	41.0			G5
FVH (80°-90°)	1603.0	3.2			G5
BL (0°-30°)	1909.0	3.8	B3/2500		
BM (30°-60°)	3340.0	6.6	B3/5000		
BH (60°-80°)	1462.3	2.9	B3/2500		G3/2500
BVH (80°-90°)	91.9	0.2			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°	38°	45°	55°	65°	75°	85°
0°	8891.0	8891.0	8891.0	8891.0	8891.0	8891.0	8891.0	8891.0	8891.0	8891.0	8891.0
2.5°	9248.2	9293.9	9271.1	9239.6	9219.6	9199.6	9171.0	9088.2	9022.4	8951.0	8839.5
5°	9316.8	9345.4	9325.4	9285.4	9239.6	9219.6	9165.3	9056.7	8951.0	8831.0	8665.2
7.5°	9276.8	9288.2	9265.4	9216.8	9176.8	9139.6	9076.7	8956.7	8828.1	8682.3	8465.1
10°	9133.9	9176.8	9176.8	9136.7	9096.7	9076.7	9013.9	8899.5	8782.4	8616.6	8359.4
12.5°	9016.7	9062.4	9099.6	9088.2	9085.3	9085.3	9036.7	8951.0	8813.8	8656.6	8350.8
15°	8936.7	8991.0	9071.0	9116.7	9145.3	9153.9	9133.9	9059.6	8919.5	8736.6	8385.1
17.5°	8919.5	8985.3	9131.0	9231.1	9305.4	9302.5	9296.8	9193.9	9039.6	8851.0	8428.0
20°	8996.7	9082.4	9285.4	9442.5	9551.1	9531.1	9499.7	9365.4	9185.3	8973.8	8468.0
22.5°	9228.2	9316.8	9539.7	9711.2	9816.9	9816.9	9722.6	9545.4	9353.9	9116.7	8522.3
25°	9559.7	9656.9	9894.1	10068.4	10117.0	10079.9	9985.5	9771.2	9551.1	9322.5	8636.6
27.5°	9965.5	10082.7	10302.8	10448.5	10434.2	10405.7	10308.5	10034.1	9814.1	9605.4	8831.0
30°	10471.4	10557.1	10785.8	10820.1	10768.6	10762.9	10625.7	10351.4	10145.6	9985.5	9108.2
32.5°	10948.7	11025.8	11208.7	11223.0	11131.6	11143.0	11014.4	10762.9	10645.7	10588.6	9574.0
35°	11454.5	11494.5	11651.7	11634.6	11574.5	11566.0	11514.5	11274.5	11311.6	11414.5	10234.2
37.5°	11877.5	11957.5	12046.1	12060.4	12057.5	12086.1	12120.4	12006.1	12220.4	12543.4	11100.1
40°	12266.2	12334.8	12466.2	12511.9	12623.4	12680.6	12797.7	12800.6	13295.0	13826.6	12166.1
42.5°	12529.1	12646.3	12892.0	12974.9	13246.4	13417.9	13592.2	13778.0	14495.3	15178.4	13423.6
45°	12757.7	12912.1	13320.7	13577.9	13946.6	14155.2	14523.9	14912.6	15944.3	16838.8	14701.1
47.5°	13103.5	13240.7	13709.4	14163.8	14721.1	14961.2	15512.8	16092.9	17441.8	18422.1	15924.3
50°	13583.7	13666.5	14143.8	14884.0	15595.6	15904.3	16633.1	17470.4	19042.3	19985.4	16998.9
52.5°	14198.1	14232.4	14612.5	15598.5	16535.9	16918.8	17884.8	18862.2	20442.7	21342.9	17850.5
55°	14924.0	14866.9	15164.1	16355.8	17610.5	18110.6	19148.0	20271.2	22017.4	22440.3	18470.7
57.5°	15641.4	15552.8	15790.0	17276.1	18936.5	19539.6	20748.4	21723.0	23423.5	23466.3	18905.1
60°	16401.6	16335.8	16618.8	18356.4	20562.7	21277.2	22394.6	23229.1	24783.8	24180.8	18973.7
62.5°	17181.8	17076.0	17479.0	19571.0	22394.6	23043.4	24126.5	24829.5	26118.5	24446.6	18313.5
65°	17939.1	17890.5	18513.6	21014.2	24480.9	25218.2	26269.9	26747.2	27187.3	24046.5	16675.9
67.5°	18745.1	18842.2	19836.8	22940.5	27201.6	28127.6	29262.2	28813.5	27493.1	22151.7	14043.8
70°	19974.0	20036.8	21574.4	25464.0	30708.3	31825.7	32374.4	29548.0	26018.4	18553.6	10557.1
72.5°	20502.7	20779.9	23126.2	28113.3	34692.2	35375.2	33420.4	27910.4	21674.4	12603.4	5547.2
73°	20385.5	20717.0	23197.7	28516.3	35003.7	35721.1	33197.5	27067.3	20148.3	10854.4	4755.6
75°	18925.1	19333.8	22268.9	28179.0	34397.8	33969.2	29613.7	23069.1	13615.1	4935.6	2166.3
77.5°	14932.6	15049.8	17644.8	22754.7	27087.3	26292.8	22163.1	14418.2	5561.5	1834.8	1228.9
80°	7490.6	7922.1	9945.5	13034.9	18113.5	17853.4	13989.5	6819.0	2317.8	1077.4	814.5
82.5°	3603.8	3909.6	4844.2	6356.0	10008.4	9771.2	6927.6	3726.7	1471.8	628.7	480.1
85°	2320.6	2549.3	3083.7	3032.2	4115.4	3929.6	3112.3	2820.8	871.7	328.7	334.4
87.5°	1531.8	1677.6	2012.0	1609.0	1497.5	1354.7	1374.7	1589.0	171.5	125.7	45.7
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°	8891.0	8891.0	8891.0	8891.0	8891.0	8891.0	8891.0	8891.0	8891.0	8891.0	8891.0
2.5°	8793.8	8756.6	8633.8	8513.7	8399.4	8290.8	8219.4	8125.0	8062.2	8079.3	8105.0
5°	8573.7	8490.9	8273.7	8062.2	7862.1	7624.9	7433.4	7279.1	7161.9	7119.1	7110.5
7.5°	8342.2	8202.2	7890.7	7527.7	7187.7	6893.3	6553.2	6384.6	6187.4	6118.8	6095.9
10°	8202.2	8013.6	7576.3	7070.5	6558.9	6070.2	5701.5	5401.5	5130.0	5078.5	5052.8
12.5°	8162.2	7913.6	7324.8	6673.2	5993.0	5392.9	4847.0	4452.6	4189.7	4129.7	4041.1
15°	8139.3	7830.7	7090.5	6273.1	5410.0	4678.4	4104.0	3643.8	3403.8	3243.7	3246.6
17.5°	8119.3	7736.4	6827.6	5835.9	4907.0	4064.0	3429.5	3015.1	2795.0	2709.3	2700.7
20°	8090.8	7624.9	6524.6	5375.7	4332.6	3503.8	2929.4	2620.7	2472.1	2400.6	2397.8
22.5°	8079.3	7516.3	6227.4	4907.0	3823.9	3072.3	2597.8	2380.6	2286.3	2237.7	2237.7
25°	8107.9	7439.1	5915.9	4461.2	3372.3	2703.6	2369.2	2220.6	2166.3	2140.6	2132.0
27.5°	8196.5	7404.9	5607.2	4015.4	2957.9	2452.1	2214.9	2112.0	2072.0	2052.0	2054.8
30°	8365.1	7402.0	5304.3	3575.2	2649.3	2260.6	2092.0	2020.5	1989.1	1977.7	1974.8
32.5°	8636.6	7464.9	5007.1	3212.3	2389.2	2100.6	1977.7	1926.2	1911.9	1903.4	1900.5
35°	9096.7	7642.1	4712.7	2880.8	2189.2	1957.7	1869.1	1843.4	1823.3	1831.9	1834.8
37.5°	9716.9	7947.9	4432.6	2620.7	2037.7	1851.9	1777.6	1754.8	1743.3	1751.9	1760.5
40°	10548.6	8388.0	4198.3	2412.1	1929.1	1763.3	1697.6	1677.6	1666.2	1680.5	1683.3
42.5°	11465.9	8896.7	4003.9	2249.2	1840.5	1689.0	1626.2	1603.3	1594.7	1603.3	1606.1
45°	12409.1	9488.3	3903.9	2132.0	1766.2	1634.7	1569.0	1543.3	1523.3	1517.6	1526.1
47.5°	13337.9	10002.7	3901.1	2060.6	1706.2	1586.1	1514.7	1486.1	1460.4	1446.1	1443.2
50°	14095.2	10411.4	3969.6	2029.1	1654.7	1531.8	1460.4	1431.8	1397.5	1368.9	1374.7
52.5°	14666.8	10677.2	4001.1	2014.8	1626.2	1474.7	1403.2	1377.5	1337.5	1300.4	1300.4
55°	15035.5	10740.0	3923.9	2000.5	1603.3	1414.7	1337.5	1314.6	1274.6	1237.5	1237.5
57.5°	15161.2	10545.7	3646.7	1966.2	1580.4	1363.2	1271.8	1251.8	1220.3	1183.2	1177.5
60°	14869.7	9888.4	3160.9	1863.4	1534.7	1308.9	1200.3	1191.7	1180.3	1148.9	1146.0
62.5°	13746.6	8493.7	2632.1	1729.0	1457.5	1251.8	1134.6	1148.9	1157.5	1140.3	1137.4
65°	11877.5	6896.1	2249.2	1543.3	1354.7	1171.7	1063.1	1100.3	1123.2	1123.2	1117.4
67.5°	9634.0	5295.7	1894.8	1383.2	1226.0	1063.1	983.1	1011.7	1028.8	1023.1	1037.4
70°	6847.6	3586.7	1543.3	1200.3	1063.1	940.3	880.2	880.2	868.8	863.1	863.1
72.5°	3320.9	2049.1	1251.8	1003.1	906.0	803.1	754.5	734.5	711.6	708.8	694.5
73°	2775.0	1837.6	1194.6	966.0	868.8	783.1	728.8	697.3	683.0	671.6	668.8
75°	1689.0	1394.7	997.4	814.5	740.2	674.5	625.9	597.3	583.0	574.4	571.6
77.5°	1111.7	1040.3	774.5	623.0	565.9	525.9	505.9	477.3	468.7	457.3	457.3
80°	828.8	794.5	554.4	440.1	405.8	371.5	365.8	360.1	337.2	322.9	317.2
82.5°	534.4	565.9	377.2	294.4	257.2	228.6	231.5	240.1	217.2	197.2	191.5
85°	380.1	408.7	228.6	134.3	108.6	94.3	105.7	94.3	97.2	77.2	62.9
87.5°	62.9	108.6	40.0	17.1	8.6	5.7	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	0.0

(END OF REPORT)