

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: P459274

Luminaire Tested: **GALN-SA7C-735-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45533 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

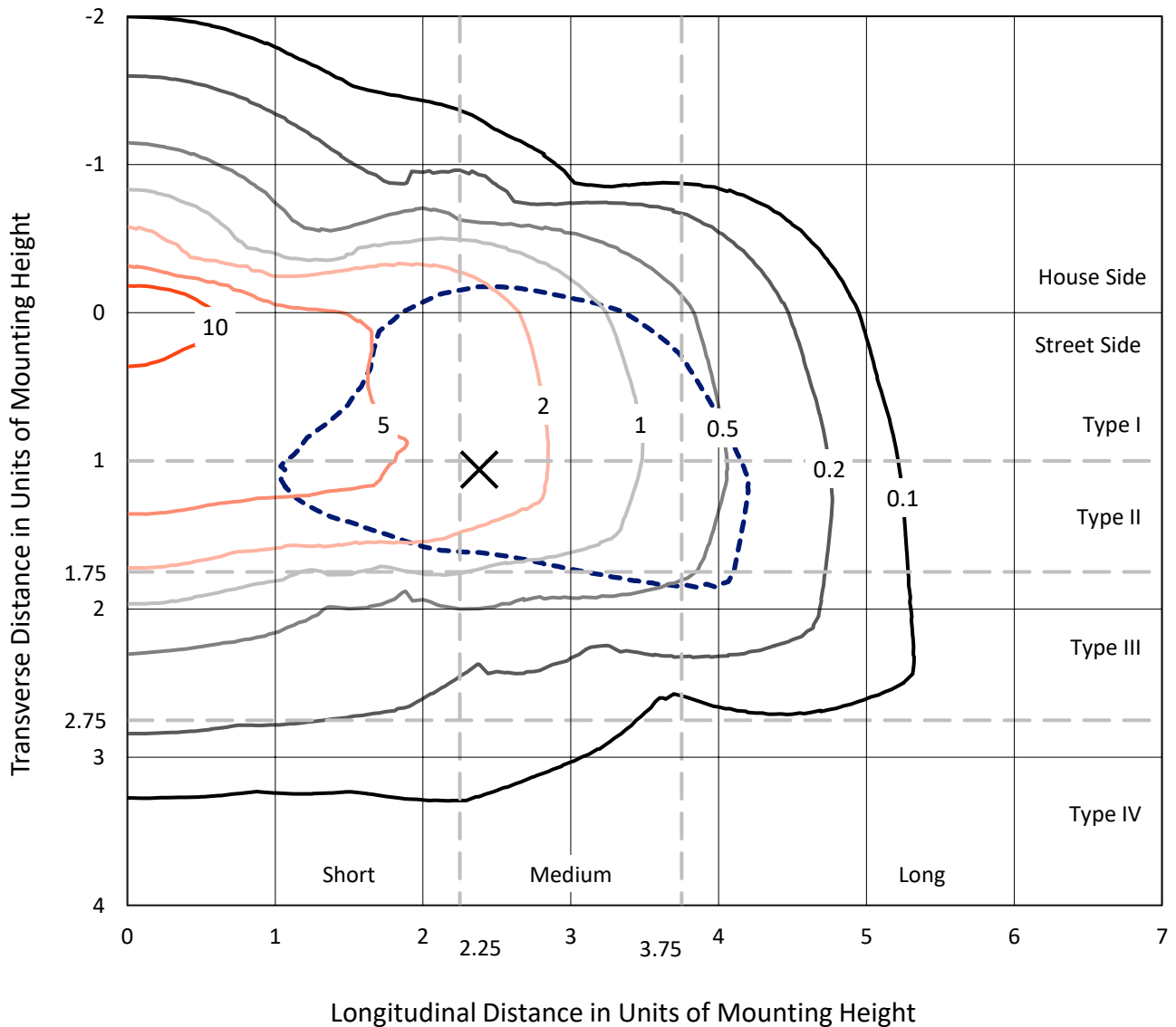
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

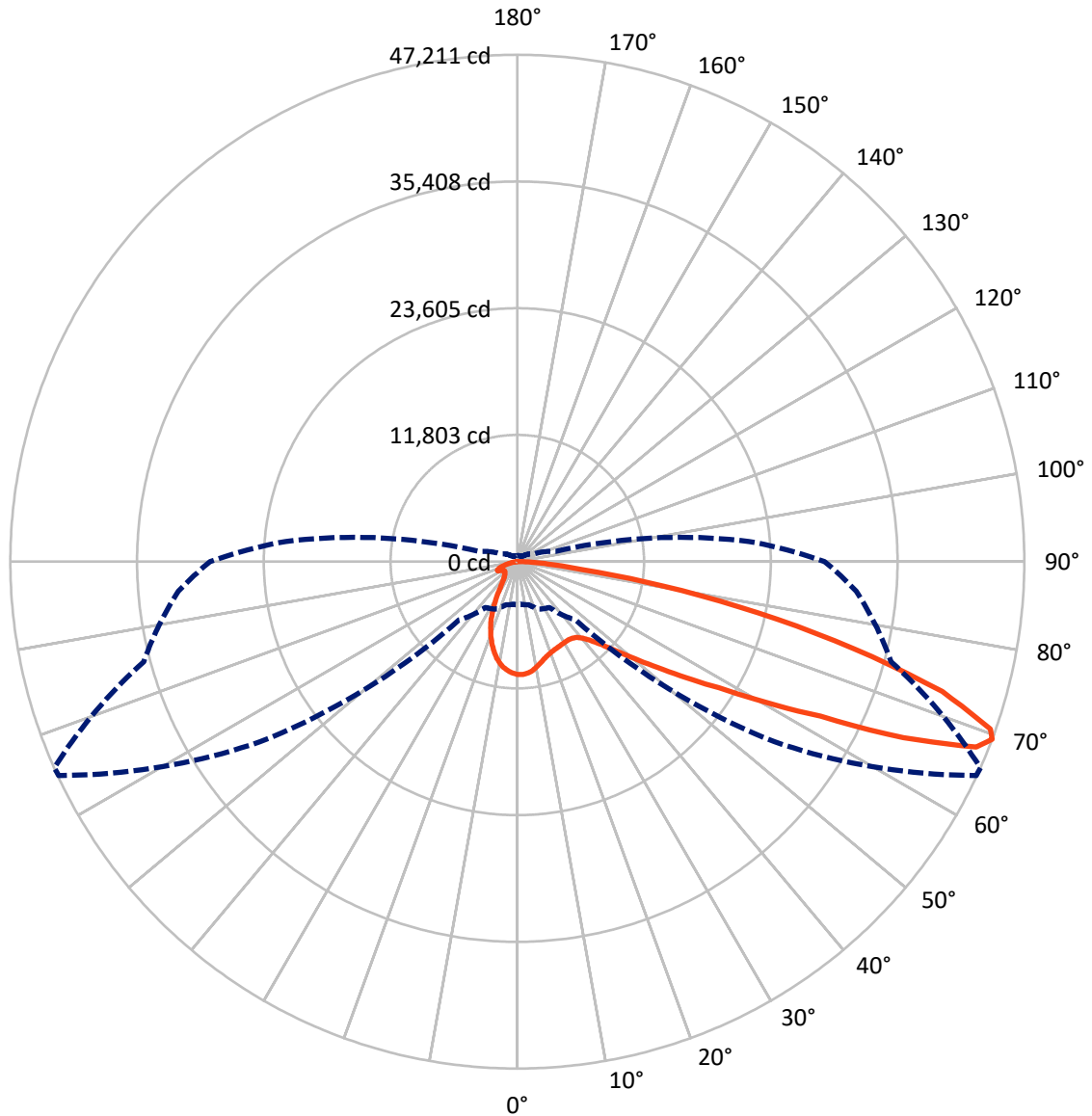
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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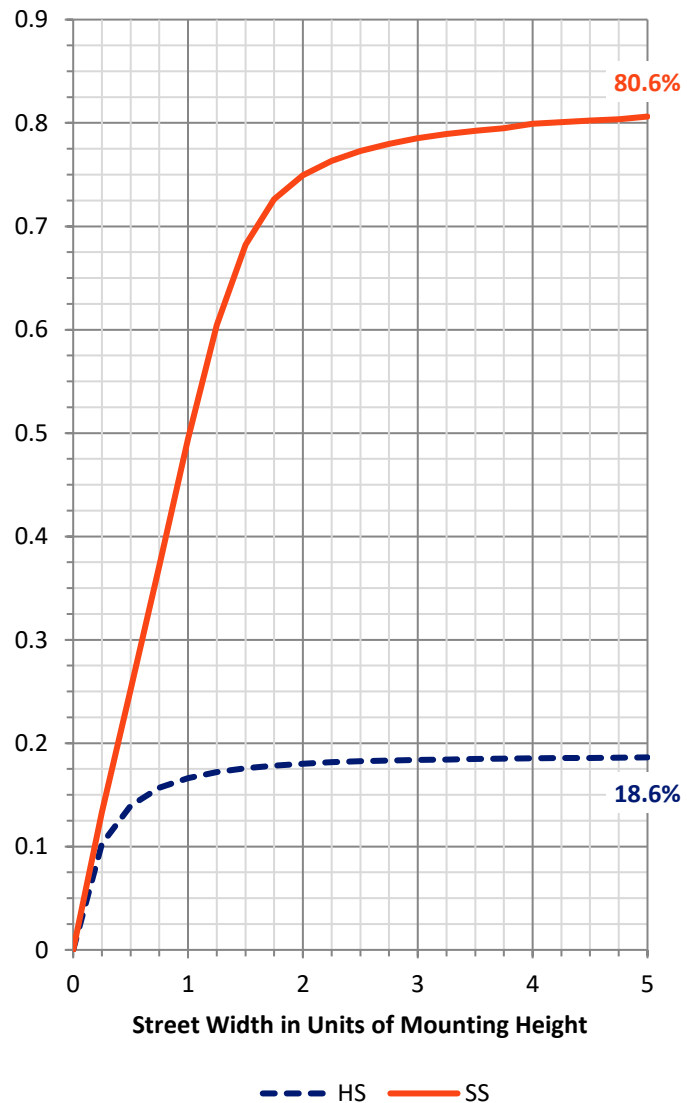
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8563.0	0.0	8563.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	36970.0	0.0	36970.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	45533.0	0.0	45533.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	913.1	2.0
10°-20°	2165.8	4.8
20°-30°	2948.4	6.5
30°-40°	3962.1	8.7
40°-50°	5916.0	13.0
50°-60°	9410.4	20.7
60°-70°	11574.3	25.4
70°-80°	7530.8	16.5
80°-90°	1112.1	2.4
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°	45533.0	100.0
0°-180°	45533.0	100.0



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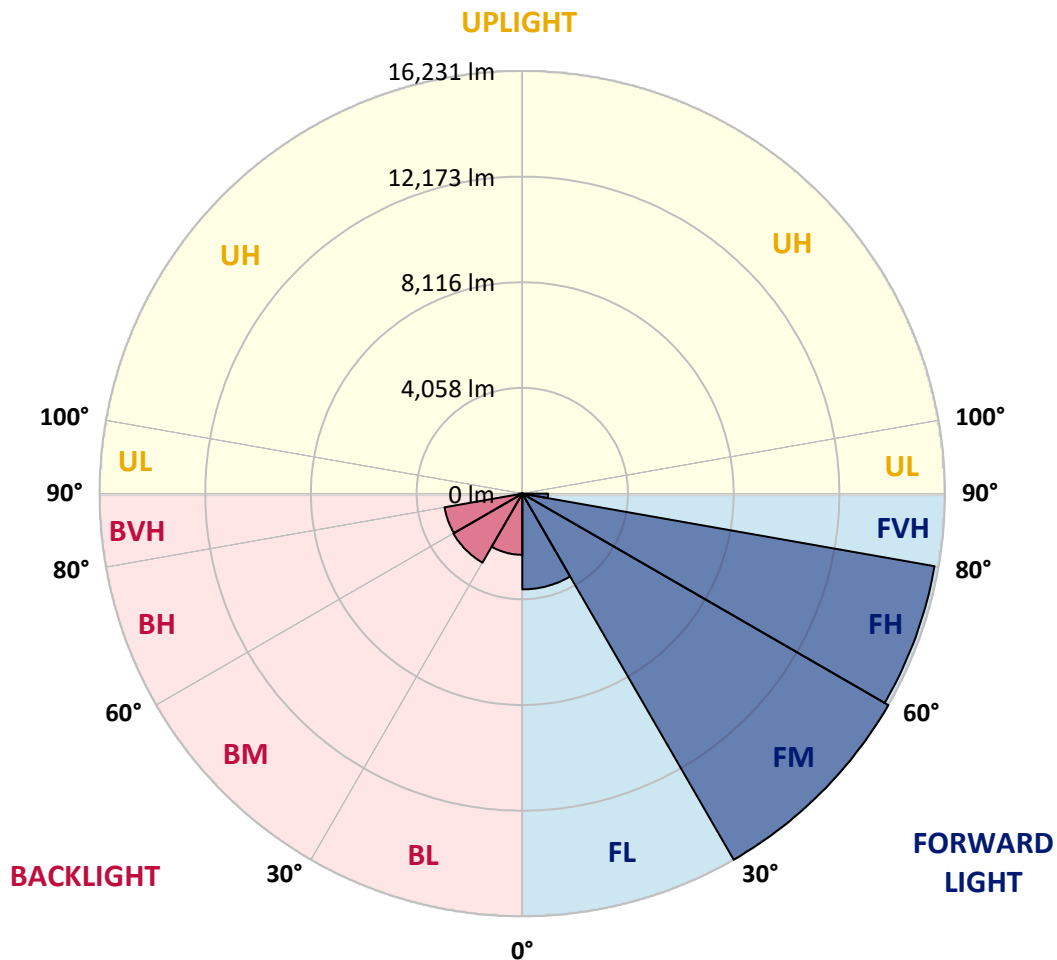
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3676.7	8.1			
FM	(30°-60°)	16231.1	35.6			
FH	(60°-80°)	16073.4	35.3			G5
FVH	(80°-90°)	988.7	2.2			G5
BL	(0°-30°)	2350.6	5.2	B3/2500		
BM	(30°-60°)	3057.4	6.7	B3/5000		
BH	(60°-80°)	3031.7	6.7	B4/5000		G4/5000
BVH	(80°-90°)	123.4	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	10514.8	10514.8	10514.8	10514.8	10514.8	10514.8	10514.8	10514.8	10514.8	10514.8	10514.8
2.5°	10146.7	10187.0	10232.4	10282.9	10378.7	10431.6	10469.4	10512.3	10517.4	10540.1	10522.4
5°	9397.8	9445.7	9513.8	9609.6	9753.3	9977.7	10209.7	10398.8	10421.5	10527.4	10557.7
7.5°	8772.4	8800.2	8855.7	9009.5	9213.7	9463.4	9801.2	10184.5	10240.0	10492.1	10580.4
10°	8263.1	8290.8	8356.4	8515.3	8717.0	9029.6	9400.3	9904.6	9950.0	10383.7	10585.4
12.5°	7882.3	7907.6	7978.2	8134.5	8366.5	8659.0	9067.5	9602.0	9667.6	10240.0	10537.5
15°	7592.4	7640.3	7698.3	7826.9	8071.5	8353.9	8749.8	9324.7	9377.6	10088.7	10504.7
17.5°	7468.8	7491.5	7531.8	7650.4	7829.4	8106.8	8505.2	9107.8	9170.9	9982.8	10497.2
20°	7473.9	7496.5	7504.1	7569.7	7698.3	7937.8	8331.2	8936.3	9012.0	9889.5	10509.8
22.5°	7645.3	7647.8	7620.1	7597.4	7647.8	7847.0	8207.6	8807.8	8896.0	9849.1	10519.9
25°	7910.1	7955.5	7915.1	7809.2	7715.9	7811.7	8159.7	8737.1	8820.4	9791.2	10507.3
27.5°	8338.7	8346.3	8313.5	8169.8	7927.7	7857.1	8139.5	8684.2	8754.8	9748.3	10444.2
30°	8913.7	8891.0	8860.7	8701.8	8321.1	8031.1	8182.4	8636.3	8709.4	9685.2	10368.6
32.5°	9496.1	9566.7	9539.0	9352.4	8858.2	8369.0	8321.1	8631.2	8691.8	9637.3	10285.4
35°	10113.9	10146.7	10277.8	10182.0	9675.2	8916.2	8580.8	8709.4	8757.3	9639.9	10227.4
37.5°	10598.0	10686.3	10993.9	11077.1	10600.6	9639.9	9001.9	8931.3	8951.5	9763.4	10250.1
40°	11183.0	11334.3	11730.2	12070.6	11758.0	10580.4	9718.0	9342.3	9367.5	10061.0	10398.8
42.5°	11924.4	12030.3	12562.3	13023.8	12973.3	11823.5	10585.4	10015.6	10028.2	10653.5	10814.9
45°	12791.8	12943.1	13540.7	14234.1	14352.6	13230.5	11838.6	11034.3	11026.7	11573.9	11591.5
47.5°	13901.3	13994.6	14587.1	15343.6	15822.7	14998.1	13359.1	12496.8	12416.1	12915.3	12771.6
50°	14922.5	15068.7	15517.6	16344.6	17537.3	17068.3	15358.7	14393.0	14203.9	14670.3	14428.3
52.5°	15351.2	15505.0	15883.2	16909.5	19007.4	19746.2	17897.9	16654.8	16339.6	16697.7	16609.4
55°	14607.3	14806.5	15159.5	16407.7	19652.9	22835.1	21322.2	19269.6	19040.2	18886.4	18911.6
57.5°	12607.7	12796.8	13273.4	14650.2	18881.3	25076.7	26211.4	22630.8	22139.1	21430.6	21551.6
60°	9597.0	9715.5	9962.6	11488.2	16594.3	25659.2	31763.9	26879.6	26567.0	23964.7	24050.5
62.5°	6815.7	6949.4	7120.8	7882.3	12148.8	24017.7	36111.0	32812.8	31695.8	26589.7	26506.5
65°	5534.8	5444.0	5650.8	6006.3	7128.4	18614.0	37089.4	41048.2	39510.1	30046.7	28891.8
67.5°	4551.4	4455.6	4659.8	5292.7	5421.3	10804.8	33564.3	46393.9	46086.2	33806.3	31315.0
69°	4029.4	3979.0	4158.0	4879.2	5204.5	7673.1	29239.8	47137.7	47210.9	36022.8	31688.2
70°	3631.0	3651.2	3825.2	4669.9	5106.1	6326.6	24991.0	46111.5	46731.8	37129.7	31284.8
72.5°	2672.8	2715.7	2957.8	3868.0	5012.8	5368.4	14872.1	40276.6	41373.5	37195.3	28619.5
75°	1868.5	1848.3	2062.6	2912.4	4735.5	5320.5	8734.6	31148.6	32391.7	32149.7	24048.0
77.5°	1222.9	1255.7	1427.2	2057.6	3984.0	5280.1	5693.6	22098.8	22905.7	21501.2	14224.0
80°	862.4	859.8	955.7	1404.5	2955.2	5073.3	4662.3	13929.0	13724.8	8449.7	4218.5
82.5°	494.2	529.5	640.5	988.4	1976.9	4465.7	4289.1	6661.9	6082.0	2408.1	1424.7
85°	274.8	287.5	380.8	597.6	1154.9	3363.7	3744.5	3030.9	2859.4	1006.1	612.7
87.5°	88.3	95.8	158.9	302.6	524.5	1588.6	2120.6	1399.5	1291.0	363.1	247.1
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°	10514.8	10514.8	10514.8	10514.8	10514.8	10514.8	10514.8	10514.8	10514.8	10514.8	10514.8
2.5°	10530.0	10560.2	10479.5	10401.4	10330.8	10232.4	10144.2	10071.0	10020.6	10013.0	9987.8
5°	10565.3	10567.8	10414.0	10207.2	10005.5	9783.6	9554.1	9390.2	9236.4	9150.7	9107.8
7.5°	10590.5	10567.8	10290.4	9955.1	9566.7	9163.3	8759.8	8437.1	8187.5	8089.1	8126.9
10°	10580.4	10509.8	10103.8	9566.7	9001.9	8399.3	7819.3	7365.4	6949.4	6735.0	6740.1
12.5°	10524.9	10408.9	9826.5	9130.5	8300.9	7494.0	6606.4	5993.7	5512.1	5227.2	5138.9
15°	10477.0	10275.3	9501.2	8537.9	7506.6	6354.3	5272.5	4516.1	4112.6	3888.2	3885.7
17.5°	10426.6	10146.7	9145.6	7910.1	6593.8	5111.2	3976.5	3399.0	3209.9	3232.6	3194.8
20°	10373.6	9995.4	8775.0	7211.6	5481.8	3812.6	2977.9	2743.4	2796.4	2899.8	2914.9
22.5°	10313.1	9834.0	8376.6	6442.5	4311.8	2869.5	2415.6	2380.3	2516.5	2677.9	2700.6
25°	10219.8	9632.3	7874.8	5638.2	3325.9	2312.3	2115.6	2140.8	2274.4	2410.6	2425.7
27.5°	10088.7	9382.7	7367.9	4634.6	2498.8	1984.5	1934.0	1966.8	2032.4	2115.6	2135.7
30°	9912.2	9100.2	6785.5	3767.2	2002.1	1820.6	1800.4	1818.0	1855.9	1891.2	1901.2
32.5°	9735.7	8827.9	6198.0	2884.6	1785.3	1712.1	1692.0	1692.0	1692.0	1697.0	1699.5
35°	9571.8	8570.7	5567.6	2246.7	1671.8	1626.4	1598.7	1568.4	1563.4	1545.7	1545.7
37.5°	9481.0	8336.2	4896.8	1881.1	1588.6	1555.8	1518.0	1467.5	1439.8	1442.3	1437.3
40°	9498.7	8182.4	4286.6	1674.3	1520.5	1485.2	1427.2	1369.2	1351.5	1351.5	1346.5
42.5°	9697.9	8132.0	3701.6	1565.9	1454.9	1414.6	1341.5	1288.5	1278.4	1275.9	1280.9
45°	10156.8	8255.5	3177.1	1495.3	1399.5	1338.9	1265.8	1217.9	1207.8	1207.8	1205.3
47.5°	11051.9	8656.5	2801.4	1449.9	1359.1	1280.9	1205.3	1157.4	1139.7	1134.7	1134.7
50°	12443.8	9526.4	2521.5	1409.5	1308.7	1228.0	1149.8	1094.3	1066.6	1064.1	1061.6
52.5°	14377.8	10883.0	2413.1	1379.3	1253.2	1172.5	1086.8	1033.8	998.5	991.0	985.9
55°	16639.7	12776.7	2561.9	1356.6	1195.2	1109.5	1021.2	965.8	933.0	917.8	915.3
57.5°	19259.5	15051.1	3126.7	1326.3	1142.3	1041.4	955.7	900.2	864.9	847.2	842.2
60°	21612.1	17388.6	4112.6	1308.7	1096.9	968.3	880.0	829.6	796.8	779.2	776.6
62.5°	24196.7	19617.6	5290.2	1356.6	1076.7	897.7	809.4	764.0	736.3	718.6	718.6
65°	26957.8	21849.2	6069.4	1518.0	1107.0	842.2	733.8	695.9	670.7	658.1	655.6
67.5°	28818.7	22620.8	5000.2	1684.4	1182.6	781.7	660.6	630.4	615.3	602.6	602.6
69°	28617.0	21644.9	3689.0	1727.3	1205.3	751.4	620.3	597.6	577.4	572.4	567.3
70°	27979.0	20532.9	3091.4	1699.5	1187.6	723.7	595.1	567.3	549.7	544.7	542.1
72.5°	24920.4	17807.1	2302.2	1477.6	1011.1	627.9	527.0	501.8	486.7	479.1	479.1
75°	20704.4	14554.3	1797.9	1175.0	791.8	529.5	451.4	431.2	418.6	413.5	411.0
77.5°	11604.1	8126.9	1291.0	920.4	600.1	428.7	378.2	360.6	348.0	342.9	342.9
80°	3232.6	2322.3	759.0	607.7	408.5	325.3	300.1	287.5	269.8	257.2	264.8
82.5°	1217.9	1006.1	433.7	365.6	259.7	216.9	209.3	199.2	191.6	174.0	174.0
85°	592.6	489.2	277.4	194.2	143.7	113.5	108.4	103.4	98.3	85.7	88.3
87.5°	204.2	216.9	121.0	70.6	42.9	27.7	22.7	12.6	12.6	12.6	12.6
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)