

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: P651559

Luminaire Tested: **GALN-SA8D-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651559  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-840-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30663.7 lumens  
Efficiency: N/A  
Efficacy: 62.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

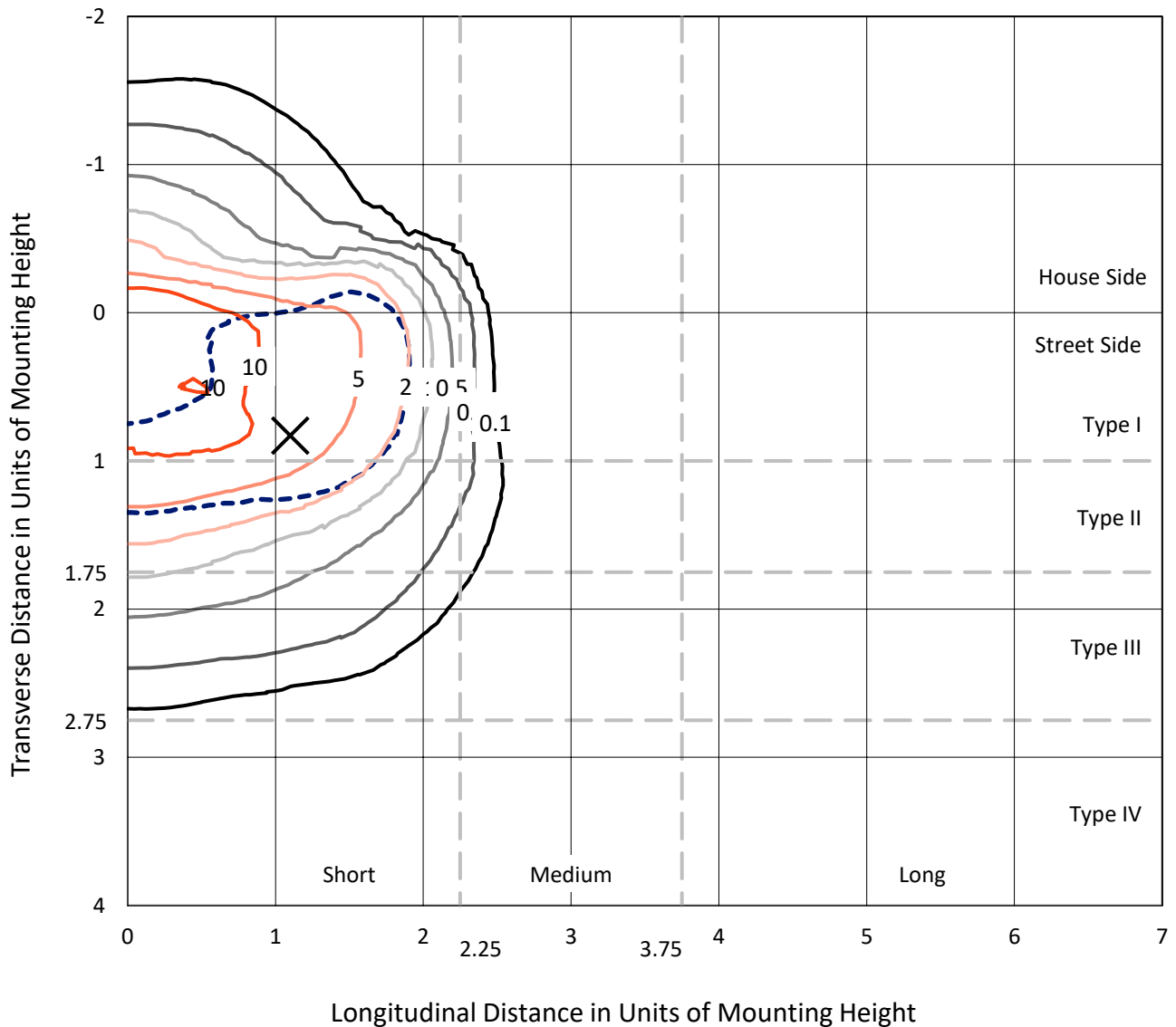
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

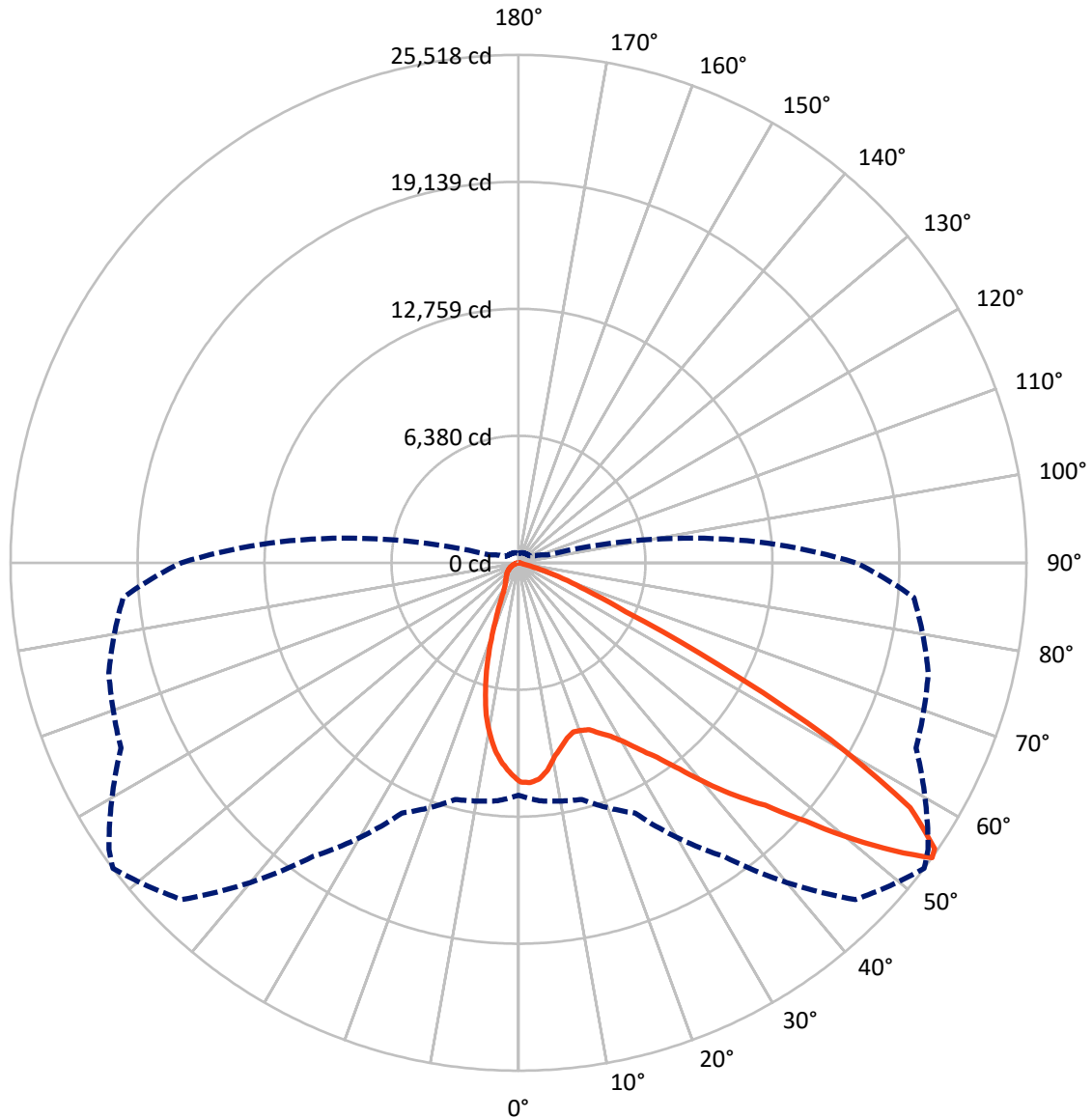
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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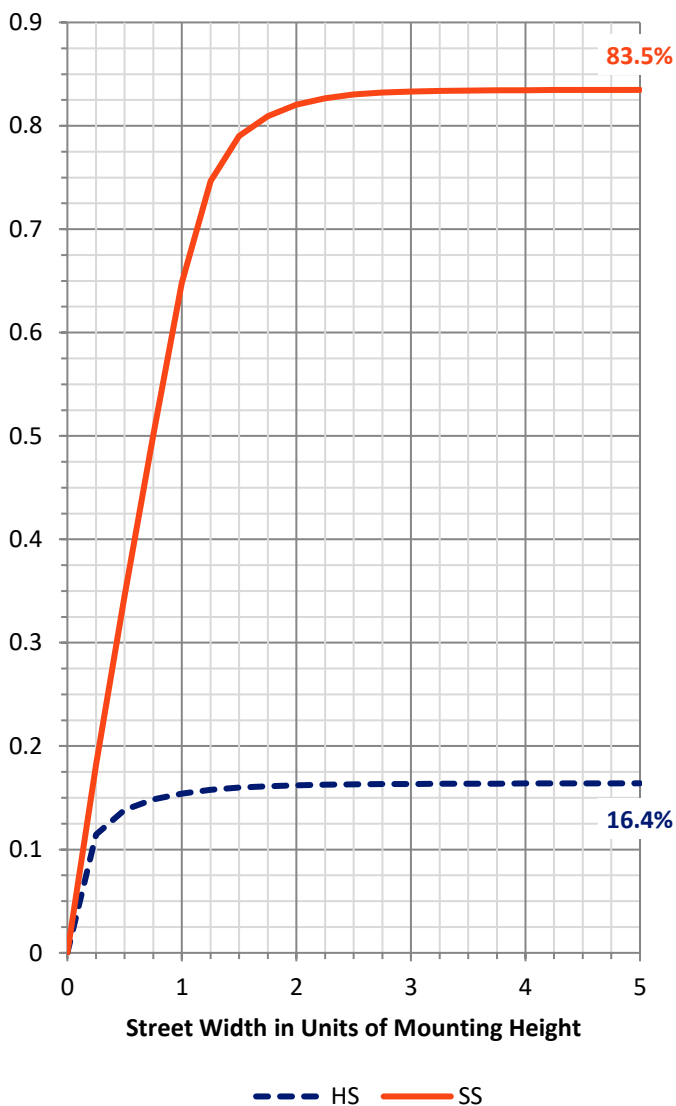
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5073.4	0.0	5073.4
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	25590.3	0.0	25590.3
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	30663.7	0.0	30663.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	945.0	3.1
10°-20°	2166.5	7.1
20°-30°	3079.1	10.0
30°-40°	4751.8	15.5
40°-50°	7450.4	24.3
50°-60°	8654.7	28.2
60°-70°	3270.3	10.7
70°-80°	311.0	1.0
80°-90°	35.0	0.1
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°	30663.7	100.0
0°-180°	30663.7	100.0

**Coefficient of Utilization**

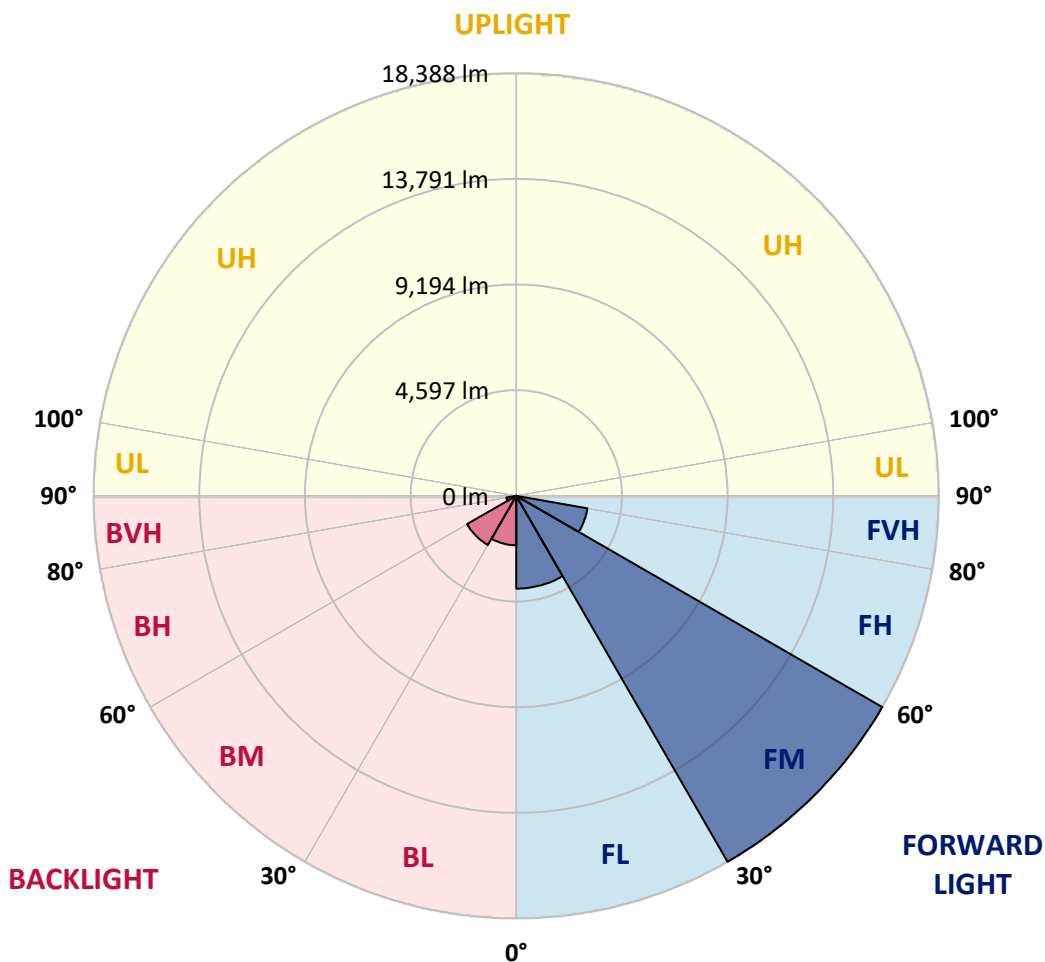


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4037.6	13.2			
FM (30°-60°)	18388.1	60.0			
FH (60°-80°)	3146.6	10.3			G2/5000
FVH (80°-90°)	18.1	0.1			G1/100
BL (0°-30°)	2152.9	7.0	B3/2500		
BM (30°-60°)	2468.9	8.1	B2/2500		
BH (60°-80°)	434.7	1.4	B1/500		G1/500
BVH (80°-90°)	16.9	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	11013.9	11013.9	11013.9	11013.9	11013.9	11013.9	11013.9	11013.9	11013.9	11013.9	11013.9
2.5°	10956.8	10859.7	10956.8	10968.2	11036.7	11099.6	11059.6	11151.0	11099.6	11042.4	11025.3
5°	10071.3	10202.7	10208.4	10414.1	10368.4	10745.4	10911.0	10865.4	11145.3	11128.1	11088.2
7.5°	9277.2	9225.9	9294.4	9534.3	9837.1	10271.2	10511.2	10505.4	10905.3	11190.9	11162.4
10°	8540.4	8534.6	8677.4	8866.0	9123.0	9580.0	9911.4	10077.0	10699.7	11133.8	11196.7
12.5°	8043.3	8020.4	8174.7	8328.9	8734.5	9088.8	9511.5	9591.4	10305.5	10933.9	11036.7
15°	7717.7	7769.2	7780.6	8077.6	8334.6	8803.1	9134.4	9300.1	10122.7	10774.0	11168.1
17.5°	7660.6	7729.1	7734.8	7980.5	8254.7	8648.8	8940.3	9163.0	9968.5	10853.9	11173.9
20°	7774.9	7734.8	7769.2	7923.4	8191.8	8568.9	8991.6	9065.9	9917.1	10893.9	11236.7
22.5°	8100.4	8089.1	8003.4	8129.0	8317.6	8711.7	9111.6	9225.9	10065.6	11099.6	11288.1
25°	8460.4	8523.2	8443.2	8426.1	8557.4	8945.9	9477.2	9625.7	10562.6	11470.9	11448.0
27.5°	9134.4	9071.6	9071.6	8991.6	8957.3	9145.9	9871.4	10117.0	11116.7	11950.8	11630.9
30°	9780.0	9848.5	9797.1	9825.7	9597.2	9580.0	10431.2	10733.9	12099.3	12681.9	12019.3
32.5°	10802.5	10711.1	10796.8	10722.6	10419.7	10111.3	11190.9	11505.1	13287.5	13521.7	12602.0
35°	11653.7	11613.7	11979.3	11967.9	11476.6	11173.9	11996.4	12464.9	14115.8	14527.1	13287.5
37.5°	12864.8	12790.5	13207.5	13407.5	12967.6	12516.3	13150.4	13693.1	14887.0	15332.6	13990.1
40°	14110.1	14298.6	14858.5	15189.8	14721.4	14121.6	14561.4	14727.1	15401.1	15858.1	14470.0
42.5°	15686.8	15961.0	16532.2	16817.9	16777.9	16126.7	15995.2	15989.6	15772.5	15709.6	14824.2
45°	17200.6	17097.8	17977.6	18600.2	19102.9	18914.4	17377.8	17206.4	16360.9	15932.4	14915.6
47.5°	17863.3	17829.0	18428.8	19537.1	21250.9	21485.1	19388.6	18725.9	17354.9	16869.3	15412.6
50°	17006.4	17183.5	17777.6	19005.8	21633.6	23421.7	21856.4	20965.2	18514.5	18011.8	16589.4
52.5°	14207.3	14327.2	14892.8	16452.3	20331.1	24564.2	24221.4	23707.3	20645.3	19811.3	18640.2
54°	11682.2	12002.2	12310.6	13875.9	18011.8	23930.1	25518.1	25124.0	22033.4	21308.0	19931.3
55°	10174.2	10362.6	10585.4	12145.0	16406.6	22856.1	25369.6	25403.9	22964.6	21776.4	20799.5
57.5°	7432.1	7563.4	7334.9	8026.2	11265.3	18560.2	23204.5	24130.0	24221.4	22479.1	21330.9
60°	5678.3	5735.5	5478.4	5586.9	7003.7	12739.0	17949.0	19062.9	21850.7	19645.6	18069.0
62.5°	4404.4	4415.8	4410.1	4598.7	4827.2	7494.9	11225.2	12213.5	15064.1	13950.2	12270.7
65°	3244.7	3193.4	3284.8	3856.0	4118.8	4712.9	5912.6	6632.3	8186.1	6912.3	4941.4
67.5°	2102.2	2119.4	2210.7	2867.7	3530.3	3616.0	3638.9	3581.8	3587.5	1976.5	1239.6
70°	1262.5	1291.0	1262.5	1622.4	2524.9	2593.6	2370.7	2313.6	1805.2	468.4	462.7
72.5°	748.3	708.4	634.1	696.9	1051.1	1256.8	1131.1	1125.3	708.4	274.2	274.2
75°	314.2	285.6	234.2	211.3	279.9	268.5	268.5	239.9	188.6	182.8	171.4
77.5°	62.8	62.8	45.7	51.4	68.5	80.0	97.1	97.1	114.3	114.3	108.6
80°	0.0	5.7	17.2	34.3	51.4	74.3	85.7	85.7	97.1	97.1	80.0
82.5°	0.0	5.7	17.2	34.3	45.7	68.5	85.7	85.7	97.1	102.9	85.7
85°	0.0	5.7	17.2	28.6	45.7	57.1	57.1	51.4	39.9	34.3	22.9
87.5°	0.0	0.0	5.7	11.4	5.7	11.4	11.4	11.4	11.4	11.4	11.4
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°	11013.9	11013.9	11013.9	11013.9	11013.9	11013.9	11013.9	11013.9	11013.9	11013.9	11013.9
2.5°	11065.3	11059.6	10922.5	10699.7	10648.2	10459.8	10436.9	10322.7	10385.5	10174.2	10151.3
5°	10973.9	10905.3	10739.7	10596.9	10179.9	9882.8	9648.5	9362.9	9197.3	9225.9	9117.3
7.5°	11105.3	10928.2	10636.9	10139.9	9631.5	9111.6	8831.7	8248.9	8037.6	7723.4	7677.7
10°	10968.2	10836.8	10385.5	9562.9	8860.3	8111.9	7455.0	6809.4	6318.1	6106.8	6061.1
12.5°	10956.8	10728.2	9974.2	9060.2	8043.3	6969.4	6015.3	5209.9	4724.3	4450.2	4387.2
15°	10779.7	10505.4	9511.5	8283.3	6878.0	5541.2	4501.5	3724.6	3353.3	3193.4	3239.0
17.5°	10796.8	10385.5	9048.7	7460.7	5729.7	4067.3	3073.4	2673.5	2576.4	2616.4	2616.4
20°	10779.7	10117.0	8488.9	6512.4	4387.2	2822.1	2256.5	2113.7	2176.5	2302.2	2273.6
22.5°	10688.3	9991.3	7974.8	5512.7	3227.6	2090.8	1810.9	1816.6	1913.7	2067.9	2102.2
25°	10756.8	9711.4	7323.5	4501.5	2353.6	1668.0	1571.0	1610.9	1713.8	1828.0	1850.9
27.5°	10705.4	9511.5	6643.7	3496.1	1719.5	1433.8	1428.2	1473.9	1519.5	1605.2	1605.2
30°	10762.5	9328.7	5975.4	2599.2	1416.7	1313.9	1291.0	1325.3	1371.0	1388.2	1382.4
32.5°	10973.9	9191.5	5204.2	1942.3	1251.1	1199.7	1199.7	1199.7	1194.0	1216.8	1222.5
35°	11436.6	9214.4	4524.4	1502.4	1142.5	1102.6	1085.4	1062.5	1051.1	1062.5	1068.2
37.5°	11939.3	9203.0	3821.8	1279.6	1062.5	1028.3	988.3	954.0	948.3	959.7	942.6
40°	12162.1	9311.6	3170.5	1148.2	988.3	948.3	885.5	856.9	862.6	874.1	862.6
42.5°	12464.9	9345.8	2747.8	1045.4	919.7	856.9	816.9	782.6	776.9	794.1	788.4
45°	12459.2	9151.6	2302.2	988.3	856.9	788.4	736.9	708.4	708.4	719.8	725.5
47.5°	12824.7	9123.0	1976.5	936.9	811.2	742.6	679.8	657.0	651.3	651.3	639.8
50°	13675.9	9522.9	1725.2	879.8	754.0	691.2	639.8	611.2	588.4	577.0	571.3
52.5°	15338.3	10768.2	1531.0	811.2	691.2	639.8	594.1	571.3	542.7	514.1	508.4
54°	16949.3	12053.5	1519.5	754.0	639.8	605.5	565.6	554.1	519.8	479.9	468.4
55°	17674.8	12802.0	1559.6	708.4	605.5	582.6	548.4	537.0	502.7	457.0	451.3
57.5°	18274.6	13093.3	1536.7	588.4	548.4	542.7	514.1	497.0	457.0	394.2	382.7
60°	14709.9	9899.9	1102.6	519.8	502.7	491.3	468.4	457.0	405.6	337.1	331.4
62.5°	9294.4	5695.4	702.7	457.0	439.8	422.8	394.2	382.7	337.1	268.5	251.4
65°	3958.8	2359.3	474.2	405.6	377.0	348.4	325.6	308.5	268.5	199.9	194.2
67.5°	1028.3	839.7	394.2	354.1	314.2	274.2	257.1	228.5	182.8	137.1	131.4
70°	462.7	422.8	331.4	297.0	251.4	211.3	188.6	160.0	119.9	91.4	85.7
72.5°	274.2	268.5	251.4	222.8	188.6	160.0	137.1	108.6	80.0	51.4	51.4
75°	171.4	165.7	171.4	154.2	131.4	119.9	102.9	74.3	45.7	22.9	22.9
77.5°	102.9	102.9	102.9	97.1	91.4	91.4	74.3	45.7	22.9	5.7	5.7
80°	80.0	80.0	85.7	80.0	80.0	80.0	62.8	34.3	11.4	0.0	0.0
82.5°	80.0	85.7	97.1	91.4	80.0	68.5	57.1	34.3	11.4	0.0	0.0
85°	22.9	17.2	28.6	39.9	57.1	51.4	39.9	28.6	11.4	0.0	0.0
87.5°	11.4	11.4	11.4	11.4	5.7	5.7	5.7	5.7	5.7	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)