

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: P651937

Luminaire Tested: **GALN-SA6A-840-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651937  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-840-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17013.4 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

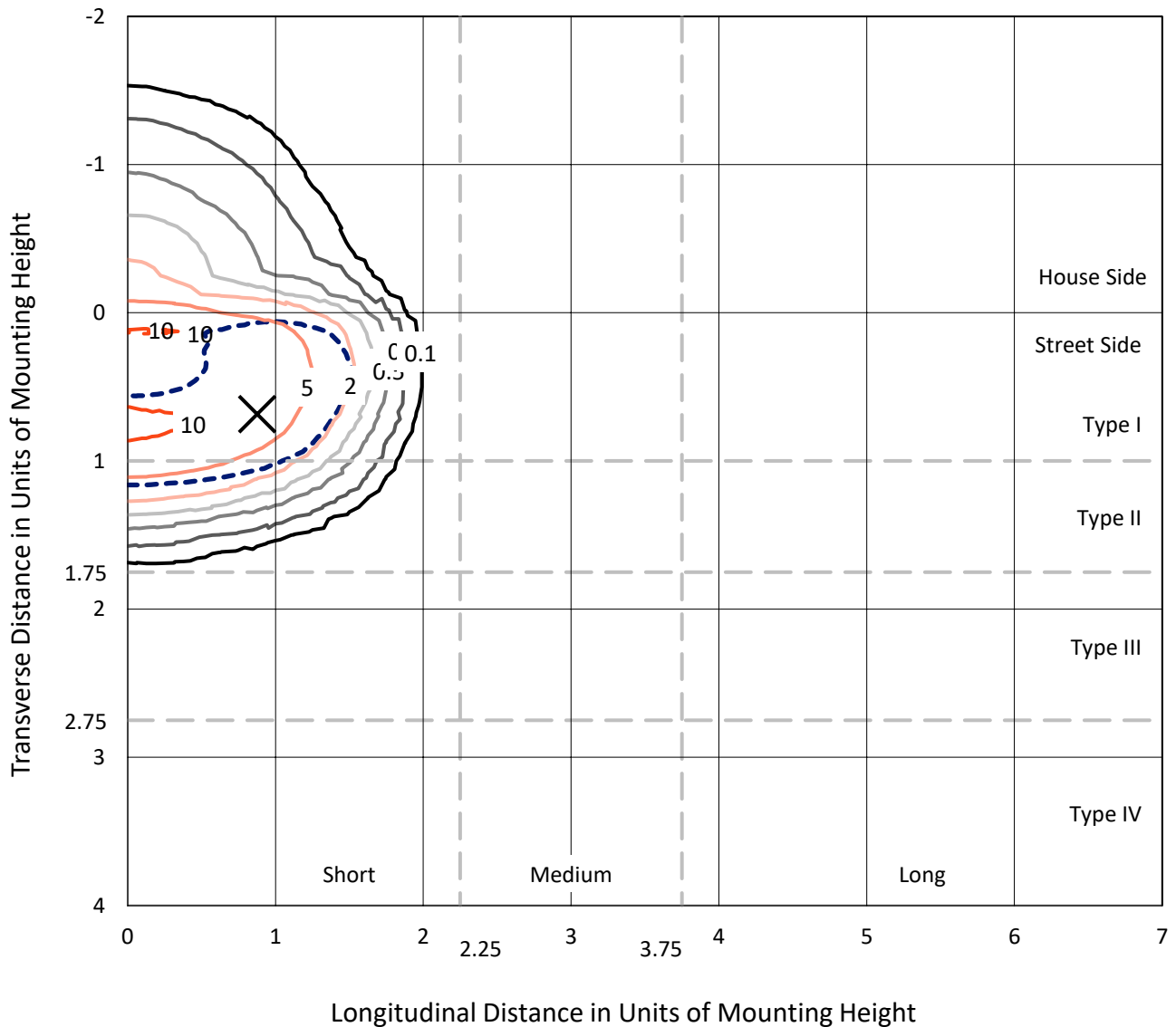
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

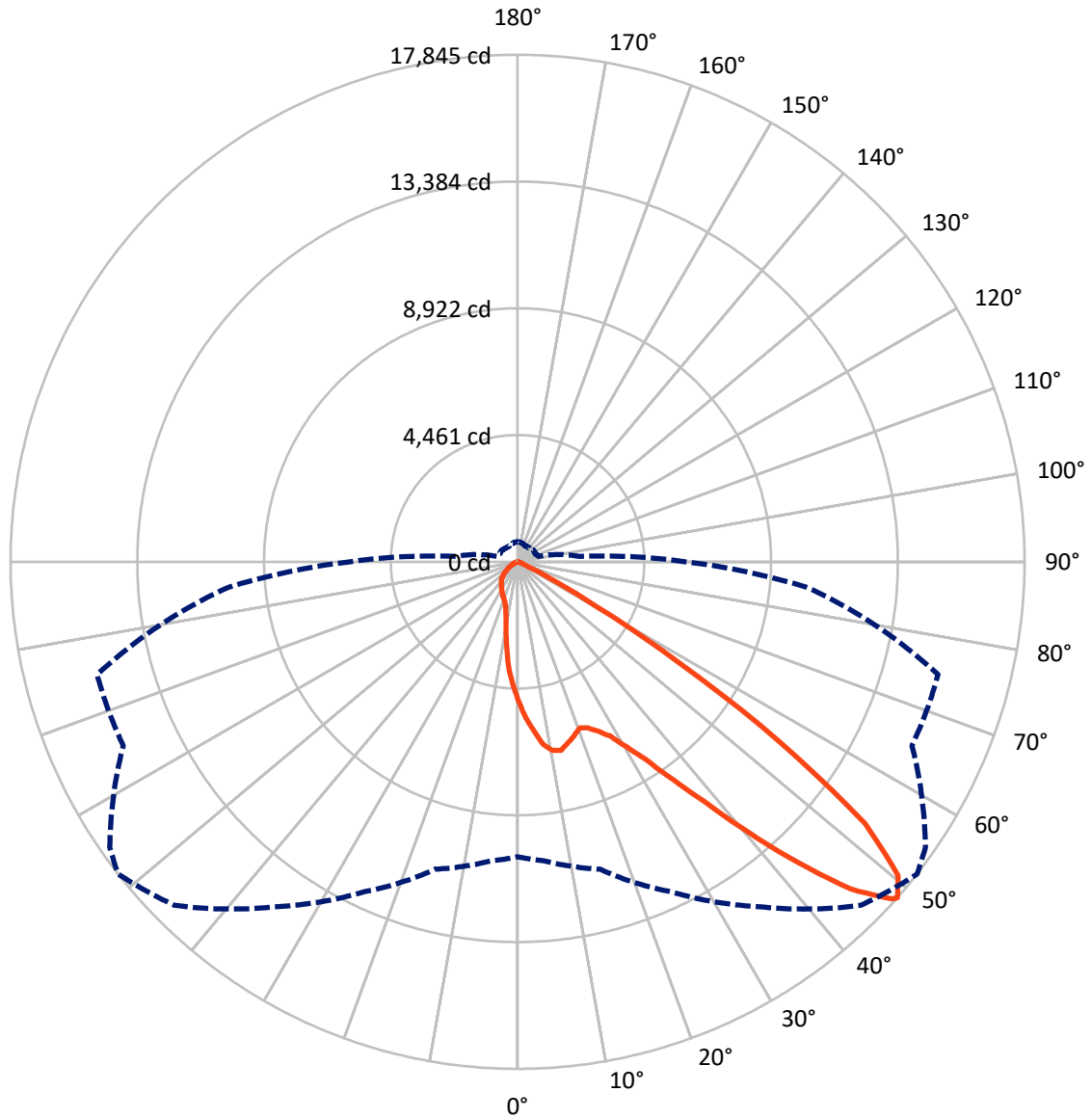
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc  
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA6A-840-U-AFL-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 48-Deg Vertical

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 CATALOG NUMBER: GALN-SA6A-840-U-AFL-GRSBK

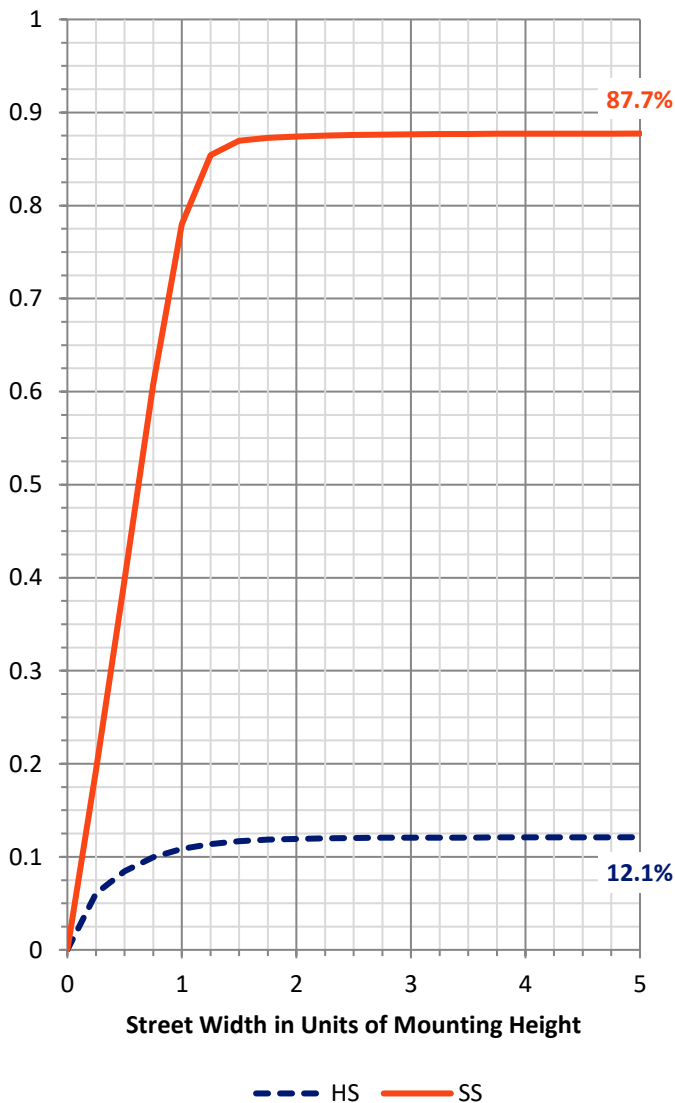
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2071.5	0.0	2071.5
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	14941.9	0.0	14941.9
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	17013.4	0.0	17013.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	449.7	2.6
10°-20°	1175.2	6.9
20°-30°	2006.6	11.8
30°-40°	3695.1	21.7
40°-50°	5738.5	33.7
50°-60°	3453.6	20.3
60°-70°	399.4	2.3
70°-80°	77.3	0.5
80°-90°	17.9	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°	17013.4	100.0
0°-180°	17013.4	100.0

**Coefficient of Utilization**

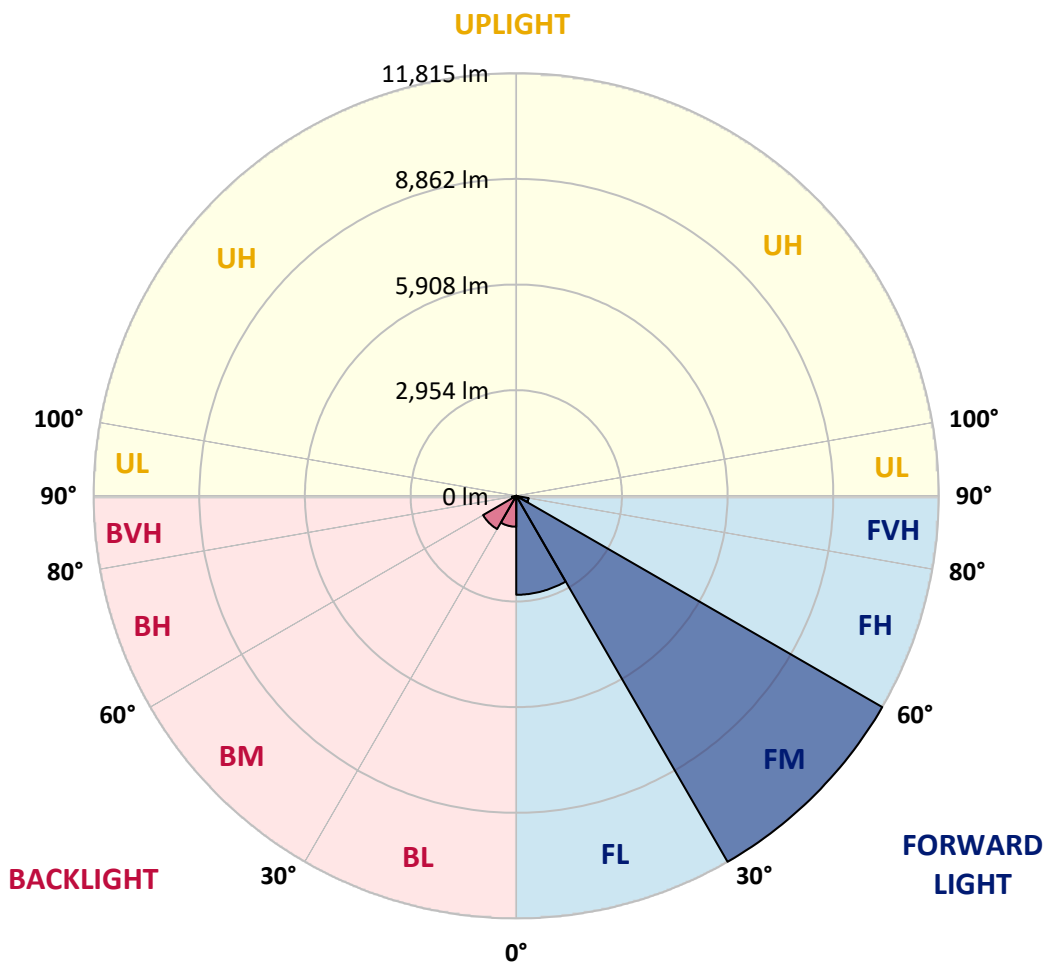


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2766.2	16.3			
FM (30°-60°)	11815.5	69.4			
FH (60°-80°)	351.7	2.1			G0/660
FVH (80°-90°)	8.5	0.0			G0/10
BL (0°-30°)	865.3	5.1	B2/1000		
BM (30°-60°)	1071.8	6.3	B2/2500		
BH (60°-80°)	125.0	0.7	B1/500		G1/500
BVH (80°-90°)	9.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4913.2	4913.2	4913.2	4913.2	4913.2	4913.2	4913.2	4913.2	4913.2	4913.2	4913.2
2.5°	5954.9	5818.5	5830.8	5741.6	5689.4	5605.2	5491.1	5468.8	5344.7	5176.1	5005.0
5°	6490.6	6458.4	6500.5	6371.5	6376.5	6237.6	5969.8	5974.7	5689.4	5414.2	5148.8
7.5°	6525.3	6450.9	6493.0	6607.1	6674.1	6649.3	6498.0	6366.5	6096.2	5692.0	5305.0
10°	5843.3	5984.6	6029.3	6217.8	6485.6	6768.4	6751.0	6758.4	6532.7	6004.5	5439.0
12.5°	5434.0	5339.8	5491.1	5605.2	6009.4	6557.5	6808.1	6862.6	6880.0	6307.1	5572.9
15°	5248.0	5248.0	5272.8	5305.0	5597.7	6103.6	6614.5	6773.3	7147.8	6703.9	5783.7
17.5°	5364.6	5359.6	5394.3	5327.4	5436.5	5825.9	6436.0	6617.1	7447.9	7093.2	5949.9
20°	5719.2	5736.6	5714.3	5520.8	5528.3	5820.9	6237.6	6522.8	7651.3	7430.6	6170.7
22.5°	6212.8	6222.7	6096.2	5885.4	5823.4	5967.2	6351.7	6570.0	7815.0	7834.8	6237.6
25°	6783.3	6743.6	6718.7	6421.1	6232.7	6356.6	6609.6	6736.1	7916.7	8182.0	6428.6
27.5°	7574.4	7495.1	7343.8	7078.4	6939.5	6763.4	6944.5	7152.8	8206.8	8668.2	6636.9
30°	8742.5	8673.1	8378.0	8035.8	7671.1	7497.5	7554.5	7668.7	8730.2	9231.2	6912.2
32.5°	10501.0	10354.6	9928.1	9275.8	8779.8	8301.1	8286.2	8407.7	9198.9	10009.9	7239.6
35°	12438.0	12393.4	11765.8	11093.7	10134.0	9394.8	9407.3	9471.8	10096.7	11031.7	7668.7
37.5°	13725.2	13970.8	13571.5	12849.7	12043.6	10987.1	10719.2	10741.6	11329.4	12242.1	8442.5
40°	14719.8	14511.5	14558.6	14389.8	13839.3	13120.0	12527.3	12410.7	12755.4	13581.4	9211.3
42.5°	14285.7	14295.7	14585.8	14985.1	15121.5	15069.5	14464.3	14243.6	13975.7	14677.6	9943.0
45°	13060.6	13316.0	13693.0	14749.5	15677.1	16547.6	16428.6	16061.5	14818.9	15545.6	10364.6
47.5°	11106.2	11096.2	11713.8	13087.8	15148.8	17187.5	17728.2	17470.3	15416.7	15448.9	10277.8
48°	10384.4	10563.0	11200.4	12817.4	14814.0	17093.2	17844.8	17519.9	15314.9	15319.9	10203.3
50°	7676.1	7643.8	8437.5	10421.7	13231.6	16061.5	17353.7	17606.7	15312.5	14667.6	9682.5
52.5°	4055.0	4194.0	4771.8	6552.6	9355.2	13144.8	15307.5	15701.9	14771.8	13601.2	8933.5
55°	1723.7	1557.5	2001.5	2958.8	5262.9	8782.2	11230.1	12108.1	12490.1	12036.2	7815.0
57.5°	615.1	672.1	773.8	1113.6	2212.3	4806.6	6696.5	7378.5	8653.3	8831.8	5324.9
60°	394.3	401.7	434.0	510.9	830.8	1852.6	3177.0	3720.2	4298.1	4437.0	2485.2
62.5°	305.0	307.6	322.4	334.8	394.3	719.2	1193.0	1413.7	1468.2	1262.4	652.3
65°	255.5	257.9	262.9	262.9	280.2	337.3	416.6	458.8	446.4	441.4	369.5
67.5°	196.0	200.9	210.8	210.8	220.8	205.9	230.7	245.6	277.8	337.3	315.0
70°	153.7	156.3	163.7	168.6	168.6	148.8	166.2	181.1	203.4	250.5	248.0
72.5°	119.1	124.0	129.0	129.0	121.5	101.7	119.1	131.4	146.3	173.6	168.6
75°	91.8	91.8	94.3	76.9	59.5	52.1	71.9	86.8	109.2	114.1	94.3
77.5°	24.8	27.2	24.8	22.3	24.8	37.2	47.1	54.6	69.5	69.5	62.0
80°	0.0	2.4	7.4	14.9	24.8	34.7	42.1	47.1	54.6	59.5	57.0
82.5°	0.0	2.4	7.4	14.9	22.3	27.2	37.2	39.7	44.7	52.1	52.1
85°	0.0	2.4	5.0	9.9	14.9	17.3	17.3	14.9	14.9	12.4	9.9
87.5°	0.0	0.0	2.4	5.0	5.0	7.4	7.4	7.4	7.4	7.4	7.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P651937

CATALOG NUMBER: GALN-SA6A-840-U-AFL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4913.2	4913.2	4913.2	4913.2	4913.2	4913.2	4913.2	4913.2	4913.2	4913.2	4913.2
2.5°	4938.0	4861.1	4744.6	4561.0	4384.9	4270.9	4161.7	4040.2	3973.2	3968.3	3931.1
5°	4997.6	4823.9	4546.1	4231.2	3893.8	3603.7	3311.0	3120.0	2948.9	2854.7	2837.3
7.5°	5029.8	4804.0	4355.1	3826.9	3251.5	2777.7	2450.4	2209.8	2115.5	2046.2	2043.6
10°	5096.7	4769.3	4069.9	3291.2	2579.3	2100.7	1875.0	1765.8	1713.8	1693.9	1664.2
12.5°	5146.3	4704.9	3777.3	2740.6	2038.7	1741.0	1641.9	1617.1	1619.5	1629.4	1617.1
15°	5215.8	4647.8	3382.9	2249.5	1711.4	1567.5	1567.5	1572.4	1607.2	1612.1	1609.6
17.5°	5210.8	4536.2	2976.2	1852.6	1512.9	1493.0	1500.5	1547.6	1570.0	1577.4	1560.1
20°	5270.4	4432.1	2557.1	1582.3	1401.3	1431.0	1480.7	1493.0	1520.4	1525.3	1505.5
22.5°	5253.0	4171.6	2167.7	1369.1	1317.0	1374.0	1423.6	1438.5	1431.0	1416.2	1413.7
25°	5220.8	3948.4	1810.5	1227.7	1254.9	1317.0	1364.1	1336.8	1321.9	1324.4	1326.8
27.5°	5163.7	3665.7	1515.4	1128.5	1170.7	1262.4	1259.9	1250.0	1264.9	1252.5	1264.9
30°	5153.7	3382.9	1272.3	1039.2	1108.6	1175.6	1180.6	1197.9	1215.2	1193.0	1215.2
32.5°	5168.6	3072.9	1098.7	984.6	1071.4	1073.9	1128.5	1145.9	1133.4	1083.8	1088.8
35°	5282.7	2834.8	972.2	954.9	1011.9	1014.4	1066.5	1044.2	989.6	959.8	977.2
37.5°	5523.4	2636.5	912.7	927.5	932.5	964.8	967.2	922.7	927.5	925.1	935.0
40°	5830.8	2485.2	870.5	902.8	897.9	920.1	830.8	855.6	878.0	885.4	890.4
42.5°	6041.7	2376.0	843.3	863.1	853.2	813.5	763.9	788.7	806.0	833.3	838.3
45°	6135.9	2289.2	811.0	793.7	793.7	721.7	701.9	706.9	746.6	776.3	771.4
47.5°	5982.1	2204.8	754.0	701.9	719.2	659.7	637.4	637.4	679.5	716.8	709.3
48°	5922.7	2170.1	756.5	682.1	694.4	649.8	627.5	622.5	669.6	704.3	704.3
50°	5627.5	2041.2	692.0	627.5	602.7	597.7	582.8	587.8	617.5	649.8	649.8
52.5°	5052.1	1763.4	585.3	538.2	493.6	523.4	530.8	520.8	535.7	565.5	563.0
55°	4216.3	1354.2	468.8	446.4	411.7	444.0	458.8	446.4	431.5	453.9	453.9
57.5°	2700.9	729.1	374.5	379.5	344.7	377.0	389.4	359.6	332.4	349.7	347.2
60°	1217.8	436.5	307.6	300.1	277.8	315.0	334.8	300.1	262.9	275.3	287.7
62.5°	456.3	310.0	233.1	228.2	223.2	257.9	267.9	240.6	203.4	210.8	213.3
65°	334.8	272.8	186.0	168.6	178.5	203.4	198.4	171.1	146.3	146.3	151.3
67.5°	285.2	238.1	151.3	131.4	131.4	133.9	124.0	109.2	101.7	106.6	111.6
70°	223.2	188.5	119.1	101.7	91.8	81.8	71.9	69.5	62.0	69.5	66.9
72.5°	143.8	126.5	91.8	76.9	69.5	57.0	47.1	44.7	37.2	34.7	34.7
75°	76.9	76.9	71.9	62.0	54.6	44.7	37.2	29.8	19.8	14.9	14.9
77.5°	54.6	59.5	64.5	59.5	49.6	37.2	29.8	19.8	9.9	5.0	5.0
80°	52.1	59.5	64.5	57.0	49.6	37.2	27.2	14.9	7.4	2.4	2.4
82.5°	47.1	54.6	59.5	52.1	44.7	32.2	24.8	14.9	7.4	2.4	2.4
85°	9.9	12.4	14.9	14.9	17.3	22.3	17.3	12.4	5.0	2.4	2.4
87.5°	7.4	7.4	7.4	7.4	7.4	7.4	5.0	5.0	2.4	2.4	2.4
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)