

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: P648584

Luminaire Tested: **GALN-SA8B-835-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648584  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-835-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29476.8 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

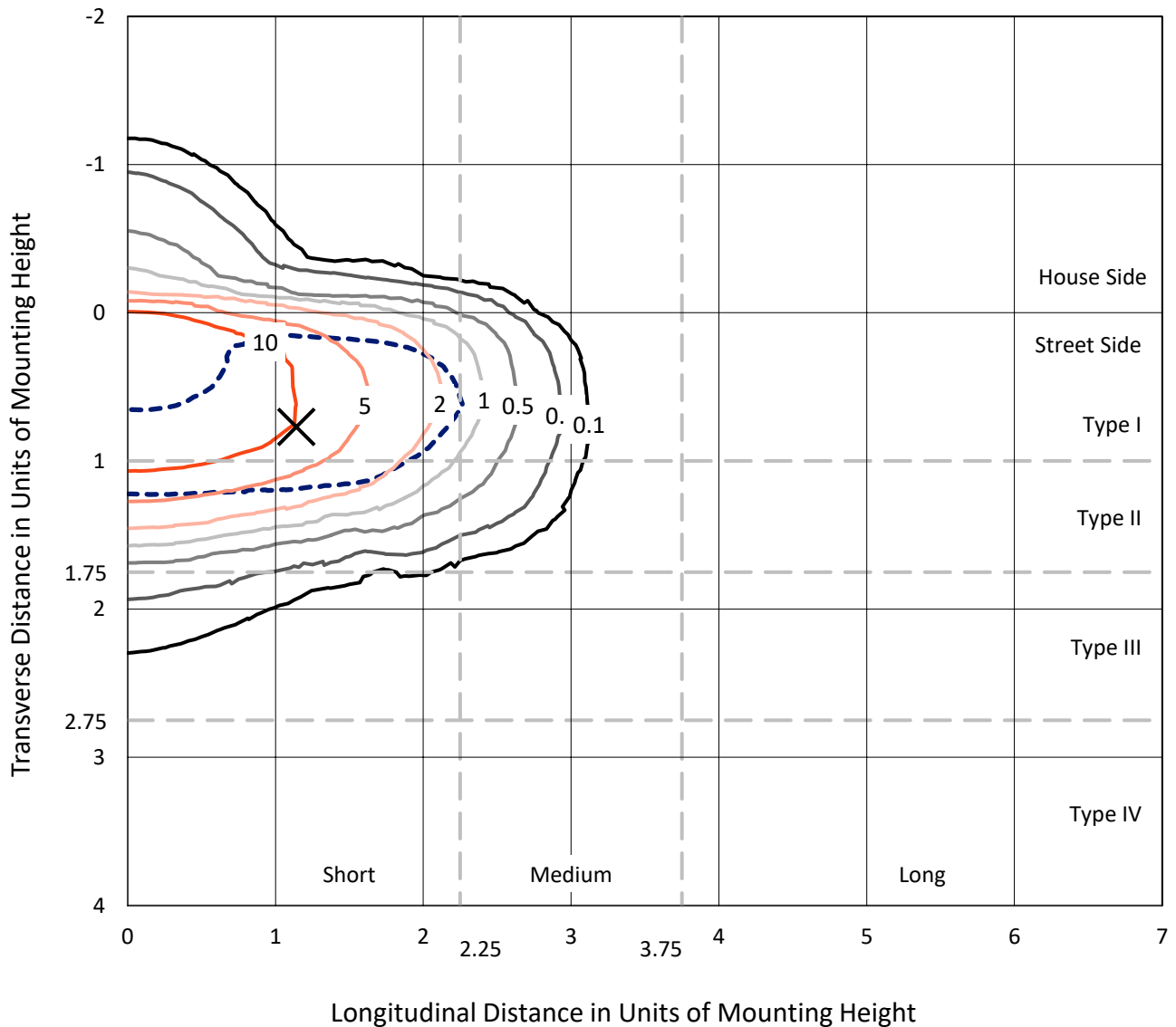
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

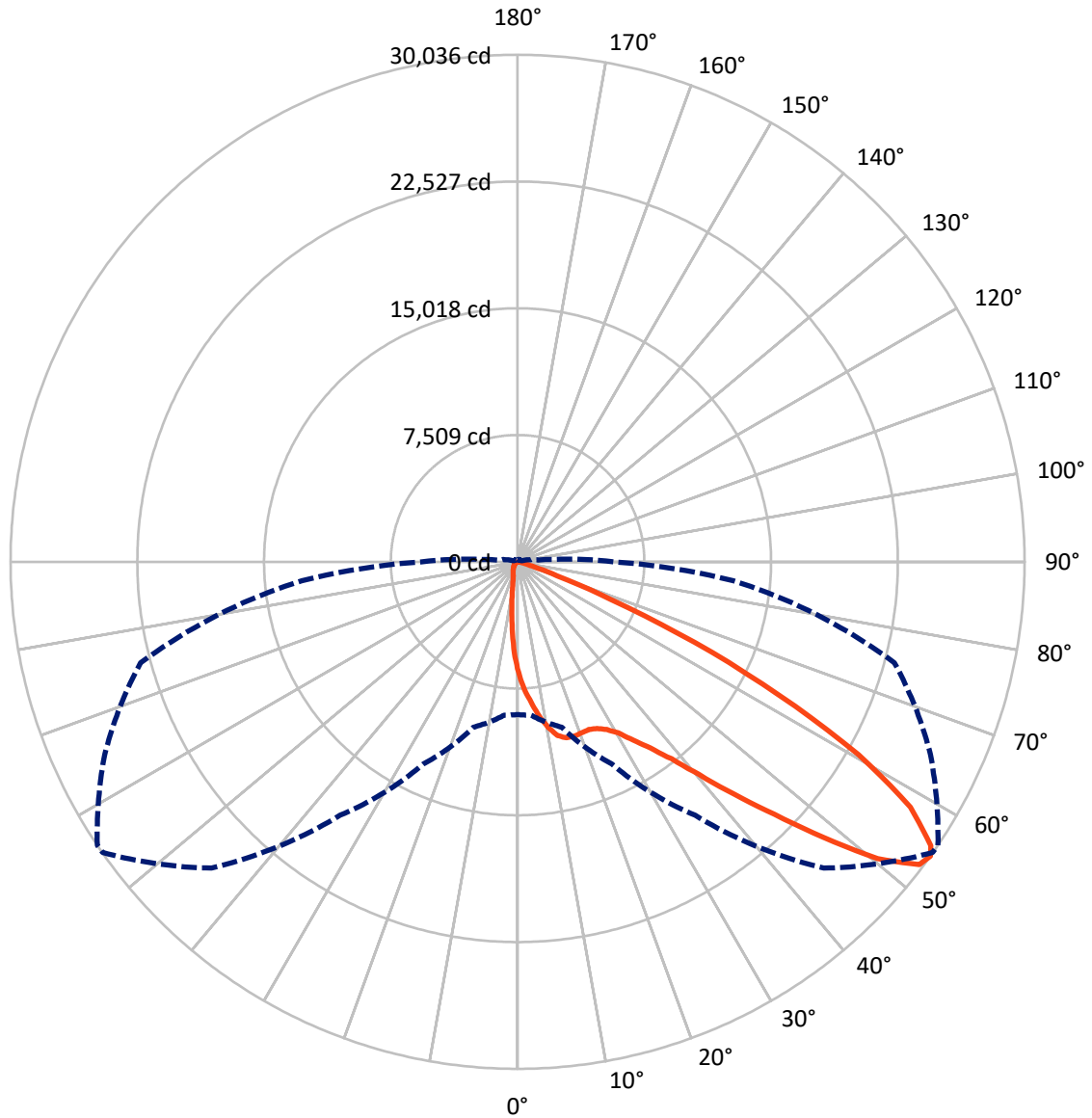
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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 CATALOG NUMBER: GALN-SA8B-835-U-AFL-HSS

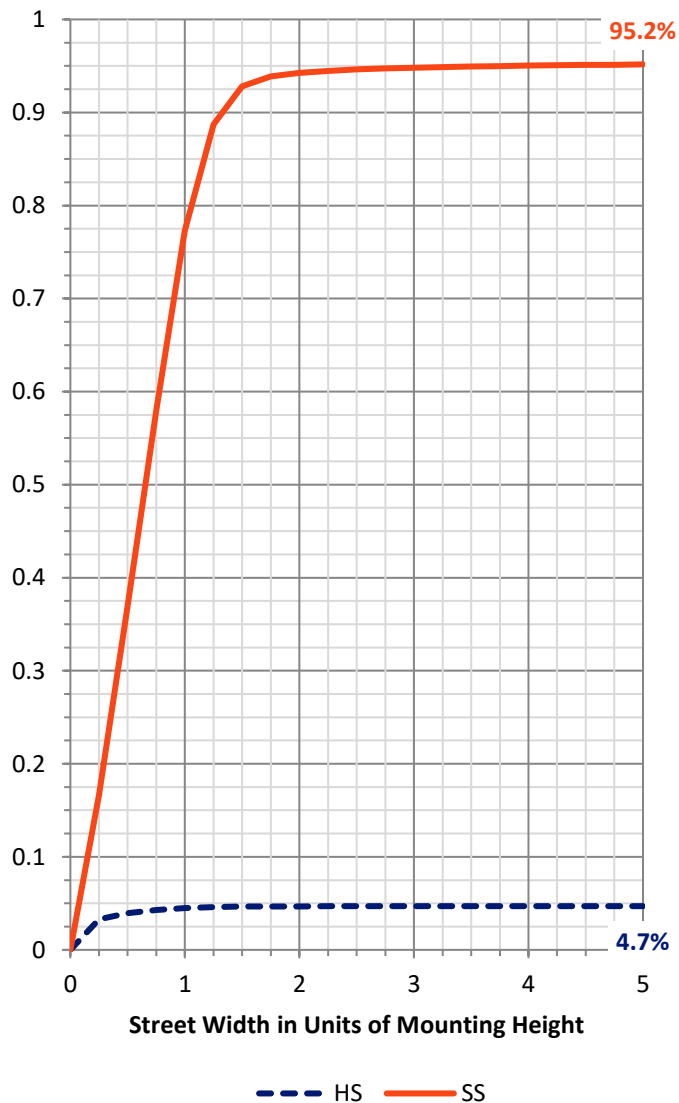
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1393.9	0.0	1393.9
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	28082.9	0.0	28082.9
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	29476.8	0.0	29476.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	578.7	2.0
10°-20°	1564.4	5.3
20°-30°	2709.4	9.2
30°-40°	4676.9	15.9
40°-50°	7960.3	27.0
50°-60°	7877.7	26.7
60°-70°	3595.5	12.2
70°-80°	461.8	1.6
80°-90°	52.0	0.2
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°	29476.8	100.0
0°-180°	29476.8	100.0

**Coefficient of Utilization**

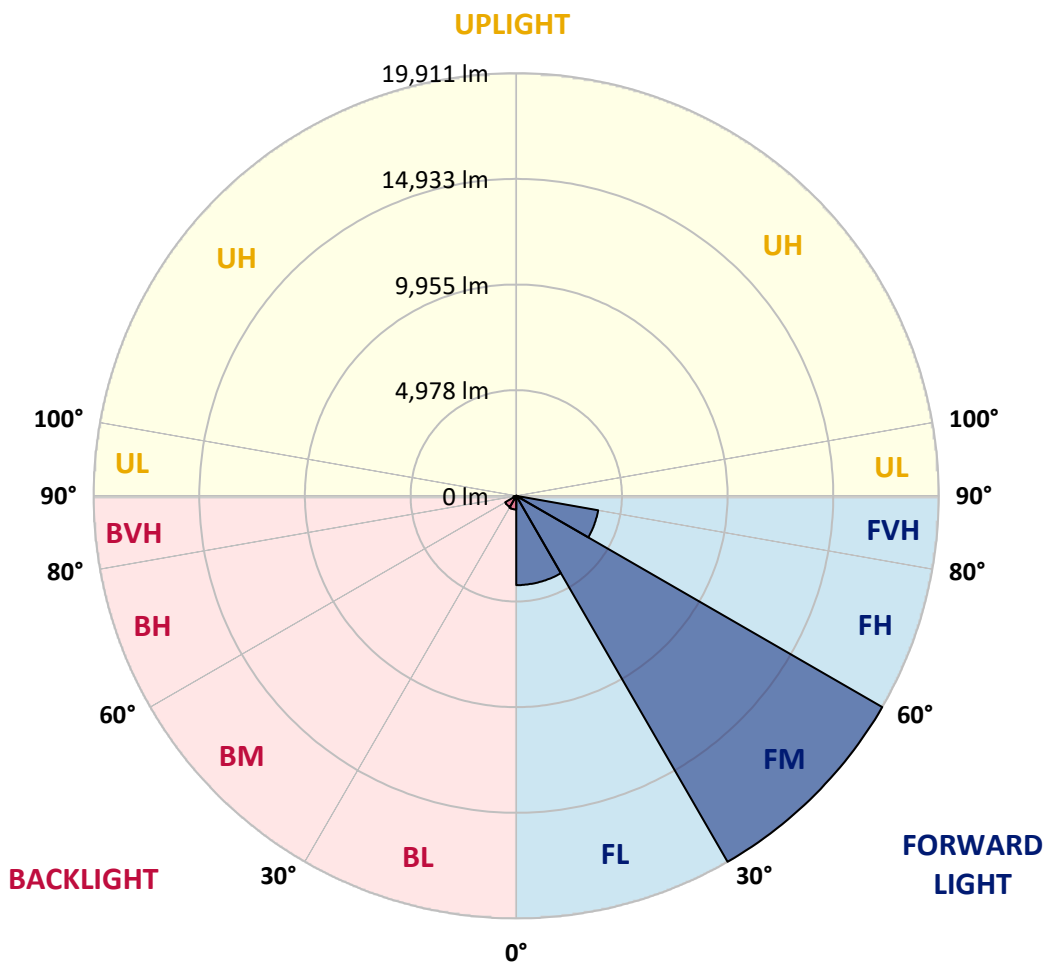


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4207.9	14.3			
FM (30°-60°)	19910.8	67.5			
FH (60°-80°)	3917.7	13.3			G2/5000
FVH (80°-90°)	46.5	0.2			G1/100
BL (0°-30°)	644.6	2.2	B2/1000		
BM (30°-60°)	604.1	2.0	B1/1000		
BH (60°-80°)	139.6	0.5	B1/500		G1/500
BVH (80°-90°)	5.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6548.9	6548.9	6548.9	6548.9	6548.9	6548.9	6548.9	6548.9	6548.9	6548.9	6548.9
2.5°	8322.8	8265.2	8185.6	8124.0	7978.8	7770.0	7549.2	7549.2	7336.5	7040.1	6737.8
5°	9599.7	9561.8	9484.2	9325.1	9162.1	8869.7	8426.3	8348.7	7968.8	7431.9	6867.1
7.5°	10118.7	10136.6	10140.6	10098.8	10021.2	9732.8	9293.3	9239.6	8633.1	7913.2	7036.1
10°	9621.5	9709.0	9794.5	9967.5	10212.1	10281.7	10033.1	9977.5	9380.9	8400.4	7219.1
12.5°	8881.7	8929.4	8977.2	9249.6	9740.8	10303.7	10564.2	10562.2	10057.0	8885.6	7451.8
15°	8537.6	8579.4	8583.4	8704.7	9130.2	9949.7	10790.8	10820.7	10717.3	9484.2	7702.4
17.5°	8609.2	8643.1	8615.2	8645.0	8867.8	9559.9	10765.0	10864.4	11252.3	10059.0	7929.0
20°	9076.6	9142.2	9034.8	8951.3	9018.9	9456.4	10677.5	10816.8	11630.1	10619.8	8135.9
22.5°	9915.8	9951.6	9816.4	9587.7	9468.3	9673.2	10653.7	10790.8	11952.3	11079.2	8255.2
25°	10848.5	10836.6	10687.5	10430.9	10180.3	10110.7	10810.7	10934.0	12218.8	11492.9	8291.0
27.5°	11781.3	11817.0	11566.5	11248.3	10948.0	10767.0	11162.8	11254.2	12519.1	11964.2	8334.8
30°	12865.2	12807.5	12560.8	12196.9	11852.8	11600.3	11729.6	11755.4	12932.7	12588.7	8450.1
32.5°	14275.1	14116.0	13839.6	13203.2	12956.6	12529.0	12560.8	12592.7	13435.9	13207.2	8589.4
35°	16188.3	16180.3	15639.4	14782.3	14181.7	13650.7	13511.4	13537.3	14197.6	14125.9	8897.6
37.5°	18491.2	18523.0	17906.6	17043.5	15937.7	15094.5	14808.1	14812.1	15355.0	15394.8	9367.0
40°	20366.6	20450.2	20082.2	19499.5	18407.7	17089.2	16607.9	16564.1	16981.8	16932.1	10037.1
42.5°	21174.0	21251.6	21388.8	21591.7	20991.1	19903.2	18767.6	18827.3	18954.6	18606.6	10788.9
45°	20778.3	20901.6	21440.6	22693.5	23258.2	22892.3	21538.0	21329.2	20790.2	20426.3	11544.6
47.5°	19129.6	19429.9	20330.8	22417.0	24393.8	25630.8	24664.3	24387.9	22627.8	21754.8	12025.9
50°	16419.0	16436.9	17691.8	20358.7	23805.2	27359.0	27856.2	27649.4	24340.1	22500.5	12268.5
52.5°	11902.5	12294.4	13443.9	16532.3	21255.6	27096.5	29890.7	29805.1	26106.1	22882.4	12618.5
54°	9048.7	9124.3	10146.5	13211.2	18326.2	25654.7	30016.0	30035.9	26983.1	23113.1	12825.4
55°	7418.0	7237.0	8310.9	11254.2	16327.5	24379.9	29606.2	29701.8	27376.9	23232.4	12978.5
57.5°	3516.1	3518.1	4339.4	5936.4	10226.1	18930.7	27102.4	27440.5	27420.7	23437.2	13449.8
60°	1779.9	1791.8	1972.8	2740.5	5051.4	12584.7	22409.1	23214.5	25310.6	23467.1	13604.9
62.5°	1245.0	1231.0	1201.2	1318.5	2125.9	6395.8	16683.5	17383.5	21504.2	22331.5	13111.7
65°	1066.0	1036.1	952.6	934.7	1073.9	2547.6	10391.1	11532.7	16419.0	19336.5	11707.7
67.5°	910.9	898.9	823.3	777.6	759.7	1109.7	5361.6	5962.2	11222.4	13899.3	8867.8
70°	773.6	767.7	721.9	664.2	614.5	664.2	1988.7	2464.0	6254.6	7483.6	4184.3
72.5°	628.4	634.4	642.4	568.8	517.1	471.4	849.2	988.4	2617.2	2674.9	1463.7
75°	550.8	544.9	544.9	495.2	431.6	350.0	467.4	503.2	801.5	743.8	340.1
77.5°	387.8	373.9	437.5	407.7	359.9	248.6	266.5	282.4	332.1	284.4	159.1
80°	268.5	268.5	280.4	365.9	324.2	181.0	163.1	175.0	196.8	169.0	91.5
82.5°	151.1	155.1	183.0	194.9	188.9	121.3	107.4	109.4	131.2	115.3	57.7
85°	17.9	29.8	105.4	103.4	77.6	53.7	59.7	61.6	81.5	71.6	33.8
87.5°	2.0	4.0	21.8	27.9	19.9	21.8	21.8	21.8	27.9	31.8	23.9
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°	6548.9	6548.9	6548.9	6548.9	6548.9	6548.9	6548.9	6548.9	6548.9	6548.9	6548.9
2.5°	6574.8	6423.6	6063.6	5646.0	5379.5	4946.0	4580.1	4315.6	4249.9	4122.7	4160.5
5°	6566.8	6252.6	5518.7	4743.1	3915.8	3299.3	2839.9	2478.0	2318.9	2213.5	2139.9
7.5°	6570.8	6079.5	4902.2	3667.3	2678.8	2074.2	1648.7	1427.9	1280.8	1219.1	1227.0
10°	6582.7	5884.6	4186.3	2716.6	1807.8	1340.4	1079.9	974.4	924.7	916.8	914.8
12.5°	6610.6	5671.9	3502.1	2016.5	1264.9	974.4	875.1	839.2	823.3	823.3	817.4
15°	6640.4	5437.2	2933.4	1499.5	974.4	837.3	791.5	773.6	763.7	763.7	761.7
17.5°	6640.4	5166.7	2402.4	1163.4	839.2	769.6	733.8	709.9	702.0	702.0	700.0
20°	6598.7	4852.5	1931.0	936.7	761.7	706.0	670.2	644.3	634.4	630.4	628.4
22.5°	6453.4	4432.9	1537.3	805.5	698.0	650.3	604.6	574.7	566.8	562.8	564.8
25°	6194.9	3959.6	1217.1	708.0	640.3	582.7	542.9	521.1	513.1	513.1	515.1
27.5°	5928.4	3464.4	964.5	634.4	570.7	519.1	487.3	473.3	471.4	477.3	479.3
30°	5681.8	2967.2	781.6	574.7	509.1	465.3	443.5	439.5	439.5	441.5	443.5
32.5°	5407.4	2531.7	654.3	523.0	459.4	421.6	409.7	409.7	413.7	413.7	417.7
35°	5234.4	2157.8	574.7	473.3	421.6	389.8	381.9	383.8	389.8	397.8	401.8
37.5°	5140.9	1859.5	523.0	433.5	385.8	363.9	356.0	359.9	373.9	387.8	389.8
40°	5148.9	1634.7	481.3	399.7	358.0	334.1	328.2	340.1	354.0	367.9	369.9
42.5°	5236.3	1467.7	441.5	359.9	334.1	300.3	298.3	310.2	316.2	330.1	332.1
45°	5339.7	1346.4	399.7	318.2	290.3	260.5	262.5	272.5	280.4	302.3	306.2
47.5°	5371.5	1262.8	352.0	270.4	238.7	228.7	230.7	236.6	252.6	272.5	274.4
50°	5407.4	1211.1	306.2	228.7	202.9	200.8	202.9	206.8	216.7	224.7	222.8
52.5°	5560.5	1209.2	268.5	198.9	173.0	177.0	179.0	177.0	169.0	157.1	153.2
54°	5703.7	1215.1	250.6	184.9	159.1	165.1	163.1	153.2	133.3	121.3	115.3
55°	5819.0	1221.1	240.6	175.0	151.1	153.2	155.1	135.2	109.4	97.5	93.5
57.5°	6045.8	1207.2	216.7	153.2	133.3	125.3	123.3	89.5	59.7	51.7	47.8
60°	5932.4	1089.9	196.8	131.2	113.4	101.4	83.5	49.7	29.8	21.8	21.8
62.5°	5487.0	924.7	175.0	107.4	93.5	77.6	43.8	27.9	13.9	8.0	6.0
65°	4908.2	777.6	157.1	85.5	73.6	49.7	23.9	17.9	6.0	0.0	0.0
67.5°	3649.3	576.8	133.3	67.7	55.7	31.8	15.9	9.9	2.0	0.0	0.0
70°	1690.4	352.0	113.4	51.7	39.8	23.9	11.9	6.0	0.0	0.0	0.0
72.5°	485.2	220.7	93.5	37.8	27.9	19.9	9.9	4.0	2.0	0.0	0.0
75°	169.0	177.0	69.6	27.9	21.8	13.9	8.0	4.0	2.0	0.0	0.0
77.5°	101.4	143.2	43.8	23.9	17.9	11.9	8.0	4.0	2.0	2.0	0.0
80°	57.7	95.4	27.9	19.9	15.9	9.9	6.0	4.0	2.0	2.0	0.0
82.5°	31.8	45.7	21.8	17.9	13.9	9.9	6.0	4.0	2.0	2.0	2.0
85°	25.8	23.9	17.9	15.9	11.9	8.0	6.0	2.0	0.0	0.0	0.0
87.5°	19.9	15.9	15.9	15.9	11.9	8.0	6.0	2.0	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)