

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: P647936

Luminaire Tested: **GALN-SA5A-835-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647936  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-835-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17773.3 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

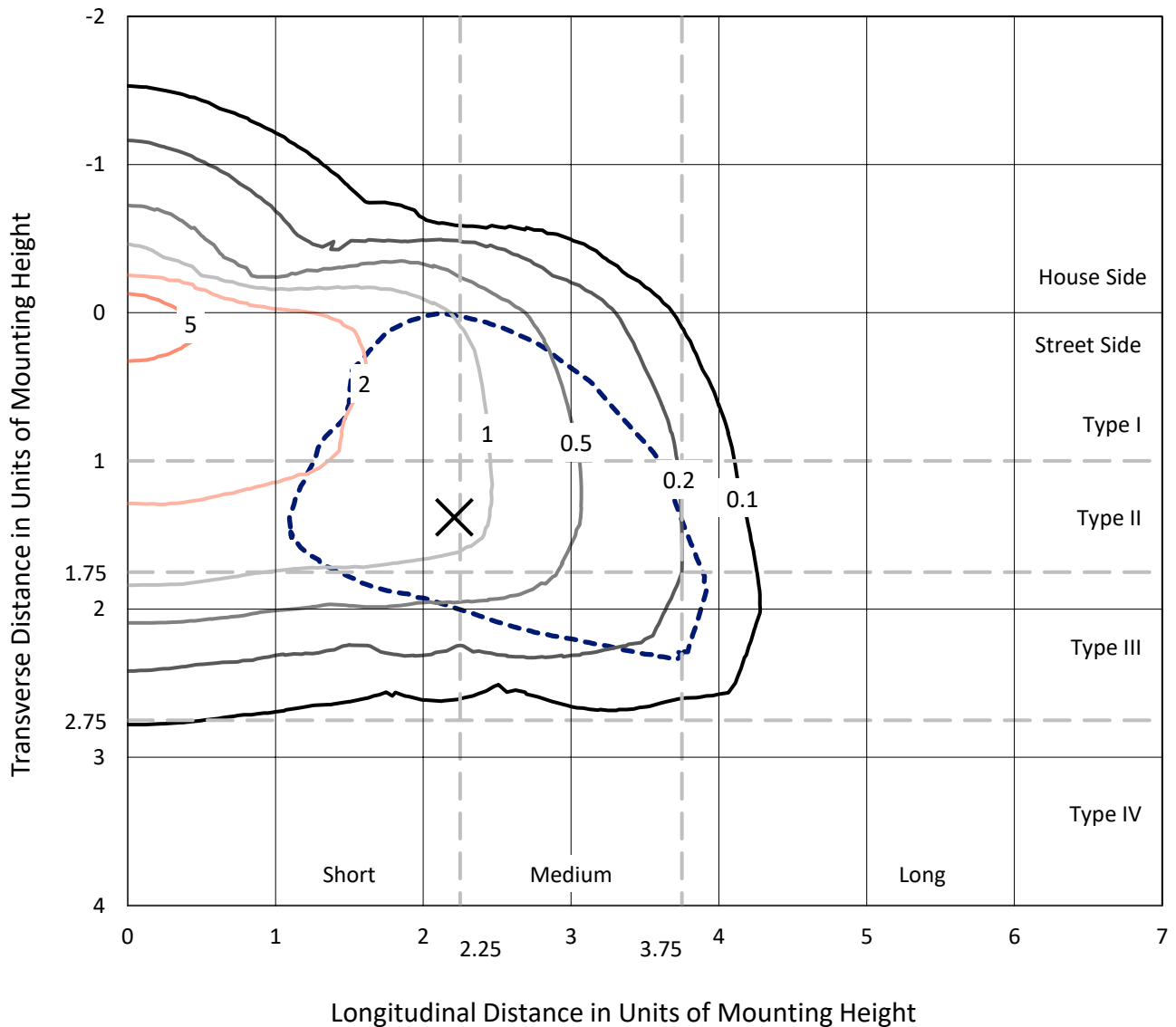
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

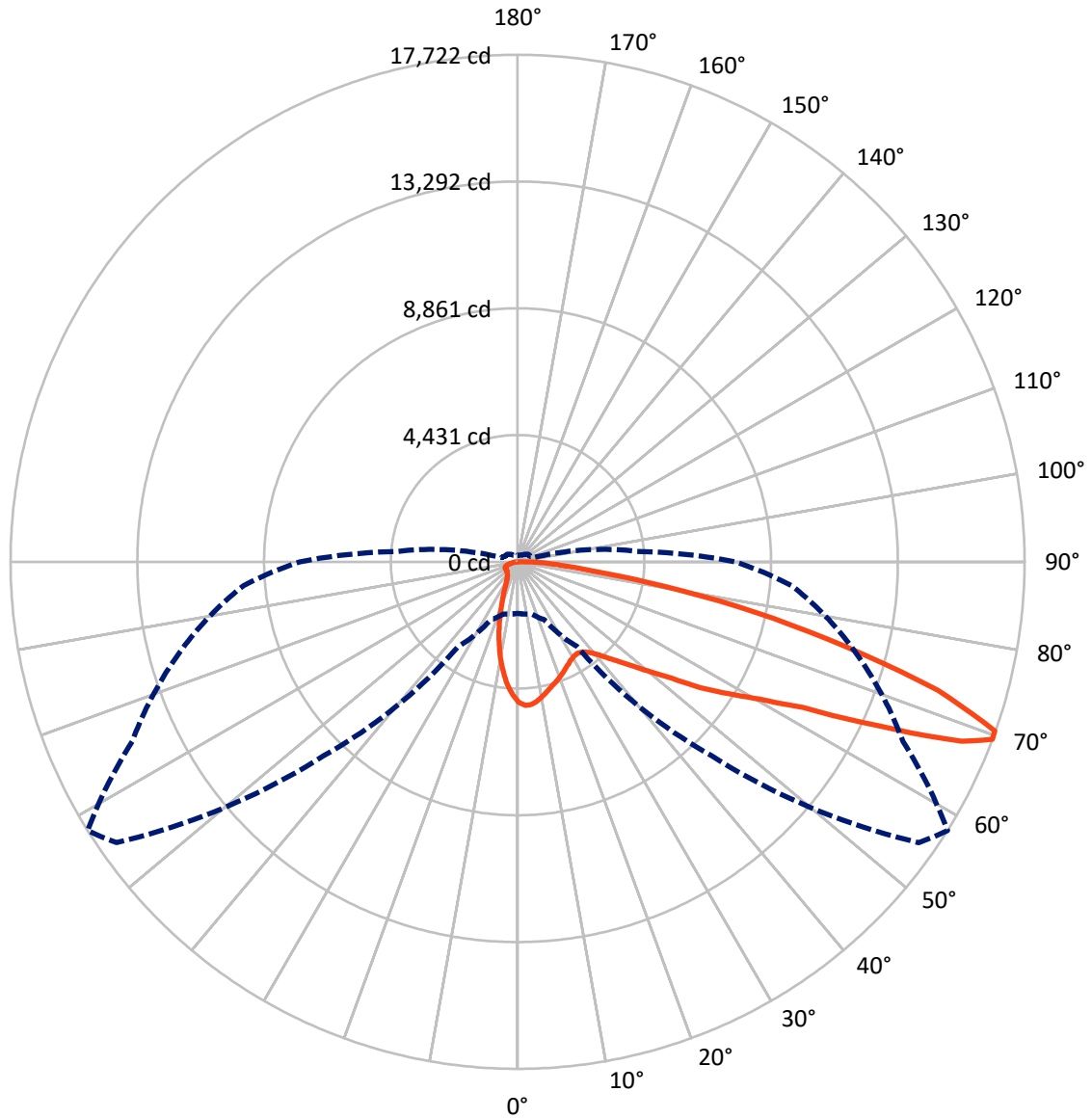
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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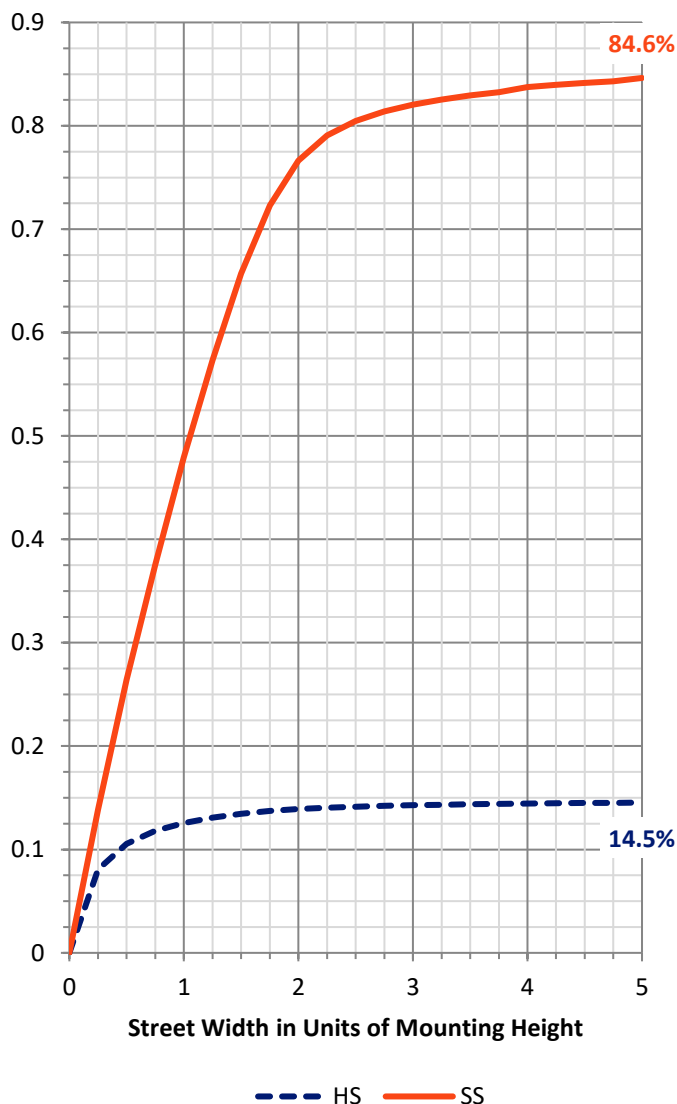
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2604.7	0.0	2604.7
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	15168.6	0.0	15168.6
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	17773.3	0.0	17773.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	417.1	2.3
10°-20°	915.9	5.2
20°-30°	1183.3	6.7
30°-40°	1536.9	8.6
40°-50°	2234.5	12.6
50°-60°	3565.5	20.1
60°-70°	4763.1	26.8
70°-80°	2745.7	15.4
80°-90°	411.3	2.3
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°	17773.3	100.0
0°-180°	17773.3	100.0

**Coefficient of Utilization**



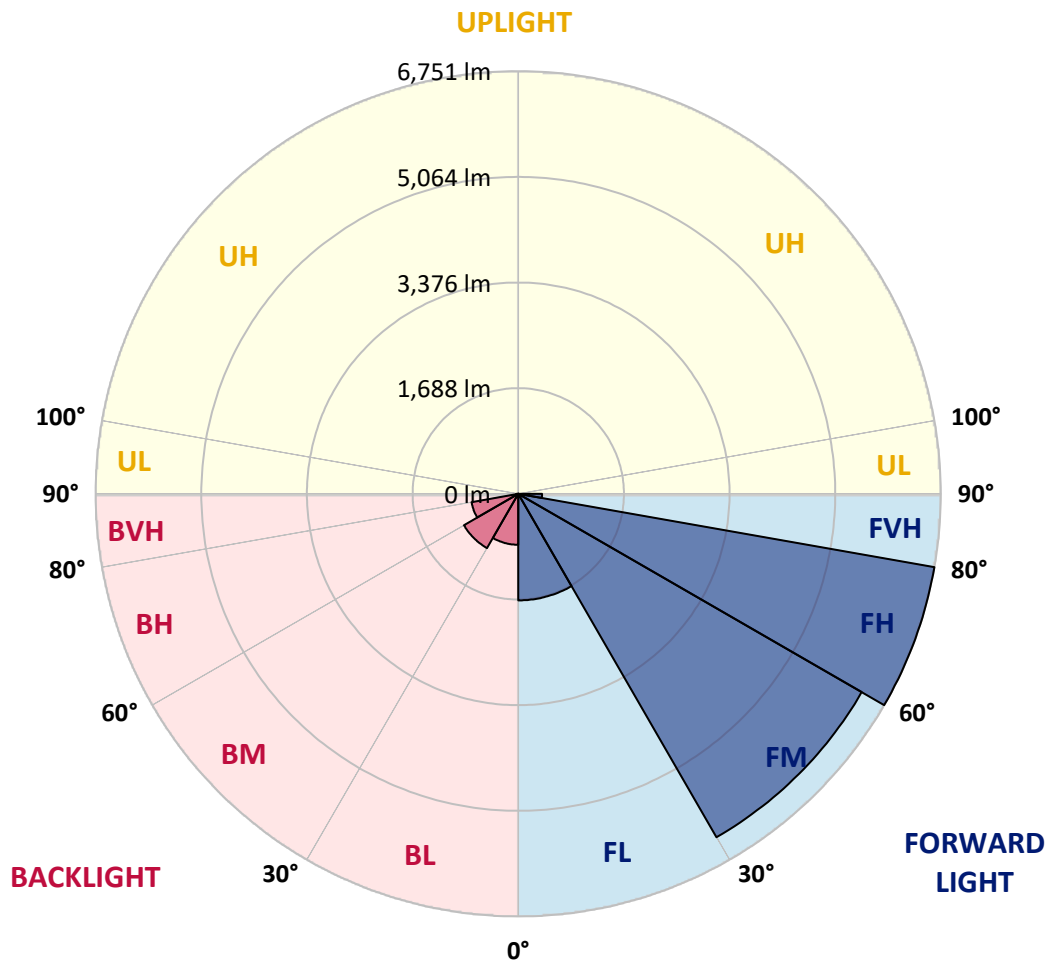
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1702.2	9.6			
FM (30°-60°)	6335.3	35.6			
FH (60°-80°)	6751.4	38.0			G3/7500
FVH (80°-90°)	379.7	2.1			G3/500
BL (0°-30°)	814.1	4.6	B2/1000		
BM (30°-60°)	1001.7	5.6	B2/2500		
BH (60°-80°)	757.4	4.3	B2/1000		G2/1000
BVH (80°-90°)	31.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4911.5	4911.5	4911.5	4911.5	4911.5	4911.5	4911.5	4911.5	4911.5	4911.5	4911.5
2.5°	5093.9	5107.7	5103.8	5098.8	5090.9	5069.1	5033.4	5027.5	5004.7	4956.1	4895.6
5°	5015.6	5027.5	5028.5	5035.4	5045.3	5041.3	5015.6	5012.6	4978.9	4913.5	4812.4
7.5°	4746.9	4762.8	4797.5	4836.2	4870.9	4903.5	4911.5	4916.5	4895.6	4820.3	4685.5
10°	4444.6	4460.5	4476.3	4533.9	4619.1	4700.3	4767.8	4776.7	4781.6	4712.3	4547.7
12.5°	4109.6	4142.3	4176.1	4261.2	4375.2	4503.1	4622.0	4640.9	4674.6	4622.0	4428.8
15°	3825.1	3858.9	3907.4	3983.7	4121.5	4305.9	4473.4	4504.1	4570.5	4543.7	4317.8
17.5°	3627.9	3639.8	3673.4	3760.7	3909.4	4103.6	4327.6	4389.1	4495.2	4488.2	4222.6
20°	3472.2	3487.1	3507.9	3561.5	3716.1	3921.3	4191.9	4271.2	4414.9	4438.7	4128.4
22.5°	3406.8	3417.7	3414.7	3443.5	3548.6	3754.7	4054.1	4148.3	4343.5	4405.0	4041.2
25°	3410.8	3420.7	3405.8	3398.9	3461.3	3608.1	3910.4	4030.3	4286.1	4382.2	3961.9
27.5°	3477.2	3484.1	3456.4	3428.6	3433.6	3516.8	3791.4	3924.2	4237.4	4392.1	3895.5
30°	3566.4	3579.3	3561.5	3527.7	3491.1	3495.1	3715.1	3845.9	4214.7	4426.8	3863.8
32.5°	3681.4	3693.3	3685.3	3658.6	3611.0	3558.5	3696.2	3817.2	4216.7	4497.2	3856.8
35°	3802.3	3826.1	3839.0	3837.0	3798.3	3707.2	3770.6	3870.7	4264.2	4615.2	3897.5
37.5°	3939.1	3958.9	4014.4	4050.1	4014.4	3908.4	3938.1	4007.5	4369.3	4785.6	3986.7
40°	4071.9	4101.7	4182.9	4294.0	4280.1	4186.9	4193.8	4239.5	4554.6	5039.4	4161.2
42.5°	4210.7	4246.4	4388.2	4552.7	4585.4	4513.1	4531.8	4572.5	4818.3	5391.3	4460.5
45°	4389.1	4431.8	4606.2	4811.4	4940.3	4895.6	4949.2	4969.0	5171.2	5849.2	4855.0
47.5°	4619.1	4668.6	4883.7	5139.5	5321.9	5362.5	5455.7	5443.8	5608.3	6391.4	5366.4
50°	5006.7	5034.4	5237.6	5498.3	5749.1	5932.5	6033.6	6052.4	6150.5	6918.7	5938.4
52.5°	5467.6	5492.4	5639.1	5867.0	6181.2	6569.8	6819.6	6758.2	6782.0	7561.0	6607.5
55°	5986.0	6027.6	6120.8	6272.5	6679.9	7251.8	7753.3	7768.2	7504.5	8175.6	7248.8
57.5°	6387.4	6457.8	6617.4	6833.5	7349.9	8010.1	8684.1	8694.0	8357.0	8831.8	7956.5
60°	6185.2	6268.5	6633.3	7159.6	8229.1	9333.4	9796.3	9739.7	9186.6	9579.1	8819.9
62.5°	5313.0	5327.8	5858.1	6680.9	8499.7	11103.6	11451.6	11212.7	10293.9	10526.8	9697.1
65°	3438.5	3535.7	3956.0	5108.8	7610.6	12086.0	14351.9	13799.8	11846.1	11602.3	10431.6
67.5°	2170.8	2146.0	2320.4	2917.1	5234.7	11220.6	16827.0	16739.8	13876.1	12281.3	10256.2
69°	1800.0	1827.8	1887.3	2236.2	3602.1	9580.2	17119.4	17722.0	14860.4	12227.7	9618.8
70°	1632.6	1645.4	1707.9	1982.5	2779.4	8023.9	16639.6	17695.3	15247.0	12003.7	9156.9
72.5°	1295.6	1294.5	1401.6	1649.4	2077.6	4580.5	13663.0	15362.9	14814.8	10960.9	7566.0
75°	984.3	1000.1	1118.1	1395.6	1914.0	2502.9	9534.6	11831.2	11832.2	8657.3	4721.2
77.5°	709.7	719.7	857.4	1171.6	1803.0	2029.1	6350.8	8485.8	7977.4	3966.8	1483.9
80°	464.9	470.8	575.9	927.8	1625.6	1914.0	3765.7	5194.0	3762.7	1052.7	490.6
82.5°	254.7	284.5	351.9	600.7	1304.5	1768.3	2288.7	2628.7	1411.5	468.9	255.7
85°	127.9	135.8	198.3	350.9	852.5	1463.0	1593.9	1507.7	728.6	232.9	132.8
87.5°	37.7	47.6	82.3	135.8	345.9	762.3	887.1	795.9	280.5	84.3	27.7
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°	4911.5	4911.5	4911.5	4911.5	4911.5	4911.5	4911.5	4911.5	4911.5	4911.5	4911.5
2.5°	4870.9	4853.0	4773.7	4702.4	4636.9	4567.6	4509.1	4457.5	4462.5	4463.5	4411.0
5°	4759.9	4719.2	4568.6	4427.8	4308.8	4158.2	4029.3	3946.1	3904.4	3848.9	3868.7
7.5°	4609.2	4530.9	4321.7	4087.8	3868.7	3673.4	3461.3	3315.6	3222.4	3132.2	3144.1
10°	4453.5	4327.6	4023.4	3714.1	3430.6	3118.4	2847.8	2615.8	2443.4	2378.9	2336.3
12.5°	4294.0	4128.4	3741.9	3330.5	2939.0	2565.3	2181.7	1932.9	1742.6	1641.5	1654.3
15°	4148.3	3947.0	3448.5	2946.9	2438.4	1993.4	1610.7	1373.9	1241.0	1213.3	1229.2
17.5°	4013.4	3749.8	3173.9	2574.2	1980.4	1494.7	1210.3	1076.5	1022.9	1008.0	1007.1
20°	3874.7	3582.3	2865.6	2175.7	1543.4	1158.8	993.2	930.8	920.8	926.8	927.8
22.5°	3734.0	3375.1	2548.4	1780.2	1229.2	947.6	868.3	851.4	859.4	873.3	875.2
25°	3604.1	3192.8	2243.1	1433.3	981.3	832.6	794.0	794.0	811.8	832.6	833.6
27.5°	3497.0	3016.3	1938.9	1137.9	821.8	749.3	736.5	743.4	768.2	784.0	785.0
30°	3408.8	2851.8	1651.3	912.0	722.6	682.9	680.0	691.9	709.7	724.6	725.6
32.5°	3342.4	2707.1	1382.8	766.2	654.2	632.4	631.4	640.3	650.2	654.2	658.2
35°	3316.6	2587.1	1136.9	674.0	608.6	594.8	594.8	593.7	597.7	599.7	601.7
37.5°	3337.5	2494.9	946.6	614.6	574.9	565.0	559.1	553.1	551.2	551.2	552.1
40°	3425.6	2446.3	804.8	575.9	551.2	536.3	525.3	518.4	511.5	513.5	515.4
42.5°	3613.0	2455.3	708.7	550.1	530.3	509.5	493.6	485.7	480.8	486.7	485.7
45°	3911.4	2544.4	647.3	532.3	509.5	482.7	467.8	459.9	459.9	468.9	471.8
47.5°	4328.7	2715.0	614.6	518.4	493.6	461.9	447.0	441.1	443.1	458.0	458.9
50°	4838.2	3011.3	608.6	511.5	485.7	447.0	430.2	424.2	429.2	445.1	447.0
52.5°	5400.2	3393.0	637.4	512.5	478.7	438.1	416.3	407.4	412.3	425.2	429.2
55°	6066.3	3870.7	711.7	516.4	468.9	433.2	406.4	386.6	392.5	401.4	402.5
57.5°	6746.2	4473.4	842.5	517.4	461.0	424.2	389.5	363.8	363.8	369.7	372.7
60°	7576.9	5129.6	1015.0	518.4	461.9	411.4	366.8	338.0	334.0	337.0	338.0
62.5°	8401.6	5678.7	1043.7	515.4	471.8	398.5	341.9	312.3	305.3	304.3	302.3
65°	8765.4	5576.6	855.4	501.6	482.7	390.6	322.1	287.4	275.5	271.6	271.6
67.5°	8172.6	4717.3	643.3	482.7	475.8	382.6	303.3	266.6	252.8	244.8	244.8
69°	7615.5	4195.9	577.9	469.9	458.0	369.7	291.4	255.7	238.9	230.0	227.0
70°	7185.4	3837.0	550.1	458.9	441.1	354.9	282.5	247.8	228.9	219.1	217.0
72.5°	5734.2	3010.3	481.7	417.3	375.7	298.3	250.8	223.0	205.1	194.3	191.3
75°	3304.7	1631.5	399.5	362.8	302.3	231.9	212.1	194.3	180.4	170.5	167.5
77.5°	1017.0	630.4	289.5	286.5	222.1	179.4	169.5	162.6	152.7	141.7	139.8
80°	428.2	321.2	196.3	193.3	147.7	124.9	121.9	120.9	117.0	108.1	105.1
82.5°	234.9	181.4	136.8	118.9	89.2	72.3	75.3	76.3	73.4	64.4	58.5
85°	114.9	99.1	66.4	53.6	40.6	25.8	24.7	29.8	27.7	19.8	21.8
87.5°	22.8	27.7	17.9	7.9	4.0	0.0	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)