

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: P383650

Luminaire Tested: **GLEON-SA9B-735-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383650  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA9B-735-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33855.2 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G5

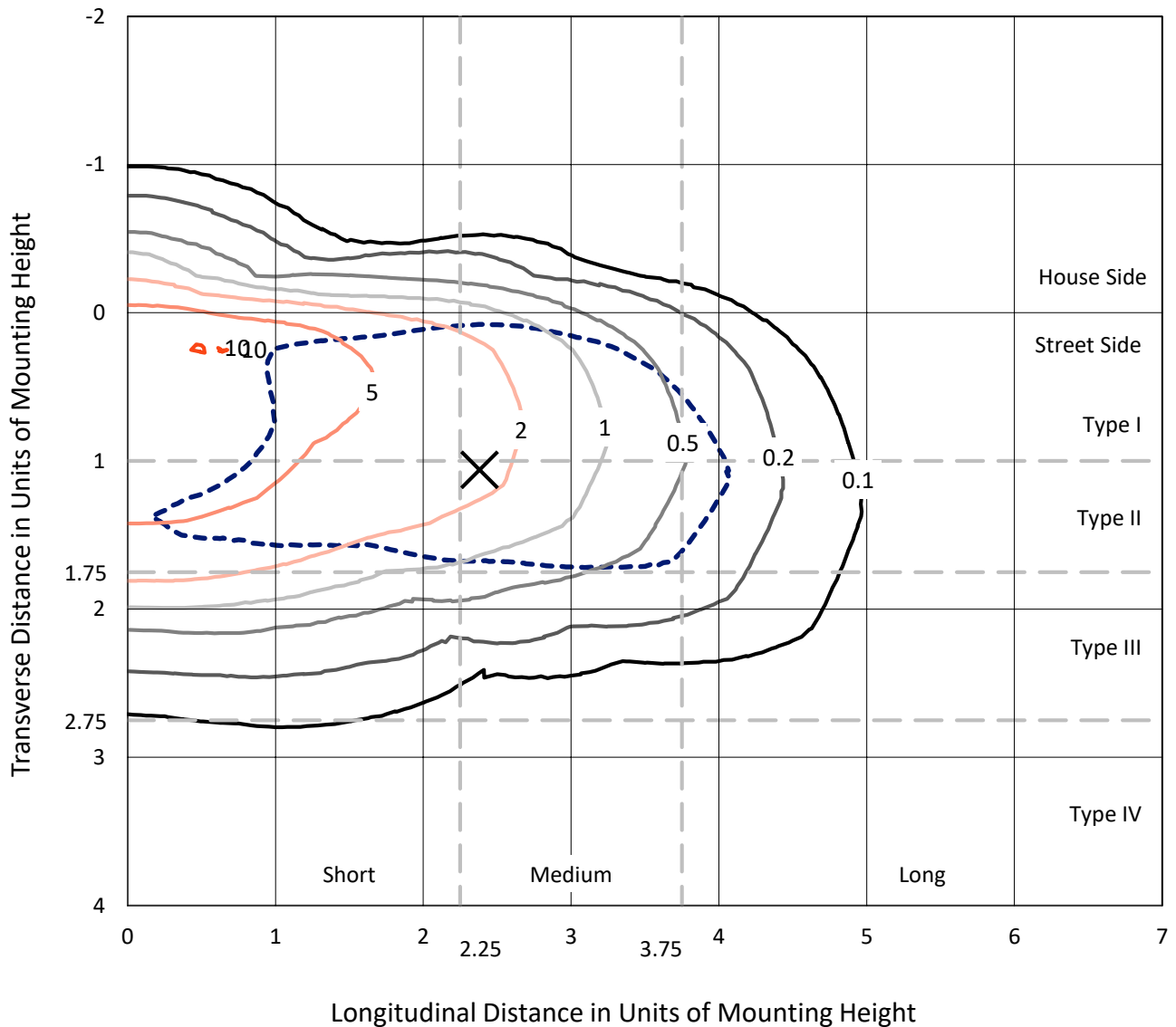
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

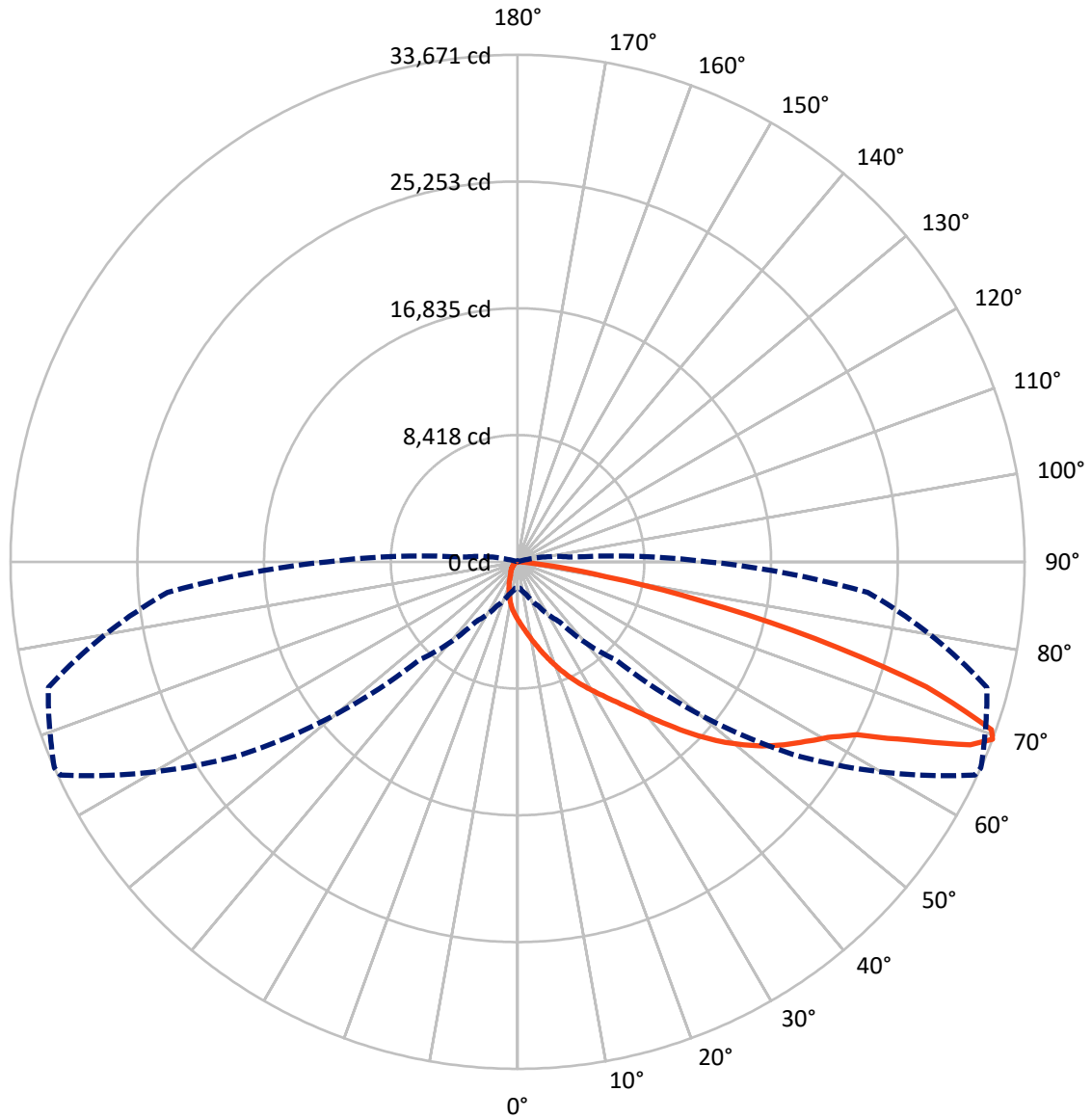
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type II - 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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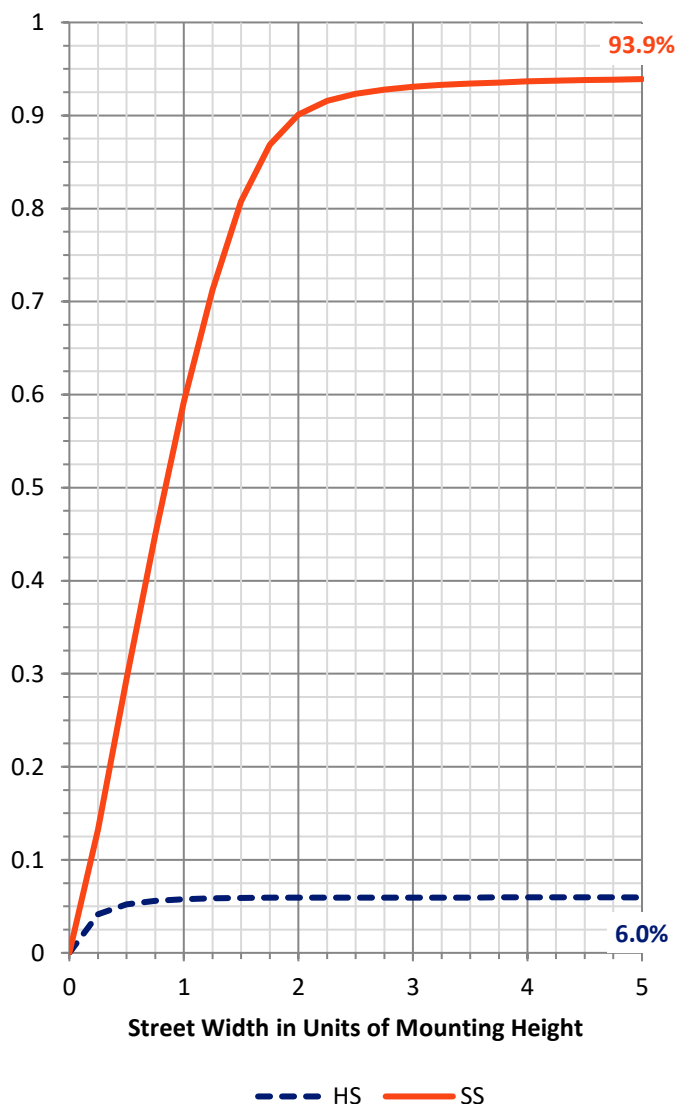
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2030.8	0.0	2030.8
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	31824.4	0.0	31824.4
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	33855.2	0.0	33855.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	372.4	1.1
10°-20°	1108.4	3.3
20°-30°	1930.2	5.7
30°-40°	3386.4	10.0
40°-50°	5668.4	16.7
50°-60°	8332.0	24.6
60°-70°	8554.9	25.3
70°-80°	4223.3	12.5
80°-90°	279.2	0.8
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°	33855.2	100.0
0°-180°	33855.2	100.0

**Coefficient of Utilization**

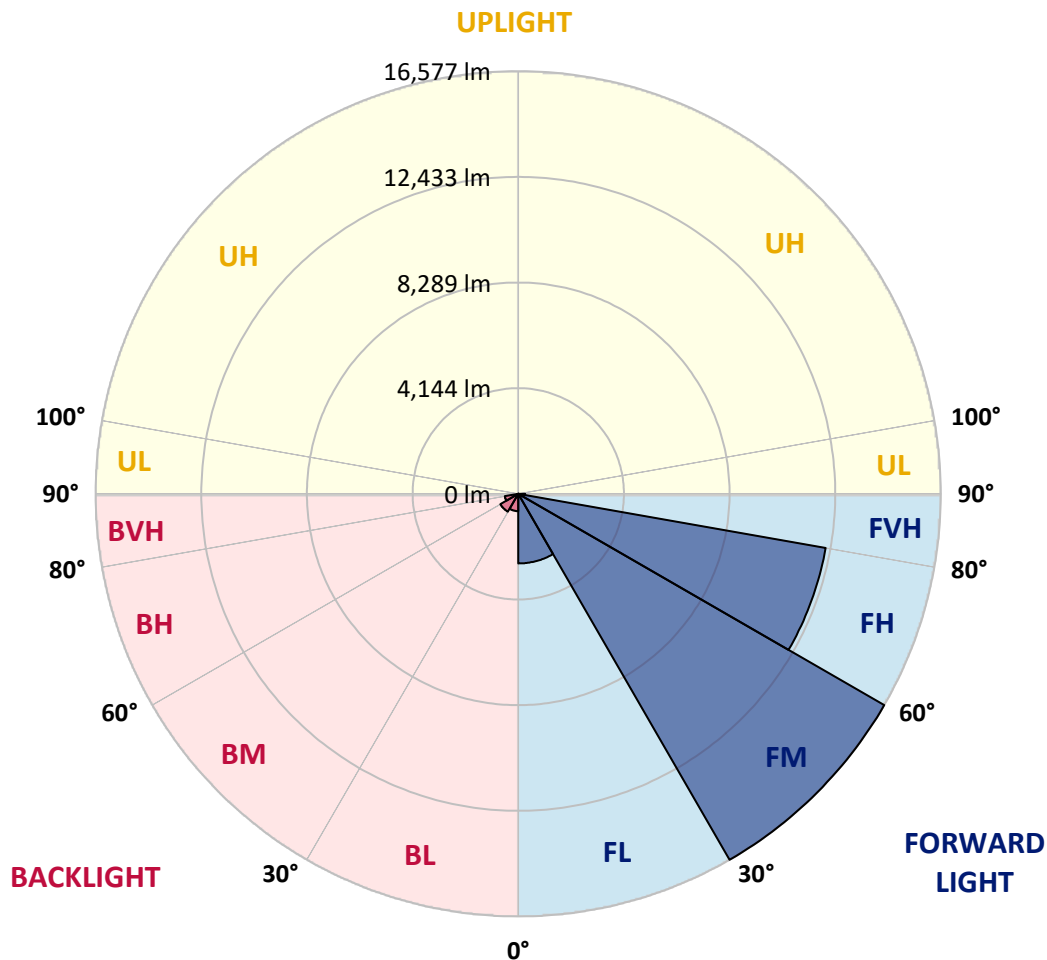


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2731.8	8.1			
FM (30°-60°)	16577.1	49.0			
FH (60°-80°)	12243.0	36.2			G5
FVH (80°-90°)	272.5	0.8			G3/500
BL (0°-30°)	679.2	2.0	B2/1000		
BM (30°-60°)	809.7	2.4	B1/1000		
BH (60°-80°)	535.2	1.6	B2/1000		G2/1000
BVH (80°-90°)	6.8	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-G5**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9
2.5°	4534.7	4515.3	4507.3	4471.9	4410.8	4364.2	4274.1	4169.6	4150.3	4049.0	3925.2
5°	5123.1	5107.1	5095.8	5046.0	4983.3	4865.8	4701.9	4507.3	4470.3	4277.4	4029.7
7.5°	5533.2	5562.2	5562.2	5530.0	5451.2	5362.7	5161.8	4896.4	4849.8	4554.0	4169.6
10°	5772.8	5808.2	5835.5	5862.9	5851.6	5816.2	5626.5	5327.4	5271.1	4878.8	4332.1
12.5°	5795.3	5830.7	5907.9	6022.1	6133.0	6213.4	6094.5	5804.9	5740.7	5255.0	4525.0
15°	5669.9	5706.8	5825.9	6047.8	6316.4	6551.1	6589.7	6334.1	6268.1	5703.7	4766.2
17.5°	5451.2	5475.4	5645.8	5953.0	6374.2	6805.1	7038.3	6901.6	6840.5	6216.6	5034.7
20°	5288.8	5306.5	5456.1	5785.7	6338.8	6964.3	7462.8	7504.6	7440.4	6766.6	5325.8
22.5°	5567.0	5599.2	5604.0	5759.9	6242.4	7043.2	7835.9	8098.0	8049.8	7350.3	5612.0
25°	6327.6	6364.6	6242.4	6145.9	6324.4	7078.6	8155.9	8705.9	8667.3	7979.1	5899.9
27.5°	7332.6	7371.2	7213.6	6925.8	6753.7	7212.0	8440.6	9323.3	9321.7	8644.8	6210.2
30°	8319.9	8358.5	8197.7	7909.9	7514.3	7589.9	8686.6	9969.8	9979.4	9331.4	6539.8
32.5°	9355.5	9403.8	9238.2	8868.2	8455.0	8242.7	9032.3	10619.5	10674.0	10127.3	6911.3
35°	10532.5	10539.0	10305.8	9918.3	9442.4	9115.9	9587.0	11347.8	11478.1	11113.1	7382.4
37.5°	11687.1	11733.8	11542.4	10931.3	10494.0	10124.2	10412.0	12258.0	12443.0	12317.5	7998.4
40°	12542.6	12640.7	12613.3	11954.1	11539.2	11275.5	11436.3	13340.2	13575.0	13719.6	8775.0
42.5°	13079.7	13153.6	13279.1	12881.9	12505.7	12549.1	12645.6	14600.9	14890.3	15318.1	9667.5
45°	13695.6	13730.9	13835.4	13660.2	13406.1	13843.5	13928.8	16020.8	16324.7	17037.1	10658.0
47.5°	14448.1	14531.8	14560.6	14399.9	14284.1	14988.4	15165.3	17312.1	17738.2	18878.3	11706.5
50°	15406.5	15429.0	15478.9	15374.4	15258.6	15972.5	16274.9	18667.6	19055.1	20725.9	12740.4
52.5°	16344.0	16424.4	16598.0	16532.2	16485.5	16810.3	17263.8	19889.7	20322.3	22266.3	13772.7
55°	16614.2	16683.3	17283.1	17693.2	18072.6	17842.7	18209.3	20984.8	21452.7	23642.9	14766.5
57.5°	15535.1	15675.1	16713.8	17781.6	19355.8	19447.5	19508.6	22108.8	22528.5	24697.7	15800.4
60°	12807.9	12835.2	14539.8	16371.3	19143.6	20848.0	21406.0	23316.4	23668.6	25680.2	17038.7
62.5°	8146.3	8424.5	10294.6	12880.3	16898.7	20645.4	23700.7	25143.1	25271.8	26858.8	18813.9
65°	3880.2	4060.2	5407.8	7958.1	12240.3	18051.7	25284.6	28447.6	28505.5	29195.4	21185.7
67.5°	2148.3	2235.2	2876.8	4283.8	7155.7	12766.1	24644.7	32361.6	32416.3	31581.7	23266.5
69°	1680.4	1754.4	2259.3	3228.9	4851.4	9175.4	22301.7	33508.0	33670.5	32265.1	23340.5
70°	1426.3	1498.7	1945.7	2727.2	3901.0	7089.8	19851.1	33223.5	33395.5	32200.7	22789.0
72.5°	873.1	915.0	1296.1	1920.0	2614.7	3566.6	12241.9	28097.1	28388.1	29537.9	19585.8
75°	588.6	611.1	810.4	1325.0	1870.2	1836.4	6359.8	19804.5	20434.8	22977.1	14465.8
77.5°	421.3	442.2	543.6	857.1	1310.5	1212.4	2880.0	12307.9	12443.0	13780.8	7889.0
80°	239.6	258.9	384.4	509.7	889.3	808.9	1144.9	5878.9	5946.4	5909.5	2634.0
82.5°	125.4	141.5	210.6	336.1	570.9	529.0	476.0	1968.3	1977.9	1645.0	577.3
85°	24.1	29.0	104.5	229.9	294.3	229.9	194.6	461.5	471.2	416.5	143.1
87.5°	0.0	1.6	41.8	51.4	57.8	59.5	62.7	90.1	96.5	130.2	38.6
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°	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9
2.5°	3870.5	3812.6	3701.7	3573.0	3473.4	3375.3	3298.1	3217.7	3188.7	3174.2	3172.7
5°	3909.1	3786.9	3552.2	3310.9	3113.1	2926.6	2793.2	2666.1	2606.7	2579.3	2568.0
7.5°	3973.4	3777.2	3399.4	3031.2	2746.5	2513.3	2328.4	2190.2	2120.9	2092.1	2080.8
10°	4049.0	3764.4	3220.9	2735.2	2371.8	2130.6	1947.3	1810.6	1735.1	1702.9	1686.8
12.5°	4137.5	3741.8	3015.0	2436.2	2051.8	1810.6	1588.8	1419.9	1333.0	1296.1	1278.4
15°	4246.8	3719.4	2799.6	2154.8	1770.4	1476.1	1233.4	1119.2	1101.5	1095.0	1096.7
17.5°	4354.5	3684.0	2564.8	1876.6	1474.5	1153.0	1029.2	1022.7	1025.9	1025.9	1025.9
20°	4451.0	3603.6	2309.1	1638.6	1193.1	972.8	947.1	935.8	927.8	921.4	913.4
22.5°	4526.6	3495.8	2063.1	1402.2	974.5	890.8	850.7	815.3	786.3	767.0	757.3
25°	4578.1	3352.7	1837.9	1175.4	876.4	810.4	738.1	678.6	633.5	606.3	595.0
27.5°	4616.7	3198.4	1637.0	984.1	808.9	717.2	622.3	551.6	504.9	480.8	471.2
30°	4644.0	3023.1	1460.1	865.1	733.2	619.1	517.8	448.6	414.9	402.0	395.5
32.5°	4669.8	2828.6	1292.9	808.9	662.5	529.0	434.2	381.1	360.2	344.1	339.3
35°	4734.0	2648.4	1133.7	749.3	590.1	451.9	373.1	334.4	313.6	303.9	300.7
37.5°	4886.8	2515.0	980.9	688.2	517.8	390.8	326.4	299.1	279.8	270.1	266.9
40°	5132.8	2447.5	852.3	622.3	447.0	344.1	295.9	270.1	249.3	234.7	231.6
42.5°	5494.6	2457.0	762.2	556.4	390.8	307.1	266.9	236.3	213.9	201.0	197.8
45°	5933.6	2527.8	699.5	492.0	344.1	278.2	234.7	202.6	181.7	170.5	167.2
47.5°	6409.6	2642.0	648.1	434.2	307.1	250.9	202.6	168.8	151.2	141.5	139.9
50°	6911.3	2752.9	595.0	377.9	275.0	223.5	170.5	139.9	125.4	117.4	114.2
52.5°	7419.4	2881.6	546.7	326.4	247.6	191.3	141.5	114.2	102.9	96.5	93.2
55°	7966.1	2978.1	500.1	286.3	220.3	162.4	117.4	94.8	85.2	77.2	75.5
57.5°	8609.4	3127.6	451.9	247.6	188.2	135.1	96.5	75.5	67.5	59.5	57.8
60°	9477.8	3302.9	400.4	218.7	154.4	110.9	78.8	61.1	51.4	45.0	43.4
62.5°	10622.6	3497.5	336.1	191.3	125.4	90.1	62.7	48.3	37.0	29.0	29.0
65°	12074.7	3814.2	275.0	160.8	102.9	74.0	48.3	35.4	20.9	12.9	12.9
67.5°	12922.1	3868.9	221.9	131.8	83.7	62.7	40.2	24.1	6.4	1.6	0.0
69°	12650.3	3552.2	188.2	112.5	72.4	59.5	37.0	17.7	3.3	0.0	0.0
70°	12139.0	3248.2	165.6	99.7	66.0	56.3	35.4	12.9	3.3	0.0	0.0
72.5°	10030.9	2312.4	125.4	74.0	48.3	49.8	32.1	8.0	3.3	0.0	0.0
75°	7306.9	1405.4	90.1	51.4	30.6	37.0	22.5	3.3	1.6	0.0	0.0
77.5°	4065.1	662.5	56.3	29.0	19.3	22.5	11.3	0.0	0.0	0.0	0.0
80°	1320.2	180.1	25.7	16.1	11.3	12.9	4.8	0.0	0.0	0.0	0.0
82.5°	244.4	51.4	14.4	8.0	3.3	3.3	0.0	0.0	0.0	0.0	0.0
85°	53.1	20.9	8.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.7	6.4	1.6	0.0	0.0	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)