

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: P534038

Luminaire Tested: **GALN-SA9C-730-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534038  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-730-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48687 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

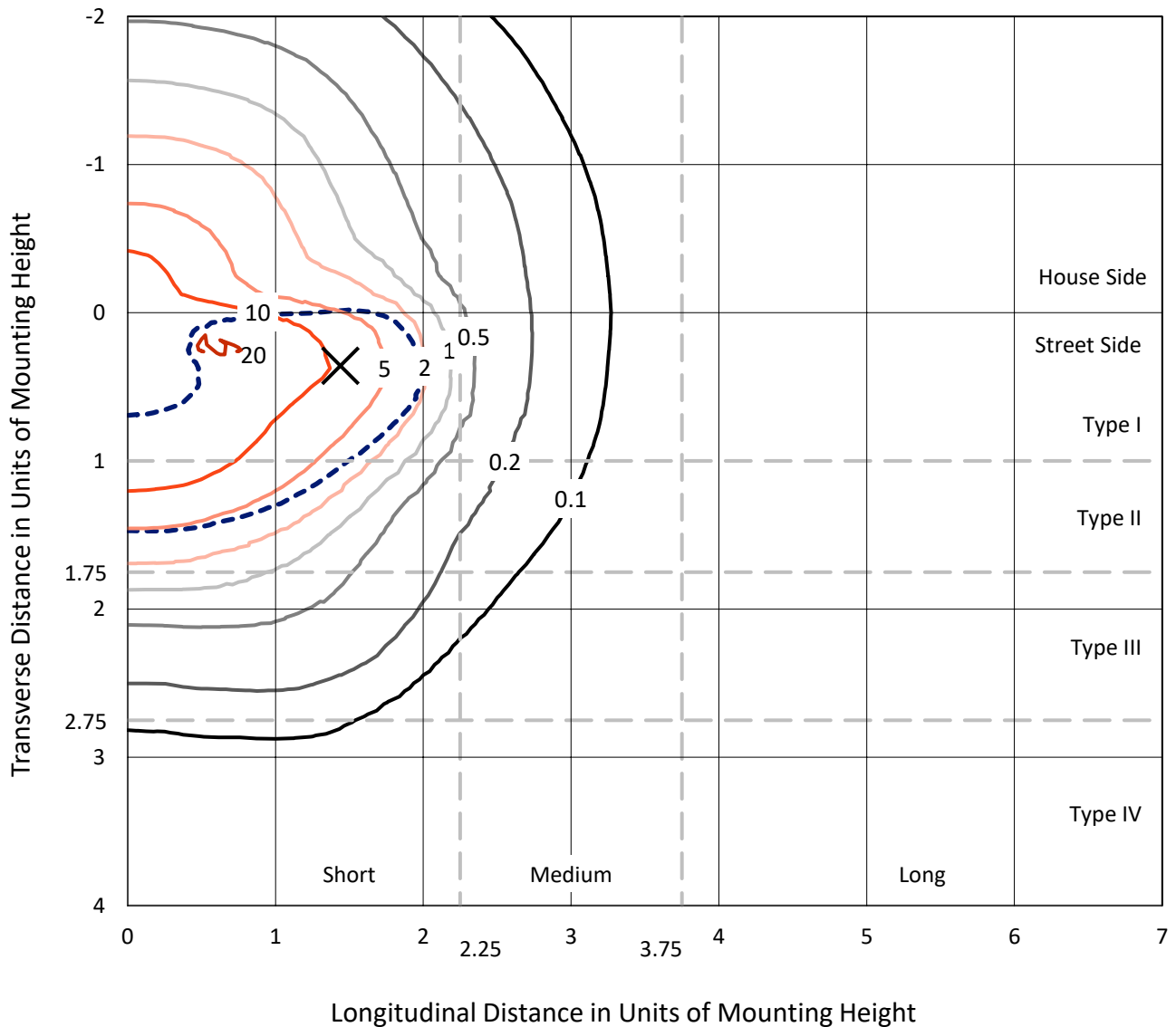
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

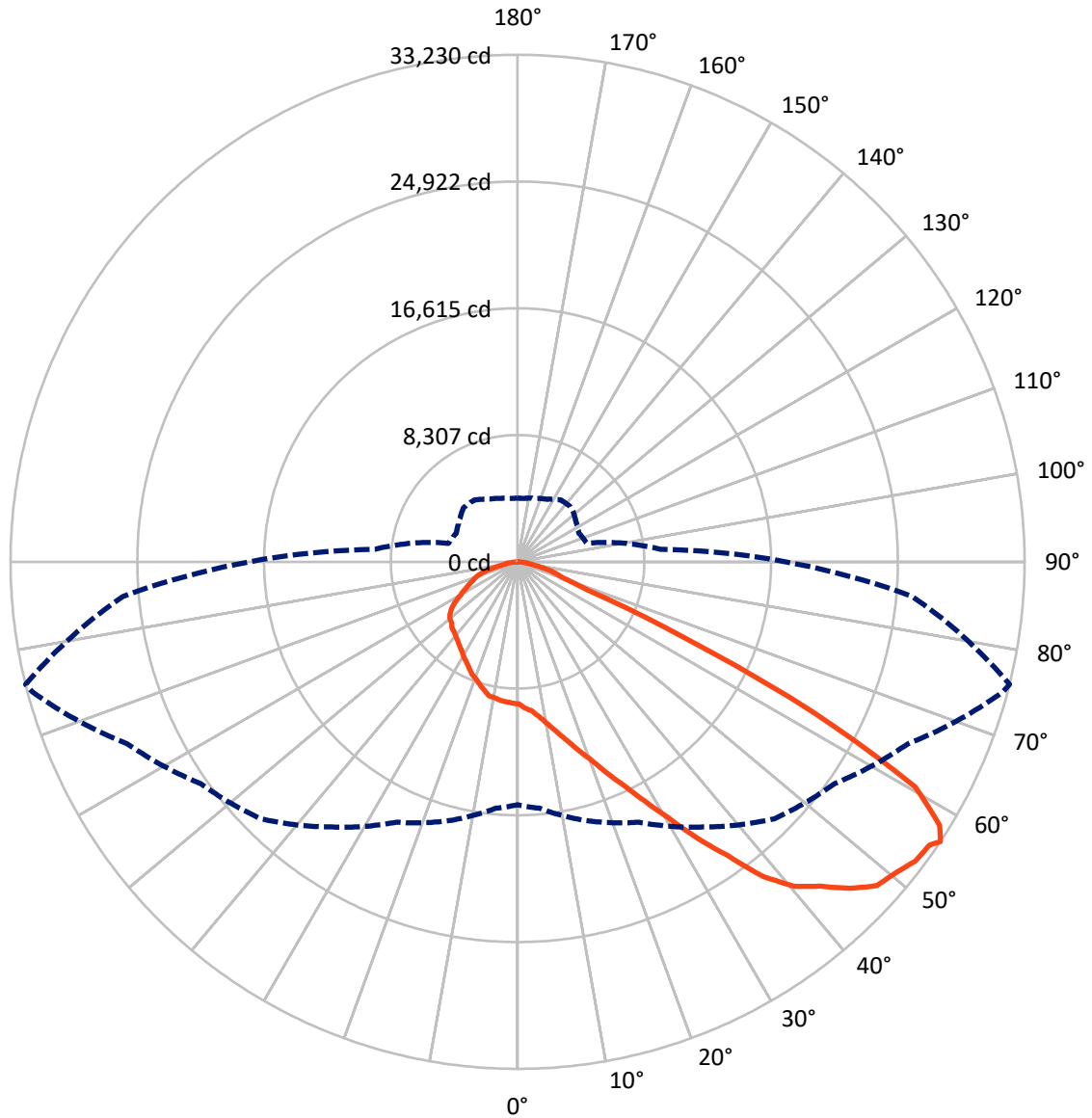
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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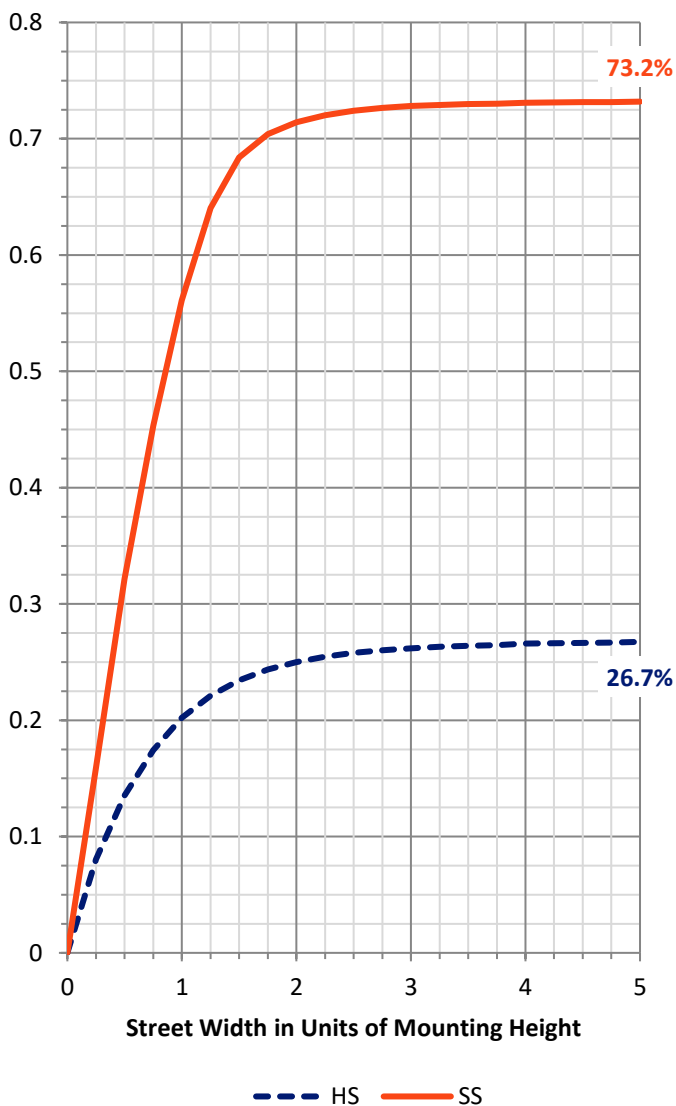
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13090.5	0.0	13090.5
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	35596.5	0.0	35596.5
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	48687.0	0.0	48687.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	923.8	1.9
10°-20°	2902.0	6.0
20°-30°	5075.3	10.4
30°-40°	7946.4	16.3
40°-50°	11559.8	23.7
50°-60°	12705.0	26.1
60°-70°	5670.9	11.6
70°-80°	1638.0	3.4
80°-90°	265.7	0.5
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°	48687.0	100.0
0°-180°	48687.0	100.0

**Coefficient of Utilization**

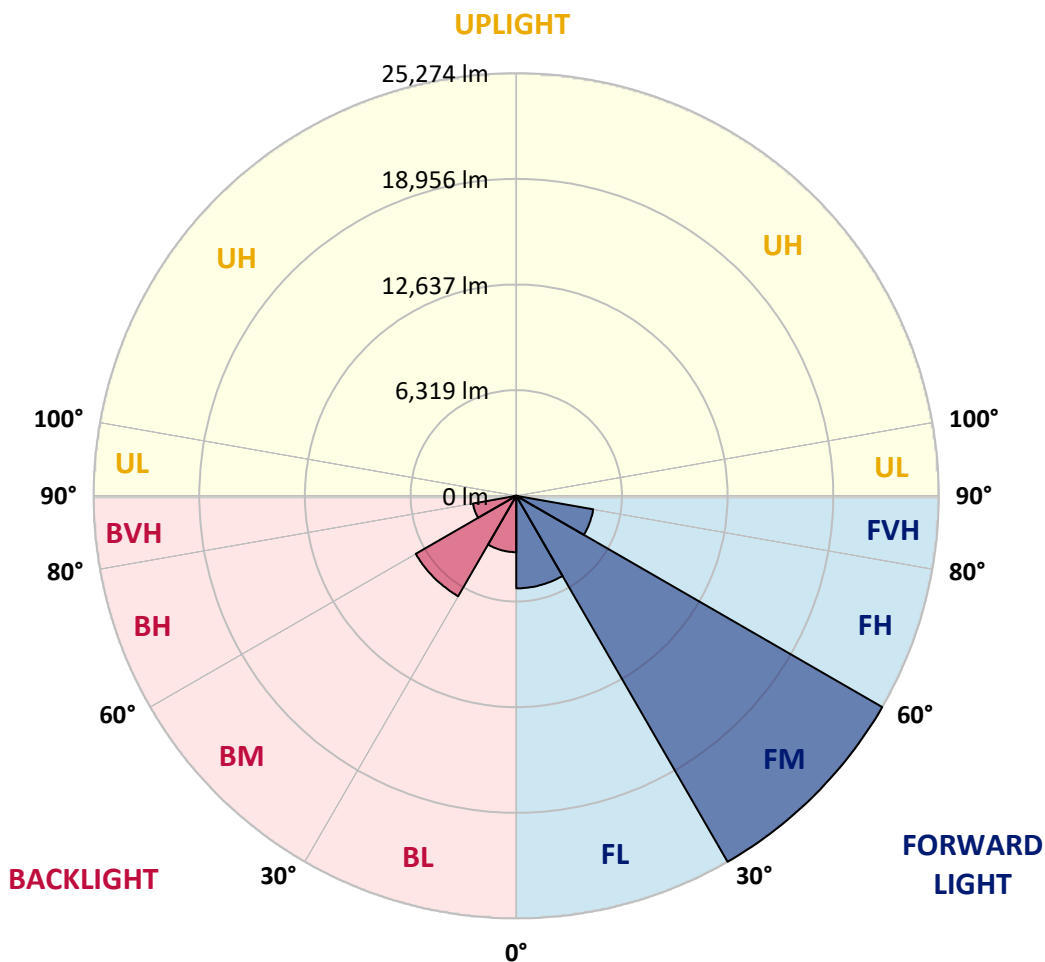


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5532.7	11.4			
FM (30°-60°)	25274.3	51.9			
FH (60°-80°)	4675.1	9.6			G2/5000
FVH (80°-90°)	114.4	0.2			G2/225
BL (0°-30°)	3368.4	6.9	B4/5000		
BM (30°-60°)	6936.9	14.2	B4/8500		
BH (60°-80°)	2633.8	5.4	B4/5000		G4/5000
BVH (80°-90°)	151.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	9315.6	9315.6	9315.6	9315.6	9315.6	9315.6	9315.6	9315.6	9315.6	9315.6	9315.6
2.5°	10262.3	10098.2	10085.6	10041.4	10066.7	9953.1	9833.2	9675.4	9511.3	9612.3	9372.4
5°	10981.8	10760.9	10849.3	10697.8	10716.8	10565.3	10319.1	10136.1	9934.1	9814.2	9643.8
7.5°	11234.3	11253.2	11316.3	11291.1	11164.9	11164.9	11000.8	10678.9	10325.5	10256.0	9972.0
10°	11575.1	11581.4	11512.0	11530.9	11707.7	11625.6	11480.4	11341.6	10887.2	10805.1	10300.2
12.5°	11695.0	11581.4	11695.0	11796.0	12004.3	12117.9	12086.3	11985.4	11499.4	11442.6	10704.1
15°	11714.0	11644.5	11739.2	11966.4	12149.5	12629.1	12869.0	12799.5	12155.8	12162.1	11158.6
17.5°	11625.6	11720.3	11758.1	11953.8	12376.7	12824.8	13519.0	13613.7	13083.5	13001.5	11732.9
20°	11745.5	11676.1	11726.6	11903.3	12465.0	13165.6	14074.4	14699.3	13954.5	13897.7	12326.2
22.5°	12206.3	12111.6	12099.0	12212.6	12616.5	13342.3	14661.4	15784.8	15014.8	15046.4	13064.6
25°	12566.0	12616.5	12572.3	12566.0	12818.5	13607.4	15437.7	17078.7	16453.8	16270.8	13935.6
27.5°	13184.5	13304.4	13216.1	13336.0	13279.2	14005.0	15993.1	18511.3	18006.4	17760.3	14724.5
30°	14042.9	14106.0	14023.9	14023.9	13853.5	14560.4	16498.0	20007.2	19798.9	19464.4	15652.3
32.5°	15172.6	15267.3	15103.2	15008.5	14983.3	15387.2	17406.9	21484.0	21837.5	21553.4	16883.0
35°	16668.4	16611.6	16416.0	16327.6	15986.8	16655.8	18757.5	23181.8	24109.6	23604.7	18372.5
37.5°	17987.5	17899.1	17886.5	17394.2	17476.3	18025.4	19906.2	24469.3	26312.2	26167.1	19944.0
40°	19218.2	19300.3	19432.8	19155.1	19028.9	19634.8	21244.2	25453.9	28022.6	27965.8	21155.8
42.5°	20537.3	20461.6	20695.1	20461.6	20272.2	21130.6	22695.8	26135.5	29524.7	29057.7	22424.4
45°	22449.7	22209.8	22291.9	22310.8	22172.0	22487.5	23295.4	26627.8	30578.8	30528.3	23352.2
47.5°	24046.4	24052.8	23913.9	23806.6	23383.8	23699.3	23964.4	26937.1	31790.5	31708.5	23711.9
50°	24639.7	24557.7	24961.6	25195.1	25220.4	24576.6	24488.2	27107.5	32428.0	32068.2	24071.7
52.5°	22506.5	22582.2	23219.7	24608.2	25409.7	25479.1	25100.5	27460.9	32686.8	32611.0	24362.0
55°	18113.7	18479.8	19527.5	21130.6	23030.3	25119.4	25763.2	27827.0	32825.6	32762.5	25649.5
56°	15923.7	16207.7	17570.9	18826.9	21212.6	23812.9	25346.6	28218.3	32932.9	33229.5	25952.5
57.5°	12818.5	13146.7	14124.9	15551.3	18366.2	21326.2	24197.9	27738.6	32516.4	32630.0	26173.4
60°	8015.5	8047.0	9221.0	10161.4	12143.1	15033.8	18467.2	24134.8	30092.8	29928.7	23510.0
62.5°	5257.4	5263.7	6330.3	7100.3	8002.9	8665.6	10868.2	16005.7	22203.5	21913.2	16737.8
65°	3692.2	3774.2	4601.0	5629.8	5995.8	5648.7	5579.3	8438.3	12401.9	11985.4	8993.8
67.5°	2701.3	2707.6	3439.7	4544.2	5074.4	4298.1	3490.2	4121.3	4910.3	4897.6	4165.5
70°	1786.1	1861.9	2423.6	3395.5	4001.4	3452.3	2852.8	2947.4	3124.1	3124.1	3098.9
72.5°	1041.4	1110.8	1483.2	2152.2	2246.9	2158.5	2259.5	2524.6	2638.2	2631.9	2600.3
75°	593.3	624.8	706.9	896.2	1117.1	1319.1	1659.9	1912.4	2026.0	2095.4	2013.3
77.5°	347.1	366.1	416.6	511.2	580.6	713.2	902.5	1079.3	1230.7	1211.8	1224.4
80°	183.0	183.0	233.5	302.9	403.9	504.9	599.6	700.6	782.6	801.5	820.5
82.5°	107.3	113.6	151.5	220.9	290.3	359.8	460.7	530.2	605.9	612.2	624.8
85°	56.8	63.1	94.7	145.2	195.7	220.9	227.2	214.6	233.5	220.9	252.5
87.5°	18.9	18.9	31.6	25.2	25.2	31.6	37.9	37.9	50.5	50.5	50.5
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°	9315.6	9315.6	9315.6	9315.6	9315.6	9315.6	9315.6	9315.6	9315.6	9315.6	9315.6
2.5°	9366.1	9366.1	9258.8	9056.9	9025.3	8943.3	8867.5	8861.2	8804.4	8753.9	8728.7
5°	9542.8	9347.2	9189.4	9006.4	8791.8	8690.8	8577.2	8451.0	8400.5	8451.0	8444.7
7.5°	9744.8	9580.7	9107.4	8766.5	8520.4	8419.4	8293.2	8160.6	8173.3	8173.3	8084.9
10°	9940.5	9719.6	8962.2	8526.7	8167.0	8091.2	8021.8	8072.3	8135.4	8148.0	8091.2
12.5°	10268.7	9770.1	8892.8	8286.9	8059.7	7895.6	7939.7	8078.6	8211.1	8173.3	8217.4
15°	10514.8	9814.2	8577.2	8040.7	7756.7	7832.5	7990.2	8084.9	8305.8	8280.6	8324.7
17.5°	10754.6	9839.5	8267.9	7712.5	7592.6	7800.9	7920.8	8192.2	8261.6	8413.1	8469.9
20°	11246.9	9890.0	7952.4	7510.6	7472.7	7712.5	7920.8	8047.0	8198.5	8331.1	8331.1
22.5°	11499.4	9864.7	7744.1	7245.5	7365.4	7516.9	7706.2	7920.8	7920.8	8047.0	8053.4
25°	11814.9	9763.7	7415.9	7119.3	7207.6	7352.8	7567.4	7491.6	7573.7	7573.7	7674.7
27.5°	12174.7	9549.2	7131.9	6892.1	7068.8	7226.6	7258.1	7207.6	7113.0	7100.3	7062.5
30°	12465.0	9284.1	6923.6	6816.3	6961.5	7049.8	6948.9	6841.6	6677.5	6664.8	6576.5
32.5°	12862.6	8955.9	6664.8	6627.0	6791.1	6797.4	6765.8	6601.7	6361.9	6260.9	6159.9
35°	13531.7	8766.5	6469.2	6526.0	6576.5	6557.5	6500.7	6324.0	6084.2	6040.0	6002.1
37.5°	14023.9	8627.7	6267.2	6336.6	6380.8	6406.1	6235.7	6040.0	6046.3	5958.0	5932.7
40°	14579.3	8539.3	6103.1	6134.7	6141.0	6223.0	6014.8	5920.1	5964.3	5907.5	5945.3
42.5°	15292.5	8564.6	5932.7	5907.5	6027.4	5995.8	5894.9	5768.6	5793.9	5623.5	5648.7
45°	15671.2	8735.0	5831.7	5718.1	5850.7	5844.4	5711.8	5591.9	5440.4	5112.2	5124.9
47.5°	15923.7	8779.2	5591.9	5516.2	5655.0	5737.1	5585.6	5307.9	5093.3	4859.8	4803.0
50°	16182.4	8861.2	5478.3	5320.5	5377.3	5573.0	5383.6	5118.5	4910.3	4702.0	4733.6
52.5°	16409.7	9019.0	5257.4	5023.9	5124.9	5339.4	5238.5	4916.6	4689.4	4519.0	4468.5
55°	17419.5	9372.4	4885.0	4582.1	4821.9	5093.3	5036.5	4645.2	4399.0	4310.7	4298.1
56°	17577.3	9385.1	4689.4	4430.6	4651.5	5011.3	4941.8	4525.3	4304.4	4165.5	4171.8
57.5°	17602.5	9233.6	4411.7	4291.8	4481.1	4891.3	4803.0	4430.6	4127.7	4001.4	3963.6
60°	15488.2	7207.6	4064.5	3988.8	4209.7	4525.3	4493.7	4171.8	3831.0	3685.9	3755.3
62.5°	10559.0	5282.6	3793.2	3780.5	3894.1	4203.4	4121.3	3831.0	3547.0	3452.3	3408.2
65°	6147.3	4007.7	3528.1	3477.6	3572.3	3736.4	3793.2	3490.2	3193.6	3130.5	3111.5
67.5°	3629.1	3313.5	3187.3	3105.2	3073.7	3174.6	3218.8	3042.1	2745.5	2657.1	2732.8
70°	3035.8	2947.4	2953.7	2814.9	2739.1	2669.7	2631.9	2474.1	2227.9	2114.3	2082.8
72.5°	2619.2	2581.4	2556.1	2429.9	2360.5	2202.7	2038.6	1880.8	1697.8	1603.1	1609.4
75°	2000.7	1988.1	2000.7	1937.6	1817.7	1691.5	1540.0	1338.0	1199.2	1079.3	1104.5
77.5°	1192.9	1230.7	1249.7	1224.4	1173.9	1060.3	965.6	833.1	700.6	605.9	593.3
80°	820.5	852.0	883.6	852.0	801.5	719.5	618.5	517.5	422.9	372.4	359.8
82.5°	624.8	656.4	675.3	643.8	580.6	492.3	422.9	353.4	277.7	227.2	214.6
85°	227.2	258.8	252.5	302.9	328.2	315.6	271.4	208.3	157.8	113.6	107.3
87.5°	63.1	56.8	63.1	63.1	63.1	56.8	50.5	50.5	50.5	31.6	25.2
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)