

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: P452529

Luminaire Tested: **GALN-SA3C-727-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452529  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-727-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14053 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

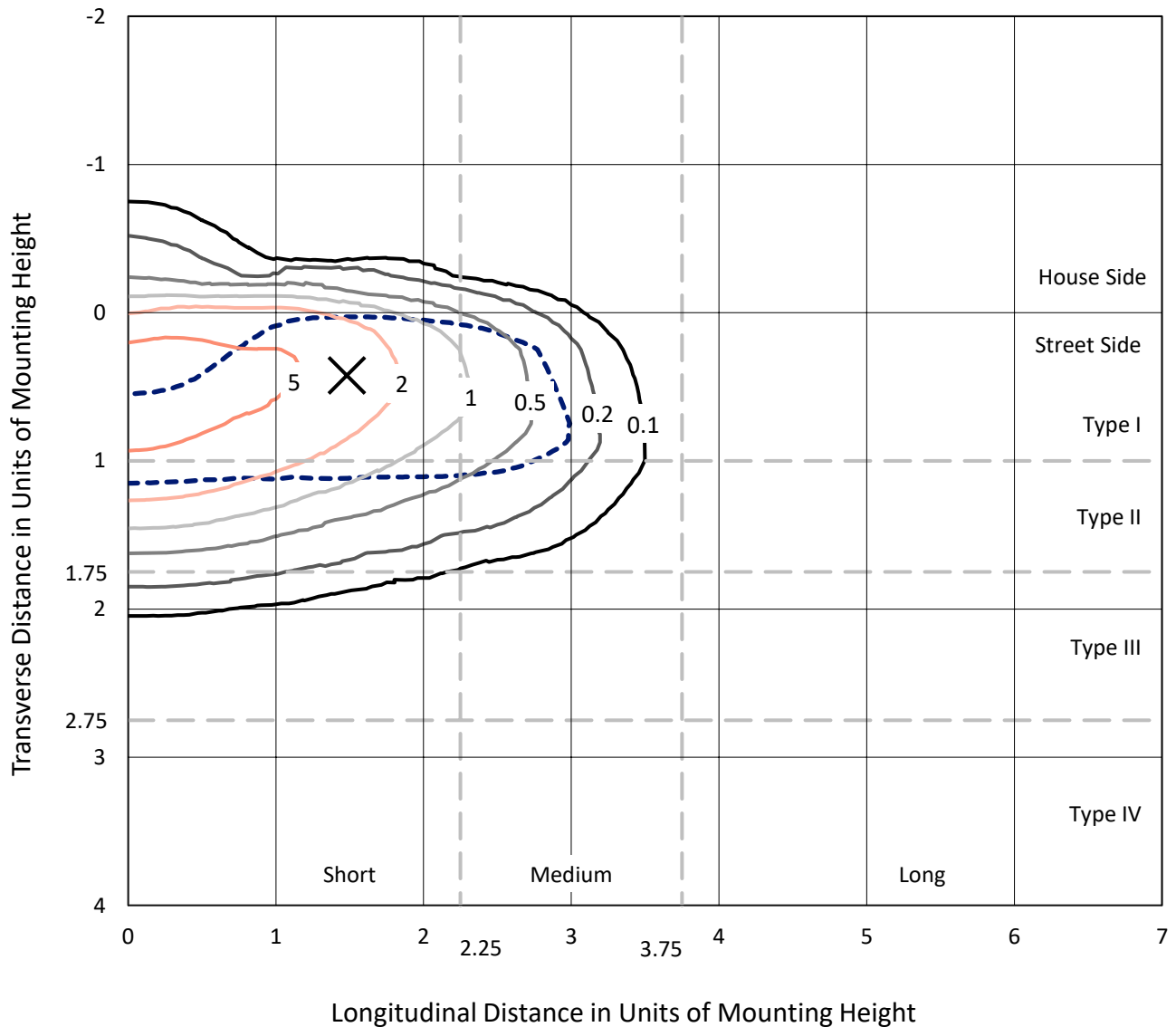
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

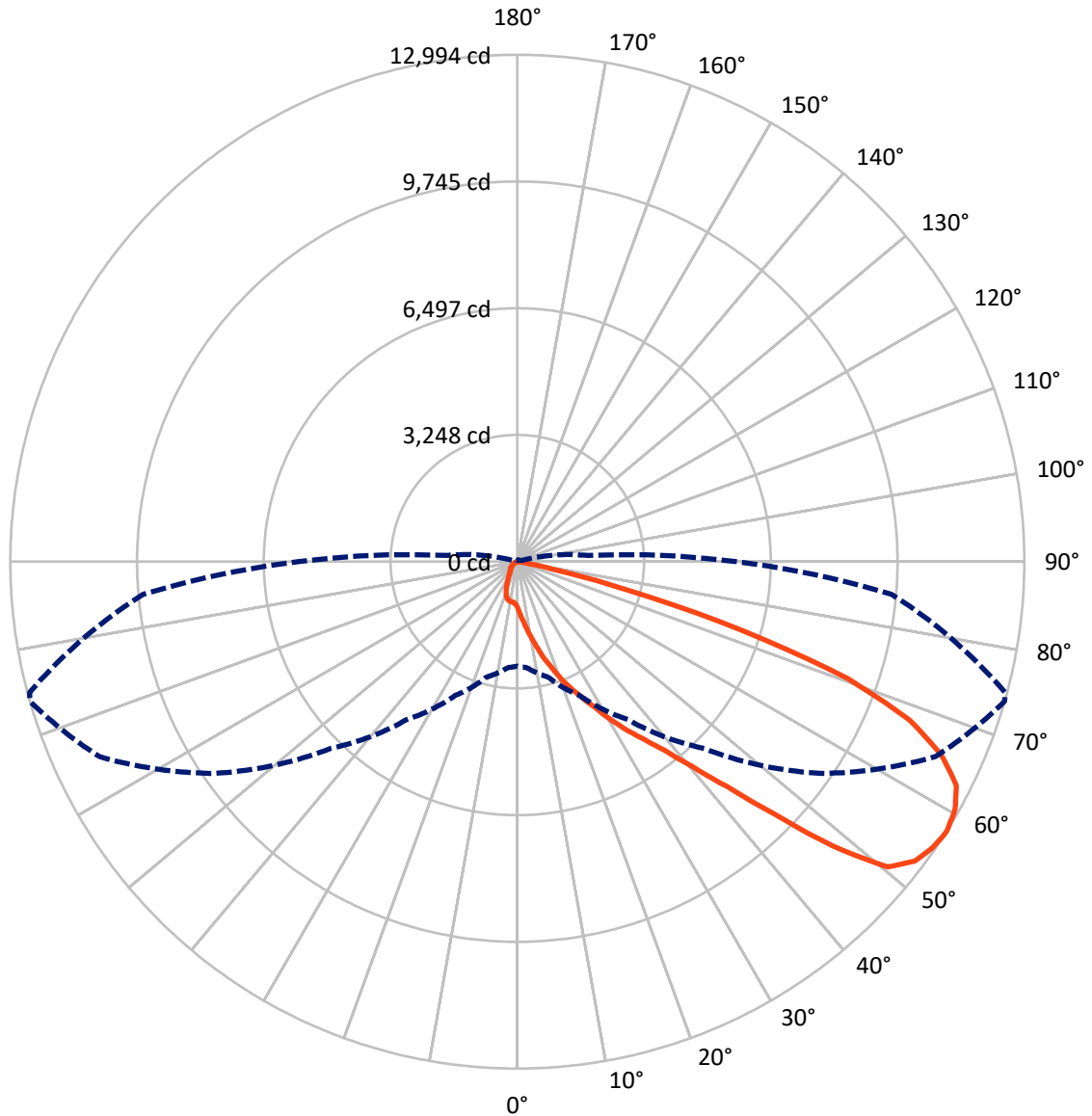
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 57-Deg Vertical

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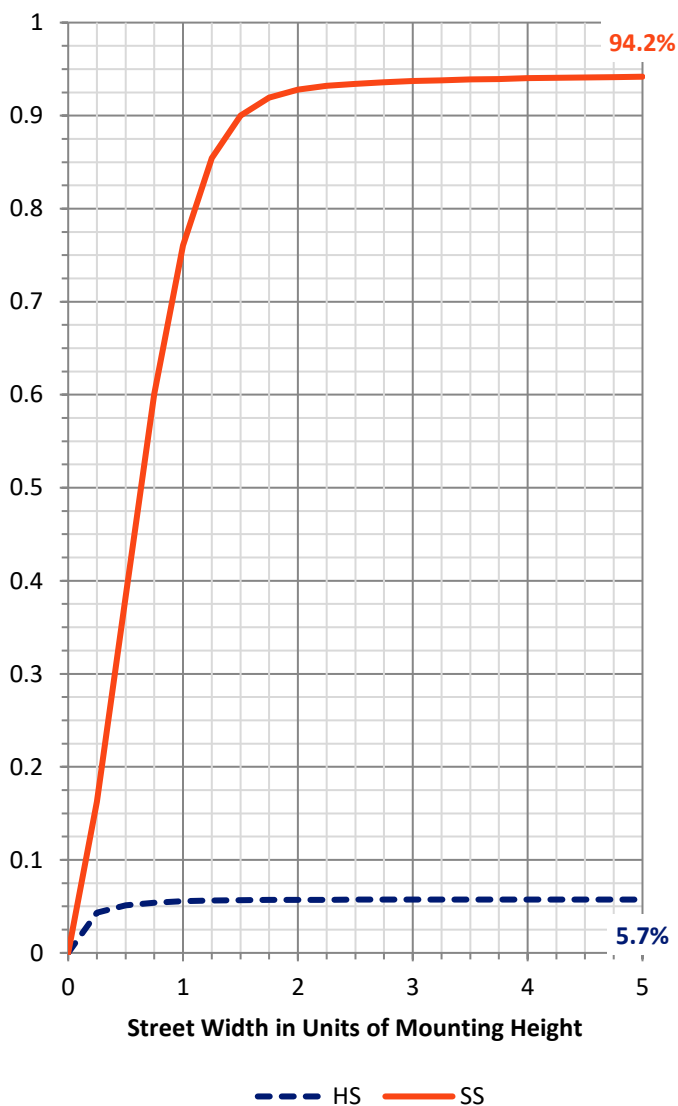
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	810.5	0.0	810.5
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	13242.5	0.0	13242.5
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	14053.0	0.0	14053.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.1	1.0
10°-20°	559.9	4.0
20°-30°	1198.1	8.5
30°-40°	2202.1	15.7
40°-50°	3375.9	24.0
50°-60°	3571.2	25.4
60°-70°	2332.1	16.6
70°-80°	637.2	4.5
80°-90°	34.3	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°	14053.0	100.0
0°-180°	14053.0	100.0

**Coefficient of Utilization**



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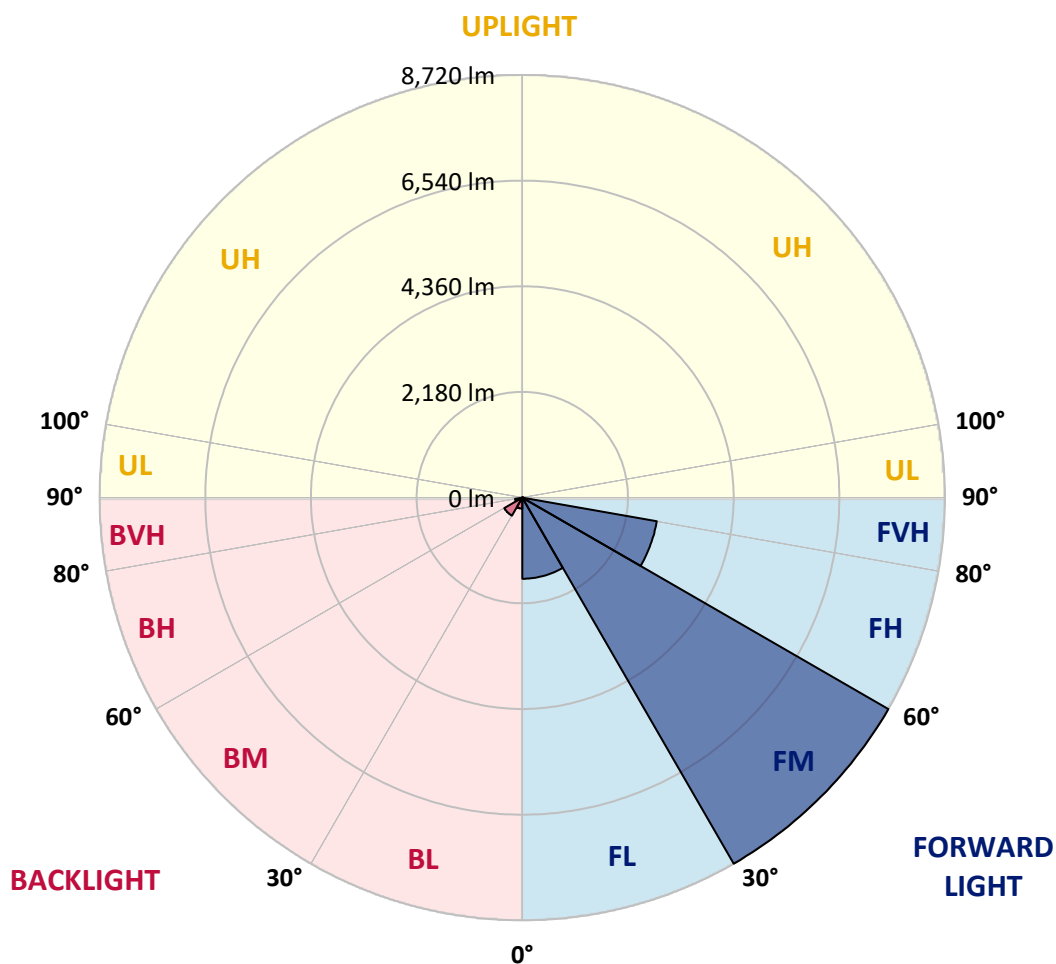
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1673.7	11.9			
FM (30°-60°)	8720.1	62.1			
FH (60°-80°)	2817.2	20.0			G2/5000
FVH (80°-90°)	31.5	0.2			G1/100
BL (0°-30°)	226.4	1.6	B1/500		
BM (30°-60°)	429.1	3.1	B1/1000		
BH (60°-80°)	152.2	1.1	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1176.9	1176.9	1176.9	1176.9	1176.9	1176.9	1176.9	1176.9	1176.9	1176.9	1176.9
2.5°	1722.2	1706.7	1675.6	1665.0	1619.4	1548.5	1486.4	1403.0	1337.0	1330.2	1250.7
5°	2306.3	2271.4	2256.8	2187.0	2077.3	1974.5	1797.9	1664.0	1509.7	1498.1	1338.0
7.5°	2869.0	2820.5	2806.0	2740.0	2611.9	2449.9	2220.9	1977.4	1732.9	1710.6	1455.4
10°	3276.6	3283.3	3257.1	3213.5	3109.7	2944.7	2662.4	2329.6	1981.3	1953.1	1587.3
12.5°	3568.6	3567.6	3572.5	3571.5	3516.2	3391.0	3094.1	2710.9	2254.9	2199.6	1738.7
15°	3758.8	3761.7	3776.2	3826.7	3832.5	3754.9	3507.5	3075.7	2572.1	2503.3	1902.7
17.5°	3950.9	3971.3	3994.5	4042.1	4084.8	4053.7	3879.1	3456.1	2859.3	2807.9	2078.3
20°	4268.2	4296.3	4282.7	4311.8	4334.1	4337.0	4202.2	3807.3	3207.7	3121.3	2279.1
22.5°	4775.6	4774.6	4739.7	4687.3	4643.6	4641.7	4519.5	4168.2	3524.0	3440.5	2480.9
25°	5416.9	5419.8	5351.9	5202.5	5093.8	4960.9	4820.2	4484.5	3862.6	3759.7	2693.4
27.5°	6152.4	6134.0	6031.1	5825.4	5610.0	5383.0	5180.2	4852.2	4221.6	4136.2	2937.0
30°	6813.1	6806.3	6686.0	6434.7	6151.4	5923.4	5629.4	5313.1	4686.3	4581.5	3209.6
32.5°	7428.3	7438.0	7271.1	7011.1	6737.5	6474.5	6164.0	5753.6	5142.4	4993.9	3506.5
35°	7908.6	7918.3	7745.6	7529.2	7247.8	7029.5	6733.6	6223.2	5592.6	5467.4	3848.0
37.5°	8164.7	8177.3	8077.4	7914.4	7738.8	7629.1	7353.6	6827.7	6139.8	6064.1	4251.7
40°	8213.2	8227.8	8184.1	8140.4	8130.7	8209.3	8128.8	7539.9	6898.5	6780.1	4853.2
42.5°	8067.7	8087.1	8106.5	8203.5	8401.4	8689.6	8970.0	8506.2	7875.6	7716.4	5588.7
45°	7685.4	7683.5	7760.1	8011.4	8454.8	9070.0	9849.1	9716.1	9206.8	9017.6	6627.8
47.5°	7031.4	7021.7	7187.7	7545.7	8236.5	9139.8	10566.1	11185.1	10905.7	10731.0	7744.6
50°	6035.0	6082.5	6343.5	6843.2	7694.1	8928.3	10787.3	12148.6	12299.9	12114.6	8646.9
52.5°	4867.8	4865.8	5275.3	5953.5	6890.8	8462.6	10633.0	12323.2	12753.0	12611.4	9091.3
55°	3602.6	3627.8	4053.7	4737.8	5847.7	7612.6	10129.5	12143.7	12925.7	12825.8	9384.3
57°	2679.8	2724.5	3066.0	3789.8	4939.6	6771.4	9459.0	11822.6	12993.7	12939.3	9627.8
57.5°	2501.3	2503.3	2836.1	3493.9	4673.7	6448.3	9266.9	11688.7	12991.7	12961.6	9667.6
60°	1539.8	1588.3	1818.3	2361.6	3421.1	5032.7	7979.4	10919.3	12890.8	12934.5	9837.4
62.5°	921.7	942.1	1091.5	1423.4	2205.4	3673.4	6529.8	9934.5	12627.9	12760.8	9825.8
65°	592.8	597.7	665.6	861.6	1378.7	2482.9	5031.7	8633.3	11947.7	12192.2	9441.6
67.5°	458.0	465.7	492.9	565.7	799.5	1546.6	3558.9	7244.9	10847.5	11162.8	8510.1
70°	406.5	410.4	420.1	443.4	528.8	873.2	2214.1	5659.5	8995.2	9084.5	6659.8
72.5°	331.8	342.5	372.6	380.3	419.2	545.3	1232.2	3798.6	6043.7	6066.0	3725.8
75°	257.1	259.1	303.7	326.0	353.2	375.5	550.1	1915.3	2903.0	2747.8	1436.0
77.5°	192.1	200.8	221.2	249.4	288.2	268.8	246.4	721.9	901.4	884.9	417.2
80°	123.2	128.1	154.3	187.3	224.1	175.6	138.7	211.5	197.9	203.8	99.9
82.5°	62.1	63.1	99.0	152.3	142.6	88.3	87.3	86.4	73.7	72.8	46.6
85°	6.8	14.6	64.0	87.3	64.0	29.1	40.8	39.8	38.8	39.8	27.2
87.5°	1.0	1.0	10.7	12.6	8.7	9.7	11.6	12.6	15.5	14.6	11.6
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°	1176.9	1176.9	1176.9	1176.9	1176.9	1176.9	1176.9	1176.9	1176.9	1176.9	1176.9
2.5°	1211.8	1173.0	1101.2	1032.4	980.9	947.9	905.2	889.7	867.4	864.5	853.8
5°	1264.2	1190.5	1065.3	966.4	886.8	826.7	774.3	730.6	695.7	687.9	691.8
7.5°	1339.0	1229.3	1054.7	919.8	809.2	706.3	622.9	571.5	534.6	521.0	523.0
10°	1423.4	1280.7	1052.7	870.3	701.5	575.4	484.2	438.6	417.2	409.4	400.7
12.5°	1523.3	1339.9	1047.9	793.7	583.1	458.9	393.9	366.8	346.4	340.6	340.6
15°	1635.9	1403.0	1024.6	698.6	473.5	379.4	335.7	314.4	307.6	301.7	301.7
17.5°	1753.3	1465.1	976.1	581.2	393.0	325.0	297.9	285.3	275.6	268.8	268.8
20°	1887.1	1526.2	898.5	477.4	331.8	290.1	268.8	254.2	246.4	240.6	238.7
22.5°	2014.3	1575.7	799.5	392.0	289.1	261.0	241.6	226.1	218.3	215.4	215.4
25°	2146.2	1605.8	680.1	324.1	263.9	236.7	215.4	202.8	196.0	194.1	193.1
27.5°	2274.3	1623.2	575.4	283.3	240.6	214.4	194.1	184.3	177.6	175.6	176.6
30°	2429.5	1626.1	473.5	254.2	220.2	193.1	174.6	165.9	162.0	160.1	159.1
32.5°	2586.7	1622.3	397.8	236.7	200.8	174.6	159.1	152.3	149.4	146.5	146.5
35°	2763.3	1601.9	338.6	219.3	182.4	159.1	145.5	139.7	135.8	132.9	132.0
37.5°	2982.6	1591.2	304.7	199.9	165.9	144.6	132.0	126.1	123.2	119.3	118.4
40°	3328.0	1638.8	294.0	182.4	149.4	131.0	119.3	112.5	108.7	104.8	103.8
42.5°	3758.8	1722.2	276.5	164.9	134.9	118.4	106.7	99.0	92.2	87.3	85.4
45°	4316.7	1831.8	249.4	146.5	122.3	104.8	94.1	84.4	75.7	71.8	70.8
47.5°	4901.7	1937.6	225.1	132.0	108.7	93.1	81.5	70.8	63.1	60.2	59.2
50°	5260.7	1958.9	209.6	115.5	95.1	80.5	68.9	59.2	54.3	51.4	51.4
52.5°	5424.7	1925.0	188.2	100.9	82.5	70.8	59.2	51.4	48.5	46.6	45.6
55°	5539.2	1872.6	160.1	87.3	70.8	60.2	52.4	46.6	42.7	40.8	39.8
57°	5606.1	1801.8	138.7	76.7	61.1	52.4	46.6	41.7	37.8	34.0	34.0
57.5°	5609.0	1774.6	132.9	75.7	58.2	50.5	45.6	40.8	35.9	32.0	31.0
60°	5522.7	1588.3	106.7	64.0	46.6	42.7	37.8	32.0	25.2	21.3	20.4
62.5°	5245.2	1351.6	88.3	54.3	37.8	33.0	27.2	24.3	17.5	12.6	12.6
65°	4825.1	1096.4	75.7	43.7	31.0	24.3	18.4	17.5	10.7	5.8	4.9
67.5°	4217.7	853.8	64.0	35.9	26.2	17.5	12.6	11.6	5.8	1.9	0.0
70°	3213.5	582.2	53.4	29.1	19.4	12.6	8.7	6.8	3.9	1.0	0.0
72.5°	1852.2	320.2	44.6	22.3	14.6	9.7	6.8	3.9	3.9	0.0	0.0
75°	661.7	137.8	34.0	16.5	11.6	7.8	4.9	1.9	2.9	1.0	0.0
77.5°	210.5	73.7	22.3	12.6	9.7	5.8	3.9	1.9	1.9	1.0	0.0
80°	62.1	38.8	13.6	10.7	6.8	4.9	2.9	1.0	1.9	1.0	0.0
82.5°	34.0	19.4	10.7	7.8	6.8	3.9	2.9	1.0	1.0	1.0	0.0
85°	17.5	11.6	8.7	7.8	6.8	3.9	2.9	1.0	0.0	1.0	1.0
87.5°	9.7	8.7	8.7	7.8	6.8	4.9	2.9	1.0	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)