

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: P459286

Luminaire Tested: **GALN-SA7C-735-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459286  
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-SA7C-735-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 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: 36521 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

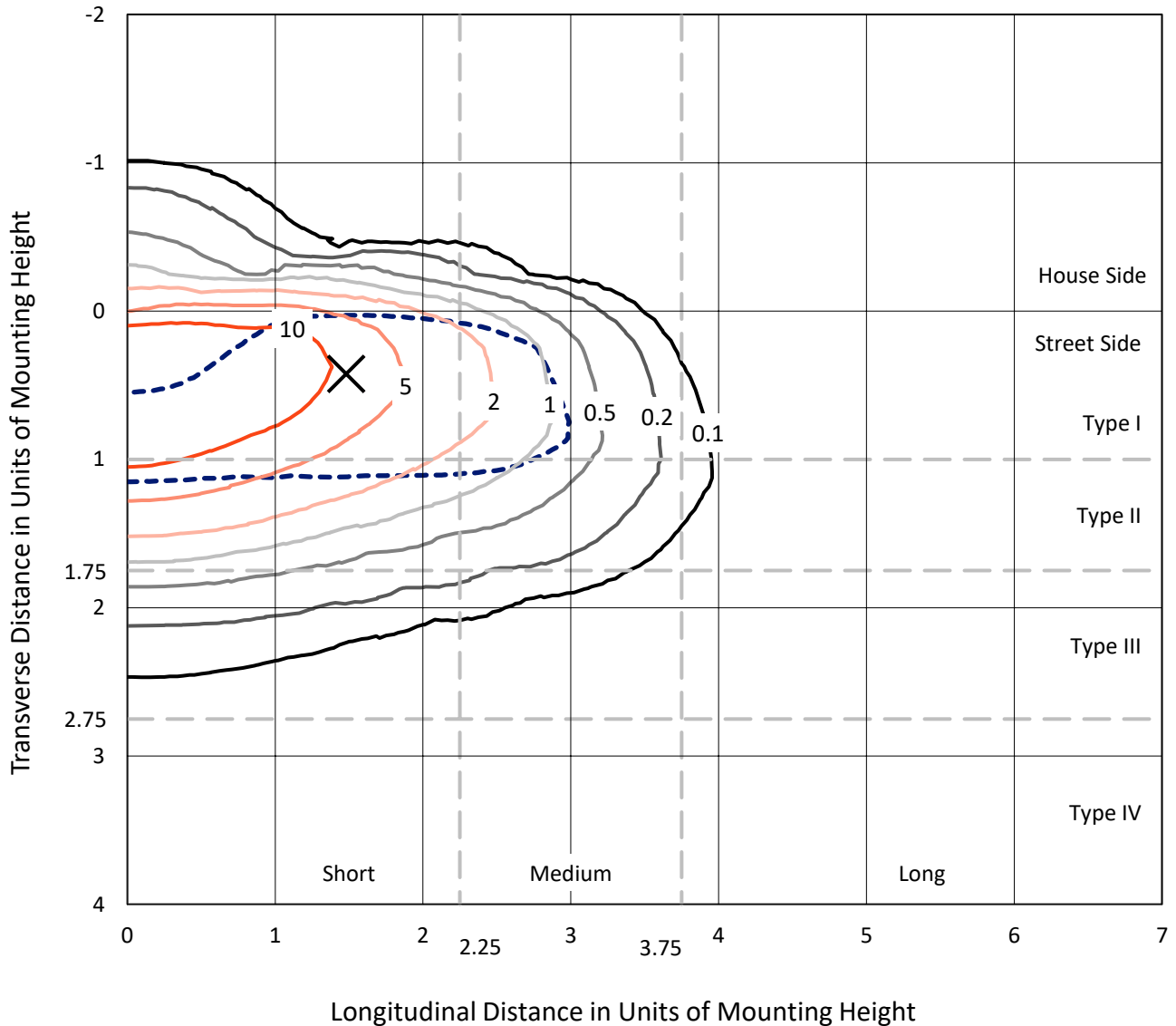
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

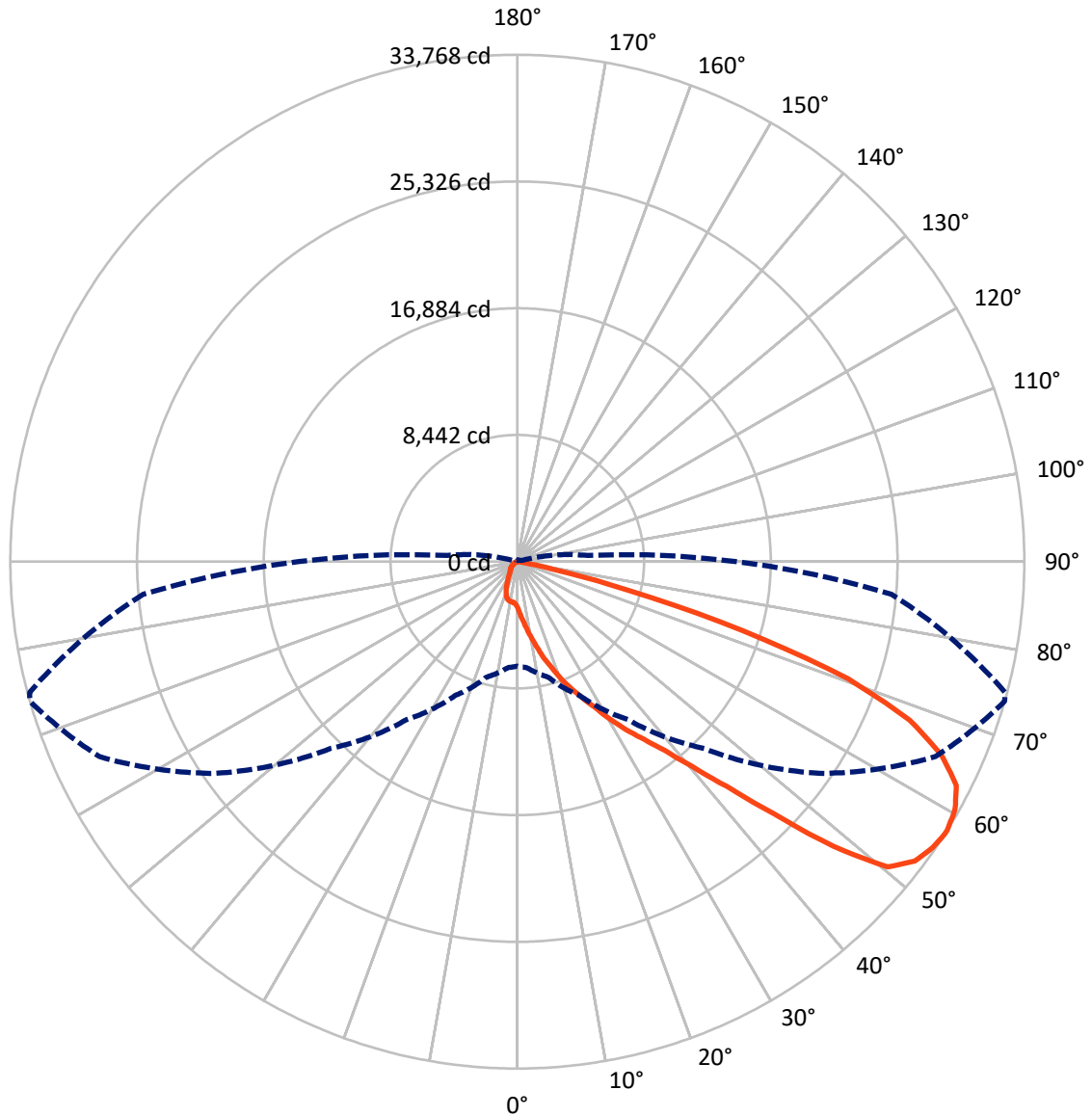
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 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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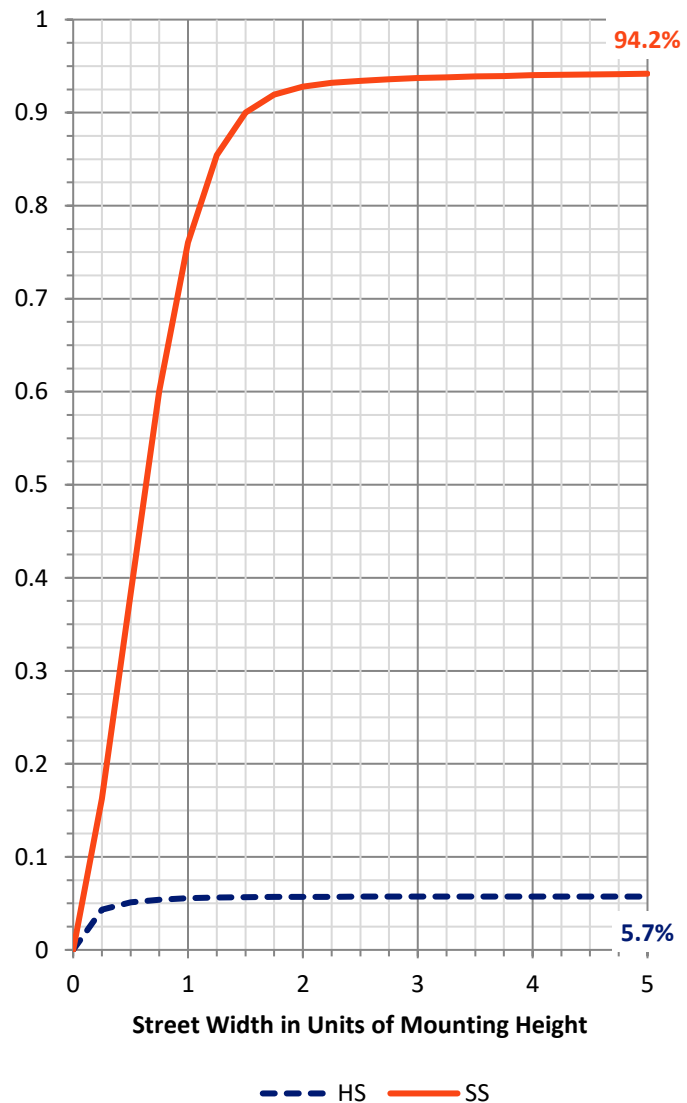
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2106.4	0.0	2106.4
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	34414.6	0.0	34414.6
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	36521.0	0.0	36521.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	369.2	1.0
10°-20°	1455.2	4.0
20°-30°	3113.7	8.5
30°-40°	5722.9	15.7
40°-50°	8773.3	24.0
50°-60°	9281.0	25.4
60°-70°	6060.7	16.6
70°-80°	1656.0	4.5
80°-90°	89.2	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°	36521.0	100.0
0°-180°	36521.0	100.0

**Coefficient of Utilization**

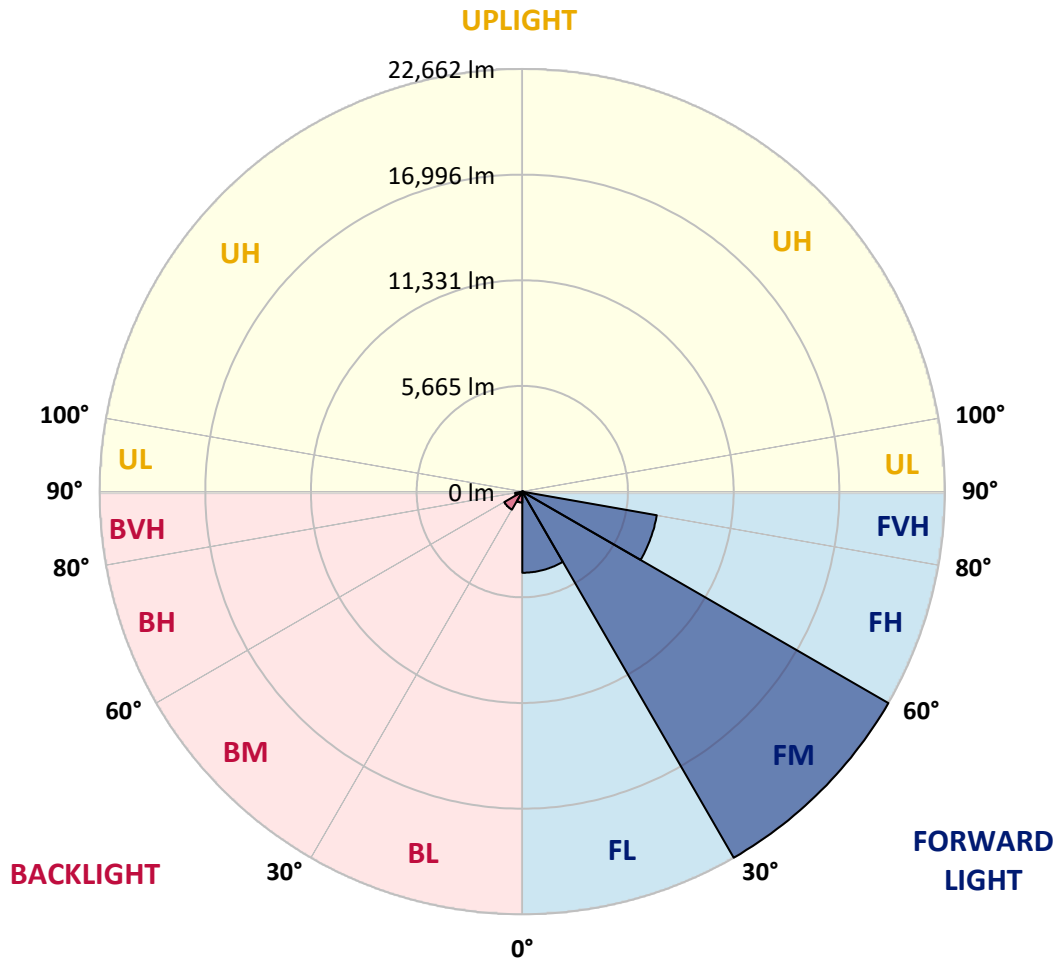


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4349.6	11.9			
FM	(30°-60°)	22661.9	62.1			
FH	(60°-80°)	7321.2	20.0			G3/7500
FVH	(80°-90°)	81.8	0.2			G1/100
BL	(0°-30°)	588.4	1.6	B2/1000		
BM	(30°-60°)	1115.2	3.1	B2/2500		
BH	(60°-80°)	395.5	1.1	B1/500		G1/500
BVH	(80°-90°)	7.4	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-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6
2.5°	4475.7	4435.3	4354.6	4326.9	4208.4	4024.3	3862.9	3646.1	3474.6	3457.0	3250.2
5°	5993.6	5902.8	5865.0	5683.5	5398.5	5131.3	4672.3	4324.4	3923.5	3893.2	3477.2
7.5°	7456.1	7330.0	7292.2	7120.7	6787.9	6366.8	5771.7	5138.8	4503.4	4445.4	3782.3
10°	8515.1	8532.8	8464.7	8351.2	8081.4	7652.8	6919.0	6054.1	5148.9	5075.8	4125.2
12.5°	9274.1	9271.6	9284.2	9281.7	9137.9	8812.7	8041.1	7045.1	5860.0	5716.3	4518.5
15°	9768.3	9775.9	9813.7	9944.8	9959.9	9758.2	9115.2	7993.2	6684.5	6505.5	4944.7
17.5°	10267.6	10320.5	10381.0	10504.6	10615.5	10534.9	10081.0	8981.6	7430.9	7297.2	5401.1
20°	11092.1	11165.2	11129.9	11205.6	11263.6	11271.1	10920.6	9894.4	8336.1	8111.7	5923.0
22.5°	12410.9	12408.3	12317.6	12181.4	12067.9	12062.9	11745.2	10832.4	9158.1	8941.3	6447.5
25°	14077.6	14085.1	13908.6	13520.3	13237.9	12892.5	12526.8	11654.4	10038.1	9770.8	6999.7
27.5°	15988.9	15941.0	15673.7	15139.1	14579.3	13989.3	13462.3	12610.0	10971.1	10749.2	7632.6
30°	17706.0	17688.4	17375.7	16722.6	15986.3	15393.8	14629.8	13807.8	12178.9	11906.5	8341.1
32.5°	19304.6	19329.9	18896.2	18220.4	17509.3	16826.0	16019.1	14952.5	13364.0	12978.2	9112.7
35°	20552.8	20578.0	20129.2	19566.9	18835.6	18268.3	17499.2	16172.9	14534.0	14208.7	10000.3
37.5°	21218.5	21251.2	20991.5	20567.9	20111.5	19826.6	19110.5	17743.8	15956.1	15759.4	11049.2
40°	21344.5	21382.4	21268.9	21155.4	21130.2	21334.5	21125.2	19594.6	17927.9	17620.3	12612.6
42.5°	20966.3	21016.7	21067.2	21319.3	21833.7	22582.6	23311.3	22106.0	20467.1	20053.5	14523.9
45°	19972.8	19967.8	20167.0	20820.1	21972.4	23571.0	25595.8	25250.4	23926.6	23434.9	17224.4
47.5°	18273.4	18248.1	18679.3	19609.7	21405.1	23752.6	27459.2	29067.9	28341.7	27887.9	20126.7
50°	15683.8	15807.3	16485.6	17784.2	19995.5	23202.9	28034.1	31571.8	31965.1	31483.5	22471.7
52.5°	12650.4	12645.4	13709.4	15472.0	17907.7	21992.6	27633.2	32025.6	33142.7	32774.5	23626.5
55°	9362.3	9427.9	10534.9	12312.5	15197.1	19783.7	26324.5	31559.2	33591.5	33331.8	24388.0
57°	6964.4	7080.4	7968.0	9849.0	12837.0	17597.6	24582.2	30724.5	33768.0	33626.8	25020.9
57.5°	6500.4	6505.5	7370.4	9079.9	12146.1	16757.9	24082.9	30376.6	33763.0	33684.8	25124.3
60°	4001.6	4127.7	4725.3	6137.3	8890.8	13079.0	20736.9	28377.0	33500.7	33614.2	25565.5
62.5°	2395.4	2448.4	2836.7	3699.0	5731.4	9546.4	16969.7	25817.7	32817.4	33162.8	25535.3
65°	1540.6	1553.2	1729.8	2239.1	3583.1	6452.5	13076.5	22436.4	31049.8	31685.2	24536.8
67.5°	1190.2	1210.3	1280.9	1470.0	2077.7	4019.3	9248.9	18828.1	28190.4	29009.9	22116.1
70°	1056.5	1066.6	1091.8	1152.3	1374.2	2269.4	5754.1	14707.9	23376.9	23608.9	17307.6
72.5°	862.4	890.1	968.3	988.4	1089.3	1417.1	3202.3	9871.7	15706.5	15764.5	9682.6
75°	668.2	673.2	789.2	847.2	917.8	975.8	1429.7	4977.5	7544.3	7140.9	3731.8
77.5°	499.3	522.0	574.9	648.0	748.9	698.5	640.5	1876.0	2342.5	2299.6	1084.2
80°	320.2	332.8	400.9	486.7	582.5	456.4	360.6	549.7	514.4	529.5	259.7
82.5°	161.4	163.9	257.2	395.9	370.7	229.5	226.9	224.4	191.6	189.1	121.0
85°	17.7	37.8	166.4	226.9	166.4	75.6	105.9	103.4	100.9	103.4	70.6
87.5°	2.5	2.5	27.7	32.8	22.7	25.2	30.3	32.8	40.3	37.8	30.3
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°	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6
2.5°	3149.4	3048.5	2861.9	2682.9	2549.2	2463.5	2352.6	2312.2	2254.2	2246.7	2218.9
5°	3285.5	3093.9	2768.6	2511.4	2304.7	2148.3	2012.2	1898.7	1807.9	1787.7	1797.8
7.5°	3479.7	3194.7	2740.9	2390.4	2102.9	1835.7	1618.8	1485.2	1389.3	1354.0	1359.1
10°	3699.0	3328.4	2735.8	2261.8	1823.0	1495.3	1258.2	1139.7	1084.2	1064.1	1041.4
12.5°	3958.8	3482.2	2723.2	2062.6	1515.4	1192.7	1023.7	953.1	900.2	885.0	885.0
15°	4251.3	3646.1	2662.7	1815.5	1230.5	985.9	872.4	817.0	799.3	784.2	784.2
17.5°	4556.4	3807.5	2536.6	1510.4	1021.2	844.7	774.1	741.3	716.1	698.5	698.5
20°	4904.3	3966.3	2334.9	1240.6	862.4	753.9	698.5	660.6	640.5	625.3	620.3
22.5°	5234.6	4094.9	2077.7	1018.7	751.4	678.3	627.9	587.5	567.3	559.8	559.8
25°	5577.6	4173.1	1767.6	842.2	685.8	615.2	559.8	527.0	509.3	504.3	501.8
27.5°	5910.4	4218.5	1495.3	736.3	625.3	557.3	504.3	479.1	461.4	456.4	458.9
30°	6313.8	4226.0	1230.5	660.6	572.4	501.8	453.9	431.2	421.1	416.0	413.5
32.5°	6722.3	4216.0	1033.8	615.2	522.0	453.9	413.5	395.9	388.3	380.7	380.7
35°	7181.2	4163.0	880.0	569.9	474.0	413.5	378.2	363.1	353.0	345.4	342.9
37.5°	7751.1	4135.3	791.8	519.4	431.2	375.7	342.9	327.8	320.2	310.1	307.6
40°	8648.8	4258.8	764.0	474.0	388.3	340.4	310.1	292.5	282.4	272.3	269.8
42.5°	9768.3	4475.7	718.6	428.7	350.5	307.6	277.4	257.2	239.5	226.9	221.9
45°	11218.2	4760.6	648.0	380.7	317.7	272.3	244.6	219.4	196.7	186.6	184.1
47.5°	12738.6	5035.4	585.0	342.9	282.4	242.1	211.8	184.1	163.9	156.3	153.8
50°	13671.6	5090.9	544.6	300.1	247.1	209.3	179.0	153.8	141.2	133.6	133.6
52.5°	14097.7	5002.7	489.2	262.2	214.3	184.1	153.8	133.6	126.1	121.0	118.5
55°	14395.3	4866.5	416.0	226.9	184.1	156.3	136.2	121.0	110.9	105.9	103.4
57°	14569.3	4682.4	360.6	199.2	158.9	136.2	121.0	108.4	98.3	88.3	88.3
57.5°	14576.8	4611.8	345.4	196.7	151.3	131.1	118.5	105.9	93.3	83.2	80.7
60°	14352.4	4127.7	277.4	166.4	121.0	110.9	98.3	83.2	65.6	55.5	53.0
62.5°	13631.3	3512.5	229.5	141.2	98.3	85.7	70.6	63.0	45.4	32.8	32.8
65°	12539.4	2849.3	196.7	113.5	80.7	63.0	47.9	45.4	27.7	15.1	12.6
67.5°	10961.0	2218.9	166.4	93.3	68.1	45.4	32.8	30.3	15.1	5.0	0.0
70°	8351.2	1512.9	138.7	75.6	50.4	32.8	22.7	17.7	10.1	2.5	0.0
72.5°	4813.6	832.1	116.0	58.0	37.8	25.2	17.7	10.1	10.1	0.0	0.0
75°	1719.7	358.1	88.3	42.9	30.3	20.2	12.6	5.0	7.6	2.5	0.0
77.5°	547.2	191.6	58.0	32.8	25.2	15.1	10.1	5.0	5.0	2.5	0.0
80°	161.4	100.9	35.3	27.7	17.7	12.6	7.6	2.5	5.0	2.5	0.0
82.5°	88.3	50.4	27.7	20.2	17.7	10.1	7.6	2.5	2.5	2.5	0.0
85°	45.4	30.3	22.7	20.2	17.7	10.1	7.6	2.5	0.0	2.5	2.5
87.5°	25.2	22.7	22.7	20.2	17.7	12.6	7.6	2.5	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)