

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: P457856

Luminaire Tested: **GALN-SA9B-727-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457856  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-727-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35486 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

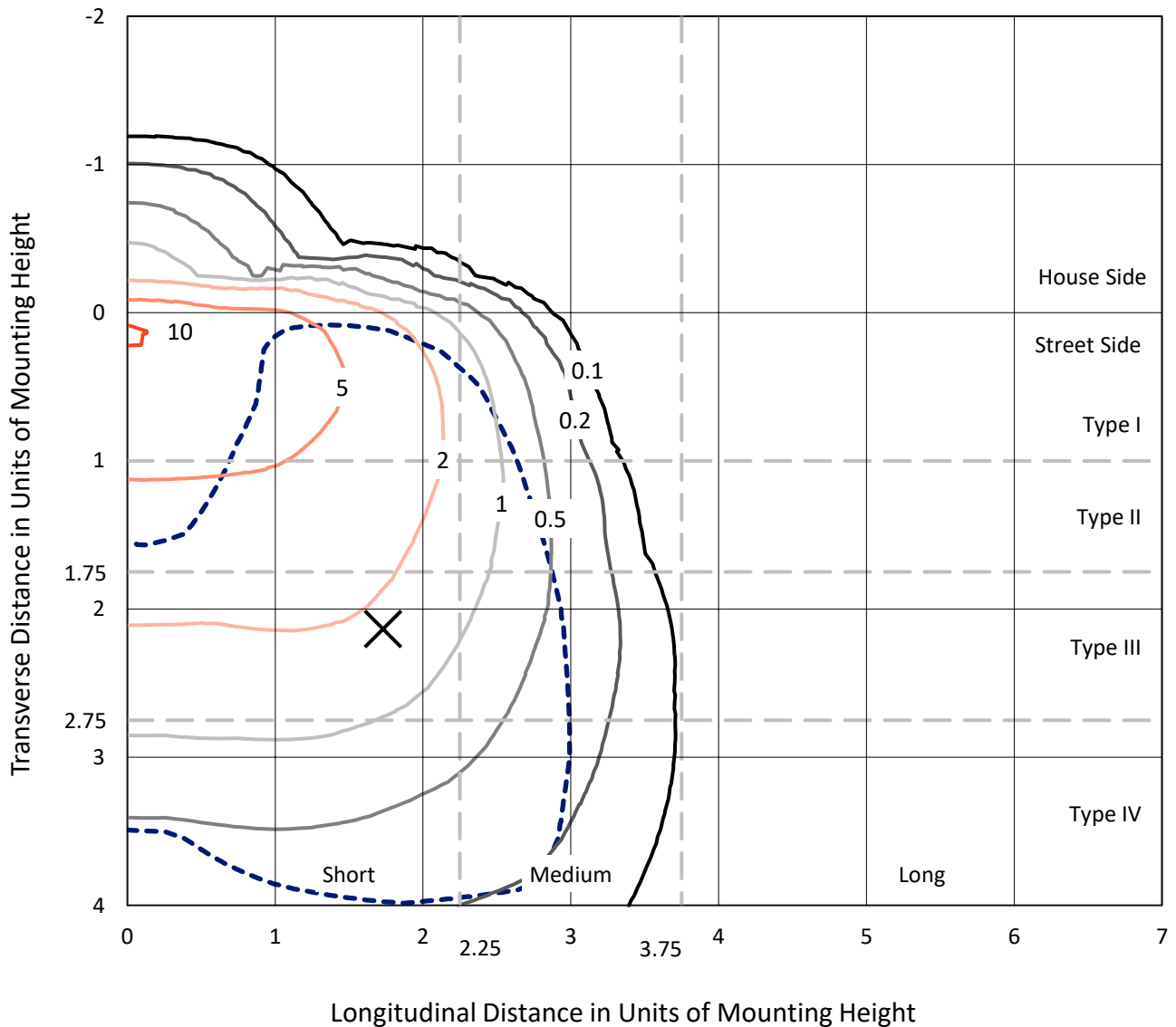
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

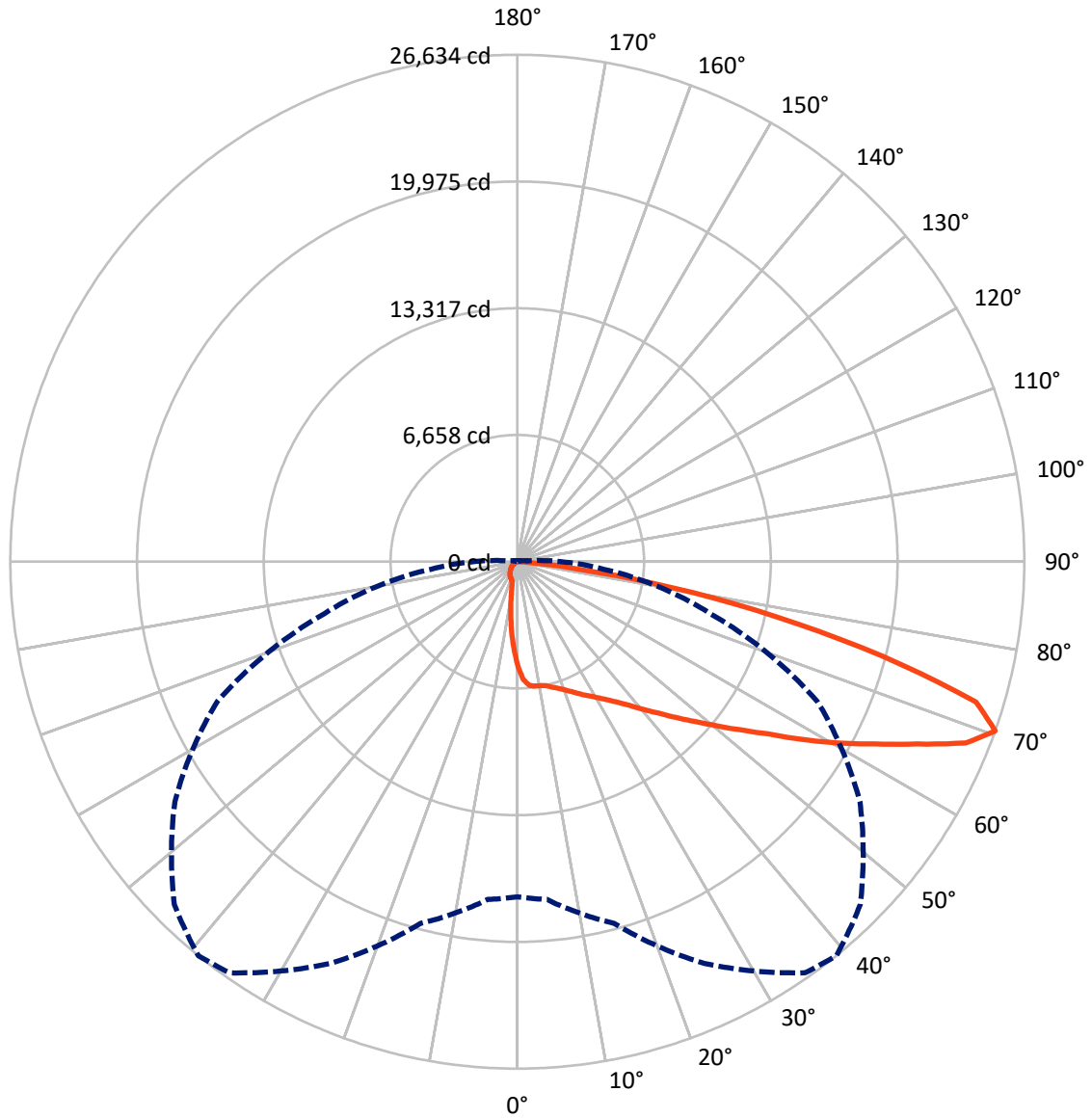
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc  
 Type IV - Short - N/A

REPORT NUMBER: P457856  
CATALOG NUMBER: GALN-SA9B-727-U-SL4-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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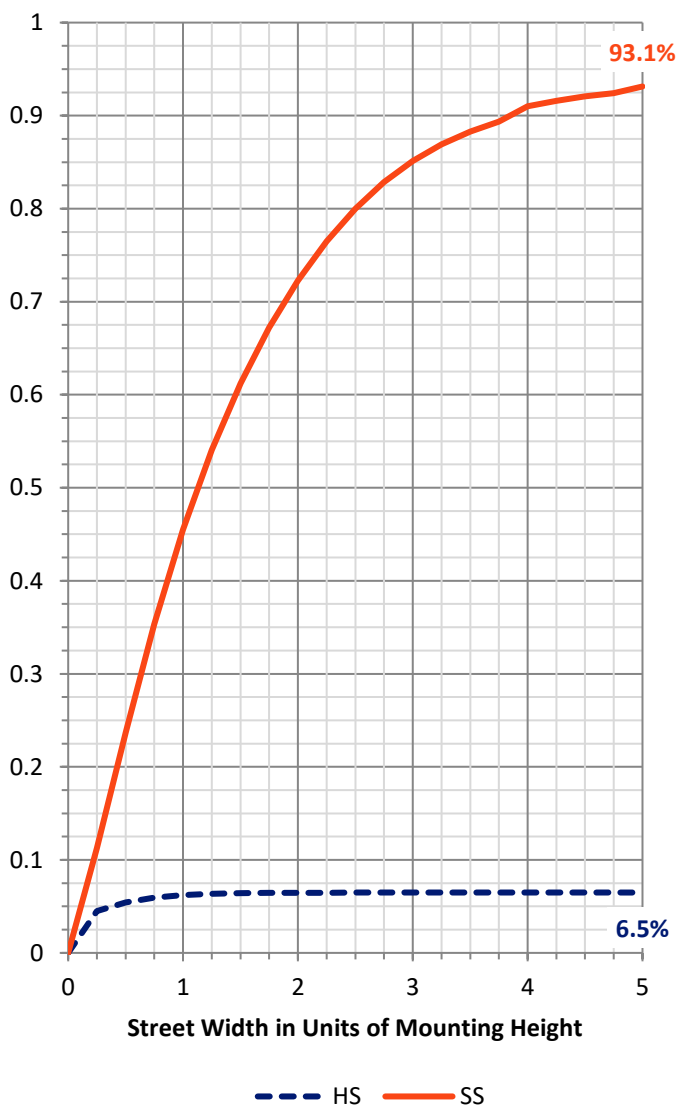
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2313.9	0.0	2313.9
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	33172.1	0.0	33172.1
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	35486.0	0.0	35486.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	472.3	1.3
10°-20°	1227.3	3.5
20°-30°	2056.1	5.8
30°-40°	3188.7	9.0
40°-50°	5053.1	14.2
50°-60°	7407.1	20.9
60°-70°	9494.1	26.8
70°-80°	5965.8	16.8
80°-90°	621.5	1.8
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°	35486.0	100.0
0°-180°	35486.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P457856

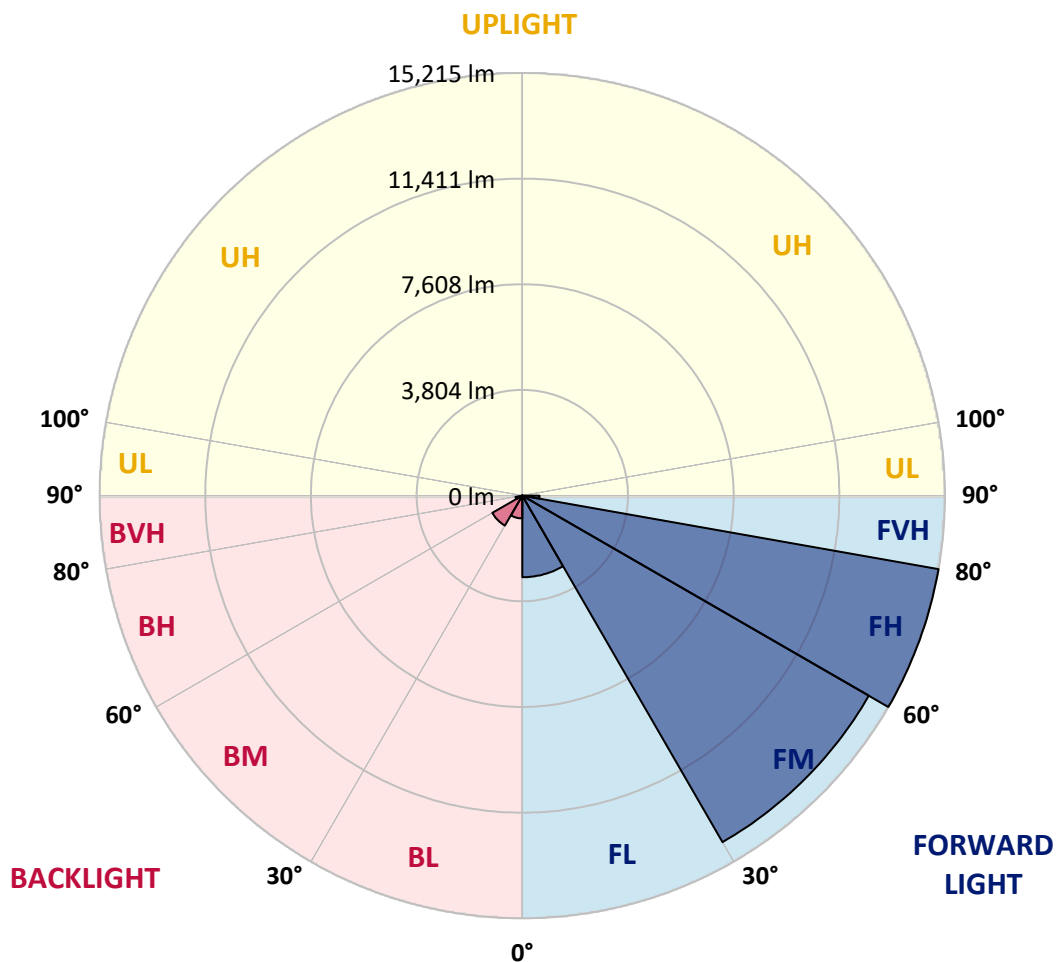
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2936.3	8.3			
FM (30°-60°)	14403.7	40.6			
FH (60°-80°)	15215.2	42.9			G5
FVH (80°-90°)	616.9	1.7			G4/750
BL (0°-30°)	819.3	2.3	B2/1000		
BM (30°-60°)	1245.2	3.5	B2/2500		
BH (60°-80°)	244.7	0.7	B1/500		G1/500
BVH (80°-90°)	4.6	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5537.0	5537.0	5537.0	5537.0	5537.0	5537.0	5537.0	5537.0	5537.0	5537.0	5537.0
2.5°	6397.9	6376.4	6347.8	6314.4	6219.0	6202.3	6145.1	6023.5	5878.0	5758.8	5594.3
5°	6700.7	6712.6	6691.2	6631.6	6562.4	6521.9	6450.3	6262.0	6073.6	5832.7	5563.3
7.5°	6769.9	6793.7	6767.5	6710.3	6643.5	6600.6	6543.3	6381.2	6161.8	5887.6	5518.0
10°	6762.7	6791.3	6774.6	6722.2	6667.3	6626.8	6564.8	6436.0	6259.6	5971.0	5532.3
12.5°	6750.8	6788.9	6786.6	6760.3	6715.0	6684.0	6645.9	6531.4	6366.9	6092.6	5611.0
15°	6717.4	6765.1	6808.0	6829.5	6831.9	6831.9	6784.2	6662.6	6505.2	6252.4	5713.5
17.5°	6731.7	6786.6	6893.9	6955.9	6998.8	6994.0	6943.9	6812.8	6638.7	6416.9	5820.8
20°	6819.9	6893.9	7044.1	7168.1	7211.0	7196.7	7129.9	6977.3	6779.4	6557.6	5925.7
22.5°	7036.9	7103.7	7292.1	7437.6	7468.6	7430.4	7335.0	7127.6	6948.7	6710.3	6052.1
25°	7361.2	7439.9	7614.0	7723.7	7723.7	7702.2	7568.7	7325.5	7139.5	6922.5	6216.6
27.5°	7754.7	7821.5	7993.2	8090.9	8033.7	7971.7	7838.2	7544.9	7366.0	7189.6	6414.6
30°	8152.9	8195.9	8377.1	8420.0	8360.4	8281.7	8138.6	7845.3	7687.9	7552.0	6700.7
32.5°	8529.7	8622.7	8772.9	8763.4	8682.3	8644.2	8513.0	8200.6	8112.4	8098.1	7101.3
35°	8906.5	8978.0	9111.5	9144.9	9073.4	9066.2	8970.9	8739.5	8741.9	8834.9	7726.1
37.5°	9230.8	9295.2	9452.5	9526.5	9540.8	9576.5	9538.4	9385.8	9602.8	9857.9	8553.5
40°	9502.6	9593.2	9793.5	9922.3	10070.2	10201.3	10208.5	10241.8	10678.2	11117.0	9633.8
42.5°	9714.8	9841.2	10132.2	10370.6	10709.2	10876.1	11009.7	11193.3	11927.8	12583.5	10907.1
45°	9991.5	10136.9	10499.4	10873.8	11403.1	11677.4	11863.4	12354.6	13396.7	14290.9	12213.9
47.5°	10449.3	10525.6	10895.2	11441.3	12137.6	12528.7	12891.1	13635.1	14972.9	15774.1	13301.3
50°	11038.3	11088.4	11367.4	12125.7	13027.1	13542.1	14202.7	15077.8	16608.7	17004.6	13916.5
52.5°	11689.3	11706.0	11915.8	12879.2	14023.8	14672.4	15411.6	16491.9	17941.7	17882.1	14324.3
55°	12445.2	12421.4	12600.2	13697.1	15204.2	15945.8	16806.6	17939.3	19098.2	18504.5	14558.0
57.5°	13310.8	13246.4	13420.5	14782.1	16716.0	17603.1	18478.2	19188.8	19994.8	19026.7	14670.0
60°	14217.0	14088.2	14295.7	16000.6	18497.3	19339.1	20066.4	20257.1	20939.1	19441.6	14476.9
62.5°	14939.5	14941.9	15328.2	17297.9	20328.7	21065.5	21451.8	21623.5	21752.3	19351.0	13461.0
65°	16067.4	16105.6	16723.2	19098.2	22448.6	23087.7	23352.4	22794.4	21788.1	18225.5	11934.9
67.5°	17231.1	17352.7	18483.0	21578.2	24897.6	25412.6	25071.6	23020.9	20815.1	15657.3	9049.5
70°	17610.2	17810.6	19672.9	23285.6	26366.5	26633.6	25479.4	21964.5	17400.4	10468.4	4554.6
72.5°	16136.6	16460.9	18988.5	22663.2	25429.3	25198.0	22796.7	18421.0	11062.1	3975.1	1390.2
75°	11379.3	11522.4	15781.3	18800.2	20452.7	19796.9	17340.8	11875.3	4549.8	1116.0	476.9
77.5°	5875.6	5806.5	9385.8	12473.8	14586.6	13907.0	11355.4	6147.5	1724.1	465.0	295.7
80°	3038.0	3088.1	4061.0	6536.2	8904.1	8193.5	6054.5	2849.6	918.1	257.5	226.5
82.5°	1702.6	1597.7	2334.5	2854.4	4163.5	3264.5	2322.6	2017.4	400.6	155.0	214.6
85°	310.0	324.3	1280.5	1542.8	1445.1	918.1	748.8	1347.3	116.8	85.8	150.2
87.5°	4.8	4.8	248.0	443.5	281.4	128.8	236.1	193.2	23.8	33.4	26.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P457856  
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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5537.0	5537.0	5537.0	5537.0	5537.0	5537.0	5537.0	5537.0	5537.0	5537.0	5537.0
2.5°	5510.8	5420.2	5250.9	5084.0	4871.7	4697.7	4580.8	4459.2	4335.2	4344.7	4373.4
5°	5415.4	5258.0	4924.2	4571.3	4232.7	3927.4	3627.0	3357.5	3247.8	3147.7	3152.4
7.5°	5320.0	5098.3	4609.4	4056.2	3543.5	3023.7	2646.9	2336.9	2172.4	2048.4	2012.6
10°	5277.1	4983.8	4320.9	3560.2	2832.9	2265.4	1781.3	1528.5	1333.0	1271.0	1287.7
12.5°	5296.2	4926.6	4061.0	3111.9	2246.3	1578.6	1240.0	1111.2	1068.3	1061.1	1056.4
15°	5332.0	4886.0	3805.8	2615.9	1650.1	1173.2	1042.1	1018.2	1013.5	1008.7	1011.1
17.5°	5379.6	4850.3	3534.0	2150.9	1266.2	1025.4	987.2	975.3	972.9	972.9	972.9
20°	5427.3	4809.7	3231.1	1736.0	1056.4	968.1	944.3	937.1	934.8	934.8	932.4
22.5°	5482.2	4774.0	2923.5	1364.0	972.9	927.6	906.1	901.4	899.0	896.6	896.6
25°	5560.9	4728.7	2596.8	1116.0	920.5	889.5	868.0	863.2	860.8	851.3	853.7
27.5°	5665.8	4695.3	2260.6	963.4	872.8	841.8	827.5	820.3	815.5	808.4	810.8
30°	5808.9	4666.7	1902.9	879.9	817.9	791.7	777.4	772.6	767.8	760.7	760.7
32.5°	6056.9	4678.6	1526.1	813.1	767.8	736.8	722.5	717.8	713.0	705.8	705.8
35°	6428.9	4747.7	1220.9	755.9	708.2	677.2	662.9	662.9	655.8	646.2	643.8
37.5°	7036.9	4924.2	980.1	701.1	651.0	622.4	605.7	600.9	593.8	579.5	577.1
40°	7754.7	5198.4	825.1	646.2	598.5	569.9	555.6	541.3	522.2	507.9	505.5
42.5°	8656.1	5479.8	715.4	591.4	548.5	522.2	505.5	481.7	453.1	434.0	431.6
45°	9595.6	5737.3	641.5	541.3	500.8	479.3	460.2	422.1	386.3	362.5	360.1
47.5°	10296.7	5785.0	581.8	493.6	460.2	438.8	412.5	364.8	317.2	295.7	288.5
50°	10628.1	5553.7	519.8	445.9	419.7	395.8	362.5	307.6	255.2	228.9	224.2
52.5°	10745.0	5153.1	469.8	403.0	379.2	350.5	310.0	248.0	200.3	174.1	171.7
55°	10697.3	4647.6	424.5	362.5	331.5	298.1	257.5	197.9	147.8	126.4	121.6
57.5°	10446.9	4003.7	379.2	321.9	283.8	250.4	205.1	147.8	100.2	81.1	78.7
60°	9772.1	3126.2	333.8	276.6	240.8	205.1	162.2	104.9	62.0	45.3	45.3
62.5°	8632.2	2320.2	290.9	231.3	202.7	164.5	114.5	66.8	33.4	23.8	21.5
65°	7213.4	1712.1	243.2	195.5	169.3	128.8	81.1	40.5	16.7	7.2	4.8
67.5°	5033.9	1056.4	202.7	159.8	138.3	93.0	50.1	16.7	7.2	0.0	0.0
70°	2286.8	503.1	155.0	121.6	104.9	66.8	26.2	9.5	4.8	0.0	0.0
72.5°	710.6	264.7	109.7	88.2	71.5	42.9	14.3	7.2	4.8	0.0	0.0
75°	329.1	169.3	69.2	47.7	40.5	21.5	9.5	4.8	2.4	0.0	0.0
77.5°	245.6	131.2	40.5	26.2	21.5	14.3	7.2	4.8	2.4	0.0	0.0
80°	214.6	66.8	23.8	16.7	11.9	9.5	4.8	2.4	0.0	0.0	0.0
82.5°	193.2	33.4	14.3	9.5	7.2	4.8	2.4	2.4	0.0	0.0	0.0
85°	104.9	19.1	9.5	7.2	4.8	2.4	2.4	0.0	0.0	0.0	0.0
87.5°	19.1	9.5	7.2	4.8	4.8	2.4	2.4	2.4	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)