

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: P455304

Luminaire Tested: **GALN-SA6C-727-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455304  
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-SA6C-727-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 1050mA 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: 28679 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

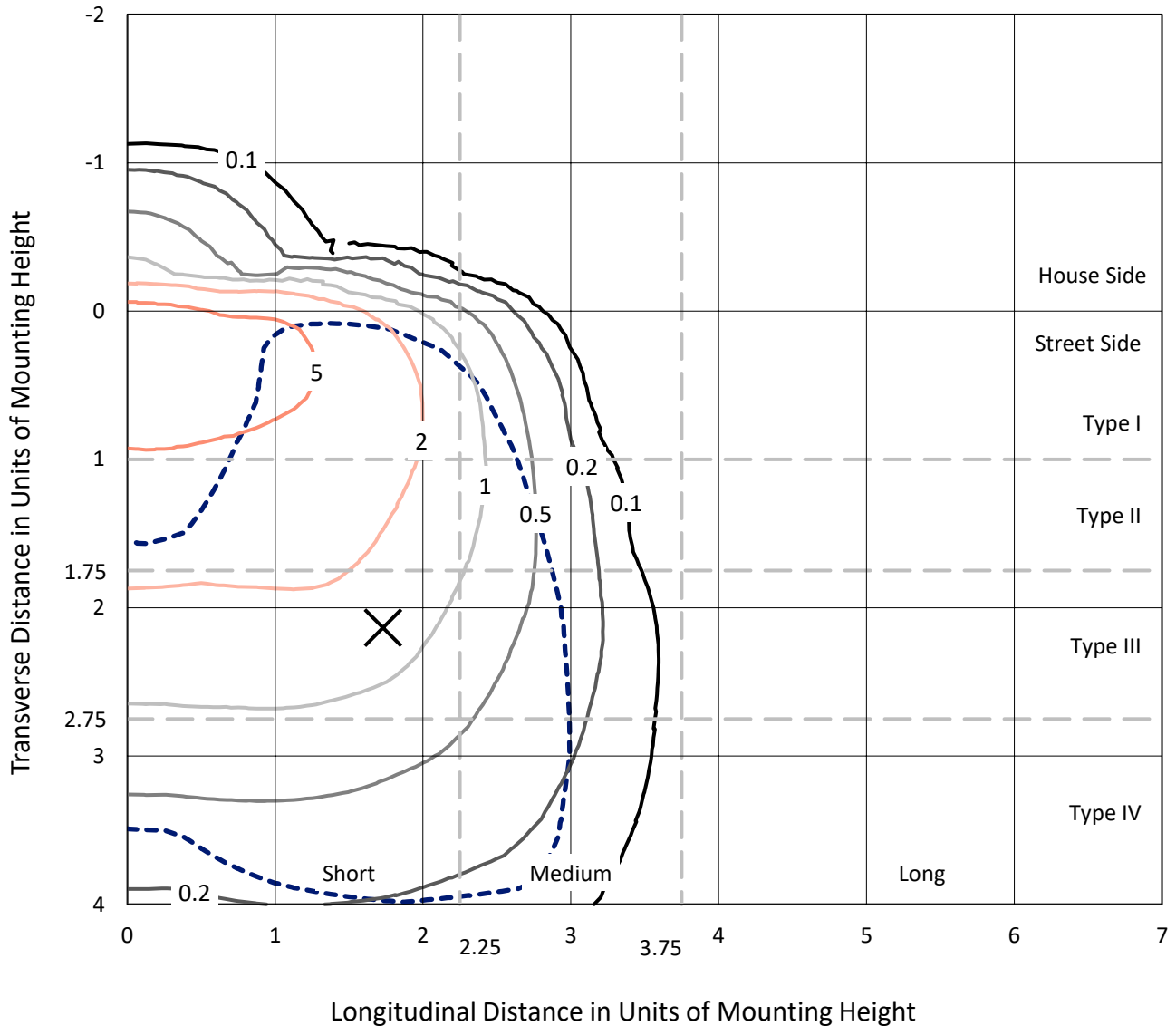
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

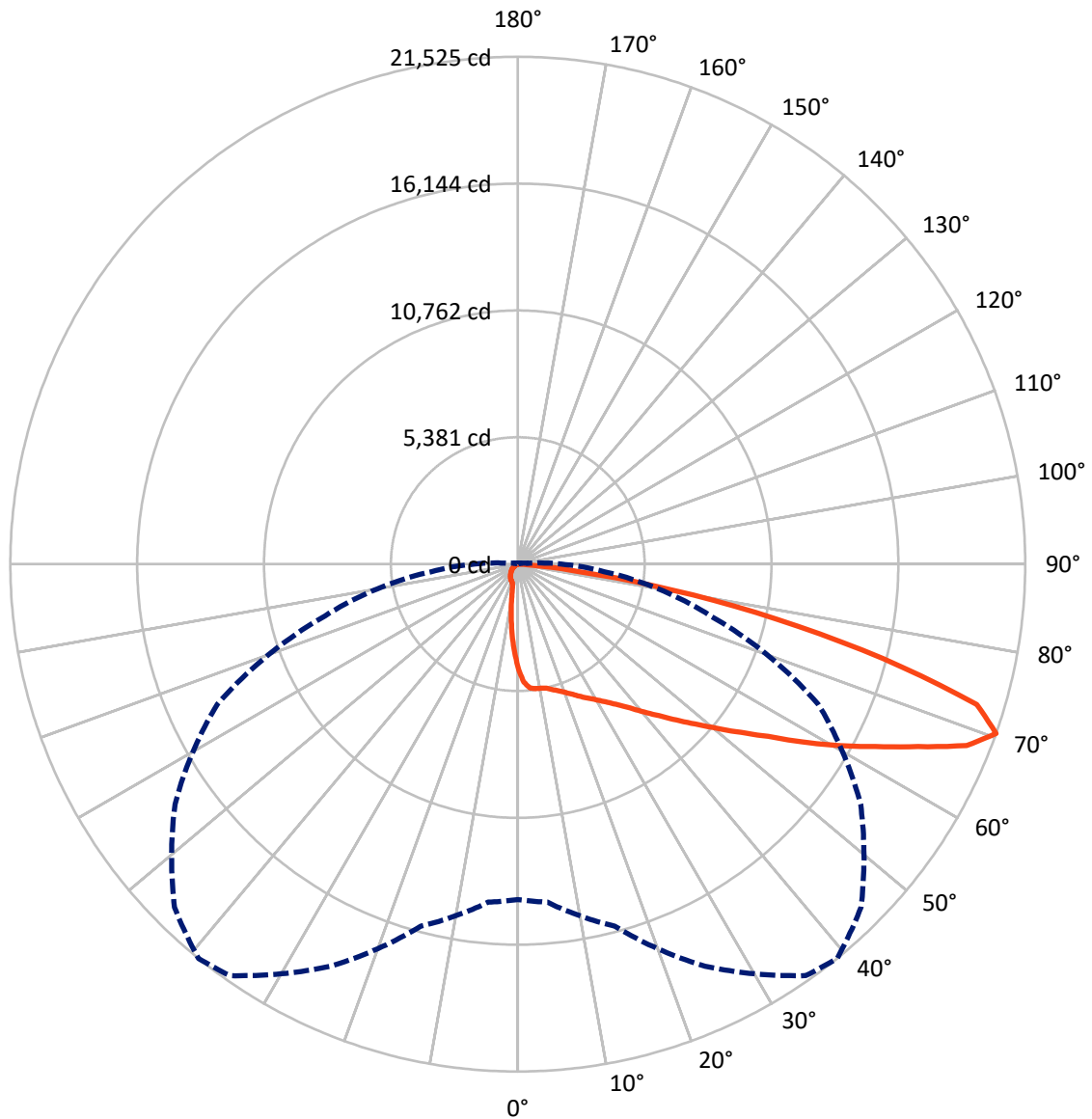
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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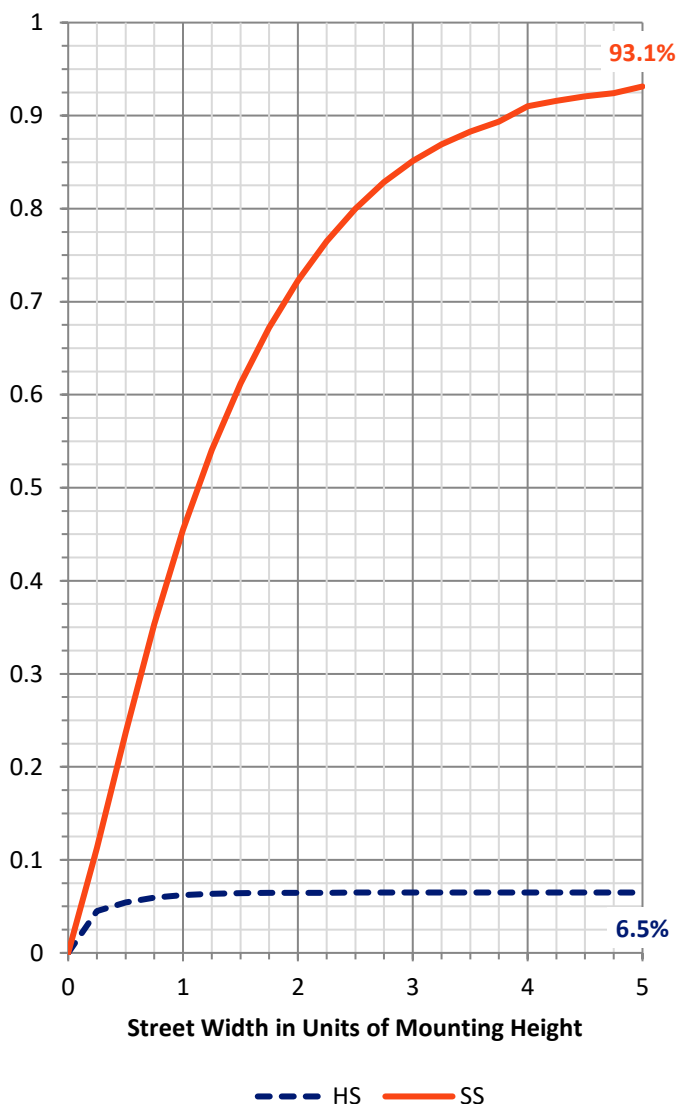
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1870.0	0.0	1870.0
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	26809.0	0.0	26809.0
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	28679.0	0.0	28679.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	381.7	1.3
10°-20°	991.9	3.5
20°-30°	1661.7	5.8
30°-40°	2577.0	9.0
40°-50°	4083.8	14.2
50°-60°	5986.3	20.9
60°-70°	7673.0	26.8
70°-80°	4821.4	16.8
80°-90°	502.3	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°	28679.0	100.0
0°-180°	28679.0	100.0

**Coefficient of Utilization**



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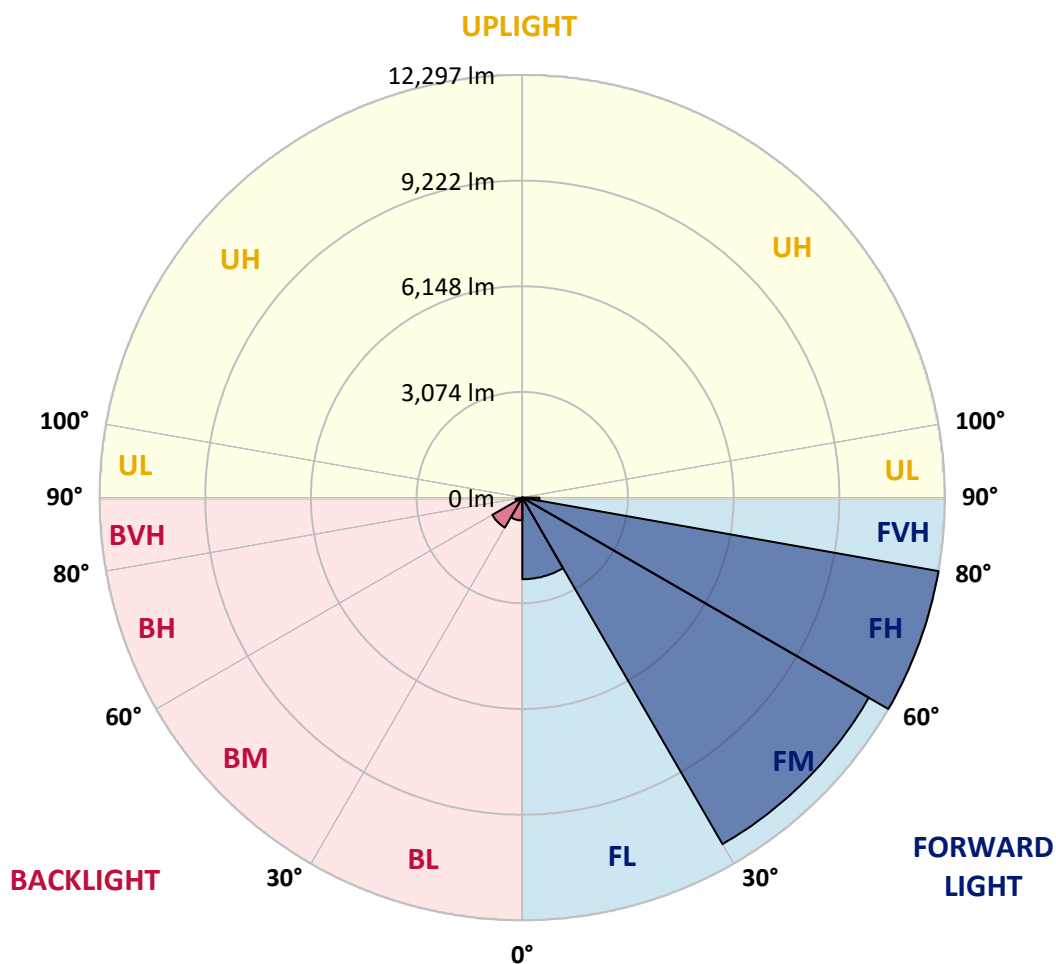
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2373.0	8.3			
FM (30°-60°)	11640.7	40.6			
FH (60°-80°)	12296.6	42.9			G5
FVH (80°-90°)	498.6	1.7			G3/500
BL (0°-30°)	662.2	2.3	B2/1000		
BM (30°-60°)	1006.4	3.5	B2/2500		
BH (60°-80°)	197.8	0.7	B1/500		G1/500
BVH (80°-90°)	3.7	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°	4474.9	4474.9	4474.9	4474.9	4474.9	4474.9	4474.9	4474.9	4474.9	4474.9	4474.9
2.5°	5170.6	5153.3	5130.1	5103.2	5026.1	5012.6	4966.3	4868.1	4750.5	4654.1	4521.2
5°	5415.4	5425.0	5407.7	5359.5	5303.6	5270.8	5213.0	5060.8	4908.5	4713.9	4496.1
7.5°	5471.3	5490.5	5469.3	5423.1	5369.1	5334.4	5288.2	5157.1	4979.8	4758.2	4459.5
10°	5465.5	5488.6	5475.1	5432.7	5388.4	5355.6	5305.5	5201.5	5058.8	4825.7	4471.1
12.5°	5455.8	5486.7	5484.7	5463.6	5426.9	5401.9	5371.0	5278.5	5145.6	4923.9	4534.7
15°	5428.9	5467.4	5502.1	5519.4	5521.4	5521.4	5482.8	5384.5	5257.3	5053.1	4617.5
17.5°	5440.4	5484.7	5571.5	5621.6	5656.3	5652.4	5611.9	5505.9	5365.3	5186.0	4704.2
20°	5511.7	5571.5	5692.9	5793.1	5827.8	5816.2	5762.3	5638.9	5479.0	5299.7	4789.0
22.5°	5687.1	5741.1	5893.3	6010.9	6035.9	6005.1	5928.0	5760.3	5615.8	5423.1	4891.2
25°	5949.2	6012.8	6153.5	6242.1	6242.1	6224.8	6116.9	5920.3	5770.0	5594.6	5024.2
27.5°	6267.2	6321.1	6459.9	6538.9	6492.7	6442.6	6334.6	6097.6	5953.1	5810.4	5184.1
30°	6589.0	6623.7	6770.2	6804.9	6756.7	6693.1	6577.5	6340.4	6213.2	6103.4	5415.4
32.5°	6893.5	6968.7	7090.1	7082.4	7016.9	6986.0	6880.0	6627.6	6556.3	6544.7	5739.1
35°	7198.0	7255.8	7363.7	7390.7	7332.9	7327.1	7250.0	7063.1	7065.0	7140.2	6244.1
37.5°	7460.1	7512.1	7639.3	7699.1	7710.6	7739.5	7708.7	7585.4	7760.7	7967.0	6912.8
40°	7679.8	7753.0	7914.9	8019.0	8138.5	8244.5	8250.2	8277.2	8629.9	8984.5	7785.8
42.5°	7851.3	7953.5	8188.6	8381.3	8655.0	8789.9	8897.8	9046.2	9639.7	10169.7	8814.9
45°	8074.9	8192.4	8485.4	8787.9	9215.8	9437.4	9587.7	9984.7	10826.9	11549.6	9871.0
47.5°	8444.9	8506.6	8805.3	9246.6	9809.3	10125.4	10418.3	11019.6	12100.8	12748.3	10749.8
50°	8920.9	8961.4	9186.9	9799.7	10528.2	10944.4	11478.3	12185.5	13422.8	13742.7	11247.0
52.5°	9447.0	9460.5	9630.1	10408.7	11333.7	11857.9	12455.4	13328.4	14500.1	14451.9	11576.6
55°	10057.9	10038.7	10183.2	11069.7	12287.7	12887.0	13582.8	14498.2	15434.8	14954.9	11765.4
57.5°	10757.5	10705.5	10846.2	11946.6	13509.5	14226.4	14933.7	15508.0	16159.4	15377.0	11856.0
60°	11489.8	11385.8	11553.4	12931.4	14949.1	15629.4	16217.2	16371.4	16922.6	15712.3	11699.9
62.5°	12073.8	12075.7	12387.9	13979.8	16429.2	17024.7	17336.9	17475.7	17579.7	15639.1	10878.9
65°	12985.3	13016.2	13515.3	15434.8	18142.5	18658.9	18872.9	18421.9	17608.6	14729.4	9645.5
67.5°	13925.8	14024.1	14937.6	17439.0	20121.7	20537.9	20262.4	18605.0	16822.3	12653.9	7313.6
70°	14232.2	14394.1	15899.2	18818.9	21308.8	21524.7	20591.9	17751.2	14062.6	8460.3	3680.9
72.5°	13041.2	13303.3	15346.1	18315.9	20551.4	20364.5	18423.8	14887.5	8940.2	3212.6	1123.5
75°	9196.5	9312.1	12754.1	15193.9	16529.4	15999.4	14014.4	9597.3	3677.1	901.9	385.4
77.5°	4748.6	4692.7	7585.4	10081.1	11788.5	11239.3	9177.2	4968.3	1393.3	375.8	239.0
80°	2455.2	2495.7	3282.0	5282.4	7196.1	6621.8	4893.1	2303.0	742.0	208.1	183.1
82.5°	1376.0	1291.2	1886.7	2306.8	3364.9	2638.3	1877.1	1630.4	323.8	125.3	173.4
85°	250.5	262.1	1034.9	1246.9	1167.9	742.0	605.1	1088.9	94.4	69.4	121.4
87.5°	3.9	3.9	200.4	358.5	227.4	104.1	190.8	156.1	19.3	27.0	21.2
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°	4474.9	4474.9	4474.9	4474.9	4474.9	4474.9	4474.9	4474.9	4474.9	4474.9	4474.9
2.5°	4453.7	4380.5	4243.6	4108.7	3937.2	3796.5	3702.1	3603.8	3503.6	3511.3	3534.4
5°	4376.6	4249.4	3979.6	3694.4	3420.7	3174.1	2931.2	2713.5	2624.8	2543.9	2547.7
7.5°	4299.5	4120.3	3725.2	3278.1	2863.8	2443.7	2139.2	1888.6	1755.7	1655.4	1626.5
10°	4264.8	4027.8	3492.0	2877.3	2289.5	1830.8	1439.6	1235.3	1077.3	1027.2	1040.7
12.5°	4280.3	3981.6	3282.0	2515.0	1815.4	1275.8	1002.1	898.1	863.4	857.6	853.7
15°	4309.2	3948.8	3075.8	2114.1	1333.6	948.2	842.2	822.9	819.1	815.2	817.1
17.5°	4347.7	3919.9	2856.1	1738.3	1023.3	828.7	797.9	788.2	786.3	786.3	786.3
20°	4386.3	3887.1	2611.3	1403.0	853.7	782.4	763.2	757.4	755.5	755.5	753.5
22.5°	4430.6	3858.2	2362.7	1102.3	786.3	749.7	732.3	728.5	726.5	724.6	724.6
25°	4494.2	3821.6	2098.7	901.9	743.9	718.8	701.5	697.6	695.7	688.0	689.9
27.5°	4579.0	3794.6	1827.0	778.6	705.3	680.3	668.7	662.9	659.1	653.3	655.2
30°	4694.6	3771.5	1537.9	711.1	661.0	639.8	628.3	624.4	620.6	614.8	614.8
32.5°	4895.0	3781.1	1233.4	657.2	620.6	595.5	583.9	580.1	576.2	570.4	570.4
35°	5195.7	3837.0	986.7	610.9	572.4	547.3	535.8	535.8	530.0	522.3	520.3
37.5°	5687.1	3979.6	792.1	566.6	526.1	503.0	489.5	485.6	479.9	468.3	466.4
40°	6267.2	4201.2	666.8	522.3	483.7	460.6	449.0	437.5	422.1	410.5	408.6
42.5°	6995.7	4428.7	578.2	477.9	443.3	422.1	408.6	389.3	366.2	350.7	348.8
45°	7755.0	4636.8	518.4	437.5	404.7	387.4	371.9	341.1	312.2	292.9	291.0
47.5°	8321.6	4675.3	470.2	398.9	371.9	354.6	333.4	294.9	256.3	239.0	233.2
50°	8589.4	4488.4	420.1	360.4	339.2	319.9	292.9	248.6	206.2	185.0	181.2
52.5°	8683.9	4164.6	379.7	325.7	306.4	283.3	250.5	200.4	161.9	140.7	138.8
55°	8645.3	3756.1	343.0	292.9	267.9	240.9	208.1	160.0	119.5	102.1	98.3
57.5°	8443.0	3235.7	306.4	260.2	229.3	202.4	165.7	119.5	80.9	65.5	63.6
60°	7897.6	2526.5	269.8	223.6	194.6	165.7	131.0	84.8	50.1	36.6	36.6
62.5°	6976.4	1875.1	235.1	186.9	163.8	133.0	92.5	54.0	27.0	19.3	17.3
65°	5829.7	1383.7	196.6	158.0	136.8	104.1	65.5	32.8	13.5	5.8	3.9
67.5°	4068.3	853.7	163.8	129.1	111.8	75.2	40.5	13.5	5.8	0.0	0.0
70°	1848.2	406.6	125.3	98.3	84.8	54.0	21.2	7.7	3.9	0.0	0.0
72.5°	574.3	213.9	88.7	71.3	57.8	34.7	11.6	5.8	3.9	0.0	0.0
75°	266.0	136.8	55.9	38.5	32.8	17.3	7.7	3.9	1.9	0.0	0.0
77.5°	198.5	106.0	32.8	21.2	17.3	11.6	5.8	3.9	1.9	0.0	0.0
80°	173.4	54.0	19.3	13.5	9.6	7.7	3.9	1.9	0.0	0.0	0.0
82.5°	156.1	27.0	11.6	7.7	5.8	3.9	1.9	1.9	0.0	0.0	0.0
85°	84.8	15.4	7.7	5.8	3.9	1.9	1.9	0.0	0.0	0.0	0.0
87.5°	15.4	7.7	5.8	3.9	3.9	1.9	1.9	1.9	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)