

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: P652442

Luminaire Tested: **GALN-SA6B-840-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652442  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-840-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28325.7 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

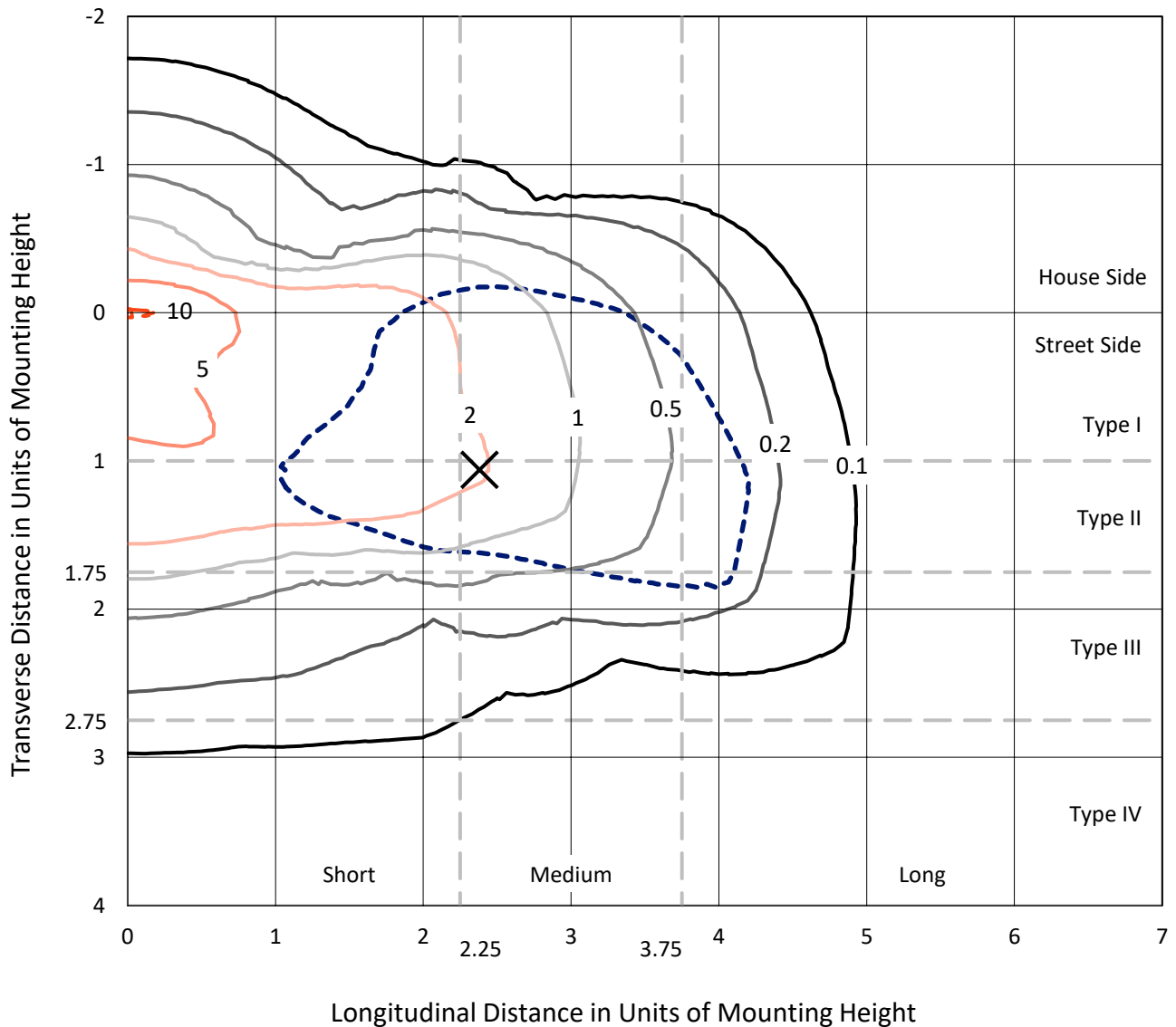
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

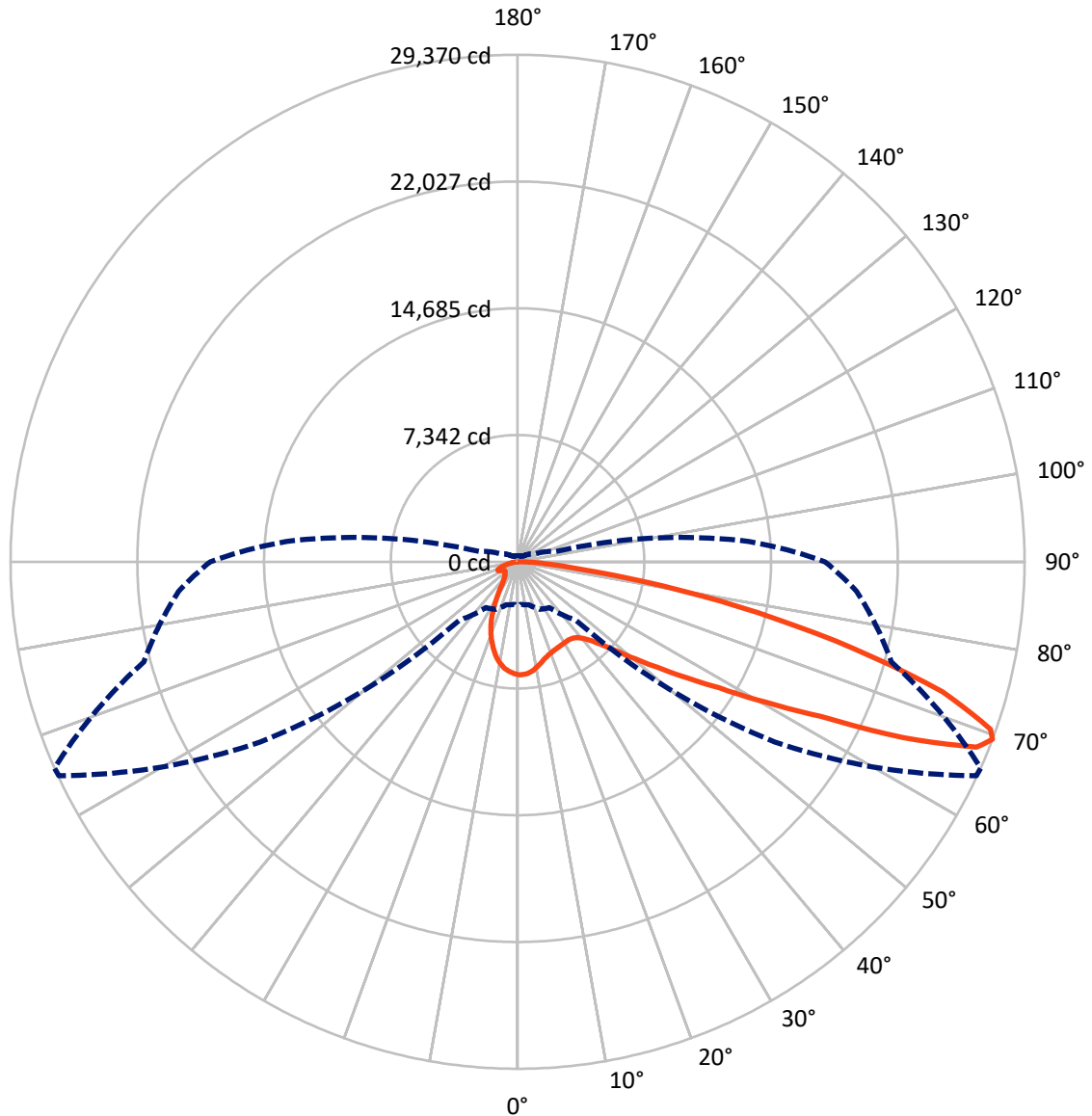
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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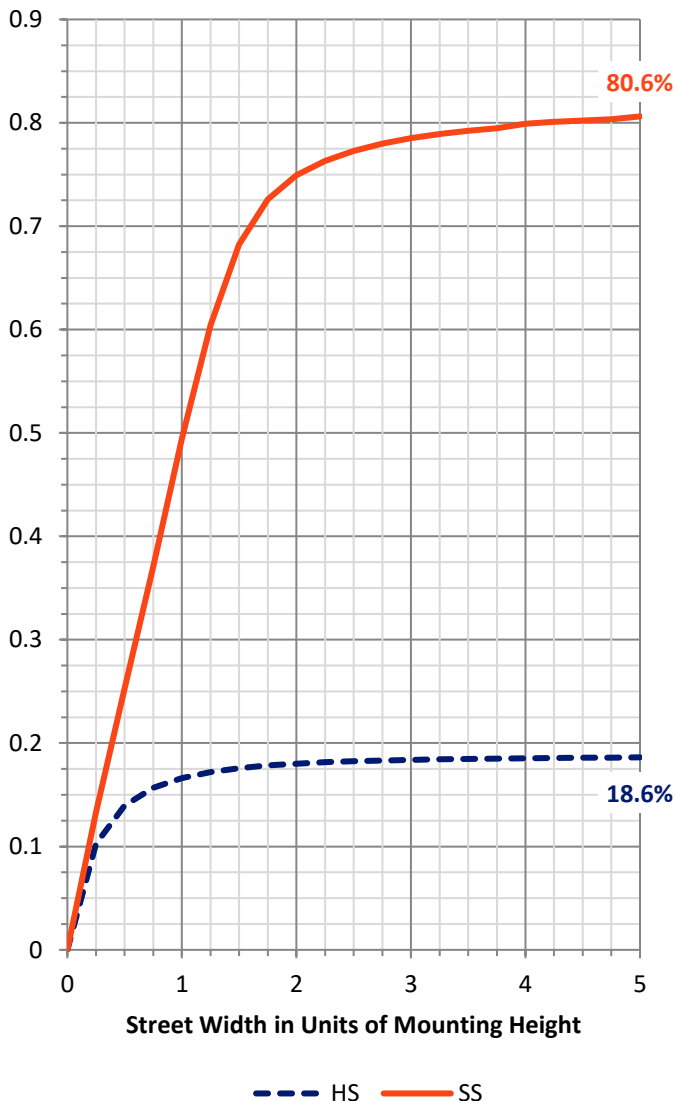
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5327.0	0.0	5327.0
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	22998.7	0.0	22998.7
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	28325.7	0.0	28325.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	568.0	2.0
10°-20°	1347.3	4.8
20°-30°	1834.2	6.5
30°-40°	2464.8	8.7
40°-50°	3680.3	13.0
50°-60°	5854.1	20.7
60°-70°	7200.3	25.4
70°-80°	4684.8	16.5
80°-90°	691.8	2.4
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°	28325.7	100.0
0°-180°	28325.7	100.0

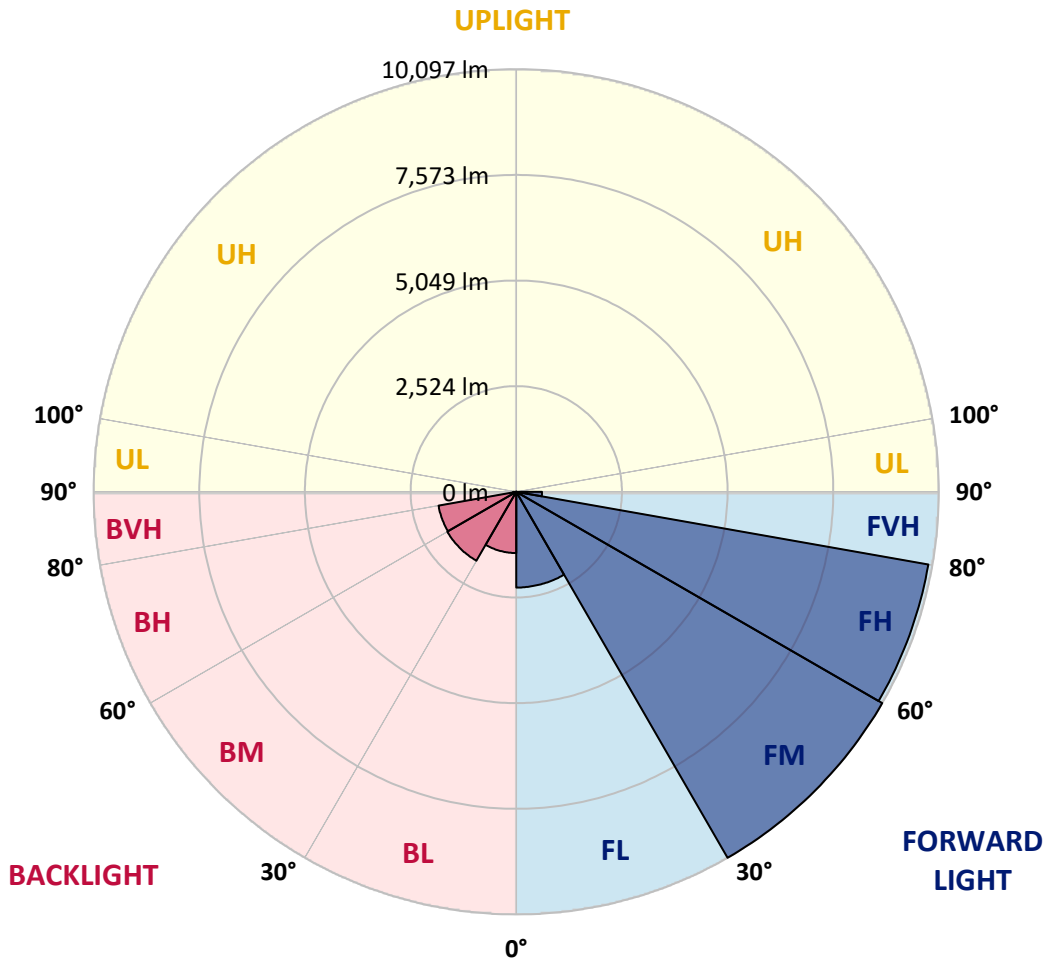


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2287.3	8.1			
FM (30°-60°)	10097.3	35.6			
FH (60°-80°)	9999.1	35.3			G4/12000
FVH (80°-90°)	615.1	2.2			G4/750
BL (0°-30°)	1462.3	5.2	B3/2500		
BM (30°-60°)	1902.0	6.7	B2/2500		
BH (60°-80°)	1886.0	6.7	B3/2500		G3/2500
BVH (80°-90°)	76.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6541.2	6541.2	6541.2	6541.2	6541.2	6541.2	6541.2	6541.2	6541.2	6541.2	6541.2
2.5°	6312.2	6337.3	6365.5	6396.9	6456.5	6489.4	6513.0	6539.6	6542.7	6556.9	6545.9
5°	5846.3	5876.1	5918.5	5978.1	6067.5	6207.1	6351.4	6469.1	6483.2	6549.0	6567.9
7.5°	5457.2	5474.5	5509.1	5604.8	5731.8	5887.1	6097.2	6335.7	6370.2	6527.1	6582.0
10°	5140.4	5157.7	5198.5	5297.3	5422.8	5617.3	5847.9	6161.6	6189.8	6459.6	6585.1
12.5°	4903.5	4919.3	4963.2	5060.4	5204.7	5386.7	5640.8	5973.4	6014.2	6370.2	6555.3
15°	4723.1	4753.0	4789.1	4869.1	5021.2	5196.9	5443.1	5800.8	5833.8	6276.1	6534.9
17.5°	4646.3	4660.4	4685.5	4759.2	4870.6	5043.1	5291.0	5665.9	5705.1	6210.2	6530.2
20°	4649.4	4663.5	4668.2	4709.0	4789.1	4938.0	5182.7	5559.3	5606.3	6152.2	6538.0
22.5°	4756.1	4757.6	4740.4	4726.3	4757.6	4881.6	5105.9	5479.2	5534.1	6127.1	6544.3
25°	4920.8	4949.0	4924.0	4858.0	4800.0	4859.6	5076.1	5435.3	5487.1	6091.0	6536.5
27.5°	5187.5	5192.2	5171.8	5082.3	4931.8	4887.9	5063.6	5402.3	5446.3	6064.4	6497.3
30°	5545.1	5531.0	5512.2	5413.3	5176.5	4996.1	5090.2	5372.6	5418.1	6025.1	6450.2
32.5°	5907.4	5951.4	5934.1	5818.0	5510.6	5206.3	5176.5	5369.4	5407.0	5995.3	6398.4
35°	6291.8	6312.2	6393.8	6334.2	6018.9	5546.6	5338.1	5418.1	5447.8	5996.9	6362.3
37.5°	6592.9	6647.9	6839.3	6891.0	6594.5	5996.9	5600.1	5556.1	5568.7	6073.7	6376.5
40°	6956.9	7051.0	7297.3	7509.0	7314.5	6582.0	6045.5	5811.8	5827.5	6258.8	6469.1
42.5°	7418.0	7484.0	7814.9	8102.0	8070.6	7355.3	6585.1	6230.6	6238.5	6627.5	6727.8
45°	7957.7	8051.8	8423.5	8854.9	8928.6	8230.6	7364.7	6864.3	6859.6	7200.1	7211.0
47.5°	8647.8	8705.9	9074.6	9545.1	9843.1	9330.2	8310.6	7774.1	7723.9	8034.5	7945.1
50°	9283.1	9374.1	9653.3	10167.9	10909.9	10618.0	9554.5	8953.8	8836.1	9126.3	8975.7
52.5°	9549.8	9645.5	9880.8	10519.2	11824.4	12284.0	11134.2	10360.8	10164.7	10387.4	10332.6
55°	9087.1	9211.0	9430.6	10207.0	12226.0	14205.5	13264.3	11987.4	11844.7	11749.0	11764.7
57.5°	7843.2	7960.8	8257.3	9113.7	11745.9	15600.0	16305.9	14078.5	13772.6	13331.8	13407.1
60°	5970.2	6043.9	6197.7	7146.6	10323.2	15962.4	19760.1	16721.6	16527.1	14908.2	14961.6
62.5°	4240.0	4323.2	4429.8	4903.5	7557.6	14941.2	22464.4	20412.6	19717.7	16541.2	16489.5
65°	3443.1	3386.7	3515.3	3736.5	4434.5	11579.6	23073.0	25535.8	24578.9	18691.8	17973.3
67.5°	2831.4	2771.8	2898.8	3292.6	3372.6	6721.6	20880.1	28861.3	28669.9	21030.6	19480.8
69°	2506.7	2475.3	2586.7	3035.3	3237.7	4773.3	18189.8	29324.0	29369.5	22409.5	19713.0
70°	2258.8	2271.4	2379.6	2905.1	3176.5	3935.7	15546.7	28685.6	29071.4	23098.1	19462.0
72.5°	1662.7	1689.4	1840.0	2406.3	3118.4	3339.6	9251.8	25055.7	25738.1	23138.9	17804.0
75°	1162.3	1149.8	1283.1	1811.8	2945.9	3309.8	5433.7	19377.3	20150.6	20000.1	14960.0
77.5°	760.8	781.2	887.8	1280.0	2478.4	3284.7	3542.0	13747.5	14249.5	13375.7	8848.7
80°	536.5	534.9	594.5	873.7	1838.4	3156.1	2900.4	8665.2	8538.1	5256.5	2624.3
82.5°	307.5	329.4	398.5	614.9	1229.8	2778.1	2668.2	4144.4	3783.6	1498.1	886.2
85°	171.0	178.8	236.8	371.8	718.5	2092.6	2329.4	1885.5	1778.8	625.9	381.1
87.5°	54.9	59.6	98.8	188.2	326.3	988.3	1319.2	870.6	803.2	225.9	153.7
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°	6541.2	6541.2	6541.2	6541.2	6541.2	6541.2	6541.2	6541.2	6541.2	6541.2	6541.2
2.5°	6550.6	6569.5	6519.3	6470.6	6426.7	6365.5	6310.6	6265.1	6233.7	6229.0	6213.4
5°	6572.6	6574.1	6478.5	6349.8	6224.3	6086.3	5943.5	5841.6	5745.9	5692.6	5665.9
7.5°	6588.2	6574.1	6401.6	6193.0	5951.4	5700.4	5449.4	5248.7	5093.3	5032.2	5055.7
10°	6582.0	6538.0	6285.5	5951.4	5600.1	5225.1	4864.3	4581.9	4323.2	4189.8	4193.0
12.5°	6547.4	6475.3	6113.0	5680.0	5163.9	4662.0	4109.8	3728.7	3429.0	3251.8	3196.9
15°	6517.7	6392.2	5910.6	5311.4	4669.8	3953.0	3280.0	2809.4	2558.4	2418.8	2417.3
17.5°	6486.3	6312.2	5689.4	4920.8	4102.0	3179.7	2473.7	2114.5	1996.9	2011.0	1987.5
20°	6453.3	6218.0	5458.8	4486.3	3410.2	2371.8	1852.6	1706.6	1739.6	1803.9	1813.4
22.5°	6415.7	6117.7	5211.0	4007.9	2682.4	1785.1	1502.8	1480.7	1565.5	1665.9	1680.0
25°	6357.7	5992.2	4898.8	3507.5	2069.0	1438.4	1316.1	1331.8	1414.9	1499.6	1509.0
27.5°	6276.1	5836.9	4583.5	2883.1	1554.5	1234.5	1203.1	1223.6	1264.4	1316.1	1328.6
30°	6166.3	5661.2	4221.1	2343.5	1245.5	1132.6	1120.0	1131.0	1154.5	1176.5	1182.8
32.5°	6056.5	5491.8	3855.7	1794.5	1110.6	1065.1	1052.5	1052.5	1052.5	1055.7	1057.2
35°	5954.5	5331.8	3463.6	1397.7	1040.0	1011.8	994.5	975.7	972.5	961.6	961.6
37.5°	5898.0	5185.9	3046.3	1170.2	988.3	967.8	944.3	912.9	895.7	897.3	894.2
40°	5909.0	5090.2	2666.6	1041.6	945.9	923.9	887.8	851.8	840.7	840.7	837.6
42.5°	6033.0	5058.9	2302.7	974.1	905.1	880.0	834.5	801.6	795.3	793.7	796.8
45°	6318.4	5135.7	1976.5	930.2	870.6	832.9	787.4	757.7	751.3	751.3	749.8
47.5°	6875.3	5385.1	1742.7	902.0	845.5	796.8	749.8	720.0	709.0	705.9	705.9
50°	7741.2	5926.3	1568.6	876.8	814.1	764.0	715.3	680.8	663.5	662.0	660.4
52.5°	8944.4	6770.2	1501.2	858.1	779.6	729.4	676.1	643.1	621.2	616.5	613.3
55°	10351.4	7948.3	1593.7	843.9	743.5	690.2	635.3	600.8	580.4	571.0	569.4
57.5°	11981.2	9363.2	1945.1	825.1	710.6	647.8	594.5	560.0	538.1	527.1	523.9
60°	13444.7	10817.3	2558.4	814.1	682.4	602.3	547.5	516.1	495.7	484.7	483.2
62.5°	15052.6	12203.9	3291.0	843.9	669.8	558.4	503.5	475.3	458.0	447.1	447.1
65°	16770.2	13592.2	3775.7	944.3	688.6	523.9	456.5	432.9	417.2	409.4	407.9
67.5°	17927.9	14072.2	3110.6	1047.9	735.7	486.3	411.0	392.2	382.7	374.9	374.9
69°	17802.4	13465.2	2294.9	1074.5	749.8	467.4	385.9	371.8	359.2	356.1	353.0
70°	17405.5	12773.4	1923.1	1057.2	738.8	450.2	370.2	353.0	342.0	338.8	337.2
72.5°	15502.8	11077.7	1432.1	919.2	629.0	390.6	327.8	312.2	302.8	298.1	298.1
75°	12880.0	9054.1	1118.4	731.0	492.6	329.4	280.8	268.2	260.4	257.3	255.7
77.5°	7218.8	5055.7	803.2	572.6	373.3	266.7	235.3	224.3	216.5	213.4	213.4
80°	2011.0	1444.7	472.1	378.0	254.2	202.3	186.7	178.8	167.9	160.0	164.7
82.5°	757.7	625.9	269.8	227.5	161.6	134.9	130.2	124.0	119.3	108.2	108.2
85°	368.6	304.3	172.6	120.8	89.4	70.6	67.4	64.3	61.1	53.3	54.9
87.5°	127.1	134.9	75.3	43.9	26.7	17.2	14.1	7.8	7.8	7.8	7.8
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)