

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: P453535

Luminaire Tested: **GALN-SA4C-750-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453535  
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-SA4C-750-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 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: 22877 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

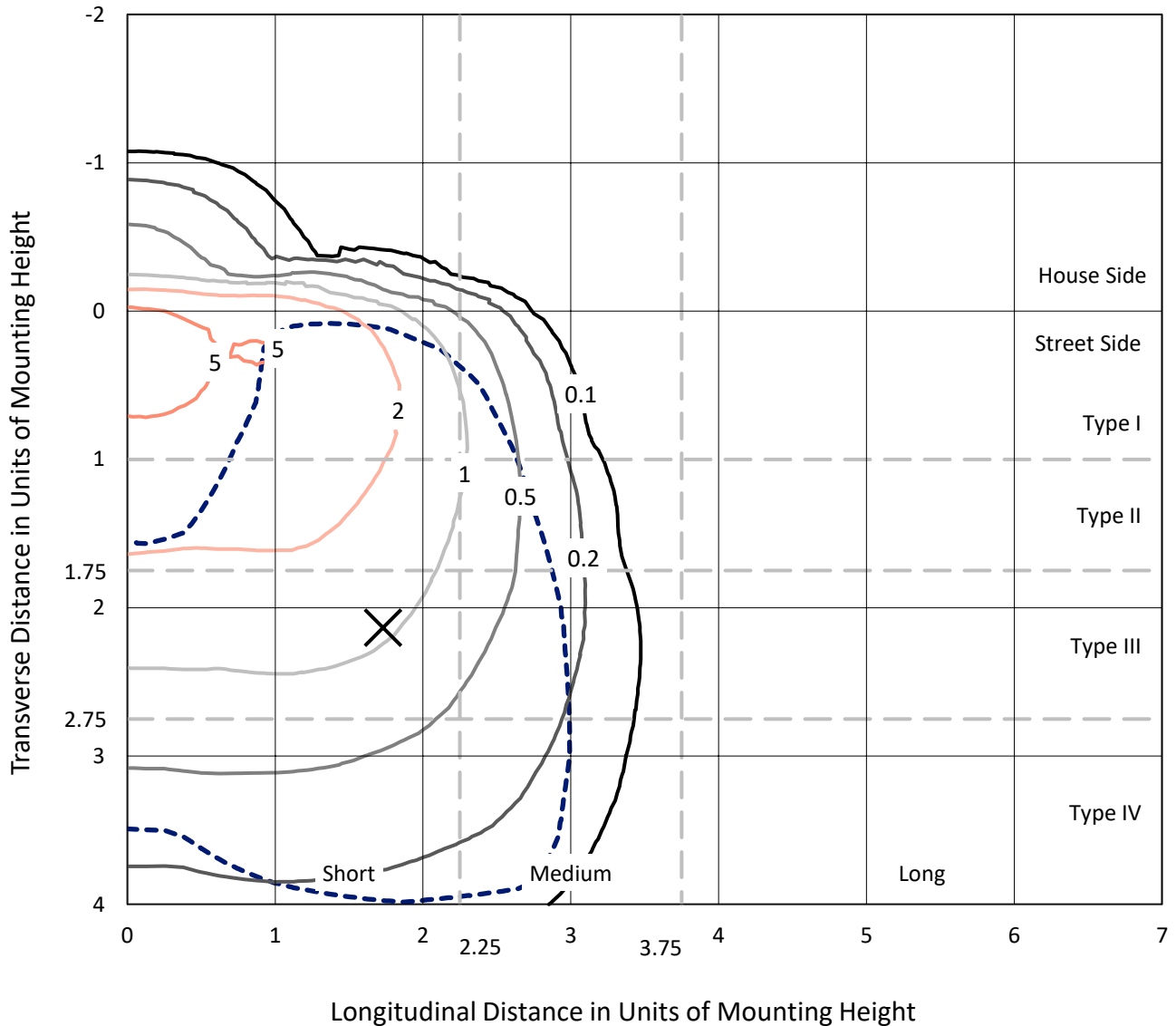
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

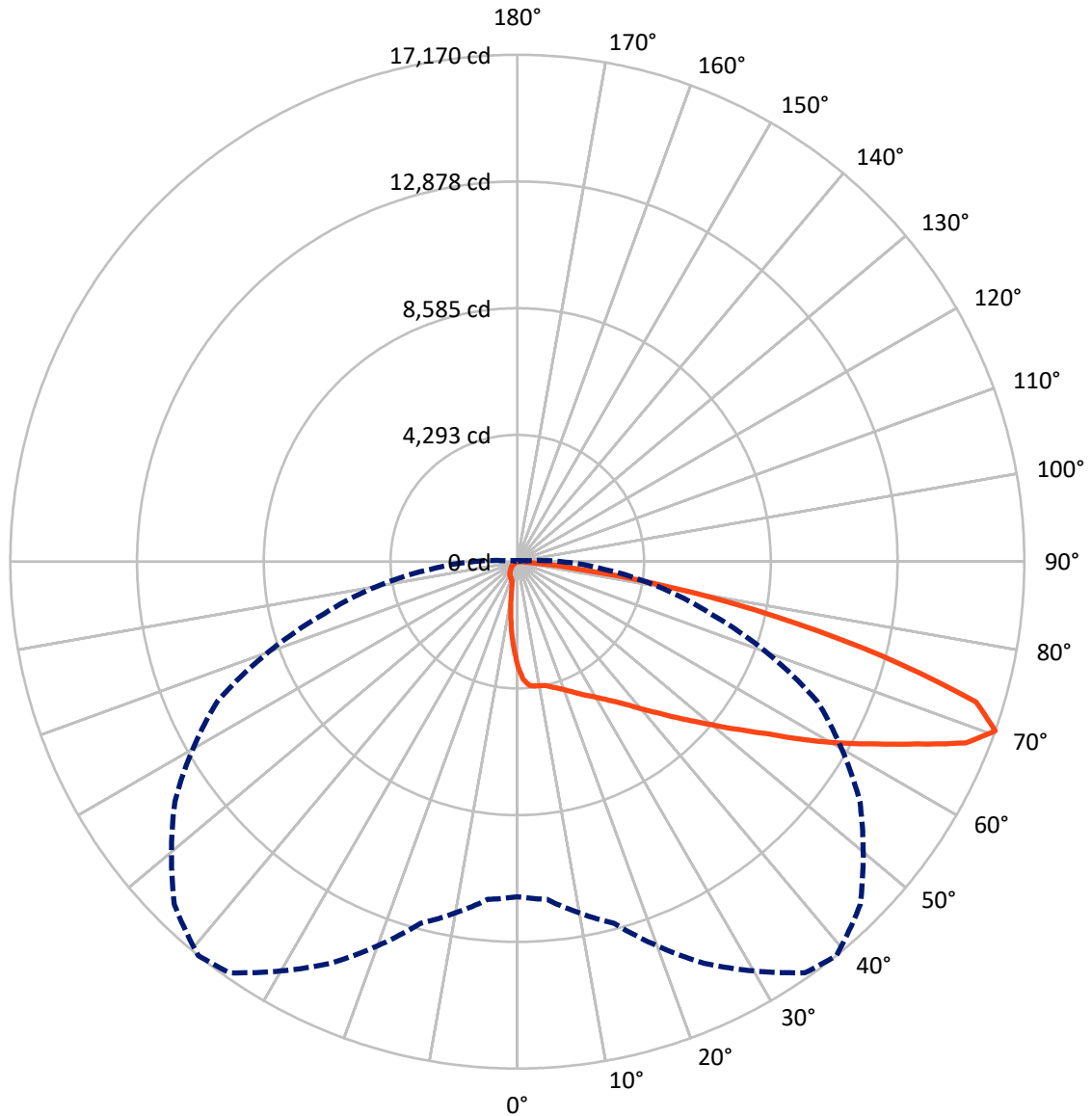
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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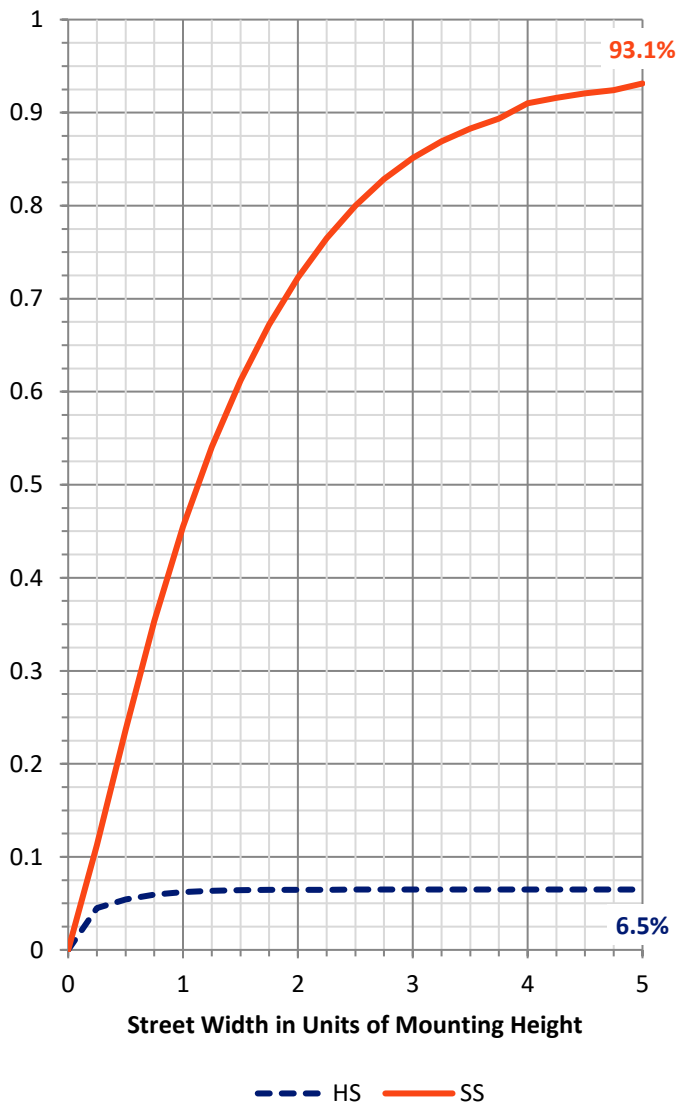
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1491.7	0.0	1491.7
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	21385.3	0.0	21385.3
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	22877.0	0.0	22877.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.5	1.3
10°-20°	791.2	3.5
20°-30°	1325.5	5.8
30°-40°	2055.7	9.0
40°-50°	3257.6	14.2
50°-60°	4775.2	20.9
60°-70°	6120.6	26.8
70°-80°	3846.0	16.8
80°-90°	400.7	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°	22877.0	100.0
0°-180°	22877.0	100.0



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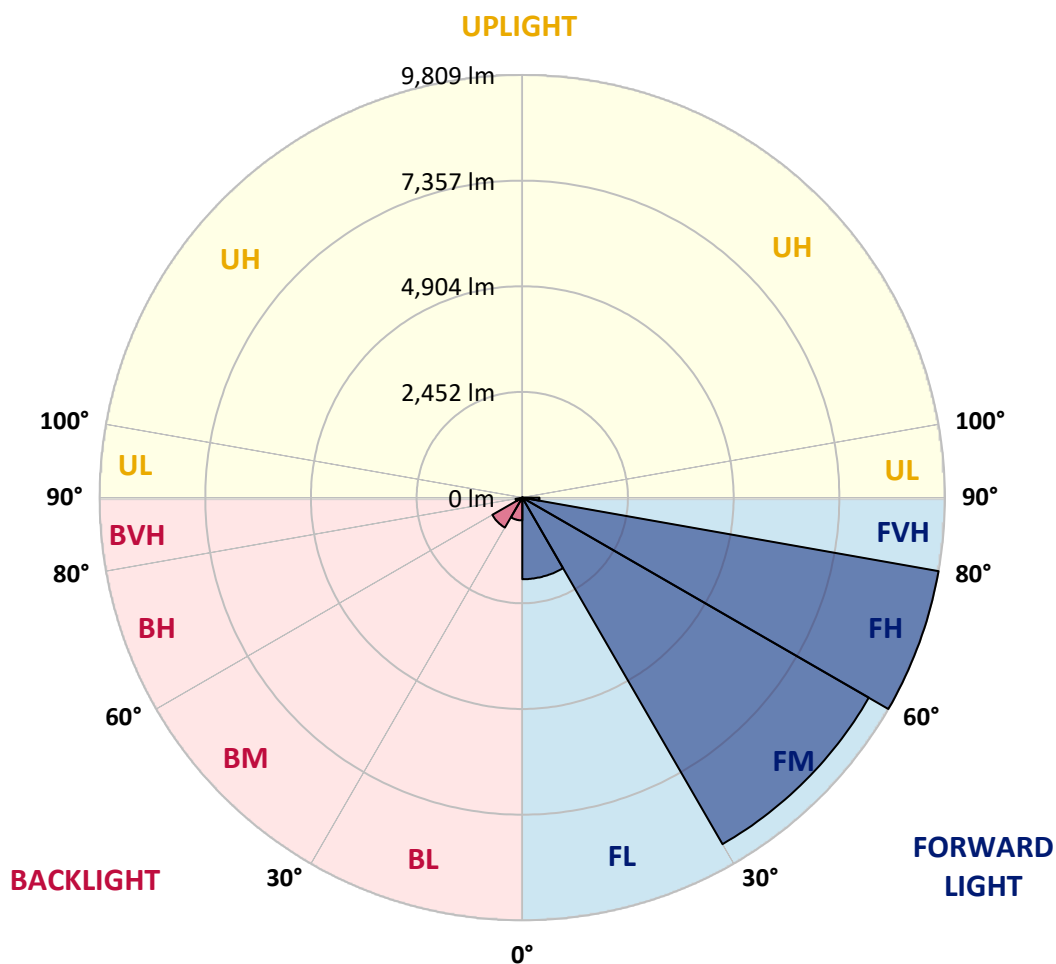
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1893.0	8.3			
FM	(30°-60°)	9285.7	40.6			
FH	(60°-80°)	9808.9	42.9			G4/12000
FVH	(80°-90°)	397.7	1.7			G3/500
BL	(0°-30°)	528.2	2.3	B2/1000		
BM	(30°-60°)	802.8	3.5	B1/1000		
BH	(60°-80°)	157.8	0.7	B1/500		G1/500
BVH	(80°-90°)	2.9	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3569.6	3569.6	3569.6	3569.6	3569.6	3569.6	3569.6	3569.6	3569.6	3569.6	3569.6
2.5°	4124.6	4110.7	4092.3	4070.8	4009.3	3998.5	3961.6	3883.2	3789.4	3712.6	3606.5
5°	4319.8	4327.5	4313.6	4275.2	4230.6	4204.5	4158.4	4036.9	3915.5	3760.2	3586.5
7.5°	4364.4	4379.8	4362.8	4325.9	4282.9	4255.2	4218.3	4113.8	3972.4	3795.6	3557.3
10°	4359.8	4378.2	4367.5	4333.6	4298.3	4272.1	4232.2	4149.2	4035.4	3849.4	3566.5
12.5°	4352.1	4376.7	4375.1	4358.2	4329.0	4309.0	4284.4	4210.6	4104.6	3927.8	3617.3
15°	4330.6	4361.3	4389.0	4402.8	4404.3	4404.3	4373.6	4295.2	4193.7	4030.8	3683.4
17.5°	4339.8	4375.1	4444.3	4484.3	4512.0	4508.9	4476.6	4392.0	4279.8	4136.9	3752.5
20°	4396.7	4444.3	4541.2	4621.1	4648.8	4639.6	4596.5	4498.1	4370.5	4227.6	3820.2
22.5°	4536.6	4579.6	4701.0	4794.8	4814.8	4790.2	4728.7	4595.0	4479.7	4325.9	3901.7
25°	4745.6	4796.4	4908.6	4979.3	4979.3	4965.5	4879.4	4722.6	4602.7	4462.8	4007.7
27.5°	4999.3	5042.3	5153.0	5216.0	5179.1	5139.2	5053.1	4864.0	4748.7	4634.9	4135.3
30°	5256.0	5283.7	5400.5	5428.2	5389.8	5339.0	5246.8	5057.7	4956.2	4868.6	4319.8
32.5°	5498.9	5558.9	5655.7	5649.6	5597.3	5572.7	5488.1	5286.8	5229.9	5220.7	4578.1
35°	5741.8	5787.9	5874.0	5895.5	5849.4	5844.8	5783.3	5634.2	5635.7	5695.7	4980.8
37.5°	5950.9	5992.4	6093.8	6141.5	6150.7	6173.8	6149.2	6050.8	6190.7	6355.2	5514.3
40°	6126.1	6184.5	6313.7	6396.7	6492.0	6576.5	6581.2	6602.7	6884.0	7166.9	6210.7
42.5°	6262.9	6344.4	6532.0	6685.7	6904.0	7011.6	7097.7	7216.1	7689.5	8112.3	7031.6
45°	6441.3	6535.0	6768.7	7010.1	7351.3	7528.1	7648.0	7964.7	8636.5	9213.0	7874.0
47.5°	6736.4	6785.6	7023.9	7375.9	7824.8	8076.9	8310.6	8790.2	9652.7	10169.2	8575.0
50°	7116.1	7148.4	7328.3	7817.1	8398.2	8730.3	9156.1	9720.3	10707.3	10962.4	8971.6
52.5°	7535.8	7546.6	7681.9	8302.9	9040.8	9459.0	9935.5	10631.9	11566.6	11528.2	9234.5
55°	8023.1	8007.8	8123.1	8830.2	9801.8	10279.9	10834.8	11565.1	12312.2	11929.4	9385.2
57.5°	8581.2	8539.7	8651.9	9529.7	10776.4	11348.3	11912.5	12370.6	12890.2	12266.1	9457.4
60°	9165.3	9082.3	9216.1	10315.2	11924.8	12467.5	12936.3	13059.3	13499.0	12533.6	9332.9
62.5°	9631.1	9632.7	9881.7	11151.5	13105.4	13580.5	13829.5	13940.2	14023.2	12475.1	8678.0
65°	10358.3	10382.9	10781.0	12312.2	14472.1	14884.1	15054.7	14695.0	14046.3	11749.5	7694.2
67.5°	11108.5	11186.9	11915.6	13911.0	16050.9	16382.9	16163.1	14841.0	13419.0	10093.9	5834.0
70°	11352.9	11482.0	12682.7	15011.7	16997.9	17170.0	16426.0	14160.0	11217.6	6748.7	2936.2
72.5°	10402.9	10611.9	12241.5	14610.4	16393.7	16244.6	14696.5	11875.6	7131.5	2562.7	896.2
75°	7336.0	7428.2	10173.8	12120.0	13185.4	12762.6	11179.2	7655.7	2933.2	719.5	307.5
77.5°	3787.9	3743.3	6050.8	8041.6	9403.6	8965.5	7320.6	3963.1	1111.5	299.8	190.6
80°	1958.5	1990.8	2618.0	4213.7	5740.3	5282.1	3903.2	1837.1	591.9	166.0	146.0
82.5°	1097.6	1030.0	1505.0	1840.1	2684.1	2104.6	1497.3	1300.6	258.3	99.9	138.4
85°	199.8	209.1	825.5	994.6	931.6	591.9	482.7	868.6	75.3	55.3	96.8
87.5°	3.1	3.1	159.9	285.9	181.4	83.0	152.2	124.5	15.4	21.5	16.9
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°	3569.6	3569.6	3569.6	3569.6	3569.6	3569.6	3569.6	3569.6	3569.6	3569.6	3569.6
2.5°	3552.7	3494.3	3385.1	3277.5	3140.7	3028.5	2953.1	2874.7	2794.8	2800.9	2819.4
5°	3491.2	3389.7	3174.5	2947.0	2728.7	2531.9	2338.2	2164.5	2093.8	2029.2	2032.3
7.5°	3429.7	3286.7	2971.6	2614.9	2284.4	1949.3	1706.4	1506.5	1400.5	1320.5	1297.5
10°	3402.0	3212.9	2785.6	2295.2	1826.3	1460.4	1148.4	985.4	859.3	819.4	830.1
12.5°	3414.3	3176.0	2618.0	2006.2	1448.1	1017.7	799.4	716.4	688.7	684.1	681.0
15°	3437.4	3149.9	2453.5	1686.4	1063.8	756.3	671.8	656.4	653.3	650.3	651.8
17.5°	3468.1	3126.9	2278.3	1386.6	816.3	661.0	636.4	628.8	627.2	627.2	627.2
20°	3498.9	3100.7	2083.0	1119.2	681.0	624.1	608.8	604.2	602.6	602.6	601.1
22.5°	3534.2	3077.7	1884.7	879.3	627.2	598.0	584.2	581.1	579.6	578.0	578.0
25°	3585.0	3048.5	1674.1	719.5	593.4	573.4	559.6	556.5	555.0	548.8	550.4
27.5°	3652.6	3026.9	1457.4	621.1	562.6	542.7	533.4	528.8	525.8	521.1	522.7
30°	3744.8	3008.5	1226.8	567.3	527.3	510.4	501.2	498.1	495.0	490.4	490.4
32.5°	3904.7	3016.2	983.9	524.2	495.0	475.0	465.8	462.7	459.7	455.0	455.0
35°	4144.5	3060.8	787.1	487.3	456.6	436.6	427.4	427.4	422.8	416.6	415.1
37.5°	4536.6	3174.5	631.8	452.0	419.7	401.2	390.5	387.4	382.8	373.6	372.0
40°	4999.3	3351.3	531.9	416.6	385.9	367.4	358.2	349.0	336.7	327.4	325.9
42.5°	5580.4	3532.7	461.2	381.2	353.6	336.7	325.9	310.5	292.1	279.8	278.3
45°	6186.1	3698.7	413.5	349.0	322.8	309.0	296.7	272.1	249.0	233.7	232.1
47.5°	6638.0	3729.5	375.1	318.2	296.7	282.9	266.0	235.2	204.5	190.6	186.0
50°	6851.7	3580.4	335.1	287.5	270.6	255.2	233.7	198.3	164.5	147.6	144.5
52.5°	6927.0	3322.1	302.8	259.8	244.4	226.0	199.8	159.9	129.1	112.2	110.7
55°	6896.3	2996.2	273.6	233.7	213.7	192.2	166.0	127.6	95.3	81.5	78.4
57.5°	6734.9	2581.1	244.4	207.5	182.9	161.4	132.2	95.3	64.6	52.3	50.7
60°	6299.8	2015.4	215.2	178.3	155.3	132.2	104.5	67.6	40.0	29.2	29.2
62.5°	5565.0	1495.8	187.5	149.1	130.7	106.1	73.8	43.0	21.5	15.4	13.8
65°	4650.3	1103.8	156.8	126.1	109.1	83.0	52.3	26.1	10.8	4.6	3.1
67.5°	3245.2	681.0	130.7	103.0	89.2	60.0	32.3	10.8	4.6	0.0	0.0
70°	1474.3	324.4	99.9	78.4	67.6	43.0	16.9	6.1	3.1	0.0	0.0
72.5°	458.1	170.6	70.7	56.9	46.1	27.7	9.2	4.6	3.1	0.0	0.0
75°	212.1	109.1	44.6	30.7	26.1	13.8	6.1	3.1	1.5	0.0	0.0
77.5°	158.3	84.6	26.1	16.9	13.8	9.2	4.6	3.1	1.5	0.0	0.0
80°	138.4	43.0	15.4	10.8	7.7	6.1	3.1	1.5	0.0	0.0	0.0
82.5°	124.5	21.5	9.2	6.1	4.6	3.1	1.5	1.5	0.0	0.0	0.0
85°	67.6	12.3	6.1	4.6	3.1	1.5	1.5	0.0	0.0	0.0	0.0
87.5°	12.3	6.1	4.6	3.1	3.1	1.5	1.5	1.5	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)