

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: P456029

Luminaire Tested: **GALN-SA7B-730-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456029  
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-SA7B-730-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 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: 29690 lumens  
Efficiency: N/A  
Efficacy: 103.8 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

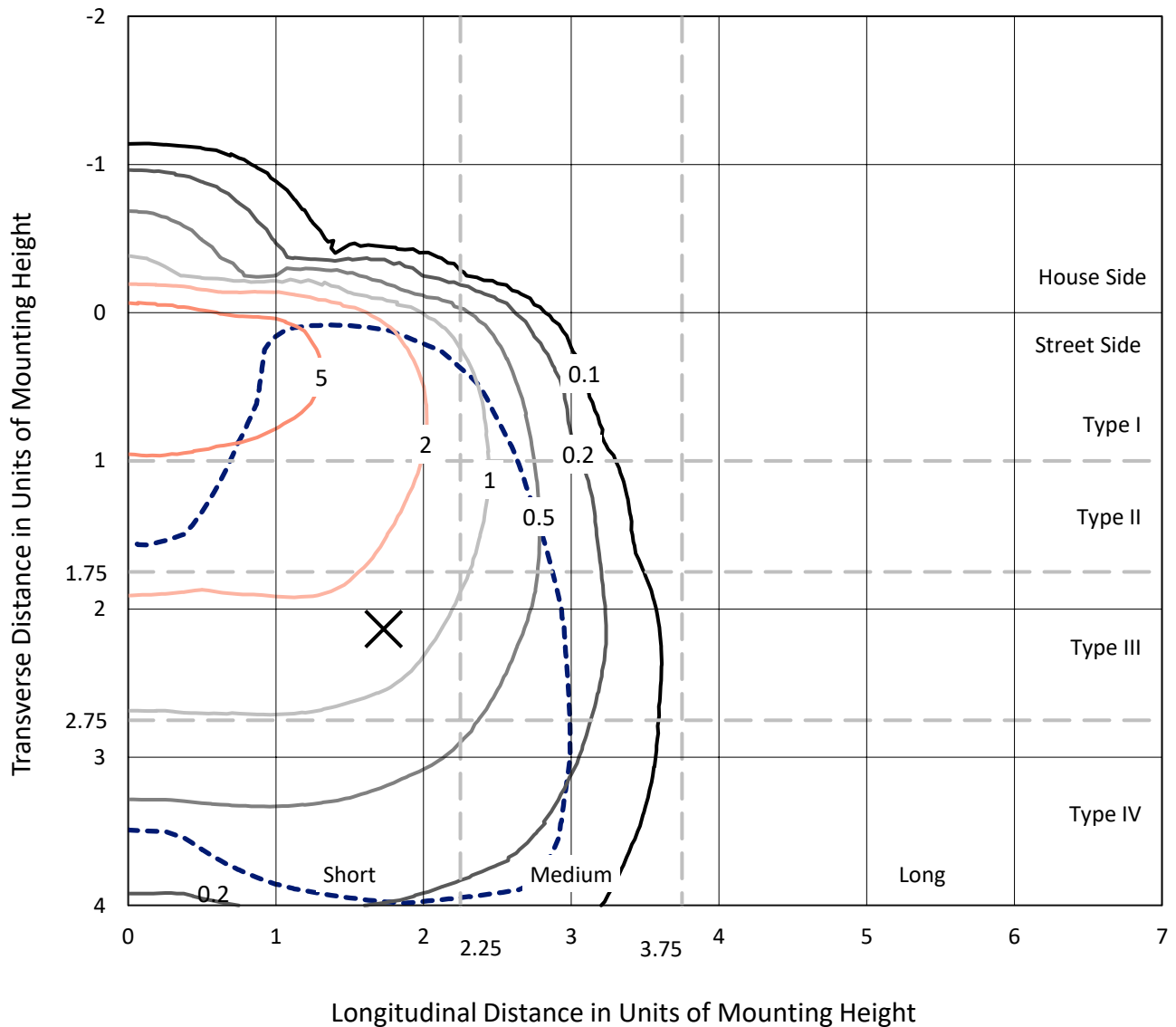
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

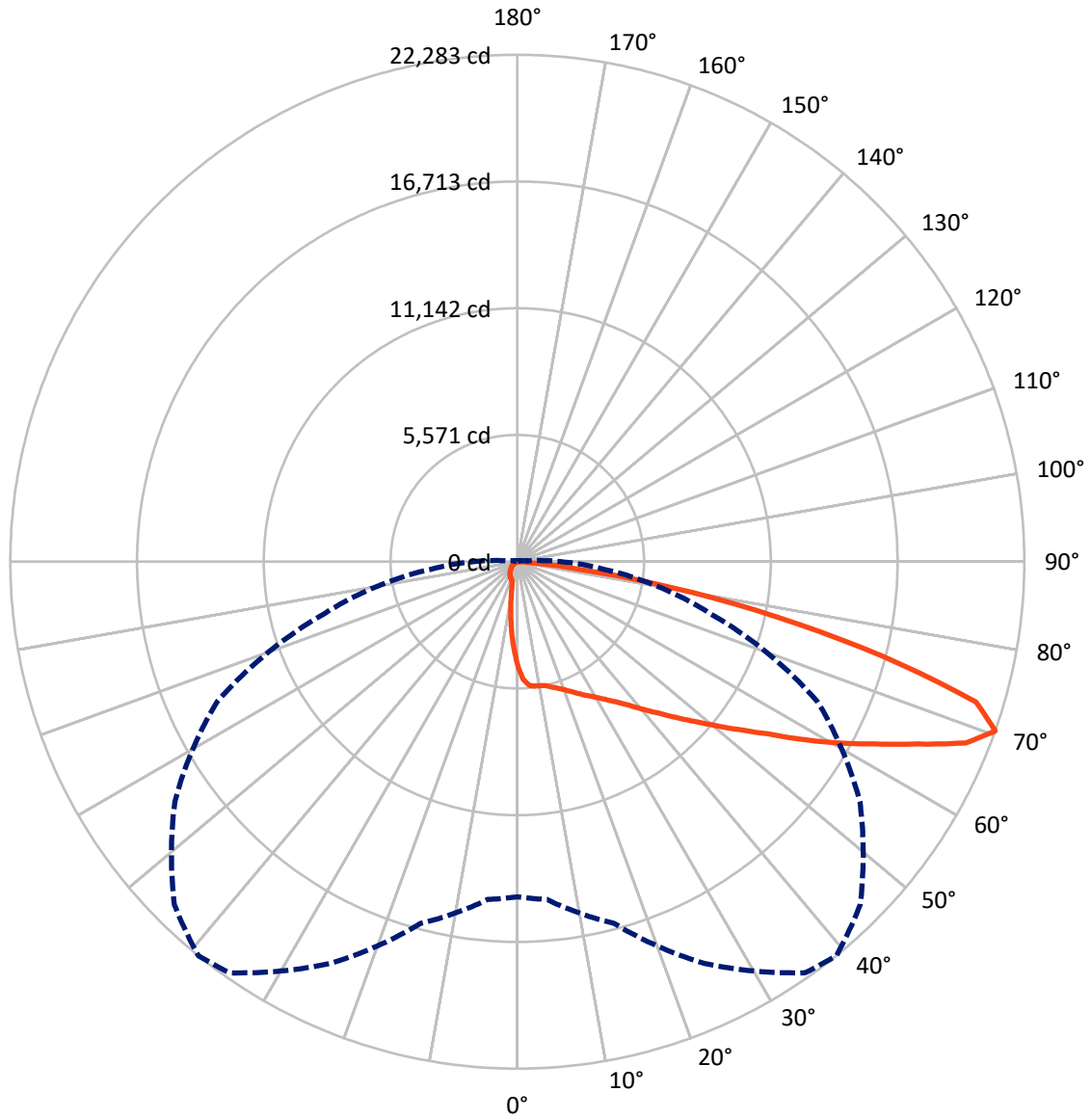
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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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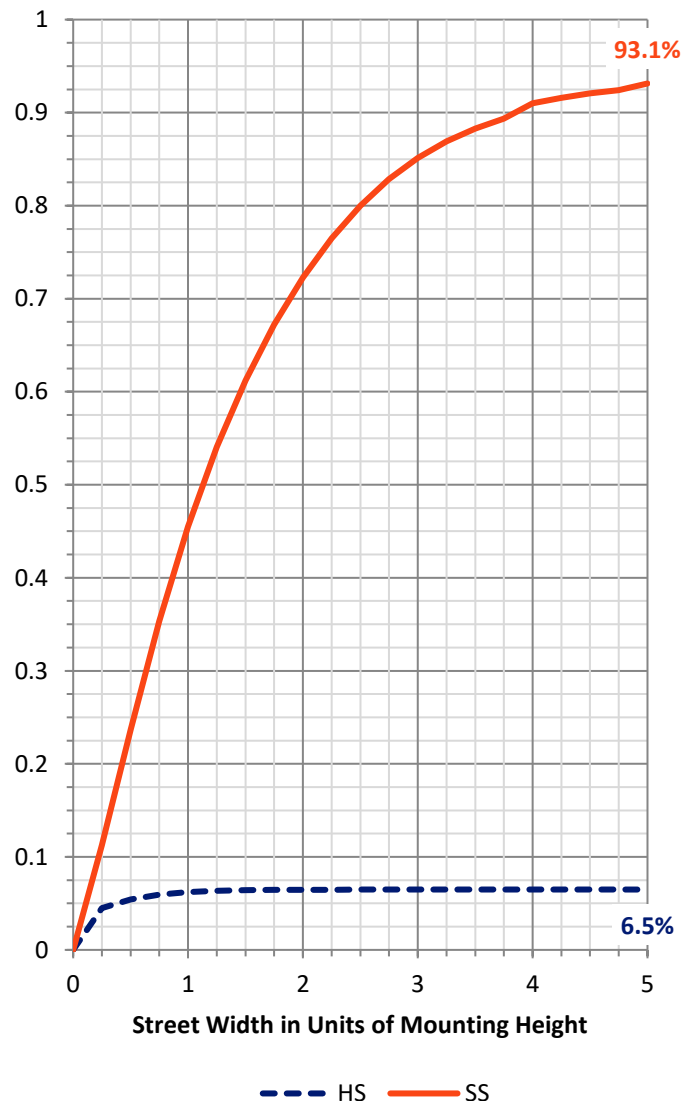
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1935.9	0.0	1935.9
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	27754.1	0.0	27754.1
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	29690.0	0.0	29690.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	395.1	1.3
10°-20°	1026.8	3.5
20°-30°	1720.2	5.8
30°-40°	2667.9	9.0
40°-50°	4227.8	14.2
50°-60°	6197.3	20.9
60°-70°	7943.4	26.8
70°-80°	4991.4	16.8
80°-90°	520.0	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°	29690.0	100.0
0°-180°	29690.0	100.0



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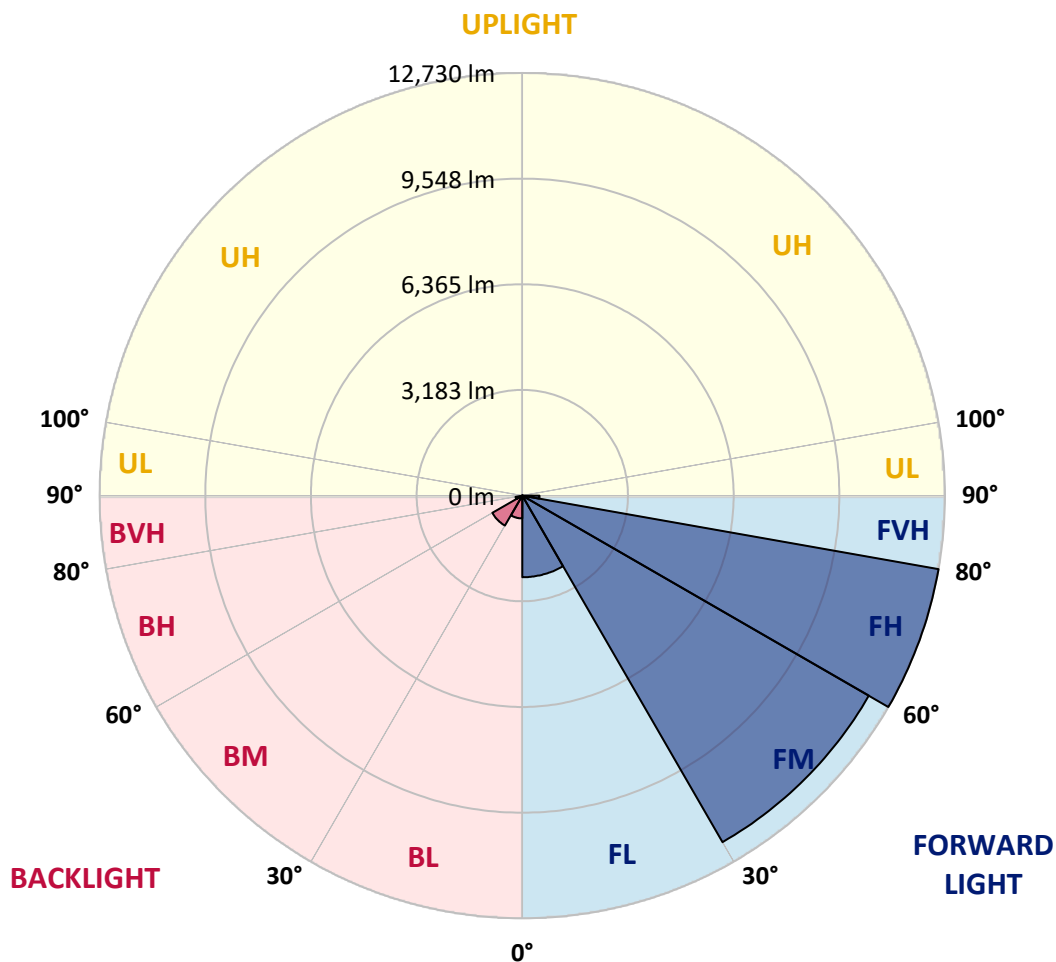
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2456.7	8.3			
FM	(30°-60°)	12051.1	40.6			
FH	(60°-80°)	12730.1	42.9			G5
FVH	(80°-90°)	516.2	1.7			G4/750
BL	(0°-30°)	685.5	2.3	B2/1000		
BM	(30°-60°)	1041.9	3.5	B2/2500		
BH	(60°-80°)	204.7	0.7	B1/500		G1/500
BVH	(80°-90°)	3.8	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°	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7
2.5°	5352.9	5334.9	5311.0	5283.1	5203.3	5189.3	5141.4	5039.7	4918.0	4818.2	4680.5
5°	5606.3	5616.3	5598.3	5548.4	5490.6	5456.6	5396.8	5239.2	5081.6	4880.1	4654.6
7.5°	5664.1	5684.1	5662.1	5614.3	5558.4	5522.5	5474.6	5338.9	5155.4	4925.9	4616.7
10°	5658.1	5682.1	5668.1	5624.2	5578.3	5544.4	5492.6	5384.8	5237.2	4995.8	4628.7
12.5°	5648.2	5680.1	5678.1	5656.2	5618.2	5592.3	5560.4	5464.6	5327.0	5097.5	4694.5
15°	5620.2	5660.1	5696.1	5714.0	5716.0	5716.0	5676.1	5574.4	5442.7	5231.2	4780.3
17.5°	5632.2	5678.1	5767.9	5819.8	5855.7	5851.7	5809.8	5700.0	5554.4	5368.9	4870.1
20°	5706.0	5767.9	5893.6	5997.3	6033.2	6021.3	5965.4	5837.7	5672.1	5486.6	4957.9
22.5°	5887.6	5943.4	6101.1	6222.8	6248.7	6216.8	6137.0	5963.4	5813.8	5614.3	5063.6
25°	6158.9	6224.8	6370.4	6462.2	6462.2	6444.2	6332.5	6129.0	5973.4	5791.8	5201.3
27.5°	6488.1	6544.0	6687.6	6769.4	6721.5	6669.7	6557.9	6312.5	6162.9	6015.3	5366.9
30°	6821.3	6857.2	7008.8	7044.8	6994.9	6929.0	6809.3	6563.9	6432.3	6318.5	5606.3
32.5°	7136.5	7214.3	7340.0	7332.0	7264.2	7232.3	7122.6	6861.2	6787.4	6775.4	5941.5
35°	7451.8	7511.6	7623.3	7651.3	7591.4	7585.4	7505.6	7312.1	7314.1	7391.9	6464.2
37.5°	7723.1	7777.0	7908.6	7970.5	7982.5	8012.4	7980.5	7852.8	8034.3	8247.8	7156.5
40°	7950.5	8026.3	8193.9	8301.7	8425.4	8535.1	8541.1	8569.0	8934.1	9301.2	8060.3
42.5°	8128.1	8233.8	8477.2	8676.8	8960.1	9099.7	9211.4	9365.1	9979.6	10528.2	9125.7
45°	8359.5	8481.2	8784.5	9097.7	9540.6	9770.1	9925.7	10336.7	11208.6	11956.7	10219.0
47.5°	8742.6	8806.4	9115.7	9572.6	10155.1	10482.3	10785.6	11408.1	12527.3	13197.7	11128.8
50°	9235.4	9277.3	9510.7	10145.2	10899.3	11330.3	11882.9	12615.1	13896.0	14227.2	11643.5
52.5°	9780.1	9794.0	9969.6	10775.6	11733.3	12275.9	12894.4	13798.2	15011.2	14961.4	11984.7
55°	10412.5	10392.6	10542.2	11459.9	12720.9	13341.3	14061.6	15009.3	15978.9	15482.1	12180.2
57.5°	11136.7	11082.9	11228.5	12367.7	13985.8	14727.9	15460.2	16054.7	16729.0	15919.0	12274.0
60°	11894.9	11787.1	11960.7	13387.2	15476.1	16180.4	16788.9	16948.5	17519.1	16266.2	12112.3
62.5°	12499.4	12501.4	12824.6	14472.6	17008.4	17624.9	17948.1	18091.7	18199.4	16190.4	11262.4
65°	13443.1	13475.0	13991.7	15978.9	18782.0	19316.7	19538.2	19071.3	18229.4	15248.7	9985.6
67.5°	14416.7	14518.5	15464.1	18053.8	20831.0	21261.9	20976.6	19260.8	17415.4	13099.9	7571.5
70°	14733.9	14901.5	16459.7	19482.3	22060.0	22283.4	21317.8	18377.0	14558.4	8758.6	3810.7
72.5°	13500.9	13772.3	15887.1	18961.6	21275.9	21082.4	19073.3	15412.3	9255.3	3325.9	1163.2
75°	9520.7	9640.4	13203.7	15729.5	17112.1	16563.4	14508.5	9935.7	3806.7	933.7	399.0
77.5°	4916.0	4858.1	7852.8	10436.4	12204.1	11635.5	9500.7	5143.4	1442.5	389.0	247.4
80°	2541.8	2583.7	3397.7	5468.6	7449.8	6855.2	5065.6	2384.2	768.1	215.5	189.5
82.5°	1424.5	1336.7	1953.2	2388.2	3483.5	2731.3	1943.2	1687.9	335.2	129.7	179.6
85°	259.4	271.3	1071.4	1290.8	1209.0	768.1	626.5	1127.2	97.8	71.8	125.7
87.5°	4.0	4.0	207.5	371.1	235.4	107.7	197.5	161.6	20.0	27.9	21.9
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°	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7	4632.7
2.5°	4610.7	4534.9	4393.2	4253.6	4076.0	3930.4	3832.6	3730.9	3627.1	3635.1	3659.0
5°	4530.9	4399.2	4119.9	3824.6	3541.3	3286.0	3034.6	2809.1	2717.3	2633.6	2637.5
7.5°	4451.1	4265.6	3856.6	3393.7	2964.7	2529.8	2214.6	1955.2	1817.6	1713.8	1683.9
10°	4415.2	4169.8	3615.1	2978.7	2370.2	1895.4	1490.4	1278.9	1115.3	1063.4	1077.4
12.5°	4431.2	4121.9	3397.7	2603.6	1879.4	1320.8	1037.5	929.7	893.8	887.8	883.8
15°	4461.1	4088.0	3184.2	2188.6	1380.6	981.6	871.9	851.9	847.9	843.9	845.9
17.5°	4501.0	4058.1	2956.8	1799.6	1059.4	857.9	826.0	816.0	814.0	814.0	814.0
20°	4540.9	4024.1	2703.4	1452.4	883.8	810.0	790.1	784.1	782.1	782.1	780.1
22.5°	4586.8	3994.2	2446.0	1141.2	814.0	776.1	758.1	754.2	752.2	750.2	750.2
25°	4652.6	3956.3	2172.7	933.7	770.1	744.2	726.2	722.2	720.2	712.3	714.3
27.5°	4740.4	3928.4	1891.4	806.0	730.2	704.3	692.3	686.3	682.3	676.3	678.3
30°	4860.1	3904.4	1592.1	736.2	684.3	662.4	650.4	646.4	642.4	636.4	636.4
32.5°	5067.6	3914.4	1276.9	680.3	642.4	616.5	604.5	600.5	596.5	590.6	590.6
35°	5378.8	3972.3	1021.5	632.5	592.5	566.6	554.6	554.6	548.7	540.7	538.7
37.5°	5887.6	4119.9	820.0	586.6	544.7	520.7	506.8	502.8	496.8	484.8	482.8
40°	6488.1	4349.4	690.3	540.7	500.8	476.8	464.9	452.9	436.9	425.0	423.0
42.5°	7242.3	4584.8	598.5	494.8	458.9	436.9	423.0	403.0	379.1	363.1	361.1
45°	8028.3	4800.2	536.7	452.9	419.0	401.0	385.1	353.1	323.2	303.3	301.3
47.5°	8614.9	4840.2	486.8	413.0	385.1	367.1	345.2	305.3	265.4	247.4	241.4
50°	8892.2	4646.6	434.9	373.1	351.1	331.2	303.3	257.4	213.5	191.5	187.5
52.5°	8990.0	4311.4	393.0	337.2	317.2	293.3	259.4	207.5	167.6	145.6	143.6
55°	8950.1	3888.5	355.1	303.3	277.3	249.4	215.5	165.6	123.7	105.7	101.8
57.5°	8740.6	3349.8	317.2	269.3	237.4	209.5	171.6	123.7	83.8	67.8	65.8
60°	8176.0	2615.6	279.3	231.4	201.5	171.6	135.7	87.8	51.9	37.9	37.9
62.5°	7222.3	1941.2	243.4	193.5	169.6	137.7	95.8	55.9	27.9	20.0	18.0
65°	6035.2	1432.5	203.5	163.6	141.7	107.7	67.8	33.9	14.0	6.0	4.0
67.5°	4211.7	883.8	169.6	133.7	115.7	77.8	41.9	14.0	6.0	0.0	0.0
70°	1913.3	421.0	129.7	101.8	87.8	55.9	21.9	8.0	4.0	0.0	0.0
72.5°	594.5	221.5	91.8	73.8	59.9	35.9	12.0	6.0	4.0	0.0	0.0
75°	275.3	141.7	57.9	39.9	33.9	18.0	8.0	4.0	2.0	0.0	0.0
77.5°	205.5	109.7	33.9	21.9	18.0	12.0	6.0	4.0	2.0	0.0	0.0
80°	179.6	55.9	20.0	14.0	10.0	8.0	4.0	2.0	0.0	0.0	0.0
82.5°	161.6	27.9	12.0	8.0	6.0	4.0	2.0	2.0	0.0	0.0	0.0
85°	87.8	16.0	8.0	6.0	4.0	2.0	2.0	0.0	0.0	0.0	0.0
87.5°	16.0	8.0	6.0	4.0	4.0	2.0	2.0	2.0	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)