

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: P383378

Luminaire Tested: **GLEON-SA6D-735-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383378  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA6D-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30700.1 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

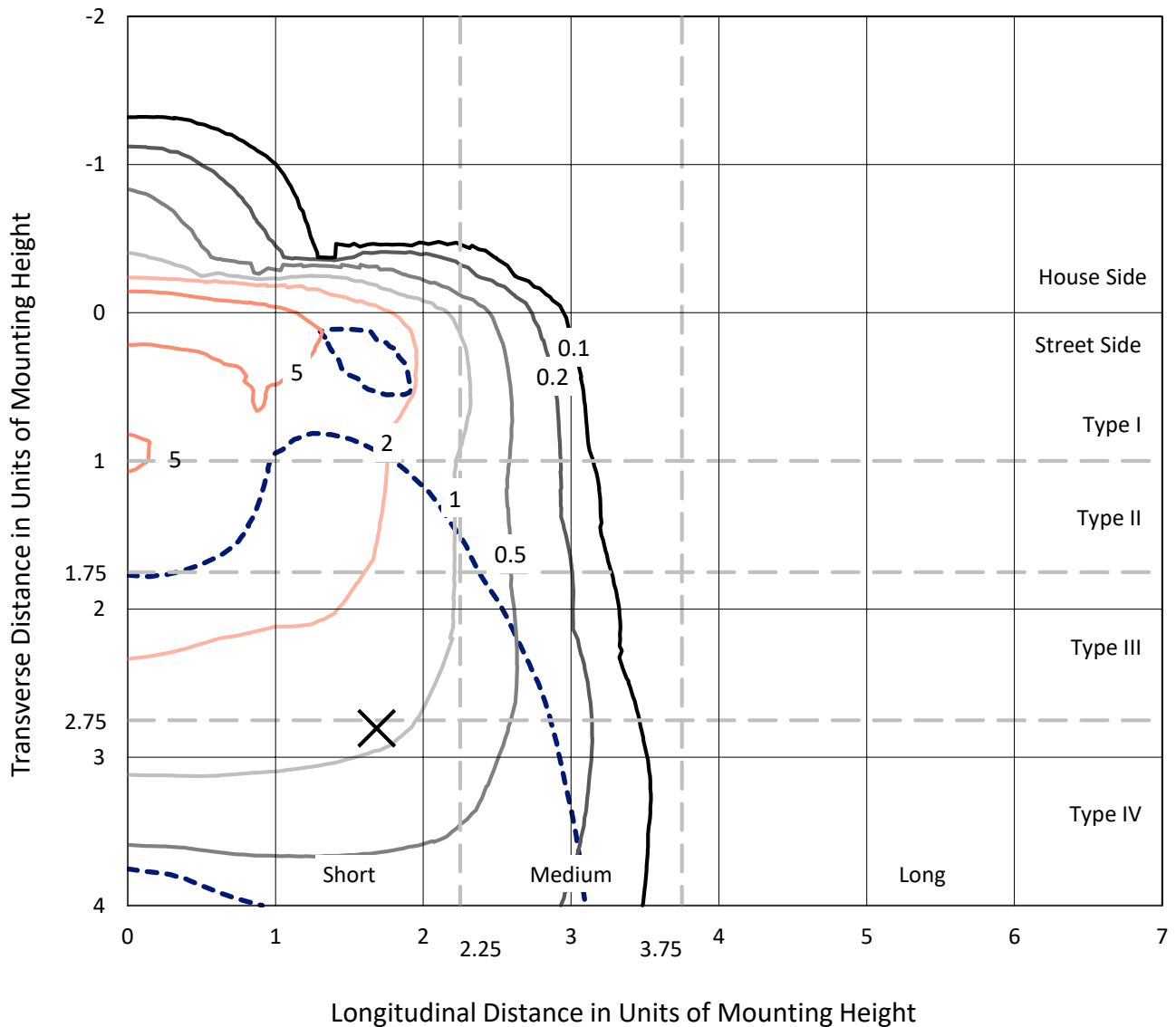
Input Watts (W): 382  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

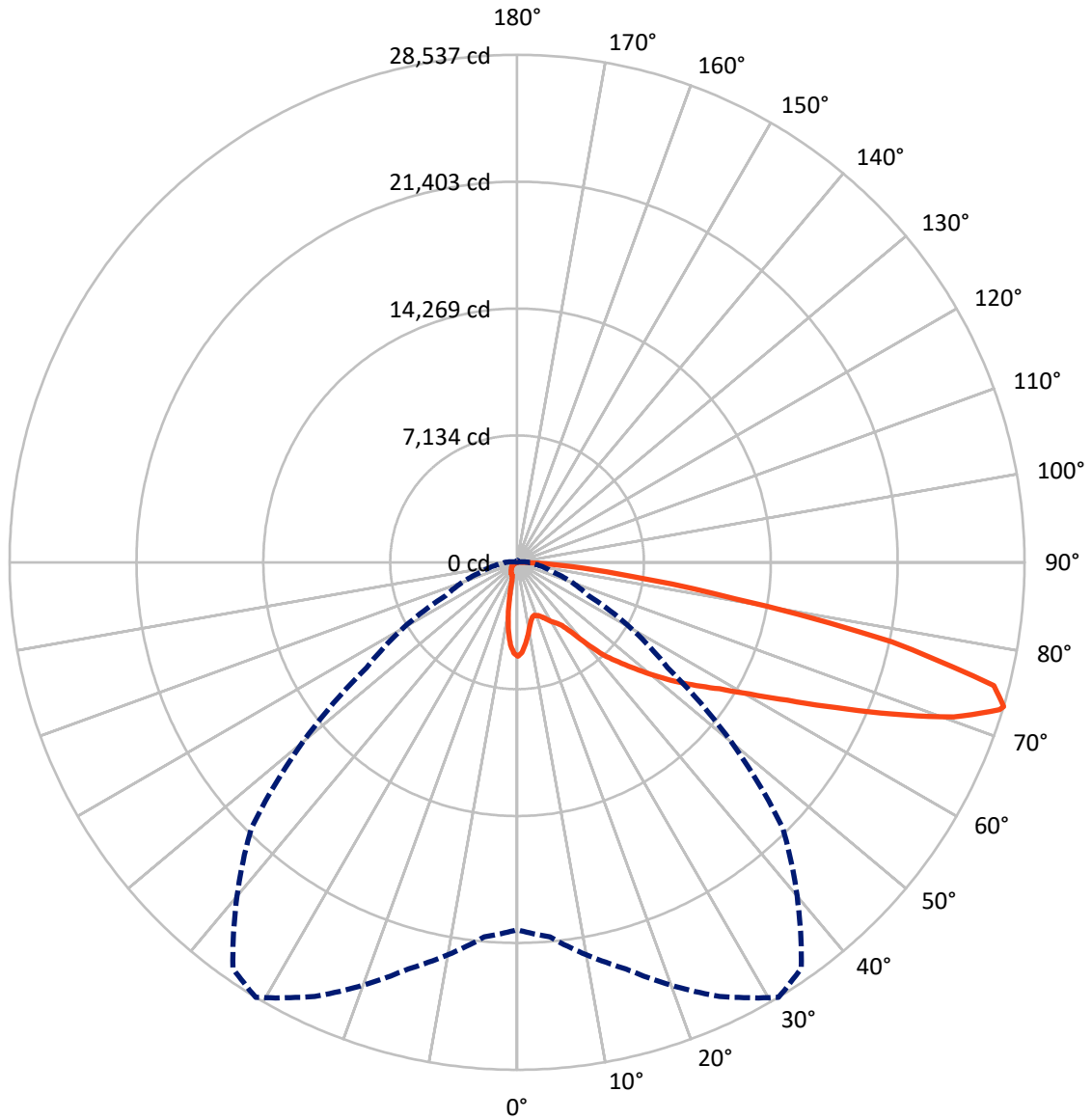
✕ Max cd  
 - - - 1/2 Max cd



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 31-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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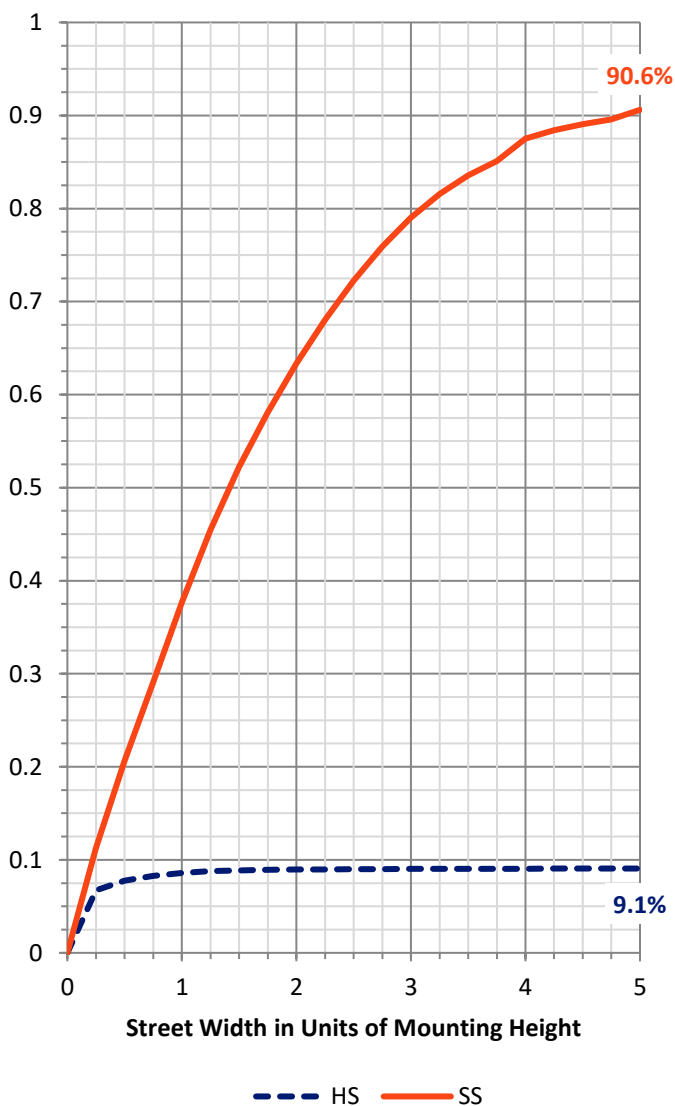
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2798.4	0.0	2798.4
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	27901.7	0.0	27901.7
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	30700.1	0.0	30700.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	437.9	1.4
10°-20°	950.9	3.1
20°-30°	1424.8	4.6
30°-40°	2266.8	7.4
40°-50°	4047.9	13.2
50°-60°	6281.1	20.5
60°-70°	8349.9	27.2
70°-80°	6280.8	20.5
80°-90°	660.0	2.1
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°	30700.1	100.0
0°-180°	30700.1	100.0

**Coefficient of Utilization**

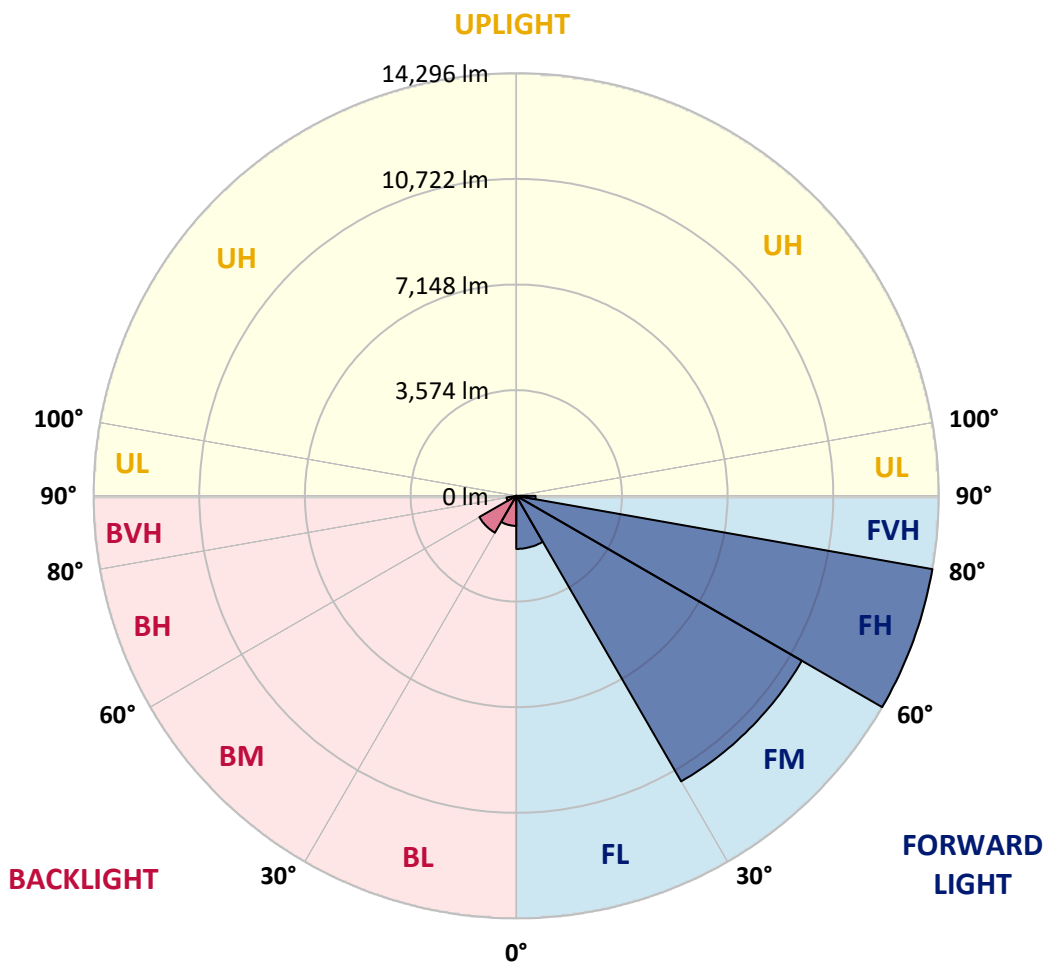


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1796.0	5.9			
FM (30°-60°)	11155.3	36.3			
FH (60°-80°)	14295.9	46.6			G5
FVH (80°-90°)	654.4	2.1			G4/750
BL (0°-30°)	1017.6	3.3	B3/2500		
BM (30°-60°)	1440.4	4.7	B2/2500		
BH (60°-80°)	334.8	1.1	B1/500		G1/500
BVH (80°-90°)	5.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0
2.5°	5005.6	5026.6	5049.2	5053.6	5091.2	5092.8	5146.8	5187.3	5227.9	5267.0	5280.5
5°	4491.8	4526.4	4566.9	4607.5	4687.1	4718.7	4850.8	4986.1	5115.2	5238.5	5298.5
7.5°	3943.5	3982.6	4039.7	4140.3	4228.9	4290.5	4499.3	4739.7	4980.1	5206.9	5337.6
10°	3443.2	3479.2	3539.4	3646.0	3782.7	3866.9	4147.8	4481.3	4834.4	5178.4	5396.2
12.5°	3124.8	3144.3	3177.3	3291.5	3414.7	3509.3	3839.8	4253.0	4714.2	5176.9	5490.8
15°	3066.2	3072.2	3045.1	3096.2	3192.3	3284.0	3619.0	4068.2	4622.5	5200.9	5614.0
17.5°	3159.3	3156.3	3066.2	3060.1	3136.8	3211.9	3510.8	3940.4	4557.9	5256.4	5773.3
20°	3300.5	3289.9	3133.7	3105.2	3186.4	3257.0	3503.3	3892.4	4533.8	5349.6	5967.0
22.5°	3488.3	3470.3	3225.4	3195.3	3282.5	3356.1	3596.4	3939.0	4554.9	5474.3	6192.4
25°	3721.2	3694.1	3383.1	3350.1	3438.7	3512.3	3763.2	4072.6	4618.0	5626.0	6477.8
27.5°	3984.0	3945.0	3635.6	3549.8	3650.5	3727.1	3985.5	4277.0	4717.2	5786.8	6827.9
30°	4231.9	4180.9	3901.4	3760.2	3883.4	3969.0	4225.9	4520.3	4876.4	6034.7	7307.1
32.5°	4481.3	4424.2	4138.8	3970.5	4081.7	4174.8	4473.8	4855.3	5175.3	6413.2	7944.1
35°	5055.1	4995.1	4645.1	4367.1	4365.6	4418.2	4820.9	5313.5	5570.5	6940.5	8704.2
37.5°	6021.2	5986.6	5653.1	5125.7	4984.5	4925.9	5294.0	5860.4	6138.3	7666.2	9562.0
40°	7078.7	7048.6	6674.6	6196.9	5982.1	5837.8	5973.1	6622.0	6940.5	8552.4	10437.8
42.5°	8273.1	8130.4	7463.3	7320.6	7128.3	7018.7	6897.0	7561.0	7926.0	9517.0	11306.2
45°	9357.7	9117.3	8252.0	8035.7	7992.1	8019.1	8086.8	8822.9	9034.7	10663.1	12171.5
47.5°	10003.7	9814.4	9150.4	8943.0	8931.0	9109.8	9620.6	10248.5	10138.9	11662.2	12933.1
50°	10618.2	10446.8	9895.6	9946.6	10002.2	10245.5	11361.7	11714.8	11146.9	12568.1	13631.7
52.5°	11115.3	10853.9	10565.5	10852.4	11125.8	11517.9	13158.5	13030.8	11862.0	13289.2	14229.6
55°	11402.3	11283.6	11423.3	11711.8	12225.5	12862.5	14854.6	14125.9	12384.8	13947.1	14627.7
57.5°	12453.9	12221.1	12498.9	12748.3	13418.4	14309.2	16307.2	14941.7	12761.8	14354.3	14719.3
60°	13726.4	13538.6	13702.3	14117.0	15021.3	16068.4	17665.3	15607.1	12958.7	14615.7	14481.9
62.5°	15751.4	15503.6	15401.4	15865.6	17064.4	18207.7	18695.9	16068.4	12915.1	14500.0	13667.8
65°	18464.5	18207.7	17750.9	18171.6	19696.4	20503.1	19848.1	16166.0	12614.6	13564.1	11609.6
67.5°	21243.8	21057.4	20666.8	21375.9	22752.0	23011.9	21066.5	15928.6	11647.1	10998.2	8202.5
70°	23079.5	22999.9	23253.8	24822.1	26049.5	25974.4	22184.2	14653.2	9078.3	6763.2	4057.6
72.5°	21756.0	22137.6	24012.4	26856.2	28355.5	27742.6	21610.3	11252.1	5188.9	2601.9	1173.3
73°	20659.3	21147.6	23671.4	26932.8	28537.3	27865.8	21128.1	10328.2	4422.7	2053.6	889.3
75°	14372.3	14971.7	19597.2	25083.5	27687.0	26549.8	17611.2	6321.6	2049.1	910.4	359.0
77.5°	6978.1	7421.3	10790.9	18123.4	21532.2	20743.4	10963.7	2355.6	925.4	569.4	165.3
80°	2605.0	2896.4	4684.1	9224.0	12443.3	12769.4	4822.3	890.8	615.9	458.2	84.1
82.5°	682.1	760.1	1727.6	4113.2	6377.2	6674.6	1520.3	449.2	450.7	377.1	51.0
85°	217.8	249.4	539.3	1846.3	3004.5	2638.0	396.6	217.8	327.5	281.0	28.5
87.5°	27.0	34.6	171.2	434.2	662.5	368.1	61.6	64.6	139.7	156.2	16.5
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°	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0
2.5°	5294.0	5286.5	5288.0	5249.0	5223.5	5172.3	5119.8	5095.8	5070.2	5059.7	5070.2
5°	5321.1	5307.6	5268.5	5148.3	5020.6	4855.3	4700.6	4583.5	4436.2	4395.7	4437.7
7.5°	5363.1	5336.1	5221.9	4977.1	4693.1	4377.6	4023.1	3764.8	3552.9	3416.2	3465.7
10°	5424.8	5373.6	5143.8	4727.7	4219.9	3661.1	3157.8	2765.7	2487.8	2373.6	2369.1
12.5°	5528.4	5432.2	5047.7	4403.1	3641.5	2896.4	2236.9	1811.8	1586.4	1440.7	1437.7
15°	5642.6	5501.3	4925.9	4014.1	2968.5	2074.6	1440.7	1117.7	972.0	925.4	919.4
17.5°	5782.3	5581.0	4768.2	3534.9	2263.9	1374.6	940.4	847.2	841.3	836.8	836.8
20°	5958.0	5675.6	4565.4	2986.5	1605.9	917.9	799.2	805.2	808.2	802.2	803.7
22.5°	6162.4	5771.8	4323.6	2397.6	1086.2	767.7	764.6	772.2	775.1	772.2	773.7
25°	6399.7	5882.9	4029.1	1780.2	784.2	728.6	736.1	746.6	754.2	754.2	754.2
27.5°	6694.2	6018.2	3674.6	1242.4	677.5	688.0	709.1	728.6	739.1	742.2	742.2
30°	7077.2	6186.4	3249.4	851.8	615.9	633.9	673.0	710.6	730.1	733.1	734.6
32.5°	7561.0	6375.7	2756.6	629.4	563.4	576.9	618.9	682.1	719.6	725.6	725.6
35°	8115.3	6595.0	2226.4	548.3	525.8	530.3	563.4	635.5	701.5	718.1	719.6
37.5°	8722.3	6811.3	1693.1	512.3	494.3	494.3	518.3	579.9	658.0	709.1	715.1
40°	9288.6	6942.0	1186.8	483.8	465.7	465.7	486.7	531.8	605.4	682.1	698.6
42.5°	9811.3	6987.1	826.3	456.7	438.7	443.1	461.2	497.3	552.9	629.4	644.4
45°	10349.2	6979.6	602.4	425.2	411.7	425.2	438.7	465.7	506.3	549.8	552.9
47.5°	10754.8	6916.5	477.7	395.1	386.1	404.1	416.1	434.2	456.7	453.7	453.7
50°	11134.9	6763.2	384.5	354.5	360.5	381.6	387.6	393.6	395.1	366.6	363.6
52.5°	11423.3	6524.4	308.0	311.0	335.0	356.0	350.1	341.0	325.9	291.5	285.4
55°	11519.5	6064.7	241.8	256.9	297.4	324.5	301.9	282.4	253.8	225.3	219.3
57.5°	11345.2	5471.3	196.8	199.8	250.9	273.4	247.9	225.3	193.8	169.7	165.3
60°	10975.7	4811.8	162.3	150.3	193.8	213.3	196.8	174.3	145.7	127.7	126.2
62.5°	10242.6	4108.8	133.7	117.2	147.2	163.8	153.2	136.8	112.7	100.6	99.1
65°	8701.2	3287.0	108.2	94.6	114.2	127.7	118.7	106.7	88.6	79.6	78.2
67.5°	6073.7	2221.8	88.6	78.2	90.2	100.6	93.2	87.1	70.6	69.1	70.6
70°	2929.4	1071.1	73.6	63.1	70.6	78.2	75.1	70.6	67.6	78.2	90.2
72.5°	839.8	359.0	58.6	52.5	57.1	61.6	64.6	63.1	73.6	94.6	109.6
73°	645.9	289.9	55.6	49.6	54.1	60.1	63.1	61.6	75.1	96.1	109.6
75°	276.4	139.7	42.1	40.5	45.1	52.5	55.6	55.6	75.1	97.6	105.2
77.5°	124.7	75.1	27.0	31.6	39.0	42.1	46.6	46.6	60.1	75.1	75.1
80°	70.6	40.5	21.1	24.0	28.5	28.5	28.5	25.5	27.0	30.1	33.1
82.5°	45.1	27.0	16.5	19.6	18.1	15.0	12.0	12.0	10.5	12.0	15.0
85°	25.5	15.0	15.0	12.0	7.5	6.1	7.5	6.1	1.5	0.0	1.5
87.5°	15.0	9.0	4.5	0.0	0.0	0.0	0.0	0.0	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)