

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: P383406

Luminaire Tested: **GLEON-SA7A-735-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383406  
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-SA7A-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 615mA 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: 21806.6 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

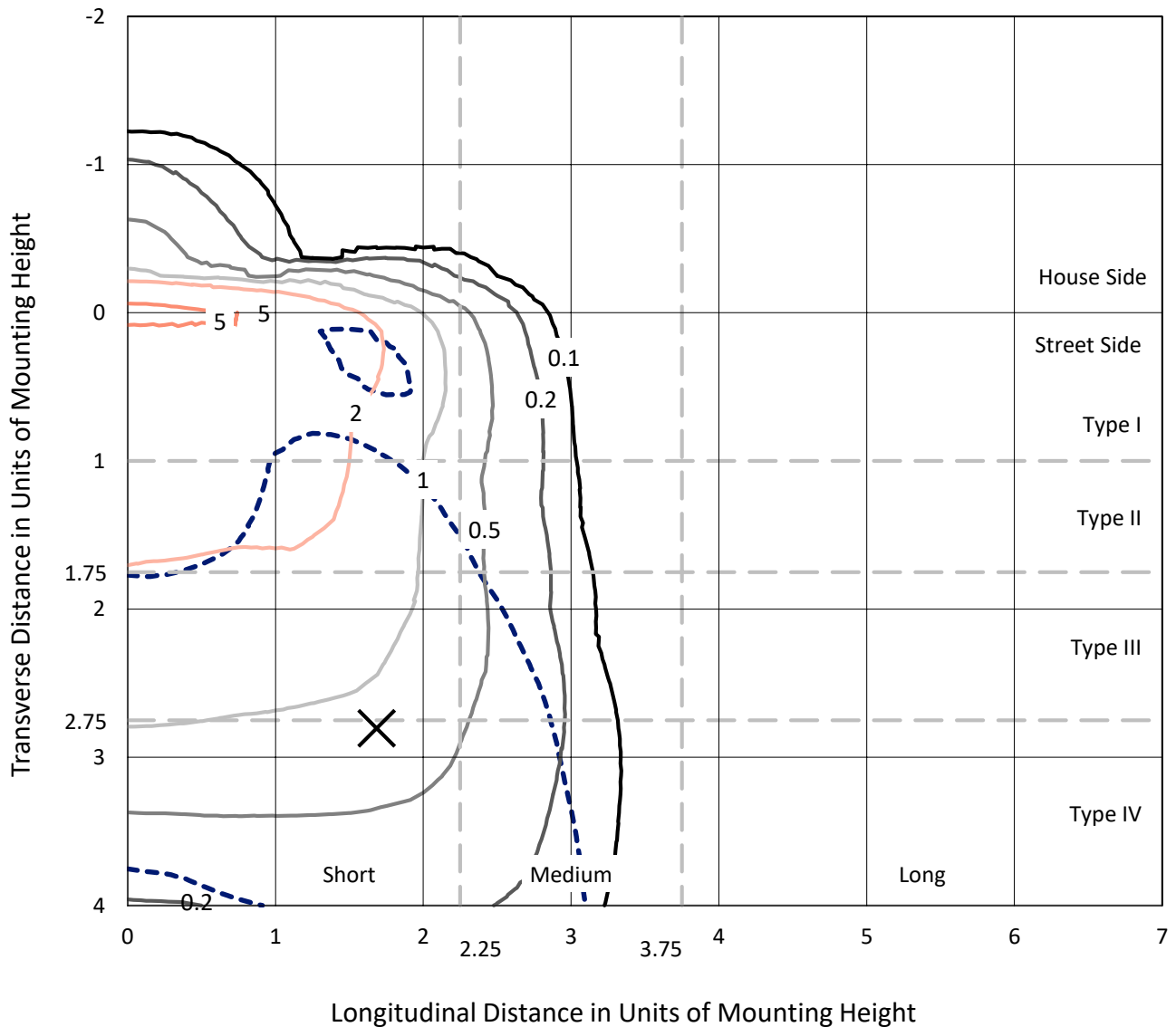
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

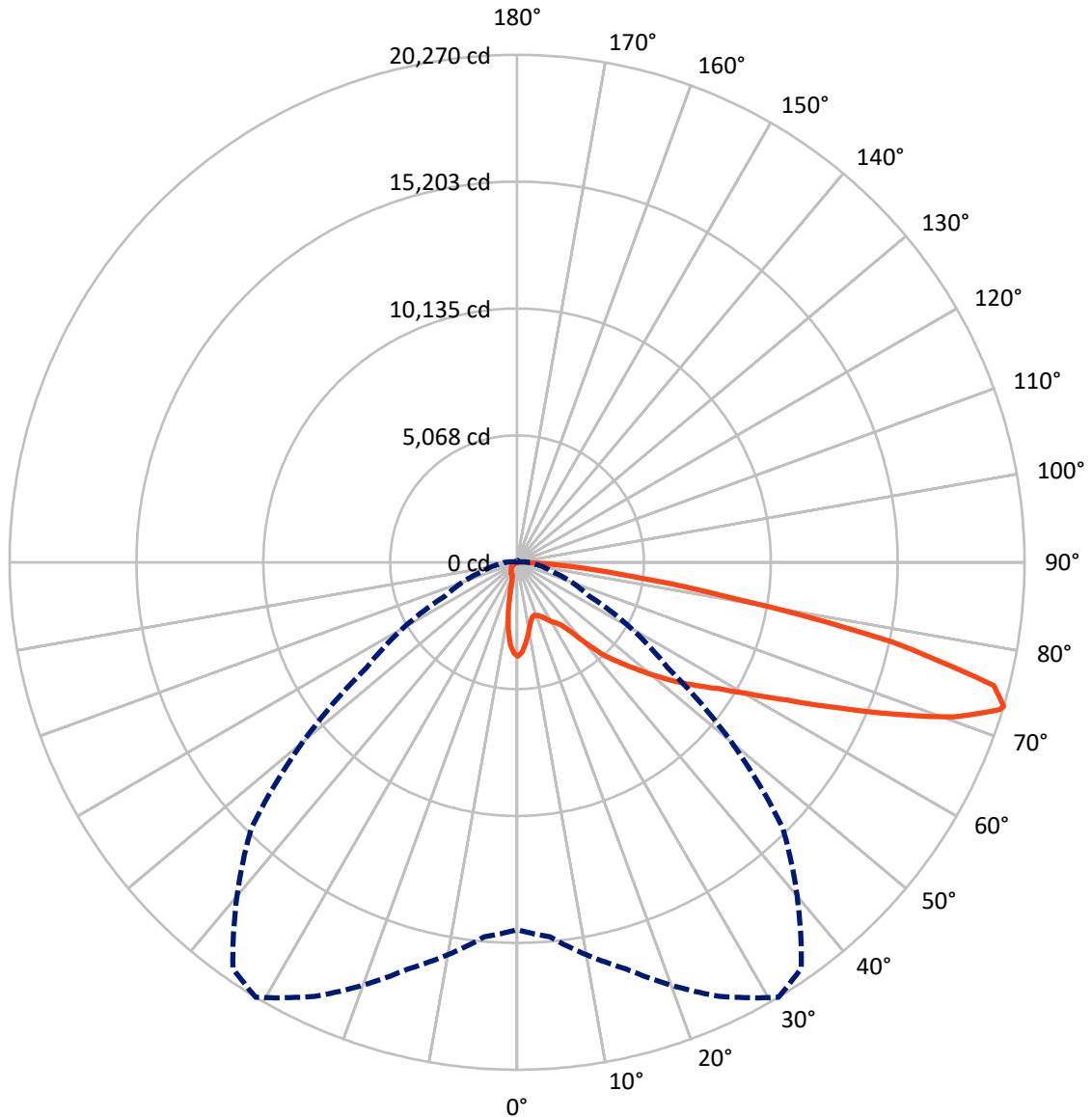
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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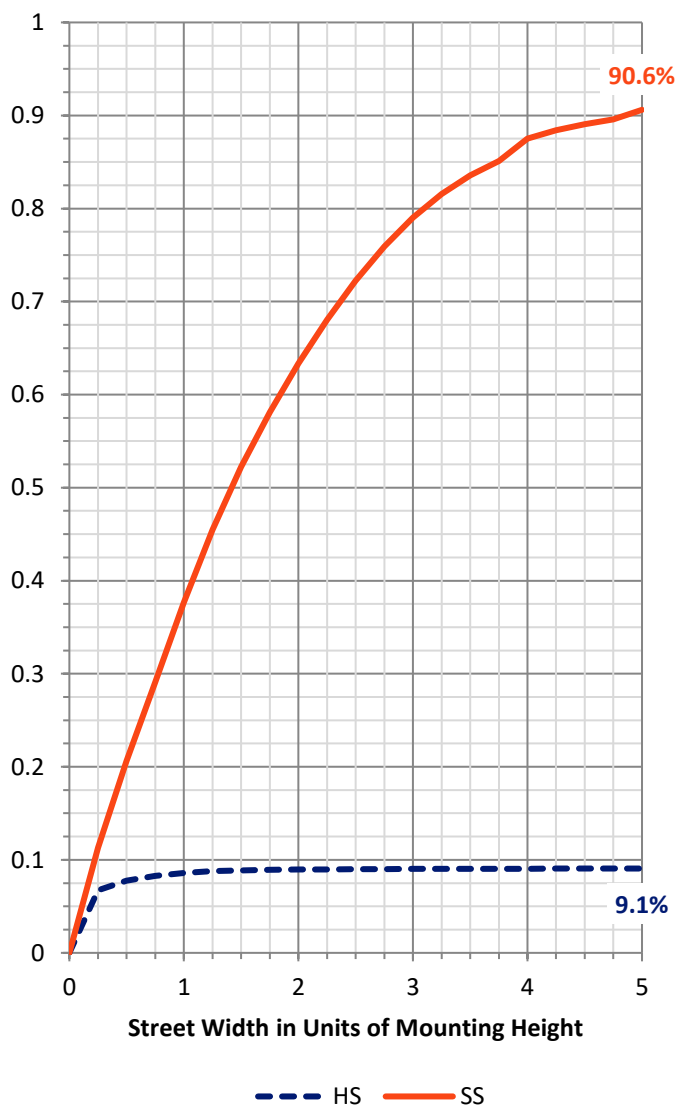
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1987.8	0.0	1987.8
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	19818.8	0.0	19818.8
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	21806.6	0.0	21806.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.1	1.4
10°-20°	675.4	3.1
20°-30°	1012.0	4.6
30°-40°	1610.1	7.4
40°-50°	2875.2	13.2
50°-60°	4461.6	20.5
60°-70°	5931.0	27.2
70°-80°	4461.3	20.5
80°-90°	468.8	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°	21806.6	100.0
0°-180°	21806.6	100.0

**Coefficient of Utilization**



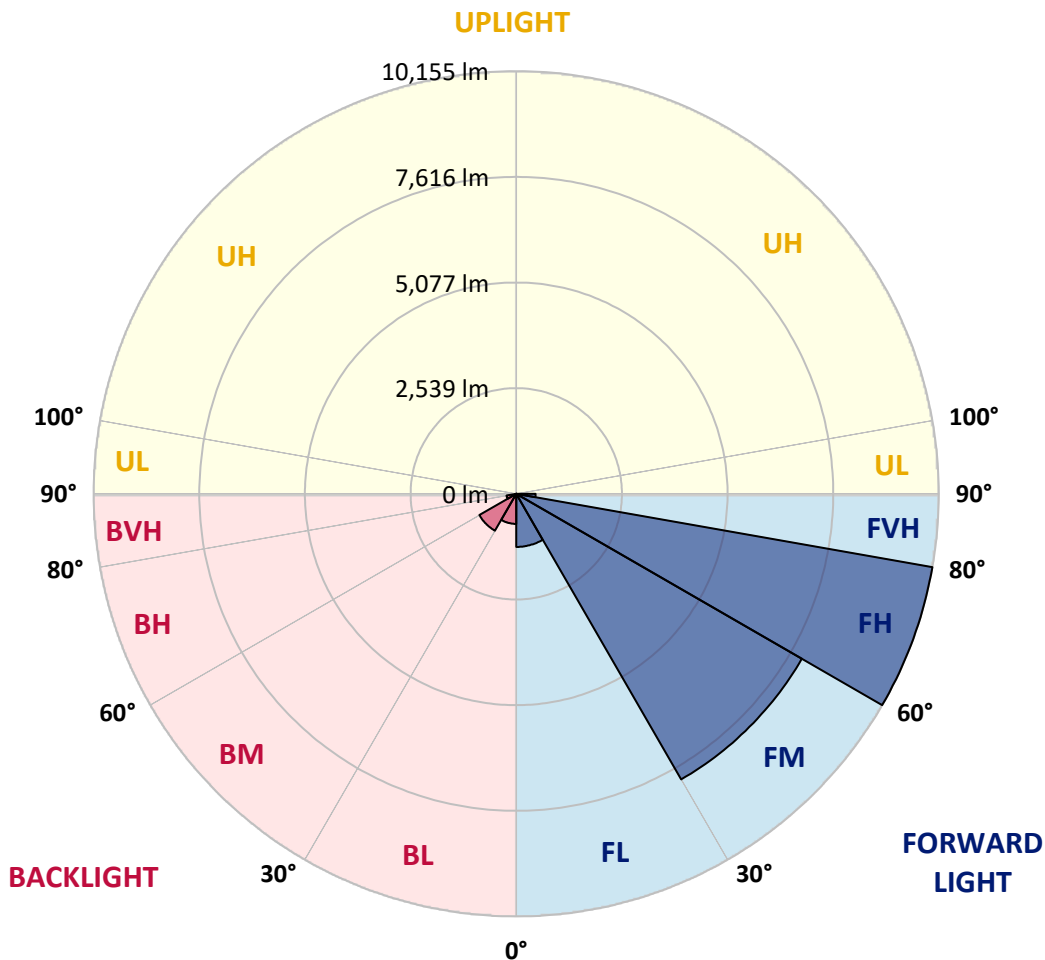
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1275.7	5.9			
FM (30°-60°)	7923.8	36.3			
FH (60°-80°)	10154.5	46.6			G4/12000
FVH (80°-90°)	464.8	2.1			G3/500
BL (0°-30°)	722.8	3.3	B2/1000		
BM (30°-60°)	1023.2	4.7	B2/2500		
BH (60°-80°)	237.8	1.1	B1/500		G1/500
BVH (80°-90°)	3.9	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°	31°	35°	45°	55°	65°	75°	85°
0°	3751.9	3751.9	3751.9	3751.9	3751.9	3751.9	3751.9	3751.9	3751.9	3751.9	3751.9
2.5°	3555.5	3570.4	3586.5	3589.7	3616.4	3617.4	3655.9	3684.6	3713.4	3741.2	3750.8
5°	3190.6	3215.1	3243.9	3272.7	3329.3	3351.7	3445.6	3541.7	3633.4	3720.9	3763.6
7.5°	2801.1	2828.8	2869.4	2940.9	3003.9	3047.6	3196.0	3366.6	3537.4	3698.5	3791.3
10°	2445.8	2471.4	2514.1	2589.8	2687.0	2746.7	2946.2	3183.1	3433.9	3678.2	3832.9
12.5°	2219.5	2233.4	2256.9	2338.0	2425.5	2492.7	2727.5	3020.9	3348.5	3677.2	3900.2
15°	2178.0	2182.2	2163.0	2199.3	2267.6	2332.7	2570.6	2889.7	3283.4	3694.2	3987.7
17.5°	2244.1	2242.0	2178.0	2173.7	2228.1	2281.5	2493.8	2798.9	3237.5	3733.7	4100.8
20°	2344.4	2336.9	2225.9	2205.6	2263.3	2313.4	2488.4	2764.8	3220.5	3799.9	4238.4
22.5°	2477.7	2465.0	2291.0	2269.7	2331.6	2383.8	2554.6	2797.9	3235.4	3888.5	4398.5
25°	2643.2	2624.0	2403.1	2379.6	2442.5	2494.9	2673.1	2892.8	3280.3	3996.2	4601.3
27.5°	2829.9	2802.2	2582.3	2521.5	2593.1	2647.5	2831.0	3038.0	3350.7	4110.5	4849.9
30°	3006.0	2969.7	2771.3	2670.9	2758.4	2819.2	3001.7	3210.9	3463.8	4286.5	5190.3
32.5°	3183.1	3142.6	2939.8	2820.3	2899.3	2965.4	3177.8	3448.8	3676.1	4555.4	5642.8
35°	3590.7	3548.1	3299.4	3102.1	3100.9	3138.3	3424.3	3774.3	3956.7	4929.9	6182.7
37.5°	4276.9	4252.3	4015.4	3640.9	3540.6	3499.0	3760.4	4162.7	4360.1	5445.4	6792.0
40°	5028.1	5006.8	4741.0	4401.7	4249.2	4146.7	4242.7	4703.7	4929.9	6074.9	7414.1
42.5°	5876.5	5775.0	5301.3	5199.9	5063.3	4985.5	4899.0	5370.7	5629.9	6760.0	8030.9
45°	6646.9	6476.1	5861.5	5707.9	5676.9	5696.1	5744.1	6267.0	6417.4	7574.1	8645.5
47.5°	7105.8	6971.2	6499.6	6352.3	6343.8	6470.8	6833.6	7279.7	7201.8	8283.8	9186.5
50°	7542.2	7420.5	7028.9	7065.1	7104.6	7277.5	8070.4	8321.1	7917.8	8927.2	9682.7
52.5°	7895.3	7709.7	7504.8	7708.6	7902.8	8181.3	9346.6	9255.9	8425.7	9439.5	10107.4
55°	8099.2	8014.8	8114.2	8319.0	8684.0	9136.3	10551.4	10033.8	8797.1	9906.8	10390.2
57.5°	8846.2	8680.7	8878.1	9055.3	9531.2	10164.0	11583.2	10613.2	9064.9	10196.0	10455.3
60°	9749.9	9616.6	9732.9	10027.4	10669.8	11413.5	12547.9	11086.0	9204.7	10381.6	10286.7
62.5°	11188.4	11012.3	10939.7	11269.5	12121.0	12933.0	13279.9	11413.5	9173.7	10299.5	9708.3
65°	13115.5	12933.0	12608.7	12907.4	13990.5	14563.5	14098.3	11482.9	8960.3	9634.7	8246.4
67.5°	15089.7	14957.3	14679.9	15183.6	16161.0	16345.6	14963.7	11314.3	8273.1	7812.1	5826.3
70°	16393.7	16337.1	16517.4	17631.4	18503.2	18449.9	15757.6	10408.4	6448.4	4804.0	2882.2
72.5°	15453.5	15724.5	17056.3	19076.2	20141.3	19705.9	15350.0	7992.5	3685.7	1848.2	833.4
73°	14674.6	15021.4	16814.1	19130.7	20270.4	19793.3	15007.5	7336.2	3141.5	1458.7	631.7
75°	10208.8	10634.5	13920.1	17817.2	19666.4	18858.6	12509.5	4490.3	1455.5	646.7	255.1
77.5°	4956.6	5271.4	7664.9	12873.3	15294.5	14734.3	7787.6	1673.2	657.3	404.4	117.4
80°	1850.3	2057.3	3327.2	6551.9	8838.6	9070.2	3425.3	632.8	437.5	325.5	59.7
82.5°	484.5	539.9	1227.1	2921.7	4529.7	4741.0	1079.8	319.1	320.1	267.8	36.2
85°	154.7	177.2	383.1	1311.4	2134.2	1873.8	281.7	154.7	232.6	199.5	20.3
87.5°	19.2	24.5	121.7	308.3	470.6	261.4	43.8	45.9	99.2	110.9	11.7
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°	3751.9	3751.9	3751.9	3751.9	3751.9	3751.9	3751.9	3751.9	3751.9	3751.9	3751.9
2.5°	3760.4	3755.1	3756.1	3728.4	3710.3	3673.9	3636.7	3619.5	3601.5	3593.9	3601.5
5°	3779.6	3770.0	3742.3	3656.9	3566.2	3448.8	3338.9	3255.7	3151.1	3122.3	3152.2
7.5°	3809.5	3790.3	3709.1	3535.2	3333.5	3109.5	2857.6	2674.1	2523.7	2426.6	2461.8
10°	3853.3	3816.9	3653.7	3358.1	2997.4	2600.5	2243.0	1964.5	1767.1	1686.0	1682.7
12.5°	3926.8	3858.6	3585.4	3127.7	2586.6	2057.3	1588.8	1286.9	1126.8	1023.3	1021.2
15°	4008.0	3907.7	3499.0	2851.3	2108.6	1473.6	1023.3	793.9	690.4	657.3	653.0
17.5°	4107.2	3964.2	3386.9	2510.9	1608.1	976.4	668.0	601.9	597.6	594.3	594.3
20°	4232.0	4031.5	3242.9	2121.3	1140.7	652.0	567.7	572.0	574.1	569.8	570.9
22.5°	4377.2	4099.7	3071.0	1703.1	771.5	545.2	543.2	548.5	550.6	548.5	549.5
25°	4545.8	4178.7	2861.9	1264.5	557.0	517.6	522.9	530.3	535.6	535.6	535.6
27.5°	4754.9	4274.8	2610.1	882.5	481.2	488.7	503.7	517.6	525.0	527.2	527.2
30°	5027.0	4394.3	2308.1	605.0	437.5	450.3	478.1	504.7	518.6	520.7	521.8
32.5°	5370.7	4528.7	1958.1	447.1	400.2	409.8	439.6	484.5	511.1	515.4	515.4
35°	5764.4	4684.5	1581.4	389.5	373.5	376.7	400.2	451.3	498.3	510.0	511.1
37.5°	6195.5	4838.2	1202.6	363.9	351.1	351.1	368.1	411.9	467.4	503.7	508.0
40°	6597.8	4931.0	843.0	343.6	330.8	330.8	345.7	377.7	430.0	484.5	496.2
42.5°	6969.1	4963.0	586.9	324.4	311.6	314.8	327.6	353.2	392.6	447.1	457.8
45°	7351.1	4957.7	427.9	302.0	292.4	302.0	311.6	330.8	359.6	390.6	392.6
47.5°	7639.2	4912.9	339.4	280.7	274.2	287.0	295.6	308.3	324.4	322.2	322.2
50°	7909.2	4804.0	273.1	251.8	256.1	271.1	275.3	279.6	280.7	260.4	258.2
52.5°	8114.2	4634.4	218.7	220.9	237.9	252.9	248.6	242.2	231.6	207.0	202.7
55°	8182.4	4307.8	171.8	182.5	211.3	230.5	214.4	200.7	180.3	160.0	155.8
57.5°	8058.6	3886.3	139.8	142.0	178.2	194.2	176.1	160.0	137.7	120.5	117.4
60°	7796.1	3417.8	115.2	106.7	137.7	151.6	139.8	123.8	103.5	90.7	89.6
62.5°	7275.4	2918.4	94.9	83.2	104.6	116.4	108.8	97.1	80.0	71.4	70.4
65°	6180.5	2334.7	76.9	67.3	81.1	90.7	84.3	75.7	63.0	56.5	55.5
67.5°	4314.2	1578.2	63.0	55.5	64.0	71.4	66.1	61.9	50.1	49.1	50.1
70°	2080.8	760.8	52.3	44.8	50.1	55.5	53.4	50.1	48.0	55.5	64.0
72.5°	596.5	255.1	41.6	37.4	40.5	43.8	45.9	44.8	52.3	67.3	77.9
73°	458.9	206.0	39.5	35.2	38.4	42.7	44.8	43.8	53.4	68.3	77.9
75°	196.4	99.2	29.9	28.8	32.0	37.4	39.5	39.5	53.4	69.4	74.7
77.5°	88.6	53.4	19.2	22.5	27.8	29.9	33.1	33.1	42.7	53.4	53.4
80°	50.1	28.8	14.9	17.0	20.3	20.3	20.3	18.2	19.2	21.3	23.5
82.5°	32.0	19.2	11.7	13.9	12.8	10.7	8.6	8.6	7.5	8.6	10.7
85°	18.2	10.7	10.7	8.6	5.3	4.3	5.3	4.3	1.0	0.0	1.0
87.5°	10.7	6.4	3.2	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)