

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: P382971

Luminaire Tested: **GLEON-SA3B-735-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382971  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3B-735-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16252.7 lumens  
Efficiency: N/A  
Efficacy: 131.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

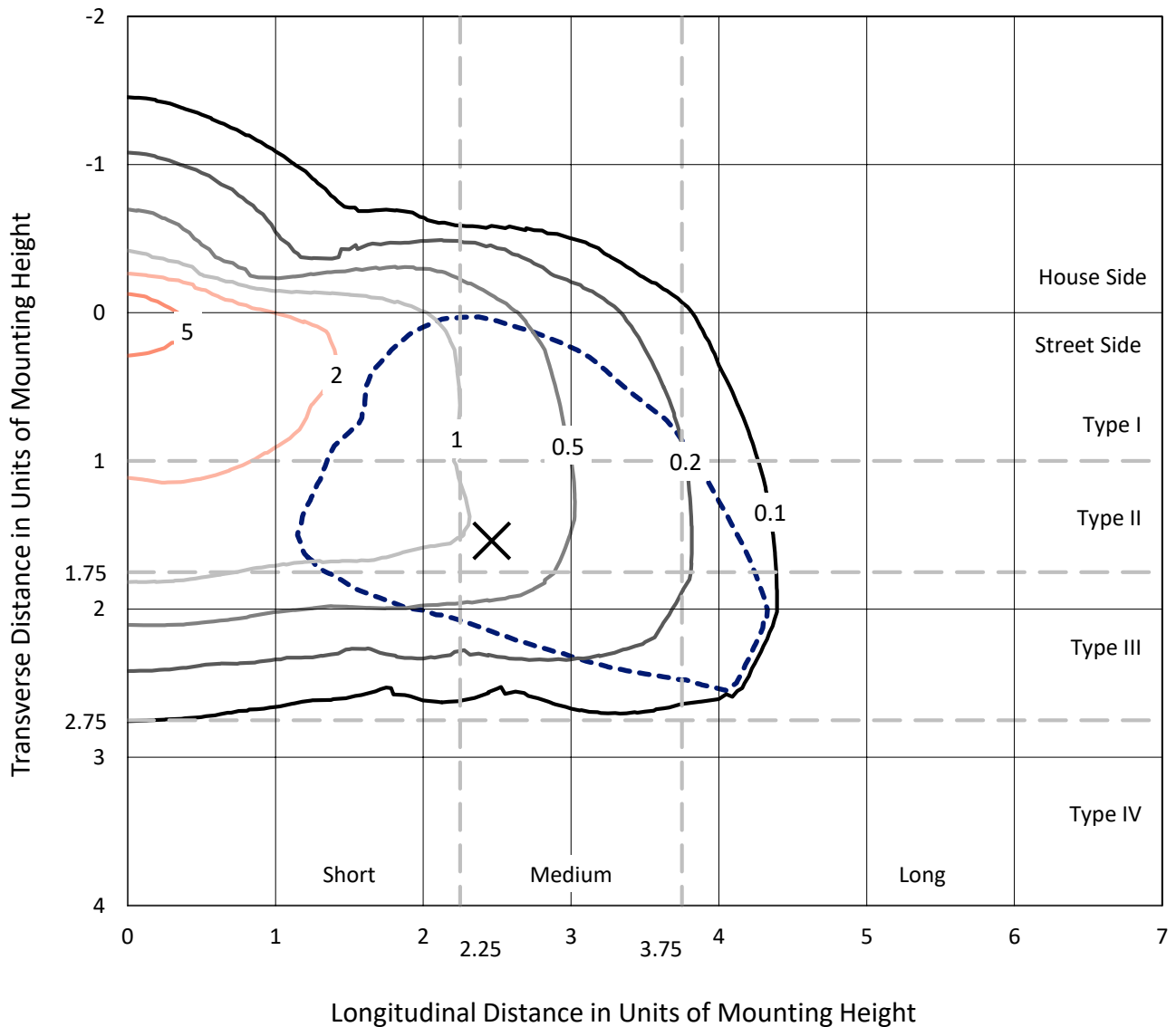
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

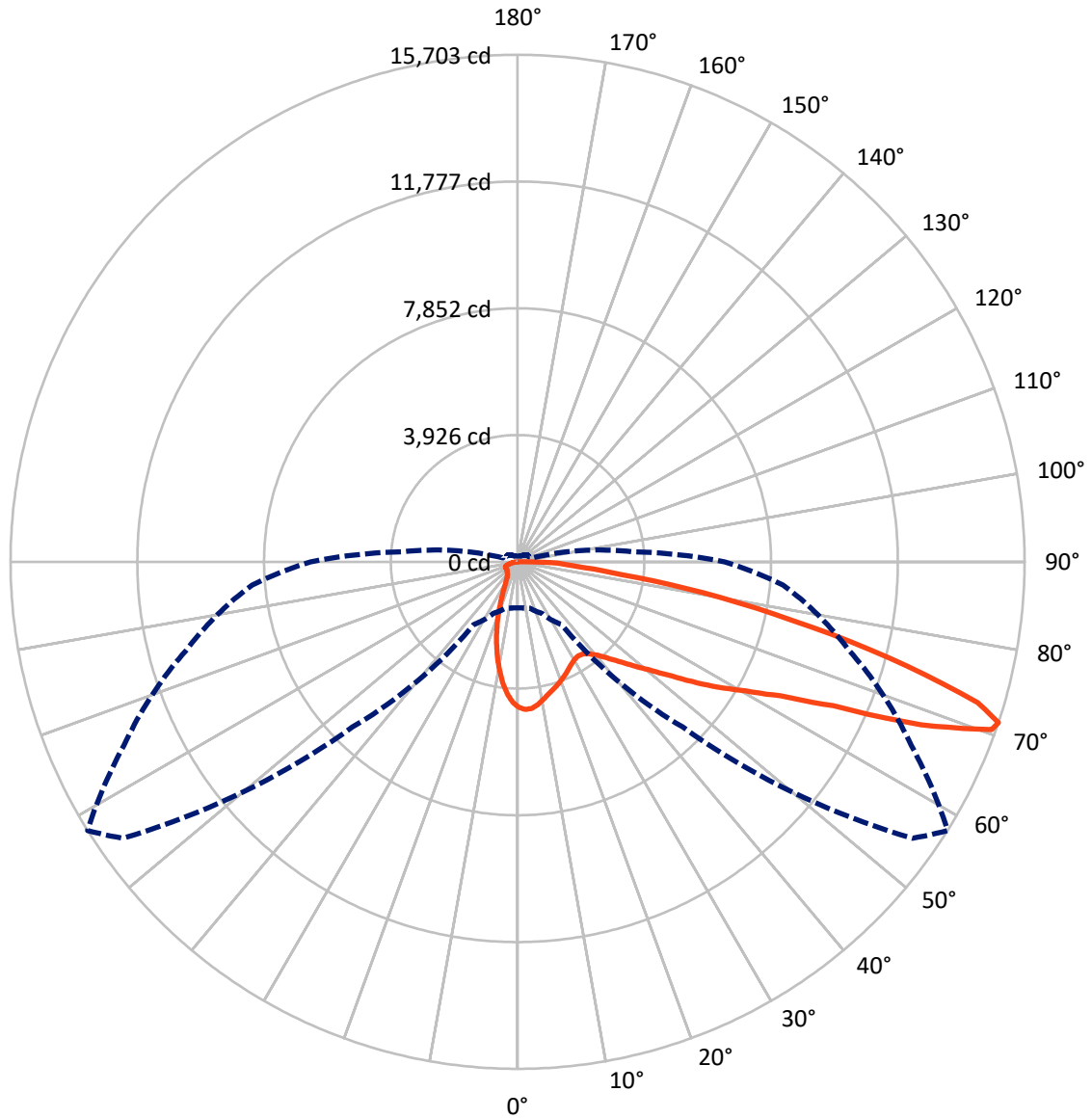
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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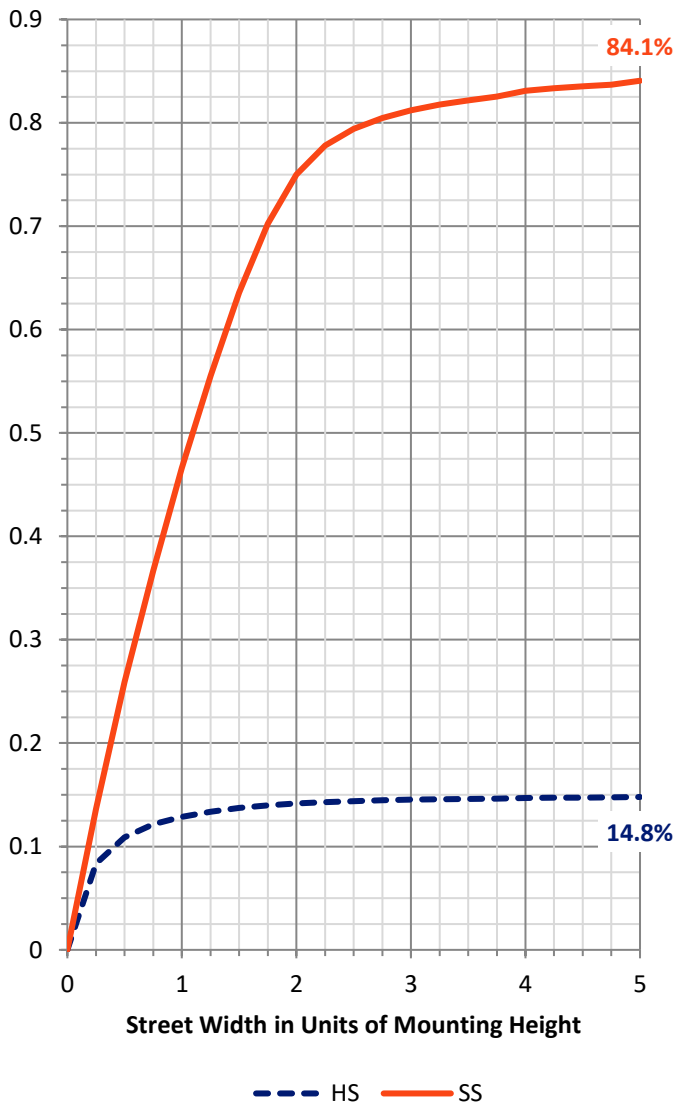
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2429.9	0.0	2429.9
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	13822.8	0.0	13822.8
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	16252.7	0.0	16252.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	388.5	2.4
10°-20°	863.8	5.3
20°-30°	1097.8	6.8
30°-40°	1398.4	8.6
40°-50°	1983.0	12.2
50°-60°	3068.8	18.9
60°-70°	4177.8	25.7
70°-80°	2787.1	17.1
80°-90°	487.3	3.0
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°	16252.7	100.0
0°-180°	16252.7	100.0

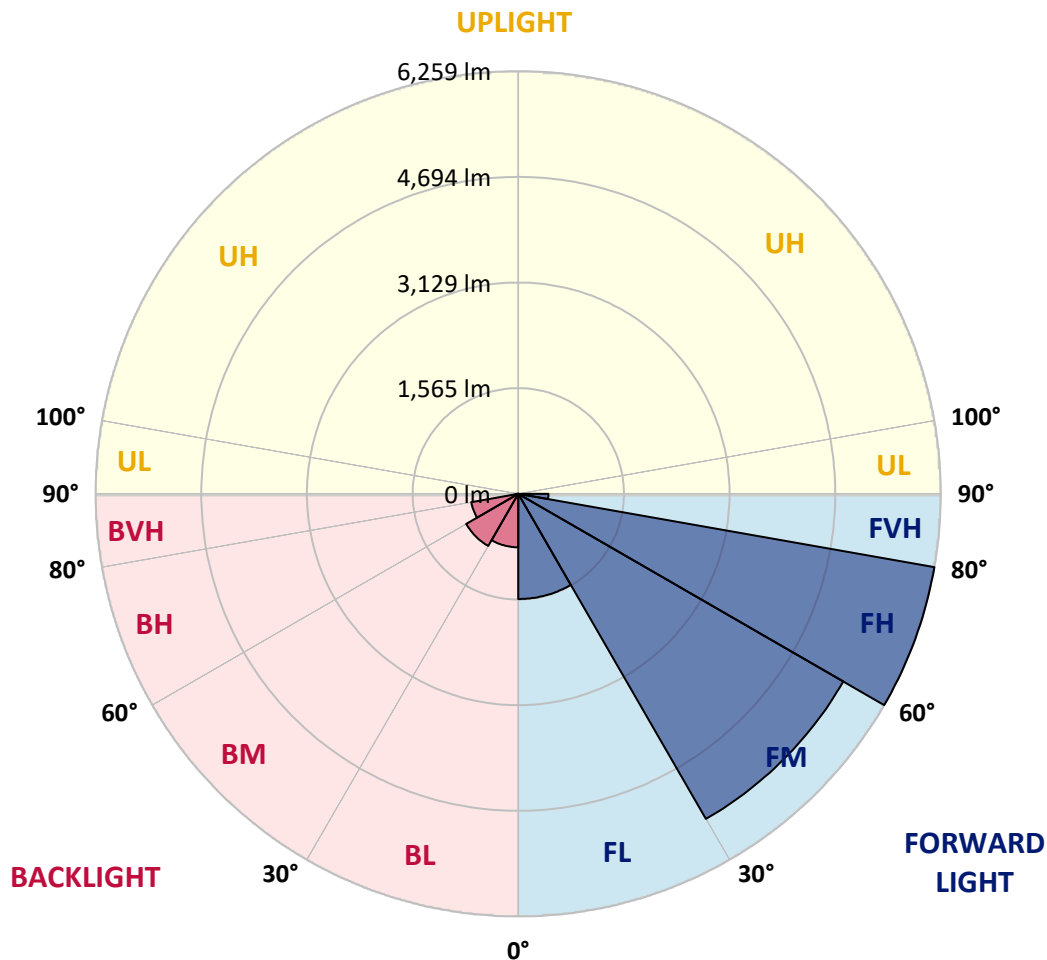


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1558.1	9.6			
FM (30°-60°)	5559.2	34.2			
FH (60°-80°)	6258.7	38.5			G3/7500
FVH (80°-90°)	446.8	2.7			G3/500
BL (0°-30°)	792.1	4.9	B2/1000		
BM (30°-60°)	891.1	5.5	B1/1000		
BH (60°-80°)	706.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	40.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1
2.5°	4622.5	4616.3	4618.6	4614.0	4603.3	4592.5	4576.7	4579.5	4557.4	4524.6	4483.8
5°	4535.3	4533.1	4550.1	4559.7	4567.7	4561.4	4556.9	4562.5	4530.3	4484.9	4414.2
7.5°	4352.5	4327.6	4349.1	4381.3	4411.9	4435.2	4465.7	4469.7	4449.3	4401.7	4308.9
10°	4092.7	4068.8	4100.6	4151.0	4212.1	4267.6	4329.3	4340.6	4344.6	4301.5	4188.9
12.5°	3823.2	3805.0	3836.8	3907.5	4008.8	4094.3	4192.8	4209.8	4245.0	4216.1	4077.9
15°	3582.0	3575.2	3613.7	3683.3	3800.0	3930.8	4072.8	4103.9	4163.4	4153.8	3991.3
17.5°	3373.6	3371.9	3401.4	3474.4	3603.5	3768.8	3953.4	4006.0	4094.3	4105.6	3920.0
20°	3218.5	3215.1	3235.5	3289.3	3422.3	3609.7	3824.3	3896.8	4024.1	4063.8	3846.4
22.5°	3135.3	3134.8	3135.3	3160.7	3269.5	3443.8	3698.6	3786.9	3955.6	4030.3	3764.8
25°	3121.2	3119.5	3107.0	3104.2	3165.9	3305.1	3574.1	3671.4	3890.5	4007.1	3687.3
27.5°	3157.9	3160.2	3143.8	3117.1	3129.6	3214.0	3465.9	3570.1	3838.4	4002.6	3633.5
30°	3234.3	3233.2	3219.1	3191.3	3167.0	3180.0	3388.9	3493.1	3803.3	4022.4	3596.7
32.5°	3318.7	3325.0	3322.1	3306.8	3270.6	3218.5	3365.7	3467.6	3793.2	4070.0	3580.9
35°	3420.1	3426.9	3447.2	3459.1	3416.6	3332.9	3415.5	3503.8	3822.6	4159.5	3606.3
37.5°	3516.3	3533.8	3591.0	3641.4	3605.2	3511.7	3548.0	3610.9	3913.7	4300.4	3674.9
40°	3627.3	3642.5	3736.0	3843.0	3837.3	3740.5	3761.4	3803.3	4074.5	4502.5	3798.9
42.5°	3736.5	3767.1	3902.4	4054.1	4097.7	4012.3	4045.6	4067.7	4301.0	4770.3	4015.1
45°	3882.0	3914.8	4102.8	4285.7	4387.6	4339.4	4392.7	4401.2	4585.7	5134.9	4329.3
47.5°	4102.3	4139.6	4358.7	4550.6	4706.4	4711.4	4799.1	4795.8	4941.3	5552.1	4725.0
50°	4445.3	4499.1	4678.6	4858.0	5047.1	5152.5	5269.7	5253.2	5367.6	5996.6	5180.8
52.5°	4894.8	4919.8	5052.8	5185.3	5420.2	5656.4	5824.5	5809.8	5851.1	6453.5	5698.2
55°	5360.8	5379.5	5434.4	5506.8	5822.7	6207.7	6563.3	6540.0	6435.3	6927.8	6209.4
57.5°	5779.7	5817.7	5855.6	5885.6	6228.1	6784.1	7319.1	7320.8	7069.4	7439.6	6737.6
60°	5844.8	5878.3	6129.0	6365.7	6921.7	7552.9	8128.1	8111.1	7725.6	7995.0	7326.4
62.5°	5166.6	5241.9	5660.8	6290.4	7589.7	8959.2	9160.2	9139.2	8510.2	8679.5	8012.1
65°	3702.5	3788.0	4293.6	5239.7	7265.9	10508.7	11022.8	10740.8	9580.2	9521.3	8814.9
67.5°	2136.0	2156.4	2375.5	3135.3	5532.4	10589.6	13864.2	13469.6	11241.8	10476.5	9207.7
70°	1579.5	1579.0	1631.0	1929.4	2993.7	8642.7	15215.6	15569.4	12991.3	10790.7	8652.3
71°	1428.3	1430.1	1488.4	1756.2	2371.0	7234.1	14928.6	15703.1	13452.1	10635.6	8250.3
72.5°	1221.7	1227.4	1308.4	1575.0	1994.5	4988.8	13692.2	14901.4	13670.6	10252.8	7621.4
75°	926.8	939.8	1051.9	1327.6	1822.9	2530.1	10049.0	11899.1	12144.3	9046.9	5663.2
77.5°	661.2	675.9	802.8	1116.5	1733.0	1906.8	6729.7	8679.5	8937.1	5797.9	2554.4
80°	417.8	435.4	531.1	888.2	1628.3	1810.6	4229.0	5834.1	4873.3	1855.3	649.9
82.5°	245.2	258.7	329.5	580.3	1329.9	1743.7	2488.2	3233.8	1896.5	560.5	295.5
85°	142.1	148.3	205.5	369.7	965.8	1645.8	1828.1	1807.7	823.2	274.0	139.8
87.5°	66.2	73.6	121.8	193.0	536.1	1192.8	1444.8	1248.4	511.8	128.6	65.7
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°	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1	4503.1
2.5°	4464.1	4454.4	4414.2	4378.6	4341.2	4292.5	4238.7	4231.9	4199.0	4205.3	4194.0
5°	4375.7	4351.4	4254.6	4166.8	4063.2	3970.3	3869.6	3823.2	3756.4	3751.8	3734.9
7.5°	4249.4	4204.2	4054.1	3887.7	3721.3	3562.7	3405.9	3302.9	3197.5	3152.8	3148.9
10°	4107.4	4030.3	3809.6	3563.3	3323.2	3091.7	2867.5	2701.6	2552.2	2481.4	2478.6
12.5°	3972.6	3858.8	3555.9	3220.7	2892.5	2592.4	2284.9	2067.0	1879.6	1816.7	1790.2
15°	3858.3	3698.1	3309.1	2880.5	2481.9	2065.2	1715.4	1486.1	1312.9	1252.8	1241.6
17.5°	3747.2	3541.2	3056.0	2536.9	2055.1	1597.0	1246.6	1076.2	984.0	959.6	959.0
20°	3636.9	3379.8	2791.7	2185.3	1642.4	1194.5	958.5	882.1	850.9	848.1	843.5
22.5°	3511.7	3208.9	2513.7	1832.6	1281.7	939.2	814.6	784.1	780.2	790.3	790.3
25°	3394.6	3039.1	2231.7	1487.2	996.9	783.5	727.4	721.3	732.0	750.2	751.9
27.5°	3285.3	2875.4	1956.6	1180.4	798.8	690.1	666.9	674.3	693.5	714.5	715.1
30°	3195.3	2720.9	1689.4	930.2	674.8	620.5	616.5	631.2	652.2	668.6	672.6
32.5°	3125.6	2589.0	1431.2	747.8	593.9	568.4	571.8	584.3	597.3	606.3	612.6
35°	3093.4	2475.8	1192.8	630.7	542.3	528.2	532.8	539.6	545.2	551.9	557.1
37.5°	3099.1	2388.0	980.0	557.6	507.8	500.4	500.4	500.4	500.4	503.9	504.4
40°	3151.7	2337.6	806.7	511.2	484.6	476.7	470.4	464.8	460.3	462.5	461.4
42.5°	3286.4	2333.1	679.9	481.8	466.0	452.9	440.4	432.5	426.8	429.2	430.3
45°	3515.2	2389.7	594.4	460.8	448.4	428.6	412.7	404.2	400.3	407.6	408.8
47.5°	3811.2	2513.1	542.3	445.6	432.0	406.0	388.9	381.0	382.1	392.9	395.7
50°	4192.8	2713.5	517.5	436.0	420.7	386.7	369.1	362.4	365.7	381.0	384.4
52.5°	4611.8	3002.3	520.3	433.1	413.3	372.5	353.8	345.9	351.6	365.7	368.5
55°	5095.3	3349.3	567.3	437.1	402.5	363.5	341.4	327.8	332.3	345.3	347.7
57.5°	5632.5	3746.7	661.9	436.0	388.9	355.0	328.4	308.0	311.4	319.3	321.6
60°	6191.9	4226.8	808.5	439.3	382.7	344.8	310.9	285.3	284.2	291.0	292.1
62.5°	6863.4	4782.2	976.0	441.6	386.7	331.7	287.6	262.7	259.2	261.0	262.1
65°	7555.1	5184.2	913.2	432.5	399.2	321.0	267.3	240.6	234.4	233.3	233.8
67.5°	7576.6	4753.3	640.3	414.4	404.2	315.3	251.9	221.9	211.7	207.7	207.2
70°	6794.8	3861.6	498.8	395.2	383.8	306.3	237.8	206.6	191.3	185.1	184.5
71°	6413.2	3554.8	472.8	385.6	368.5	297.3	231.6	199.8	184.0	177.2	176.1
72.5°	5814.8	3186.8	441.0	370.3	339.1	274.0	219.7	190.2	173.8	165.9	164.1
75°	4173.1	2084.0	378.8	330.0	280.8	218.5	192.5	170.9	156.8	147.2	146.1
77.5°	1607.9	829.4	286.5	274.6	215.1	170.9	158.5	147.7	137.6	127.9	127.3
80°	497.1	370.8	208.9	206.6	155.7	127.3	123.4	120.5	116.6	106.5	104.1
82.5°	265.5	212.9	143.8	133.6	101.9	85.0	89.4	90.5	91.1	80.4	79.3
85°	126.8	112.6	81.0	75.8	59.4	47.6	55.0	59.4	60.0	49.3	45.8
87.5°	60.6	58.9	37.9	28.9	22.1	15.8	19.3	23.8	26.1	18.7	16.4
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)