

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: P383595

Luminaire Tested: **GLEON-SA8D-735-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383595  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA8D-735-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 56846.8 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

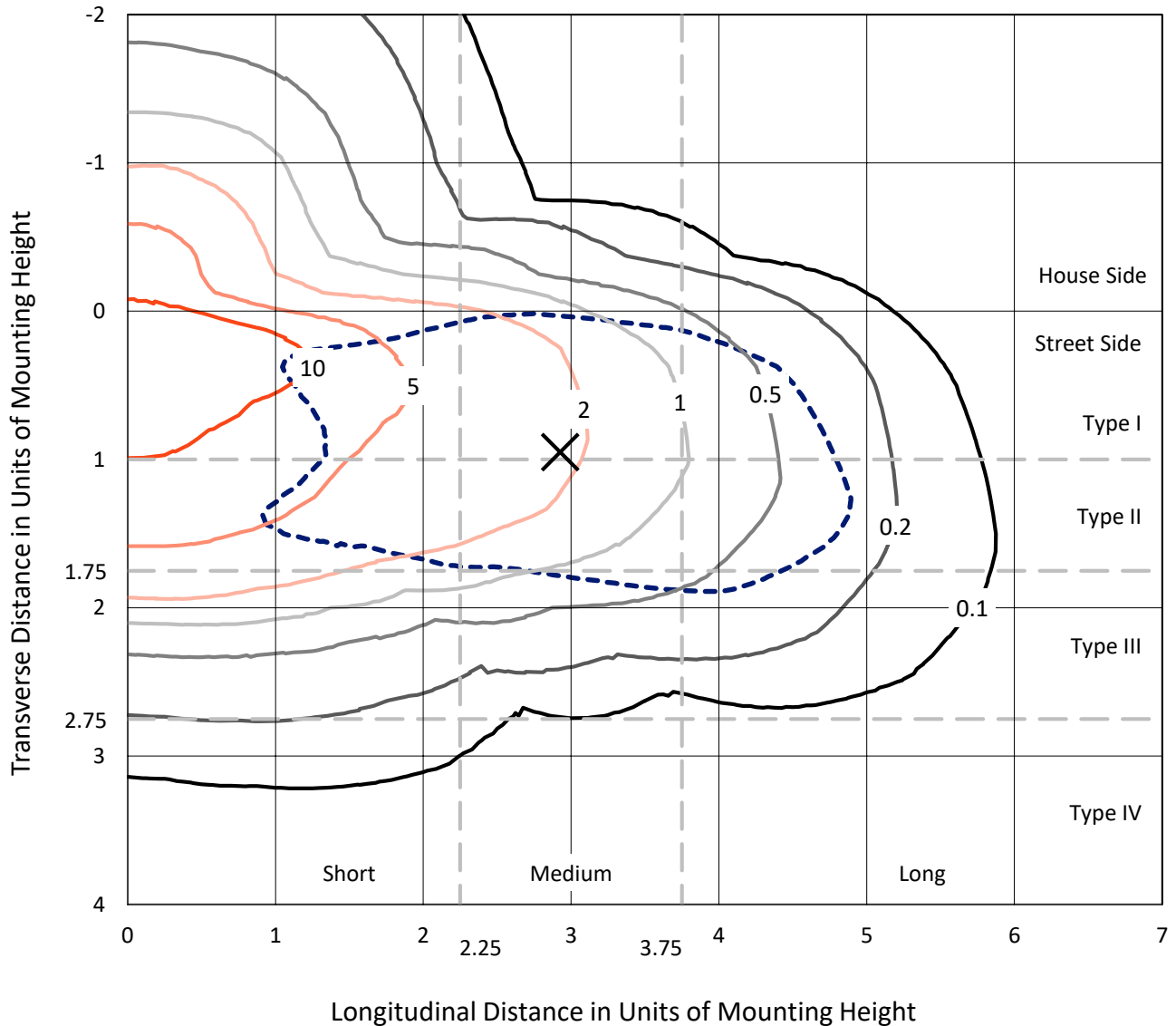
Input Watts (W): 511  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

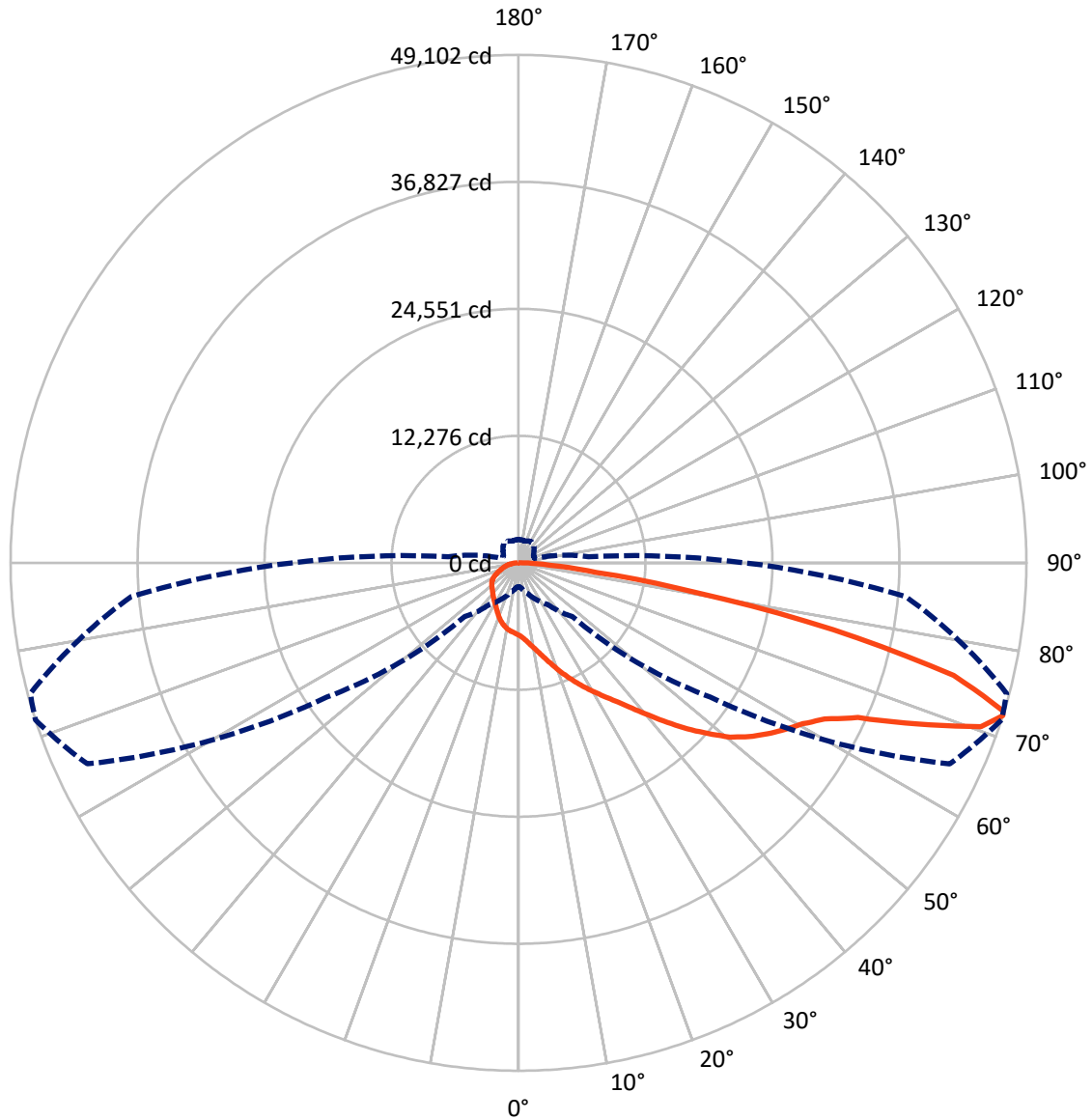
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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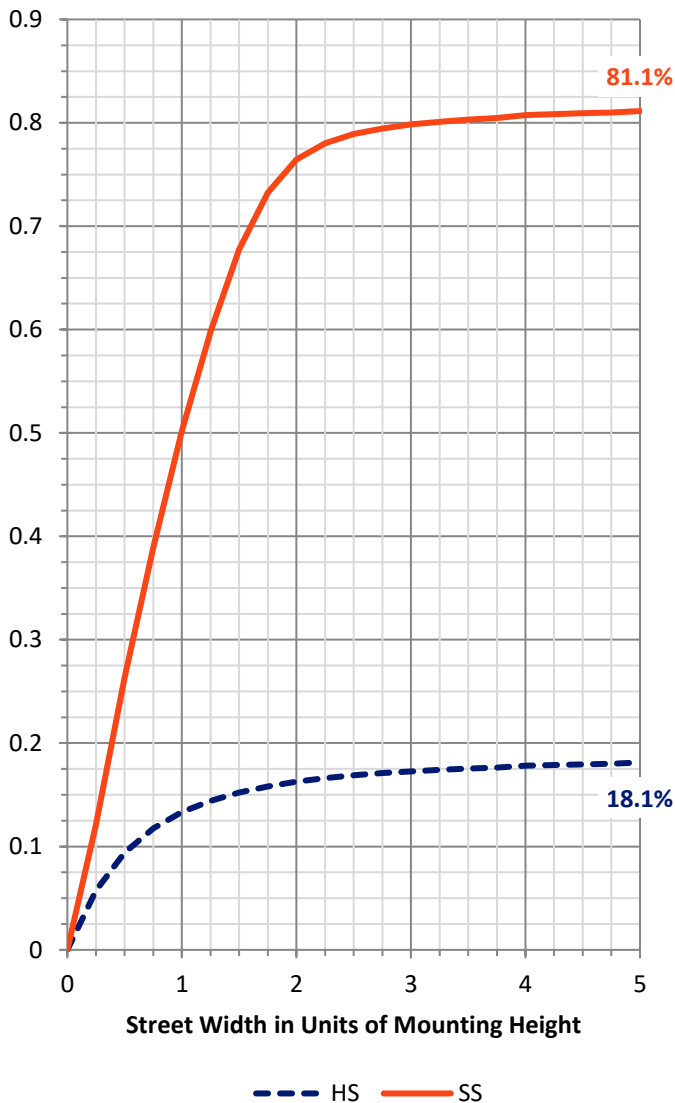
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10545.5	0.0	10545.5
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	46301.3	0.0	46301.3
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	56846.8	0.0	56846.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	700.8	1.2
10°-20°	2264.6	4.0
20°-30°	3968.3	7.0
30°-40°	5883.7	10.4
40°-50°	8605.4	15.1
50°-60°	11840.9	20.8
60°-70°	13182.5	23.2
70°-80°	8932.4	15.7
80°-90°	1468.1	2.6
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°	56846.8	100.0
0°-180°	56846.8	100.0

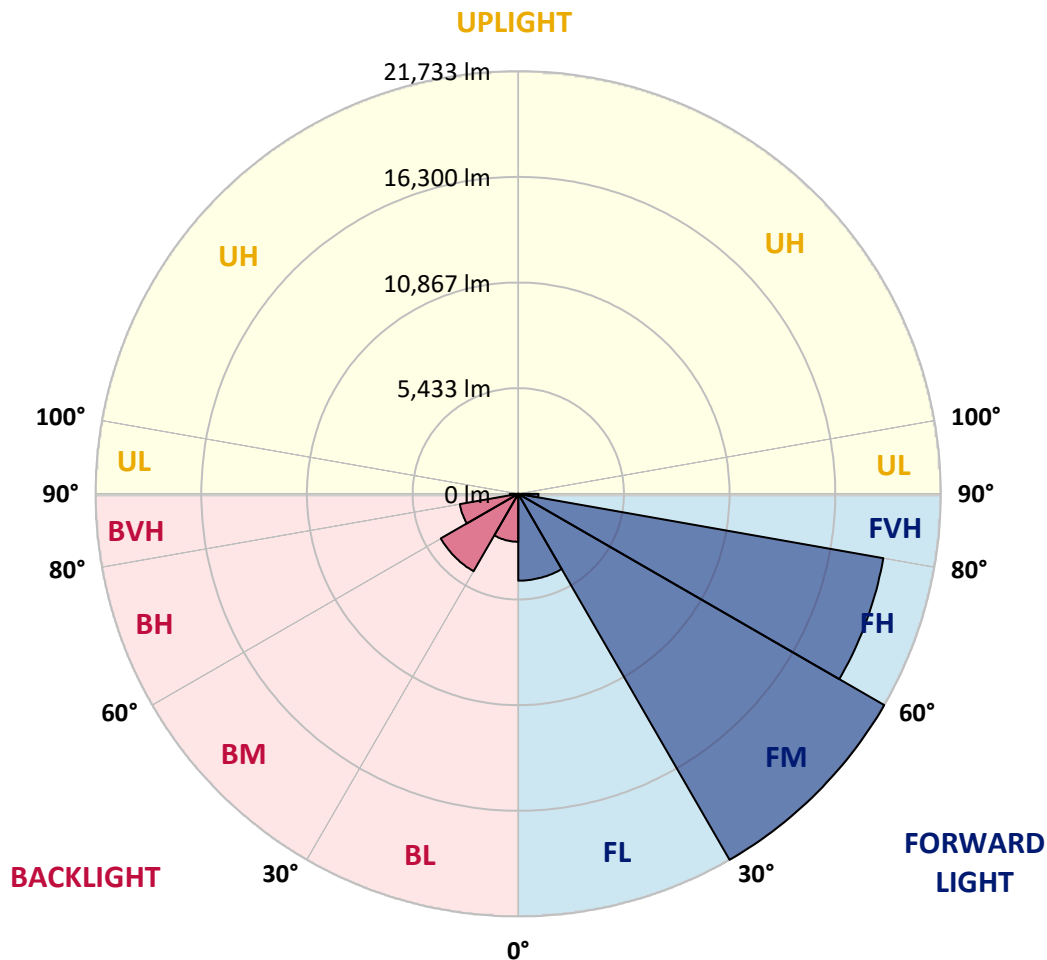


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4468.5	7.9			
FM (30°-60°)	21733.2	38.2			
FH (60°-80°)	19064.0	33.5			G5
FVH (80°-90°)	1035.6	1.8			G5
BL (0°-30°)	2465.1	4.3	B3/2500		
BM (30°-60°)	4596.8	8.1	B3/5000		
BH (60°-80°)	3051.0	5.4	B4/5000		G4/5000
BVH (80°-90°)	432.5	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6
2.5°	7725.7	7714.0	7672.9	7672.9	7594.5	7528.0	7402.7	7318.5	7218.7	7183.5	7066.1
5°	8473.4	8477.3	8426.4	8391.2	8275.7	8134.7	7921.4	7727.7	7533.9	7455.5	7214.8
7.5°	9101.7	9093.9	9080.2	9050.8	8943.1	8798.3	8510.6	8222.9	7937.1	7819.6	7404.7
10°	9505.0	9522.6	9534.3	9548.0	9503.0	9399.2	9127.1	8776.8	8402.9	8242.4	7631.7
12.5°	9708.5	9739.8	9794.6	9888.6	9962.9	9951.2	9753.5	9381.6	8937.3	8735.7	7915.5
15°	9827.9	9869.0	9955.1	10123.4	10332.9	10452.2	10399.4	10062.8	9567.6	9319.0	8262.0
17.5°	9902.3	9935.5	10068.6	10293.7	10604.9	10922.0	11061.0	10779.1	10280.0	9996.3	8659.4
20°	9953.1	9978.6	10145.0	10409.2	10812.5	11317.5	11705.0	11634.6	11064.9	10697.0	9074.3
22.5°	10066.7	10088.2	10246.7	10513.0	10959.3	11611.0	12325.5	12431.1	11892.9	11476.0	9518.6
25°	10383.8	10383.8	10516.9	10702.8	11121.7	11865.5	12850.0	13317.9	12738.4	12253.0	9929.6
27.5°	10988.6	10982.8	11031.7	11096.2	11413.3	12123.9	13317.9	14100.8	13615.4	13084.9	10329.0
30°	11705.0	11744.1	11750.0	11718.7	11867.5	12446.9	13750.4	14926.8	14498.1	13926.6	10738.0
32.5°	12626.9	12652.4	12623.0	12519.3	12497.7	12904.8	14175.2	15792.0	15453.3	14805.5	11111.9
35°	13797.4	13748.4	13656.5	13445.1	13243.4	13517.5	14660.6	16657.1	16525.9	15868.3	11626.7
37.5°	15052.0	15054.0	14940.5	14461.0	14183.0	14300.5	15330.0	17637.7	17823.7	17132.7	12286.4
40°	16058.1	16111.0	16181.4	15551.2	15191.0	15353.5	16181.4	18775.0	19358.2	18632.1	13145.6
42.5°	16760.9	16821.5	17021.1	16625.8	16252.0	16553.3	17183.6	19988.5	21080.7	20362.4	14151.7
45°	17504.6	17537.9	17678.8	17508.5	17269.8	17949.0	18313.0	21245.2	22903.0	22206.2	15277.2
47.5°	18287.6	18322.8	18467.7	18354.1	18228.9	19252.6	19491.3	22429.3	24649.0	24232.1	16479.0
50°	19254.5	19278.0	19415.0	19209.5	19248.7	20235.2	20544.4	23515.7	26479.1	26052.4	17684.7
52.5°	20573.8	20579.7	20769.5	20583.6	20399.6	20955.4	21450.7	24539.4	27913.8	27712.2	18890.5
55°	21607.2	21669.9	22292.3	22253.2	22147.5	21609.2	22208.2	25514.2	29194.0	29289.9	20170.5
57.5°	20947.6	21192.3	22452.8	23341.5	24206.6	23235.8	23231.9	26612.2	30384.0	30838.1	21577.9
60°	18346.3	18679.0	20536.6	22507.7	25214.7	26066.1	25357.6	27953.0	31585.9	32372.7	23341.5
62.5°	13102.6	13650.6	16167.8	19315.2	23832.8	27941.3	29683.3	30080.7	33220.3	34150.0	25633.6
65°	6623.7	7038.7	9148.7	12940.1	19041.2	26715.9	34384.9	34739.2	36060.4	36886.4	29162.7
67.5°	4024.3	4180.9	5210.5	7197.2	11673.7	20810.6	35919.5	42504.0	41556.6	41995.1	34195.1
70°	2965.4	3080.9	3722.9	4779.9	6713.8	12211.9	31210.0	48045.3	47422.9	47373.9	37914.0
72°	2309.7	2393.9	2961.5	3861.8	4909.1	7326.3	22621.1	45999.8	49102.2	48855.6	37573.4
72.5°	2190.3	2264.7	2781.4	3634.8	4638.9	6641.3	20338.9	44619.9	48980.9	48869.4	37133.0
75°	1724.4	1777.3	2059.1	2810.8	3630.9	3767.9	11145.2	34578.7	43451.4	45258.0	33398.4
77.5°	1426.9	1434.8	1583.5	2045.4	2830.3	2663.9	5474.7	23991.4	31114.2	33100.9	23658.6
80°	1162.7	1172.4	1243.0	1434.8	2141.3	1971.1	2599.4	13795.5	17420.5	17442.0	11250.9
82.5°	925.9	927.8	1006.1	1049.1	1538.5	1409.3	1489.5	6476.9	7612.1	7322.4	4043.9
85°	651.8	638.1	982.6	861.2	1006.1	904.3	822.1	2564.2	3147.4	3010.4	1266.4
87.5°	217.2	225.1	436.5	557.8	587.2	512.8	366.0	982.6	1188.1	1178.3	401.2
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°	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6
2.5°	7028.9	6966.2	6874.3	6772.4	6692.2	6610.0	6549.3	6518.0	6482.7	6453.4	6488.6
5°	7103.2	6985.8	6790.1	6598.2	6457.3	6332.0	6242.0	6195.1	6151.9	6122.6	6126.5
7.5°	7224.6	7034.8	6705.9	6426.0	6230.3	6095.2	6003.2	5971.9	5944.5	5936.7	5946.4
10°	7353.8	7073.9	6594.3	6222.5	5999.3	5887.8	5846.6	5868.2	5887.8	5905.4	5924.9
12.5°	7500.6	7109.1	6431.9	5983.6	5793.8	5750.7	5791.8	5885.8	5954.3	5995.3	6020.9
15°	7692.4	7140.4	6244.0	5744.9	5617.6	5666.5	5805.5	5968.0	6087.4	6163.7	6175.4
17.5°	7868.6	7138.4	6003.2	5504.0	5474.7	5617.6	5827.0	6056.1	6216.6	6324.2	6345.8
20°	8050.6	7085.6	5723.3	5269.2	5329.8	5564.8	5836.8	6112.8	6306.6	6431.9	6461.2
22.5°	8220.9	6993.6	5416.0	5055.9	5208.6	5494.3	5799.6	6079.6	6273.3	6375.1	6406.4
25°	8336.4	6833.1	5104.8	4875.8	5100.9	5408.2	5678.2	5903.4	6048.3	6099.1	6106.9
27.5°	8395.1	6623.7	4811.2	4719.2	4989.3	5267.2	5453.2	5564.8	5605.9	5602.0	5594.1
30°	8402.9	6347.8	4558.7	4592.0	4860.1	5059.8	5147.8	5126.3	5073.5	4983.4	4991.2
32.5°	8377.5	6036.5	4347.3	4470.6	4695.7	4807.3	4811.2	4707.5	4566.5	4423.6	4384.5
35°	8385.3	5731.2	4161.3	4333.6	4496.0	4545.0	4499.9	4347.3	4155.4	3971.5	3932.3
37.5°	8471.4	5464.9	4000.8	4175.0	4274.9	4286.6	4222.1	4061.5	3920.6	3740.5	3724.9
40°	8677.0	5275.1	3848.1	3996.9	4053.7	4059.6	3967.6	3854.0	3865.7	3769.9	3767.9
42.5°	9046.9	5192.9	3713.1	3811.0	3846.2	3857.9	3787.5	3715.1	3816.8	3754.2	3732.7
45°	9524.5	5212.5	3599.6	3628.9	3693.5	3748.4	3705.2	3617.2	3656.3	3384.3	3294.2
47.5°	10076.5	5337.7	3509.5	3472.3	3583.9	3687.6	3621.1	3488.0	3349.0	3079.0	3028.0
50°	10722.4	5531.5	3427.3	3317.7	3464.5	3605.5	3538.9	3349.0	3139.6	3008.4	2990.8
52.5°	11395.7	5768.3	3345.1	3147.4	3313.8	3542.8	3509.5	3317.7	3059.4	2930.2	2906.7
55°	12159.1	6007.1	3241.4	2949.7	3151.3	3513.4	3495.8	3204.2	2998.7	2926.3	2908.7
57.5°	13108.5	6279.2	3104.4	2744.2	2998.7	3407.8	3352.9	3135.7	2936.1	2881.2	2875.3
60°	14345.5	6680.5	2906.7	2525.0	2812.7	3245.3	3233.6	3035.8	2836.2	2797.1	2789.2
62.5°	16201.0	7344.0	2634.6	2305.8	2605.3	2969.3	3077.0	2900.8	2730.6	2728.6	2732.5
65°	19078.4	8342.3	2339.0	2114.0	2395.8	2736.4	2895.0	2761.9	2622.9	2662.0	2667.9
67.5°	22413.7	9170.2	2049.3	1926.1	2182.4	2515.2	2730.6	2622.9	2480.0	2581.8	2583.7
70°	23523.5	8430.3	1794.9	1740.1	1961.3	2301.9	2552.3	2470.2	2325.3	2427.1	2417.4
72°	21891.1	6805.7	1630.5	1599.2	1794.9	2125.7	2393.9	2327.3	2184.4	2252.9	2227.5
72.5°	21376.3	6488.6	1589.4	1563.9	1749.9	2080.7	2352.7	2292.1	2149.2	2207.9	2184.4
75°	19068.6	5635.2	1366.2	1372.1	1526.7	1861.4	2121.8	2102.2	1955.4	1961.3	1953.5
77.5°	13830.7	4132.0	1150.9	1190.1	1299.7	1636.4	1888.8	1877.1	1716.6	1687.2	1681.4
80°	6418.2	2108.1	937.6	955.2	1068.7	1368.2	1610.9	1595.3	1466.1	1428.9	1407.4
82.5°	2198.1	1002.2	704.6	716.4	828.0	1102.0	1397.5	1387.7	1280.1	1207.7	1162.7
85°	784.9	499.1	493.3	481.5	591.2	867.1	1217.4	1164.6	1006.1	857.3	853.4
87.5°	254.5	213.3	254.5	252.5	344.5	587.2	884.7	753.6	730.1	606.8	595.1
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)