

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: P522930

Luminaire Tested: **GALN-SA9D-730-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522930  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-730-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 63915 lumens  
Efficiency: N/A  
Efficacy: 115.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

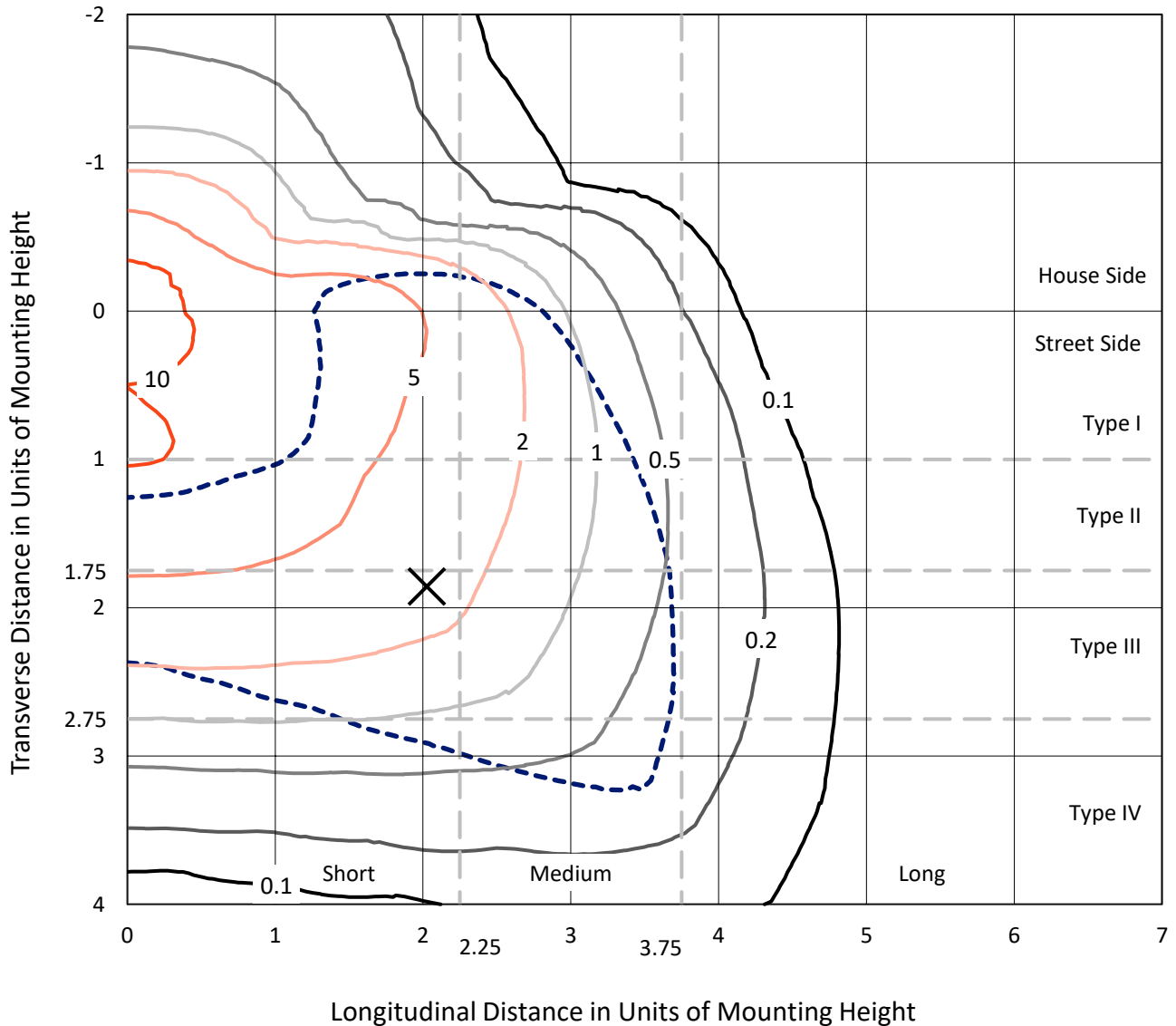
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

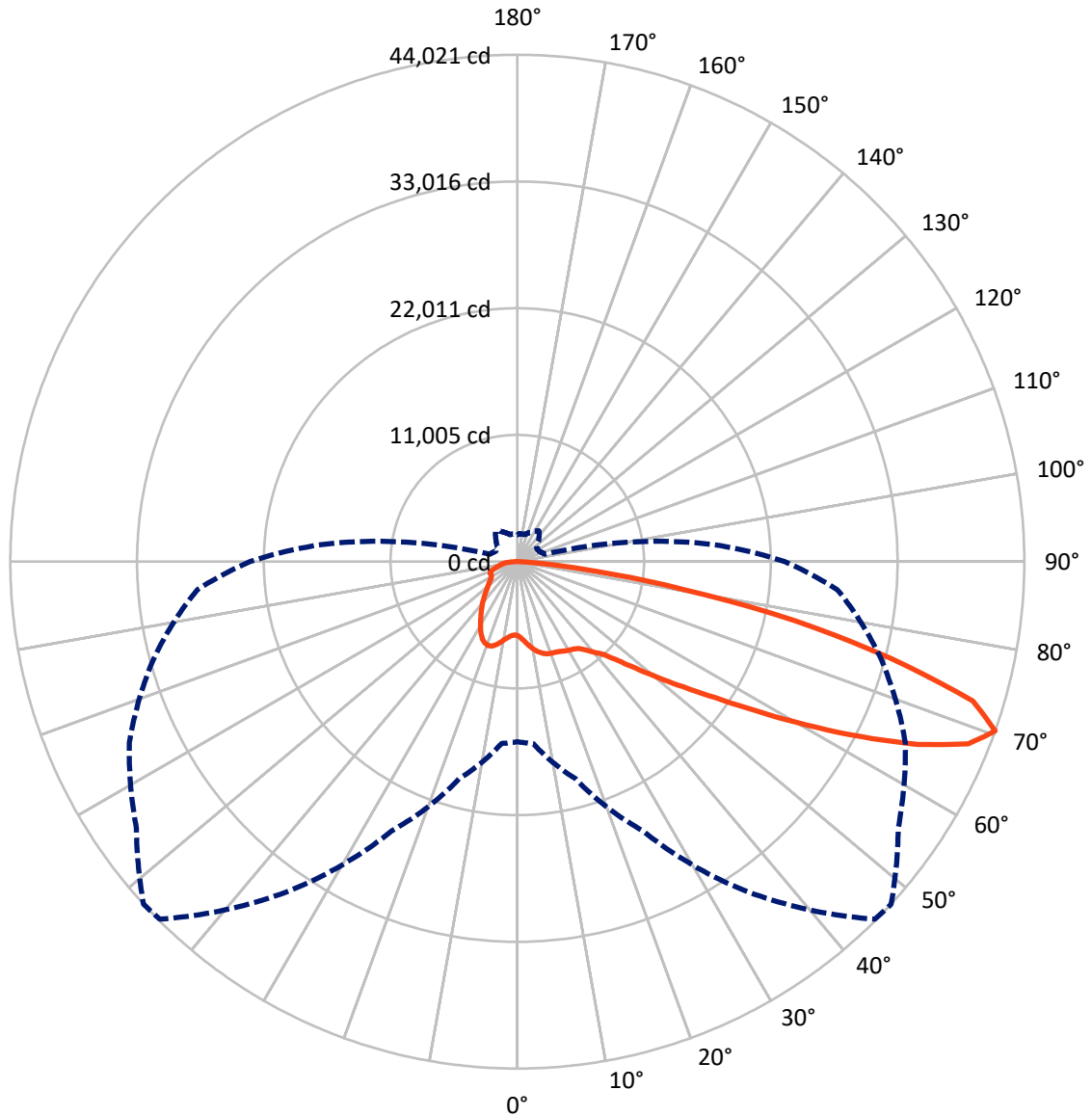
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical



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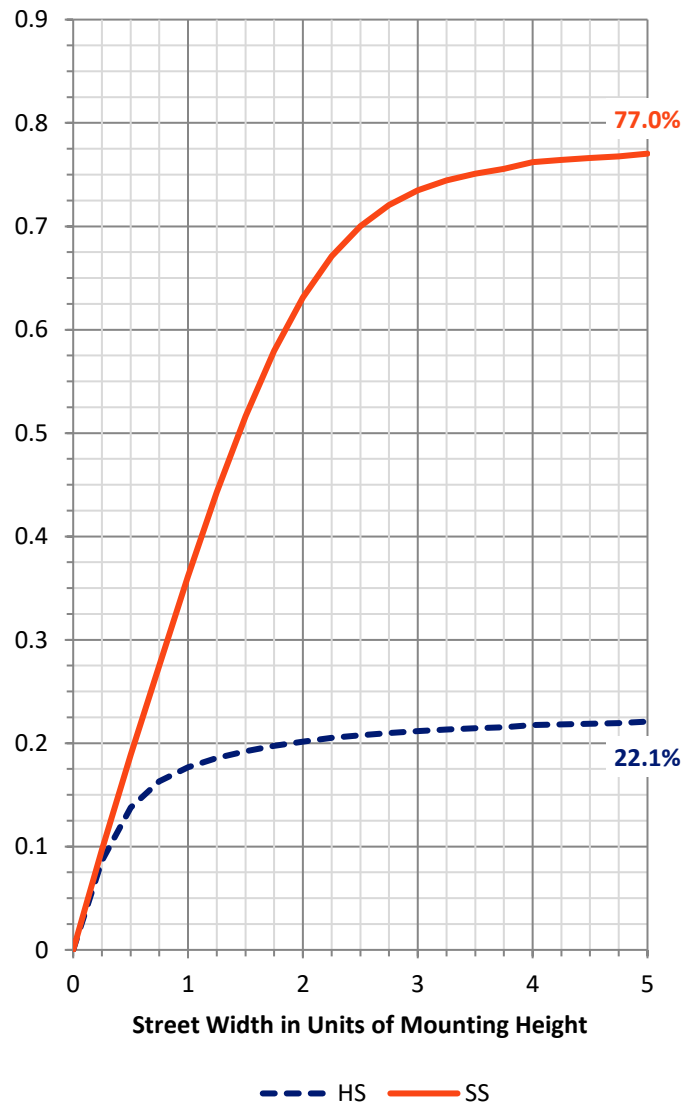
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14471.6	0.0	14471.6
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	49443.4	0.0	49443.4
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	63915.0	0.0	63915.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	661.4	1.0
10°-20°	2211.1	3.5
20°-30°	3677.0	5.8
30°-40°	5211.6	8.2
40°-50°	7693.4	12.0
50°-60°	13325.3	20.8
60°-70°	18822.3	29.4
70°-80°	10820.1	16.9
80°-90°	1492.9	2.3
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°	63915.0	100.0
0°-180°	63915.0	100.0



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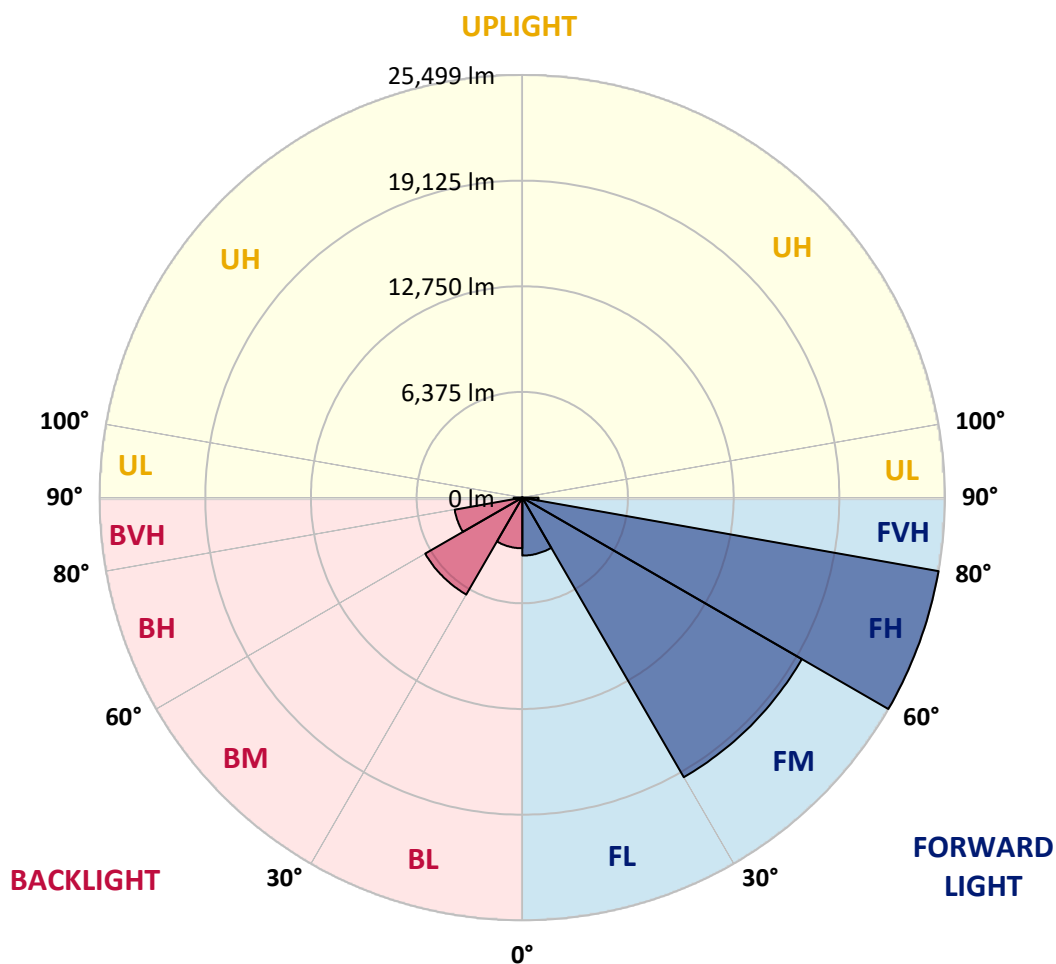
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3495.1	5.5			
FM	(30°-60°)	19473.7	30.5			
FH	(60°-80°)	25499.4	39.9			G5
FVH	(80°-90°)	975.2	1.5			G5
BL	(0°-30°)	3054.3	4.8	B4/5000		
BM	(30°-60°)	6756.5	10.6	B4/8500		
BH	(60°-80°)	4143.0	6.5	B4/5000		G4/5000
BVH	(80°-90°)	517.7	0.8			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	6416.3	6416.3	6416.3	6416.3	6416.3	6416.3	6416.3	6416.3	6416.3	6416.3	6416.3
2.5°	6830.1	6806.2	6802.8	6751.5	6724.1	6672.8	6652.3	6604.4	6546.3	6488.1	6433.4
5°	7367.1	7367.1	7343.2	7271.3	7158.5	7042.2	6990.9	6898.5	6734.4	6601.0	6488.1
7.5°	7917.8	7924.6	7876.7	7770.7	7609.9	7421.8	7374.0	7237.1	7004.6	6809.6	6642.0
10°	8393.2	8393.2	8328.2	8184.5	7982.7	7777.5	7729.7	7575.7	7315.8	7073.0	6854.1
12.5°	8755.7	8755.7	8670.2	8482.1	8263.2	8078.5	8023.8	7876.7	7633.9	7363.7	7086.7
15°	8991.7	8974.6	8878.8	8666.8	8454.7	8294.0	8256.4	8133.2	7910.9	7637.3	7326.1
17.5°	9002.0	8995.1	8902.8	8724.9	8540.2	8430.8	8406.9	8324.8	8150.3	7890.4	7562.1
20°	8803.6	8817.3	8755.7	8629.2	8540.2	8492.4	8482.1	8454.7	8331.6	8088.8	7760.4
22.5°	8591.5	8615.5	8557.3	8488.9	8482.1	8530.0	8536.8	8543.7	8465.0	8229.0	7928.0
25°	8540.2	8557.3	8499.2	8437.6	8475.3	8601.8	8629.2	8656.5	8595.0	8396.6	8126.4
27.5°	8800.2	8786.5	8673.6	8540.2	8564.2	8735.2	8772.8	8803.6	8772.8	8601.8	8372.7
30°	9535.5	9491.1	9265.3	8875.4	8752.3	8872.0	8909.6	8995.1	8995.1	8868.6	8639.4
32.5°	10766.8	10681.3	10267.4	9501.3	9073.8	9002.0	9039.6	9179.8	9251.6	9152.5	8902.8
35°	12261.4	12172.5	11580.8	10551.3	9662.1	9261.9	9251.6	9409.0	9600.5	9378.2	9053.3
37.5°	13762.9	13670.5	12959.1	11803.1	10520.5	9809.1	9747.6	9802.3	9884.4	9477.4	9261.9
40°	15264.4	15154.9	14532.4	13202.0	11570.5	10534.2	10373.5	10127.2	10093.0	9802.3	9665.5
42.5°	16752.1	16653.0	16338.3	14771.8	12829.2	11242.2	10995.9	10571.8	10701.8	10527.4	10407.7
45°	18253.6	18260.5	17925.3	16533.3	14347.7	12548.7	12217.0	11553.4	11861.3	11796.3	11864.7
47.5°	19584.1	19567.0	19447.3	18243.4	16232.3	14231.5	13803.9	13034.4	13561.1	13800.5	14323.8
50°	20873.5	20863.2	20870.1	20182.6	18421.2	16232.3	15760.3	14953.1	16139.9	16971.0	17908.2
52.5°	22720.4	22778.5	22364.7	22183.4	21082.1	18595.6	18075.8	17241.2	19187.3	20497.3	22327.1
55°	24574.1	24526.3	24201.3	24389.5	23866.2	21393.4	20849.5	20186.0	22580.2	24013.2	26763.1
57.5°	25665.2	25682.3	26014.0	26934.1	27303.5	24882.0	24389.5	23876.4	26393.7	27409.5	30710.0
60°	26646.8	26725.5	27679.7	29417.1	30419.3	29167.5	28729.7	28230.3	29892.6	30296.1	34137.0
62.5°	26954.6	27197.4	28863.1	31462.4	33456.4	34003.6	33459.8	32358.5	33223.8	33066.5	36459.3
65°	25418.9	25750.7	28736.5	32228.6	36168.6	38593.5	38248.1	36202.8	36062.6	35115.2	36839.0
67.5°	21376.3	21708.0	25542.1	30621.1	37290.5	42567.8	42222.4	39007.4	37786.4	35306.7	33966.0
70°	15640.6	15849.2	19515.7	25781.5	35036.5	43901.7	44021.4	40375.5	37170.7	32704.0	27888.3
72.5°	9012.2	9474.0	12042.5	18137.3	28623.7	40529.4	41360.5	37529.9	33278.6	27282.9	19498.6
75°	3875.1	3885.3	5568.1	10004.1	19385.7	32577.4	33381.2	31110.1	26133.8	18865.8	10411.1
77.5°	1843.5	1877.7	2448.9	4466.8	10671.0	22508.3	24676.7	21978.2	16714.5	9063.5	3933.2
80°	1197.1	1221.0	1498.0	2216.3	5232.9	13051.5	14563.2	12678.7	7374.0	3238.9	1696.4
82.5°	725.1	731.9	1002.1	1354.4	2879.8	5910.1	6966.9	5503.1	3146.6	1939.3	998.7
85°	441.2	444.6	608.8	837.9	1747.7	2041.9	2096.6	2079.5	1846.9	1268.9	533.6
87.5°	212.1	218.9	314.7	396.7	687.5	632.7	598.5	694.3	872.2	684.0	229.2
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°	6416.3	6416.3	6416.3	6416.3	6416.3	6416.3	6416.3	6416.3	6416.3	6416.3	6416.3
2.5°	6409.5	6399.2	6375.3	6365.0	6358.2	6361.6	6358.2	6358.2	6361.6	6361.6	6361.6
5°	6440.2	6423.1	6385.5	6385.5	6406.0	6453.9	6498.4	6532.6	6570.2	6566.8	6566.8
7.5°	6573.6	6542.8	6498.4	6512.1	6563.4	6638.6	6717.3	6792.5	6867.8	6874.6	6871.2
10°	6768.6	6737.8	6689.9	6707.0	6789.1	6902.0	7001.2	7110.6	7192.7	7216.6	7209.8
12.5°	6990.9	6929.3	6888.3	6936.2	7066.1	7216.6	7312.4	7394.5	7452.6	7486.8	7473.1
15°	7216.6	7158.5	7110.6	7209.8	7367.1	7507.3	7555.2	7568.9	7579.2	7613.4	7606.5
17.5°	7435.5	7356.9	7339.8	7469.7	7620.2	7681.8	7654.4	7596.3	7551.8	7579.2	7575.7
20°	7630.5	7568.9	7562.1	7692.0	7750.2	7692.0	7575.7	7473.1	7394.5	7401.3	7397.9
22.5°	7815.2	7767.3	7774.1	7828.8	7736.5	7538.1	7346.6	7206.4	7120.9	7138.0	7148.2
25°	8020.4	7972.5	7989.6	7900.7	7596.3	7250.8	6973.8	6854.1	6819.9	6854.1	6878.0
27.5°	8287.1	8256.4	8246.1	7904.1	7346.6	6826.7	6512.1	6467.6	6498.4	6573.6	6611.2
30°	8574.4	8574.4	8519.7	7845.9	7004.6	6317.1	6043.5	6050.3	6156.4	6262.4	6300.0
32.5°	8851.5	8909.6	8738.6	7688.6	6563.4	5821.2	5612.5	5619.4	5711.7	5841.7	5875.9
35°	9080.6	9248.2	8926.7	7401.3	6043.5	5403.9	5246.6	5154.2	5157.7	5256.8	5284.2
37.5°	9395.3	9706.5	9036.2	6973.8	5489.4	5048.2	4870.4	4709.6	4603.6	4562.5	4562.5
40°	9942.5	10400.8	9063.5	6341.1	4966.1	4709.6	4456.5	4265.0	4059.8	3875.1	3840.9
42.5°	10869.4	11447.4	9008.8	5612.5	4494.1	4336.8	4090.6	3854.6	3570.7	3310.8	3290.2
45°	12511.1	12808.7	8861.7	4856.7	4073.5	3977.7	3738.3	3481.8	3180.8	2948.2	2931.1
47.5°	15141.2	14720.5	8666.8	4186.3	3690.4	3663.0	3478.3	3180.8	2879.8	2719.1	2702.0
50°	18982.1	17730.3	8639.4	3700.7	3382.6	3396.3	3245.8	2972.2	2708.8	2575.4	2554.9
52.5°	23606.2	21366.0	8820.7	3358.6	3112.4	3163.7	3088.4	2835.3	2602.8	2489.9	2469.4
55°	28093.5	24635.7	8930.1	3091.9	2859.3	2955.1	2965.3	2753.3	2541.2	2428.3	2414.7
57.5°	31736.0	27098.3	8444.5	2849.0	2640.4	2787.5	2862.7	2705.4	2510.4	2424.9	2411.2
60°	34270.4	28261.1	7062.7	2633.6	2479.6	2654.1	2825.1	2708.8	2585.7	2595.9	2602.8
62.5°	35077.6	27744.7	5297.9	2472.8	2370.2	2609.6	2886.6	2849.0	2722.5	2801.1	2814.8
65°	33740.3	25610.5	3840.9	2346.3	2274.4	2640.4	3071.3	2951.6	2674.6	2732.7	2732.7
67.5°	29263.2	22063.7	2989.3	2230.0	2165.0	2698.5	3256.0	2941.4	2561.7	2630.1	2568.6
70°	23212.9	17066.8	2489.9	2100.0	2048.7	2613.0	3273.1	2835.3	2428.3	2442.0	2325.7
72.5°	15404.6	11221.7	2141.0	1976.9	1870.8	2349.7	3132.9	2698.5	2298.4	2219.7	2103.4
75°	7548.4	5595.4	1867.4	1823.0	1638.3	2045.3	2941.4	2568.6	2158.1	2035.0	1970.0
77.5°	2924.3	2380.5	1593.8	1628.0	1426.2	1802.4	2688.3	2383.9	1973.5	1805.9	1754.6
80°	1419.4	1351.0	1306.5	1357.8	1173.1	1535.7	2455.7	2223.1	1802.4	1617.8	1542.5
82.5°	882.4	834.5	1002.1	1056.8	902.9	1402.3	2329.2	2086.3	1587.0	1340.7	1279.2
85°	448.0	478.8	670.4	721.7	646.4	1115.0	1918.7	1566.5	1145.8	950.8	957.7
87.5°	171.0	229.2	352.3	379.6	345.4	588.3	1056.8	913.2	735.3	499.3	461.7
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)