

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: P383566

Luminaire Tested: **GLEON-SA8C-735-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383566  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA8C-735-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37566.5 lumens  
Efficiency: N/A  
Efficacy: 84.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G5

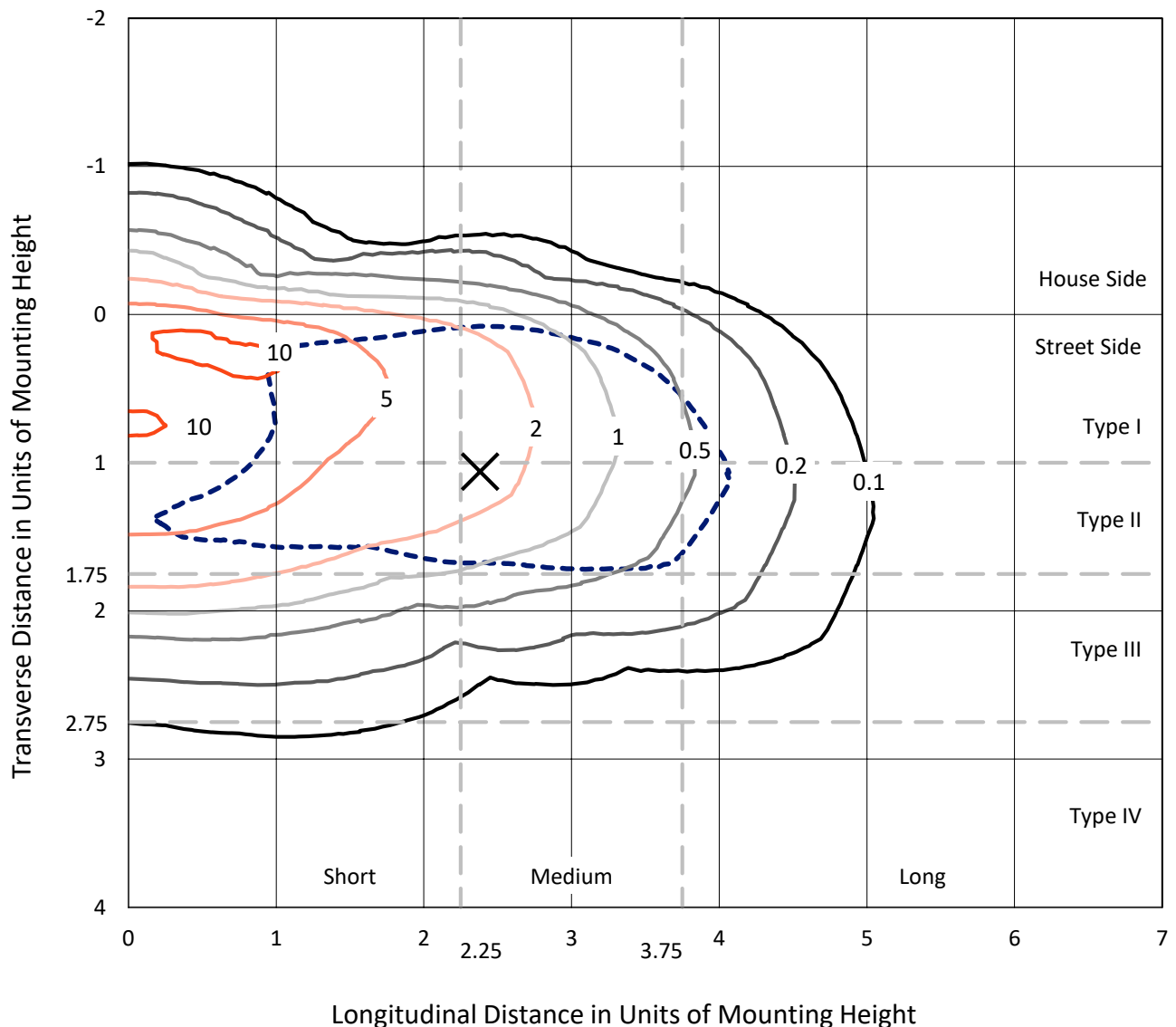
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

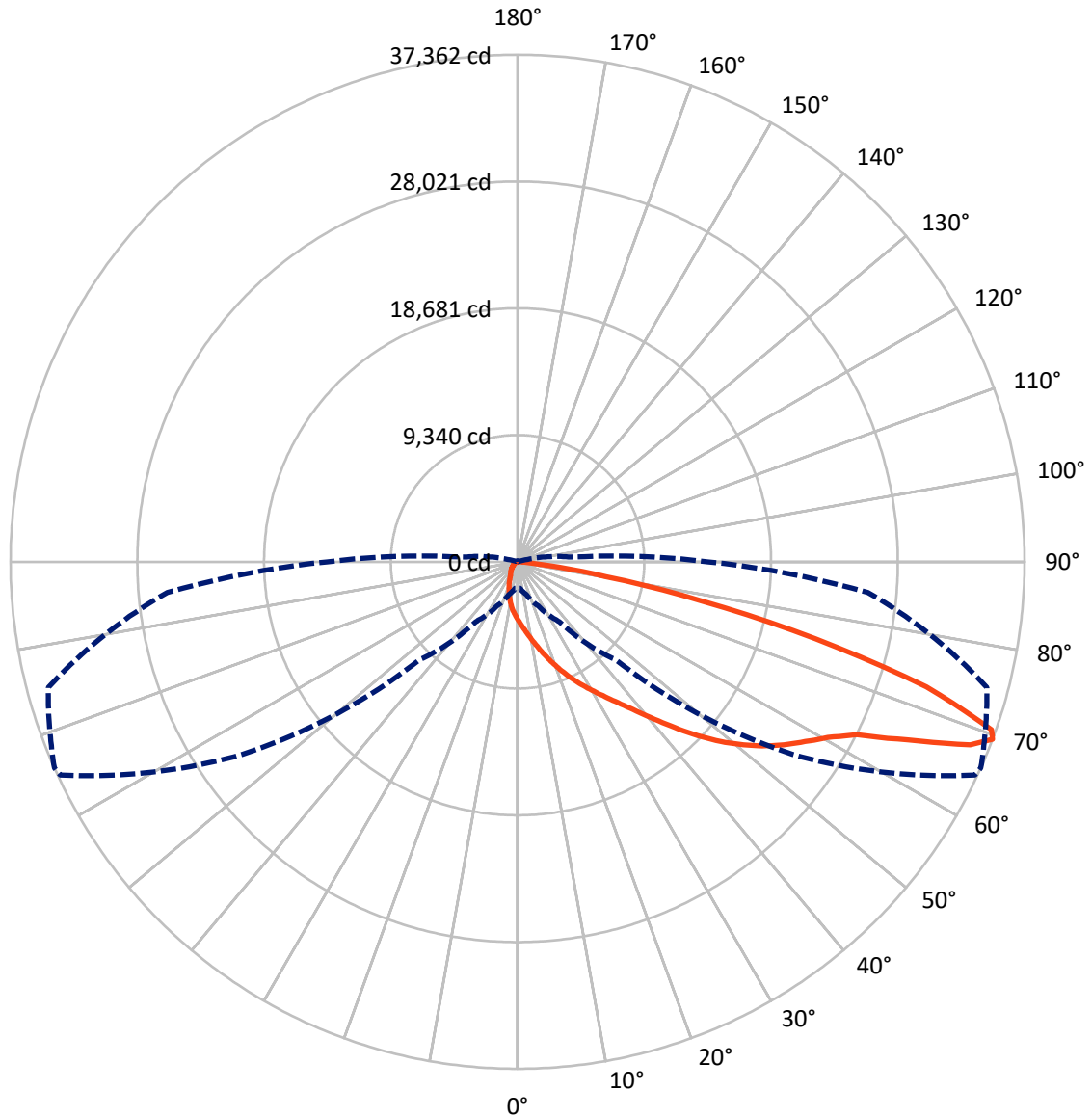
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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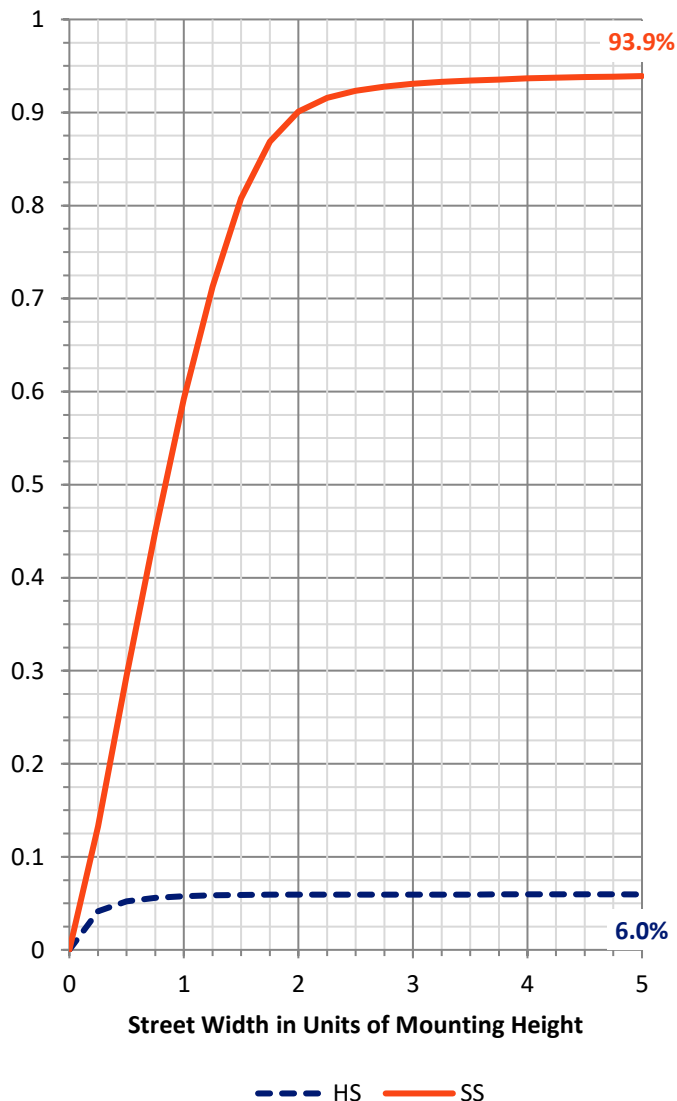
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2253.5	0.0	2253.5
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	35313.1	0.0	35313.1
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	37566.5	0.0	37566.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	413.2	1.1
10°-20°	1229.9	3.3
20°-30°	2141.7	5.7
30°-40°	3757.7	10.0
40°-50°	6289.8	16.7
50°-60°	9245.4	24.6
60°-70°	9492.7	25.3
70°-80°	4686.3	12.5
80°-90°	309.9	0.8
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°	37566.5	100.0
0°-180°	37566.5	100.0

**Coefficient of Utilization**

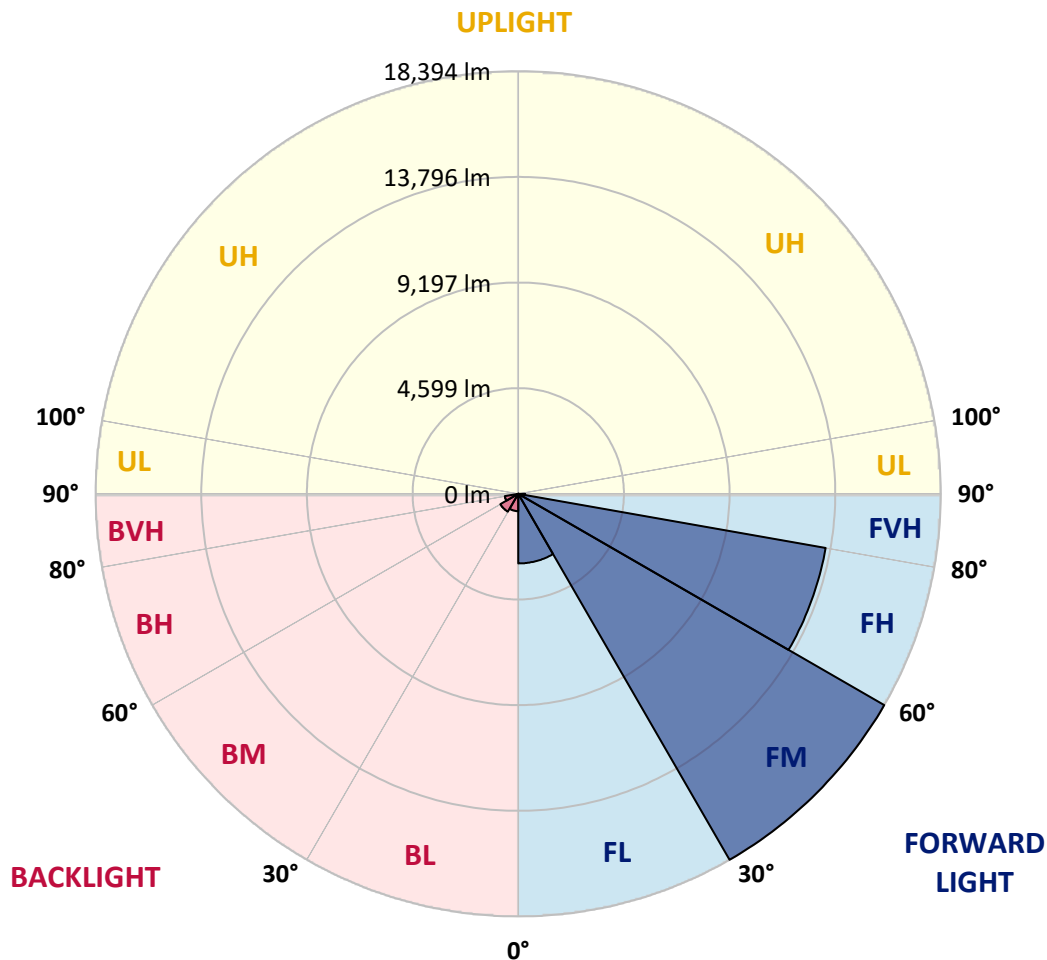


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3031.3	8.1			
FM (30°-60°)	18394.4	49.0			
FH (60°-80°)	13585.1	36.2			G5
FVH (80°-90°)	302.4	0.8			G3/500
BL (0°-30°)	753.7	2.0	B2/1000		
BM (30°-60°)	898.5	2.4	B1/1000		
BH (60°-80°)	593.9	1.6	B2/1000		G2/1000
BVH (80°-90°)	7.5	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-G5**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4275.2	4275.2	4275.2	4275.2	4275.2	4275.2	4275.2	4275.2	4275.2	4275.2	4275.2
2.5°	5031.8	5010.3	5001.4	4962.2	4894.4	4842.6	4742.7	4626.7	4605.3	4492.9	4355.5
5°	5684.8	5667.0	5654.5	5599.2	5529.6	5399.3	5217.3	5001.4	4960.4	4746.2	4471.4
7.5°	6139.8	6171.9	6171.9	6136.2	6048.8	5950.6	5727.6	5433.2	5381.5	5053.2	4626.7
10°	6405.7	6444.9	6475.3	6505.6	6493.1	6453.9	6243.2	5911.4	5848.9	5413.6	4806.9
12.5°	6430.7	6469.9	6555.5	6682.2	6805.3	6894.6	6762.5	6441.4	6369.9	5831.1	5021.0
15°	6291.5	6332.5	6464.6	6710.8	7008.8	7269.2	7312.1	7028.3	6955.2	6328.9	5288.7
17.5°	6048.8	6075.6	6264.7	6605.5	7073.0	7551.1	7809.9	7658.3	7590.4	6898.1	5586.7
20°	5868.6	5888.2	6054.1	6419.9	7033.7	7727.8	8281.0	8327.4	8255.9	7508.4	5909.6
22.5°	6177.3	6213.0	6218.3	6391.3	6926.7	7815.2	8694.9	8985.7	8932.2	8156.1	6227.2
25°	7021.3	7062.2	6926.7	6819.6	7017.6	7854.5	9050.0	9660.2	9617.4	8853.7	6546.6
27.5°	8136.4	8179.3	8004.4	7685.0	7494.1	8002.6	9365.8	10345.4	10343.6	9592.4	6890.9
30°	9232.0	9274.8	9096.4	8776.9	8338.0	8421.9	9638.8	11062.7	11073.4	10354.3	7256.8
32.5°	10381.1	10434.6	10250.8	9840.4	9381.9	9146.3	10022.4	11783.5	11844.2	11237.5	7669.0
35°	11687.2	11694.4	11435.6	11005.6	10477.4	10115.2	10638.0	12591.8	12736.4	12331.4	8191.8
37.5°	12968.4	13020.1	12807.8	12129.7	11644.3	11234.0	11553.3	13601.7	13806.9	13667.8	8875.1
40°	13917.6	14026.4	13996.0	13264.5	12804.1	12511.5	12690.0	14802.6	15063.1	15223.6	9736.9
42.5°	14513.5	14595.6	14734.8	14294.0	13876.5	13924.7	14031.7	16201.5	16522.7	16997.3	10727.2
45°	15196.9	15236.2	15352.2	15157.7	14875.7	15361.0	15455.7	17777.0	18114.2	18904.7	11826.4
47.5°	16031.9	16124.7	16156.9	15978.5	15850.0	16631.5	16827.8	19209.8	19682.7	20947.7	12989.7
50°	17095.4	17120.4	17175.7	17059.7	16931.3	17723.4	18058.9	20714.0	21144.0	22997.9	14137.1
52.5°	18135.6	18224.9	18417.5	18344.4	18292.7	18653.1	19156.3	22070.0	22550.1	24707.3	15282.6
55°	18435.4	18512.2	19177.7	19632.6	20053.8	19798.6	20205.5	23285.2	23804.4	26234.6	16385.3
57.5°	17238.2	17393.4	18546.1	19730.8	21477.7	21579.4	21647.2	24532.4	24998.1	27405.1	17532.6
60°	14212.0	14242.3	16133.7	18166.0	21242.2	23133.5	23752.6	25872.4	26263.1	28495.3	18906.5
62.5°	9039.3	9348.0	11423.1	14292.3	18751.2	22908.7	26298.8	27899.4	28042.1	29803.2	20876.4
65°	4305.5	4505.3	6000.7	8830.5	13582.2	20030.6	28056.4	31566.1	31630.3	32395.8	23508.2
67.5°	2383.8	2480.2	3192.1	4753.4	7940.1	14165.6	27346.2	35909.1	35969.8	35043.7	25817.1
69°	1864.6	1946.7	2507.0	3582.9	5383.2	10181.3	24746.5	37181.3	37361.5	35802.1	25899.2
70°	1582.7	1663.0	2159.0	3026.1	4328.7	7867.0	22027.2	36865.5	37056.4	35730.6	25287.1
72.5°	968.9	1015.3	1438.1	2130.4	2901.3	3957.6	13583.9	31177.1	31500.1	32775.9	21732.8
75°	653.0	678.1	899.3	1470.3	2075.1	2037.7	7056.9	21975.5	22674.9	25495.9	16051.6
77.5°	467.5	490.6	603.1	951.0	1454.2	1345.3	3195.7	13657.0	13806.9	15291.4	8753.8
80°	265.9	287.3	426.5	565.6	986.7	897.5	1270.4	6523.4	6598.3	6557.3	2922.7
82.5°	139.2	157.1	233.7	372.9	633.5	587.1	528.2	2184.0	2194.7	1825.4	640.5
85°	26.7	32.1	116.0	255.2	326.5	255.2	215.9	512.1	522.8	462.1	158.8
87.5°	0.0	1.8	46.4	57.1	64.3	66.0	69.6	100.0	107.0	144.5	42.9
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°	4275.2	4275.2	4275.2	4275.2	4275.2	4275.2	4275.2	4275.2	4275.2	4275.2	4275.2
2.5°	4294.8	4230.6	4107.5	3964.8	3854.1	3745.3	3659.6	3570.4	3538.3	3522.2	3520.4
5°	4337.7	4202.0	3941.6	3673.8	3454.4	3247.5	3099.4	2958.4	2892.4	2862.0	2849.5
7.5°	4409.0	4191.3	3772.0	3363.4	3047.6	2788.9	2583.6	2430.2	2353.5	2321.4	2308.9
10°	4492.9	4177.1	3574.0	3035.1	2631.8	2364.2	2160.8	2009.2	1925.2	1889.6	1871.8
12.5°	4591.0	4152.1	3345.6	2703.3	2276.8	2009.2	1762.9	1575.5	1479.2	1438.1	1418.6
15°	4712.3	4127.1	3106.4	2391.0	1964.5	1638.0	1368.5	1241.8	1222.3	1215.1	1216.9
17.5°	4831.9	4087.8	2846.0	2082.3	1636.2	1279.4	1142.0	1134.8	1138.4	1138.4	1138.4
20°	4939.0	3998.7	2562.2	1818.2	1323.9	1079.5	1051.0	1038.5	1029.5	1022.4	1013.5
22.5°	5022.8	3879.1	2289.3	1555.9	1081.2	988.5	943.9	904.6	872.5	851.2	840.4
25°	5079.9	3720.2	2039.4	1304.4	972.4	899.3	819.0	753.0	703.0	672.7	660.2
27.5°	5122.8	3549.0	1816.4	1092.0	897.5	795.8	690.6	612.0	560.2	533.5	522.8
30°	5153.0	3354.5	1620.1	960.0	813.6	686.9	574.6	497.8	460.4	446.1	438.9
32.5°	5181.6	3138.6	1434.6	897.5	735.2	587.1	481.8	422.9	399.7	381.8	376.5
35°	5253.0	2938.8	1258.0	831.5	654.9	501.4	414.0	371.1	347.9	337.2	333.7
37.5°	5422.5	2790.6	1088.4	763.7	574.6	433.5	362.2	331.9	310.5	299.8	296.2
40°	5695.5	2715.7	945.7	690.6	496.0	381.8	328.3	299.8	276.6	260.6	256.9
42.5°	6097.0	2726.5	845.8	617.3	433.5	340.8	296.2	262.3	237.4	223.0	219.5
45°	6584.1	2804.9	776.2	546.0	381.8	308.7	260.6	224.8	201.6	189.1	185.6
47.5°	7112.3	2931.6	719.1	481.8	340.8	278.3	224.8	187.3	167.7	157.1	155.2
50°	7669.0	3054.7	660.2	419.3	305.1	248.0	189.1	155.2	139.2	130.2	126.7
52.5°	8232.7	3197.4	606.6	362.2	274.8	212.3	157.1	126.7	114.2	107.0	103.5
55°	8839.5	3304.6	554.9	317.6	244.4	180.3	130.2	105.3	94.6	85.6	83.8
57.5°	9553.1	3470.5	501.4	274.8	208.8	149.9	107.0	83.8	74.9	66.0	64.3
60°	10516.7	3665.0	444.3	242.7	171.3	123.2	87.5	67.8	57.1	49.9	48.2
62.5°	11787.2	3880.8	372.9	212.3	139.2	100.0	69.6	53.6	41.1	32.1	32.1
65°	13398.4	4232.4	305.1	178.4	114.2	82.1	53.6	39.2	23.2	14.3	14.3
67.5°	14338.7	4293.0	246.2	146.3	92.8	69.6	44.6	26.7	7.2	1.8	0.0
69°	14037.1	3941.6	208.8	124.9	80.3	66.0	41.1	19.7	3.5	0.0	0.0
70°	13469.7	3604.3	183.8	110.7	73.1	62.4	39.2	14.3	3.5	0.0	0.0
72.5°	11130.5	2565.9	139.2	82.1	53.6	55.3	35.7	8.9	3.5	0.0	0.0
75°	8107.9	1559.5	100.0	57.1	33.9	41.1	25.0	3.5	1.8	0.0	0.0
77.5°	4510.7	735.2	62.4	32.1	21.4	25.0	12.5	0.0	0.0	0.0	0.0
80°	1465.0	199.8	28.5	17.9	12.5	14.3	5.3	0.0	0.0	0.0	0.0
82.5°	271.2	57.1	16.0	8.9	3.5	3.5	0.0	0.0	0.0	0.0	0.0
85°	58.9	23.2	8.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.7	7.2	1.8	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)