

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: P455157

Luminaire Tested: **GALN-SA6B-750-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-750-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27912 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

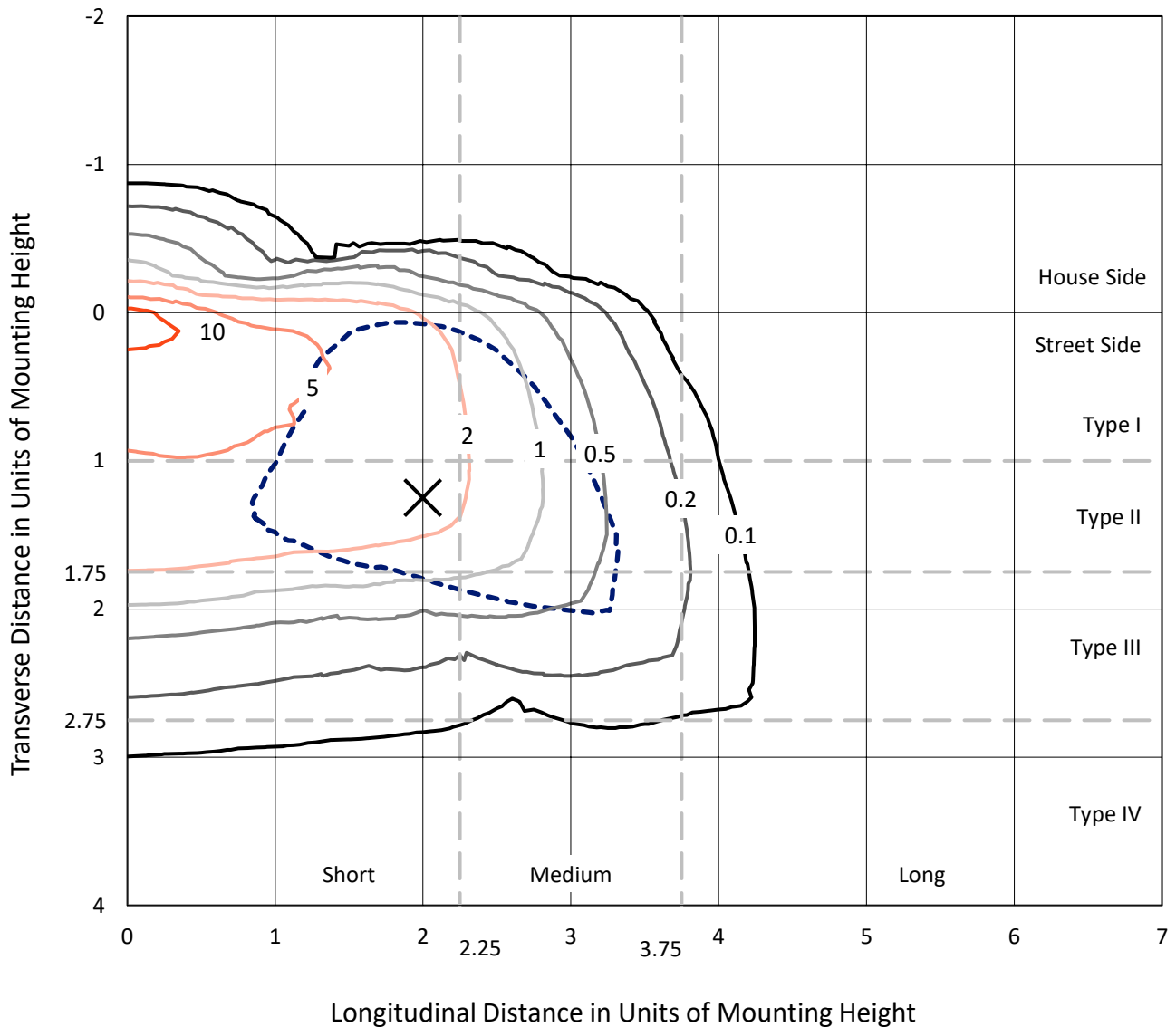
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

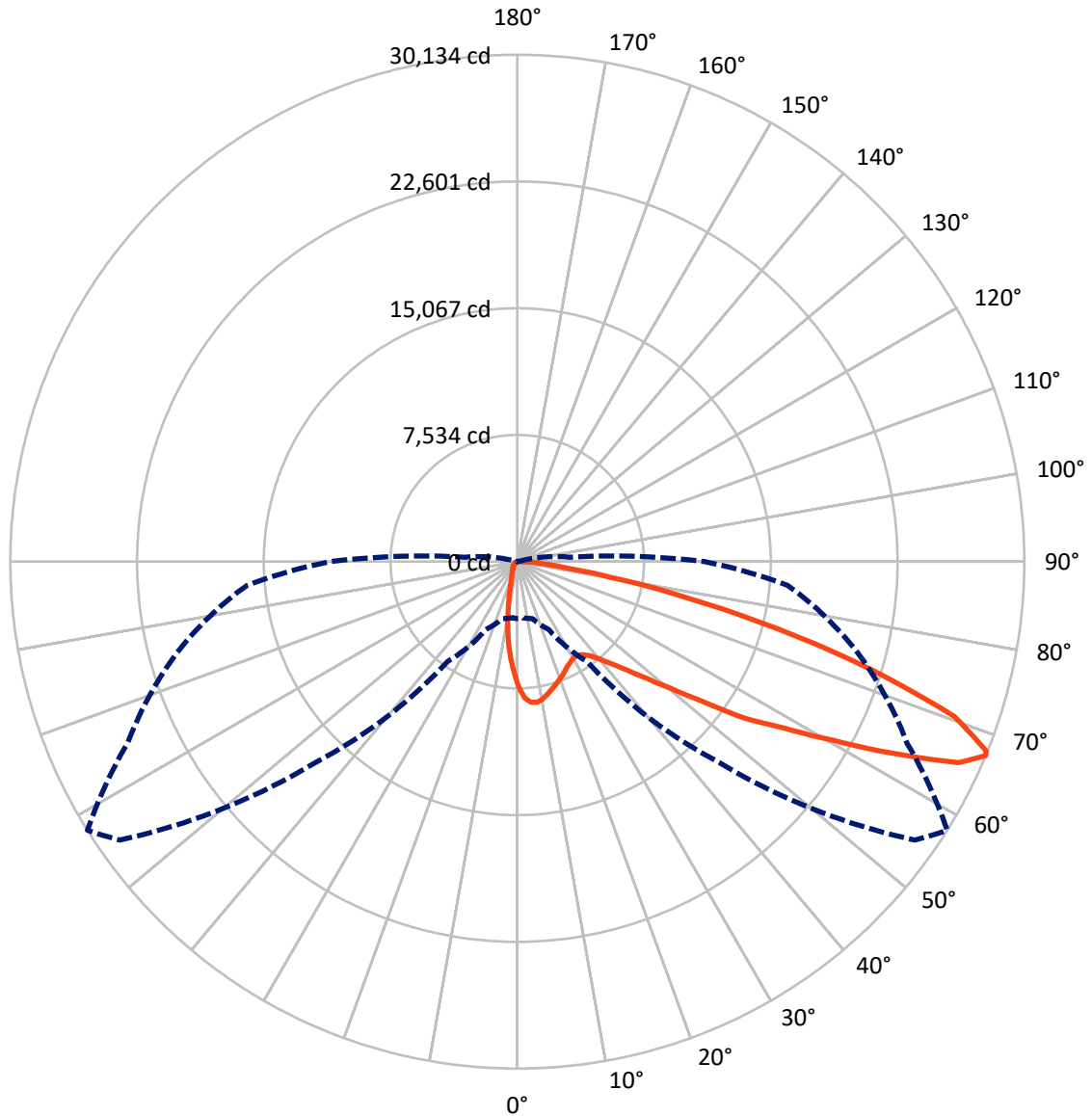
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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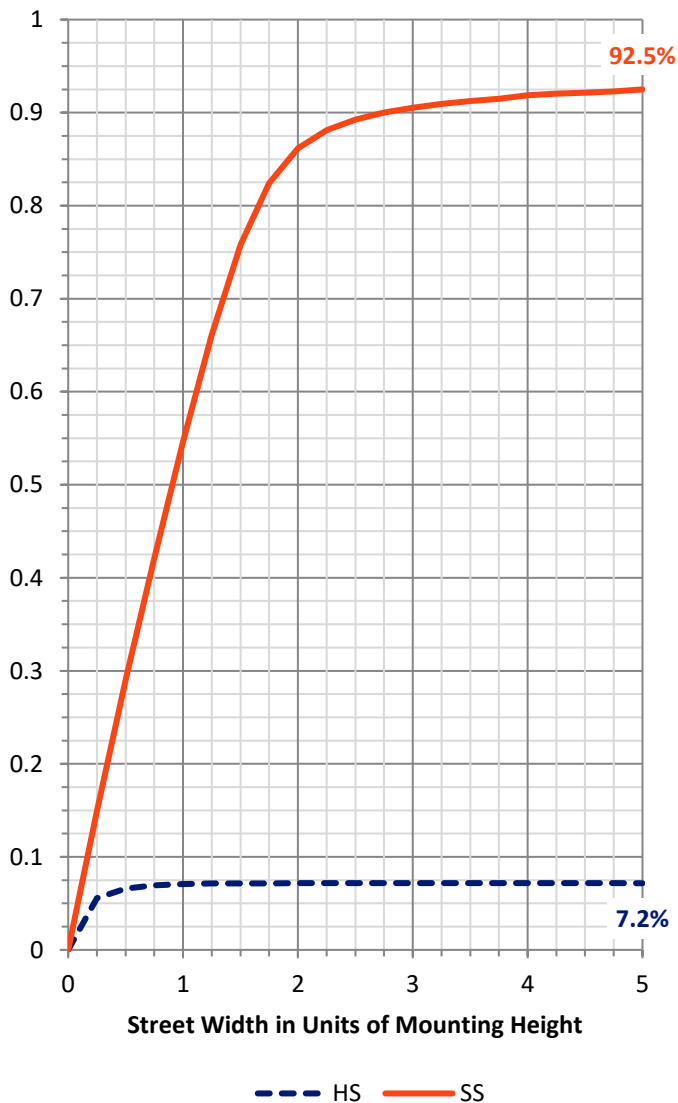
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2014.3	0.0	2014.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	25897.7	0.0	25897.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	27912.0	0.0	27912.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.4	2.2
10°-20°	1296.8	4.6
20°-30°	1757.2	6.3
30°-40°	2437.2	8.7
40°-50°	3887.0	13.9
50°-60°	6719.0	24.1
60°-70°	7675.2	27.5
70°-80°	3199.9	11.5
80°-90°	339.3	1.2
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°	27912.0	100.0
0°-180°	27912.0	100.0

Coefficient of Utilization



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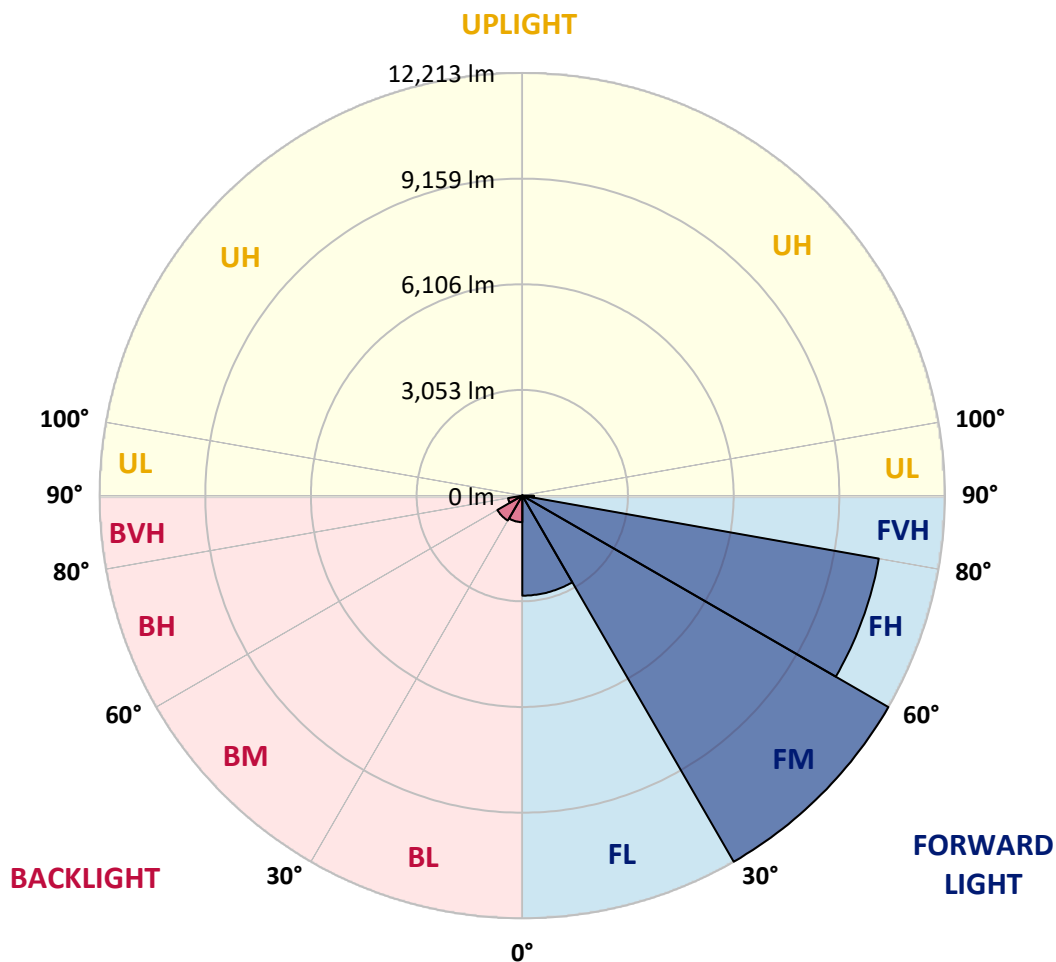
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2889.6	10.4			
FM	(30°-60°)	12212.7	43.8			
FH	(60°-80°)	10458.7	37.5			G4/12000
FVH	(80°-90°)	336.8	1.2			G3/500
BL	(0°-30°)	764.9	2.7	B2/1000		
BM	(30°-60°)	830.5	3.0	B1/1000		
BH	(60°-80°)	416.4	1.5	B1/500		G1/500
BVH	(80°-90°)	2.5	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7399.2	7399.2	7399.2	7399.2	7399.2	7399.2	7399.2	7399.2	7399.2	7399.2	7399.2
2.5°	8587.3	8600.4	8551.9	8512.7	8412.0	8303.8	8160.2	8083.7	7953.2	7727.5	7477.6
5°	8788.8	8805.6	8798.1	8788.8	8749.6	8645.2	8462.4	8395.2	8203.1	7835.7	7384.3
7.5°	8341.1	8402.7	8410.1	8482.9	8551.9	8561.2	8492.2	8441.9	8264.7	7833.8	7218.3
10°	7748.0	7789.0	7848.7	7932.7	8098.7	8236.7	8303.8	8296.4	8193.8	7776.0	7024.3
12.5°	7149.3	7171.7	7263.1	7406.7	7610.0	7845.0	8024.1	8059.5	8061.4	7707.0	6862.0
15°	6634.5	6625.2	6696.0	6862.0	7147.4	7442.1	7762.9	7818.9	7908.4	7639.8	6711.0
17.5°	6194.3	6242.8	6254.0	6436.8	6699.8	7082.1	7490.6	7589.5	7768.5	7582.0	6586.0
20°	5922.0	5948.1	5972.3	6074.9	6311.8	6714.7	7235.1	7371.2	7638.0	7529.8	6446.1
22.5°	5841.8	5858.6	5838.0	5869.8	6037.6	6395.7	6957.2	7138.1	7513.0	7481.3	6332.3
25°	5903.3	5920.1	5871.6	5834.3	5892.1	6136.5	6688.6	6908.7	7412.3	7472.0	6246.5
27.5°	6052.5	6084.3	6017.1	5950.0	5916.4	5996.6	6477.8	6733.3	7343.3	7516.7	6207.4
30°	6285.7	6304.3	6254.0	6171.9	6095.4	6015.2	6367.8	6612.1	7324.6	7621.2	6203.6
32.5°	6539.4	6578.5	6550.6	6496.5	6397.6	6207.4	6399.5	6615.8	7369.4	7772.3	6250.3
35°	6852.7	6897.5	6923.6	6912.4	6785.6	6548.7	6600.9	6783.7	7488.7	8050.2	6377.1
37.5°	7160.5	7199.6	7347.0	7397.3	7285.4	7061.6	6992.6	7113.8	7751.7	8413.9	6606.5
40°	7513.0	7565.2	7772.3	7964.4	7910.3	7675.3	7548.4	7649.2	8154.6	8962.2	7041.1
42.5°	7850.6	7943.9	8259.1	8598.5	8648.9	8385.9	8302.0	8335.5	8751.5	9751.2	7647.3
45°	8329.9	8417.6	8824.2	9284.9	9521.8	9316.6	9230.8	9225.2	9570.3	10861.0	8630.2
47.5°	9021.9	9100.3	9579.6	10034.7	10456.3	10484.2	10322.0	10377.9	10599.9	12159.2	9835.2
50°	9870.6	10055.2	10370.5	10844.2	11407.5	11862.6	11913.0	11838.4	12028.6	13662.5	11282.5
52.5°	11103.5	11174.4	11463.5	11853.3	12513.6	13285.8	13884.5	13781.9	13722.2	15095.0	12744.9
55°	12023.0	12118.1	12567.7	13103.0	14071.0	15089.4	16387.6	16423.0	15669.5	16471.5	14175.5
57.5°	11745.1	11890.6	12571.4	13647.6	15775.8	17637.3	18603.4	18627.7	17471.2	17808.8	15790.7
60°	10318.2	10387.3	11362.7	12798.9	15921.3	20397.7	21746.3	21550.4	19304.7	19304.7	17217.6
62.5°	7317.1	7425.3	8216.2	10329.4	14378.8	21356.4	25510.2	25105.5	21830.2	20735.3	18068.1
65°	4676.0	4571.6	5095.7	6520.7	10711.8	19940.8	28787.4	28811.6	24206.5	21307.9	17603.7
67°	3387.2	3346.2	3497.2	4457.8	7263.1	16762.5	28856.4	30134.0	25571.8	20946.1	16119.0
67.5°	3098.1	3129.8	3239.8	4021.4	6599.0	15253.5	28543.0	30055.7	25879.5	20727.9	15581.8
70°	2348.3	2294.2	2413.6	2844.4	3956.1	9622.5	24553.4	27565.7	25497.2	18562.4	12450.2
72.5°	1727.2	1721.6	1887.6	2325.9	3045.9	5125.5	18431.8	22102.5	20830.5	14134.4	7839.4
75°	1165.7	1218.0	1482.8	1943.5	2760.5	3323.8	12565.8	16035.1	14460.8	8025.9	3204.4
77.5°	664.0	667.7	955.0	1561.2	2478.8	2674.7	7445.8	10215.7	7654.7	2669.1	951.2
80°	287.2	315.2	473.8	1134.0	2055.4	2368.8	4269.4	5614.2	3096.2	565.2	307.8
82.5°	106.3	125.0	208.9	697.6	1499.6	1951.0	2579.6	2680.3	1050.1	199.6	192.1
85°	0.0	3.7	76.5	326.4	781.5	871.0	1723.4	1589.1	464.4	95.1	125.0
87.5°	0.0	0.0	0.0	33.6	102.6	324.5	535.3	596.9	111.9	33.6	29.8
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°	7399.2	7399.2	7399.2	7399.2	7399.2	7399.2	7399.2	7399.2	7399.2	7399.2	7399.2
2.5°	7343.3	7222.0	6918.0	6614.0	6388.3	6199.9	5916.4	5761.6	5679.5	5558.3	5565.7
5°	7158.6	6912.4	6377.1	5823.1	5375.5	4939.0	4416.8	4206.0	4028.8	3928.1	3860.9
7.5°	6884.4	6520.7	5728.0	4989.4	4301.1	3538.3	2965.7	2583.3	2325.9	2230.8	2139.4
10°	6584.1	6101.0	5069.6	4045.6	3090.6	2303.5	1818.6	1467.9	1342.9	1227.3	1238.5
12.5°	6306.2	5718.7	4465.3	3193.2	2165.5	1464.2	1141.5	997.9	956.8	943.8	943.8
15°	6078.7	5353.1	3816.2	2400.5	1484.7	1052.0	913.9	874.8	859.9	856.1	856.1
17.5°	5836.2	5006.2	3230.5	1773.8	1079.9	880.4	833.7	807.6	802.0	798.3	798.3
20°	5619.8	4657.4	2674.7	1320.6	872.9	792.7	762.9	746.1	740.5	736.8	738.6
22.5°	5414.7	4347.8	2152.4	997.9	768.5	721.8	692.0	675.2	664.0	654.7	656.5
25°	5231.9	4049.3	1730.9	817.0	692.0	651.0	621.1	596.9	572.6	561.4	559.6
27.5°	5103.2	3788.2	1348.5	699.4	623.0	578.2	540.9	511.1	479.4	462.6	458.8
30°	4996.8	3523.3	1066.9	617.4	554.0	511.1	464.4	421.5	388.0	371.2	363.7
32.5°	4927.8	3271.5	841.2	550.2	496.1	443.9	391.7	348.8	311.5	294.7	291.0
35°	4916.6	3060.8	688.3	494.3	443.9	388.0	333.9	287.2	255.5	238.7	235.0
37.5°	4996.8	2898.5	576.3	449.5	401.0	339.5	279.8	236.9	208.9	195.8	194.0
40°	5211.3	2795.9	499.9	412.2	361.8	294.7	238.7	201.4	173.5	160.4	160.4
42.5°	5619.8	2799.7	449.5	376.8	322.7	251.8	203.3	167.9	143.6	132.4	128.7
45°	6257.7	2926.5	406.6	341.3	285.4	218.2	173.5	138.0	113.8	104.5	104.5
47.5°	7112.0	3178.3	369.3	305.9	251.8	186.5	147.4	111.9	91.4	82.1	82.1
50°	8229.2	3583.0	337.6	276.0	223.8	160.4	119.4	91.4	70.9	63.4	61.6
52.5°	9396.8	4082.9	300.3	249.9	192.1	136.2	97.0	70.9	54.1	48.5	46.6
55°	10685.7	4571.6	264.9	223.8	156.7	113.8	76.5	56.0	39.2	33.6	33.6
57.5°	11985.7	5050.9	222.0	186.5	123.1	83.9	59.7	41.0	26.1	20.5	20.5
60°	13086.2	5205.7	188.4	151.1	93.3	59.7	42.9	26.1	14.9	9.3	9.3
62.5°	13237.3	4683.5	158.5	115.6	67.1	41.0	22.4	14.9	5.6	3.7	3.7
65°	12416.6	3805.0	132.4	87.7	44.8	20.5	9.3	5.6	1.9	0.0	0.0
67°	11125.9	3085.0	108.2	65.3	31.7	13.1	5.6	1.9	0.0	0.0	0.0
67.5°	10795.7	2941.4	104.5	61.6	28.0	11.2	3.7	1.9	0.0	0.0	0.0
70°	8471.7	2202.8	74.6	37.3	16.8	7.5	0.0	0.0	0.0	0.0	0.0
72.5°	5265.4	1245.9	54.1	22.4	11.2	3.7	0.0	0.0	0.0	0.0	0.0
75°	1990.2	436.5	37.3	14.9	7.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	619.2	166.0	22.4	11.2	3.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	208.9	63.4	14.9	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	128.7	26.1	9.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	80.2	11.2	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.9	3.7	1.9	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)