

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: P456375

Luminaire Tested: **GALN-SA7C-827-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456375
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-SA7C-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA 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: 29778 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

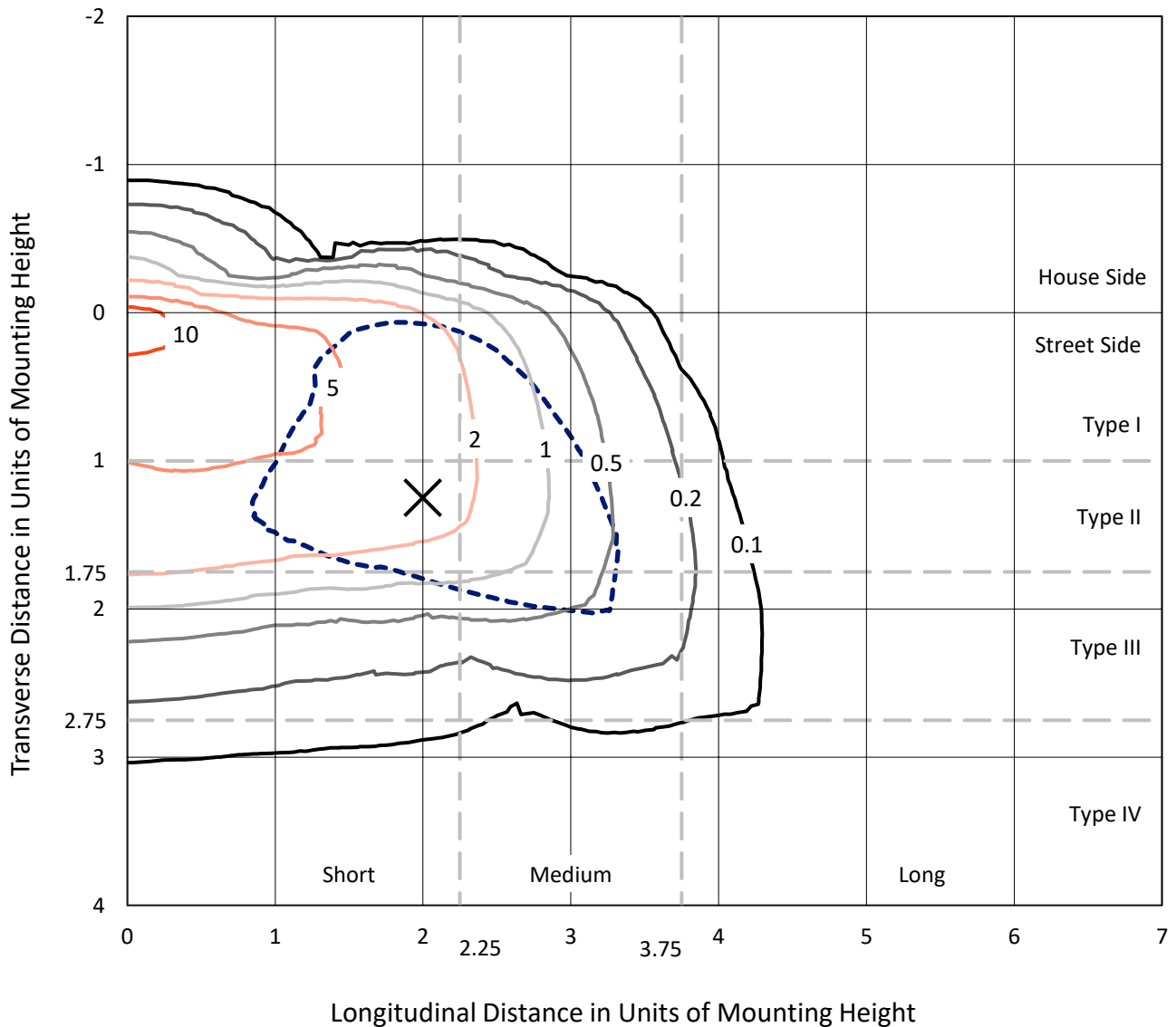
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

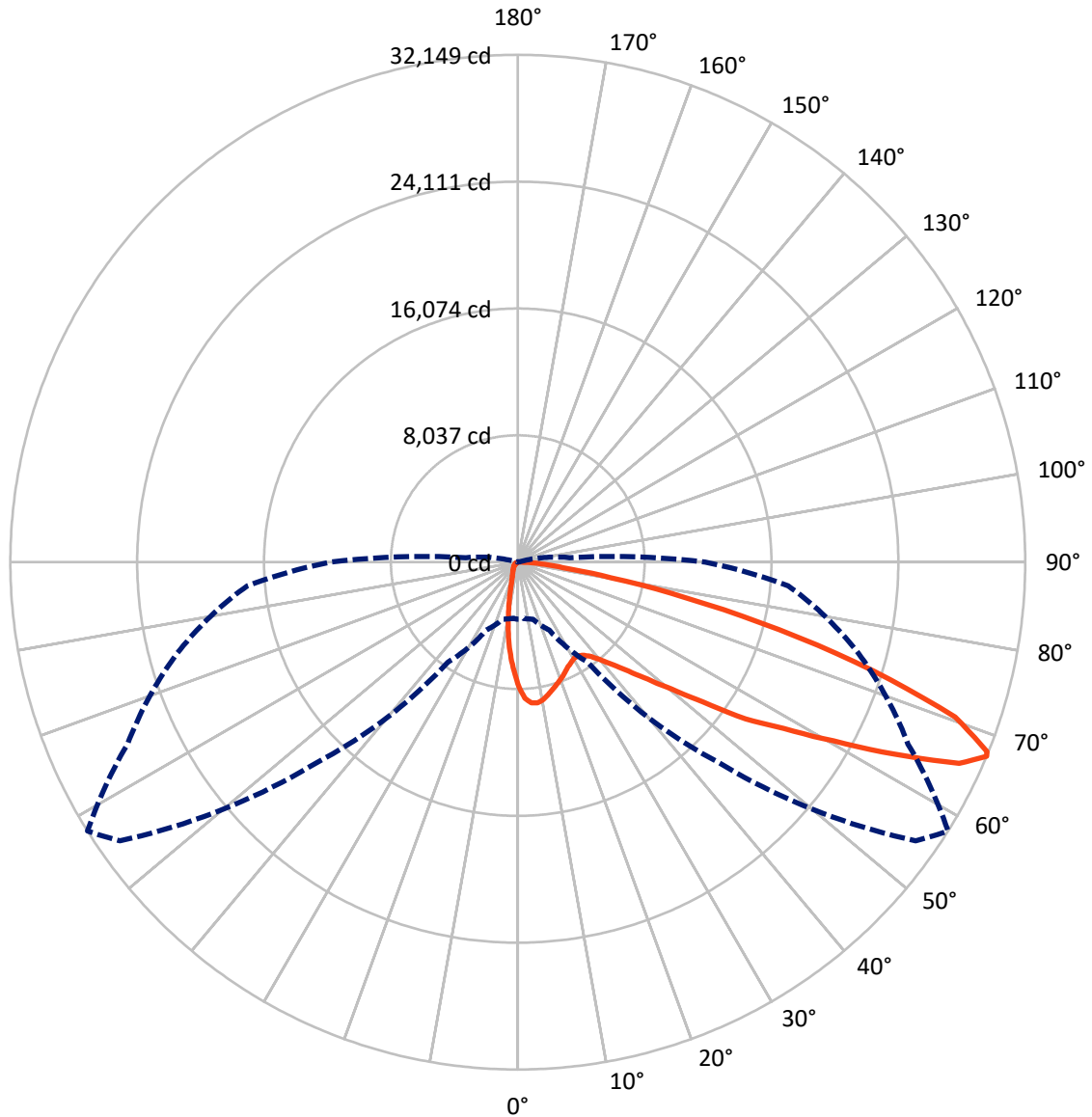
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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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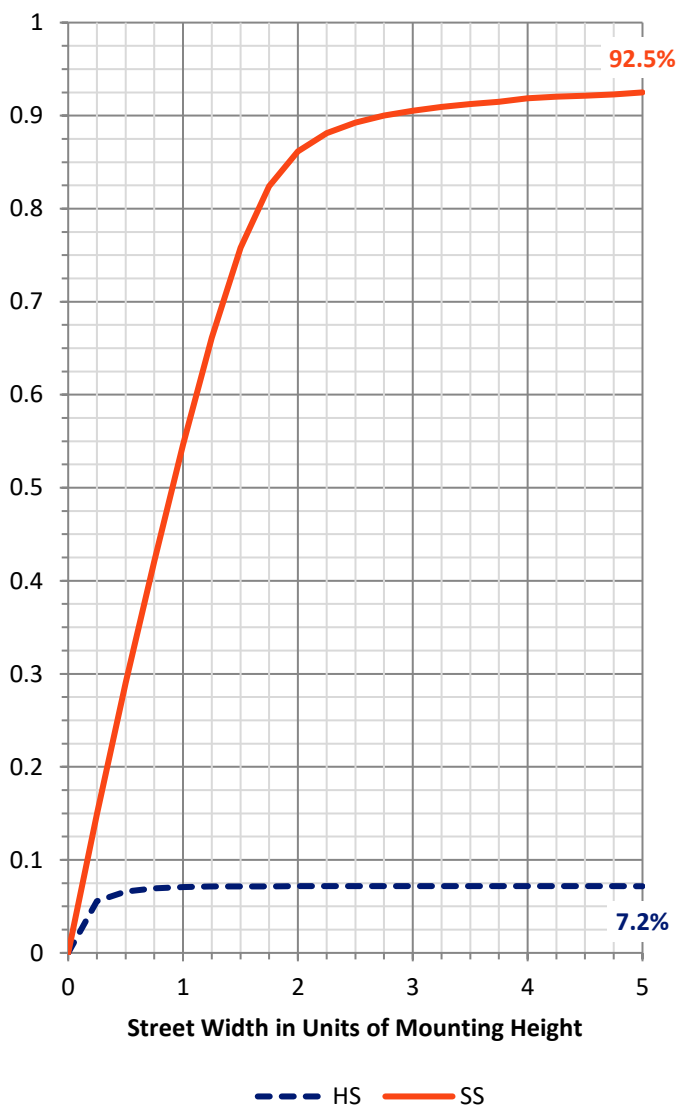
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2149.0	0.0	2149.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	27629.0	0.0	27629.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	29778.0	0.0	29778.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.6	2.2
10°-20°	1383.5	4.6
20°-30°	1874.7	6.3
30°-40°	2600.1	8.7
40°-50°	4146.9	13.9
50°-60°	7168.2	24.1
60°-70°	8188.3	27.5
70°-80°	3413.8	11.5
80°-90°	362.0	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°	29778.0	100.0
0°-180°	29778.0	100.0

Coefficient of Utilization



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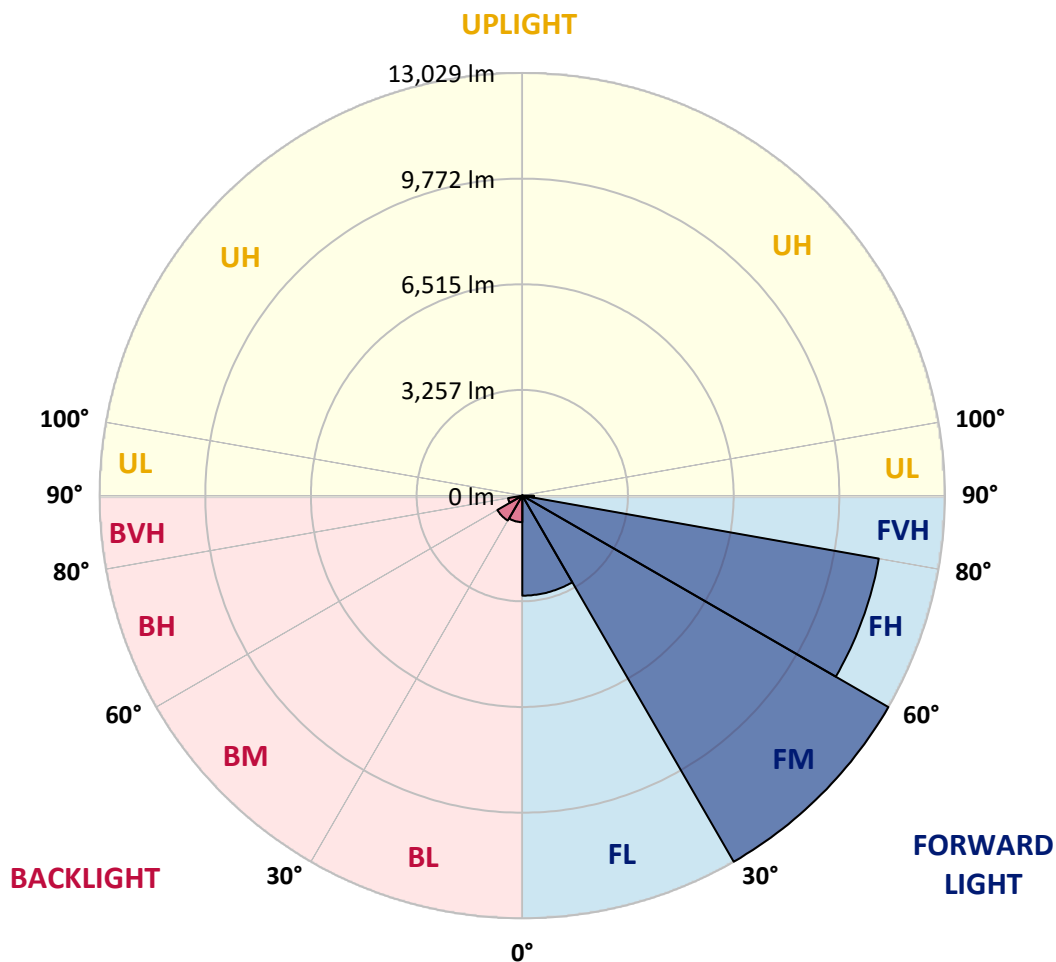
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3082.7	10.4			
FM	(30°-60°)	13029.1	43.8			
FH	(60°-80°)	11157.9	37.5			G4/12000
FVH	(80°-90°)	359.3	1.2			G3/500
BL	(0°-30°)	816.0	2.7	B2/1000		
BM	(30°-60°)	886.1	3.0	B1/1000		
BH	(60°-80°)	444.3	1.5	B1/500		G1/500
BVH	(80°-90°)	2.6	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°	7893.9	7893.9	7893.9	7893.9	7893.9	7893.9	7893.9	7893.9	7893.9	7893.9	7893.9
2.5°	9161.4	9175.4	9123.6	9081.8	8974.4	8859.0	8705.7	8624.2	8484.9	8244.1	7977.4
5°	9376.3	9394.2	9386.3	9376.3	9334.6	9223.1	9028.1	8956.5	8751.5	8359.5	7878.0
7.5°	8898.8	8964.4	8972.4	9050.0	9123.6	9133.6	9059.9	9006.2	8817.2	8357.5	7700.9
10°	8266.0	8309.8	8373.4	8463.0	8640.1	8787.3	8859.0	8851.0	8741.6	8295.8	7493.9
12.5°	7627.2	7651.1	7748.6	7901.8	8118.7	8369.5	8560.5	8598.3	8600.3	8222.2	7320.8
15°	7078.0	7068.1	7143.7	7320.8	7625.2	7939.6	8281.9	8341.6	8437.1	8150.6	7159.6
17.5°	6608.4	6660.1	6672.1	6867.1	7147.7	7555.6	7991.4	8096.8	8287.9	8088.9	7026.3
20°	6317.9	6345.7	6371.6	6481.1	6733.8	7163.6	7718.8	7864.0	8148.6	8033.2	6877.0
22.5°	6232.3	6250.2	6228.3	6262.2	6441.3	6823.3	7422.3	7615.3	8015.3	7981.4	6755.7
25°	6298.0	6315.9	6264.2	6224.4	6286.0	6546.7	7135.7	7370.5	7907.8	7971.5	6664.1
27.5°	6457.2	6491.0	6419.4	6347.7	6311.9	6397.5	6910.9	7183.5	7834.2	8019.2	6622.3
30°	6705.9	6725.8	6672.1	6584.5	6502.9	6417.4	6793.5	7054.1	7814.3	8130.7	6618.4
32.5°	6976.5	7018.3	6988.5	6930.8	6825.3	6622.3	6827.3	7058.1	7862.0	8291.9	6668.1
35°	7310.8	7358.6	7386.5	7374.5	7239.2	6986.5	7042.2	7237.2	7989.4	8588.3	6803.4
37.5°	7639.2	7681.0	7838.2	7891.9	7772.5	7533.7	7460.1	7589.4	8270.0	8976.4	7048.2
40°	8015.3	8071.0	8291.9	8496.8	8439.1	8188.4	8053.1	8160.5	8699.8	9561.4	7511.8
42.5°	8375.4	8474.9	8811.2	9173.4	9227.1	8946.5	8857.0	8892.8	9336.5	10403.1	8158.5
45°	8886.8	8980.4	9414.1	9905.6	10158.4	9939.5	9847.9	9842.0	10210.1	11587.1	9207.2
47.5°	9625.1	9708.6	10220.1	10705.6	11155.3	11185.1	11012.0	11071.7	11308.5	12972.1	10492.7
50°	10530.5	10727.5	11063.8	11569.2	12170.1	12655.7	12709.4	12629.8	12832.8	14575.9	12036.8
52.5°	11845.8	11921.4	12229.8	12645.7	13350.1	14174.0	14812.7	14703.3	14639.6	16104.1	13596.9
55°	12826.8	12928.3	13407.8	13978.9	15011.7	16098.2	17483.1	17520.9	16717.0	17572.7	15123.1
57.5°	12530.3	12685.5	13411.8	14560.0	16830.4	18816.4	19847.1	19873.0	18639.3	18999.4	16846.4
60°	11008.0	11081.7	12122.4	13654.6	16985.7	21761.4	23200.1	22991.1	20595.3	20595.3	18368.6
62.5°	7806.3	7921.7	8765.4	11020.0	15340.0	22784.2	27215.7	26783.9	23289.6	22121.6	19276.0
65°	4988.6	4877.2	5436.4	6956.6	11427.9	21273.9	30711.9	30737.8	25824.7	22732.4	18780.5
67°	3613.6	3569.9	3731.0	4755.8	7748.6	17883.1	30785.5	32148.6	27281.3	22346.4	17196.6
67.5°	3305.2	3339.0	3456.4	4290.2	7040.2	16273.3	30451.2	32065.0	27609.7	22113.6	16623.5
70°	2505.3	2447.6	2574.9	3034.6	4220.5	10265.8	26194.8	29408.5	27201.7	19803.3	13282.5
72.5°	1842.6	1836.7	2013.8	2481.4	3249.5	5468.2	19664.0	23580.1	22223.0	15079.3	8363.5
75°	1243.7	1299.4	1582.0	2073.5	2945.0	3546.0	13405.9	17107.0	15427.6	8562.5	3418.6
77.5°	708.4	712.4	1018.8	1665.5	2644.6	2853.5	7943.6	10898.6	8166.5	2847.5	1014.8
80°	306.4	336.3	505.4	1209.9	2192.9	2527.2	4554.8	5989.6	3303.2	602.9	328.3
82.5°	113.4	133.3	222.9	744.2	1599.9	2081.4	2752.0	2859.5	1120.3	212.9	205.0
85°	0.0	4.0	81.6	348.2	833.8	929.3	1838.7	1695.4	495.5	101.5	133.3
87.5°	0.0	0.0	0.0	35.8	109.4	346.2	571.1	636.8	119.4	35.8	31.8
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°	7893.9	7893.9	7893.9	7893.9	7893.9	7893.9	7893.9	7893.9	7893.9	7893.9	7893.9
2.5°	7834.2	7704.8	7380.5	7056.1	6815.4	6614.4	6311.9	6146.8	6059.2	5929.9	5937.8
5°	7637.2	7374.5	6803.4	6212.4	5734.8	5269.2	4712.0	4487.2	4298.2	4190.7	4119.1
7.5°	7344.7	6956.6	6110.9	5322.9	4588.7	3774.8	3163.9	2756.0	2481.4	2379.9	2282.4
10°	7024.3	6508.9	5408.5	4316.1	3297.2	2457.5	1940.1	1566.0	1432.7	1309.3	1321.3
12.5°	6727.8	6101.0	4763.8	3406.7	2310.3	1562.1	1217.8	1064.6	1020.8	1006.9	1006.9
15°	6485.0	5711.0	4071.3	2561.0	1583.9	1122.3	975.0	933.3	917.3	913.4	913.4
17.5°	6226.4	5340.9	3446.5	1892.4	1152.1	939.2	889.5	861.6	855.7	851.7	851.7
20°	5995.5	4968.7	2853.5	1408.8	931.3	845.7	813.9	796.0	790.0	786.0	788.0
22.5°	5776.6	4638.4	2296.3	1064.6	819.8	770.1	738.2	720.3	708.4	698.4	700.4
25°	5581.6	4320.0	1846.6	871.6	738.2	694.5	662.6	636.8	610.9	599.0	597.0
27.5°	5444.3	4041.5	1438.7	746.2	664.6	616.9	577.1	545.2	511.4	493.5	489.5
30°	5330.9	3758.9	1138.2	658.7	591.0	545.2	495.5	449.7	413.9	396.0	388.0
32.5°	5257.3	3490.3	897.4	587.0	529.3	473.6	417.9	372.1	332.3	314.4	310.4
35°	5245.3	3265.4	734.3	527.3	473.6	413.9	356.2	306.4	272.6	254.7	250.7
37.5°	5330.9	3092.3	614.9	479.6	427.8	362.2	298.5	252.7	222.9	208.9	206.9
40°	5559.7	2982.8	533.3	439.8	386.0	314.4	254.7	214.9	185.1	171.1	171.1
42.5°	5995.5	2986.8	479.6	402.0	344.3	268.6	216.9	179.1	153.2	141.3	137.3
45°	6676.1	3122.1	433.8	364.1	304.5	232.8	185.1	147.3	121.4	111.4	111.4
47.5°	7587.4	3390.8	394.0	326.3	268.6	199.0	157.2	119.4	97.5	87.6	87.6
50°	8779.4	3822.6	360.2	294.5	238.8	171.1	127.4	97.5	75.6	67.7	65.7
52.5°	10025.0	4355.9	320.4	266.6	205.0	145.3	103.5	75.6	57.7	51.7	49.7
55°	11400.1	4877.2	282.6	238.8	167.2	121.4	81.6	59.7	41.8	35.8	35.8
57.5°	12787.0	5388.6	236.8	199.0	131.3	89.5	63.7	43.8	27.9	21.9	21.9
60°	13961.0	5553.8	201.0	161.2	99.5	63.7	45.8	27.9	15.9	9.9	9.9
62.5°	14122.2	4996.6	169.1	123.4	71.6	43.8	23.9	15.9	6.0	4.0	4.0
65°	13246.7	4059.4	141.3	93.5	47.8	21.9	9.9	6.0	2.0	0.0	0.0
67°	11869.7	3291.3	115.4	69.6	33.8	13.9	6.0	2.0	0.0	0.0	0.0
67.5°	11517.5	3138.0	111.4	65.7	29.8	11.9	4.0	2.0	0.0	0.0	0.0
70°	9038.1	2350.1	79.6	39.8	17.9	8.0	0.0	0.0	0.0	0.0	0.0
72.5°	5617.4	1329.2	57.7	23.9	11.9	4.0	0.0	0.0	0.0	0.0	0.0
75°	2123.2	465.6	39.8	15.9	8.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	660.6	177.1	23.9	11.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	222.9	67.7	15.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	137.3	27.9	9.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	85.6	11.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.9	4.0	2.0	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)