

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: P456286

Luminaire Tested: **GALN-SA7C-740-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40077 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

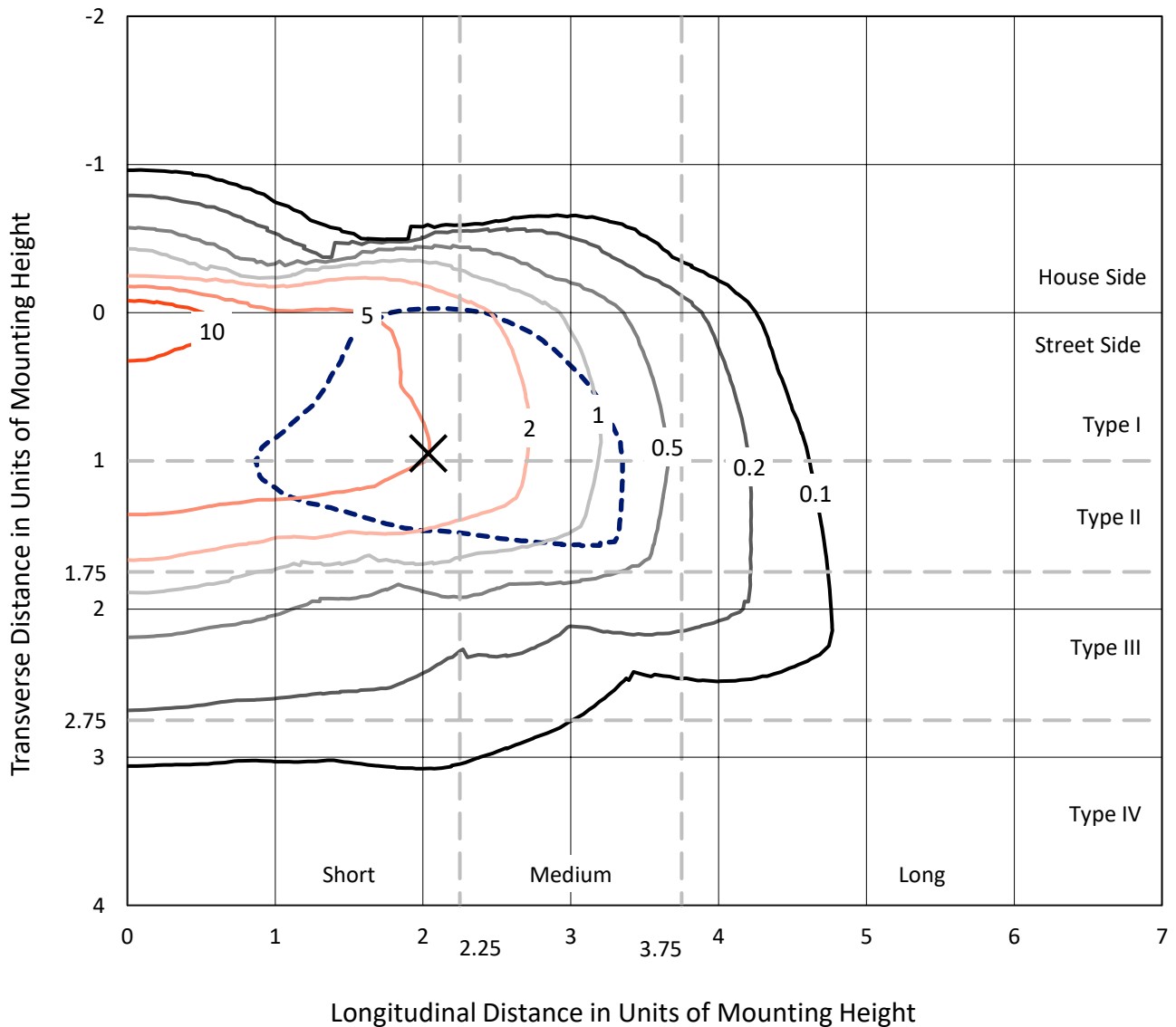
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

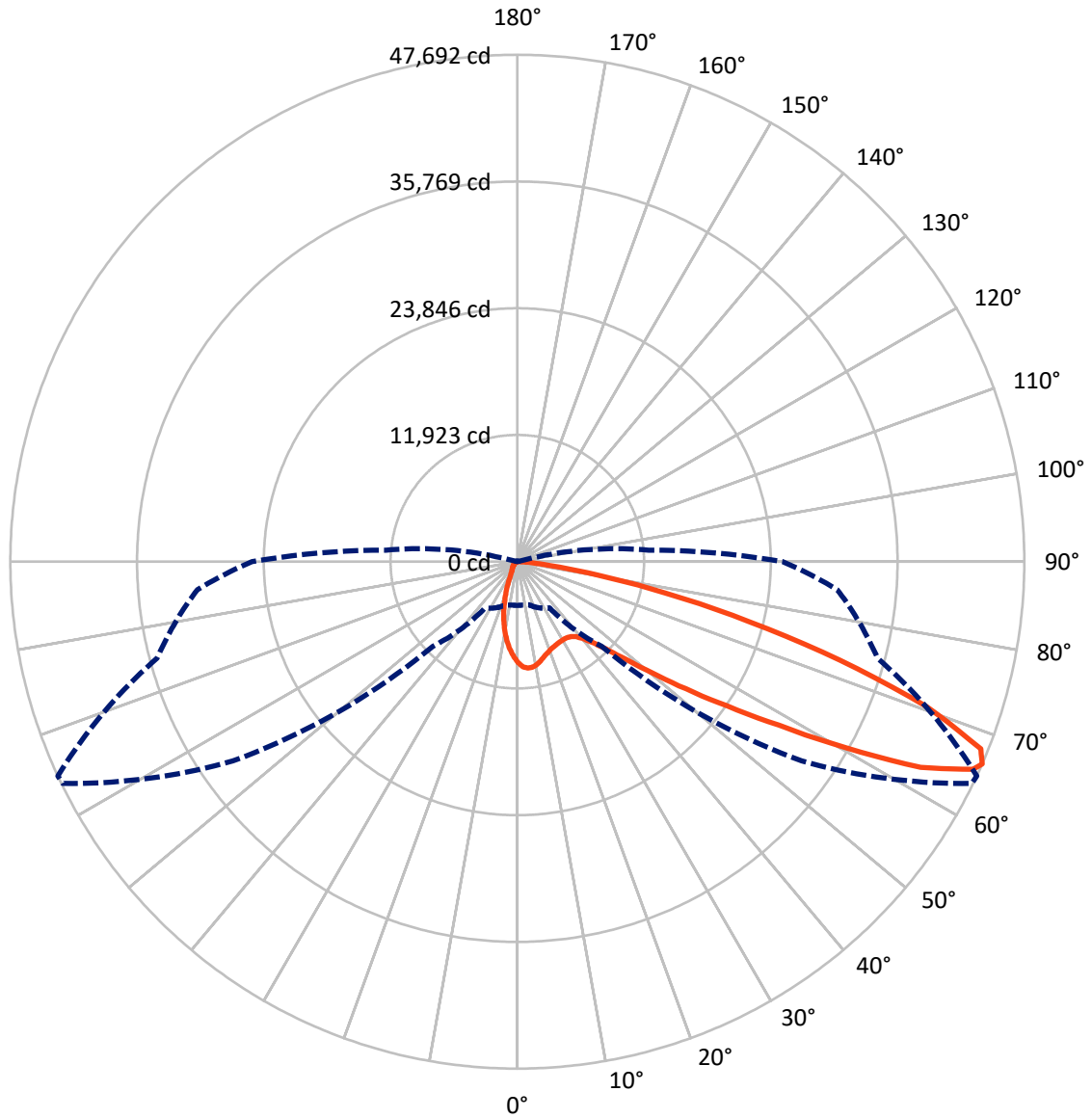
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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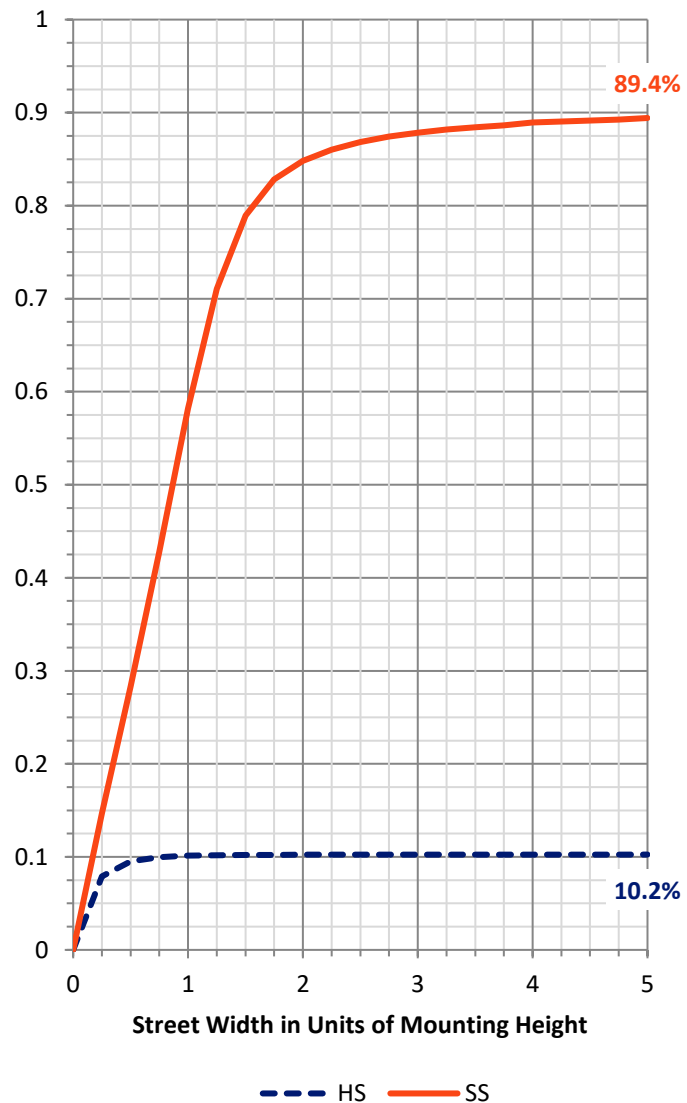
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4144.5	0.0	4144.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	35932.5	0.0	35932.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	40077.0	0.0	40077.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	777.3	1.9
10°-20°	1693.5	4.2
20°-30°	2426.0	6.1
30°-40°	3543.4	8.8
40°-50°	5941.6	14.8
50°-60°	9915.6	24.7
60°-70°	10525.1	26.3
70°-80°	4766.8	11.9
80°-90°	487.7	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°	40077.0	100.0
0°-180°	40077.0	100.0



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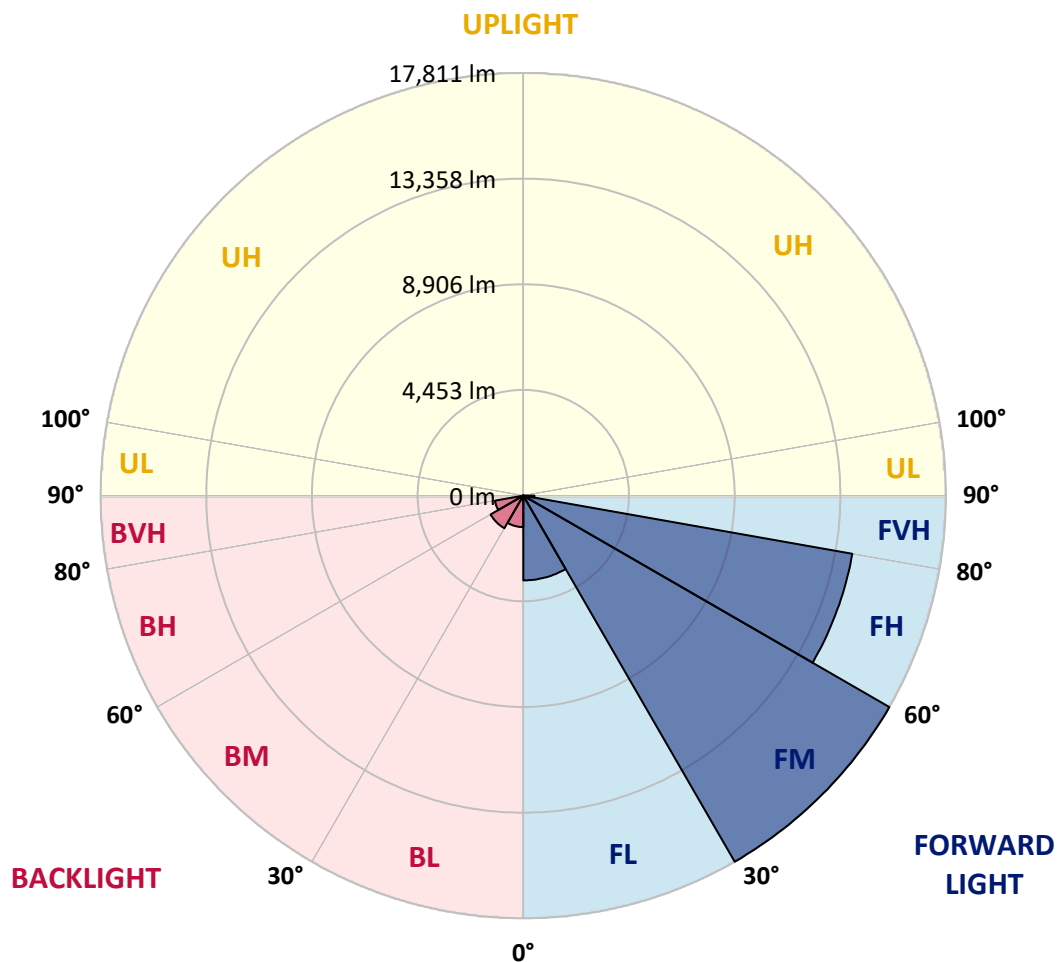
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3571.0	8.9			
FM	(30°-60°)	17811.1	44.4			
FH	(60°-80°)	14078.1	35.1			G5
FVH	(80°-90°)	472.2	1.2			G3/500
BL	(0°-30°)	1325.8	3.3	B3/2500		
BM	(30°-60°)	1589.5	4.0	B2/2500		
BH	(60°-80°)	1213.7	3.0	B3/2500		G3/2500
BVH	(80°-90°)	15.5	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	9503.7	9503.7	9503.7	9503.7	9503.7	9503.7	9503.7	9503.7	9503.7	9503.7	9503.7
2.5°	10015.3	10026.2	10039.7	10058.6	10072.2	10031.6	9974.7	9909.8	9896.2	9758.2	9590.4
5°	9479.4	9495.6	9614.7	9679.7	9825.8	9958.5	10042.4	10053.2	10047.8	9917.9	9649.9
7.5°	8716.0	8762.1	8878.5	8992.1	9265.5	9517.3	9815.0	10023.4	10037.0	10001.8	9668.9
10°	8096.2	8126.0	8185.5	8410.2	8637.5	9021.9	9438.8	9831.3	9863.7	10004.5	9652.6
12.5°	7611.6	7655.0	7728.0	7901.3	8174.7	8537.4	9011.1	9538.9	9606.6	9953.1	9606.6
15°	7273.3	7294.9	7368.0	7538.6	7803.8	8139.5	8618.6	9233.1	9292.6	9885.4	9598.5
17.5°	7113.6	7138.0	7189.4	7324.7	7544.0	7855.3	8323.6	8986.7	9062.5	9842.1	9628.2
20°	7156.9	7178.6	7181.3	7251.6	7400.5	7663.1	8107.0	8756.6	8854.1	9815.0	9677.0
22.5°	7403.2	7405.9	7373.4	7341.0	7392.4	7581.9	7974.4	8610.5	8710.6	9809.6	9733.8
25°	7771.4	7779.5	7725.3	7611.6	7508.8	7606.2	7944.6	8515.7	8605.1	9796.1	9769.0
27.5°	8280.2	8277.5	8261.3	8071.8	7779.5	7714.5	7969.0	8464.3	8540.1	9758.2	9782.5
30°	8992.1	8970.5	8935.3	8721.5	8274.8	7977.1	8071.8	8431.8	8502.2	9704.0	9747.4
32.5°	9693.2	9774.4	9769.0	9566.0	9008.4	8445.4	8285.7	8475.1	8526.6	9668.9	9695.9
35°	10510.7	10508.0	10716.4	10640.6	9988.3	9043.6	8651.1	8618.6	8659.2	9693.2	9671.6
37.5°	11268.6	11339.0	11663.8	11742.3	11146.8	9888.1	9168.1	8927.2	8940.7	9858.3	9731.1
40°	12213.3	12348.6	12833.2	13095.7	12570.6	11141.4	9931.4	9492.9	9495.6	10264.4	9955.8
42.5°	13431.4	13645.2	14097.3	14535.8	14254.2	12624.7	11076.4	10388.9	10383.5	10979.0	10470.1
45°	14912.0	15060.9	15575.2	16270.8	16092.2	14695.5	12743.8	11777.5	11707.1	12151.0	11382.3
47.5°	16189.6	16392.7	16915.1	17708.2	18520.2	17223.7	14736.1	13685.8	13639.8	14016.0	12946.8
50°	16747.3	16925.9	17475.4	18587.9	20555.8	20542.3	17702.8	16471.2	16392.7	16595.7	15366.8
52.5°	16135.5	16303.3	16858.2	18244.1	21514.0	24586.3	22001.2	19965.7	19871.0	19611.1	18257.7
55°	14040.4	14178.5	14998.6	16590.3	21145.9	27282.3	27923.8	24283.1	23915.0	22905.3	21530.2
57.5°	11179.3	11108.9	11617.8	13466.6	18985.8	28186.4	34003.4	29661.6	29003.9	25752.9	24299.4
60°	7747.0	7963.5	8169.3	9387.3	14275.9	26619.1	37784.9	36423.3	35557.1	28554.5	26952.1
62.5°	5695.2	5838.7	5974.0	6537.0	8975.9	21254.2	38453.4	43369.1	42600.3	31529.3	29483.0
65°	4504.2	4515.0	4569.2	5124.1	5914.5	13821.2	35240.4	47285.9	47088.3	34393.2	30508.9
66°	4103.6	4106.3	4190.2	4785.7	5308.1	11255.1	32666.2	47583.6	47691.9	35080.7	30208.4
67.5°	3586.6	3575.7	3697.6	4301.2	4834.4	8115.1	28059.2	46376.4	47017.9	35608.6	29128.4
70°	2779.9	2766.4	2915.3	3608.2	4452.8	5413.7	18650.2	39820.4	40854.4	34528.5	25771.9
72.5°	1851.5	1862.3	2116.8	2847.6	4249.7	4766.8	11219.9	30292.3	31754.0	28513.9	20274.3
75°	1080.0	1099.0	1388.6	2116.8	3689.4	4544.8	6350.3	21600.6	22534.5	19689.6	12630.1
77.5°	565.7	573.9	776.9	1396.7	2828.7	4220.0	4230.8	13799.5	14238.0	9568.7	4999.5
80°	300.5	292.3	416.9	841.8	1946.2	3705.7	3432.3	7305.8	7595.4	2842.2	1264.1
82.5°	113.7	124.5	222.0	552.2	1150.4	2660.8	2955.9	3229.3	3129.1	625.3	530.5
85°	21.7	27.1	94.7	327.5	579.3	1112.5	2179.0	1583.5	1467.1	235.5	305.9
87.5°	2.7	5.4	27.1	78.5	83.9	376.3	644.2	438.5	379.0	86.6	127.2
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°	9503.7	9503.7	9503.7	9503.7	9503.7	9503.7	9503.7	9503.7	9503.7	9503.7	9503.7
2.5°	9509.1	9436.1	9192.4	8951.5	8705.2	8483.3	8331.7	8085.3	8023.1	7933.8	7882.3
5°	9490.2	9319.7	8851.4	8339.8	7863.4	7349.1	6956.6	6577.6	6374.6	6271.8	6233.9
7.5°	9436.1	9165.4	8434.5	7633.3	6870.0	6101.2	5432.6	4923.8	4596.2	4371.6	4220.0
10°	9327.8	8954.2	7950.0	6848.3	5695.2	4680.1	3832.9	3188.7	2690.6	2533.6	2539.0
12.5°	9216.8	8718.7	7408.6	5976.7	4547.5	3267.2	2368.5	1859.6	1621.4	1542.9	1526.7
15°	9113.9	8494.1	6878.1	5132.2	3386.3	2116.8	1526.7	1348.0	1283.0	1269.5	1266.8
17.5°	9059.8	8285.7	6312.4	4165.8	2363.1	1437.3	1223.5	1174.8	1155.8	1142.3	1136.9
20°	9013.8	8104.3	5771.0	3261.7	1616.0	1177.5	1096.3	1050.3	1017.8	1004.2	996.1
22.5°	8981.3	7917.5	5210.7	2525.5	1237.0	1044.8	971.8	912.2	866.2	849.9	839.1
25°	8932.6	7711.8	4644.9	1846.1	1042.1	928.4	844.5	774.2	714.6	684.8	679.4
27.5°	8862.2	7479.0	4025.1	1367.0	931.2	825.6	722.7	636.1	576.6	544.1	546.8
30°	8748.5	7235.4	3405.2	1085.4	841.8	720.0	609.0	525.1	468.3	443.9	441.2
32.5°	8613.2	6940.4	2836.8	931.2	760.6	625.3	508.9	435.8	392.5	373.5	370.8
35°	8486.0	6642.6	2257.5	836.4	676.7	538.7	427.7	365.4	332.9	316.7	319.4
37.5°	8415.6	6377.3	1759.4	760.6	609.0	462.9	368.1	314.0	284.2	270.7	268.0
40°	8461.6	6160.8	1399.4	693.0	533.2	397.9	316.7	270.7	240.9	222.0	222.0
42.5°	8678.1	6066.0	1128.8	628.0	462.9	343.8	276.1	232.8	200.3	181.4	184.1
45°	9338.6	6166.2	944.7	568.4	397.9	297.8	238.2	192.2	162.4	148.9	146.2
47.5°	10434.9	6542.4	817.5	506.2	341.1	254.4	200.3	159.7	129.9	119.1	116.4
50°	12351.3	7319.3	722.7	443.9	289.6	216.5	165.1	127.2	102.9	92.0	92.0
52.5°	14987.8	9013.8	655.1	373.5	243.6	184.1	135.3	102.9	81.2	73.1	70.4
55°	17743.4	10800.3	619.9	314.0	203.0	151.6	108.3	81.2	62.3	54.1	51.4
57.5°	20393.4	12202.5	579.3	254.4	162.4	116.4	83.9	62.3	43.3	37.9	35.2
60°	22935.1	13336.6	492.6	203.0	127.2	83.9	62.3	43.3	29.8	24.4	24.4
62.5°	25208.9	13997.1	387.1	162.4	97.4	59.6	40.6	32.5	21.7	16.2	16.2
65°	25474.1	13139.0	292.3	124.5	70.4	37.9	24.4	24.4	16.2	10.8	10.8
66°	24940.9	12410.9	257.2	113.7	62.3	32.5	21.7	18.9	13.5	8.1	8.1
67.5°	23749.9	11168.4	222.0	97.4	51.4	24.4	16.2	16.2	10.8	5.4	5.4
70°	20520.6	9122.1	175.9	73.1	37.9	18.9	10.8	10.8	8.1	5.4	5.4
72.5°	15640.2	6810.4	143.5	54.1	27.1	13.5	8.1	8.1	8.1	5.4	5.4
75°	9433.4	3667.8	111.0	40.6	24.4	10.8	5.4	8.1	10.8	8.1	5.4
77.5°	3475.6	1247.9	86.6	32.5	18.9	10.8	5.4	5.4	10.8	8.1	8.1
80°	852.7	324.8	62.3	27.1	18.9	10.8	5.4	5.4	10.8	10.8	10.8
82.5°	395.2	138.0	43.3	24.4	18.9	10.8	5.4	5.4	8.1	10.8	10.8
85°	227.4	65.0	35.2	27.1	18.9	10.8	5.4	5.4	8.1	10.8	10.8
87.5°	92.0	32.5	32.5	27.1	21.7	13.5	5.4	5.4	5.4	8.1	8.1
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)