

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: P456228

Luminaire Tested: **GALN-SA7C-727-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456228
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-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 33517 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

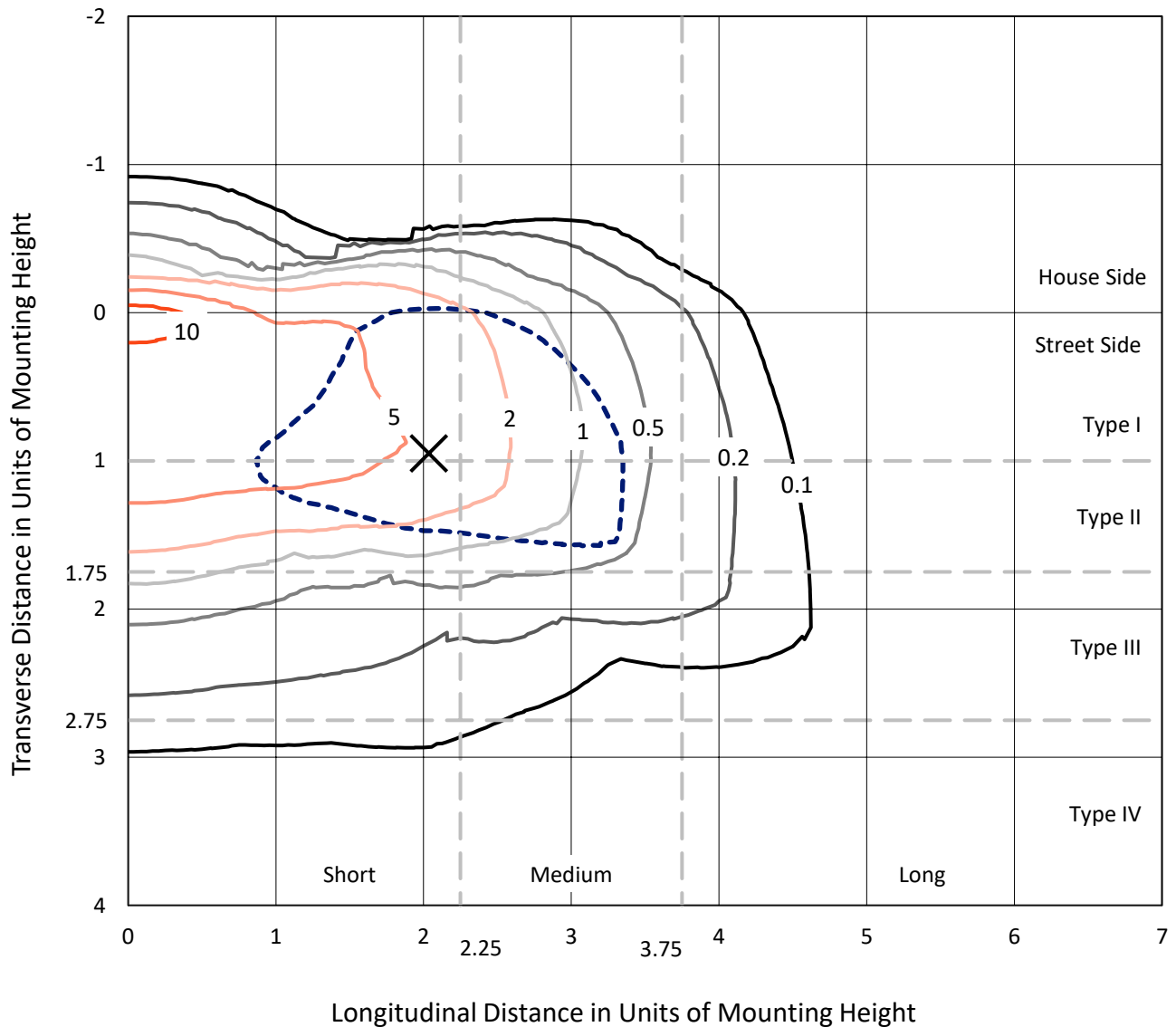
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

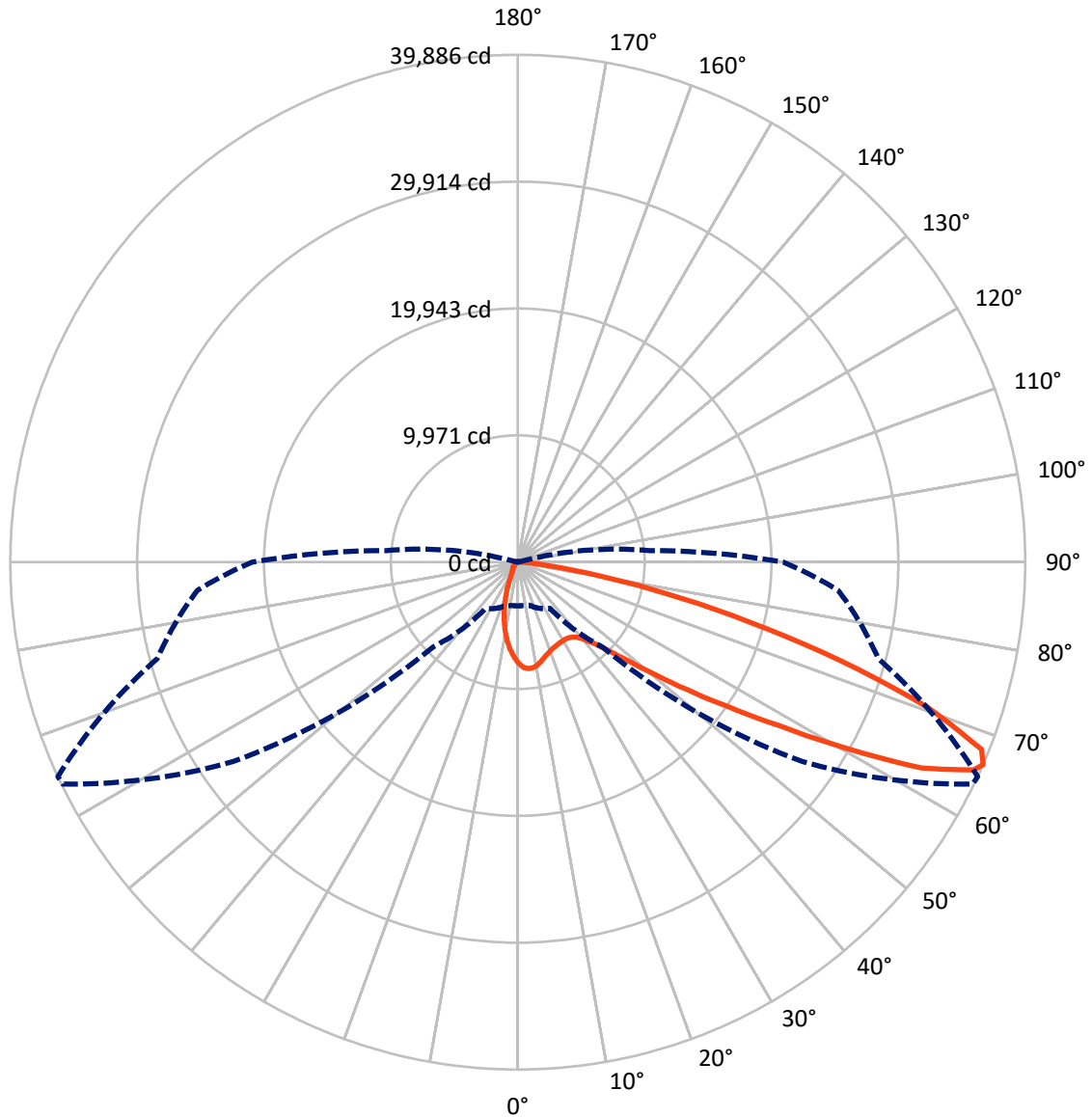
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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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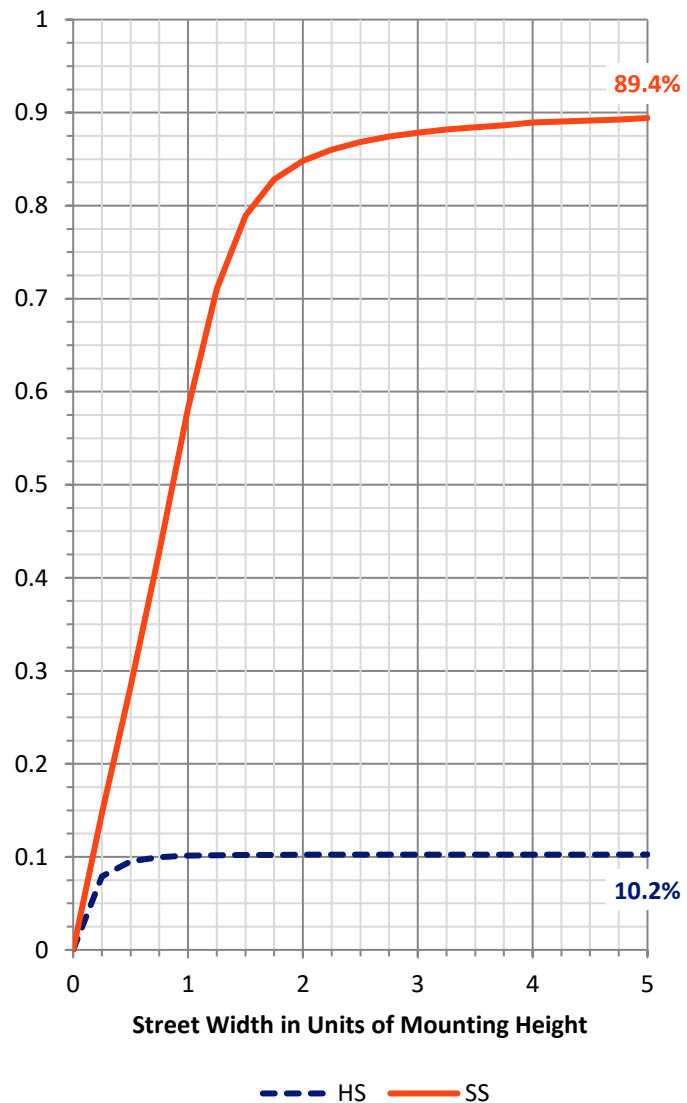
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3466.1	0.0	3466.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	30050.9	0.0	30050.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	33517.0	0.0	33517.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.0	1.9
10°-20°	1416.3	4.2
20°-30°	2028.9	6.1
30°-40°	2963.4	8.8
40°-50°	4969.1	14.8
50°-60°	8292.6	24.7
60°-70°	8802.3	26.3
70°-80°	3986.5	11.9
80°-90°	407.9	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°	33517.0	100.0
0°-180°	33517.0	100.0



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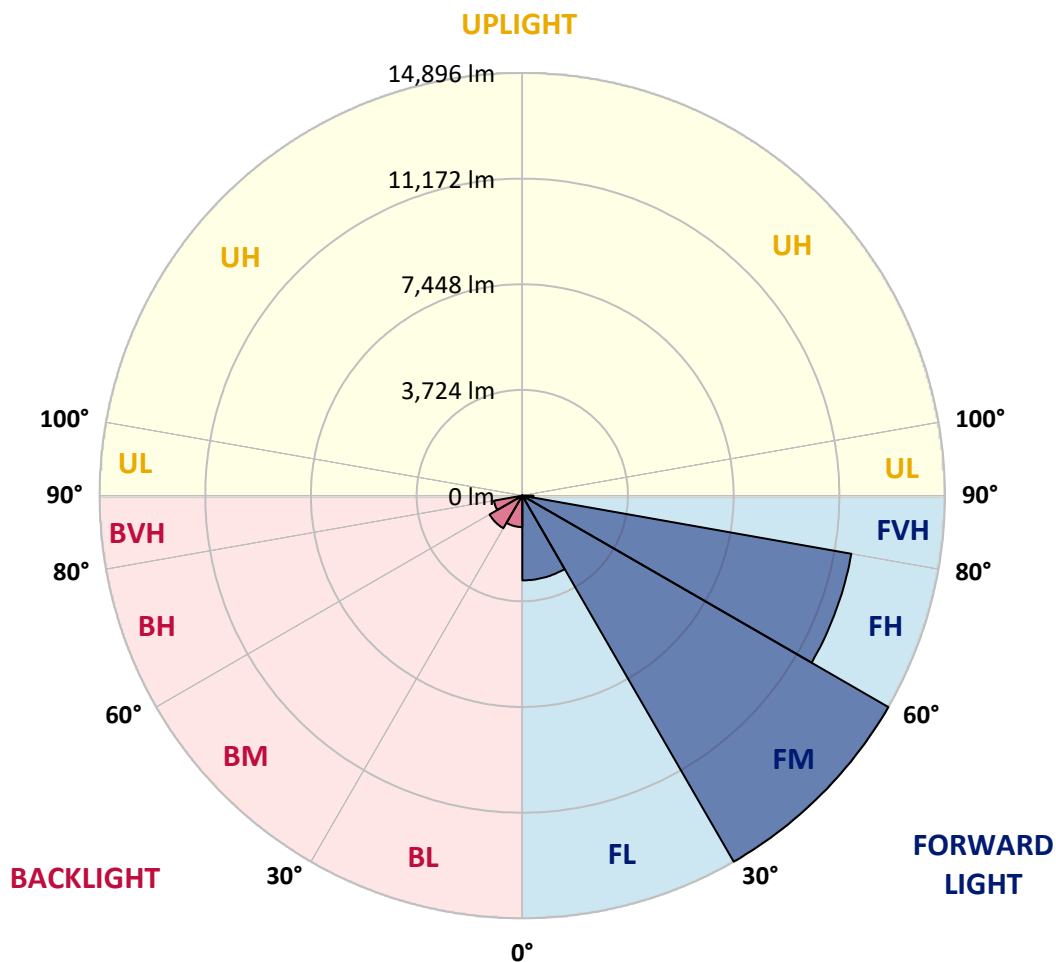
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2986.5	8.9			
FM	(30°-60°)	14895.7	44.4			
FH	(60°-80°)	11773.8	35.1			G4/12000
FVH	(80°-90°)	394.9	1.2			G3/500
BL	(0°-30°)	1108.8	3.3	B3/2500		
BM	(30°-60°)	1329.3	4.0	B2/2500		
BH	(60°-80°)	1015.1	3.0	B3/2500		G3/2500
BVH	(80°-90°)	13.0	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7948.1	7948.1	7948.1	7948.1	7948.1	7948.1	7948.1	7948.1	7948.1	7948.1	7948.1
2.5°	8376.0	8385.0	8396.3	8412.2	8423.5	8389.6	8342.0	8287.7	8276.4	8160.9	8020.6
5°	7927.7	7941.3	8040.9	8095.3	8217.5	8328.4	8398.6	8407.7	8403.1	8294.5	8070.4
7.5°	7289.4	7327.8	7425.2	7520.3	7748.9	7959.4	8208.5	8382.8	8394.1	8364.7	8086.2
10°	6771.0	6795.9	6845.7	7033.6	7223.7	7545.2	7893.8	8222.0	8249.2	8366.9	8072.6
12.5°	6365.7	6402.0	6463.1	6608.0	6836.6	7139.9	7536.1	7977.5	8034.1	8323.9	8034.1
15°	6082.8	6100.9	6162.0	6304.6	6526.5	6807.2	7207.9	7721.7	7771.5	8267.3	8027.3
17.5°	5949.2	5969.6	6012.6	6125.8	6309.1	6569.5	6961.1	7515.7	7579.1	8231.1	8052.3
20°	5985.4	6003.5	6005.8	6064.7	6189.2	6408.7	6780.0	7323.3	7404.8	8208.5	8093.0
22.5°	6191.4	6193.7	6166.5	6139.4	6182.4	6340.8	6669.1	7201.1	7284.8	8203.9	8140.5
25°	6499.3	6506.1	6460.8	6365.7	6279.7	6361.2	6644.2	7121.8	7196.5	8192.6	8170.0
27.5°	6924.9	6922.6	6909.0	6750.6	6506.1	6451.8	6664.6	7078.8	7142.2	8160.9	8181.3
30°	7520.3	7502.2	7472.7	7293.9	6920.4	6671.3	6750.6	7051.7	7110.5	8115.6	8151.9
32.5°	8106.6	8174.5	8170.0	8000.2	7533.8	7063.0	6929.4	7087.9	7130.9	8086.2	8108.8
35°	8790.2	8788.0	8962.3	8898.9	8353.3	7563.3	7235.0	7207.9	7241.8	8106.6	8088.5
37.5°	9424.1	9483.0	9754.6	9820.3	9322.2	8269.6	7667.4	7465.9	7477.3	8244.7	8138.3
40°	10214.2	10327.3	10732.6	10952.1	10513.0	9317.7	8305.8	7939.1	7941.3	8584.2	8326.2
42.5°	11232.9	11411.7	11789.7	12156.5	11921.0	10558.3	9263.4	8688.4	8683.8	9181.9	8756.3
45°	12471.1	12595.6	13025.8	13607.6	13458.1	12290.0	10657.9	9849.7	9790.8	10162.1	9519.2
47.5°	13539.6	13709.4	14146.3	14809.6	15488.8	14404.4	12324.0	11445.7	11407.2	11721.8	10827.6
50°	14006.0	14155.4	14614.9	15545.3	17191.1	17179.8	14805.1	13775.1	13709.4	13879.2	12851.5
52.5°	13494.4	13634.7	14098.8	15257.8	17992.5	20561.9	18400.0	16697.6	16618.4	16401.1	15269.2
55°	11742.2	11857.7	12543.6	13874.7	17684.6	22816.6	23353.1	20308.3	20000.5	19156.1	18006.1
57.5°	9349.4	9290.5	9716.1	11262.3	15878.1	23572.7	28437.6	24806.5	24256.4	21537.6	20321.9
60°	6478.9	6660.0	6832.1	7850.8	11939.2	22262.0	31600.0	30461.4	29737.0	23880.6	22540.4
62.5°	4763.0	4883.0	4996.2	5467.0	7506.7	17775.2	32159.2	36270.2	35627.3	26368.5	24657.0
65°	3766.9	3776.0	3821.3	4285.3	4946.4	11558.8	29472.1	39545.9	39380.6	28763.5	25515.0
66°	3431.9	3434.1	3504.3	4002.4	4439.3	9412.8	27319.2	39794.9	39885.5	29338.5	25263.7
67.5°	2999.5	2990.4	3092.3	3597.1	4043.1	6786.8	23466.3	38785.3	39321.8	29780.0	24360.5
70°	2324.9	2313.6	2438.1	3017.6	3723.9	4527.6	15597.4	33302.4	34167.2	28876.7	21553.4
72.5°	1548.4	1557.5	1770.3	2381.5	3554.1	3986.5	9383.4	25333.9	26556.4	23846.6	16955.7
75°	903.2	919.1	1161.3	1770.3	3085.5	3800.9	5310.8	18064.9	18845.9	16466.7	10562.8
77.5°	473.1	479.9	649.7	1168.1	2365.6	3529.2	3538.3	11540.7	11907.5	8002.4	4181.2
80°	251.3	244.5	348.6	704.0	1627.7	3099.1	2870.5	6109.9	6352.2	2377.0	1057.2
82.5°	95.1	104.1	185.6	461.8	962.1	2225.3	2472.0	2700.7	2616.9	522.9	443.7
85°	18.1	22.6	79.2	273.9	484.4	930.4	1822.3	1324.3	1227.0	196.9	255.8
87.5°	2.3	4.5	22.6	65.6	70.2	314.7	538.8	366.7	316.9	72.4	106.4
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°	7948.1	7948.1	7948.1	7948.1	7948.1	7948.1	7948.1	7948.1	7948.1	7948.1	7948.1
2.5°	7952.6	7891.5	7687.8	7486.3	7280.3	7094.7	6967.9	6761.9	6709.8	6635.1	6592.1
5°	7936.8	7794.2	7402.5	6974.7	6576.3	6146.2	5817.9	5501.0	5331.2	5245.2	5213.5
7.5°	7891.5	7665.1	7053.9	6383.8	5745.5	5102.6	4543.4	4117.8	3843.9	3656.0	3529.2
10°	7801.0	7488.6	6648.7	5727.4	4763.0	3914.1	3205.5	2666.7	2250.2	2118.9	2123.4
12.5°	7708.2	7291.6	6196.0	4998.4	3803.1	2732.4	1980.8	1555.2	1356.0	1290.4	1276.8
15°	7622.1	7103.7	5752.3	4292.1	2832.0	1770.3	1276.8	1127.4	1073.0	1061.7	1059.4
17.5°	7576.9	6929.4	5279.1	3484.0	1976.3	1202.1	1023.2	982.5	966.6	955.3	950.8
20°	7538.4	6777.7	4826.4	2727.8	1351.5	984.7	916.8	878.3	851.2	839.9	833.1
22.5°	7511.2	6621.5	4357.8	2112.1	1034.5	873.8	812.7	762.9	724.4	710.8	701.8
25°	7470.5	6449.5	3884.6	1543.9	871.6	776.5	706.3	647.4	597.6	572.7	568.2
27.5°	7411.6	6254.8	3366.2	1143.2	778.7	690.5	604.4	532.0	482.2	455.0	457.3
30°	7316.5	6051.1	2847.8	907.8	704.0	602.2	509.3	439.2	391.6	371.3	369.0
32.5°	7203.3	5804.3	2372.4	778.7	636.1	522.9	425.6	364.5	328.2	312.4	310.1
35°	7096.9	5555.3	1888.0	699.5	565.9	450.5	357.7	305.6	278.4	264.9	267.1
37.5°	7038.1	5333.5	1471.5	636.1	509.3	387.1	307.9	262.6	237.7	226.4	224.1
40°	7076.6	5152.4	1170.4	579.5	446.0	332.8	264.9	226.4	201.5	185.6	185.6
42.5°	7257.7	5073.1	944.0	525.2	387.1	287.5	230.9	194.7	167.5	151.7	153.9
45°	7810.0	5156.9	790.1	475.4	332.8	249.0	199.2	160.7	135.8	124.5	122.2
47.5°	8726.9	5471.5	683.7	423.3	285.2	212.8	167.5	133.6	108.7	99.6	97.3
50°	10329.6	6121.2	604.4	371.3	242.2	181.1	138.1	106.4	86.0	77.0	77.0
52.5°	12534.5	7538.4	547.8	312.4	203.7	153.9	113.2	86.0	67.9	61.1	58.9
55°	14839.1	9032.5	518.4	262.6	169.8	126.8	90.6	67.9	52.1	45.3	43.0
57.5°	17055.3	10205.1	484.4	212.8	135.8	97.3	70.2	52.1	36.2	31.7	29.4
60°	19181.0	11153.6	412.0	169.8	106.4	70.2	52.1	36.2	24.9	20.4	20.4
62.5°	21082.5	11706.0	323.7	135.8	81.5	49.8	34.0	27.2	18.1	13.6	13.6
65°	21304.4	10988.4	244.5	104.1	58.9	31.7	20.4	20.4	13.6	9.1	9.1
66°	20858.4	10379.4	215.1	95.1	52.1	27.2	18.1	15.8	11.3	6.8	6.8
67.5°	19862.4	9340.3	185.6	81.5	43.0	20.4	13.6	13.6	9.1	4.5	4.5
70°	17161.7	7628.9	147.1	61.1	31.7	15.8	9.1	9.1	6.8	4.5	4.5
72.5°	13080.1	5695.7	120.0	45.3	22.6	11.3	6.8	6.8	6.8	4.5	4.5
75°	7889.3	3067.4	92.8	34.0	20.4	9.1	4.5	6.8	9.1	6.8	4.5
77.5°	2906.7	1043.6	72.4	27.2	15.8	9.1	4.5	4.5	9.1	6.8	6.8
80°	713.1	271.7	52.1	22.6	15.8	9.1	4.5	4.5	9.1	9.1	9.1
82.5°	330.5	115.5	36.2	20.4	15.8	9.1	4.5	4.5	6.8	9.1	9.1
85°	190.2	54.3	29.4	22.6	15.8	9.1	4.5	4.5	6.8	9.1	9.1
87.5°	77.0	27.2	27.2	22.6	18.1	11.3	4.5	4.5	4.5	6.8	6.8
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)