

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: P455300

Luminaire Tested: **GALN-SA6C-727-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455300
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-SA6C-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 28535 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

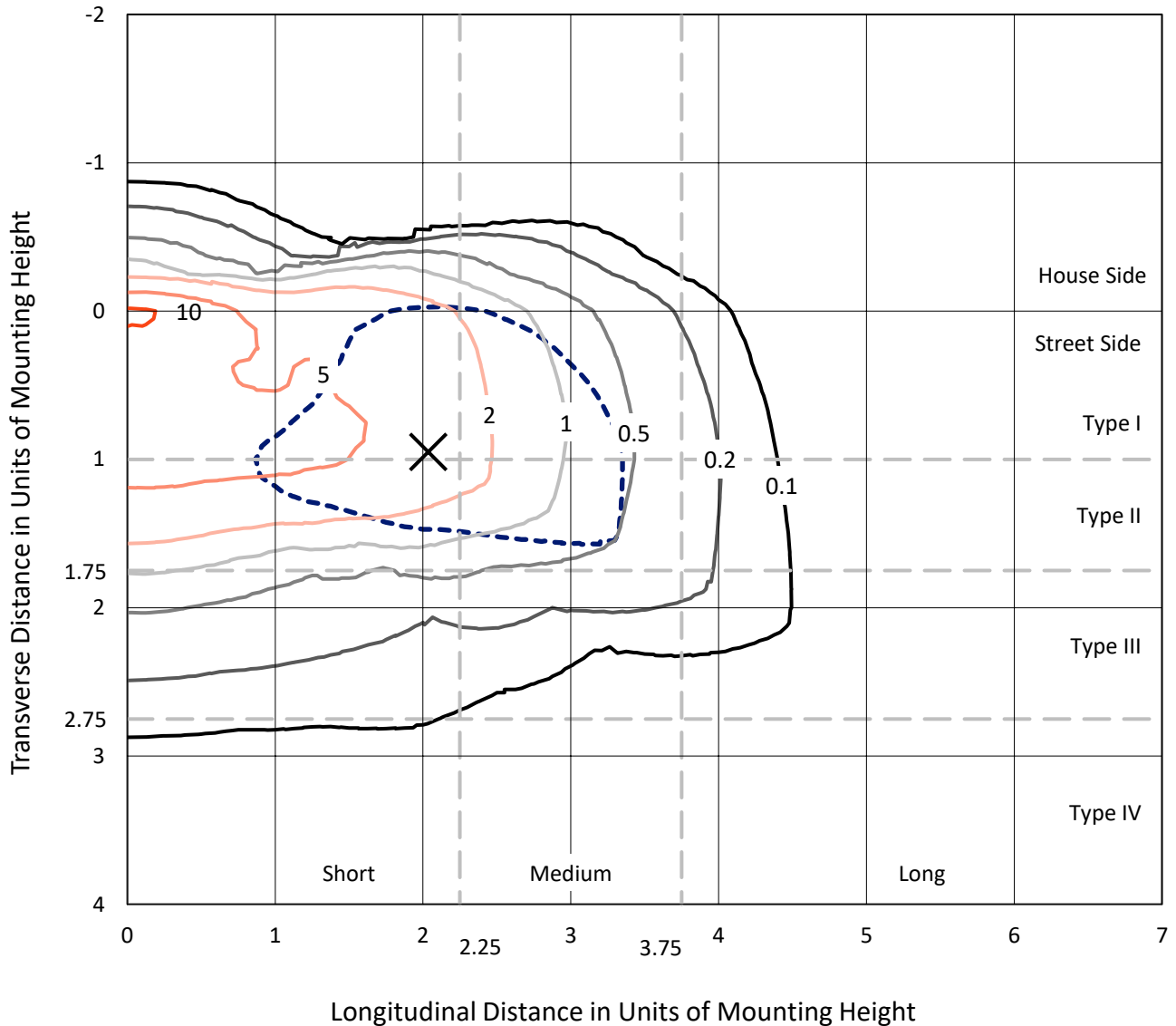
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

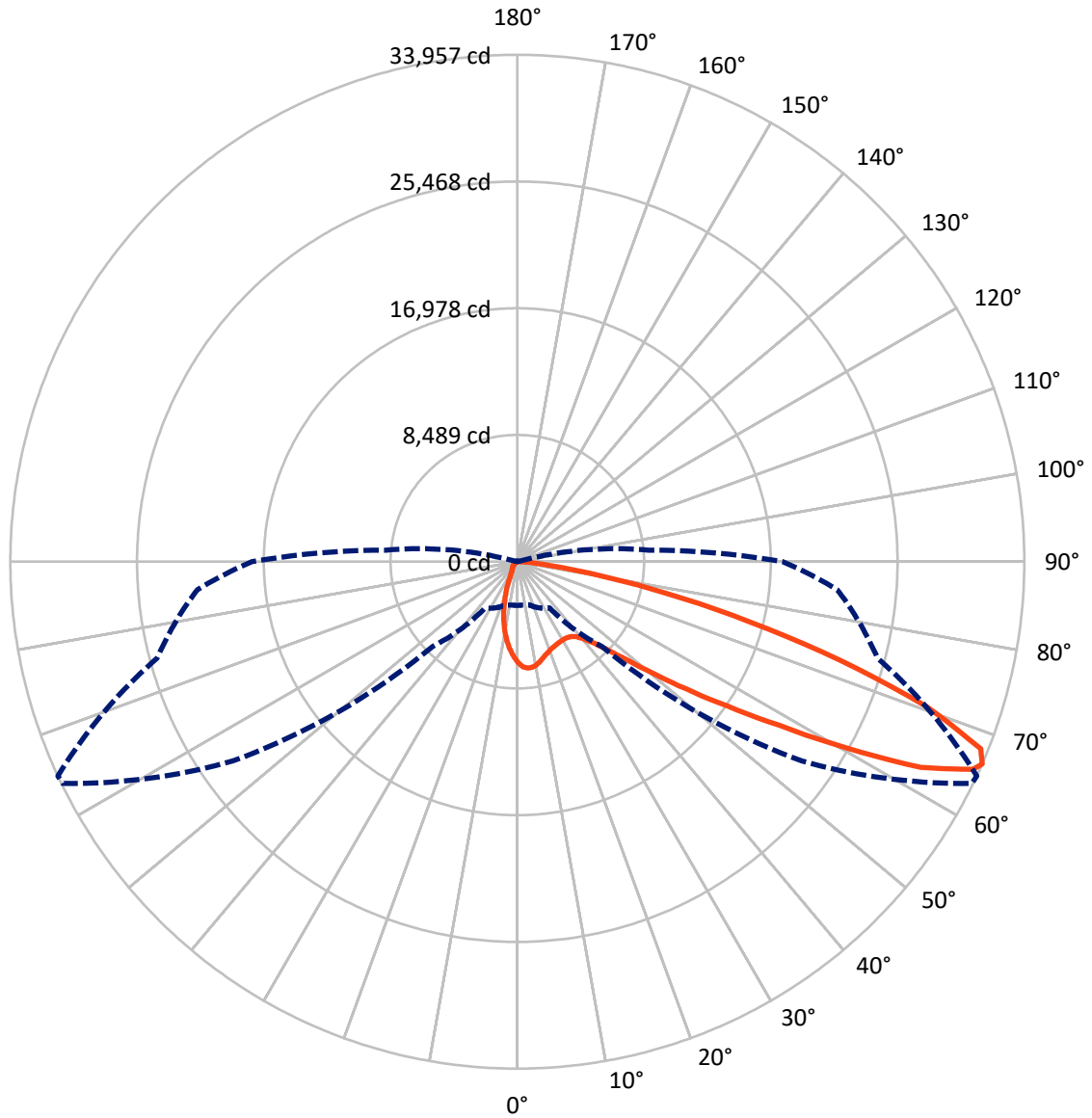
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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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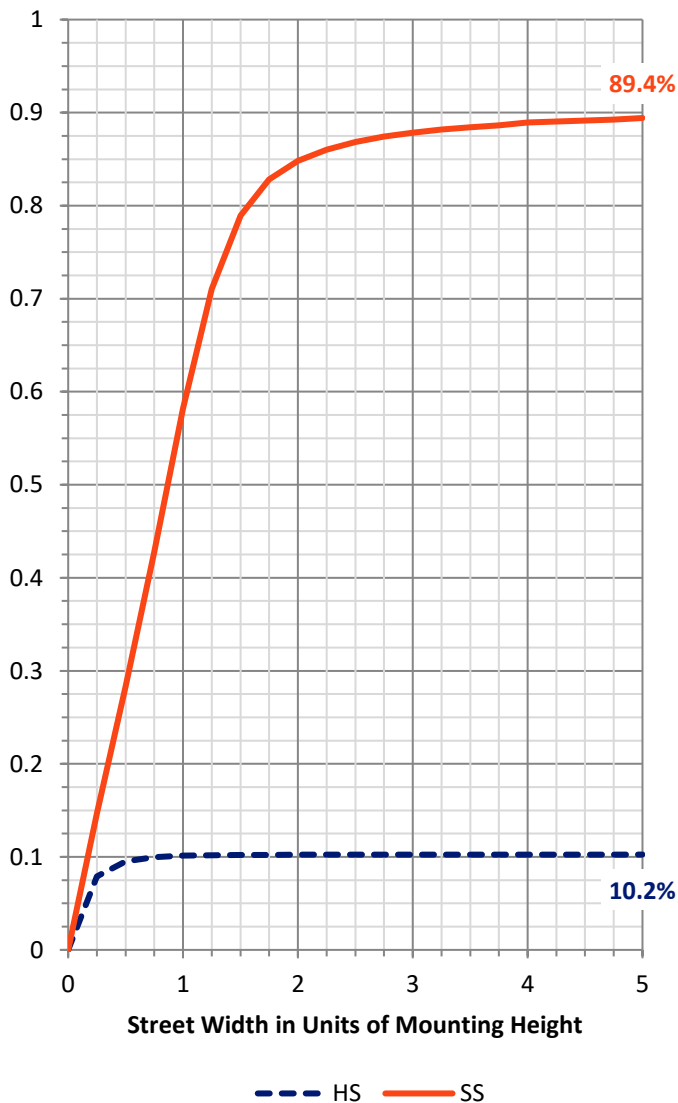
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2950.9	0.0	2950.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	25584.1	0.0	25584.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	28535.0	0.0	28535.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.4	1.9
10°-20°	1205.8	4.2
20°-30°	1727.3	6.1
30°-40°	2522.9	8.8
40°-50°	4230.4	14.8
50°-60°	7060.0	24.7
60°-70°	7493.9	26.3
70°-80°	3394.0	11.9
80°-90°	347.3	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°	28535.0	100.0
0°-180°	28535.0	100.0



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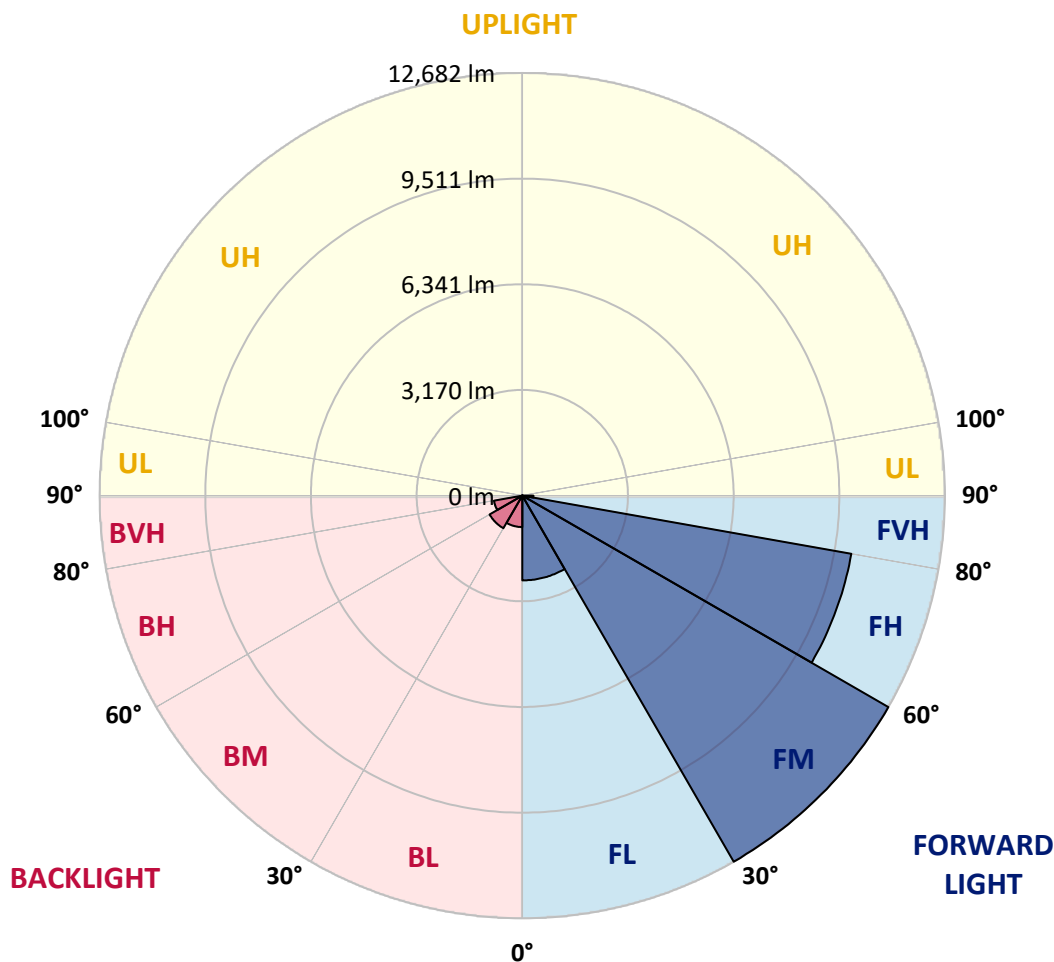
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2542.6	8.9			
FM	(30°-60°)	12681.6	44.4			
FH	(60°-80°)	10023.7	35.1			G4/12000
FVH	(80°-90°)	336.2	1.2			G3/500
BL	(0°-30°)	944.0	3.3	B2/1000		
BM	(30°-60°)	1131.7	4.0	B2/2500		
BH	(60°-80°)	864.2	3.0	B2/1000		G2/1000
BVH	(80°-90°)	11.1	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6766.7	6766.7	6766.7	6766.7	6766.7	6766.7	6766.7	6766.7	6766.7	6766.7	6766.7
2.5°	7131.0	7138.7	7148.3	7161.8	7171.4	7142.5	7102.0	7055.8	7046.2	6947.9	6828.4
5°	6749.4	6760.9	6845.7	6892.0	6996.0	7090.5	7150.2	7157.9	7154.1	7061.6	6870.8
7.5°	6205.9	6238.6	6321.5	6402.4	6597.1	6776.3	6988.3	7136.7	7146.4	7121.3	6884.3
10°	5764.5	5785.7	5828.1	5988.1	6150.0	6423.6	6720.4	6999.9	7023.0	7123.2	6872.7
12.5°	5419.5	5450.4	5502.4	5625.7	5820.4	6078.7	6415.9	6791.8	6839.9	7086.6	6839.9
15°	5178.6	5194.0	5246.1	5367.5	5556.4	5795.3	6136.5	6574.0	6616.4	7038.4	6834.2
17.5°	5064.9	5082.3	5118.9	5215.2	5371.3	5593.0	5926.4	6398.6	6452.6	7007.6	6855.4
20°	5095.7	5111.2	5113.1	5163.2	5269.2	5456.1	5772.2	6234.8	6304.2	6988.3	6890.0
22.5°	5271.1	5273.1	5249.9	5226.8	5263.4	5398.3	5677.8	6130.7	6202.0	6984.5	6930.5
25°	5533.2	5539.0	5500.5	5419.5	5346.3	5415.7	5656.6	6063.2	6126.8	6974.8	6955.6
27.5°	5895.6	5893.6	5882.1	5747.2	5539.0	5492.8	5673.9	6026.6	6080.6	6947.9	6965.2
30°	6402.4	6387.0	6362.0	6209.7	5891.7	5679.7	5747.2	6003.5	6053.6	6909.3	6940.2
32.5°	6901.6	6959.4	6955.6	6811.0	6414.0	6013.1	5899.4	6034.3	6071.0	6884.3	6903.5
35°	7483.7	7481.7	7630.1	7576.2	7111.7	6439.1	6159.6	6136.5	6165.4	6901.6	6886.2
37.5°	8023.3	8073.4	8304.7	8360.6	7936.6	7040.4	6527.7	6356.2	6365.8	7019.2	6928.6
40°	8695.9	8792.3	9137.3	9324.2	8950.3	7932.7	7071.2	6759.0	6760.9	7308.3	7088.6
42.5°	9563.2	9715.4	10037.3	10349.5	10149.1	8988.9	7886.5	7396.9	7393.1	7817.1	7454.7
45°	10617.4	10723.4	11089.6	11584.9	11457.7	10463.2	9073.7	8385.6	8335.5	8651.6	8104.2
47.5°	11527.1	11671.6	12043.6	12608.3	13186.5	12263.3	10492.1	9744.4	9711.6	9979.5	9218.2
50°	11924.1	12051.3	12442.6	13234.7	14635.8	14626.2	12604.4	11727.5	11671.6	11816.2	10941.2
52.5°	11488.6	11608.0	12003.1	12989.9	15318.1	17505.5	15665.0	14215.7	14148.2	13963.2	12999.5
55°	9996.8	10095.1	10679.1	11812.3	15056.0	19425.1	19881.9	17289.7	17027.6	16308.7	15329.6
57.5°	7959.7	7909.6	8271.9	9588.2	13518.0	20068.8	24210.6	21119.2	20650.9	18336.2	17301.2
60°	5515.9	5670.1	5816.5	6683.8	10164.5	18952.9	26903.0	25933.6	25316.8	20330.9	19190.0
62.5°	4055.0	4157.2	4253.5	4654.4	6390.9	15133.0	27379.0	30879.0	30331.6	22449.0	20992.0
65°	3207.0	3214.7	3253.3	3648.4	4211.1	9840.7	25091.3	33667.8	33527.1	24488.1	21722.4
66°	2921.8	2923.7	2983.4	3407.4	3779.4	8013.7	23258.5	33879.8	33956.9	24977.6	21508.5
67.5°	2553.7	2545.9	2632.7	3062.5	3442.1	5778.0	19978.2	33020.2	33477.0	25353.4	20739.5
70°	1979.3	1969.7	2075.7	2569.1	3170.4	3854.6	13279.0	28352.3	29088.5	24584.5	18349.7
72.5°	1318.3	1326.0	1507.1	2027.5	3025.8	3394.0	7988.6	21568.3	22609.0	20302.0	14435.4
75°	769.0	782.5	988.7	1507.1	2626.9	3235.9	4521.4	15379.7	16044.7	14019.1	8992.7
77.5°	402.8	408.6	553.1	994.5	2014.0	3004.6	3012.3	9825.3	10137.5	6813.0	3559.7
80°	213.9	208.1	296.8	599.4	1385.7	2638.5	2443.8	5201.7	5408.0	2023.7	900.0
82.5°	80.9	88.7	158.0	393.2	819.1	1894.5	2104.6	2299.3	2227.9	445.2	377.7
85°	15.4	19.3	67.5	233.2	412.4	792.1	1551.5	1127.5	1044.6	167.7	217.8
87.5°	1.9	3.9	19.3	55.9	59.7	267.9	458.7	312.2	269.8	61.7	90.6
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°	6766.7	6766.7	6766.7	6766.7	6766.7	6766.7	6766.7	6766.7	6766.7	6766.7	6766.7
2.5°	6770.6	6718.5	6545.1	6373.5	6198.2	6040.1	5932.2	5756.8	5712.5	5648.9	5612.3
5°	6757.1	6635.6	6302.2	5938.0	5598.8	5232.6	4953.1	4683.3	4538.8	4465.5	4438.5
7.5°	6718.5	6525.8	6005.4	5434.9	4891.5	4344.1	3868.1	3505.7	3272.5	3112.6	3004.6
10°	6641.4	6375.5	5660.4	4876.0	4055.0	3332.3	2729.0	2270.3	1915.7	1803.9	1807.8
12.5°	6562.4	6207.8	5275.0	4255.4	3237.8	2326.2	1686.4	1324.0	1154.4	1098.6	1087.0
15°	6489.2	6047.8	4897.2	3654.1	2411.0	1507.1	1087.0	959.8	913.5	903.9	902.0
17.5°	6450.6	5899.4	4494.4	2966.1	1682.5	1023.4	871.1	836.4	823.0	813.3	809.5
20°	6417.9	5770.3	4109.0	2322.4	1150.6	838.4	780.6	747.8	724.7	715.0	709.2
22.5°	6394.7	5637.3	3710.0	1798.2	880.8	743.9	691.9	649.5	616.7	605.2	597.5
25°	6360.0	5490.8	3307.2	1314.4	742.0	661.1	601.3	551.2	508.8	487.6	483.7
27.5°	6309.9	5325.1	2865.9	973.3	663.0	587.8	514.6	452.9	410.5	387.4	389.3
30°	6229.0	5151.6	2424.5	772.8	599.4	512.7	433.6	373.9	333.4	316.1	314.1
32.5°	6132.6	4941.6	2019.8	663.0	541.6	445.2	362.3	310.3	279.5	266.0	264.0
35°	6042.0	4729.6	1607.4	595.5	481.8	383.5	304.5	260.2	237.1	225.5	227.4
37.5°	5991.9	4540.7	1252.7	541.6	433.6	329.6	262.1	223.6	202.4	192.7	190.8
40°	6024.7	4386.5	996.4	493.4	379.7	283.3	225.5	192.7	171.5	158.0	158.0
42.5°	6178.9	4319.0	803.7	447.1	329.6	244.8	196.6	165.7	142.6	129.1	131.1
45°	6649.1	4390.4	672.6	404.7	283.3	212.0	169.6	136.8	115.6	106.0	104.1
47.5°	7429.7	4658.3	582.0	360.4	242.8	181.2	142.6	113.7	92.5	84.8	82.9
50°	8794.2	5211.4	514.6	316.1	206.2	154.2	117.6	90.6	73.2	65.5	65.5
52.5°	10671.4	6417.9	466.4	266.0	173.5	131.1	96.4	73.2	57.8	52.0	50.1
55°	12633.4	7689.9	441.3	223.6	144.5	107.9	77.1	57.8	44.3	38.5	36.6
57.5°	14520.2	8688.2	412.4	181.2	115.6	82.9	59.7	44.3	30.8	27.0	25.1
60°	16329.9	9495.7	350.8	144.5	90.6	59.7	44.3	30.8	21.2	17.3	17.3
62.5°	17948.8	9966.0	275.6	115.6	69.4	42.4	28.9	23.1	15.4	11.6	11.6
65°	18137.7	9355.0	208.1	88.7	50.1	27.0	17.3	17.3	11.6	7.7	7.7
66°	17758.0	8836.6	183.1	80.9	44.3	23.1	15.4	13.5	9.6	5.8	5.8
67.5°	16910.0	7952.0	158.0	69.4	36.6	17.3	11.6	11.6	7.7	3.9	3.9
70°	14610.8	6495.0	125.3	52.0	27.0	13.5	7.7	7.7	5.8	3.9	3.9
72.5°	11135.9	4849.1	102.1	38.5	19.3	9.6	5.8	5.8	5.8	3.9	3.9
75°	6716.6	2611.5	79.0	28.9	17.3	7.7	3.9	5.8	7.7	5.8	3.9
77.5°	2474.6	888.5	61.7	23.1	13.5	7.7	3.9	3.9	7.7	5.8	5.8
80°	607.1	231.3	44.3	19.3	13.5	7.7	3.9	3.9	7.7	7.7	7.7
82.5°	281.4	98.3	30.8	17.3	13.5	7.7	3.9	3.9	5.8	7.7	7.7
85°	161.9	46.3	25.1	19.3	13.5	7.7	3.9	3.9	5.8	7.7	7.7
87.5°	65.5	23.1	23.1	19.3	15.4	9.6	3.9	3.9	3.9	5.8	5.8
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)