

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: P299995

Luminaire Tested: **GLNA-AF-08-LED-E1-SL3-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194479)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-08-LED-E1-SL3-7030-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35809.3 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

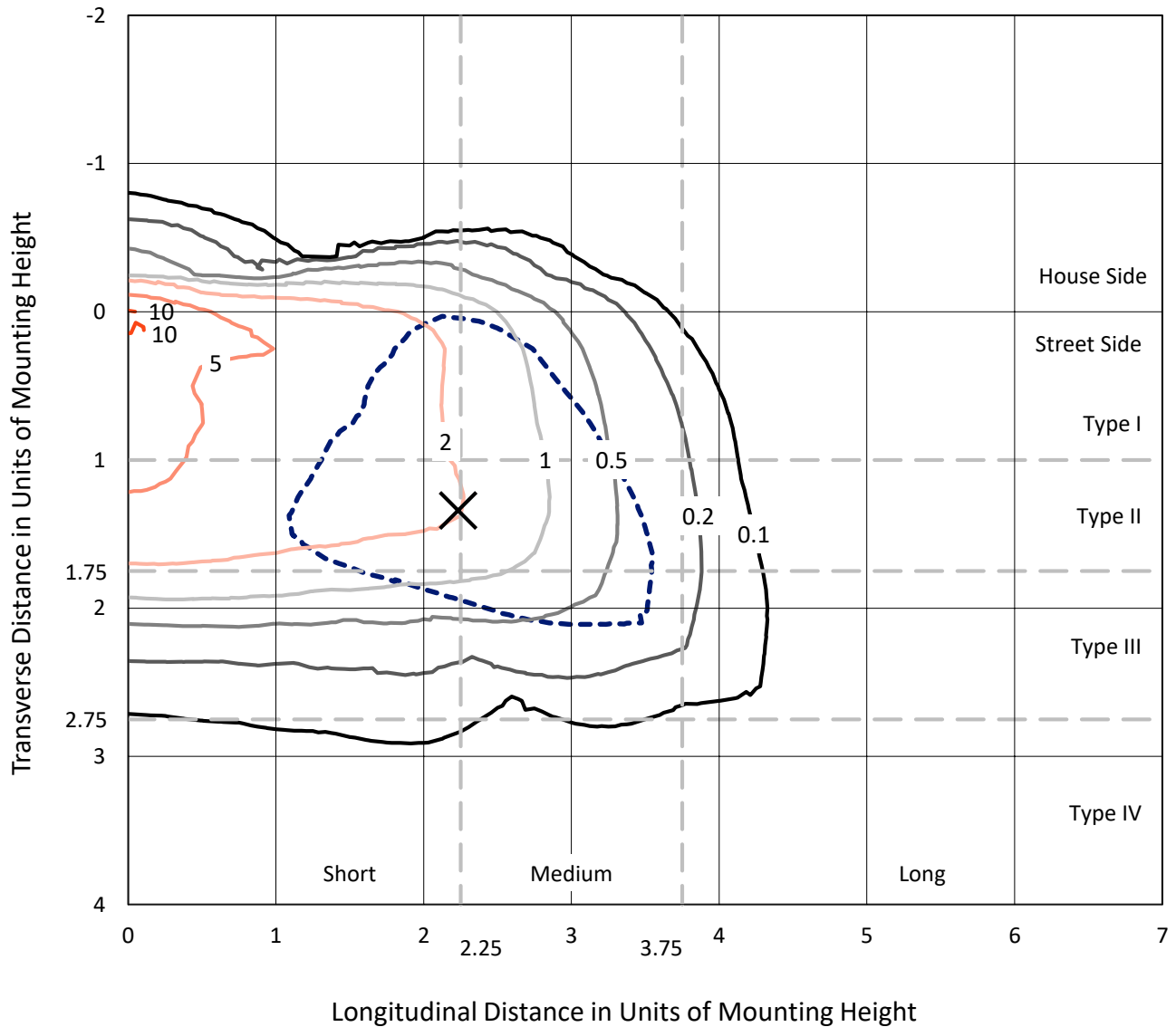
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

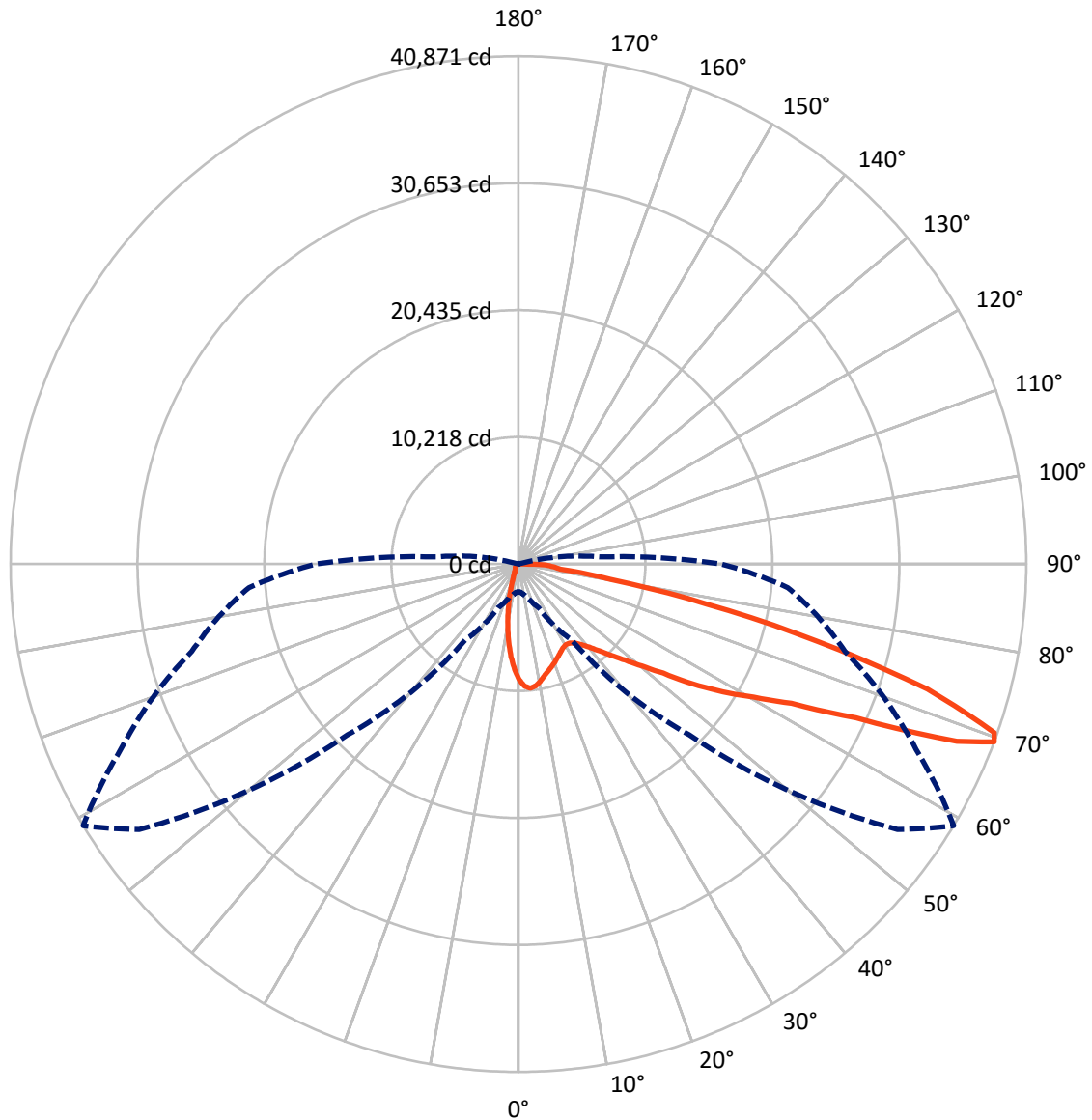
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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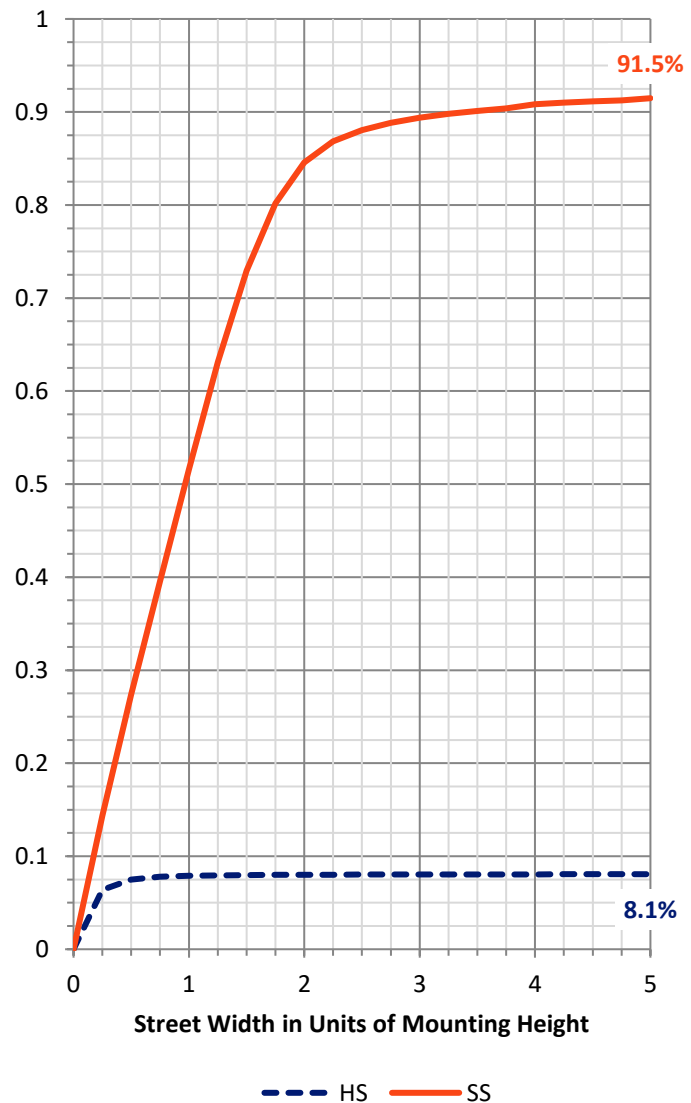
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2916.2	0.0	2916.2
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	32893.1	0.0	32893.1
	% Fixture	91.9	0.0	91.9
Total	Lumens	35809.3	0.0	35809.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	756.6	2.1
10°-20°	1563.3	4.4
20°-30°	2103.6	5.9
30°-40°	3054.3	8.5
40°-50°	5085.5	14.2
50°-60°	7933.4	22.2
60°-70°	9817.0	27.4
70°-80°	4975.1	13.9
80°-90°	520.6	1.5
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°	35809.3	100.0
0°-180°	35809.3	100.0



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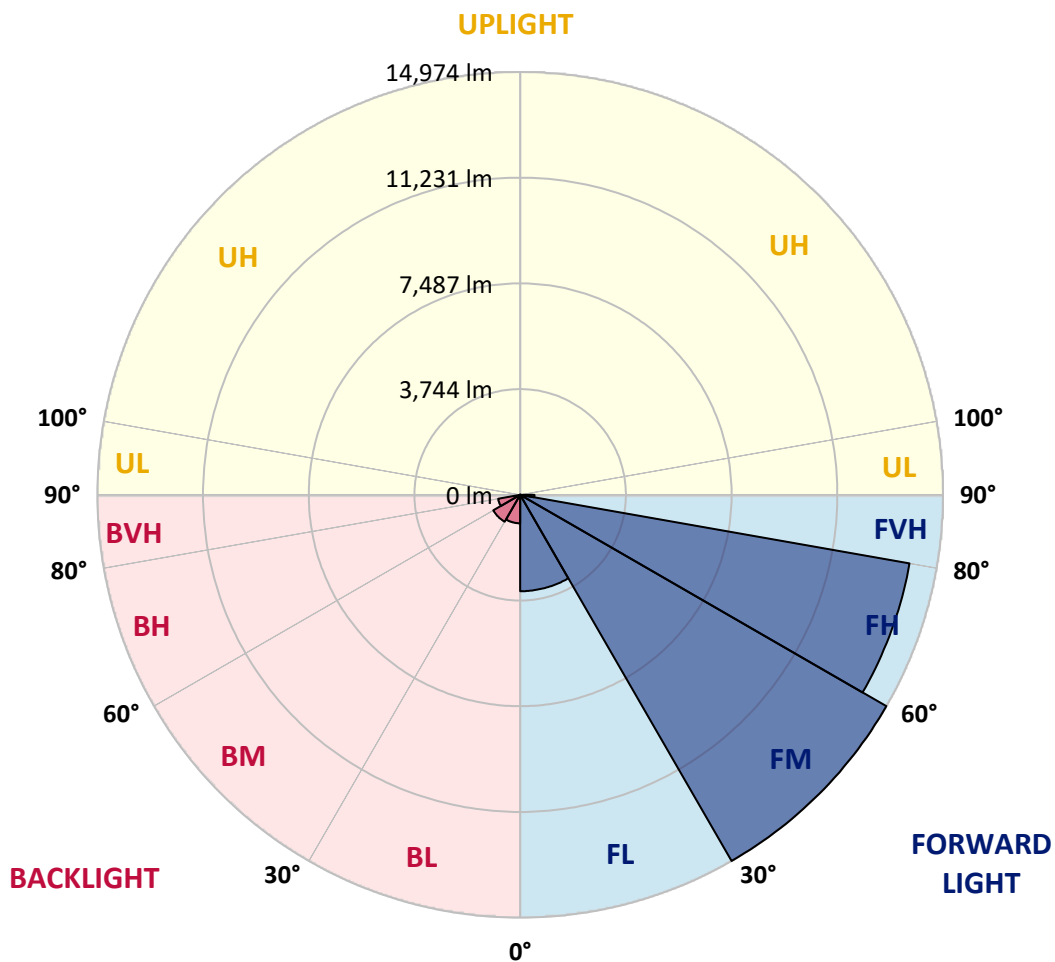
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3414.0	9.5			
FM (30°-60°)	14974.4	41.8			
FH (60°-80°)	14000.1	39.1			G5
FVH (80°-90°)	504.5	1.4			G4/750
BL (0°-30°)	1009.4	2.8	B3/2500		
BM (30°-60°)	1098.8	3.1	B2/2500		
BH (60°-80°)	792.0	2.2	B2/1000		G2/1000
BVH (80°-90°)	16.0	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	9320.5	9320.5	9320.5	9320.5	9320.5	9320.5	9320.5	9320.5	9320.5	9320.5	9320.5
2.5°	10215.6	10211.9	10167.1	10146.9	10110.1	10033.5	9913.9	9851.4	9750.2	9573.7	9337.0
5°	10122.4	10171.4	10197.2	10199.6	10226.0	10197.2	10089.9	10037.8	9898.0	9614.1	9189.3
7.5°	9490.9	9508.7	9584.1	9648.5	9774.1	9893.7	9932.3	9909.6	9826.9	9523.4	8958.1
10°	8814.7	8832.5	8922.0	9006.6	9177.0	9360.9	9555.3	9596.4	9630.7	9393.4	8735.6
12.5°	8231.0	8249.4	8340.8	8451.8	8650.4	8877.2	9178.9	9245.7	9397.7	9270.2	8557.2
15°	7728.9	7736.9	7826.4	7963.8	8201.0	8492.2	8834.9	8942.2	9175.2	9183.1	8401.5
17.5°	7301.6	7321.9	7377.0	7508.2	7767.6	8128.1	8527.2	8681.0	8953.9	9110.2	8249.4
20°	7040.5	7060.7	7058.9	7131.8	7364.8	7749.2	8219.4	8403.3	8735.6	9035.4	8114.0
22.5°	6990.2	6990.2	6937.5	6927.1	7065.0	7386.9	7899.4	8123.8	8538.8	9002.9	8018.9
25°	7170.4	7161.9	7030.7	6923.4	6929.5	7121.4	7589.2	7856.5	8373.3	9025.0	7968.0
27.5°	7551.2	7540.7	7374.6	7170.4	7006.1	7004.3	7354.4	7641.9	8241.5	9130.4	7988.3
30°	8077.2	8073.5	7893.2	7635.8	7338.4	7065.0	7273.4	7534.6	8156.3	9320.5	8034.9
32.5°	8652.2	8646.1	8510.6	8239.6	7862.6	7338.4	7358.7	7577.5	8180.8	9573.7	8148.3
35°	9262.2	9251.8	9193.0	8956.3	8541.3	7842.4	7638.2	7808.0	8334.7	9952.5	8370.8
37.5°	9921.9	9932.3	9974.6	9747.8	9312.5	8549.2	8106.0	8221.2	8644.3	10466.9	8733.2
40°	10896.1	10894.2	10908.3	10610.4	10191.6	9413.7	8759.5	8796.3	9162.9	11149.3	9284.3
42.5°	12663.5	12540.3	12165.7	11558.2	11137.0	10401.9	9584.1	9545.5	9796.8	11993.4	10055.5
45°	15039.2	14775.5	13803.8	12639.6	12100.7	11515.9	10598.1	10474.9	10634.9	13008.1	11007.6
47.5°	17081.9	16808.5	15434.0	13765.2	13123.3	12572.8	11786.8	11564.3	11617.0	14144.1	12214.2
50°	17776.5	17642.9	16442.5	14745.5	14113.4	13903.2	13166.2	12894.7	12819.9	15457.9	13613.2
52.5°	17535.6	17525.8	16725.7	15381.3	15020.8	15280.1	14901.2	14587.3	14312.1	16843.4	15036.7
55°	17148.7	17199.6	16841.0	15937.9	15925.7	16537.5	17274.4	17013.2	16215.6	18347.9	16264.1
57.5°	16082.0	16298.4	16776.6	16991.2	17489.0	18114.9	19250.9	19404.8	18461.3	19499.9	17282.4
60°	13048.5	13524.3	15087.6	17142.6	19504.1	21063.2	21636.4	21767.6	20303.6	20457.5	18657.5
62.5°	9262.2	9747.8	11730.4	15207.1	19534.2	24936.5	25189.7	24673.5	22332.8	21877.3	21028.8
65°	4916.2	5291.4	6911.1	10977.0	16936.6	25835.9	31404.4	29865.6	25912.5	24669.2	24092.3
67.5°	2514.8	2628.2	3272.6	5372.3	11643.4	22948.4	36974.7	38058.0	32082.5	27439.7	23944.6
69°	2225.4	2292.3	2719.6	3883.8	7455.5	19437.3	37246.3	40870.8	35312.7	27208.6	21759.6
70°	2154.3	2213.2	2601.9	3515.3	5827.8	16300.2	36207.2	40623.7	36138.5	26330.0	20127.6
72.5°	1828.8	1879.1	2316.8	3106.4	4736.6	8091.3	29411.9	34423.8	32428.8	21933.7	14568.9
75°	1223.1	1389.2	2223.6	2912.1	4406.1	4596.8	19390.7	24875.8	23108.4	14793.9	7589.2
77.5°	293.7	315.7	627.8	2316.8	4029.7	4045.6	9972.8	15464.0	12613.3	5273.0	1793.8
80°	158.2	152.0	176.0	459.8	3752.0	3796.7	4489.5	7506.4	4503.6	874.8	591.0
82.5°	111.6	105.4	113.4	192.5	1180.8	3458.3	3248.0	3397.6	1866.8	336.0	265.5
85°	40.5	38.6	62.5	174.1	370.3	1988.2	3336.9	2802.3	1512.4	153.9	194.3
87.5°	14.1	12.3	24.5	95.0	113.4	846.6	2059.3	2118.1	595.3	93.2	91.3
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°	9320.5	9320.5	9320.5	9320.5	9320.5	9320.5	9320.5	9320.5	9320.5	9320.5	9320.5
2.5°	9237.7	9112.0	8881.5	8644.3	8425.4	8162.4	8030.6	7901.2	7846.7	7826.4	7731.4
5°	8970.4	8757.7	8267.8	7775.5	7321.9	6840.0	6522.4	6267.4	6117.2	6044.2	5929.0
7.5°	8628.3	8280.1	7536.4	6777.5	6070.6	5374.2	4857.9	4460.7	4187.3	4056.1	3936.5
10°	8296.0	7832.6	6775.6	5740.8	4780.7	3857.4	3144.4	2628.2	2298.4	2146.4	2049.5
12.5°	7998.7	7397.3	6040.6	4730.4	3525.1	2444.3	1719.0	1308.3	1103.5	1032.4	998.1
15°	7733.2	6996.3	5346.0	3770.4	2387.3	1397.2	939.8	800.1	767.6	767.6	763.3
17.5°	7481.9	6603.4	4675.3	2869.2	1498.3	854.6	714.8	696.4	696.4	704.4	704.4
20°	7240.9	6228.8	4027.2	2059.3	943.5	678.1	646.2	641.9	646.2	656.0	656.0
22.5°	7034.3	5888.5	3422.1	1413.1	700.7	611.2	595.3	589.2	591.0	597.1	601.4
25°	6880.5	5601.0	2851.4	957.6	603.3	556.7	538.9	528.5	520.5	520.5	524.2
27.5°	6783.6	5358.2	2298.4	696.4	542.6	506.4	477.6	461.6	443.2	433.4	437.1
30°	6712.5	5127.1	1779.7	568.9	486.2	449.4	413.2	386.8	360.5	348.2	352.5
32.5°	6686.1	4940.7	1330.4	502.1	435.3	394.8	350.1	315.7	287.5	277.1	279.6
35°	6757.2	4793.0	974.2	453.7	394.8	343.9	293.7	255.0	233.0	226.8	228.7
37.5°	6943.6	4713.9	728.9	413.2	358.6	301.6	245.2	208.4	194.3	194.3	196.2
40°	7295.5	4712.0	585.5	385.0	326.2	261.2	202.3	176.0	168.0	172.3	174.1
42.5°	7809.9	4819.3	510.1	358.6	298.0	222.5	168.0	149.6	147.7	152.0	153.9
45°	8512.4	5015.5	469.6	336.0	267.3	186.4	141.6	129.4	129.4	135.5	137.9
47.5°	9373.2	5303.0	435.3	313.9	236.6	155.7	121.4	113.4	115.3	121.4	123.2
50°	10409.9	5666.0	400.9	289.4	214.6	129.4	105.4	99.3	101.2	109.1	111.6
52.5°	11590.7	6154.0	372.7	267.3	186.4	107.3	88.9	85.2	88.9	97.5	99.3
55°	12602.8	6591.1	338.4	248.9	149.6	88.9	73.0	73.0	77.2	87.1	88.9
57.5°	13577.0	7048.4	307.8	214.6	117.7	71.1	60.7	62.5	68.7	79.1	80.9
60°	15006.7	7824.0	271.6	180.2	88.9	56.4	50.9	52.7	60.7	71.1	73.0
62.5°	17434.4	9004.7	234.8	149.6	68.7	44.8	40.5	44.8	54.6	66.8	68.7
65°	19625.5	9484.8	192.5	125.7	52.7	34.3	34.3	40.5	52.7	65.0	66.8
67.5°	18404.3	7984.0	149.6	99.3	40.5	26.4	28.2	38.6	50.9	65.0	66.8
69°	16276.3	6528.6	127.5	79.1	34.3	24.5	26.4	38.6	50.9	62.5	65.0
70°	14618.0	5512.1	113.4	66.8	30.7	24.5	26.4	36.2	50.9	62.5	65.0
72.5°	9790.7	2976.4	91.3	48.4	28.2	22.1	22.1	36.2	48.4	60.7	62.5
75°	4207.5	822.1	73.0	34.3	24.5	20.2	20.2	34.3	46.6	58.9	62.5
77.5°	769.4	208.4	58.9	30.7	24.5	20.2	18.4	32.5	44.8	56.4	58.9
80°	305.9	103.0	46.6	26.4	22.1	18.4	15.9	30.7	42.3	54.6	56.4
82.5°	184.5	58.9	38.6	24.5	22.1	15.9	14.1	26.4	40.5	52.7	54.6
85°	149.6	40.5	30.7	24.5	20.2	15.9	12.3	24.5	36.2	50.9	52.7
87.5°	73.0	28.2	28.2	22.1	20.2	15.9	12.3	22.1	34.3	48.4	50.9
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)