

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: STREETWORKS

Report Number: P322184

Luminaire Tested: **GAN-SA0D-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46804 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 640
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

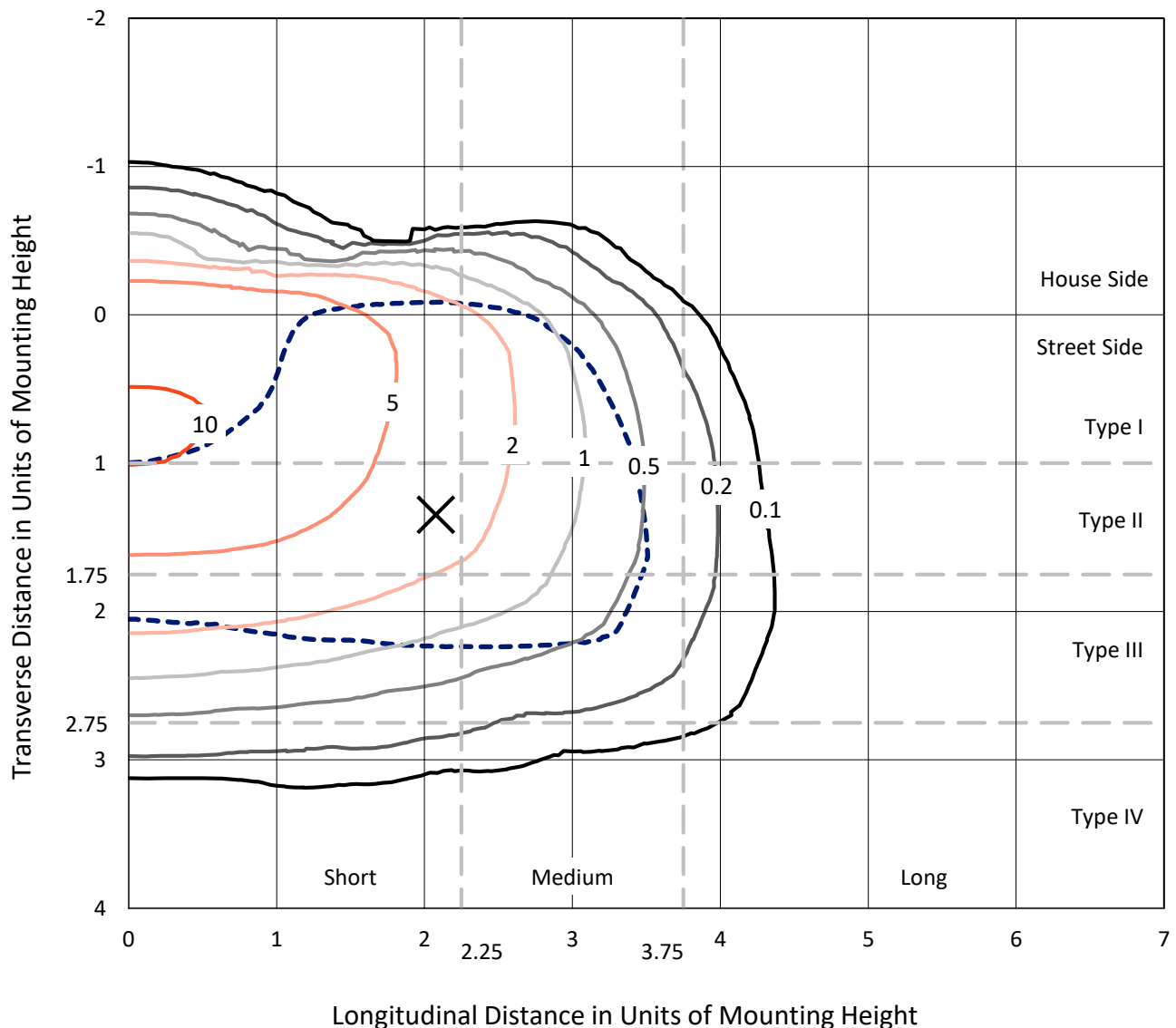


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Iso-Footcandle Lines of Horizontal Illumination

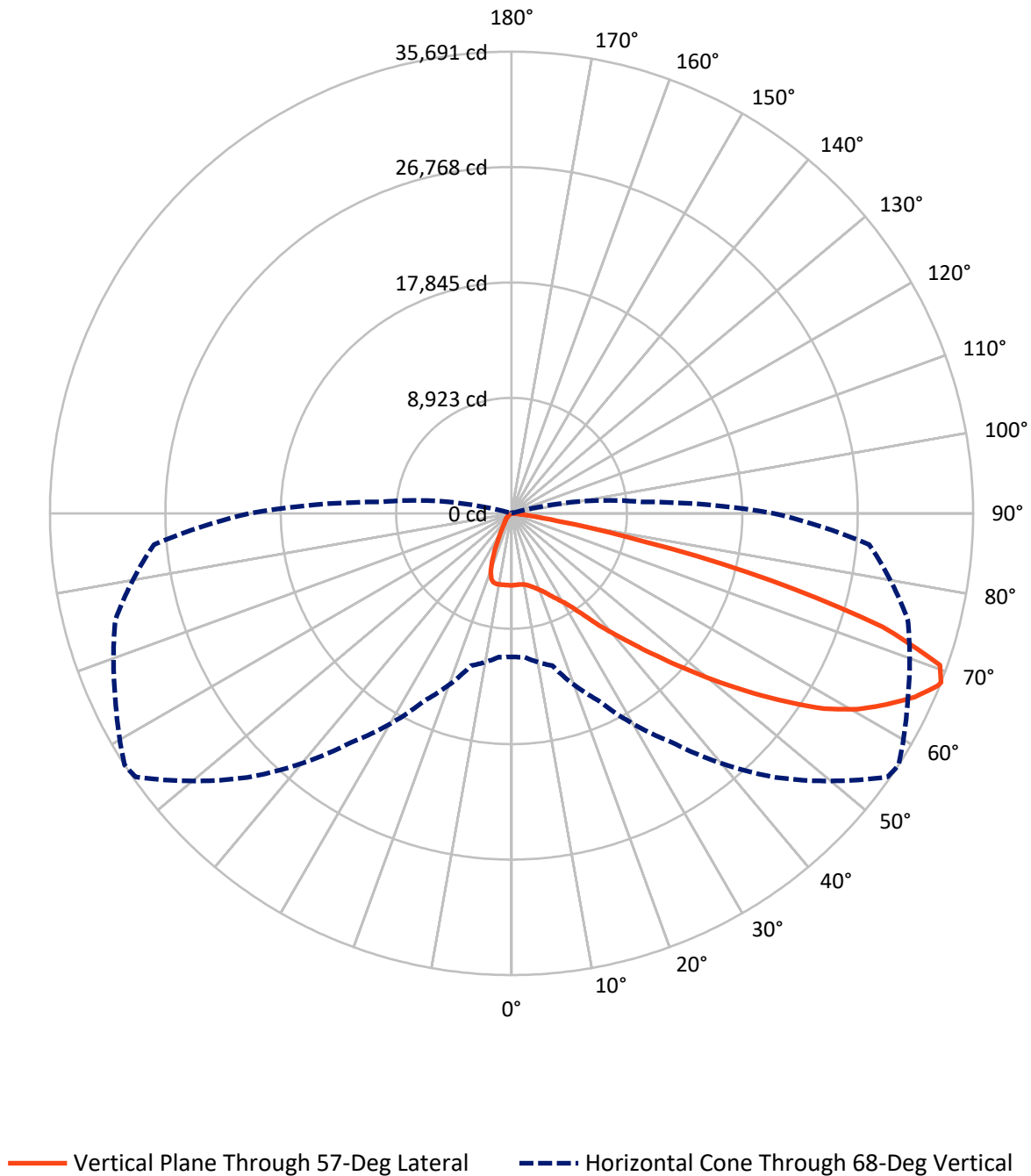
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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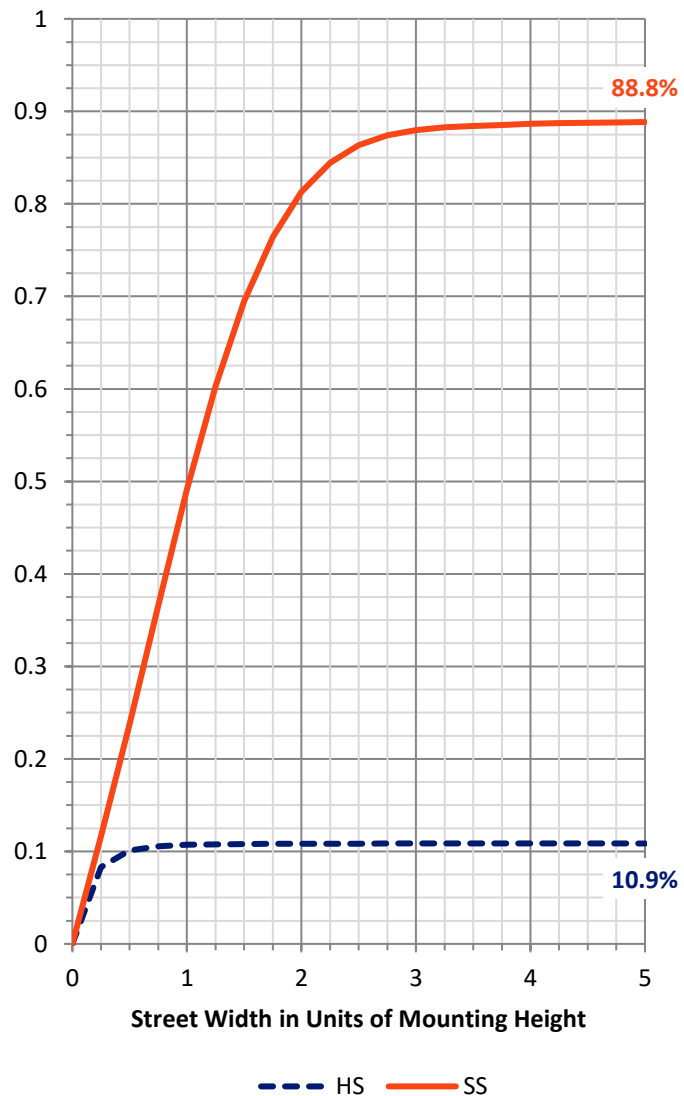
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5132.3	0.0	5132.3
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	41671.7	0.0	41671.7
	% Fixture	89.0	0.0	89.0
Total	Lumens	46804.0	0.0	46804.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.5	1.1
10°-20°	1442.3	3.1
20°-30°	2488.1	5.3
30°-40°	4294.3	9.2
40°-50°	7345.5	15.7
50°-60°	11752.1	25.1
60°-70°	13578.3	29.0
70°-80°	5188.5	11.1
80°-90°	194.5	0.4
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°	46804.0	100.0
0°-180°	46804.0	100.0

Coefficient of Utilization



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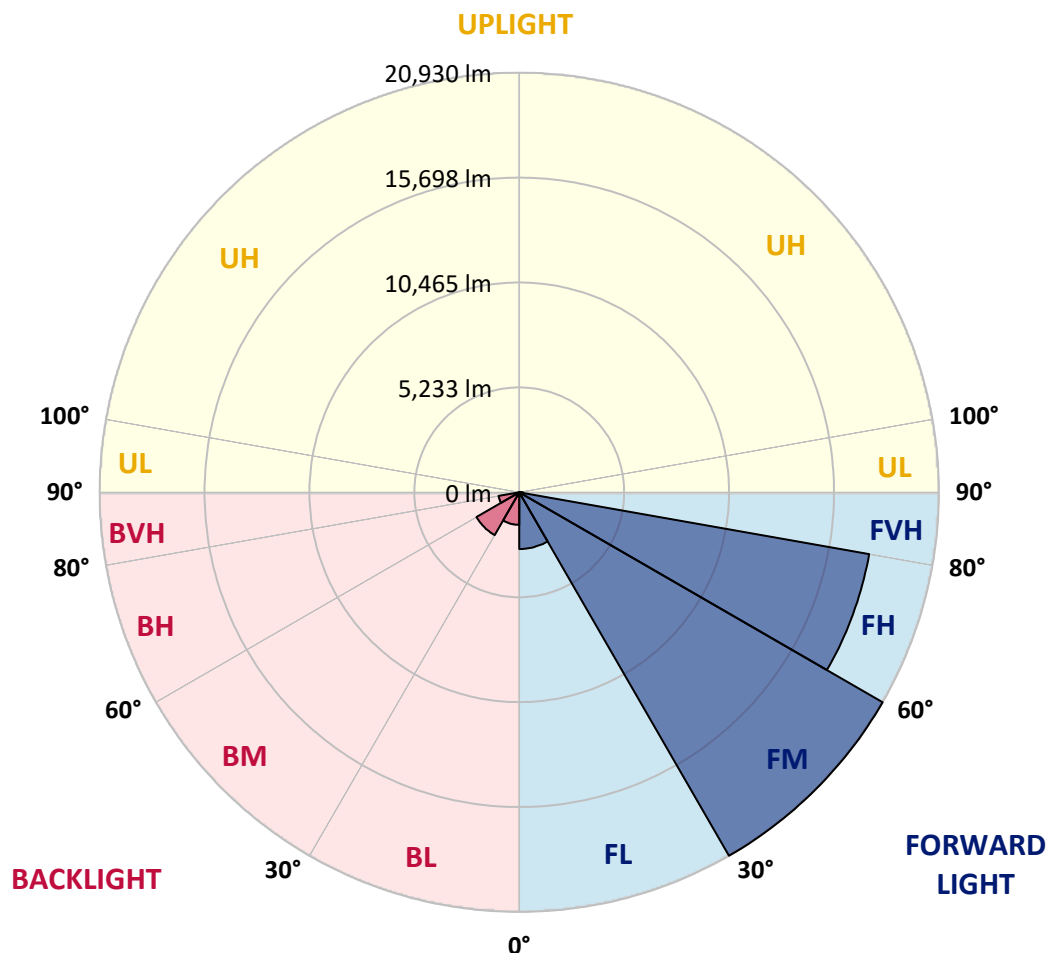
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2828.9	6.0			
FM	(30°-60°)	20930.4	44.7			
FH	(60°-80°)	17721.5	37.9			G5
FVH	(80°-90°)	190.9	0.4			G2/225
BL	(0°-30°)	1622.0	3.5	B3/2500		
BM	(30°-60°)	2461.6	5.3	B2/2500		
BH	(60°-80°)	1045.2	2.2	B3/2500		G3/2500
BVH	(80°-90°)	3.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5561.5	5561.5	5561.5	5561.5	5561.5	5561.5	5561.5	5561.5	5561.5	5561.5	5561.5
2.5°	5431.0	5455.3	5473.0	5484.1	5497.4	5526.1	5535.0	5548.3	5554.9	5554.9	5570.4
5°	5216.3	5242.9	5280.5	5311.5	5373.4	5453.1	5510.6	5532.8	5572.6	5608.0	5627.9
7.5°	5017.1	5048.1	5092.4	5165.4	5271.6	5400.0	5519.5	5550.5	5627.9	5703.2	5740.8
10°	4888.8	4913.1	4970.6	5074.7	5214.1	5393.4	5561.5	5599.2	5732.0	5858.1	5928.9
12.5°	4844.5	4866.6	4926.4	5043.7	5216.3	5426.5	5658.9	5714.3	5909.0	6092.7	6192.3
15°	4908.7	4913.1	4977.3	5087.9	5258.4	5508.4	5820.5	5886.9	6132.5	6371.5	6495.5
17.5°	5156.5	5136.6	5169.8	5218.5	5353.5	5616.9	5990.9	6090.5	6418.0	6699.1	6816.4
20°	5776.2	5776.2	5701.0	5568.2	5570.4	5785.1	6221.1	6333.9	6734.5	7059.8	7166.1
22.5°	6836.3	6816.4	6665.9	6340.6	6041.8	6075.0	6502.1	6648.2	7115.2	7462.6	7498.0
25°	8111.1	8086.7	7854.3	7396.2	6878.4	6544.2	6882.8	7051.0	7568.8	7876.5	7803.4
27.5°	9461.1	9441.1	9211.0	8642.2	7905.2	7292.2	7336.5	7495.8	8031.4	8334.6	8102.2
30°	10769.0	10775.6	10547.7	9963.4	9129.1	8246.1	7911.9	8004.8	8480.6	8788.3	8456.3
32.5°	12012.8	12021.6	11824.7	11171.8	10392.8	9354.8	8708.6	8684.2	9002.9	9306.1	8925.5
35°	13121.5	13143.7	13008.7	12501.9	11676.4	10589.7	9742.1	9684.6	9744.3	10087.4	9644.7
37.5°	14190.5	14203.7	14101.9	13674.8	12984.3	11946.4	11047.9	10966.0	10837.6	11101.0	10594.2
40°	15361.2	15328.0	15210.7	14823.4	14230.3	13444.7	12451.0	12309.3	12085.8	12320.4	11842.4
42.5°	16450.1	16412.4	16432.4	15994.2	15494.0	14985.0	14086.5	13843.0	13712.4	13982.4	13373.8
45°	17811.1	17791.2	17857.6	17476.9	17071.9	16702.4	15961.0	15695.4	15637.8	15954.3	15226.2
47.5°	19154.5	19203.2	19409.0	19247.4	19083.7	18758.3	17946.1	17826.6	17862.0	18244.9	17180.4
50°	20274.3	20331.9	20896.2	21082.1	21318.9	21128.6	20314.2	20241.1	20380.5	20725.8	19282.8
52.5°	21084.3	21201.6	21903.2	22759.6	23622.8	23751.1	22938.9	22872.5	23060.6	23113.7	20907.3
55°	21646.4	21750.5	22545.0	24111.8	25869.1	26422.3	25917.7	25661.0	25625.6	25101.1	22615.8
57.5°	21746.0	21735.0	22876.9	24986.0	27630.7	29058.2	28739.5	28487.2	27761.3	26938.0	24574.4
60°	21183.9	21248.1	22573.7	25289.2	28737.3	31052.2	31076.5	30749.0	29618.1	28724.0	26473.2
62.5°	19453.2	19714.4	21053.3	24494.7	28724.0	31855.5	32789.5	32539.4	31187.2	30186.8	28398.6
65°	16647.0	16740.0	18016.9	21772.6	26783.1	31519.1	34332.0	34239.0	32601.3	31607.7	29387.9
67.5°	12156.6	11955.2	13296.4	17145.0	22675.5	29558.3	35438.6	35555.8	33692.4	31899.8	28334.5
68°	11094.3	11154.1	12198.7	16000.8	21600.0	28865.6	35511.6	35690.8	33800.9	31709.5	27759.1
70°	6612.8	6727.9	7659.6	11016.9	16432.4	24946.2	34723.7	35133.1	33154.6	29746.4	24010.0
72.5°	1688.6	1825.8	2706.6	4930.8	9385.8	17576.5	29312.7	30005.4	28785.9	24131.8	16208.8
75°	694.9	730.3	967.1	1624.4	3496.7	7918.5	19320.5	20803.2	19955.6	14447.2	7325.4
77.5°	480.2	504.6	621.9	900.7	1513.8	2684.5	9472.1	10543.3	9498.7	4930.8	1597.9
80°	345.2	365.2	444.8	599.8	869.8	958.3	3087.3	3569.7	2835.0	1082.2	396.1
82.5°	205.8	221.3	332.0	427.1	528.9	458.1	767.9	872.0	821.1	537.8	177.0
85°	101.8	119.5	223.5	305.4	285.5	192.5	234.6	261.1	323.1	327.5	95.2
87.5°	6.6	13.3	130.6	183.7	79.7	44.3	68.6	84.1	115.1	161.6	39.8
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°	5561.5	5561.5	5561.5	5561.5	5561.5	5561.5	5561.5	5561.5	5561.5	5561.5	5561.5
2.5°	5577.0	5579.3	5563.8	5557.1	5561.5	5535.0	5523.9	5528.4	5528.4	5535.0	5523.9
5°	5632.4	5632.4	5605.8	5570.4	5550.5	5499.6	5466.4	5457.5	5450.9	5446.5	5437.6
7.5°	5751.9	5738.6	5692.1	5614.7	5548.3	5437.6	5353.5	5309.3	5287.1	5278.3	5271.6
10°	5944.4	5920.1	5842.6	5698.8	5546.1	5349.1	5165.4	5034.8	4926.4	4882.1	4855.6
12.5°	6203.4	6167.9	6037.4	5798.4	5530.6	5167.6	4769.3	4386.4	4030.1	3884.0	3811.0
15°	6502.1	6451.2	6245.4	5882.5	5439.8	4758.2	3892.9	3222.3	2728.8	2542.9	2463.2
17.5°	6805.3	6738.9	6426.9	5935.6	5167.6	3910.6	2731.0	2062.6	1732.9	1644.3	1613.4
20°	7110.7	7013.4	6584.0	5895.7	4552.4	2819.5	1801.5	1507.1	1412.0	1385.4	1376.6
22.5°	7400.6	7250.2	6725.6	5740.8	3605.2	1892.2	1425.2	1332.3	1301.3	1285.8	1281.4
25°	7652.9	7442.7	6849.6	5262.8	2551.7	1429.7	1283.6	1252.6	1212.8	1184.0	1186.2
27.5°	7889.7	7635.2	6924.8	4474.9	1701.9	1221.6	1188.4	1146.4	1073.4	1031.3	1031.3
30°	8175.2	7892.0	6980.2	3443.6	1252.6	1080.0	1053.4	989.3	889.7	834.3	834.3
32.5°	8604.6	8281.5	6944.7	2416.7	1037.9	949.4	887.5	798.9	690.5	637.4	635.2
35°	9261.9	8883.4	6692.4	1584.6	916.2	825.5	725.9	617.5	522.3	478.0	475.8
37.5°	10147.1	9689.0	6125.9	1133.1	821.1	710.4	590.9	471.4	400.6	371.8	369.6
40°	11295.7	10625.1	5315.9	918.4	732.5	599.8	455.9	365.2	316.5	294.3	296.6
42.5°	12674.5	11627.7	4344.3	792.3	646.2	493.5	356.3	287.7	256.7	241.2	236.8
45°	14206.0	12616.9	3326.3	706.0	559.9	398.4	278.9	228.0	203.6	194.8	194.8
47.5°	15890.1	13579.7	2434.4	630.7	467.0	307.6	223.5	185.9	166.0	159.3	157.1
50°	17419.4	14248.0	1755.0	551.1	382.9	243.4	181.5	154.9	141.6	132.8	132.8
52.5°	18694.2	14458.3	1292.5	464.8	309.8	194.8	150.5	132.8	119.5	112.9	112.9
55°	19816.2	14371.9	960.5	382.9	250.1	159.3	128.4	112.9	101.8	95.2	95.2
57.5°	20891.8	14093.1	717.0	312.0	201.4	128.4	108.4	95.2	84.1	79.7	79.7
60°	21770.4	13628.3	533.4	252.3	161.6	104.0	90.7	77.5	68.6	62.0	62.0
62.5°	22483.0	13114.9	391.7	208.0	128.4	81.9	70.8	64.2	50.9	44.3	44.3
65°	22487.4	12262.9	294.3	172.6	99.6	64.2	53.1	50.9	33.2	26.6	24.3
67.5°	20860.8	10572.0	225.7	148.3	77.5	48.7	39.8	42.0	17.7	11.1	8.9
68°	20269.9	10142.7	212.5	146.1	73.0	46.5	37.6	42.0	15.5	8.9	6.6
70°	17089.6	8069.0	170.4	141.6	64.2	35.4	31.0	42.0	13.3	6.6	4.4
72.5°	10930.6	4682.9	126.1	112.9	48.7	26.6	19.9	37.6	13.3	4.4	2.2
75°	4652.0	1451.8	86.3	79.7	28.8	19.9	13.3	24.3	8.9	2.2	0.0
77.5°	980.4	327.5	50.9	48.7	19.9	13.3	8.9	6.6	2.2	0.0	0.0
80°	252.3	95.2	26.6	24.3	11.1	6.6	4.4	0.0	0.0	0.0	0.0
82.5°	79.7	37.6	15.5	11.1	4.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	39.8	22.1	8.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.1	6.6	2.2	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)