

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: P322342

Luminaire Tested: **GAN-SA8D-760-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322342
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-SA8D-760-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 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: 45315 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 511
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

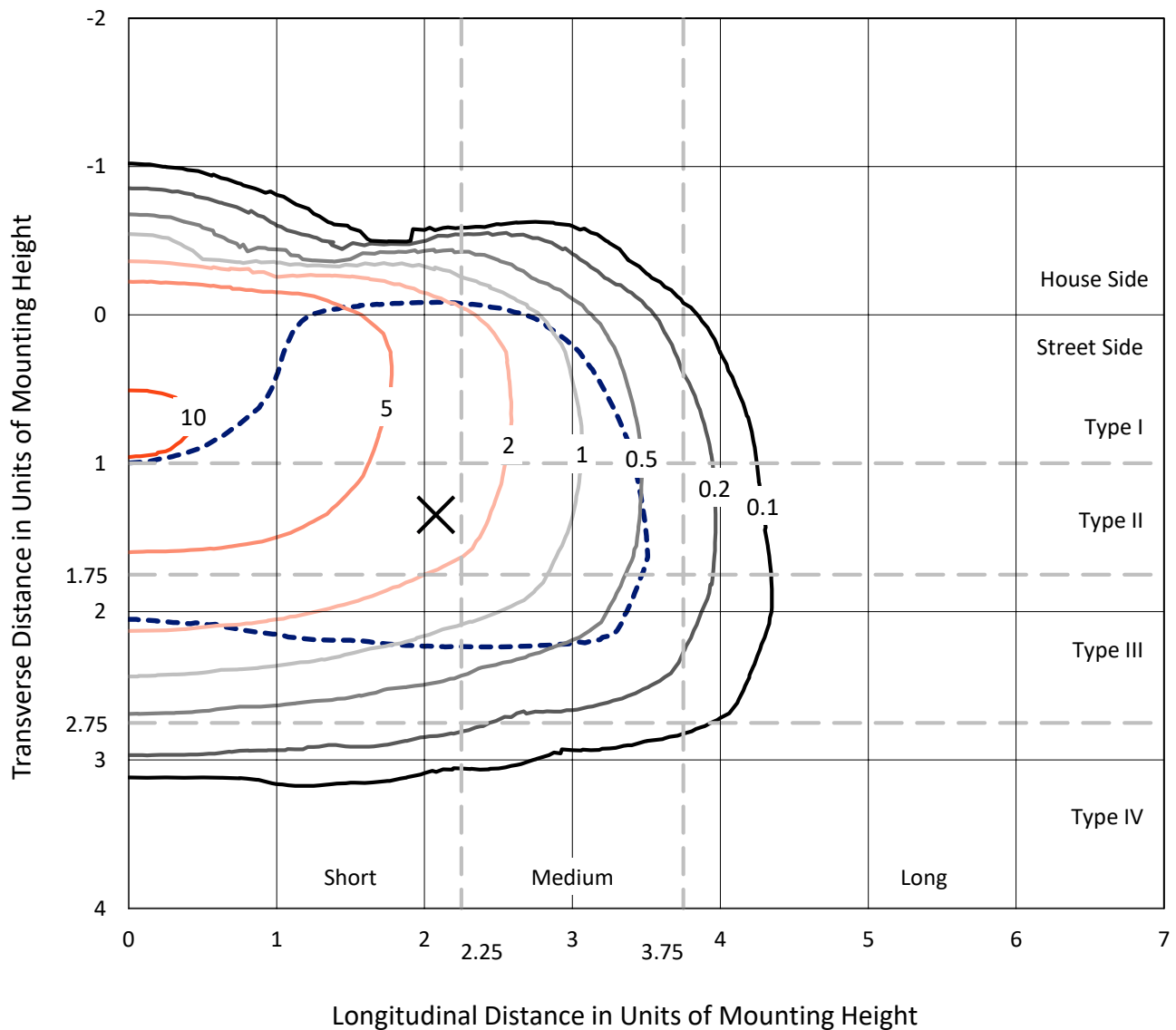


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Iso-Footcandle Lines of Horizontal Illumination

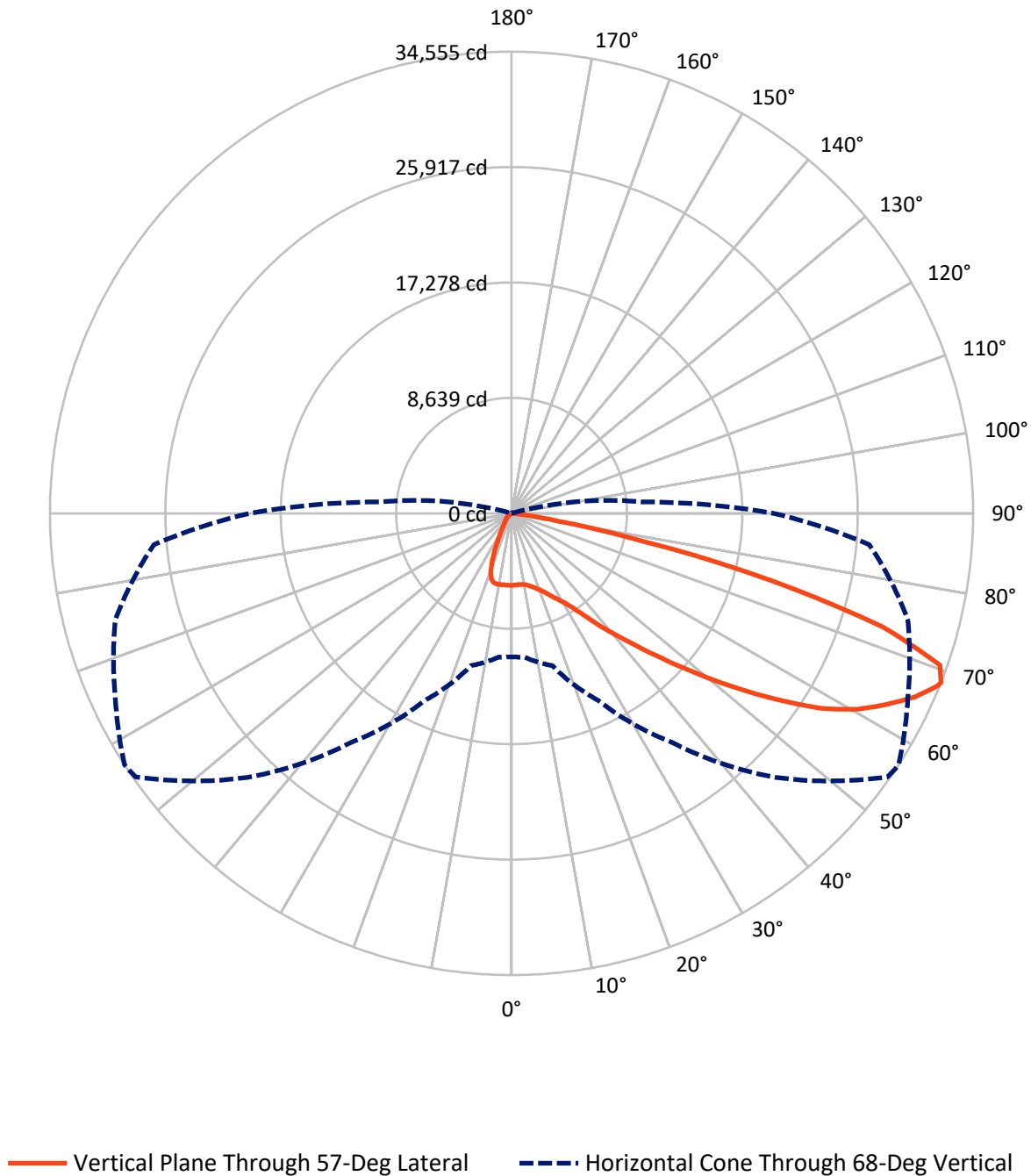
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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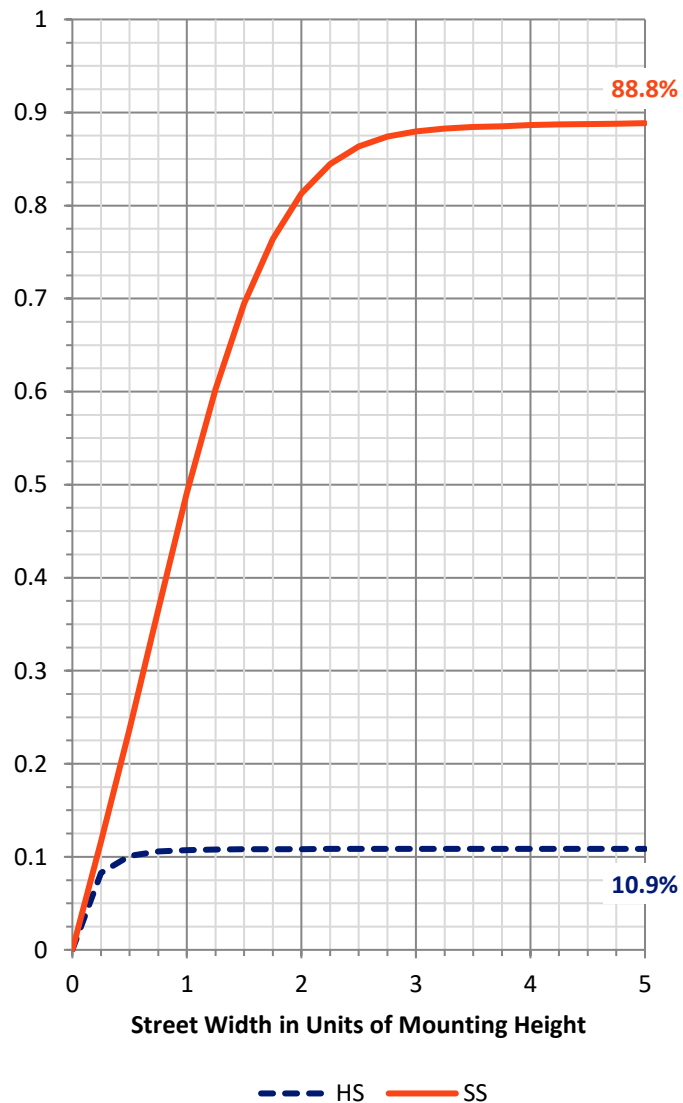
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4969.1	0.0	4969.1
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	40345.9	0.0	40345.9
	% Fixture	89.0	0.0	89.0
Total	Lumens	45315.0	0.0	45315.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.9	1.1
10°-20°	1396.4	3.1
20°-30°	2408.9	5.3
30°-40°	4157.7	9.2
40°-50°	7111.8	15.7
50°-60°	11378.2	25.1
60°-70°	13146.3	29.0
70°-80°	5023.4	11.1
80°-90°	188.3	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°	45315.0	100.0
0°-180°	45315.0	100.0

Coefficient of Utilization



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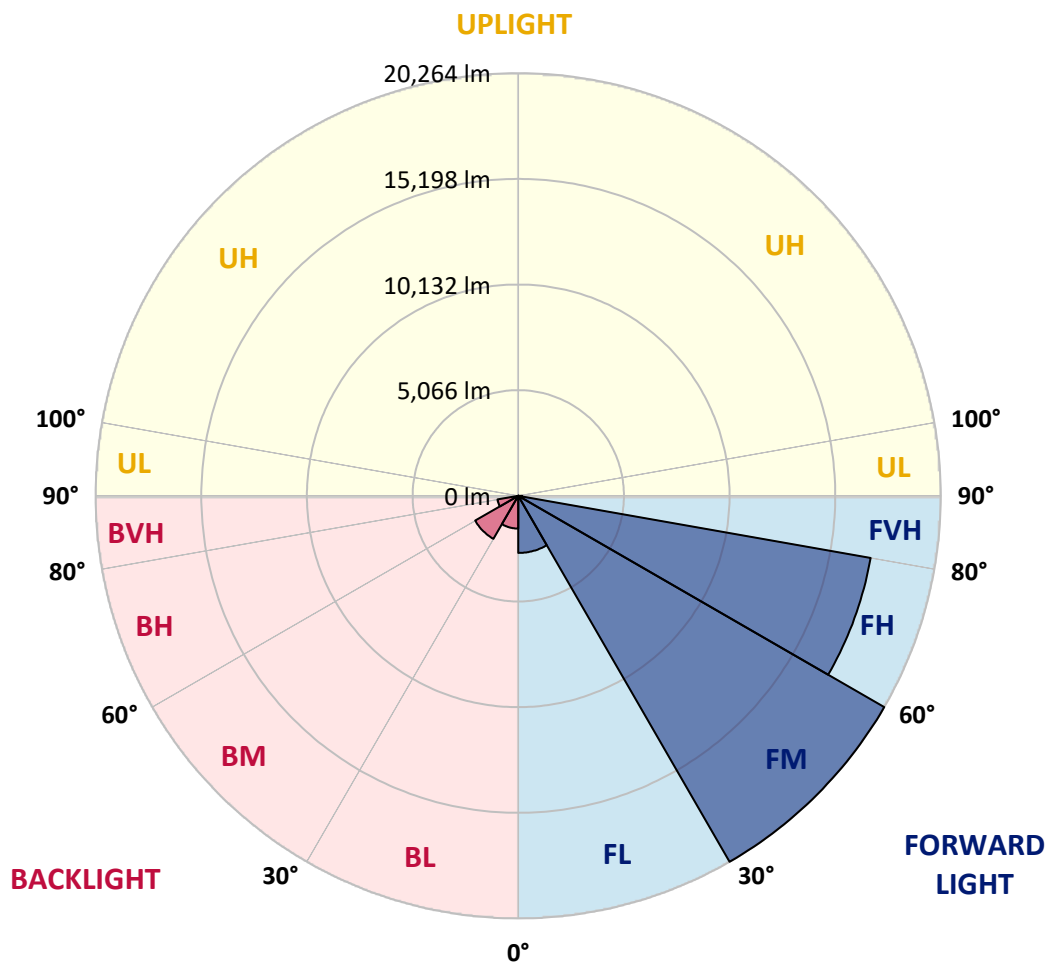
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2738.9	6.0			
FM	(30°-60°)	20264.5	44.7			
FH	(60°-80°)	17157.7	37.9			G5
FVH	(80°-90°)	184.9	0.4			G2/225
BL	(0°-30°)	1570.4	3.5	B3/2500		
BM	(30°-60°)	2383.3	5.3	B2/2500		
BH	(60°-80°)	1012.0	2.2	B3/2500		G3/2500
BVH	(80°-90°)	3.4	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°	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6
2.5°	5258.2	5281.8	5298.9	5309.6	5322.5	5350.3	5358.9	5371.8	5378.2	5378.2	5393.2
5°	5050.4	5076.1	5112.5	5142.5	5202.5	5279.6	5335.3	5356.8	5395.3	5429.6	5448.9
7.5°	4857.5	4887.5	4930.4	5001.1	5103.9	5228.2	5343.9	5373.9	5448.9	5521.7	5558.2
10°	4733.2	4756.8	4812.5	4913.2	5048.2	5221.8	5384.6	5421.0	5549.6	5671.7	5740.3
12.5°	4690.4	4711.8	4769.7	4883.2	5050.4	5253.9	5478.9	5532.5	5721.0	5898.9	5995.3
15°	4752.5	4756.8	4818.9	4926.1	5091.1	5333.2	5635.3	5699.6	5937.4	6168.8	6288.8
17.5°	4992.5	4973.2	5005.4	5052.5	5183.2	5438.2	5800.3	5896.7	6213.8	6486.0	6599.5
20°	5592.5	5592.5	5519.6	5391.0	5393.2	5601.0	6023.1	6132.4	6520.3	6835.2	6938.1
22.5°	6618.8	6599.5	6453.8	6138.8	5849.6	5881.7	6295.3	6436.7	6888.8	7225.2	7259.5
25°	7853.0	7829.4	7604.5	7160.9	6659.5	6336.0	6663.8	6826.7	7328.0	7625.9	7555.2
27.5°	9160.1	9140.8	8917.9	8367.3	7653.7	7060.2	7103.1	7257.3	7775.9	8069.4	7844.4
30°	10426.4	10432.8	10212.1	9646.5	8838.7	7983.7	7660.2	7750.2	8210.8	8508.7	8187.3
32.5°	11630.6	11639.2	11448.5	10816.4	10062.1	9057.2	8431.5	8408.0	8716.5	9010.1	8641.5
35°	12704.1	12725.5	12594.8	12104.1	11304.9	10252.8	9432.2	9376.5	9434.3	9766.4	9337.9
37.5°	13739.0	13751.9	13653.3	13239.8	12571.2	11566.3	10696.4	10617.1	10492.8	10747.8	10257.1
40°	14872.5	14840.4	14726.8	14351.8	13777.6	13016.9	12054.9	11917.7	11701.3	11928.4	11465.6
42.5°	15926.7	15890.3	15909.6	15485.3	15001.1	14508.3	13638.3	13402.6	13276.2	13537.6	12948.4
45°	17244.5	17225.2	17289.5	16920.9	16528.8	16171.0	15453.2	15196.1	15140.4	15446.8	14741.8
47.5°	18545.1	18592.2	18791.5	18635.1	18476.5	18161.6	17375.2	17259.5	17293.8	17664.5	16633.8
50°	19629.3	19685.0	20231.4	20411.4	20640.7	20456.4	19667.9	19597.2	19732.2	20066.4	18669.4
52.5°	20413.5	20527.1	21206.3	22035.6	22871.2	22995.5	22209.1	22144.9	22327.0	22378.4	20242.1
55°	20957.8	21058.5	21827.7	23344.8	25046.1	25581.8	25093.2	24844.7	24810.4	24302.6	21896.3
57.5°	21054.2	21043.5	22149.1	24191.1	26751.7	28133.7	27825.2	27580.9	26878.1	26081.0	23792.6
60°	20510.0	20572.1	21855.6	24484.7	27823.0	30064.3	30087.9	29770.7	28675.8	27810.2	25631.0
62.5°	18834.4	19087.2	20383.5	23715.5	27810.2	30842.1	31746.3	31504.2	30195.0	29226.5	27495.2
65°	16117.4	16207.4	17443.8	21079.9	25931.0	30516.4	33239.8	33149.8	31564.2	30602.1	28453.0
67.5°	11769.9	11574.9	12873.4	16599.5	21954.2	28618.0	34311.1	34424.7	32620.5	30884.9	27433.0
68°	10741.4	10799.2	11810.6	15491.8	20912.8	27947.3	34381.8	34555.4	32725.5	30700.7	26875.9
70°	6402.4	6513.8	7415.9	10666.4	15909.6	24152.6	33619.0	34015.4	32099.9	28800.1	23246.2
72.5°	1634.9	1767.7	2620.5	4773.9	9087.2	17017.4	28380.1	29050.8	27870.2	23364.1	15693.2
75°	672.8	707.1	936.4	1572.7	3385.5	7666.6	18705.8	20141.4	19320.8	13987.6	7092.4
77.5°	465.0	488.5	602.1	872.1	1465.6	2599.1	9170.8	10207.8	9196.5	4773.9	1547.0
80°	334.3	353.5	430.7	580.7	842.1	927.8	2989.1	3456.2	2744.8	1047.8	383.5
82.5°	199.3	214.3	321.4	413.5	512.1	443.5	743.5	844.2	794.9	520.7	171.4
85°	98.6	115.7	216.4	295.7	276.4	186.4	227.1	252.8	312.8	317.1	92.1
87.5°	6.4	12.9	126.4	177.8	77.1	42.9	66.4	81.4	111.4	156.4	38.6
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°	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6	5384.6
2.5°	5399.6	5401.8	5386.8	5380.3	5384.6	5358.9	5348.2	5352.5	5352.5	5358.9	5348.2
5°	5453.2	5453.2	5427.5	5393.2	5373.9	5324.6	5292.5	5283.9	5277.5	5273.2	5264.6
7.5°	5568.9	5556.0	5511.0	5436.0	5371.8	5264.6	5183.2	5140.3	5118.9	5110.4	5103.9
10°	5755.3	5731.7	5656.7	5517.5	5369.6	5178.9	5001.1	4874.7	4769.7	4726.8	4701.1
12.5°	6006.0	5971.7	5845.3	5613.9	5354.6	5003.2	4617.5	4246.8	3901.9	3760.4	3689.7
15°	6295.3	6246.0	6046.7	5695.3	5266.8	4606.8	3769.0	3119.8	2642.0	2462.0	2384.8
17.5°	6588.8	6524.5	6222.4	5746.7	5003.2	3786.2	2644.1	1997.0	1677.7	1592.0	1562.0
20°	6884.5	6790.2	6374.5	5708.2	4407.5	2729.8	1744.2	1459.2	1367.0	1341.3	1332.8
22.5°	7165.2	7019.5	6511.7	5558.2	3490.5	1832.0	1379.9	1289.9	1259.9	1244.9	1240.6
25°	7409.5	7205.9	6631.7	5095.4	2470.5	1384.2	1242.8	1212.8	1174.2	1146.3	1148.5
27.5°	7638.7	7392.3	6704.5	4332.5	1647.7	1182.8	1150.6	1109.9	1039.2	998.5	998.5
30°	7915.2	7640.9	6758.1	3334.0	1212.8	1045.6	1019.9	957.8	861.4	807.8	807.8
32.5°	8330.8	8018.0	6723.8	2339.8	1004.9	919.2	859.2	773.5	668.5	617.1	615.0
35°	8967.2	8600.8	6479.5	1534.2	887.1	799.2	702.8	597.8	505.7	462.8	460.7
37.5°	9824.3	9380.8	5931.0	1097.1	794.9	687.8	572.1	456.4	387.8	360.0	357.8
40°	10936.4	10287.1	5146.8	889.2	709.2	580.7	441.4	353.5	306.4	285.0	287.1
42.5°	12271.3	11257.8	4206.1	767.1	625.7	477.8	345.0	278.6	248.6	233.6	229.3
45°	13754.0	12215.6	3220.5	683.5	542.1	385.7	270.0	220.7	197.1	188.6	188.6
47.5°	15384.6	13147.6	2357.0	610.7	452.1	297.8	216.4	180.0	160.7	154.3	152.1
50°	16865.2	13794.7	1699.2	533.5	370.7	235.7	175.7	150.0	137.1	128.6	128.6
52.5°	18099.4	13998.3	1251.3	450.0	300.0	188.6	145.7	128.6	115.7	109.3	109.3
55°	19185.8	13914.7	929.9	370.7	242.1	154.3	124.3	109.3	98.6	92.1	92.1
57.5°	20227.1	13644.7	694.2	302.1	195.0	124.3	105.0	92.1	81.4	77.1	77.1
60°	21077.8	13194.8	516.4	244.3	156.4	100.7	87.9	75.0	66.4	60.0	60.0
62.5°	21767.7	12697.7	379.3	201.4	124.3	79.3	68.6	62.1	49.3	42.9	42.9
65°	21772.0	11872.7	285.0	167.1	96.4	62.1	51.4	49.3	32.1	25.7	23.6
67.5°	20197.1	10235.7	218.6	143.6	75.0	47.1	38.6	40.7	17.1	10.7	8.6
68°	19625.0	9820.0	205.7	141.4	70.7	45.0	36.4	40.7	15.0	8.6	6.4
70°	16546.0	7812.3	165.0	137.1	62.1	34.3	30.0	40.7	12.9	6.4	4.3
72.5°	10582.8	4534.0	122.1	109.3	47.1	25.7	19.3	36.4	12.9	4.3	2.1
75°	4504.0	1405.6	83.6	77.1	27.9	19.3	12.9	23.6	8.6	2.1	0.0
77.5°	949.2	317.1	49.3	47.1	19.3	12.9	8.6	6.4	2.1	0.0	0.0
80°	244.3	92.1	25.7	23.6	10.7	6.4	4.3	0.0	0.0	0.0	0.0
82.5°	77.1	36.4	15.0	10.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.6	21.4	8.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.4	6.4	2.1	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)