

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: P321672

Luminaire Tested: **GAN-SA8A-760-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321672
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-760-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28725 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

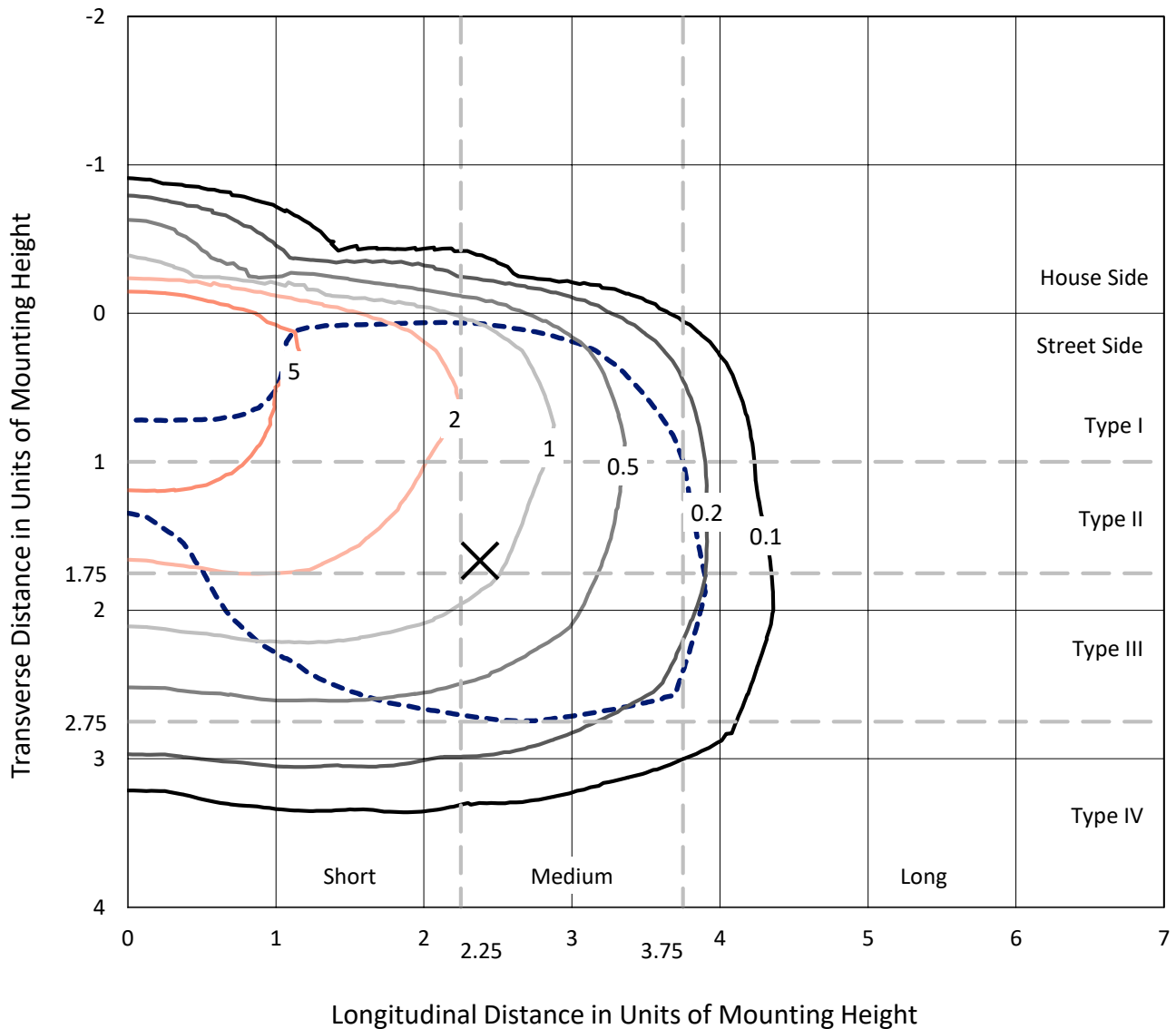
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

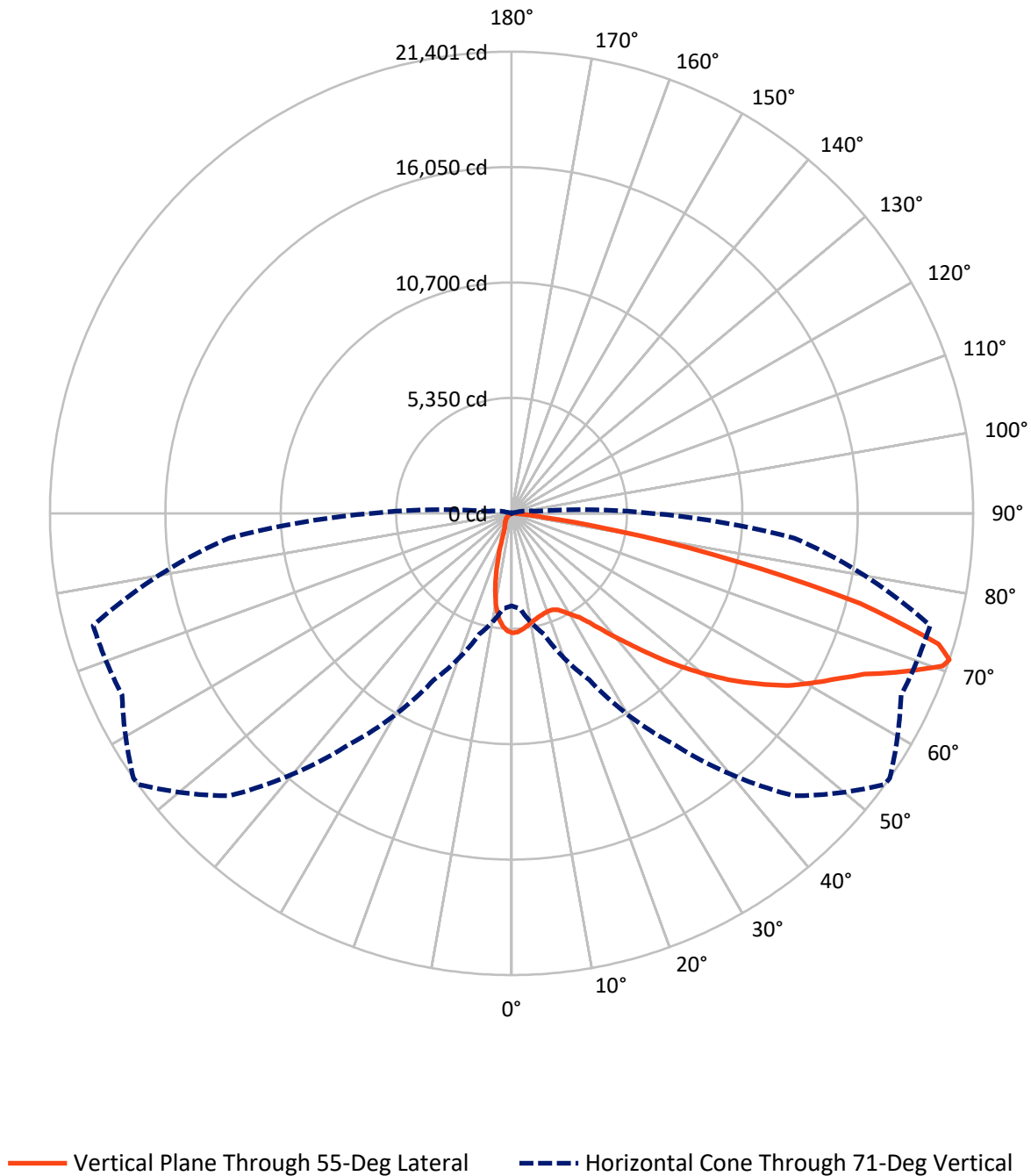
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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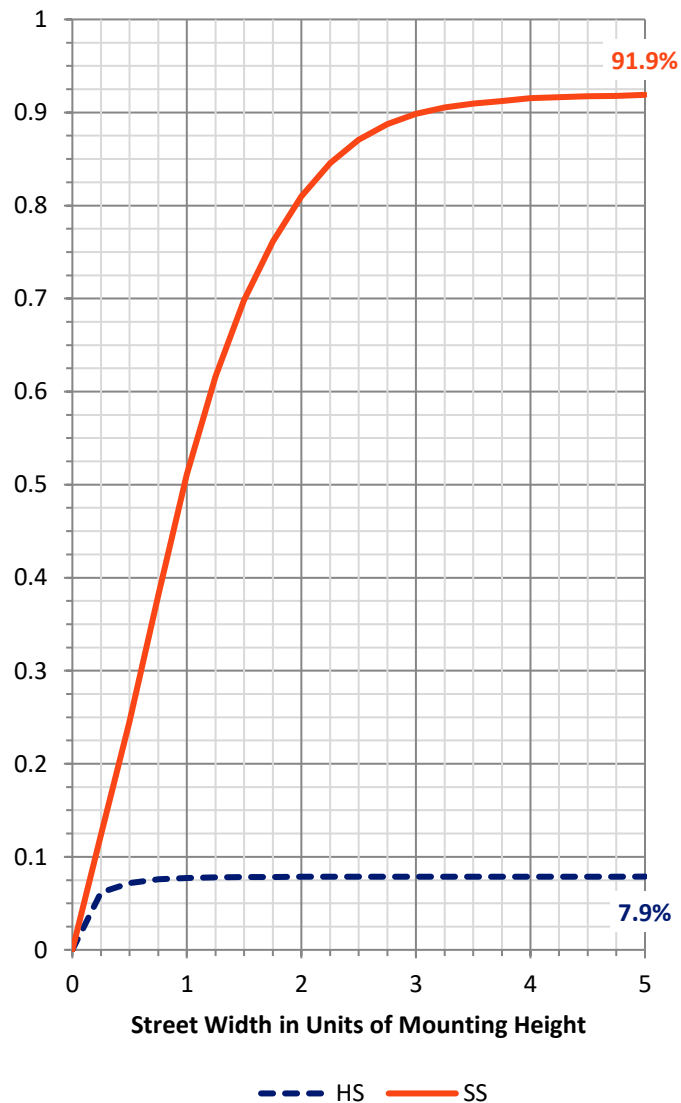
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2274.2	0.0	2274.2
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	26450.8	0.0	26450.8
	% Fixture	92.1	0.0	92.1
Total	Lumens	28725.0	0.0	28725.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.3	1.6
10°-20°	1066.3	3.7
20°-30°	1713.6	6.0
30°-40°	2911.5	10.1
40°-50°	4519.1	15.7
50°-60°	6075.8	21.2
60°-70°	7432.7	25.9
70°-80°	4345.7	15.1
80°-90°	187.9	0.7
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°	28725.0	100.0
0°-180°	28725.0	100.0

Coefficient of Utilization



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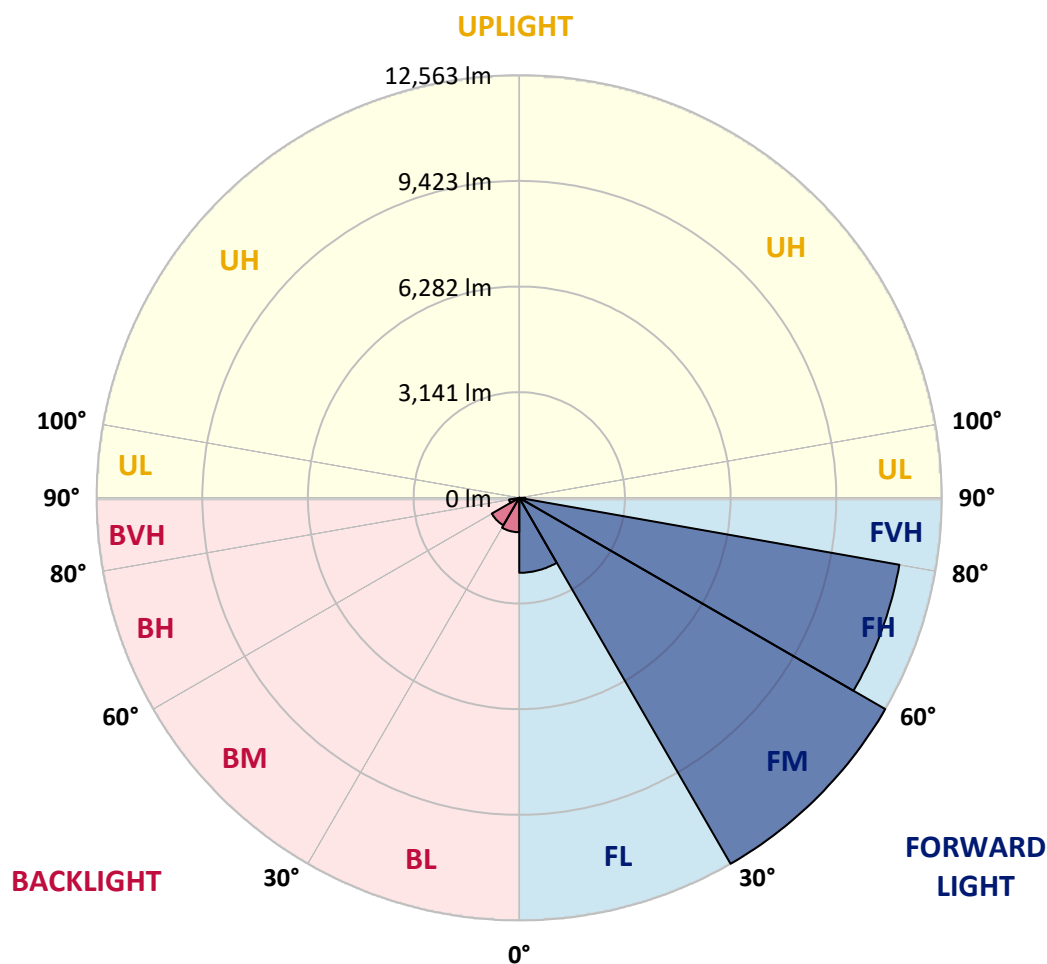
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2228.7	7.8			
FM	(30°-60°)	12563.5	43.7			
FH	(60°-80°)	11473.7	39.9			G4/12000
FVH	(80°-90°)	184.9	0.6			G2/225
BL	(0°-30°)	1023.6	3.6	B3/2500		
BM	(30°-60°)	942.9	3.3	B1/1000		
BH	(60°-80°)	304.7	1.1	B1/500		G1/500
BVH	(80°-90°)	3.0	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-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5539.7	5539.7	5539.7	5539.7	5539.7	5539.7	5539.7	5539.7	5539.7	5539.7	5539.7
2.5°	5377.2	5383.7	5406.9	5417.2	5441.7	5483.0	5503.6	5504.9	5538.4	5551.3	5561.6
5°	4996.7	5035.4	5074.1	5115.4	5190.2	5289.5	5387.5	5396.6	5504.9	5584.9	5627.4
7.5°	4669.1	4703.9	4750.4	4816.1	4921.9	5078.0	5241.8	5261.1	5466.2	5648.1	5743.5
10°	4332.5	4360.8	4427.9	4524.6	4670.4	4879.3	5099.9	5132.1	5431.4	5733.2	5900.9
12.5°	3972.6	3989.4	4070.6	4209.9	4424.0	4689.7	4979.9	5022.5	5409.4	5831.2	6086.6
15°	3699.2	3706.9	3784.3	3928.8	4173.8	4519.5	4887.1	4938.7	5414.6	5948.6	6289.1
17.5°	3629.5	3633.4	3674.7	3774.0	3990.7	4367.3	4813.6	4876.8	5430.1	6063.4	6492.9
20°	3912.0	3884.9	3842.3	3826.9	3919.7	4275.7	4769.7	4840.6	5450.7	6165.3	6676.0
22.5°	4687.2	4607.2	4430.5	4194.5	4051.3	4282.2	4781.3	4852.3	5516.5	6290.4	6887.6
25°	5837.7	5726.7	5426.2	4961.9	4515.6	4467.9	4878.0	4950.3	5644.2	6440.0	7090.1
27.5°	7146.8	7037.2	6669.6	6006.6	5245.6	4835.5	5099.9	5167.0	5833.8	6572.9	7244.8
30°	8400.5	8369.6	7936.2	7182.9	6164.0	5431.4	5386.2	5443.0	5974.4	6652.8	7367.4
32.5°	9463.3	9414.3	9066.1	8333.4	7215.2	6147.2	5722.9	5739.6	6080.1	6756.0	7527.3
35°	10448.7	10388.1	10082.4	9389.8	8293.5	7021.7	6241.4	6216.9	6311.0	6963.7	7759.5
37.5°	11309.0	11364.5	11025.3	10366.2	9260.8	7931.0	6940.4	6866.9	6672.2	7301.6	8096.1
40°	12028.7	12028.7	11852.0	11302.6	10305.6	8871.3	7731.1	7634.4	7215.2	7822.7	8523.0
42.5°	12288.0	12343.4	12409.2	12098.4	11240.7	9849.0	8612.0	8511.4	7980.0	8561.7	9062.2
45°	12303.5	12391.2	12727.8	12726.5	12085.5	10820.2	9605.2	9557.5	8960.3	9511.0	9730.3
47.5°	12085.5	12195.1	12749.7	13064.5	12754.9	11724.3	10691.2	10631.9	10112.1	10674.4	10429.4
50°	11748.8	11870.1	12515.0	13197.3	13210.2	12511.1	11835.3	11746.3	11380.0	12004.2	11151.7
52.5°	11146.5	11381.3	12304.8	13228.3	13509.4	13190.9	12923.9	12885.2	12798.8	13285.0	11726.9
55°	9858.0	10118.5	11777.2	13238.6	13786.7	13793.2	13944.1	13954.4	14128.5	14481.9	12155.1
57.5°	9249.2	9396.2	10856.3	13287.6	14198.2	14476.8	14983.7	15063.7	15333.2	15618.3	12644.0
60°	8866.1	9040.3	10402.3	13220.5	14844.4	15373.2	15947.2	15974.3	16263.2	16790.7	13305.6
62.5°	8560.4	8732.0	10116.0	12962.6	15570.5	16451.5	16888.7	16891.3	17108.0	18187.6	14057.6
65°	7805.9	7950.4	9536.8	12672.3	16050.4	17518.2	17982.5	17965.7	18142.4	19660.5	14930.8
67.5°	6714.7	6825.7	8354.1	11572.1	15869.8	18488.1	19633.4	19578.0	19363.9	20933.6	15273.9
70°	5191.5	5231.5	6584.5	9643.9	14177.6	18860.8	21228.9	21200.6	20113.2	20705.3	14016.3
71°	4291.2	4422.7	5802.8	8511.4	13043.8	18516.5	21383.7	21400.5	19924.9	20083.6	13150.9
72.5°	2491.9	2604.1	4206.1	6536.7	11074.3	17079.6	20581.4	20702.7	19045.3	18267.5	11232.9
75°	534.0	571.4	1559.4	3163.9	6091.8	11970.7	16245.1	16677.2	15522.8	12427.3	6770.2
77.5°	371.5	401.1	668.1	1435.6	2013.4	5915.1	10091.4	10579.0	9273.7	4670.4	2166.9
80°	294.1	327.6	521.1	709.4	544.3	1907.6	4727.1	5025.1	3093.0	1042.2	365.0
82.5°	163.8	194.8	406.3	383.1	208.9	362.4	1323.3	1496.2	619.1	210.2	86.4
85°	47.7	58.0	261.8	278.6	89.0	69.6	225.7	279.9	117.4	55.5	38.7
87.5°	0.0	0.0	126.4	107.1	25.8	10.3	20.6	23.2	23.2	23.2	25.8
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°	5539.7	5539.7	5539.7	5539.7	5539.7	5539.7	5539.7	5539.7	5539.7	5539.7	5539.7
2.5°	5561.6	5570.7	5538.4	5495.9	5450.7	5395.3	5337.2	5292.1	5290.8	5268.9	5246.9
5°	5630.0	5624.8	5535.8	5400.4	5240.5	5074.1	4915.5	4736.2	4676.8	4603.3	4578.8
7.5°	5756.4	5720.3	5532.0	5235.3	4884.5	4536.2	4176.4	3814.0	3659.2	3519.9	3495.4
10°	5915.1	5846.7	5507.5	4987.7	4344.1	3701.7	3158.7	2666.0	2449.3	2283.0	2275.2
12.5°	6080.1	5975.7	5439.1	4613.6	3636.0	2733.1	2107.5	1622.6	1442.0	1325.9	1336.2
15°	6253.0	6096.9	5292.1	4109.3	2829.8	1854.7	1295.0	1009.9	937.7	908.0	915.8
17.5°	6429.7	6180.8	5087.0	3501.8	2034.0	1196.9	896.4	816.4	816.4	822.9	825.5
20°	6583.2	6225.9	4785.2	2820.8	1378.8	871.9	784.2	772.6	779.0	789.4	790.7
22.5°	6735.4	6228.5	4391.8	2130.8	964.8	763.6	746.8	741.6	745.5	757.1	758.4
25°	6859.2	6197.5	3899.1	1515.5	770.0	719.7	712.0	709.4	712.0	726.2	726.2
27.5°	6909.5	6085.3	3298.0	1065.4	690.0	670.7	668.1	670.7	674.6	684.9	686.2
30°	6914.7	5889.3	2642.8	771.3	625.6	604.9	610.1	619.1	615.2	612.7	615.2
32.5°	6927.6	5662.3	2004.4	634.6	571.4	539.1	532.7	532.7	517.2	508.2	503.0
35°	6970.1	5395.3	1453.6	570.1	515.9	478.5	454.0	425.6	396.0	380.5	376.6
37.5°	7037.2	5115.4	1040.9	527.5	466.9	424.3	377.9	327.6	285.0	273.4	273.4
40°	7159.7	4826.5	770.0	494.0	428.2	375.3	305.7	239.9	201.2	194.8	194.8
42.5°	7353.2	4522.1	613.9	464.3	394.7	325.0	233.5	174.1	145.7	141.9	140.6
45°	7554.4	4186.7	536.6	436.0	358.6	267.0	172.8	129.0	112.2	108.3	108.3
47.5°	7755.6	3829.4	499.2	408.9	323.7	207.7	129.0	101.9	94.2	94.2	95.4
50°	7925.9	3456.7	472.1	379.2	278.6	157.4	101.9	86.4	83.8	89.0	90.3
52.5°	7968.4	3090.4	438.5	341.8	223.1	120.0	83.8	76.1	76.1	76.1	76.1
55°	7942.6	2806.6	394.7	295.4	165.1	95.4	72.2	67.1	65.8	65.8	65.8
57.5°	8030.3	2638.9	316.0	229.6	118.7	77.4	63.2	59.3	56.8	55.5	55.5
60°	8207.0	2529.3	225.7	165.1	89.0	64.5	54.2	50.3	46.4	43.9	43.9
62.5°	8441.8	2433.9	167.7	122.5	68.4	51.6	45.1	41.3	36.1	33.5	33.5
65°	8622.4	2263.6	127.7	91.6	51.6	41.3	34.8	33.5	25.8	23.2	21.9
67.5°	8346.3	1889.6	103.2	67.1	38.7	32.2	27.1	25.8	15.5	12.9	12.9
70°	7158.4	1315.6	82.5	49.0	28.4	25.8	21.9	16.8	11.6	10.3	10.3
71°	6491.6	1098.9	74.8	41.3	24.5	24.5	20.6	14.2	10.3	9.0	9.0
72.5°	5392.7	780.3	63.2	32.2	21.9	25.8	21.9	12.9	10.3	9.0	7.7
75°	3130.4	326.3	43.9	21.9	16.8	31.0	28.4	11.6	7.7	6.4	6.4
77.5°	941.6	120.0	24.5	14.2	12.9	27.1	32.2	10.3	3.9	1.3	1.3
80°	171.5	51.6	15.5	9.0	9.0	16.8	24.5	5.2	0.0	0.0	0.0
82.5°	60.6	25.8	9.0	5.2	3.9	7.7	11.6	0.0	0.0	0.0	0.0
85°	34.8	18.1	5.2	2.6	0.0	1.3	2.6	0.0	0.0	0.0	0.0
87.5°	23.2	5.2	0.0	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)