

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: P318503

Luminaire Tested: **GAN-SA9D-760-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318503
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-760-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 69380 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

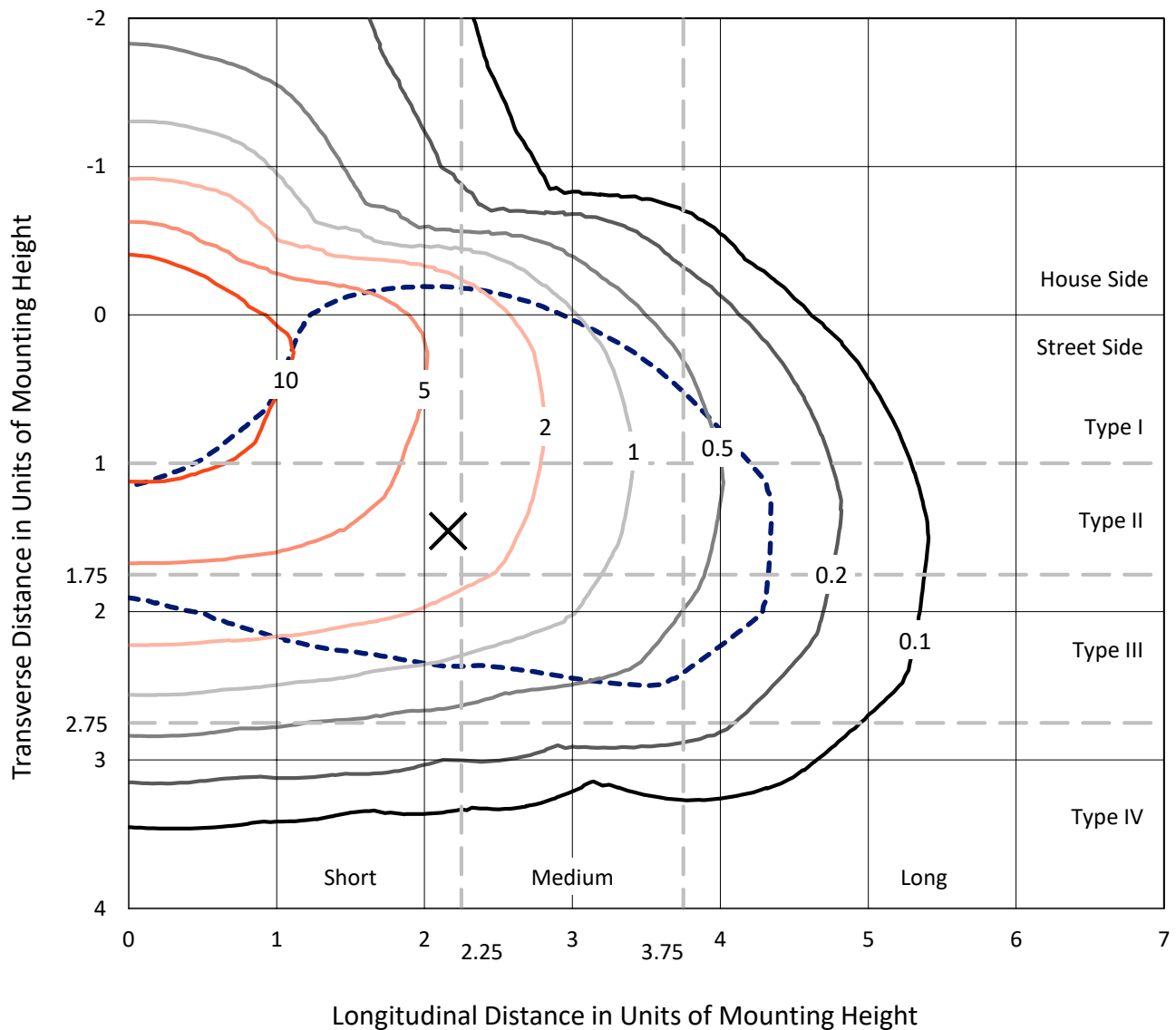
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

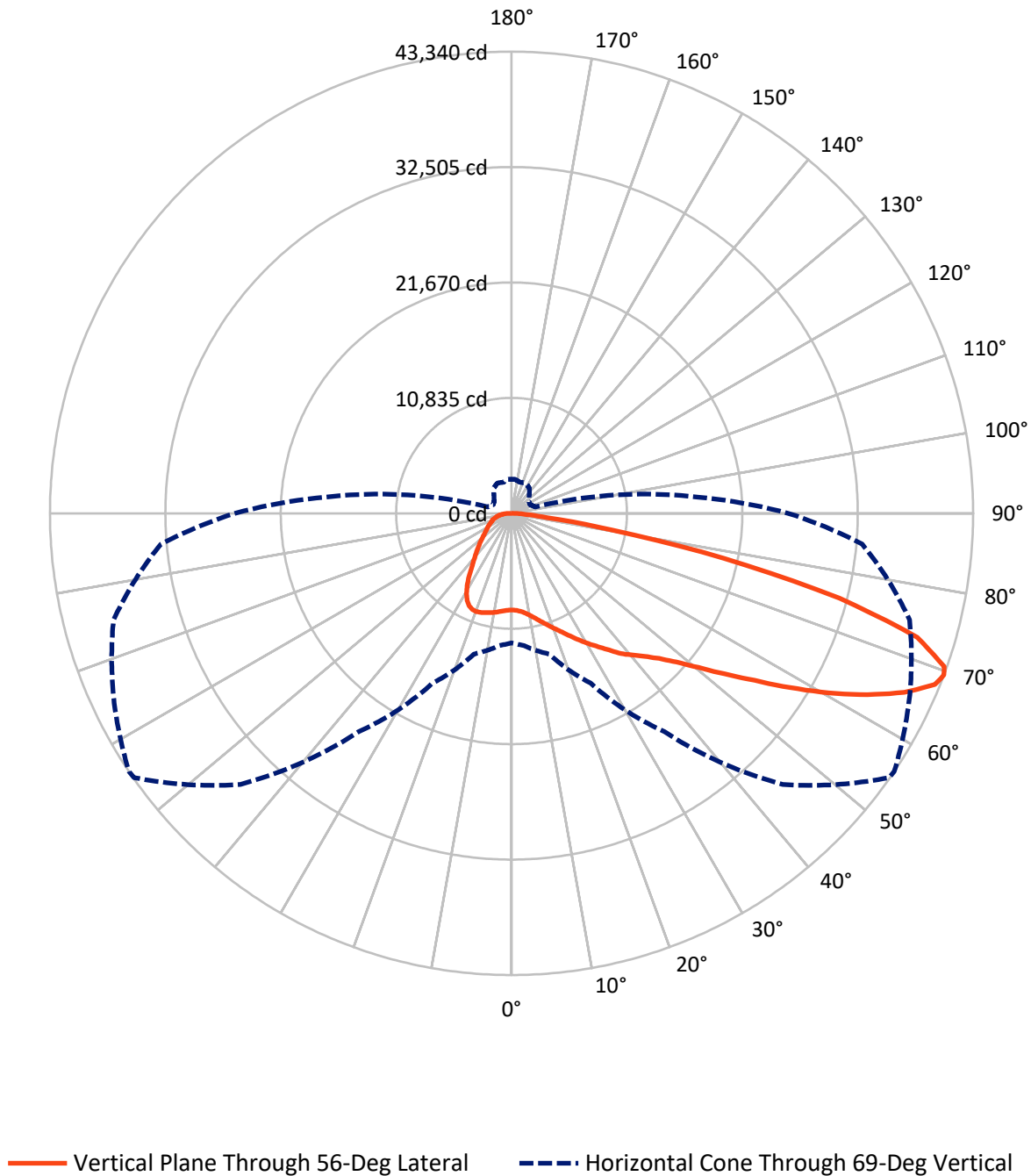
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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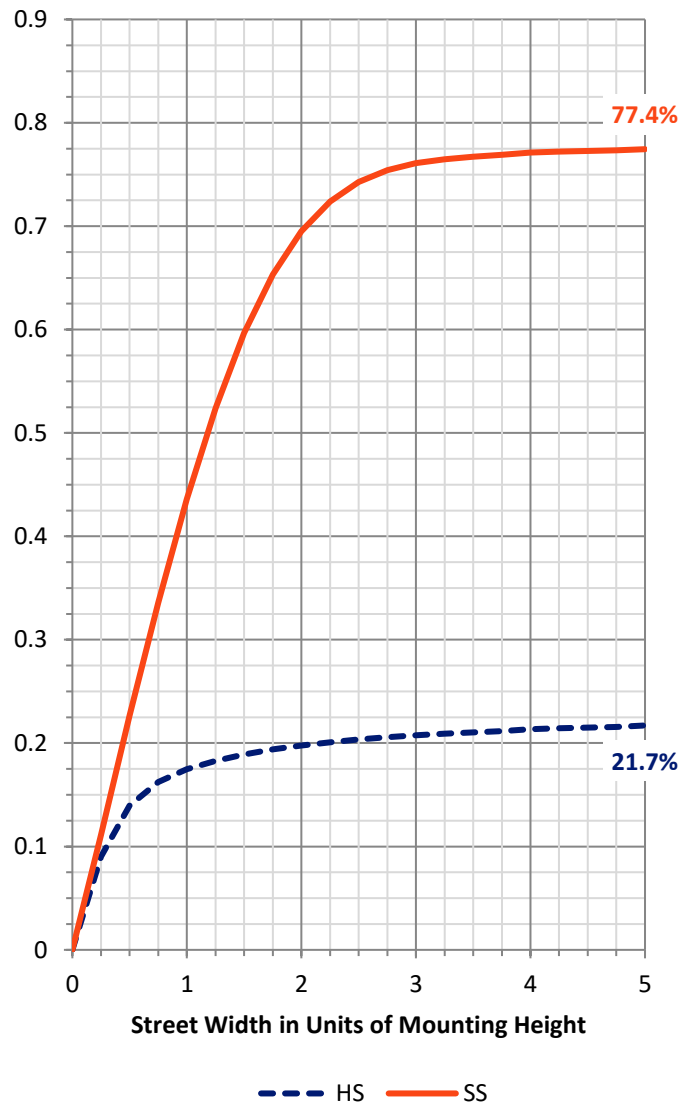
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15450.8	0.0	15450.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	53929.2	0.0	53929.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	69380.0	0.0	69380.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	890.8	1.3
10°-20°	2864.6	4.1
20°-30°	5000.6	7.2
30°-40°	7183.1	10.4
40°-50°	9941.1	14.3
50°-60°	14565.0	21.0
60°-70°	17757.5	25.6
70°-80°	9817.5	14.2
80°-90°	1359.7	2.0
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°	69380.0	100.0
0°-180°	69380.0	100.0

Coefficient of Utilization



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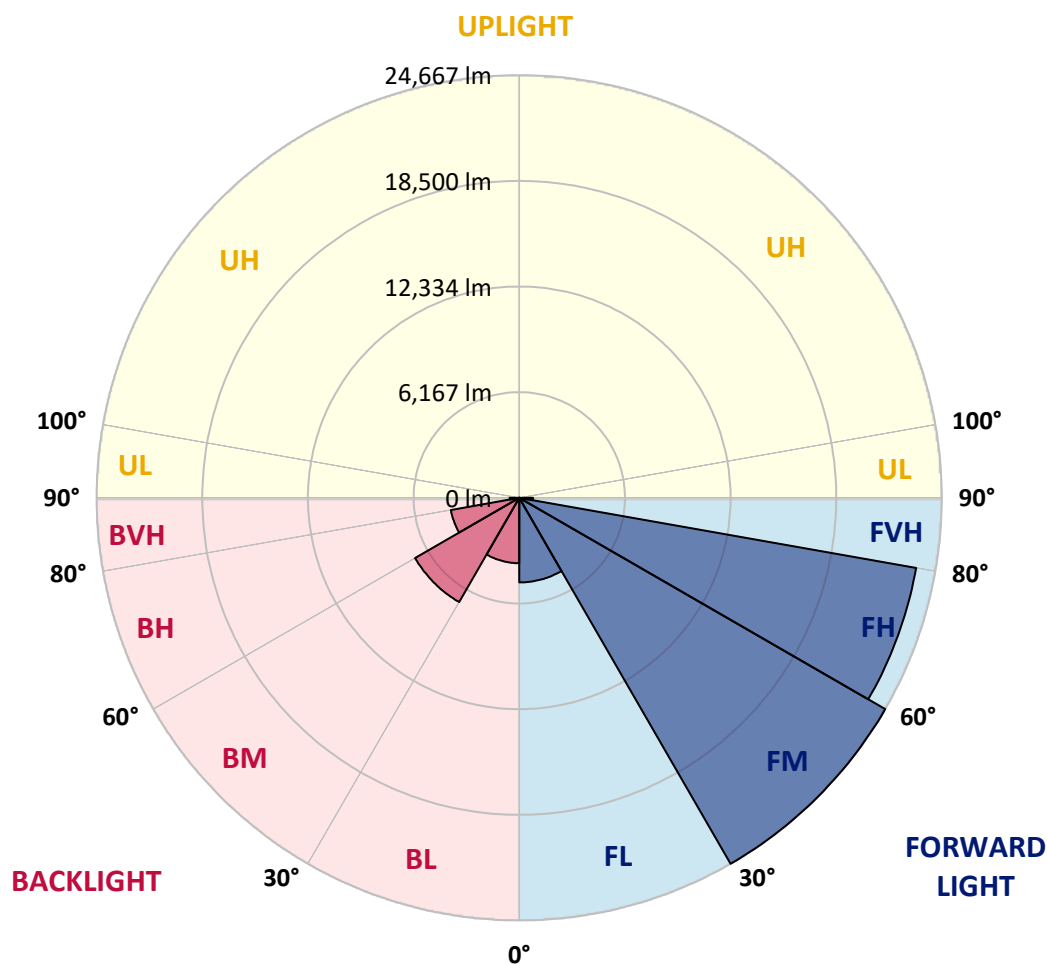
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4937.8	7.1			
FM	(30°-60°)	24667.2	35.6			
FH	(60°-80°)	23523.3	33.9			G5
FVH	(80°-90°)	800.9	1.2			G5
BL	(0°-30°)	3818.2	5.5	B4/5000		
BM	(30°-60°)	7022.0	10.1	B4/8500		
BH	(60°-80°)	4051.7	5.8	B4/5000		G4/5000
BVH	(80°-90°)	558.8	0.8			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	9070.4	9070.4	9070.4	9070.4	9070.4	9070.4	9070.4	9070.4	9070.4	9070.4	9070.4
2.5°	9127.8	9137.3	9130.1	9149.3	9127.8	9142.1	9130.1	9130.1	9123.0	9101.5	9077.6
5°	9271.2	9290.3	9278.3	9297.4	9271.2	9275.9	9254.4	9254.4	9232.9	9187.5	9139.7
7.5°	9495.8	9517.3	9507.8	9526.9	9491.0	9491.0	9462.4	9460.0	9417.0	9342.9	9287.9
10°	9763.5	9792.2	9782.6	9811.3	9782.6	9792.2	9763.5	9763.5	9706.2	9601.0	9531.7
12.5°	10153.1	10189.0	10162.7	10160.3	10148.3	10167.4	10143.5	10138.8	10086.2	9942.8	9847.2
15°	10674.1	10712.4	10657.4	10652.6	10585.7	10578.5	10578.5	10571.4	10537.9	10365.8	10208.1
17.5°	11274.1	11286.0	11238.2	11161.7	11075.7	11020.7	11013.5	11032.7	11032.7	10831.9	10580.9
20°	11862.0	11883.5	11845.3	11759.2	11649.3	11568.0	11510.7	11548.9	11546.5	11307.5	10951.4
22.5°	12502.6	12552.8	12495.4	12385.4	12256.4	12165.6	12065.2	12098.6	12101.0	11807.0	11314.7
25°	13331.9	13286.5	13250.7	13095.3	12911.3	12818.1	12724.8	12758.3	12748.7	12344.8	11689.9
27.5°	14065.7	14075.2	14027.4	13862.5	13649.8	13444.3	13439.5	13461.0	13425.1	12904.1	12043.7
30°	14918.9	14923.7	14856.8	14708.6	14476.8	14211.5	14149.3	14185.2	14108.7	13434.7	12416.5
32.5°	15767.4	15791.3	15717.2	15538.0	15351.5	15028.9	14904.6	14928.5	14737.3	13977.2	12801.3
35°	16510.7	16544.2	16520.3	16400.8	16197.6	15920.4	15772.2	15757.9	15521.2	14641.7	13310.4
37.5°	17268.4	17299.5	17273.2	17172.8	17091.5	16797.6	16718.7	16718.7	16307.6	15320.5	13958.1
40°	18047.6	18095.4	18064.3	17925.7	17856.4	17722.5	17533.7	17488.3	17043.7	16135.5	15014.5
42.5°	18771.8	18833.9	18958.2	18876.9	18735.9	18755.0	18375.0	18351.1	18026.1	17340.1	16341.0
45°	19799.5	19890.3	20100.7	20038.5	20009.8	19904.7	19452.9	19431.4	19307.1	18960.6	17987.8
47.5°	20920.5	21044.7	21424.8	21436.7	21745.0	21546.7	20932.4	20858.3	20887.0	20901.3	19997.9
50°	21953.0	22089.2	22713.0	23007.0	23733.6	23776.6	22794.3	22727.4	22839.7	23169.5	22340.2
52.5°	22777.6	22949.6	23728.8	24637.0	25882.3	26236.0	25086.4	25036.2	25119.8	25688.7	24988.4
55°	23382.2	23568.7	24417.2	26071.1	28059.7	28683.5	27725.0	27677.2	27729.8	28454.0	27868.4
57.5°	23523.3	23568.7	24799.6	27036.7	29897.6	31396.2	30954.1	30858.4	30600.3	31231.3	31047.3
60°	22861.2	23042.9	24484.1	27376.1	31319.7	34070.7	34328.9	34209.4	33485.2	34001.4	33853.2
62.5°	21518.0	21843.0	23305.8	26859.8	31876.6	36255.3	37639.1	37495.7	36248.1	36582.7	35870.5
65°	19323.9	19462.5	20999.3	25079.2	31169.2	37653.5	40590.9	40519.2	38948.9	38425.5	36243.3
67.5°	15399.3	15659.9	16964.9	21357.8	28274.8	37488.6	42873.4	42866.3	40712.8	39109.0	34921.6
69°	12165.6	12435.6	13678.5	17593.5	25019.5	35980.4	43255.8	43339.5	41209.9	38693.2	33033.4
70°	9699.0	10012.1	10865.3	14818.6	22129.8	33991.9	42938.0	43088.5	41114.3	38007.2	31291.1
72.5°	4127.7	4381.0	4988.1	7638.7	13487.3	25382.8	39259.6	39828.5	38898.7	34785.4	25860.8
75°	1802.1	1881.0	2155.9	3114.3	5987.2	13814.7	30755.7	31807.3	33260.5	29402.9	19264.1
77.5°	1319.3	1352.8	1503.4	1828.4	2686.5	5217.6	19778.0	20389.9	23986.9	21396.1	11816.6
80°	1020.6	1044.5	1161.6	1343.2	1754.3	2110.4	9020.2	9546.0	13487.3	10989.6	4921.2
82.5°	812.6	829.4	910.6	989.5	1211.8	1278.7	2994.8	3322.2	4978.6	3035.4	1302.6
85°	755.3	774.4	803.1	721.8	776.8	750.5	1295.4	1355.2	1503.4	1192.7	544.9
87.5°	341.8	403.9	795.9	561.7	413.5	329.8	530.6	554.5	623.8	626.2	241.4
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°	9070.4	9070.4	9070.4	9070.4	9070.4	9070.4	9070.4	9070.4	9070.4	9070.4	9070.4
2.5°	9091.9	9084.7	9096.7	9068.0	9103.9	9101.5	9089.5	9094.3	9118.2	9115.8	9118.2
5°	9146.9	9142.1	9156.4	9134.9	9177.9	9192.3	9194.7	9216.2	9242.5	9249.6	9249.6
7.5°	9285.5	9285.5	9292.7	9264.0	9292.7	9290.3	9278.3	9299.8	9326.1	9328.5	9326.1
10°	9524.5	9526.9	9514.9	9440.9	9417.0	9352.4	9292.7	9295.1	9328.5	9354.8	9362.0
12.5°	9825.7	9816.1	9763.5	9627.3	9526.9	9395.4	9333.3	9330.9	9364.4	9385.9	9393.1
15°	10169.8	10143.5	10007.3	9785.0	9608.2	9479.1	9378.7	9354.8	9335.7	9311.8	9314.2
17.5°	10494.9	10435.1	10208.1	9899.8	9713.3	9541.2	9347.6	9192.3	9084.7	9022.6	9003.5
20°	10824.7	10707.6	10380.2	10007.3	9770.7	9457.6	9084.7	8769.2	8573.3	8482.4	8465.7
22.5°	11125.9	10937.1	10540.3	10119.6	9725.3	9175.6	8590.0	8131.1	7858.6	7736.7	7746.3
25°	11419.8	11156.9	10707.6	10198.5	9495.8	8678.4	7901.6	7337.6	7022.1	6885.8	6881.1
27.5°	11678.0	11379.2	10889.2	10134.0	9068.0	7970.9	7086.6	6536.9	6274.0	6156.9	6137.8
30°	11974.3	11658.9	11130.6	9887.8	8441.8	7153.5	6290.7	5903.5	5717.1	5600.0	5578.5
32.5°	12335.3	12038.9	11329.0	9440.9	7641.1	6300.3	5669.3	5399.2	5229.5	5098.1	5074.2
35°	12861.1	12540.8	11379.2	8800.3	6761.6	5626.3	5212.8	4935.5	4706.1	4536.4	4519.7
37.5°	13520.7	13169.4	11264.5	7970.9	5908.3	5188.9	4832.8	4491.0	4192.2	3953.2	3915.0
40°	14472.0	13941.4	10946.6	7014.9	5279.7	4851.9	4462.3	4072.7	3702.2	3422.6	3367.6
42.5°	15614.5	14847.2	10459.0	6063.7	4818.4	4510.1	4094.2	3611.4	3257.7	3059.3	3030.6
45°	17067.6	15788.9	9782.6	5231.9	4364.3	4168.3	3697.5	3252.9	3033.0	2887.2	2863.3
47.5°	18726.4	16845.4	9072.8	4555.5	3979.5	3848.0	3379.6	3092.8	2918.3	2803.6	2782.1
50°	20765.1	18038.0	8319.9	4001.0	3592.3	3463.2	3229.0	3004.3	2865.7	2777.3	2755.8
52.5°	23064.4	19383.6	7777.4	3563.6	3272.0	3178.8	3150.1	2956.5	2844.2	2777.3	2755.8
55°	25540.5	20753.1	7191.8	3195.6	2994.8	3021.1	3097.6	2961.3	2884.8	2803.6	2772.5
57.5°	28019.0	22168.1	6539.3	2884.8	2774.9	2904.0	3061.7	2970.9	2906.3	2827.5	2798.8
60°	29978.9	23064.4	5528.3	2624.3	2600.4	2774.9	2975.7	2899.2	2815.5	2817.9	2813.1
62.5°	30894.3	23016.6	4412.1	2392.5	2425.9	2600.4	2837.0	2786.8	2717.5	2810.7	2817.9
65°	30380.4	21869.3	3434.6	2182.2	2239.5	2418.8	2693.6	2731.9	2755.8	2935.0	2958.9
67.5°	28224.6	19637.0	2660.2	1998.1	2069.8	2294.5	2708.0	2975.7	3006.7	3195.6	3193.2
69°	25994.6	17543.3	2311.2	1902.5	1986.2	2325.6	2894.4	3131.0	3013.9	3214.7	3186.0
70°	24125.6	15886.9	2124.8	1838.0	1947.9	2380.5	3018.7	3128.6	2978.1	3150.1	3102.3
72.5°	18580.6	11429.4	1802.1	1718.5	1818.9	2277.8	3054.5	3059.3	2894.4	2927.9	2846.6
75°	12744.0	7222.9	1572.7	1555.9	1622.9	2053.1	2939.8	2923.1	2676.9	2629.1	2562.2
77.5°	7026.9	3668.8	1336.1	1400.6	1446.0	1818.9	2672.1	2648.2	2445.1	2344.7	2320.8
80°	2710.4	1606.1	1128.1	1245.2	1273.9	1575.1	2342.3	2320.8	2151.1	2022.0	1986.2
82.5°	1023.0	841.3	932.1	1077.9	1068.4	1300.2	1983.8	1971.8	1806.9	1618.1	1560.7
85°	473.2	504.3	738.5	889.1	819.8	963.2	1587.0	1608.5	1407.8	1183.1	1183.1
87.5°	200.8	282.0	523.4	671.6	552.1	650.1	1164.0	1111.4	1020.6	707.5	664.4
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)