

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: P318983

Luminaire Tested: **GAN-SA9D-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57604 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

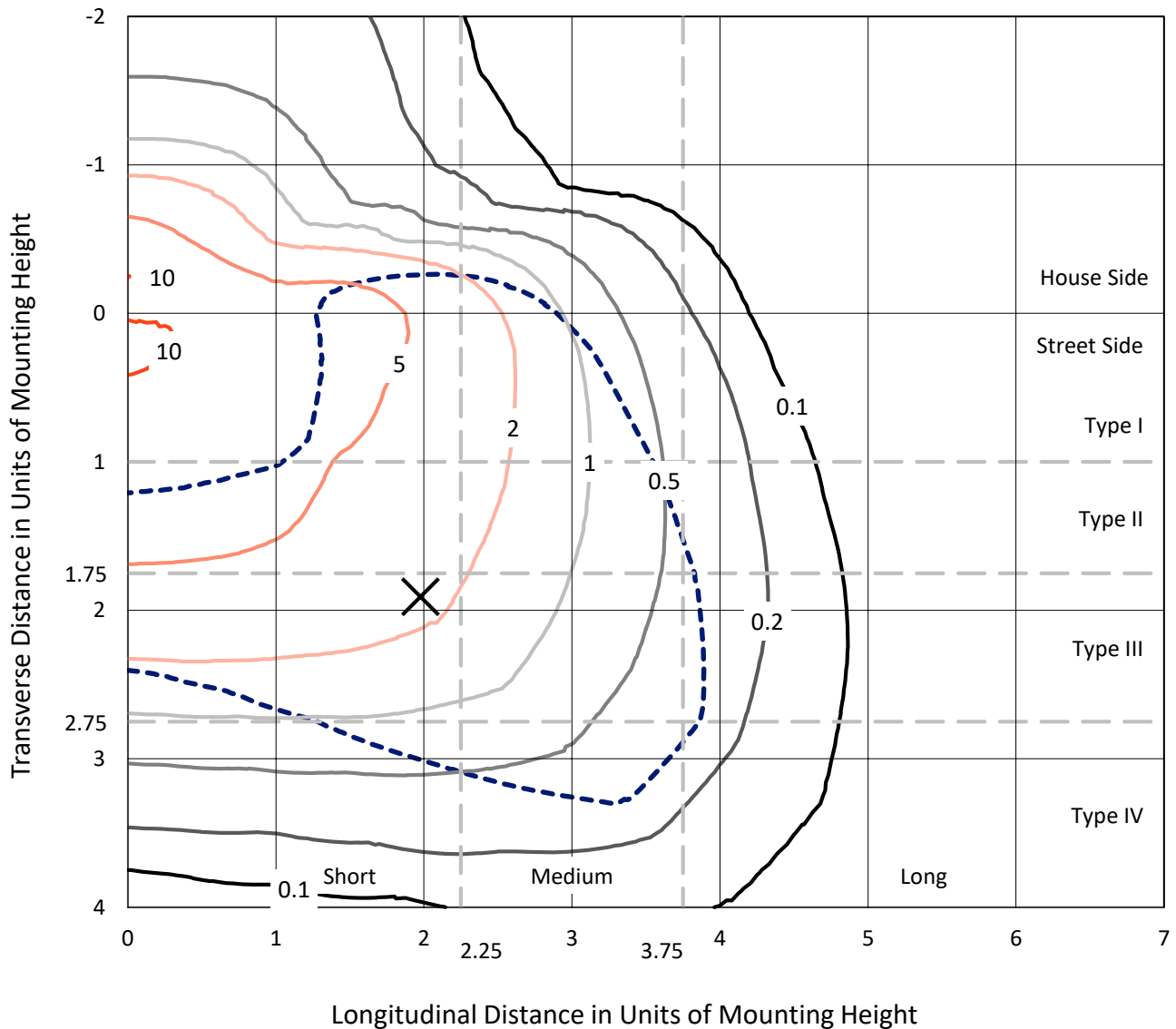
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

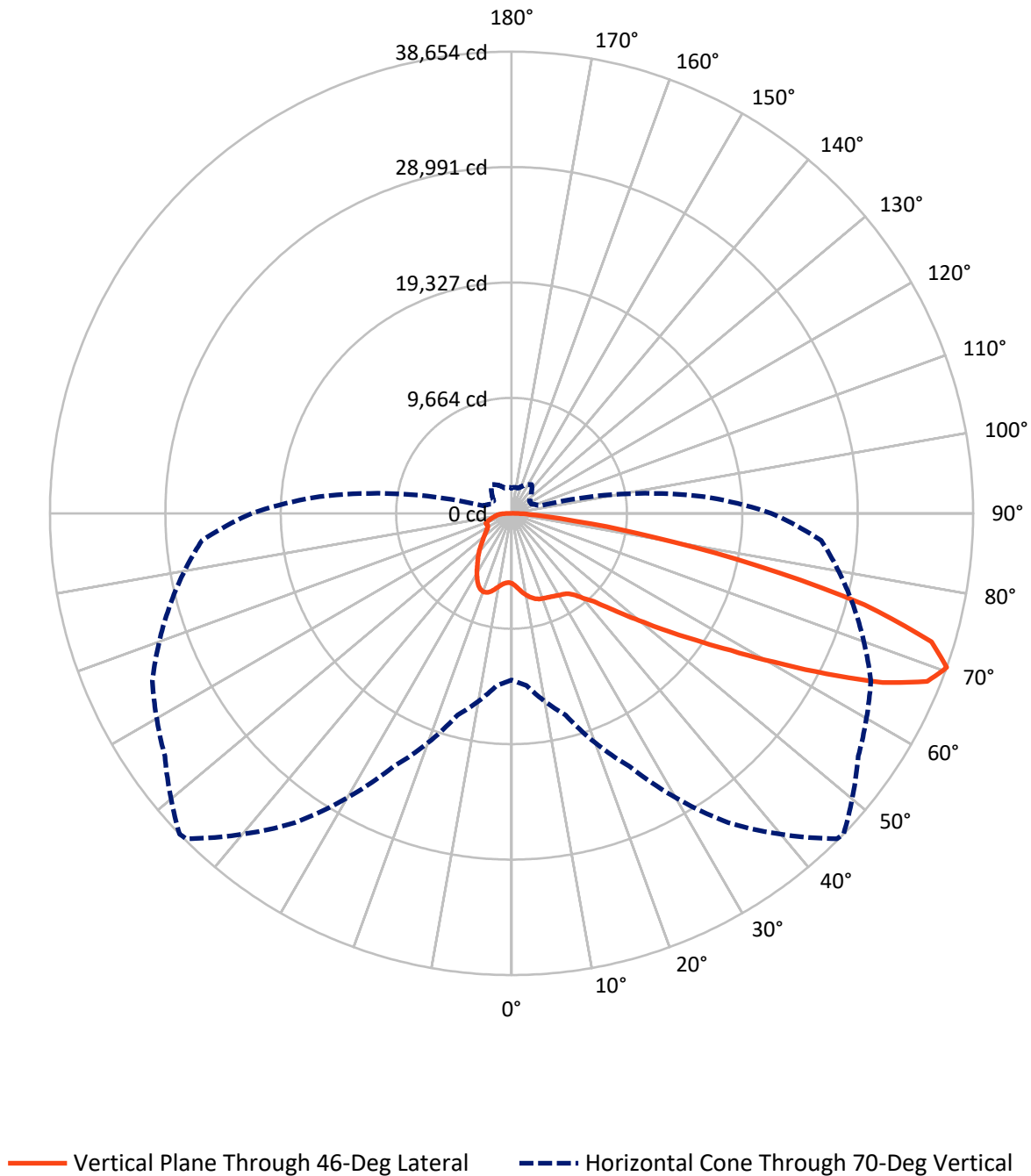
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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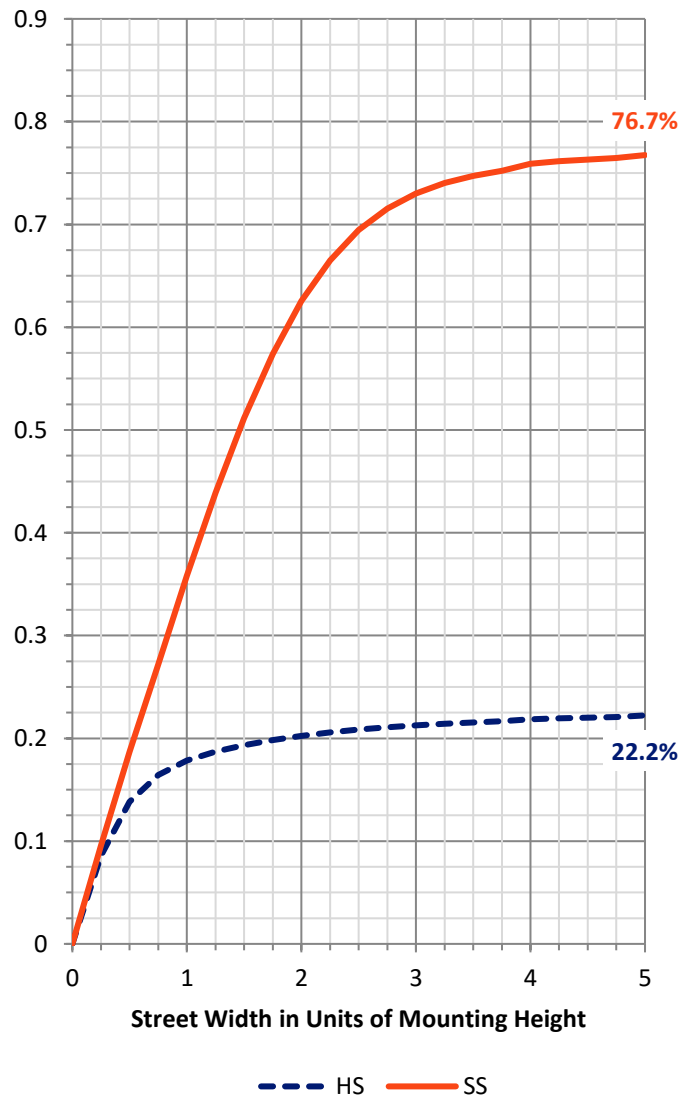
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13202.7	0.0	13202.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	44401.3	0.0	44401.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	57604.0	0.0	57604.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	598.3	1.0
10°-20°	1993.3	3.5
20°-30°	3323.5	5.8
30°-40°	4716.3	8.2
40°-50°	6937.4	12.0
50°-60°	11748.5	20.4
60°-70°	16676.8	29.0
70°-80°	10131.3	17.6
80°-90°	1478.5	2.6
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°	57604.0	100.0
0°-180°	57604.0	100.0

Coefficient of Utilization



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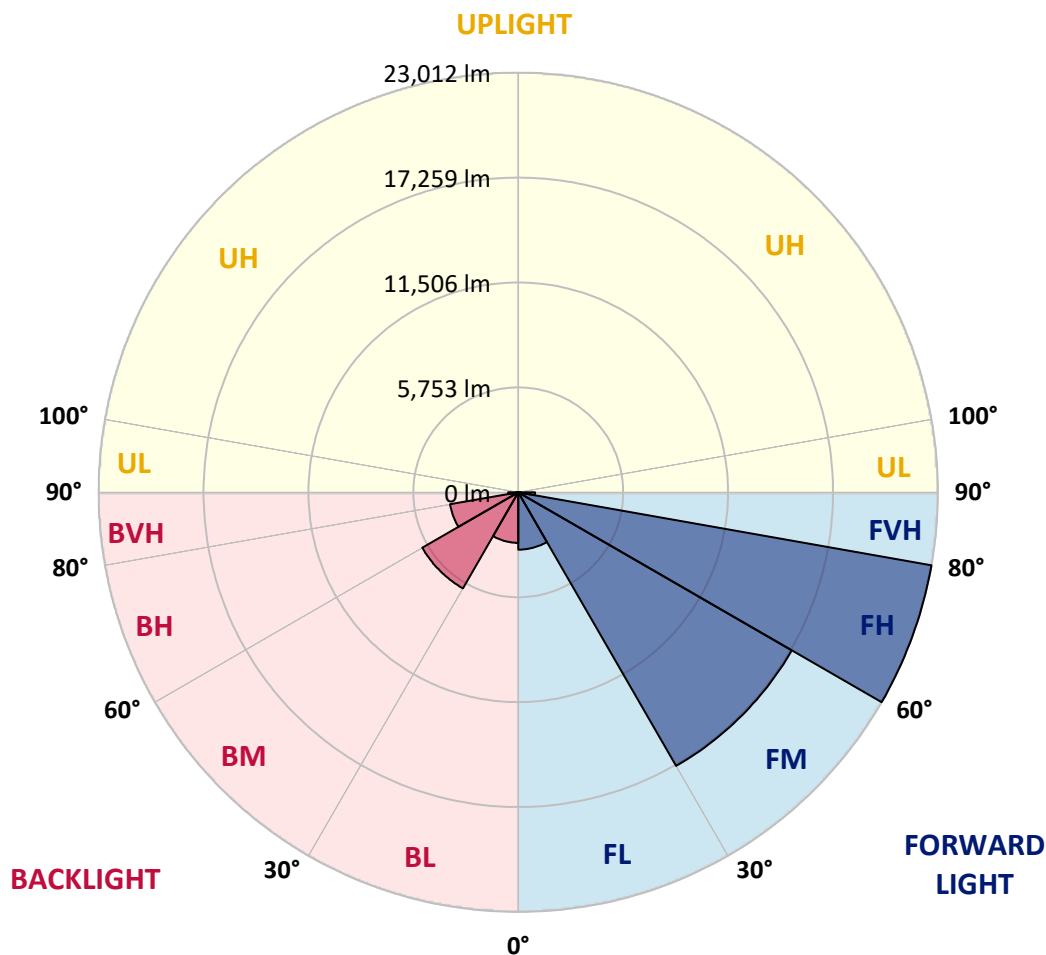
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3143.1	5.5			
FM	(30°-60°)	17324.7	30.1			
FH	(60°-80°)	23012.5	39.9			G5
FVH	(80°-90°)	921.0	1.6			G5
BL	(0°-30°)	2771.9	4.8	B4/5000		
BM	(30°-60°)	6077.5	10.6	B4/8500		
BH	(60°-80°)	3795.7	6.6	B4/5000		G4/5000
BVH	(80°-90°)	557.5	1.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	5868.7	5868.7	5868.7	5868.7	5868.7	5868.7	5868.7	5868.7	5868.7	5868.7	5868.7
2.5°	6162.5	6166.4	6174.3	6154.6	6099.4	6083.6	6077.7	6020.5	5983.1	5927.9	5880.5
5°	6655.3	6659.2	6647.4	6592.2	6470.0	6379.3	6371.4	6241.3	6123.0	5996.9	5902.2
7.5°	7169.8	7175.7	7138.3	7033.8	6862.3	6704.6	6694.7	6517.3	6337.9	6146.7	6004.7
10°	7625.2	7601.5	7540.4	7394.5	7191.5	6998.3	6990.4	6805.1	6598.1	6367.5	6178.2
12.5°	7928.8	7909.1	7830.2	7652.8	7430.0	7252.6	7236.8	7065.3	6864.3	6611.9	6385.2
15°	8096.3	8110.1	8003.7	7802.6	7585.8	7435.9	7422.1	7299.9	7120.5	6866.2	6606.0
17.5°	8118.0	8129.9	8027.4	7828.2	7650.8	7548.3	7542.4	7461.6	7331.5	7087.0	6815.0
20°	7991.9	7999.8	7915.0	7751.4	7635.1	7603.5	7601.5	7566.1	7469.5	7252.6	6988.4
22.5°	7808.5	7814.4	7753.3	7635.1	7595.6	7644.9	7658.7	7644.9	7575.9	7372.9	7124.5
25°	7763.2	7759.2	7696.2	7575.9	7609.4	7713.9	7731.6	7737.6	7690.3	7512.8	7298.0
27.5°	7982.0	7968.2	7848.0	7654.8	7676.5	7802.6	7826.3	7883.4	7853.9	7698.1	7495.1
30°	8614.8	8591.2	8344.7	7954.4	7848.0	7913.0	7942.6	8033.3	8039.2	7909.1	7757.3
32.5°	9683.3	9653.7	9212.1	8514.3	8137.7	8025.4	8053.0	8189.0	8261.9	8161.4	7997.8
35°	11033.7	11000.2	10420.6	9466.4	8622.7	8240.3	8260.0	8368.4	8514.3	8372.3	8155.5
37.5°	12441.2	12360.4	11802.5	10586.2	9393.5	8699.6	8699.6	8713.4	8782.4	8486.7	8340.8
40°	13840.9	13760.0	13255.4	11903.0	10391.0	9423.1	9377.7	9072.2	9017.0	8762.7	8713.4
42.5°	15142.0	15118.3	14820.6	13391.4	11562.0	10134.7	10071.6	9553.2	9565.0	9407.3	9409.3
45°	16525.9	16525.9	16283.4	14893.6	12926.2	11278.1	11215.0	10452.1	10570.4	10497.5	10672.9
47.5°	17655.4	17690.9	17657.4	16458.8	14513.1	12731.0	12616.7	11698.0	12029.2	12279.6	12790.1
50°	18808.7	18863.9	18869.8	18175.9	16431.2	14457.9	14327.8	13352.0	14091.2	14808.8	15812.2
52.5°	20482.4	20606.6	20111.8	19889.0	18781.1	16508.1	16380.0	15479.1	16713.1	17720.5	19449.4
55°	22033.8	21925.4	21572.5	21710.5	21296.5	18842.2	18745.6	17955.1	19634.7	20943.7	23189.0
57.5°	22873.6	22865.7	23220.6	23812.0	24009.1	21720.4	21639.6	20870.7	22928.8	23912.5	26700.0
60°	23859.3	23873.1	24752.3	26094.8	26907.0	25304.3	25268.8	24685.3	26128.3	26684.2	29454.0
62.5°	23997.3	24245.7	25759.7	28070.1	29619.6	29491.5	29570.3	28121.4	28990.7	28896.1	31510.1
65°	22410.3	22737.6	25477.8	28667.4	32316.4	34070.9	34143.8	31577.1	31247.9	30786.6	32245.4
67.5°	19157.6	19642.6	22619.3	27368.3	33205.5	37455.7	37558.2	34256.2	33120.7	31427.3	30475.2
70°	13941.4	14479.6	17476.1	23374.3	31620.5	38538.0	38654.3	35441.0	33191.7	29603.8	26016.0
72.5°	8421.6	8843.5	11313.6	17207.9	26688.2	36566.6	36773.6	33938.8	30303.6	25075.6	19210.8
75°	3698.3	3974.2	5470.5	9915.9	19106.4	30254.4	30512.6	29049.9	24622.2	18223.2	11355.0
77.5°	1575.1	1654.0	2243.4	4307.4	10801.0	20673.6	21028.4	21225.6	16705.3	9915.9	4798.3
80°	981.7	1013.3	1269.6	1949.7	5054.6	11611.3	11993.7	12488.5	8295.5	3645.0	1675.7
82.5°	597.3	632.8	843.7	1178.9	2631.8	5263.5	5446.9	5795.8	3219.2	1575.1	867.4
85°	358.8	384.4	516.5	745.2	1498.2	2069.9	2068.0	2286.8	1516.0	1013.3	457.4
87.5°	171.5	191.2	276.0	386.4	755.0	776.7	727.4	824.0	920.6	664.3	230.6
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°	5868.7	5868.7	5868.7	5868.7	5868.7	5868.7	5868.7	5868.7	5868.7	5868.7	5868.7
2.5°	5864.8	5856.9	5831.3	5811.6	5807.6	5795.8	5785.9	5791.8	5799.7	5801.7	5801.7
5°	5862.8	5841.1	5807.6	5793.8	5811.6	5835.2	5864.8	5904.2	5927.9	5945.6	5957.4
7.5°	5957.4	5916.0	5878.6	5870.7	5906.2	5969.3	6036.3	6119.1	6176.3	6215.7	6223.6
10°	6115.1	6063.9	6026.4	6034.3	6097.4	6188.1	6282.7	6389.2	6475.9	6529.1	6533.1
12.5°	6296.5	6247.2	6211.7	6245.2	6349.7	6460.1	6558.7	6651.3	6730.2	6783.4	6783.4
15°	6505.5	6470.0	6428.6	6505.5	6647.4	6746.0	6787.4	6832.7	6876.1	6915.5	6907.6
17.5°	6706.5	6673.0	6651.3	6742.0	6889.9	6935.2	6907.6	6874.1	6874.1	6895.8	6899.7
20°	6880.0	6850.5	6864.3	6953.0	7029.8	6982.5	6880.0	6773.6	6730.2	6742.0	6753.9
22.5°	7031.8	7018.0	7059.4	7100.8	7045.6	6880.0	6690.8	6546.9	6493.6	6489.7	6493.6
25°	7209.2	7207.3	7258.5	7183.6	6939.2	6633.6	6379.3	6239.3	6209.8	6233.4	6272.8
27.5°	7430.0	7451.7	7477.3	7203.3	6722.3	6261.0	6002.8	5906.2	5935.7	5992.9	6030.4
30°	7711.9	7771.1	7715.9	7154.0	6410.8	5835.2	5588.8	5561.2	5642.0	5722.8	5762.3
32.5°	7986.0	8078.6	7944.6	7025.9	6008.7	5383.8	5192.5	5184.7	5283.2	5362.1	5417.3
35°	8206.7	8390.1	8116.1	6771.6	5543.4	4967.8	4827.8	4774.6	4810.1	4902.8	4965.8
37.5°	8494.6	8800.1	8234.3	6383.2	5038.8	4624.8	4461.2	4338.9	4307.4	4344.9	4376.4
40°	9020.9	9425.0	8289.5	5841.1	4545.9	4281.8	4116.2	3936.8	3812.6	3721.9	3723.9
42.5°	9880.4	10239.2	8254.1	5182.7	4090.6	3946.7	3759.4	3552.4	3351.3	3146.3	3130.5
45°	11276.1	11449.6	8147.6	4484.8	3690.4	3595.7	3420.3	3213.3	2945.2	2712.6	2690.9
47.5°	13509.7	13125.3	7982.0	3875.7	3337.5	3298.1	3136.4	2897.9	2614.0	2426.7	2411.0
50°	16555.4	15544.1	7901.2	3390.7	3026.0	3037.9	2905.8	2653.4	2385.3	2247.3	2231.6
52.5°	20198.5	18361.2	8056.9	3016.2	2775.7	2817.1	2718.5	2481.9	2257.2	2148.8	2133.0
55°	23977.6	21278.8	8224.5	2744.1	2539.1	2619.9	2586.4	2391.3	2188.2	2087.7	2073.9
57.5°	27212.6	23457.1	7889.4	2523.3	2328.2	2454.3	2483.9	2334.1	2152.7	2062.0	2046.3
60°	29249.0	24334.4	7010.1	2316.3	2160.6	2322.3	2424.8	2318.3	2166.5	2158.6	2146.8
62.5°	30214.9	24257.5	5691.3	2152.7	2056.1	2265.1	2468.1	2407.0	2324.2	2395.2	2401.1
65°	29781.2	23098.4	4238.4	2044.3	1981.2	2286.8	2598.2	2574.6	2369.6	2440.5	2450.4
67.5°	26926.7	20332.5	3138.4	1949.7	1898.4	2347.9	2834.8	2629.8	2280.9	2332.1	2300.6
70°	21763.7	16119.8	2420.8	1843.2	1813.6	2340.0	2941.3	2596.3	2184.3	2196.1	2111.3
72.5°	15007.9	10992.3	1969.4	1744.6	1691.4	2133.0	2866.3	2513.5	2103.4	2012.8	1900.4
75°	8161.4	5900.3	1673.7	1642.1	1476.5	1872.8	2728.4	2454.3	2030.5	1910.2	1847.2
77.5°	3211.3	2448.4	1452.9	1502.2	1291.2	1654.0	2574.6	2342.0	1930.0	1772.2	1740.7
80°	1311.0	1249.8	1204.5	1299.1	1109.9	1447.0	2389.3	2209.9	1809.7	1644.1	1581.0
82.5°	743.2	776.7	936.4	1025.1	900.9	1332.6	2300.6	2103.4	1665.8	1472.6	1397.7
85°	380.5	455.4	652.5	735.3	662.4	1133.5	2119.2	1841.2	1336.6	1127.6	1133.5
87.5°	183.3	254.3	412.0	461.3	429.8	820.1	1583.0	1334.6	1040.9	824.0	798.4
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)