

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: P193127

Luminaire Tested: **GAN-AF-09-LED-U-T2-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-T2-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55405.4 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
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: 28.75 FT



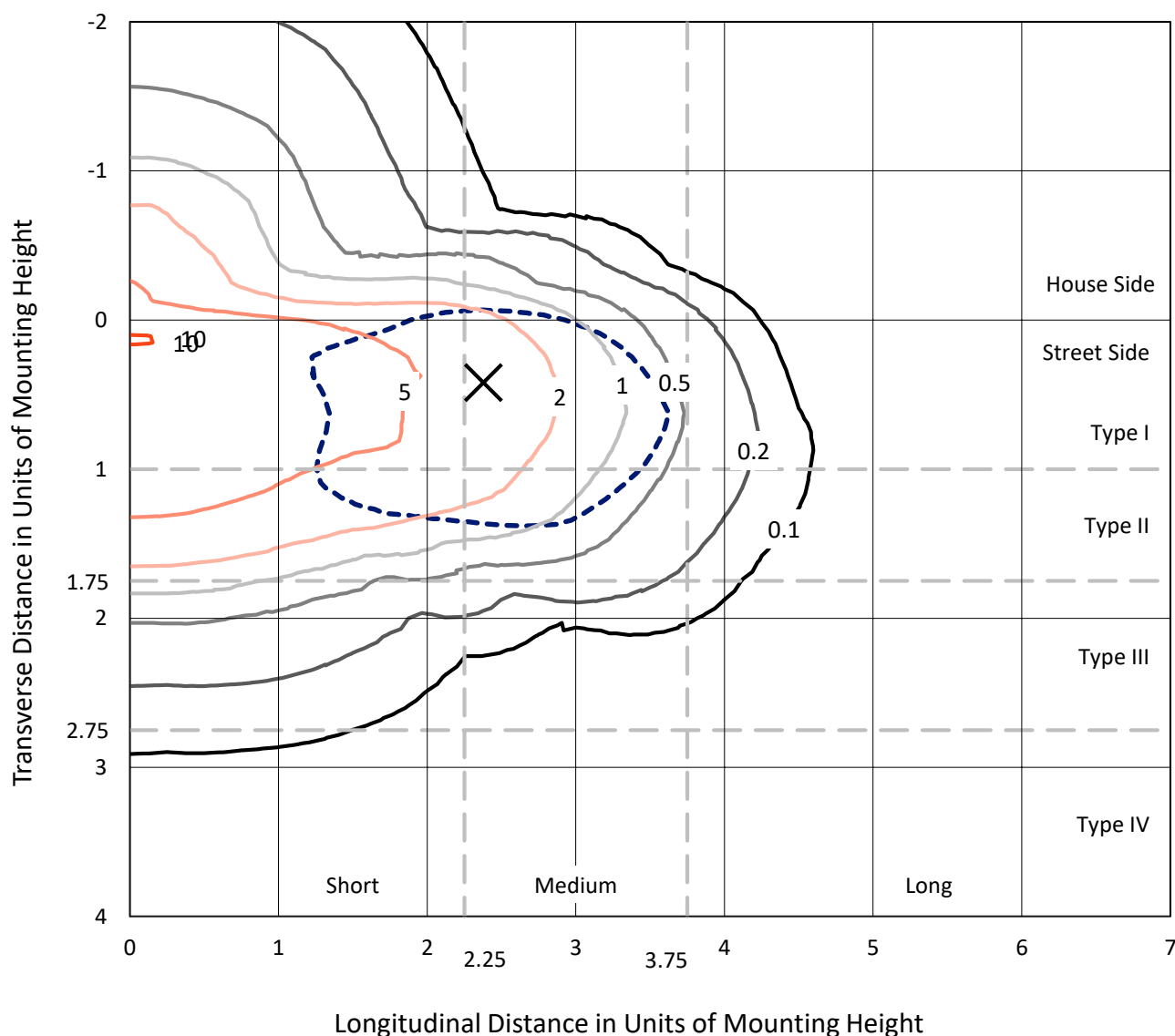
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

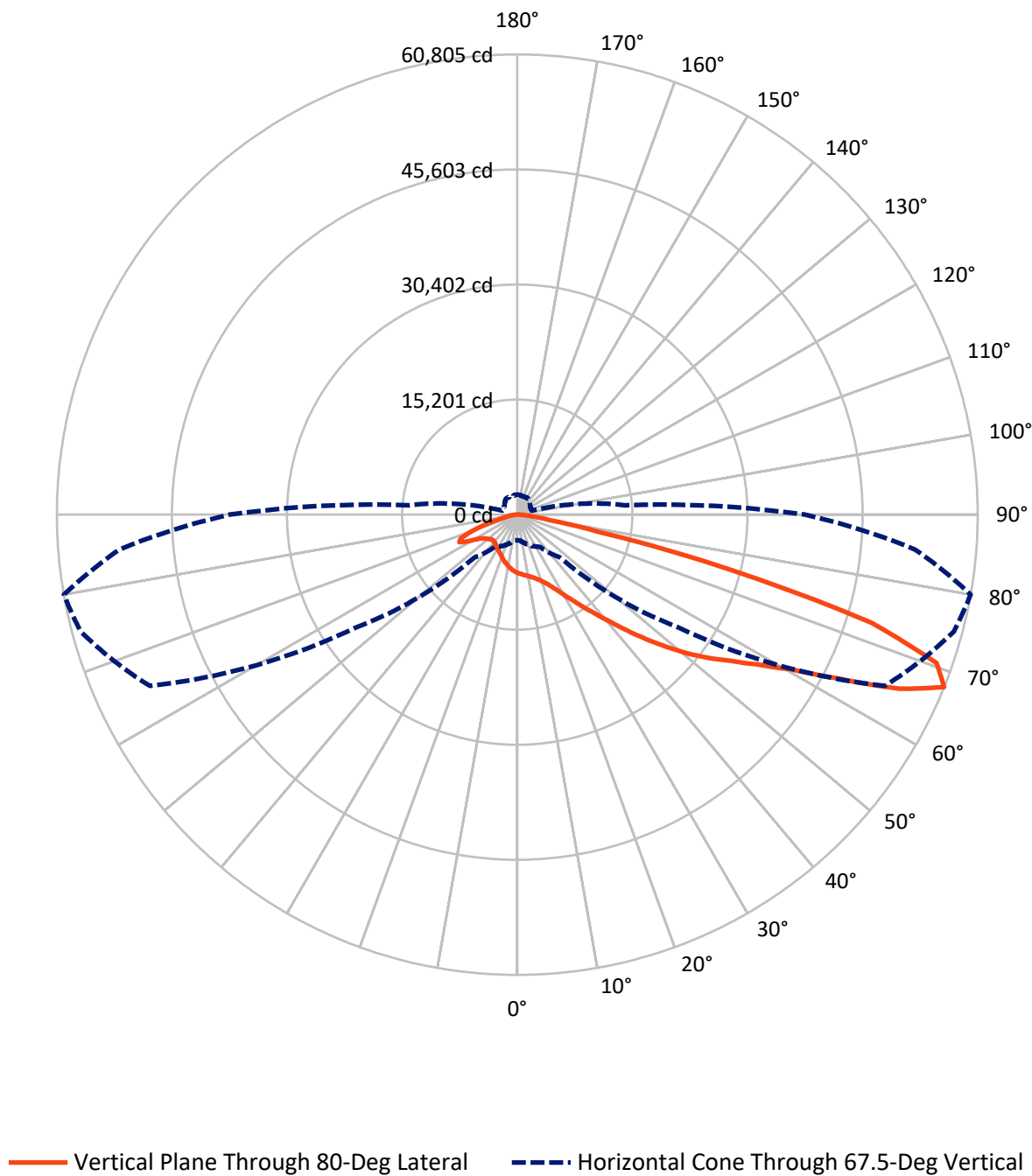


Based on 30 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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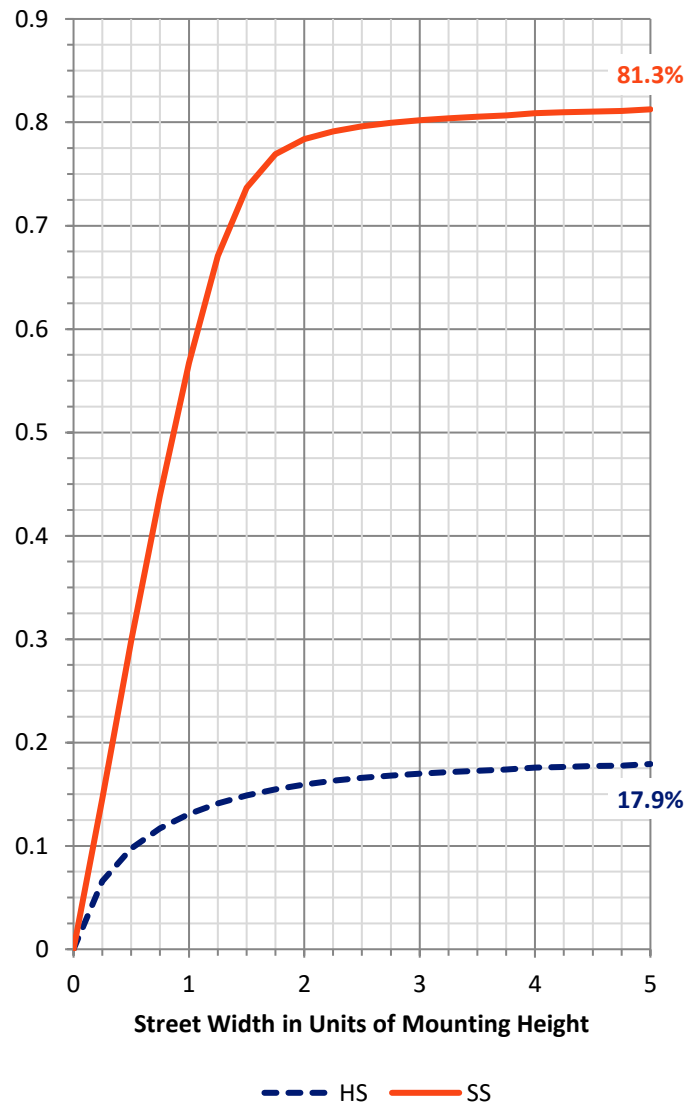
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10203.6	0.0	10203.6
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	45201.8	0.0	45201.8
	% Fixture	81.6	0.0	81.6
Total	Lumens	55405.4	0.0	55405.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	710.1	1.3
10°-20°	2045.5	3.7
20°-30°	3385.7	6.1
30°-40°	5538.1	10.0
40°-50°	8941.8	16.1
50°-60°	12909.3	23.3
60°-70°	14246.2	25.7
70°-80°	6566.6	11.9
80°-90°	1062.1	1.9
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°	55405.4	100.0
0°-180°	55405.4	100.0

Coefficient of Utilization



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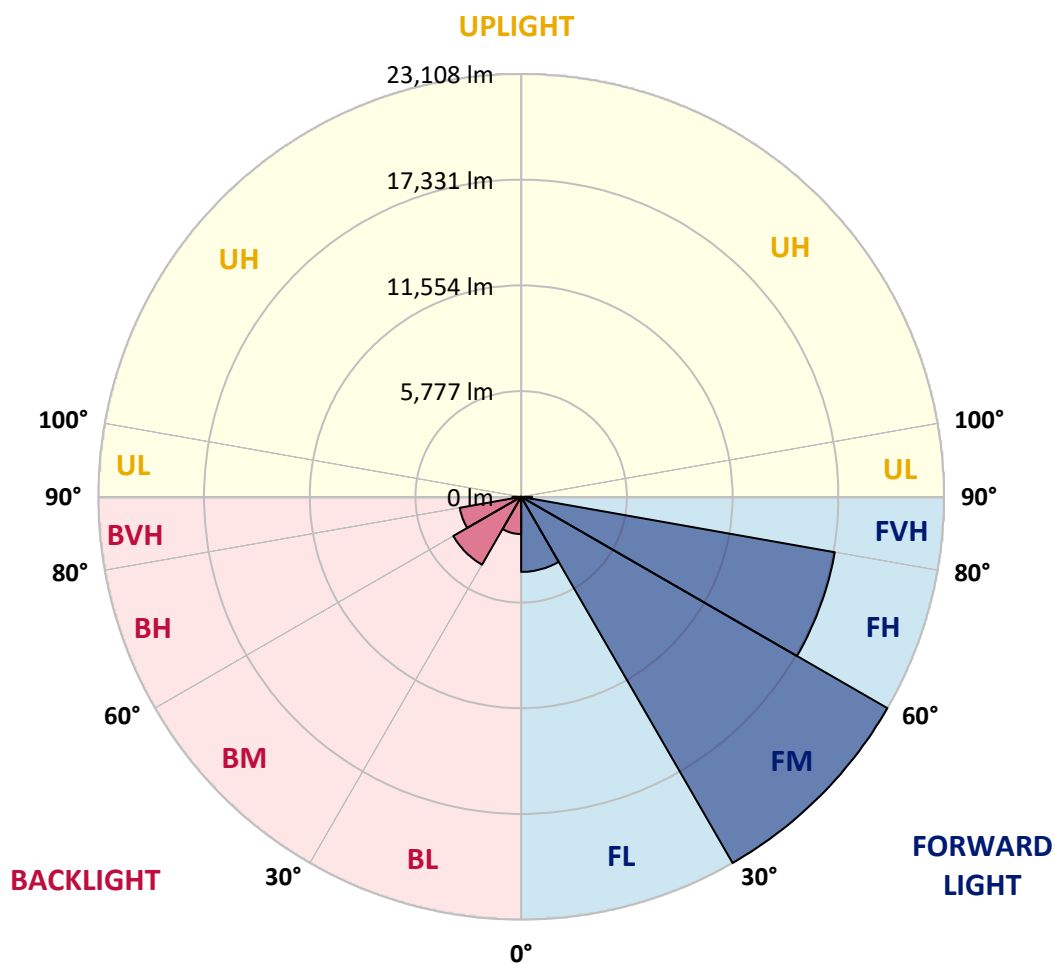
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4105.4	7.4			
FM	(30°-60°)	23108.2	41.7			
FH	(60°-80°)	17404.3	31.4			G5
FVH	(80°-90°)	583.9	1.1			G4/750
BL	(0°-30°)	2035.8	3.7	B3/2500		
BM	(30°-60°)	4281.1	7.7	B3/5000		
BH	(60°-80°)	3408.6	6.2	B4/5000		G4/5000
BVH	(80°-90°)	478.2	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	7697.5	7697.5	7697.5	7697.5	7697.5	7697.5	7697.5	7697.5	7697.5	7697.5	7697.5
2.5°	8420.3	8371.1	8379.3	8365.7	8324.8	8253.9	8177.5	8038.4	7893.8	7817.4	7757.4
5°	9124.0	9110.4	9091.3	9047.6	8944.0	8796.7	8613.9	8368.3	8103.9	7964.7	7831.0
7.5°	9650.5	9642.2	9617.6	9590.4	9489.5	9312.1	9036.8	8687.5	8302.9	8112.1	7904.7
10°	9694.0	9707.6	9726.8	9800.4	9814.1	9718.6	9437.7	9014.9	8510.2	8264.8	8000.2
12.5°	9323.1	9353.1	9426.8	9615.0	9814.1	9931.3	9786.8	9358.6	8753.0	8455.7	8120.1
15°	8832.1	8848.5	8938.5	9197.7	9554.9	9917.7	10054.1	9737.7	9066.7	8701.2	8300.2
17.5°	8622.0	8630.3	8693.0	8864.9	9197.7	9715.9	10204.2	10149.5	9451.3	9006.7	8521.1
20°	8515.6	8534.8	8624.8	8793.9	9003.9	9456.7	10225.9	10594.3	9909.5	9388.5	8799.4
22.5°	8818.6	8810.3	8843.0	8927.6	9104.9	9377.6	10209.6	11052.4	10493.3	9879.6	9162.2
25°	9524.9	9554.9	9497.7	9402.2	9459.4	9650.5	10296.8	11548.8	11224.3	10509.6	9636.7
27.5°	10531.4	10501.5	10416.9	10193.3	10075.9	10157.8	10586.0	12083.4	12132.5	11338.8	10264.2
30°	11535.3	11510.7	11428.8	11156.0	10916.1	10847.8	11147.9	12697.2	13215.5	12334.4	11033.3
32.5°	12577.2	12549.8	12473.5	12200.8	11911.7	11753.4	11947.1	13406.3	14491.9	13523.7	11938.9
35°	13861.9	13810.1	13649.1	13270.0	12986.3	12863.5	12953.6	14298.3	15965.0	14931.2	13038.1
37.5°	15070.2	15149.4	14985.7	14462.0	14093.8	14050.0	14151.0	15386.7	17552.4	16505.0	14301.1
40°	16284.0	16297.6	16150.3	15722.2	15343.1	15272.0	15525.7	16706.9	19426.3	18387.0	15836.7
42.5°	17538.8	17566.0	17317.8	16922.3	16644.1	16657.7	16946.8	18253.4	21575.7	20604.6	17604.2
45°	19025.4	19066.3	18793.4	18275.2	18021.5	18531.7	18411.6	19988.2	23932.3	23124.9	19633.6
47.5°	20580.1	20642.8	20435.6	19949.9	19633.6	20334.6	19876.3	21911.2	26469.0	25828.2	21862.1
50°	21428.4	21518.4	21720.2	21684.8	21616.6	21499.3	21510.2	23973.2	29085.0	28643.0	24153.3
52.5°	20972.9	20970.1	21706.6	22601.3	23556.0	23626.9	23501.4	26147.3	31528.8	31395.2	26310.8
55°	18889.0	19030.8	20146.5	21878.4	24486.1	26114.5	26485.4	28637.5	33929.2	34084.6	28501.2
57.5°	15419.4	15536.6	17042.4	19456.4	23231.4	27592.9	30729.7	32257.1	36613.3	37338.7	31417.1
60°	10457.8	10599.7	12195.3	15094.8	19854.5	26769.1	34769.3	38716.2	39826.3	41476.6	35508.5
62.5°	6145.4	6273.5	7574.7	9522.2	13979.1	22942.3	36542.3	47905.6	44929.8	47720.2	41749.4
65°	4230.6	4317.8	4950.6	5927.2	8033.0	15452.1	34343.8	54250.2	52782.7	55455.7	48985.9
67.5°	3404.1	3393.1	3895.1	4560.6	5171.6	7967.4	25970.0	53532.7	59689.1	60804.6	52741.7
70°	2804.0	2793.1	3134.1	3685.1	4132.4	4486.9	14145.6	45175.3	58281.6	58734.4	49283.1
72.5°	2345.8	2356.7	2574.9	2984.1	3390.5	3379.6	6216.3	31779.8	45849.0	48980.4	39286.3
75°	1980.4	1985.7	2130.3	2419.4	2752.2	2722.2	3371.4	17216.8	26651.8	28831.3	21777.5
77.5°	1685.7	1691.2	1783.8	1944.9	2182.1	2171.2	2460.3	7438.3	11117.9	10981.5	7449.2
80°	1503.0	1503.0	1546.6	1576.6	1707.5	1658.4	1824.8	3573.3	4699.8	4339.7	2973.2
82.5°	1178.4	1183.9	1451.1	1440.1	1344.8	1282.0	1282.0	2105.8	2490.3	2302.1	1740.3
85°	662.7	660.2	935.6	1129.2	1183.9	902.8	894.7	1178.4	1355.7	1194.8	842.8
87.5°	283.6	289.1	433.6	501.9	671.0	561.9	553.7	608.2	690.1	597.3	390.0
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°	7697.5	7697.5	7697.5	7697.5	7697.5	7697.5	7697.5	7697.5	7697.5	7697.5	7697.5
2.5°	7700.1	7629.2	7473.8	7280.1	7105.5	6991.0	6887.2	6737.3	6745.4	6641.9	6565.5
5°	7694.7	7547.4	7187.4	6759.1	6347.2	6049.9	5826.2	5624.4	5575.3	5479.8	5422.5
7.5°	7700.1	7460.1	6854.6	6170.0	5659.8	5283.4	5092.5	4986.1	4961.6	4928.9	4931.6
10°	7719.2	7381.0	6489.0	5618.9	5084.4	4836.2	4789.7	4822.4	4860.6	4871.6	4874.3
12.5°	7762.9	7310.1	6088.2	5128.0	4724.3	4647.9	4727.0	4838.9	4912.6	4948.0	4945.2
15°	7861.1	7255.6	5703.6	4743.4	4525.2	4566.1	4713.3	4871.6	4978.0	5027.0	5029.8
17.5°	7967.4	7176.4	5308.1	4448.8	4377.9	4481.5	4664.3	4849.8	4980.7	5035.2	5046.1
20°	8106.6	7078.3	4893.4	4227.9	4238.7	4356.0	4527.9	4713.3	4857.8	4904.3	4926.2
22.5°	8289.3	6971.9	4530.7	4047.8	4080.5	4170.5	4304.3	4465.2	4590.6	4612.5	4631.5
25°	8534.8	6857.3	4241.5	3884.1	3897.9	3949.6	4039.7	4135.1	4222.5	4197.8	4217.0
27.5°	8864.9	6759.1	4025.9	3734.2	3709.6	3720.5	3766.9	3796.9	3843.3	3775.0	3783.2
30°	9252.2	6652.7	3859.6	3603.3	3535.1	3516.0	3526.9	3543.2	3578.7	3485.9	3472.3
32.5°	9702.2	6524.5	3704.1	3488.6	3393.1	3355.1	3360.5	3404.1	3540.4	3483.1	3453.2
35°	10225.9	6379.9	3540.4	3363.2	3297.8	3243.2	3237.7	3374.2	3780.5	3745.1	3717.8
37.5°	10839.6	6235.4	3376.8	3221.4	3226.8	3166.8	3147.6	3303.1	3827.0	3687.8	3668.7
40°	11619.7	6159.1	3237.7	3071.3	3139.6	3131.4	3093.1	3172.3	3521.4	3267.7	3234.9
42.5°	12585.3	6170.0	3134.1	2910.4	3035.9	3123.1	3063.2	3066.0	3191.4	3000.4	2970.4
45°	13777.4	6298.1	3060.5	2782.2	2918.6	3115.0	3052.2	3008.6	3019.5	2918.6	2902.3
47.5°	15168.5	6562.7	3008.6	2675.9	2806.8	3084.9	3049.5	2992.2	2967.7	2913.2	2899.5
50°	16715.0	6947.4	2970.4	2574.9	2705.8	3035.9	3052.2	2975.9	2948.6	2926.7	2918.6
52.5°	18234.3	7386.5	2913.2	2487.7	2626.7	2975.9	3060.5	2959.5	2929.5	2913.2	2904.9
55°	19928.3	7934.7	2825.9	2414.0	2561.2	2899.5	3060.5	2934.9	2902.3	2904.9	2902.3
57.5°	22216.7	8821.1	2722.2	2351.3	2482.2	2806.8	3008.6	2907.7	2866.8	2869.4	2872.2
60°	25792.7	10384.1	2596.8	2288.6	2383.9	2697.6	2937.7	2847.7	2806.8	2817.7	2820.4
62.5°	31051.5	12678.1	2433.1	2195.8	2280.3	2580.3	2839.4	2771.3	2730.4	2757.7	2757.7
65°	36517.7	14702.0	2231.2	2078.4	2171.2	2452.1	2716.7	2675.9	2634.9	2697.6	2694.9
67.5°	37988.0	14249.3	2029.4	1950.3	2062.0	2310.3	2569.4	2547.6	2525.7	2634.9	2629.5
70°	33746.5	11439.8	1843.9	1819.3	1942.1	2157.6	2411.3	2411.3	2397.5	2479.4	2460.3
72.5°	25710.8	8112.1	1666.6	1680.2	1805.7	1991.1	2239.4	2258.5	2236.6	2277.6	2261.2
75°	13763.7	4642.4	1489.3	1527.5	1636.6	1822.1	2048.5	2067.5	2054.0	2051.3	2059.3
77.5°	4574.2	2269.5	1303.8	1363.8	1459.2	1647.5	1849.3	1879.4	1846.6	1841.1	1838.4
80°	2037.5	1426.6	1099.2	1178.4	1262.9	1448.3	1639.3	1663.9	1628.4	1677.4	1614.8
82.5°	1309.3	938.3	881.0	968.4	1050.1	1249.3	1429.3	1434.8	1402.1	1628.4	1388.3
85°	635.6	581.0	662.7	741.9	812.9	981.9	1183.9	1186.5	1104.7	1006.5	971.1
87.5°	316.5	338.2	441.9	512.8	548.3	673.7	861.9	845.5	810.1	736.5	679.1
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)