

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: P321034

Luminaire Tested: **GAN-SA0A-760-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-760-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47321 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 323
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

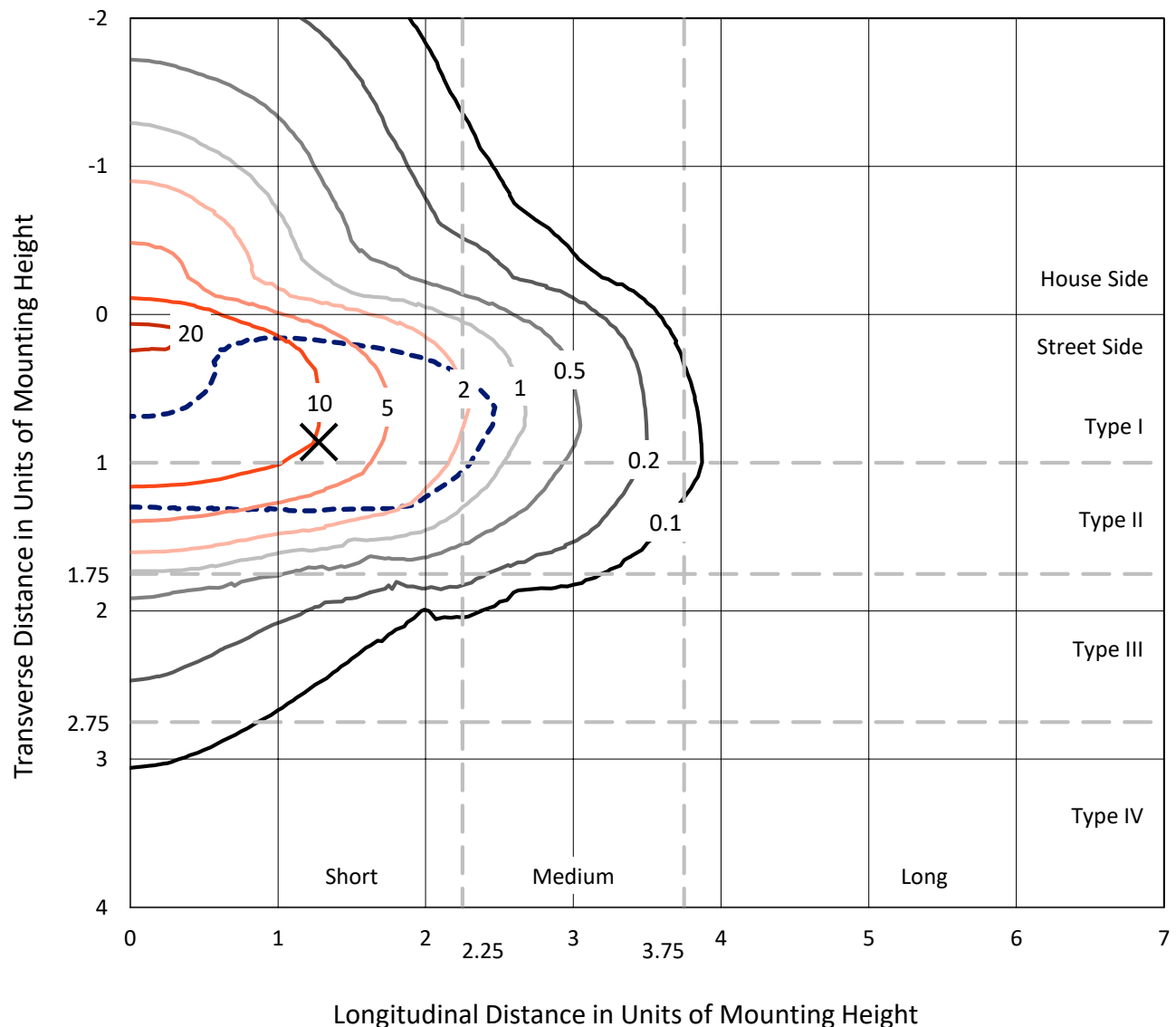


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Iso-Footcandle Lines of Horizontal Illumination

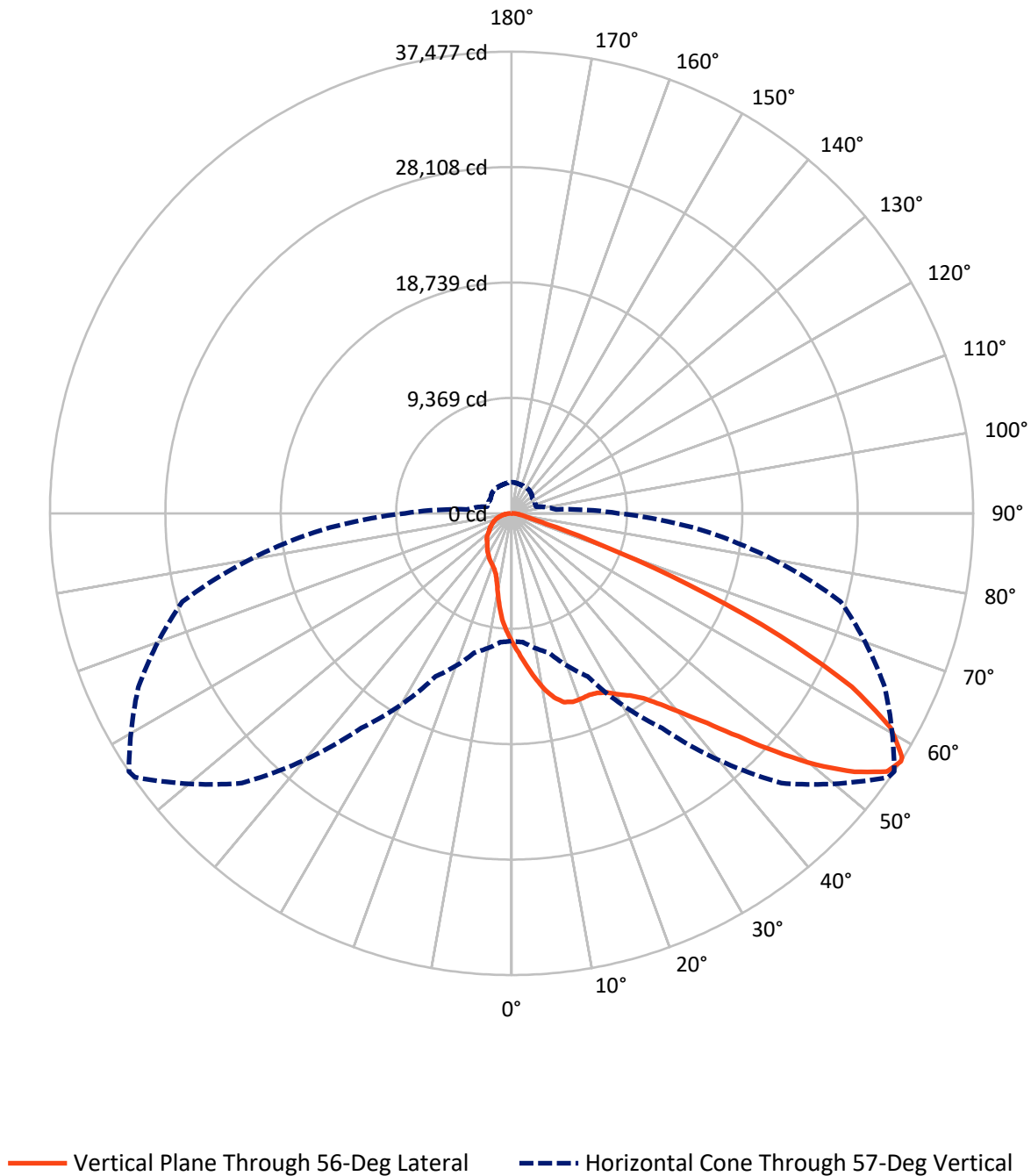
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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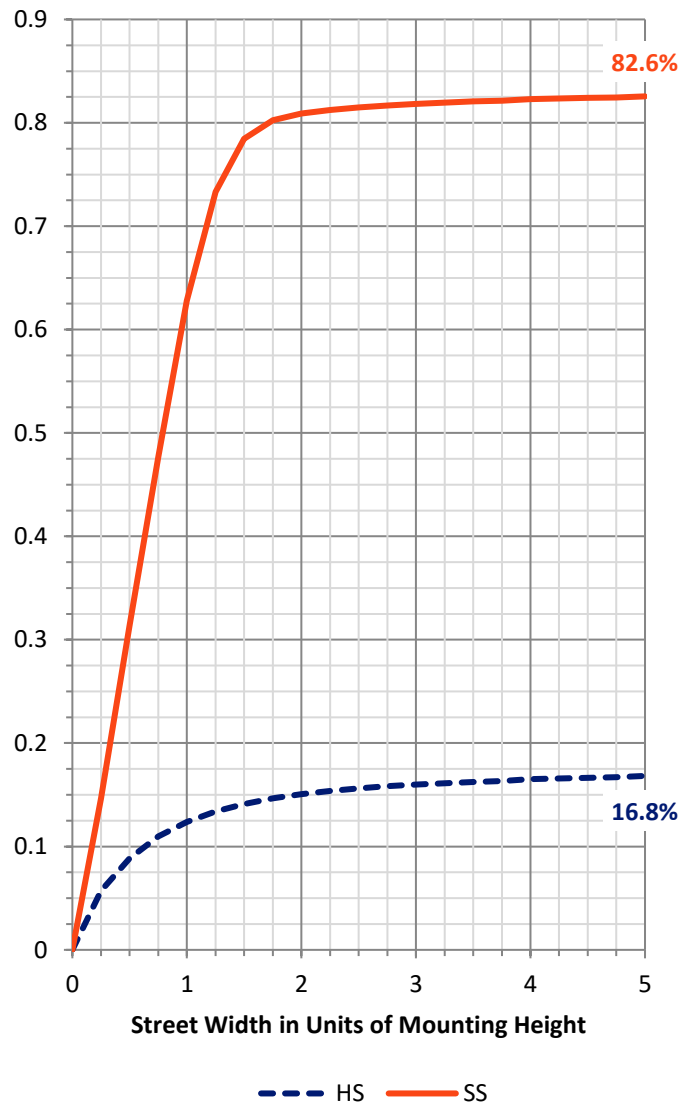
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8157.1	0.0	8157.1
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	39163.9	0.0	39163.9
	% Fixture	82.8	0.0	82.8
Total	Lumens	47321.0	0.0	47321.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1002.6	2.1
10°-20°	2834.6	6.0
20°-30°	4617.1	9.8
30°-40°	6902.0	14.6
40°-50°	10468.9	22.1
50°-60°	11733.8	24.8
60°-70°	6930.4	14.6
70°-80°	2270.7	4.8
80°-90°	561.0	1.2
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°	47321.0	100.0
0°-180°	47321.0	100.0

Coefficient of Utilization



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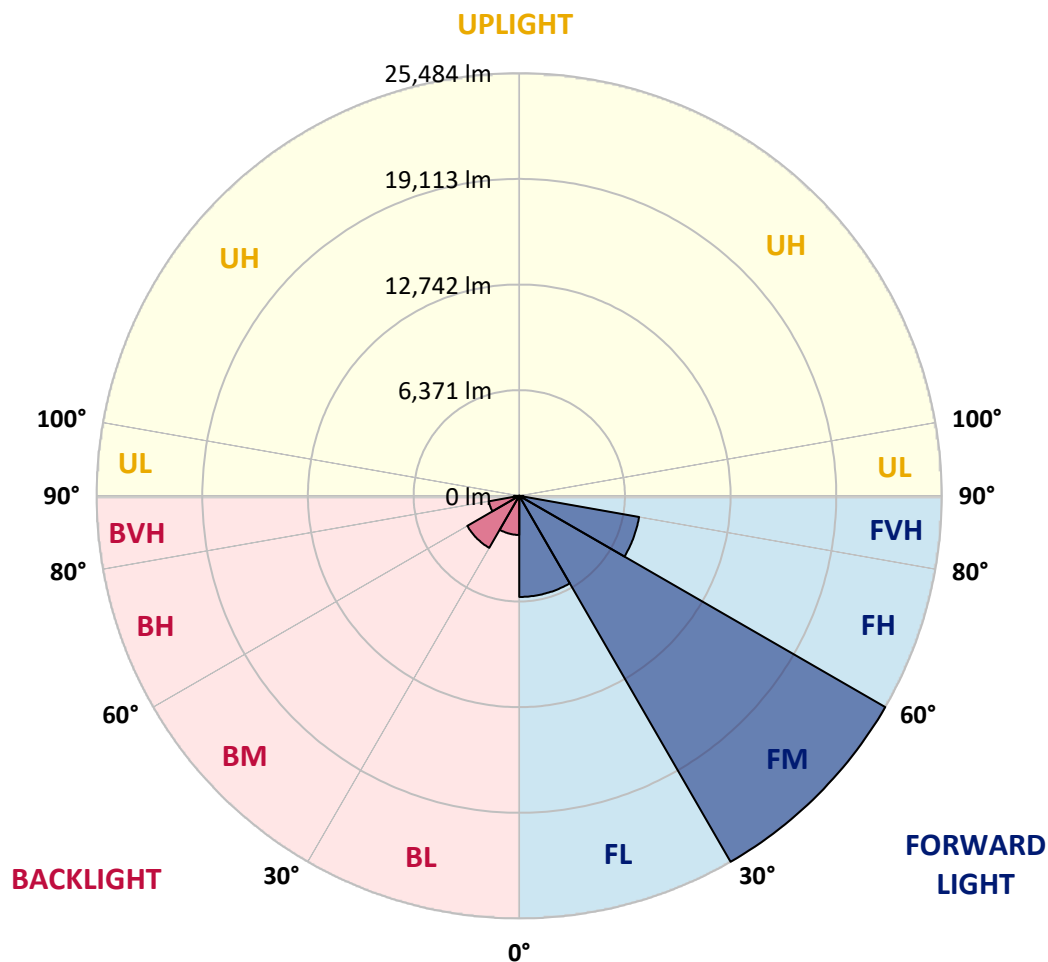
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6095.7	12.9			
FM	(30°-60°)	25483.9	53.9			
FH	(60°-80°)	7337.3	15.5			G3/7500
FVH	(80°-90°)	247.0	0.5			G3/500
BL	(0°-30°)	2358.7	5.0	B3/2500		
BM	(30°-60°)	3620.7	7.7	B3/5000		
BH	(60°-80°)	1863.8	3.9	B3/2500		G3/2500
BVH	(80°-90°)	314.0	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	10495.8	10495.8	10495.8	10495.8	10495.8	10495.8	10495.8	10495.8	10495.8	10495.8	10495.8
2.5°	12052.2	12162.8	12114.0	11944.8	11814.7	11631.0	11426.1	11364.3	11148.0	10905.7	10614.6
5°	13959.8	13904.5	13824.8	13561.3	13283.2	12959.6	12445.7	12364.4	11883.0	11335.0	10756.0
7.5°	15046.1	15041.2	14994.1	14839.6	14585.9	14163.0	13543.4	13447.5	12720.6	11839.1	10941.4
10°	14888.4	14877.0	14955.0	15116.0	15192.5	15104.6	14582.6	14486.7	13593.9	12396.9	11156.1
12.5°	13992.3	13998.8	14124.0	14462.3	14922.5	15475.4	15390.9	15343.7	14499.7	13027.9	11416.3
15°	13294.6	13309.3	13408.5	13702.8	14246.0	15249.4	15882.0	15898.3	15376.2	13724.0	11720.4
17.5°	12988.9	13019.8	13065.3	13271.9	13769.5	14798.9	15999.1	16086.9	16143.8	14446.0	12013.1
20°	13086.5	13115.7	13128.7	13260.5	13668.7	14525.7	15917.8	16075.5	16732.5	15125.8	12305.9
22.5°	13523.9	13541.8	13549.9	13584.1	13901.2	14603.8	15864.1	16030.0	17158.6	15735.6	12527.0
25°	14249.2	14236.2	14184.2	14140.3	14353.3	14912.7	15987.7	16145.4	17505.0	16288.6	12671.8
27.5°	15117.7	15101.4	15000.6	14880.2	15002.2	15394.1	16343.8	16469.1	17815.6	16805.7	12744.9
30°	16160.1	16117.8	15927.5	15784.4	15831.6	16116.2	16930.9	17044.8	18295.4	17392.8	12816.5
32.5°	17365.1	17319.6	17044.8	16807.3	16807.3	17044.8	17535.9	17630.2	18701.9	18056.3	12932.0
35°	18874.3	18817.4	18459.6	18061.2	17949.0	18069.3	18360.4	18427.1	19433.7	18892.2	13141.8
37.5°	20653.4	20577.0	20113.5	19580.1	19334.5	19328.0	19537.8	19674.4	20603.0	19989.9	13497.9
40°	22437.4	22383.8	21978.8	21559.2	21077.9	20923.4	21247.0	21289.3	22131.7	21352.7	13953.3
42.5°	23816.5	23806.7	23731.9	23787.2	23294.5	22982.2	23235.9	23270.1	23998.6	22827.7	14437.9
45°	24545.0	24561.3	24924.0	25727.3	25909.5	25681.8	25807.0	25816.8	26132.3	24315.7	14881.8
47.5°	23961.2	24045.8	24963.0	26760.0	28251.3	29007.5	28799.3	28919.7	28200.9	25594.0	15229.9
50°	21686.1	21790.2	23351.4	26299.8	29344.1	32225.8	32116.9	32089.2	29869.4	26530.7	15418.5
52.5°	18867.8	18949.1	20237.1	23907.6	28542.4	34005.0	35005.1	34862.0	31352.5	27231.6	15454.3
55°	14576.1	14703.0	15937.3	19132.9	25299.6	33325.2	37129.0	37000.5	32704.0	27599.2	15412.0
57°	10362.5	10495.8	11722.0	14602.1	21282.8	30972.0	37340.4	37477.0	33434.1	27660.9	15459.2
57.5°	9246.9	9383.5	10598.3	13395.5	20030.6	30121.5	37158.3	37385.9	33565.9	27651.2	15485.2
60°	4656.0	4708.0	5482.1	7477.5	12662.0	24351.5	34782.3	35369.4	33684.6	27173.1	15597.4
62.5°	2894.7	2857.3	2832.9	3444.4	6160.2	16148.7	29879.2	31009.4	31412.7	26015.2	15325.8
65°	2545.1	2475.2	2206.8	2158.0	2720.7	7843.4	22500.8	23907.6	26558.3	24190.5	14678.6
67.5°	2390.6	2322.3	2019.8	1837.7	1839.3	3109.4	13969.5	15553.5	20689.2	21105.5	13151.5
70°	2231.2	2169.4	1886.5	1671.8	1566.1	1722.2	6427.0	7628.8	13486.5	16589.4	10991.8
72.5°	2026.3	1984.0	1715.7	1494.5	1382.3	1289.6	2460.5	2906.1	7807.6	11141.5	7633.6
75°	1811.6	1772.6	1543.3	1331.9	1195.3	1014.8	1385.6	1492.9	3966.4	5700.0	3758.3
77.5°	1575.8	1553.1	1372.6	1177.4	1068.4	840.8	980.6	1032.7	1701.1	2444.3	1884.8
80°	1253.8	1297.8	1200.2	1048.9	948.1	673.3	694.4	728.6	990.4	1193.7	1070.1
82.5°	816.4	892.8	940.0	852.2	780.6	530.2	499.3	513.9	645.6	728.6	465.1
85°	339.9	382.2	618.0	557.8	518.8	387.0	335.0	341.5	400.1	414.7	190.3
87.5°	151.2	161.0	271.6	255.3	219.5	133.4	143.1	156.1	213.0	201.7	73.2
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°	10495.8	10495.8	10495.8	10495.8	10495.8	10495.8	10495.8	10495.8	10495.8	10495.8	10495.8
2.5°	10505.6	10369.0	10134.8	9876.2	9664.8	9495.7	9324.9	9207.8	9071.2	8998.1	8960.7
5°	10513.7	10245.4	9752.6	9246.9	8794.8	8381.7	7988.2	7685.7	7402.7	7249.8	7207.6
7.5°	10547.9	10144.6	9347.7	8515.1	7711.7	6978.3	6412.3	6057.8	5802.5	5688.6	5656.1
10°	10575.5	10025.9	8846.8	7614.1	6521.3	5778.1	5339.0	5140.6	5052.8	5038.1	5023.5
12.5°	10640.6	9903.9	8319.9	6674.1	5595.9	5082.0	4929.2	4916.2	4940.6	4976.3	4976.3
15°	10743.0	9783.5	7718.2	5867.5	5007.2	4826.7	4857.6	4929.2	4995.9	5051.1	5059.3
17.5°	10817.8	9635.6	7071.0	5221.9	4693.4	4742.2	4852.7	4953.6	5021.9	5075.5	5080.4
20°	10871.5	9406.3	6379.8	4729.1	4512.9	4664.1	4802.3	4891.8	4938.9	4992.6	5000.7
22.5°	10843.9	9098.9	5766.7	4376.2	4366.5	4550.3	4682.0	4789.3	4753.5	4701.5	4735.7
25°	10710.5	8676.1	5135.7	4112.8	4212.0	4397.4	4560.0	4488.5	4368.1	4345.3	4358.4
27.5°	10473.1	8136.1	4551.9	3868.9	4033.1	4255.9	4246.1	4174.6	4132.3	4103.0	4120.9
30°	10217.8	7550.7	4041.2	3655.8	3834.7	4018.5	3981.1	3979.4	3937.2	3890.0	3912.8
32.5°	9965.7	6962.0	3636.3	3480.2	3685.1	3709.5	3790.8	3815.2	3732.3	3633.1	3626.5
35°	9746.1	6405.8	3328.9	3320.8	3504.6	3507.8	3626.5	3592.4	3385.9	3283.4	3283.4
37.5°	9581.9	5851.3	3094.8	3177.7	3267.1	3351.7	3411.9	3270.4	3236.2	3179.3	3177.7
40°	9510.3	5363.4	2948.4	3068.7	3099.6	3207.0	3052.5	3107.8	3124.0	3094.8	3094.8
42.5°	9435.5	4938.9	2821.6	2985.8	2980.9	2966.3	2888.2	2959.8	3024.8	3026.5	3021.6
45°	9360.7	4573.0	2709.3	2808.5	2876.8	2719.1	2733.7	2810.2	2901.2	2933.8	2933.8
47.5°	9277.8	4283.6	2606.9	2621.5	2727.2	2621.5	2610.1	2668.7	2776.0	2828.1	2839.4
50°	9095.6	4023.4	2489.8	2457.3	2486.5	2522.3	2532.1	2559.7	2678.4	2761.4	2780.9
52.5°	8843.6	3790.8	2340.2	2306.0	2306.0	2441.0	2486.5	2494.7	2595.5	2694.7	2714.2
55°	8633.8	3642.8	2185.7	2179.2	2172.7	2354.8	2432.9	2445.9	2515.8	2593.9	2603.6
57°	8648.4	3631.4	2067.0	2073.5	2071.8	2267.0	2382.5	2410.1	2445.9	2512.6	2523.9
57.5°	8656.5	3639.6	2040.9	2044.2	2042.6	2242.6	2367.8	2398.7	2426.4	2496.3	2507.7
60°	8778.5	3660.7	1935.2	1899.5	1907.6	2112.5	2284.9	2323.9	2341.8	2434.5	2449.1
62.5°	8598.0	3566.4	1850.7	1764.5	1764.5	1975.9	2169.4	2231.2	2258.9	2384.1	2408.5
65°	8074.3	3301.3	1751.5	1611.6	1627.9	1839.3	2031.2	2132.0	2174.3	2330.4	2356.4
67.5°	7266.1	2993.9	1645.8	1475.0	1491.3	1696.2	1888.1	1997.0	2063.7	2271.9	2293.0
70°	6213.9	2618.3	1502.7	1330.3	1349.8	1540.1	1719.0	1842.5	1941.7	2216.6	2223.1
72.5°	4581.2	2146.7	1302.6	1170.9	1192.0	1357.9	1548.2	1691.3	1824.7	2078.4	2075.1
75°	2724.0	1678.3	1081.5	1009.9	1024.5	1179.0	1393.7	1567.7	1767.7	2024.7	2055.6
77.5°	1652.3	1263.6	881.4	845.7	863.5	1021.3	1283.1	1468.5	1743.3	1909.2	1899.5
80°	998.5	902.6	704.2	681.4	699.3	873.3	1187.2	1393.7	1523.8	1631.1	1631.1
82.5°	522.0	551.3	517.1	499.3	523.7	709.0	1079.8	1216.4	1346.5	1156.3	1079.8
85°	213.0	287.8	313.9	312.2	326.9	491.1	931.8	1040.8	868.4	824.5	844.0
87.5°	71.6	122.0	152.9	131.7	138.2	309.0	645.6	502.5	596.8	416.3	395.2
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)