

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: P321132

Luminaire Tested: **GAN-SA8C-830-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321132
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-SA8C-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46213 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 445
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



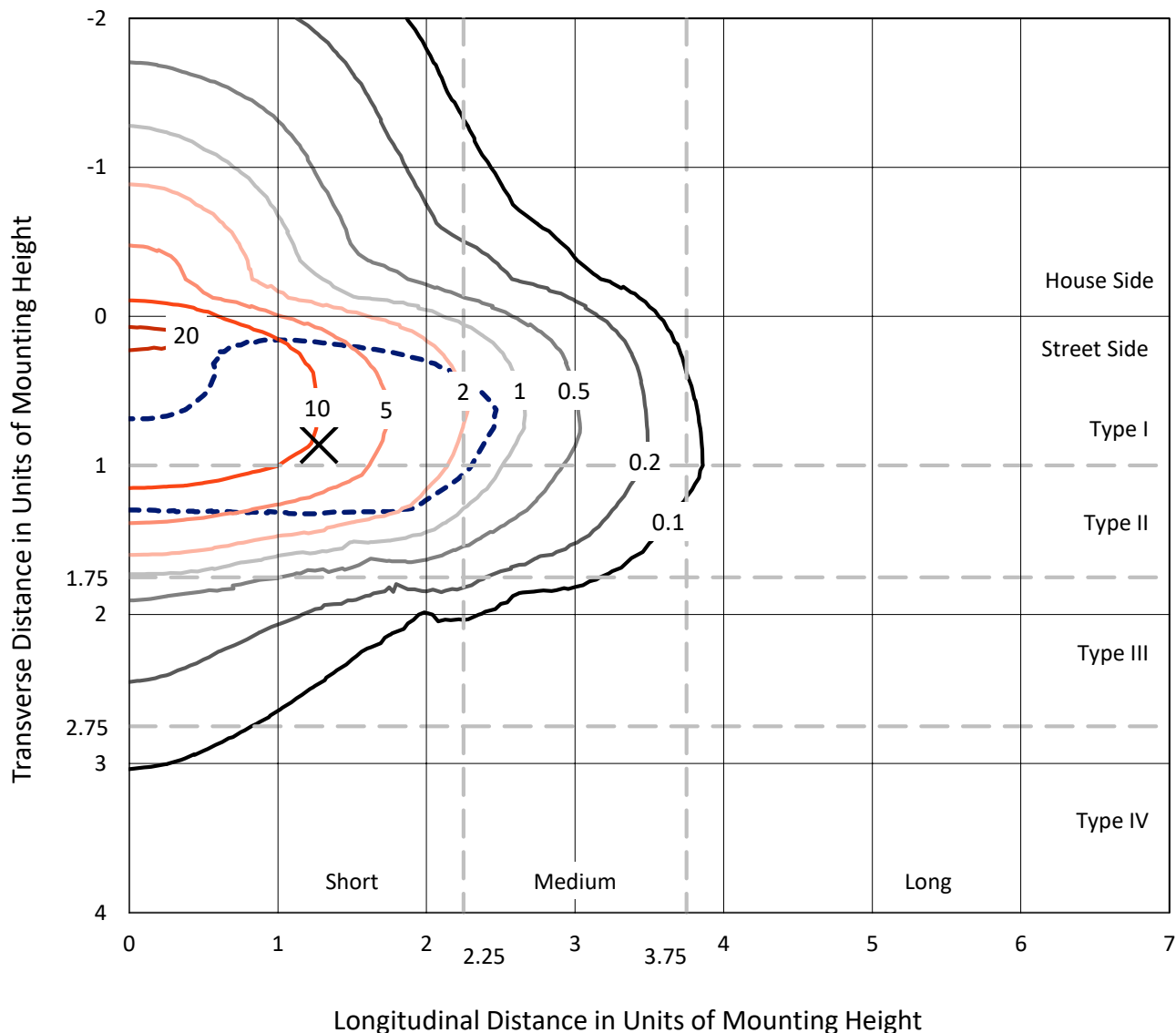
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

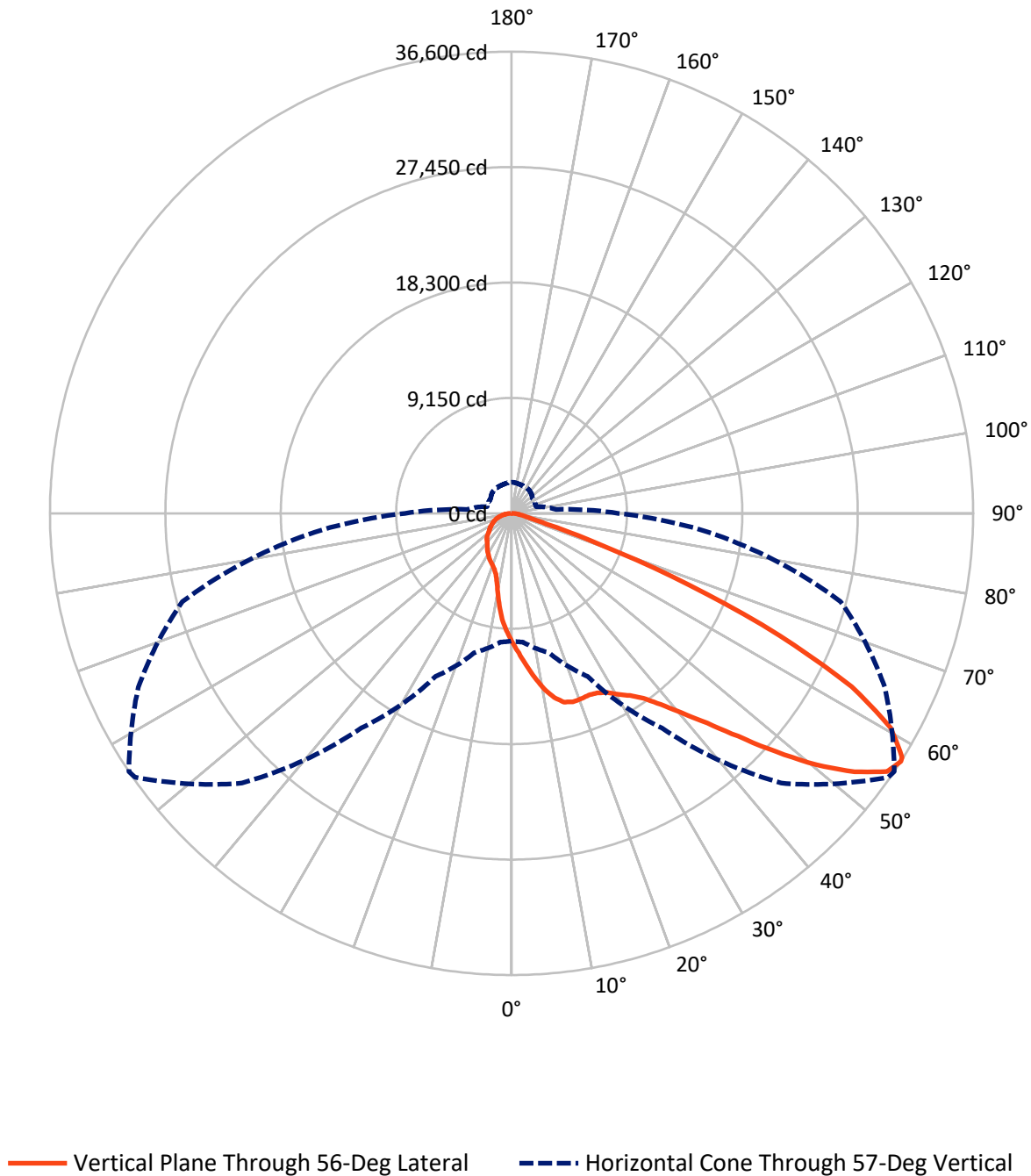


Based on 25 foot mounting height. Maximum calculated value = 22.7 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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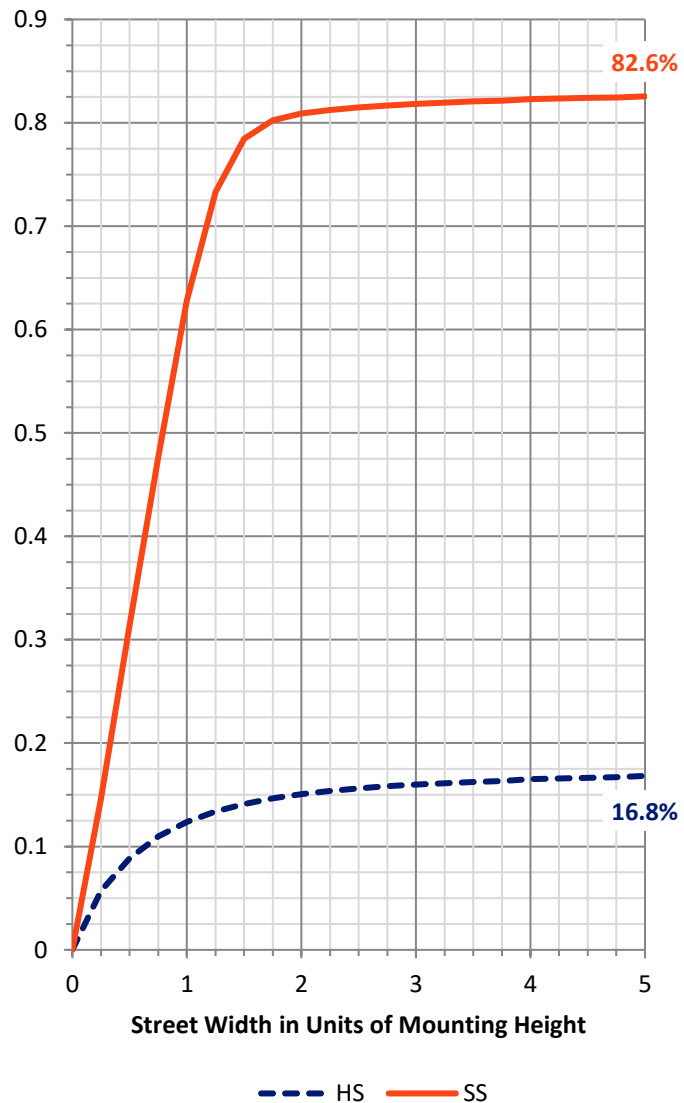
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7966.1	0.0	7966.1
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	38246.9	0.0	38246.9
	% Fixture	82.8	0.0	82.8
Total	Lumens	46213.0	0.0	46213.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	979.1	2.1
10°-20°	2768.3	6.0
20°-30°	4509.0	9.8
30°-40°	6740.4	14.6
40°-50°	10223.7	22.1
50°-60°	11459.0	24.8
60°-70°	6768.1	14.6
70°-80°	2217.5	4.8
80°-90°	547.9	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°	46213.0	100.0
0°-180°	46213.0	100.0

Coefficient of Utilization



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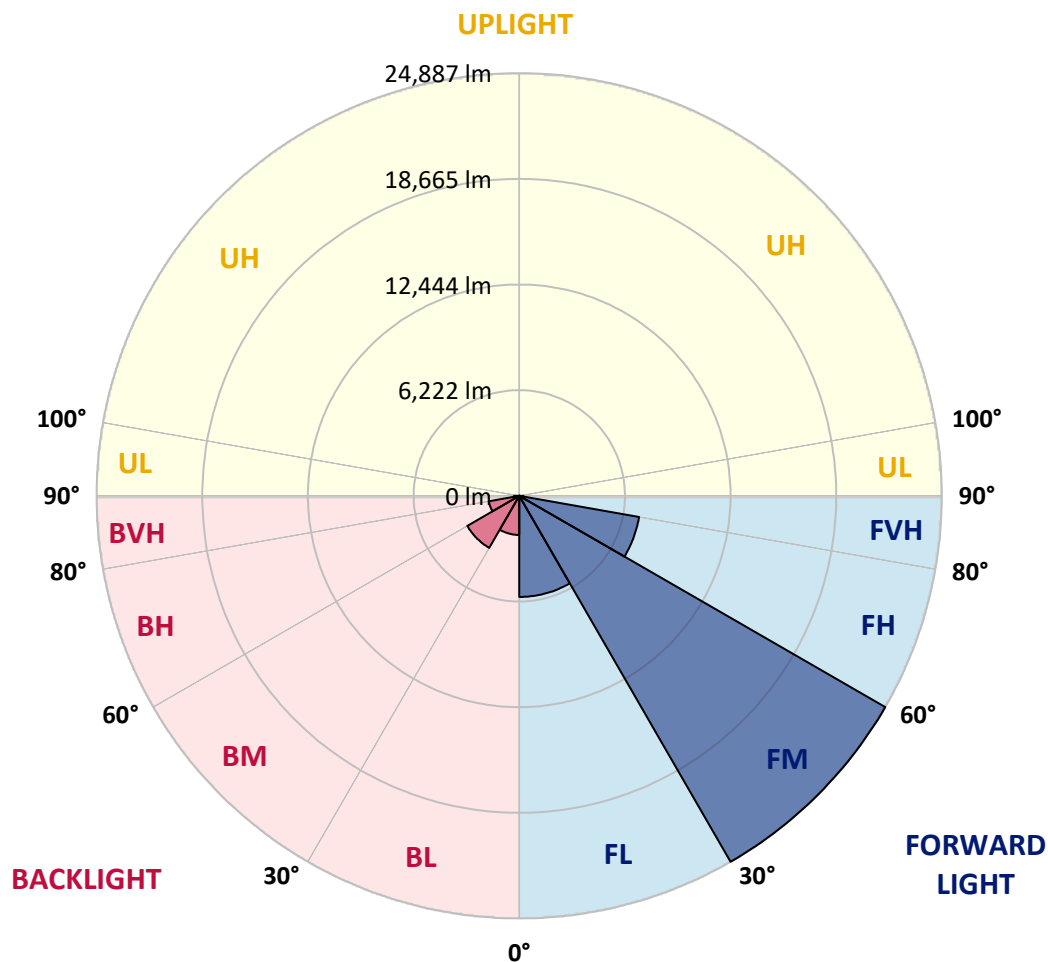
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5952.9	12.9			
FM	(30°-60°)	24887.2	53.9			
FH	(60°-80°)	7165.5	15.5			G3/7500
FVH	(80°-90°)	241.2	0.5			G3/500
BL	(0°-30°)	2303.4	5.0	B3/2500		
BM	(30°-60°)	3535.9	7.7	B3/5000		
BH	(60°-80°)	1820.2	3.9	B3/2500		G3/2500
BVH	(80°-90°)	306.6	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°	10250.1	10250.1	10250.1	10250.1	10250.1	10250.1	10250.1	10250.1	10250.1	10250.1	10250.1
2.5°	11770.0	11878.0	11830.3	11665.1	11538.1	11358.6	11158.5	11098.2	10886.9	10650.3	10366.0
5°	13632.9	13578.9	13501.1	13243.8	12972.2	12656.2	12154.3	12074.9	11604.8	11069.6	10504.2
7.5°	14693.8	14689.0	14643.0	14492.1	14244.3	13831.4	13226.3	13132.6	12422.7	11561.9	10685.2
10°	14539.7	14528.6	14604.9	14762.1	14836.7	14751.0	14241.2	14147.5	13275.6	12106.7	10894.9
12.5°	13664.7	13671.0	13793.3	14123.6	14573.1	15113.1	15030.5	14984.4	14160.2	12722.9	11149.0
15°	12983.3	12997.6	13094.5	13382.0	13912.4	14892.3	15510.1	15526.0	15016.2	13402.6	11446.0
17.5°	12684.8	12714.9	12759.4	12961.1	13447.1	14452.4	15624.5	15710.2	15765.8	14107.8	11731.9
20°	12780.0	12808.6	12821.3	12950.0	13348.6	14185.6	15545.1	15699.1	16340.7	14771.6	12017.7
22.5°	13207.3	13224.7	13232.7	13266.0	13575.7	14261.8	15492.7	15654.6	16756.8	15367.2	12233.7
25°	13915.6	13902.9	13852.1	13809.2	14017.2	14563.6	15613.4	15767.4	17095.1	15907.2	12375.1
27.5°	14763.7	14747.8	14649.3	14531.8	14650.9	15033.7	15961.2	16083.5	17398.5	16412.2	12446.5
30°	15781.7	15740.4	15554.6	15414.8	15460.9	15738.8	16534.5	16645.7	17867.0	16985.5	12516.4
32.5°	16958.5	16914.1	16645.7	16413.8	16413.8	16645.7	17125.3	17217.4	18264.0	17633.5	12629.2
35°	18432.4	18376.8	18027.4	17638.3	17528.7	17646.2	17930.5	17995.6	18978.7	18449.8	12834.0
37.5°	20169.8	20095.2	19642.6	19121.6	18881.8	18875.5	19080.3	19213.7	20120.6	19521.9	13181.9
40°	21912.1	21859.6	21464.2	21054.4	20584.3	20433.5	20749.5	20790.8	21613.5	20852.7	13626.5
42.5°	23258.8	23249.3	23176.2	23230.2	22749.0	22444.1	22691.9	22725.2	23436.7	22293.2	14099.8
45°	23970.3	23986.2	24340.4	25124.9	25302.8	25080.5	25202.8	25212.3	25520.4	23746.4	14533.4
47.5°	23400.2	23482.8	24378.5	26133.4	27589.8	28328.3	28125.0	28242.5	27540.6	24994.7	14873.3
50°	21178.3	21280.0	22804.6	25684.0	28657.0	31471.3	31364.9	31337.9	29170.0	25909.5	15057.5
52.5°	18426.0	18505.4	19763.3	23347.8	27874.1	33208.8	34185.5	34045.7	30618.4	26594.0	15092.4
55°	14234.8	14358.7	15564.1	18684.9	24707.2	32544.9	36259.6	36134.2	31938.2	26952.9	15051.1
57°	10119.9	10250.1	11447.6	14260.2	20784.5	30246.8	36466.1	36599.5	32651.3	27013.3	15097.2
57.5°	9030.4	9163.8	10350.1	13081.8	19561.6	29416.2	36288.2	36510.6	32779.9	27003.8	15122.6
60°	4546.9	4597.8	5353.7	7302.4	12365.5	23781.3	33967.9	34541.2	32895.9	26536.8	15232.2
62.5°	2827.0	2790.4	2766.6	3363.8	6016.0	15770.6	29179.6	30283.3	30677.2	25406.0	14967.0
65°	2485.5	2417.2	2155.2	2107.5	2657.0	7659.8	21974.0	23347.8	25936.5	23624.1	14334.9
67.5°	2334.6	2267.9	1972.5	1794.6	1796.2	3036.6	13642.4	15189.3	20204.8	20611.3	12843.6
70°	2179.0	2118.6	1842.3	1632.6	1529.4	1681.9	6276.5	7450.1	13170.7	16201.0	10734.5
72.5°	1978.9	1937.6	1675.5	1459.5	1349.9	1259.4	2402.9	2838.1	7624.8	10880.6	7454.9
75°	1769.2	1731.1	1507.2	1300.7	1167.3	991.0	1353.1	1457.9	3873.6	5566.6	3670.3
77.5°	1538.9	1516.7	1340.4	1149.8	1043.4	821.1	957.7	1008.5	1661.2	2387.0	1840.7
80°	1224.5	1267.4	1172.1	1024.4	925.9	657.5	678.2	711.5	967.2	1165.7	1045.0
82.5°	797.3	871.9	918.0	832.2	762.3	517.7	487.6	501.9	630.5	711.5	454.2
85°	331.9	373.2	603.5	544.7	506.6	378.0	327.2	333.5	390.7	405.0	185.8
87.5°	147.7	157.2	265.2	249.3	214.4	130.2	139.8	152.5	208.1	196.9	71.5
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°	10250.1	10250.1	10250.1	10250.1	10250.1	10250.1	10250.1	10250.1	10250.1	10250.1	10250.1
2.5°	10259.6	10126.2	9897.5	9645.0	9438.5	9273.4	9106.6	8992.3	8858.8	8787.4	8750.8
5°	10267.6	10005.5	9524.3	9030.4	8588.9	8185.5	7801.1	7505.7	7229.4	7080.1	7038.8
7.5°	10300.9	9907.0	9128.8	8315.7	7531.1	6814.9	6262.2	5916.0	5666.6	5555.4	5523.7
10°	10327.9	9791.1	8639.7	7435.8	6368.6	5642.8	5214.0	5020.2	4934.5	4920.2	4905.9
12.5°	10391.4	9672.0	8125.1	6517.9	5464.9	4963.0	4813.8	4801.1	4824.9	4859.8	4859.8
15°	10491.5	9554.5	7537.5	5730.1	4890.0	4713.7	4743.9	4813.8	4878.9	4932.9	4940.8
17.5°	10564.5	9409.9	6905.4	5099.6	4583.5	4631.1	4739.1	4837.6	4904.3	4956.7	4961.5
20°	10617.0	9186.0	6230.4	4618.4	4407.2	4554.9	4689.9	4777.2	4823.3	4875.7	4883.6
22.5°	10590.0	8885.8	5631.7	4273.8	4264.3	4443.7	4572.4	4677.2	4642.2	4591.4	4624.8
25°	10459.7	8472.9	5015.5	4016.5	4113.4	4294.4	4453.2	4383.4	4265.8	4243.6	4256.3
27.5°	10227.9	7945.6	4445.3	3778.3	3938.7	4156.3	4146.7	4076.8	4035.6	4007.0	4024.4
30°	9978.5	7373.9	3946.6	3570.2	3744.9	3924.4	3887.9	3886.3	3845.0	3798.9	3821.2
32.5°	9732.3	6799.0	3551.2	3398.7	3598.8	3622.6	3702.0	3725.9	3644.9	3548.0	3541.6
35°	9517.9	6255.8	3251.0	3243.1	3422.5	3425.7	3541.6	3508.3	3306.6	3206.5	3206.5
37.5°	9357.5	5714.3	3022.3	3103.3	3190.6	3273.2	3332.0	3193.8	3160.5	3104.9	3103.3
40°	9287.7	5237.8	2879.4	2996.9	3027.1	3131.9	2981.0	3035.0	3050.9	3022.3	3022.3
42.5°	9214.6	4823.3	2755.5	2915.9	2911.1	2896.8	2820.6	2890.5	2954.0	2955.6	2950.8
45°	9141.5	4465.9	2645.9	2742.8	2809.5	2655.4	2669.7	2744.4	2833.3	2865.1	2865.1
47.5°	9060.5	4183.3	2545.8	2560.1	2663.4	2560.1	2549.0	2606.2	2711.0	2761.8	2773.0
50°	8882.7	3929.1	2431.5	2399.7	2428.3	2463.3	2472.8	2499.8	2615.7	2696.7	2715.8
52.5°	8636.5	3702.0	2285.4	2252.0	2252.0	2383.9	2428.3	2436.3	2534.7	2631.6	2650.7
55°	8431.6	3557.5	2134.5	2128.2	2121.8	2299.7	2375.9	2388.6	2456.9	2533.1	2542.7
57°	8445.9	3546.4	2018.6	2024.9	2023.3	2213.9	2326.7	2353.7	2388.6	2453.7	2464.8
57.5°	8453.9	3554.3	1993.2	1996.3	1994.7	2190.1	2312.4	2342.6	2369.6	2437.8	2449.0
60°	8573.0	3575.0	1889.9	1855.0	1862.9	2063.0	2231.4	2269.5	2287.0	2377.5	2391.8
62.5°	8396.7	3482.9	1807.3	1723.2	1723.2	1929.6	2118.6	2179.0	2206.0	2328.3	2352.1
65°	7885.3	3224.0	1710.5	1573.9	1589.8	1796.2	1983.6	2082.1	2123.4	2275.9	2301.3
67.5°	7096.0	2923.8	1607.2	1440.5	1456.4	1656.5	1843.9	1950.3	2015.4	2218.7	2239.3
70°	6068.4	2557.0	1467.5	1299.1	1318.2	1504.0	1678.7	1799.4	1896.3	2164.7	2171.0
72.5°	4473.9	2096.4	1272.1	1143.5	1164.1	1326.1	1511.9	1651.7	1781.9	2029.7	2026.5
75°	2660.2	1639.0	1056.1	986.3	1000.6	1151.4	1361.1	1531.0	1726.3	1977.3	2007.5
77.5°	1613.6	1234.0	860.8	825.9	843.3	997.4	1253.1	1434.1	1702.5	1864.5	1855.0
80°	975.1	881.4	687.7	665.4	682.9	852.9	1159.4	1361.1	1488.1	1592.9	1592.9
82.5°	509.8	538.4	505.0	487.6	511.4	692.4	1054.5	1188.0	1315.0	1129.2	1054.5
85°	208.1	281.1	306.5	304.9	319.2	479.6	910.0	1016.4	848.1	805.2	824.3
87.5°	69.9	119.1	149.3	128.6	135.0	301.8	630.5	490.7	582.9	406.6	385.9
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)