

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: P317614

Luminaire Tested: **GAN-SA0C-830-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57959 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 558
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

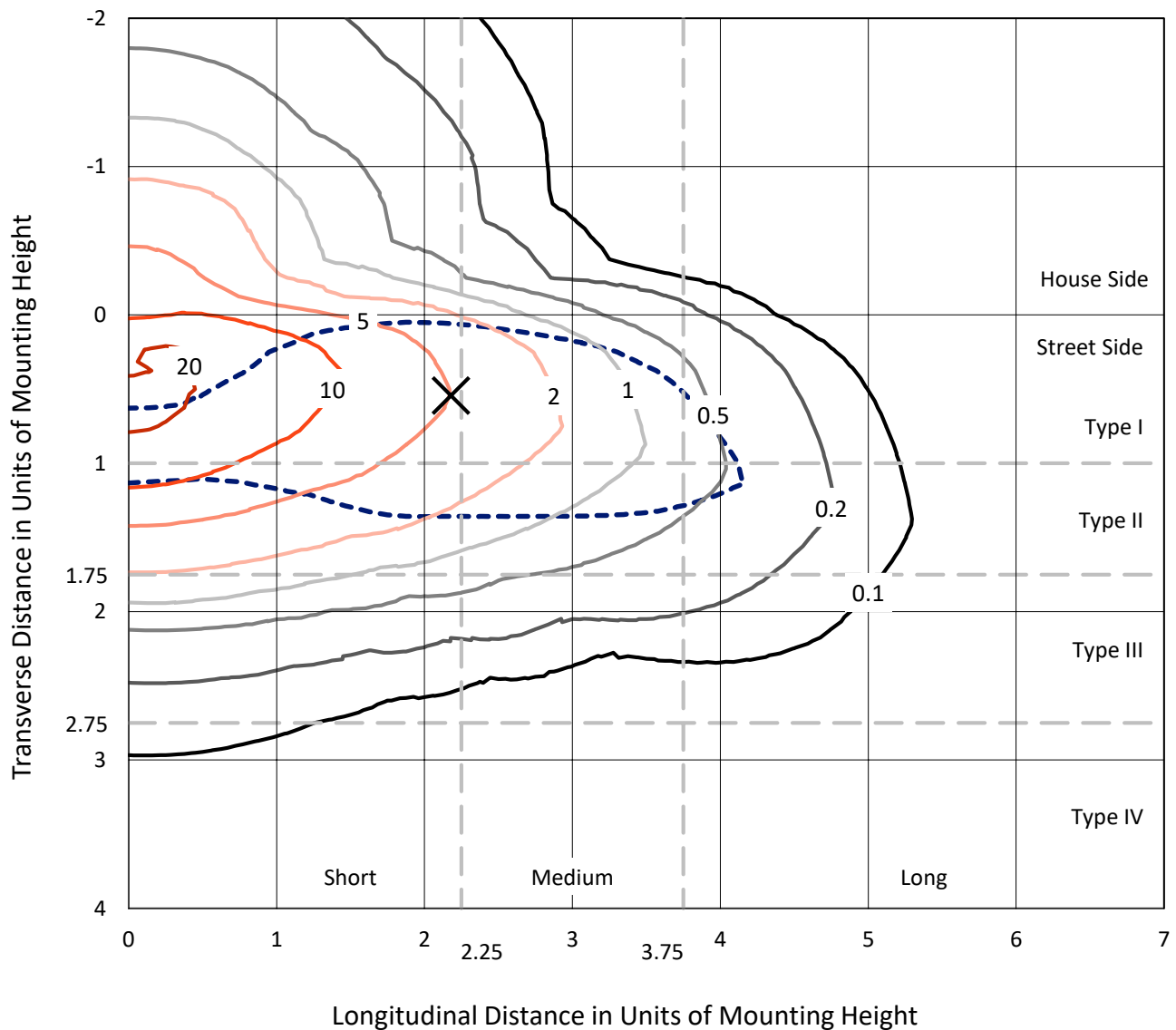


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Iso-Footcandle Lines of Horizontal Illumination

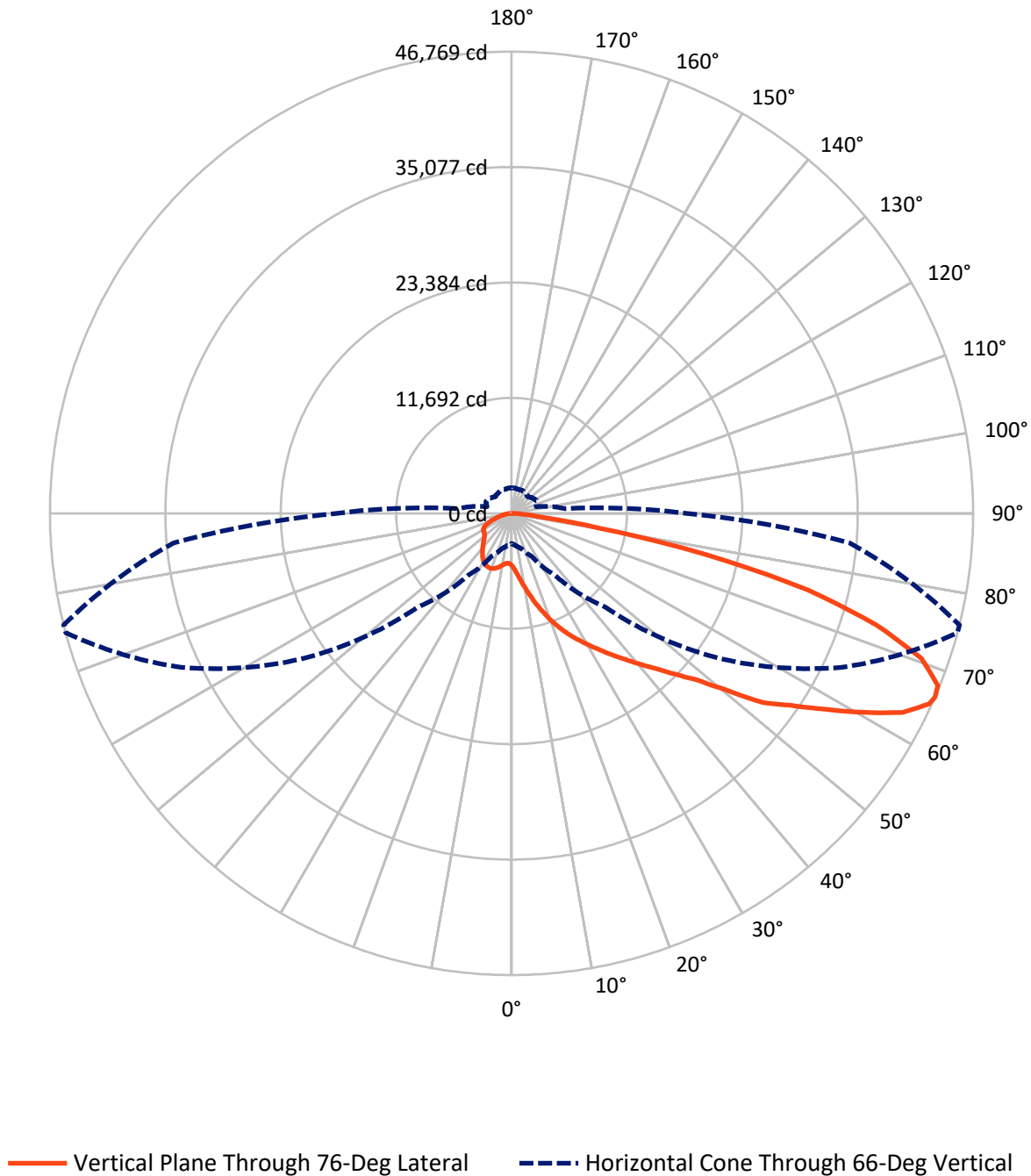
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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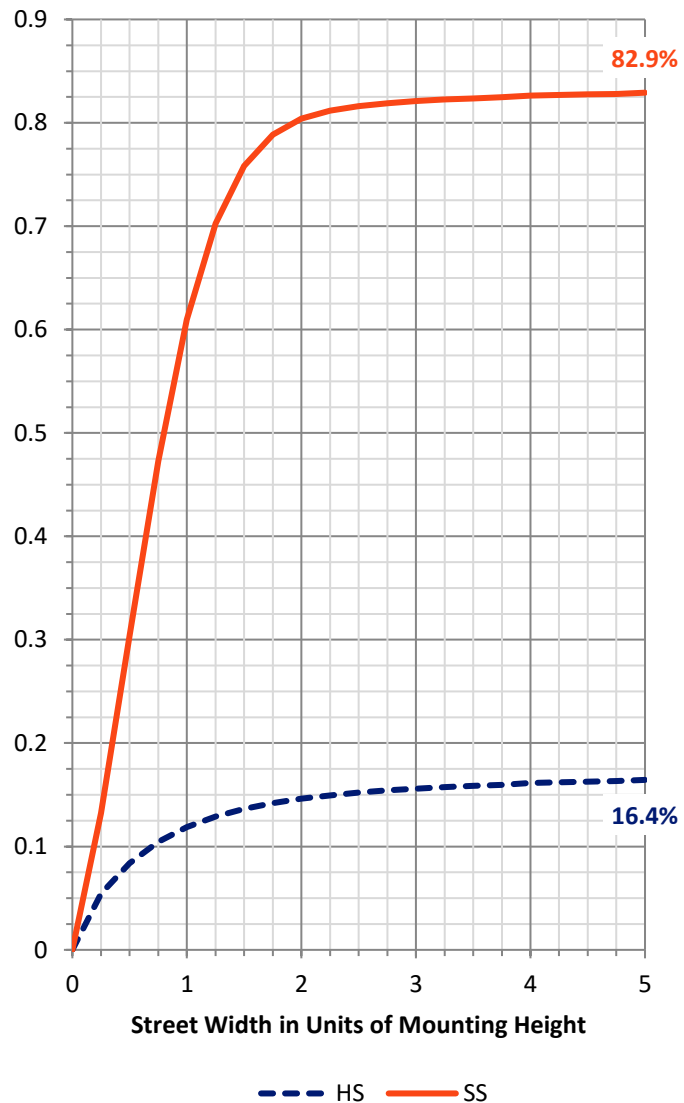
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9752.5	0.0	9752.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	48206.5	0.0	48206.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	57959.0	0.0	57959.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.1	1.1
10°-20°	2527.6	4.4
20°-30°	4911.7	8.5
30°-40°	8016.9	13.8
40°-50°	10953.1	18.9
50°-60°	12758.1	22.0
60°-70°	11437.9	19.7
70°-80°	5780.2	10.0
80°-90°	933.4	1.6
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°	57959.0	100.0
0°-180°	57959.0	100.0

Coefficient of Utilization



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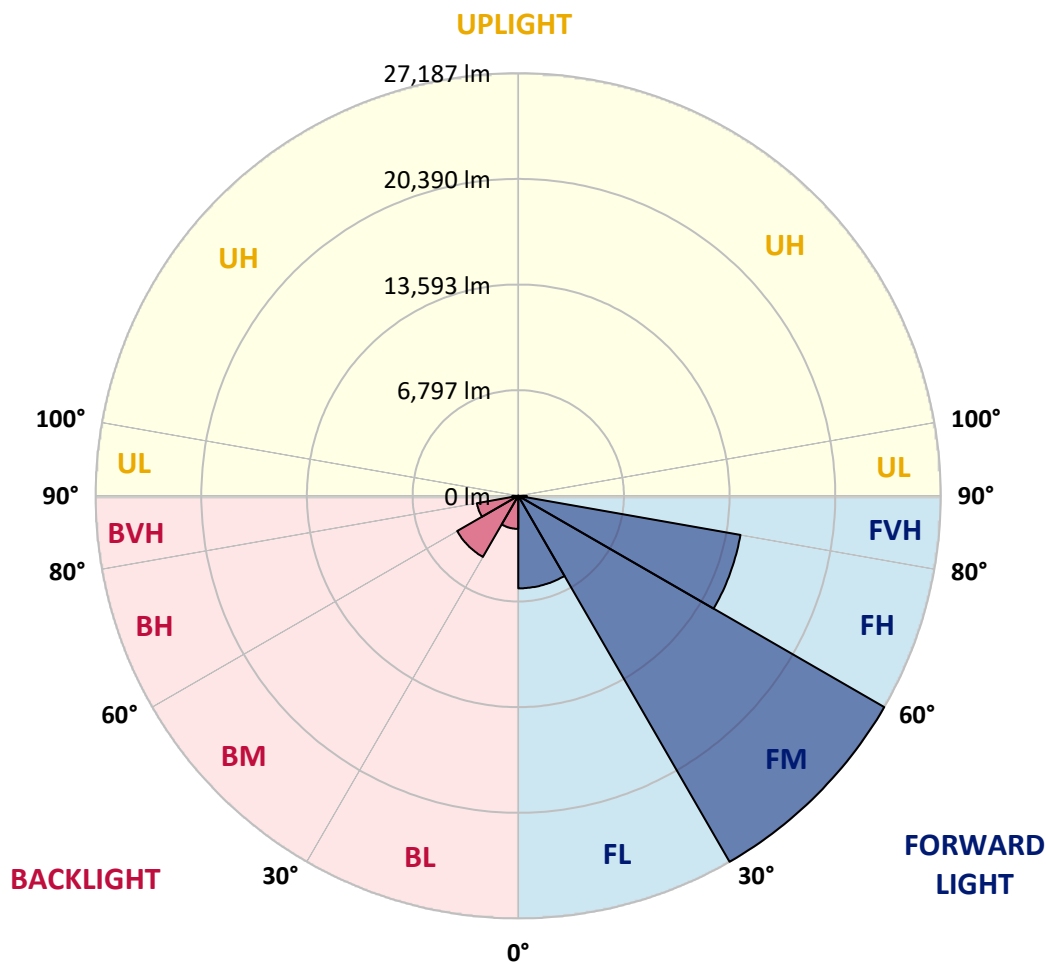
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5952.2	10.3			
FM	(30°-60°)	27186.8	46.9			
FH	(60°-80°)	14516.2	25.0			G5
FVH	(80°-90°)	551.2	1.0			G4/750
BL	(0°-30°)	2127.1	3.7	B3/2500		
BM	(30°-60°)	4541.4	7.8	B3/5000		
BH	(60°-80°)	2701.9	4.7	B4/5000		G4/5000
BVH	(80°-90°)	382.2	0.7			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5293.0	5293.0	5293.0	5293.0	5293.0	5293.0	5293.0	5293.0	5293.0	5293.0	5293.0
2.5°	7026.5	6920.2	6910.4	6754.9	6719.5	6422.4	6204.0	5975.7	5716.0	5664.8	5460.2
5°	9025.6	9015.7	8880.0	8626.2	8427.4	7919.8	7418.0	6886.8	6304.3	6209.9	5749.5
7.5°	10824.0	10808.3	10704.0	10430.5	10143.2	9519.5	8803.2	7988.6	7044.2	6904.5	6141.0
10°	12189.6	12183.7	12148.2	11947.5	11703.5	11105.4	10314.4	9202.7	7904.0	7713.2	6631.0
12.5°	13244.2	13256.0	13279.6	13208.8	13092.7	12583.1	11772.4	10489.5	8821.0	8632.1	7176.0
15°	13958.5	13993.9	14115.9	14216.2	14277.2	13964.4	13179.3	11805.9	9848.1	9621.8	7780.1
17.5°	14318.5	14357.9	14568.4	14871.5	15150.9	15119.4	14495.6	13061.2	10833.9	10615.4	8429.4
20°	14629.4	14659.0	14895.1	15259.1	15753.0	15971.4	15621.1	14269.4	11914.1	11654.4	9118.1
22.5°	15530.6	15568.0	15638.8	15845.4	16282.3	16683.7	16514.4	15412.6	12903.8	12661.8	9771.3
25°	17270.0	17315.3	17161.8	16986.7	17069.3	17348.7	17380.2	16455.4	13907.3	13633.8	10473.8
27.5°	19365.6	19430.5	19168.8	18718.2	18324.7	18216.5	18179.1	17309.4	14865.6	14548.8	11168.4
30°	21417.8	21530.0	21189.6	20605.2	19883.0	19375.4	18999.6	18145.6	15810.0	15507.0	11823.6
32.5°	23422.8	23377.6	22883.7	22313.1	21467.0	20831.5	19922.4	19042.9	16872.6	16524.3	12474.9
35°	24796.3	24812.0	24353.5	23676.7	22869.9	22382.0	21158.1	20010.9	17956.7	17636.0	13214.7
37.5°	25965.0	25892.2	25372.8	24741.2	24046.6	23838.0	22604.3	21077.4	19131.4	18781.2	14001.8
40°	26354.6	26270.0	25929.6	25475.1	24918.3	24900.5	24200.1	22285.5	20459.6	20113.3	14889.2
42.5°	26118.5	26010.3	25870.6	25746.6	25575.4	25654.1	25699.4	23702.2	21919.6	21531.9	15916.3
45°	25246.8	25083.5	25181.9	25451.5	25823.4	26268.1	27053.1	25270.5	23554.7	23230.0	17122.4
47.5°	23906.9	23759.3	24066.3	24642.8	25654.1	26779.6	28334.1	27002.0	25506.6	25183.9	18840.2
50°	22021.9	22065.2	22504.0	23552.7	25081.6	27015.8	29912.1	29294.3	28343.9	28042.9	21183.7
52.5°	18928.7	18936.6	20172.3	21894.0	24066.3	26893.8	30787.7	32224.1	32218.2	31854.2	23415.0
55°	16056.0	16231.1	17209.0	19497.4	22421.3	26405.8	31399.7	33648.7	34762.4	34335.4	25494.8
57.5°	13250.1	13352.4	14279.2	16577.4	20073.9	25105.2	32027.4	35358.6	37694.2	37424.6	28080.3
60°	10058.6	10216.0	11174.3	13297.3	17071.3	22797.1	32086.4	37143.2	41198.5	40927.0	30966.8
62.5°	6528.6	6800.2	7697.4	9686.7	13439.0	19477.7	30716.9	38310.0	44519.9	44423.5	33528.7
65°	3752.3	3956.9	4580.7	6115.4	9271.5	15310.2	27460.4	37861.4	46564.3	46509.2	34486.9
66°	3065.6	3193.5	3671.6	4779.4	7650.2	13444.9	25567.6	36915.0	46767.0	46768.9	34376.7
67.5°	2451.7	2508.7	2723.2	3421.7	5645.2	10656.8	22185.2	34827.3	46515.1	46584.0	33666.4
70°	2028.6	2058.2	2125.1	2294.3	3081.3	6426.3	15747.1	29402.5	43986.7	44039.8	30894.0
72.5°	1820.1	1837.8	1863.4	1887.0	2174.2	3591.0	9617.8	23521.2	38565.8	38634.7	26669.5
75°	1648.9	1658.7	1654.8	1656.8	1824.0	2288.4	4970.3	17561.2	31183.2	31045.5	20430.1
77.5°	1448.2	1458.0	1438.3	1442.3	1613.5	1759.1	2473.3	12293.8	21044.0	20071.9	11510.7
80°	1223.9	1231.7	1223.9	1237.6	1404.9	1328.2	1438.3	6916.3	9305.0	8801.3	4092.7
82.5°	924.8	958.2	981.9	1036.9	1157.0	944.5	962.2	2693.7	2833.4	2697.6	1255.4
85°	405.3	493.9	739.8	793.0	869.7	566.7	631.6	1097.9	1153.0	1117.6	456.5
87.5°	106.3	116.1	366.0	460.4	482.1	255.8	328.6	499.8	527.3	499.8	151.5
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°	5293.0	5293.0	5293.0	5293.0	5293.0	5293.0	5293.0	5293.0	5293.0	5293.0	5293.0
2.5°	5352.0	5255.6	5082.4	4928.9	4812.9	4734.2	4655.4	4616.1	4592.5	4568.9	4572.8
5°	5523.2	5328.4	5031.3	4820.7	4702.7	4627.9	4588.5	4572.8	4563.0	4539.4	4539.4
7.5°	5780.9	5505.5	5096.2	4879.8	4787.3	4730.2	4706.6	4698.7	4686.9	4659.4	4663.3
10°	6105.6	5719.9	5232.0	5021.4	4936.8	4873.9	4840.4	4828.6	4807.0	4775.5	4779.4
12.5°	6487.3	5985.6	5411.0	5190.6	5088.3	5003.7	4948.6	4915.2	4877.8	4836.5	4838.4
15°	6904.5	6274.8	5603.9	5342.2	5202.5	5084.4	4995.8	4938.8	4879.8	4828.6	4826.6
17.5°	7327.5	6554.2	5751.4	5424.8	5235.9	5080.5	4960.4	4871.9	4799.1	4736.1	4730.2
20°	7784.0	6806.1	5834.1	5416.9	5172.9	4988.0	4828.6	4718.4	4637.7	4574.8	4564.9
22.5°	8248.4	7042.2	5847.8	5336.3	5033.2	4807.0	4639.7	4517.7	4435.1	4370.1	4346.5
25°	8673.4	7225.2	5790.8	5180.8	4838.4	4594.5	4431.1	4307.2	4240.3	4163.5	4139.9
27.5°	9061.0	7353.1	5676.7	4982.1	4620.0	4380.0	4226.5	4120.2	4047.4	3988.4	3968.7
30°	9409.3	7422.0	5489.7	4746.0	4395.7	4177.3	4047.4	3974.6	3911.7	3836.9	3823.1
32.5°	9739.8	7422.0	5249.7	4488.2	4173.4	3998.3	3921.5	3876.3	3805.4	3732.6	3712.9
35°	10070.4	7376.7	4966.3	4218.6	3968.7	3870.4	3866.4	3813.3	3705.1	3606.7	3581.1
37.5°	10418.7	7284.2	4647.6	3966.8	3801.5	3813.3	3846.7	3728.7	3575.2	3435.5	3398.1
40°	10812.2	7156.3	4317.0	3748.4	3661.8	3787.7	3793.6	3606.7	3307.6	3179.7	3146.3
42.5°	11274.6	7028.4	4010.1	3555.5	3551.6	3711.0	3693.3	3343.0	3164.0	3099.0	3081.3
45°	11882.6	6955.6	3718.8	3372.5	3465.0	3587.0	3522.1	3197.4	3122.7	3085.3	3069.5
47.5°	12840.8	6993.0	3451.2	3226.9	3378.4	3463.1	3203.3	3138.4	3085.3	3040.0	3024.3
50°	14041.1	6971.4	3234.8	3126.6	3280.1	3333.2	3059.7	3061.7	3034.1	2982.9	2959.3
52.5°	14944.3	6802.1	3095.1	3069.5	3193.5	3103.0	2969.2	2986.9	2973.1	2898.3	2872.8
55°	15815.9	6656.5	3024.3	3047.9	3130.5	2815.7	2862.9	2906.2	2892.4	2819.6	2807.8
57.5°	16900.1	6629.0	2981.0	3053.8	3077.4	2672.1	2760.6	2817.7	2807.8	2776.3	2770.4
60°	18228.3	6636.9	2941.6	3063.6	3018.4	2565.8	2664.2	2737.0	2742.9	2737.0	2733.1
62.5°	18958.3	6422.4	2843.2	3036.1	2914.1	2473.3	2563.8	2670.1	2672.1	2683.9	2681.9
65°	18338.4	5780.9	2660.3	2939.7	2739.0	2396.6	2477.3	2593.4	2563.8	2617.0	2617.0
66°	17736.3	5411.0	2569.7	2876.7	2664.2	2367.1	2449.7	2554.0	2516.6	2589.4	2589.4
67.5°	16506.6	4787.3	2406.4	2742.9	2557.9	2325.8	2418.2	2489.1	2437.9	2546.1	2538.3
70°	14259.5	3703.1	2077.8	2439.9	2382.8	2264.8	2374.9	2359.2	2284.4	2449.7	2418.2
72.5°	12022.3	2813.7	1668.6	2042.4	2117.2	2188.0	2314.0	2193.9	2099.5	2215.6	2146.7
75°	9328.6	2115.2	1318.3	1587.9	1788.6	2068.0	2241.1	2003.1	1867.3	1855.5	1818.1
77.5°	5043.1	1452.1	1044.8	1212.1	1420.6	1918.5	2192.0	1798.4	1593.8	1546.6	1517.1
80°	1997.2	944.5	759.5	918.9	993.7	1702.0	2073.9	1560.3	1314.4	1267.2	1221.9
82.5°	824.4	558.8	489.9	615.9	647.4	1456.1	1861.4	1279.0	1015.3	1404.9	1491.5
85°	354.2	307.0	291.2	318.8	366.0	1021.2	1481.6	976.0	1096.0	977.9	777.2
87.5°	106.3	129.9	124.0	122.0	133.8	244.0	789.0	543.1	804.8	305.0	228.2
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)