

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: P317904

Luminaire Tested: **GAN-SA0D-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57724 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

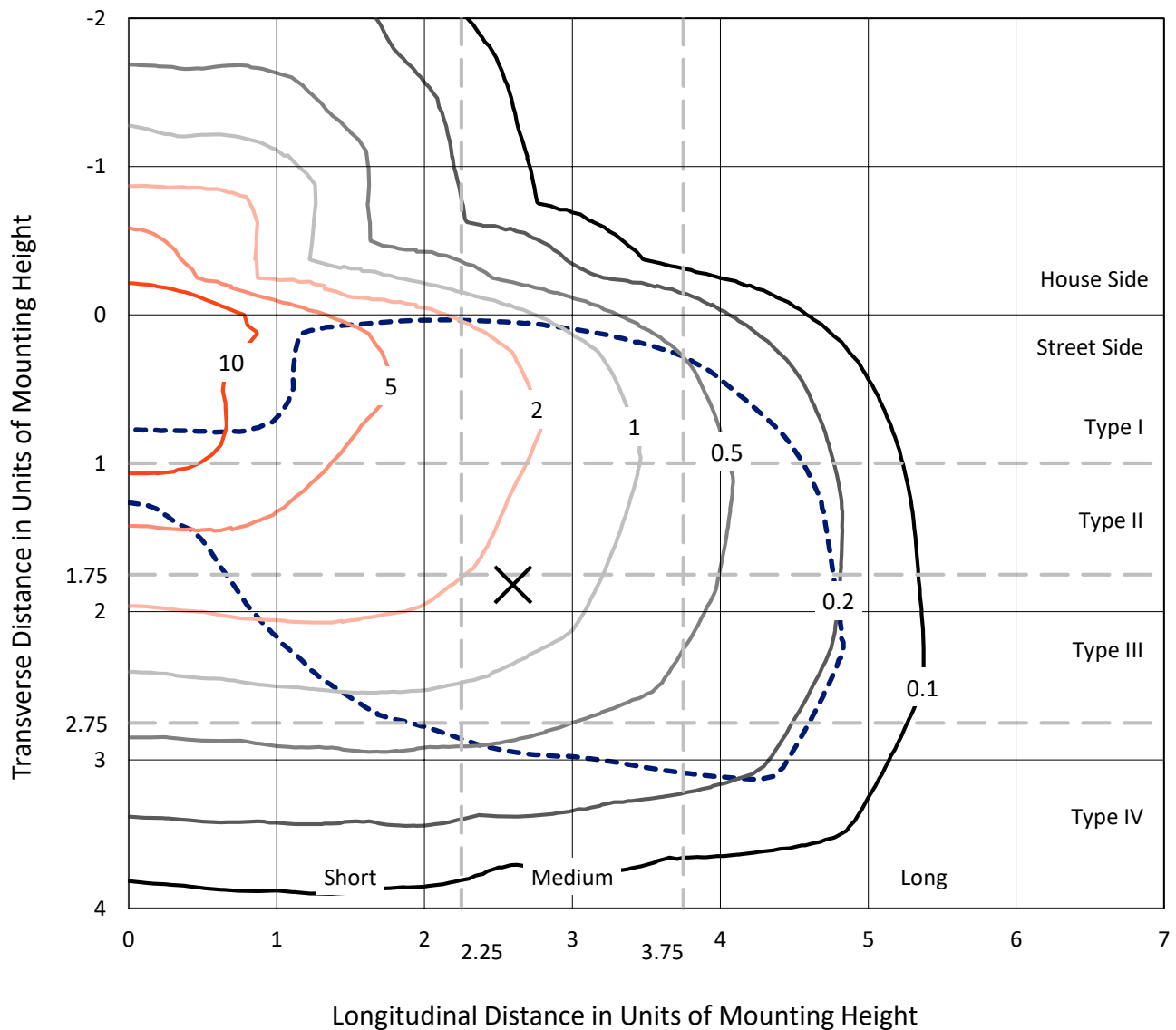
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

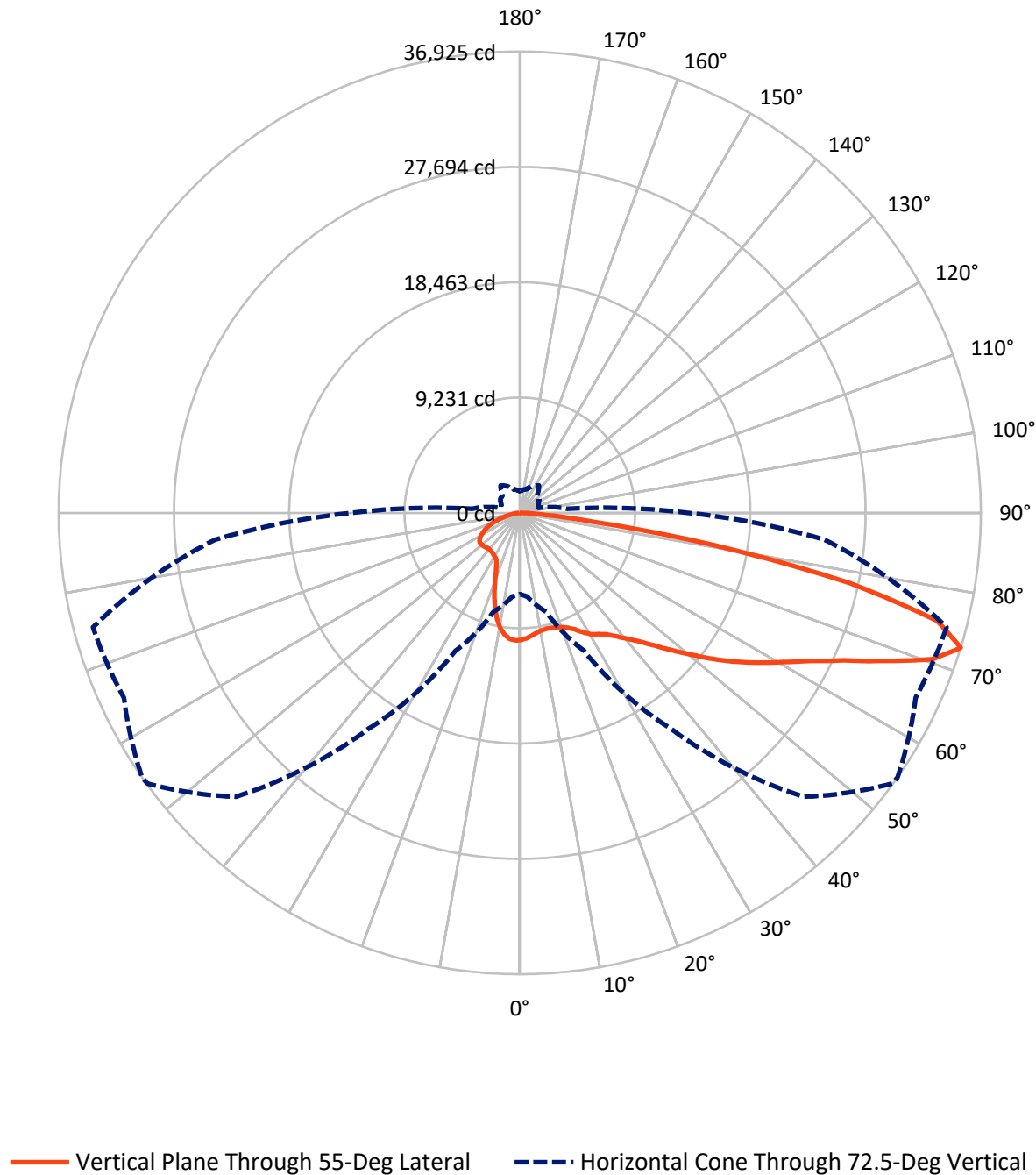
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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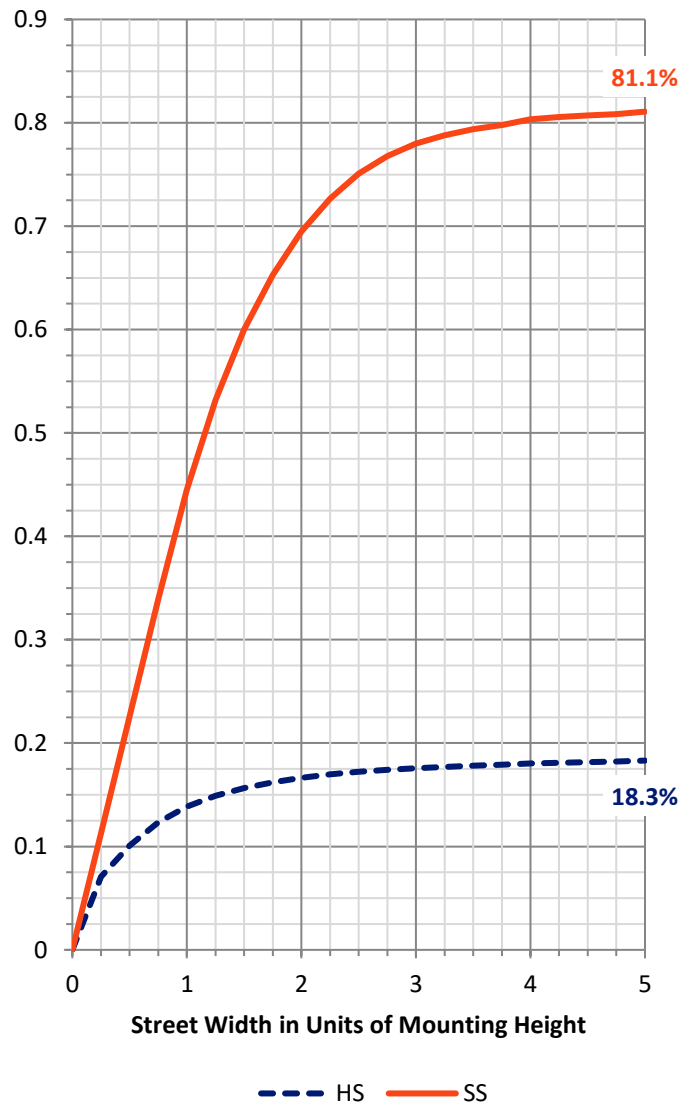
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10729.0	0.0	10729.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	46995.0	0.0	46995.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	57724.0	0.0	57724.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	921.3	1.6
10°-20°	2452.8	4.2
20°-30°	4044.1	7.0
30°-40°	5982.2	10.4
40°-50°	8349.9	14.5
50°-60°	10871.8	18.8
60°-70°	13361.1	23.1
70°-80°	10473.5	18.1
80°-90°	1267.4	2.2
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°	57724.0	100.0
0°-180°	57724.0	100.0

Coefficient of Utilization



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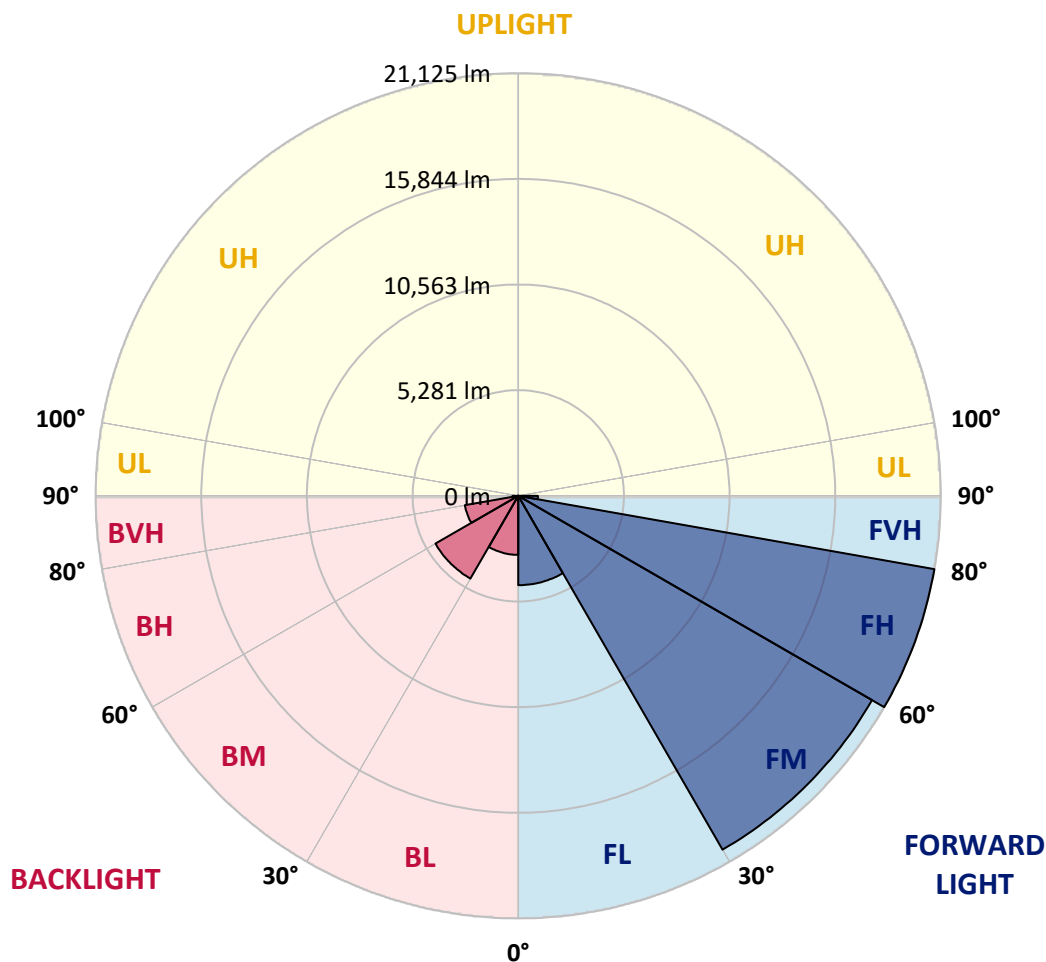
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4466.2	7.7			
FM	(30°-60°)	20423.9	35.4			
FH	(60°-80°)	21125.0	36.6			G5
FVH	(80°-90°)	979.9	1.7			G5
BL	(0°-30°)	2952.0	5.1	B4/5000		
BM	(30°-60°)	4779.9	8.3	B3/5000		
BH	(60°-80°)	2709.6	4.7	B4/5000		G4/5000
BVH	(80°-90°)	287.5	0.5			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10181.3	10181.3	10181.3	10181.3	10181.3	10181.3	10181.3	10181.3	10181.3	10181.3	10181.3
2.5°	9849.8	9826.4	9855.7	9896.6	9941.5	10001.9	10037.0	10052.6	10113.0	10136.4	10187.1
5°	9393.6	9381.9	9430.6	9500.8	9600.3	9740.6	9853.7	9875.2	10035.0	10148.1	10251.5
7.5°	9062.2	9062.2	9118.7	9202.5	9313.7	9502.8	9662.7	9691.9	9962.9	10206.6	10397.7
10°	8798.9	8808.7	8875.0	8974.4	9105.0	9305.9	9518.4	9551.5	9943.4	10343.1	10647.2
12.5°	8623.5	8646.9	8707.3	8797.0	8958.8	9202.5	9471.6	9516.4	9984.4	10538.1	10947.5
15°	8734.6	8773.6	8779.4	8816.5	8906.2	9171.3	9498.9	9545.7	10072.1	10736.9	11288.7
17.5°	9222.0	9235.7	9175.2	9097.2	9054.4	9224.0	9580.8	9629.5	10177.4	10933.9	11616.2
20°	9962.9	9955.1	9824.5	9613.9	9395.5	9422.8	9715.3	9766.0	10319.7	11107.4	11943.8
22.5°	10898.8	10871.5	10670.6	10282.7	9910.3	9754.3	9951.2	9994.1	10534.2	11355.0	12294.7
25°	12033.5	11973.0	11707.9	11187.3	10639.4	10237.8	10306.1	10347.0	10846.1	11631.8	12616.4
27.5°	13230.6	13170.1	12832.8	12203.1	11473.9	10848.1	10795.4	10830.5	11201.0	11836.6	12854.3
30°	14482.3	14417.9	14109.9	13404.1	12359.1	11479.8	11251.7	11265.3	11450.5	11947.7	13049.3
32.5°	15739.8	15679.4	15334.3	14515.4	13320.3	12158.3	11581.1	11563.6	11600.6	12062.7	13269.6
35°	17014.9	17038.3	16634.7	15728.1	14384.8	12912.8	11971.1	11934.0	11852.2	12298.6	13581.5
37.5°	18379.7	18364.1	17841.6	16894.0	15498.1	13731.7	12530.6	12524.8	12242.1	12745.1	14070.9
40°	19292.2	19301.9	18984.1	18087.3	16623.0	14638.3	13248.1	13234.5	12864.0	13413.9	14712.3
42.5°	19649.0	19713.3	19795.2	19225.9	17800.7	15689.1	14104.0	14084.5	13731.7	14373.1	15466.9
45°	19674.3	19803.0	20309.9	20237.8	18993.9	16892.1	15197.8	15143.2	14889.8	15648.2	16367.6
47.5°	19455.9	19588.5	20430.8	20840.2	20060.3	18161.3	16476.8	16433.9	16215.6	17243.0	17342.5
50°	18978.3	19105.0	20181.2	21134.6	20937.7	19381.9	17950.8	17837.7	17720.7	19085.5	18457.7
52.5°	18083.4	18327.1	19847.8	21204.8	21462.2	20465.9	19500.8	19426.7	19491.0	21029.3	19574.9
55°	15964.0	16237.0	18988.0	21146.3	21850.2	21376.4	21050.8	21046.9	21380.3	23068.7	20773.9
57.5°	14776.7	14969.7	17237.2	21046.9	22310.3	22281.0	22585.2	22622.2	23271.5	25289.4	22029.5
60°	14106.0	14308.8	16350.1	20678.4	23023.9	23450.8	24150.8	24224.9	25193.9	27748.0	23540.5
62.5°	13495.7	13718.0	15800.3	19927.8	23864.2	25123.7	26026.4	26092.7	27229.3	30274.8	25000.9
65°	12452.7	12704.2	14995.1	19434.5	24628.5	27305.4	28410.9	28455.7	29567.0	32922.4	26118.0
67.5°	10978.7	11208.8	13476.2	18344.6	25193.9	29955.0	31581.0	31606.4	31885.2	34792.2	26689.3
70°	9257.1	9344.9	11312.1	16094.7	24525.1	32433.1	35055.4	35061.2	33998.7	35989.3	26595.7
72.5°	6504.2	6710.8	8212.1	12183.6	21076.1	32130.9	36858.9	36925.1	34981.3	35384.9	24470.5
75°	3989.1	4207.4	5151.1	7383.5	13371.0	25269.9	34055.2	34515.3	33138.8	31549.9	19990.2
77.5°	2667.2	2749.1	3361.3	4304.9	6057.7	14538.8	26182.4	27048.0	27529.6	23008.3	12784.1
80°	1487.6	1643.6	2228.5	2675.0	2694.5	5776.9	15698.9	15901.7	15316.8	9161.6	3944.2
82.5°	787.7	873.5	1487.6	1571.4	1470.1	1934.1	5851.0	5856.9	4893.7	2456.6	1171.8
85°	610.3	682.4	1019.7	959.2	750.6	857.9	1930.2	2035.5	1665.0	1006.0	382.1
87.5°	304.2	378.2	692.1	608.3	294.4	245.7	690.2	737.0	657.0	393.8	138.4
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°	10181.3	10181.3	10181.3	10181.3	10181.3	10181.3	10181.3	10181.3	10181.3	10181.3	10181.3
2.5°	10206.6	10224.2	10245.6	10222.2	10214.4	10183.2	10130.6	10118.9	10091.6	10093.5	10109.1
5°	10296.3	10325.5	10313.9	10224.2	10116.9	9966.8	9810.8	9678.3	9590.5	9584.7	9578.8
7.5°	10467.9	10487.4	10395.7	10140.3	9840.1	9493.0	9165.5	8878.9	8705.4	8662.5	8652.7
10°	10736.9	10733.0	10481.5	9966.8	9368.3	8748.3	8221.8	7824.1	7592.1	7523.8	7506.3
12.5°	11037.2	10992.3	10510.8	9651.0	8701.5	7841.6	7174.9	6732.3	6490.5	6412.5	6393.0
15°	11347.2	11236.1	10438.6	9179.1	7882.6	6864.9	6164.9	5755.5	5624.9	5582.0	5574.2
17.5°	11635.7	11421.3	10232.0	8539.6	6948.7	5892.0	5346.0	5182.3	5213.5	5270.0	5272.0
20°	11918.4	11546.1	9900.5	7732.5	5964.1	5090.6	4905.4	5026.3	5174.5	5289.5	5305.1
22.5°	12197.2	11633.8	9473.5	6800.5	5082.8	4640.3	4770.9	4991.2	5160.8	5285.6	5307.1
25°	12431.2	11655.2	8884.7	5806.2	4470.6	4470.6	4706.5	4915.2	5082.8	5205.7	5227.1
27.5°	12517.0	11511.0	8054.2	4885.9	4162.6	4392.6	4616.9	4790.4	4932.7	5063.3	5086.7
30°	12550.1	11243.9	7094.9	4147.0	4035.9	4308.8	4496.0	4644.2	4778.7	4901.5	4923.0
32.5°	12556.0	10922.2	6077.2	3727.8	3948.1	4221.1	4345.9	4476.5	4620.8	4669.5	4677.3
35°	12593.0	10542.0	5004.8	3513.3	3866.2	4139.2	4238.6	4332.2	4098.2	4115.8	4131.4
37.5°	12700.3	10165.7	4108.0	3392.5	3813.6	4096.3	4215.2	3876.0	3692.7	3649.8	3644.0
40°	12901.1	9764.0	3443.1	3295.0	3794.1	4117.7	4065.1	3618.6	3302.8	3066.9	3031.8
42.5°	13179.9	9331.2	3018.1	3230.6	3807.7	4221.1	3856.5	3371.0	2846.5	2694.5	2675.0
45°	13493.8	8876.9	2788.1	3185.8	3854.5	4301.0	3813.6	3041.5	2634.0	2519.0	2509.2
47.5°	13797.9	8321.3	2669.1	3166.3	3918.9	4236.7	3632.3	2940.1	2532.6	2472.2	2478.1
50°	14146.9	7820.2	2597.0	3144.8	3975.4	4195.7	3427.6	2887.5	2493.7	2567.7	2645.7
52.5°	14441.3	7301.6	2532.6	3102.0	3996.9	4123.6	3374.9	2897.2	2493.7	2636.0	2710.1
55°	14790.3	6909.7	2458.6	3012.3	3955.9	3918.9	3337.9	2955.7	2522.9	2433.2	2441.0
57.5°	15240.7	6781.0	2376.7	2871.9	3819.4	3620.6	3320.3	3012.3	2505.3	2448.8	2468.3
60°	15864.6	6917.5	2343.5	2688.6	3606.9	3386.6	3322.3	2983.0	2382.5	2285.0	2287.0
62.5°	16459.3	7069.6	2341.6	2573.6	3345.7	3178.0	3277.4	2887.5	2320.1	2263.6	2285.0
65°	16654.2	6915.5	2248.0	2444.9	3051.3	2928.4	3195.5	2786.1	2273.3	2187.6	2183.7
67.5°	16393.0	6437.9	2058.9	2236.3	2714.0	2637.9	3088.3	2665.2	2199.2	2129.1	2117.4
70°	15617.0	5371.4	1824.9	1961.4	2329.9	2310.4	2918.7	2524.8	2099.8	2039.4	1988.7
72.5°	13528.9	3827.2	1538.3	1631.9	1897.0	1959.4	2684.7	2341.6	1959.4	1828.8	1750.8
75°	11111.3	2832.9	1263.4	1282.9	1440.8	1610.4	2363.0	2127.1	1793.7	1571.4	1511.0
77.5°	6804.4	1733.3	1006.0	1013.8	1033.3	1284.8	1945.8	1887.3	1583.1	1310.2	1267.3
80°	2203.1	945.6	727.2	764.3	705.8	941.7	1505.2	1606.5	1358.9	1095.7	1048.9
82.5°	838.4	551.8	491.3	516.7	489.4	631.7	1097.7	1286.8	1113.3	900.8	733.1
85°	405.5	312.0	290.5	325.6	302.2	323.6	701.9	947.5	844.2	586.9	545.9
87.5°	144.3	138.4	111.1	150.1	128.7	115.0	214.5	477.7	557.6	403.6	360.7
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)