

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: P319224

Luminaire Tested: **GAN-SA0D-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60602 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
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

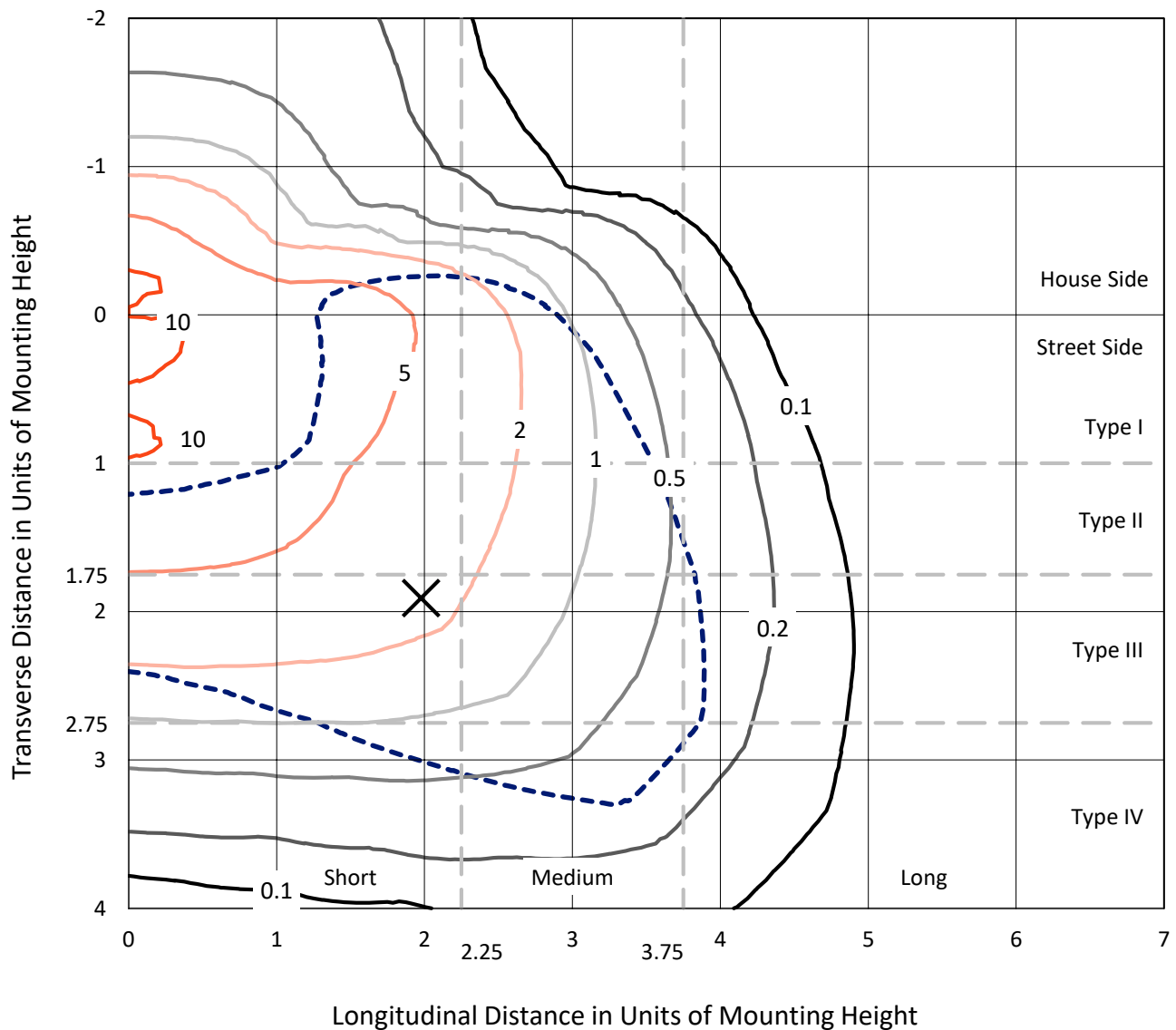


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Iso-Footcandle Lines of Horizontal Illumination

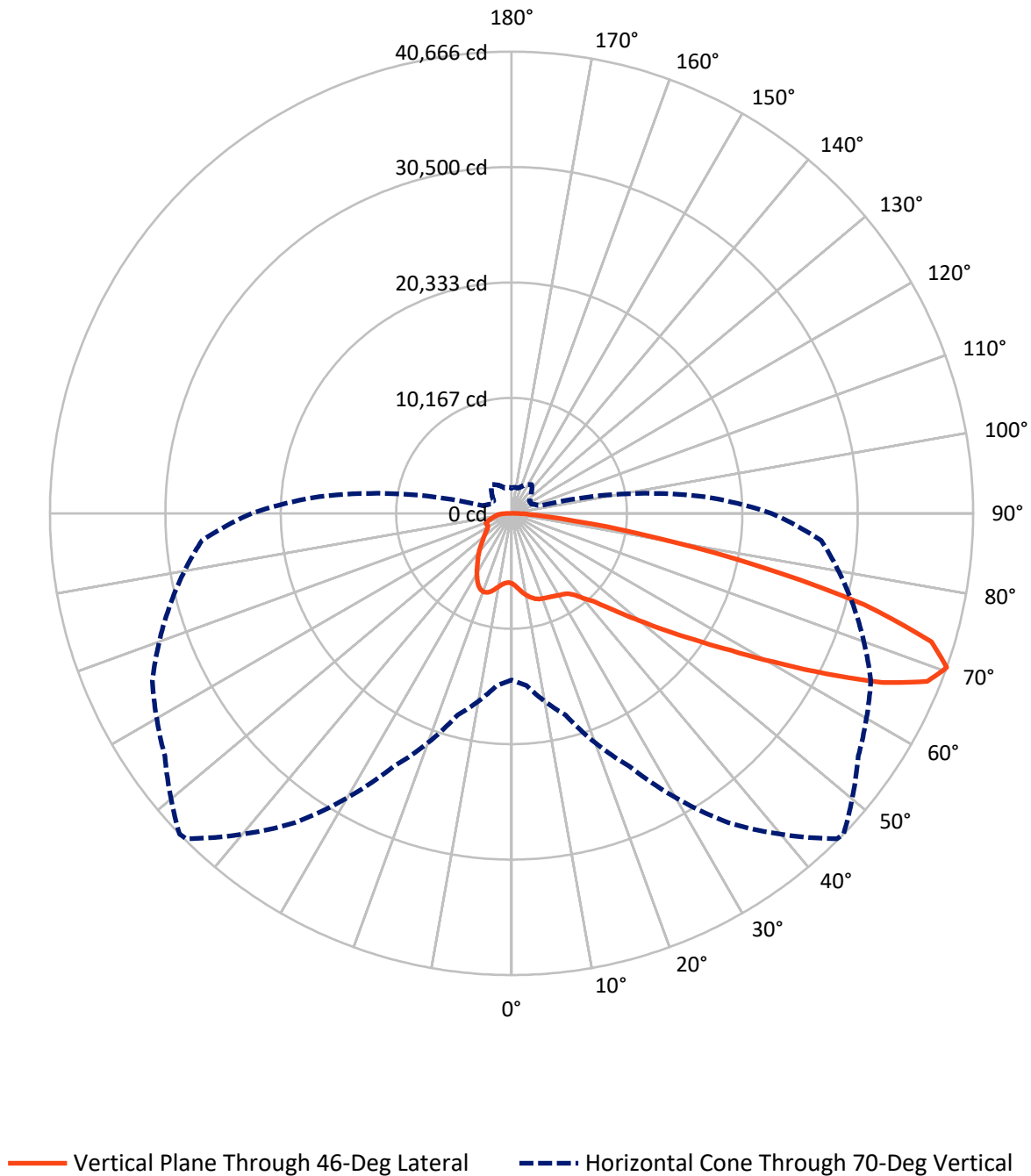
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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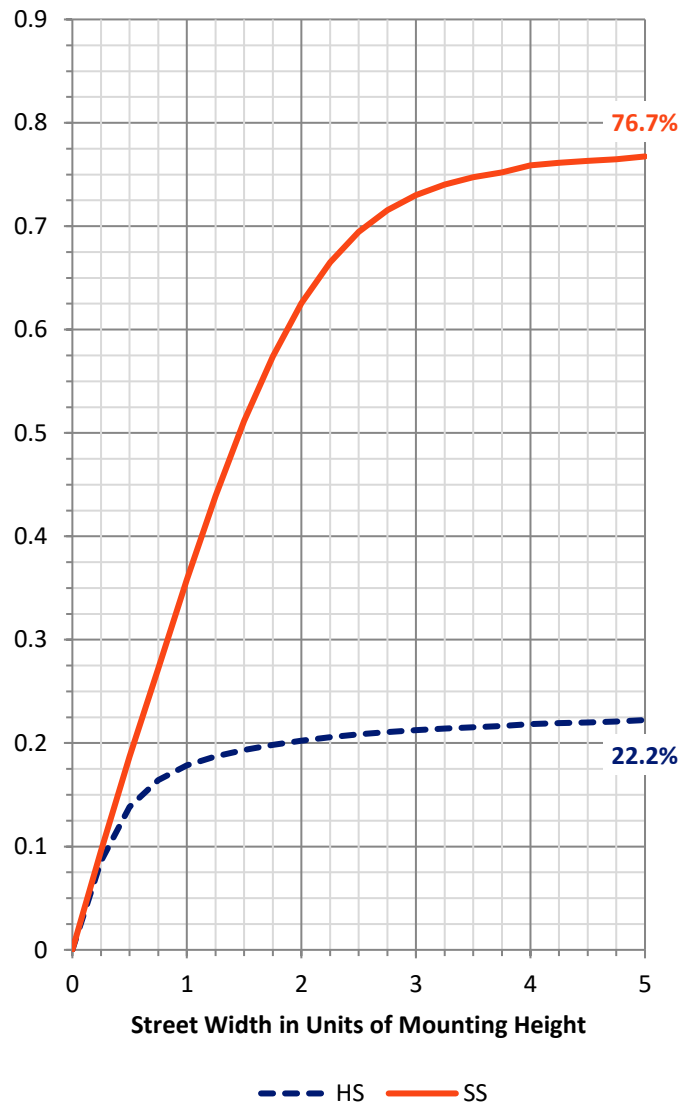
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13889.8	0.0	13889.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	46712.2	0.0	46712.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	60602.0	0.0	60602.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	629.4	1.0
10°-20°	2097.0	3.5
20°-30°	3496.5	5.8
30°-40°	4961.8	8.2
40°-50°	7298.5	12.0
50°-60°	12360.0	20.4
60°-70°	17544.8	29.0
70°-80°	10658.6	17.6
80°-90°	1555.5	2.6
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°	60602.0	100.0
0°-180°	60602.0	100.0

Coefficient of Utilization



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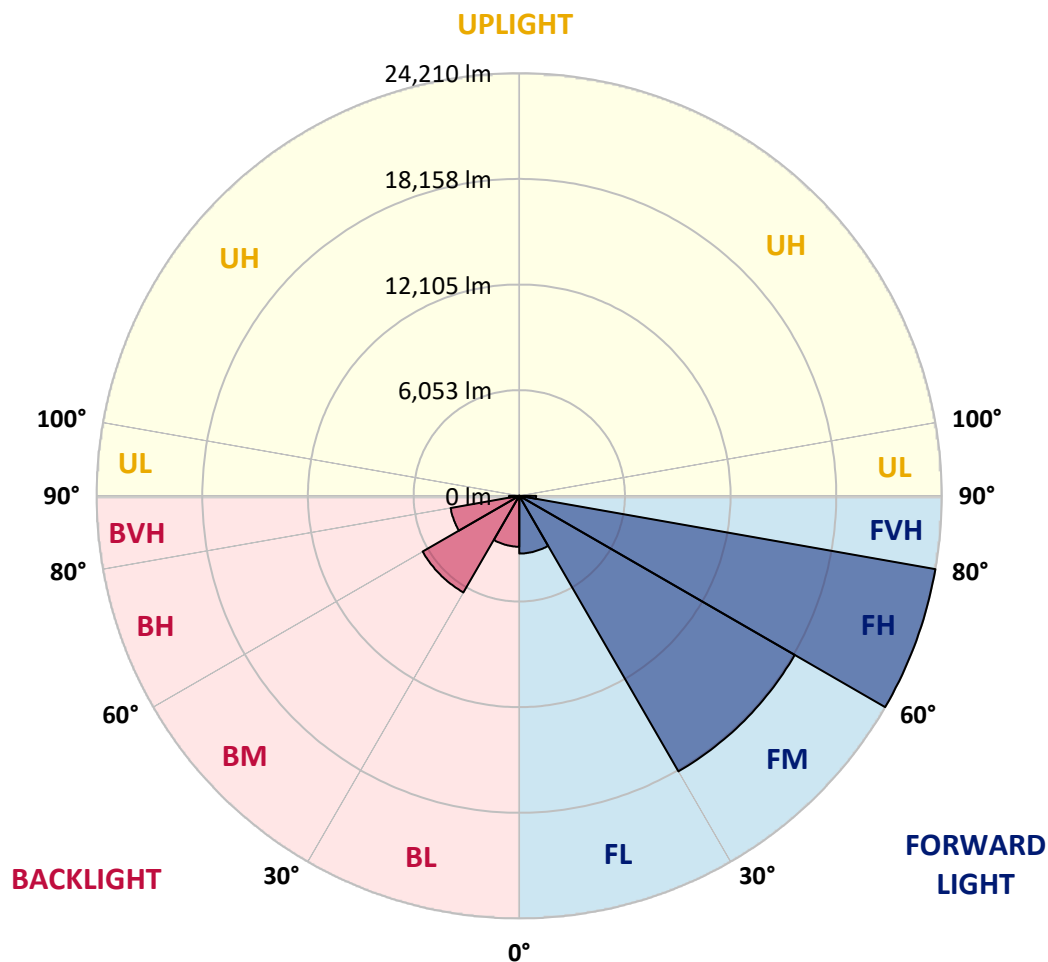
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3306.7	5.5			
FM	(30°-60°)	18226.4	30.1			
FH	(60°-80°)	24210.2	39.9			G5
FVH	(80°-90°)	968.9	1.6			G5
BL	(0°-30°)	2916.2	4.8	B4/5000		
BM	(30°-60°)	6393.8	10.6	B4/8500		
BH	(60°-80°)	3993.2	6.6	B4/5000		G4/5000
BVH	(80°-90°)	586.5	1.0			G4/750
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	6174.2	6174.2	6174.2	6174.2	6174.2	6174.2	6174.2	6174.2	6174.2	6174.2	6174.2
2.5°	6483.2	6487.3	6495.6	6474.9	6416.8	6400.2	6394.0	6333.9	6294.4	6236.4	6186.6
5°	7001.7	7005.8	6993.4	6935.3	6806.7	6711.3	6703.0	6566.1	6441.7	6309.0	6209.4
7.5°	7543.0	7549.2	7509.8	7399.9	7219.4	7053.5	7043.1	6856.5	6667.8	6466.6	6317.3
10°	8022.0	7997.2	7932.9	7779.4	7565.8	7362.5	7354.2	7159.3	6941.5	6698.9	6499.8
12.5°	8341.4	8320.7	8237.7	8051.1	7816.7	7630.1	7613.5	7433.0	7221.5	6956.0	6717.5
15°	8517.7	8532.2	8420.2	8208.7	7980.6	7823.0	7808.4	7679.8	7491.1	7223.6	6949.8
17.5°	8540.5	8553.0	8445.1	8235.7	8049.0	7941.2	7934.9	7849.9	7713.0	7455.9	7169.7
20°	8407.8	8416.1	8326.9	8154.8	8032.4	7999.2	7997.2	7959.8	7858.2	7630.1	7352.2
22.5°	8214.9	8221.1	8156.9	8032.4	7990.9	8042.8	8057.3	8042.8	7970.2	7756.6	7495.3
25°	8167.2	8163.1	8096.7	7970.2	8005.5	8115.4	8134.0	8140.3	8090.5	7903.8	7677.8
27.5°	8397.4	8382.9	8256.4	8053.2	8076.0	8208.7	8233.6	8293.7	8262.6	8098.8	7885.2
30°	9063.2	9038.3	8779.0	8368.4	8256.4	8324.8	8356.0	8451.4	8457.6	8320.7	8161.0
32.5°	10187.3	10156.1	9691.6	8957.4	8561.3	8443.1	8472.1	8615.2	8691.9	8586.2	8414.0
35°	11607.9	11572.7	10962.9	9959.1	9071.5	8669.1	8689.9	8803.9	8957.4	8808.1	8579.9
37.5°	13088.7	13003.7	12416.8	11137.1	9882.4	9152.4	9152.4	9166.9	9239.5	8928.4	8774.9
40°	14561.2	14476.2	13945.3	12522.5	10931.8	9913.5	9865.8	9544.3	9486.3	9218.7	9166.9
42.5°	15930.0	15905.1	15592.0	14088.4	12163.7	10662.2	10595.8	10050.4	10062.8	9896.9	9899.0
45°	17385.9	17385.9	17130.9	15668.7	13598.9	11865.1	11798.7	10996.1	11120.5	11043.8	11228.4
47.5°	18574.3	18611.7	18576.4	17315.4	15268.4	13393.6	13273.3	12306.8	12655.3	12918.7	13455.8
50°	19787.6	19845.7	19851.9	19121.8	17286.4	15210.4	15073.5	14046.9	14824.6	15579.5	16635.2
52.5°	21548.4	21679.0	21158.5	20924.1	19758.5	17367.3	17232.5	16284.7	17583.0	18642.8	20461.6
55°	23180.6	23066.5	22695.3	22840.4	22404.9	19822.8	19721.2	18889.6	20656.6	22033.7	24395.9
57.5°	24064.1	24055.8	24429.1	25051.3	25258.7	22850.8	22765.8	21956.9	24122.1	25157.0	28089.6
60°	25101.1	25115.6	26040.6	27452.9	28307.4	26621.3	26583.9	25970.0	27488.2	28073.0	30986.9
62.5°	25246.2	25507.5	27100.3	29531.0	31161.1	31026.3	31109.3	29584.9	30499.6	30400.0	33150.1
65°	23576.7	23921.0	26803.8	30159.4	33998.3	35844.1	35920.9	33220.6	32874.2	32388.9	33923.6
67.5°	20154.7	20664.9	23796.5	28792.7	34933.7	39405.1	39512.9	36039.1	34844.5	33063.0	32061.2
70°	14667.0	15233.2	18385.6	24590.9	33266.2	40543.7	40666.1	37285.5	34919.1	31144.5	27370.0
72.5°	8859.9	9303.8	11902.4	18103.5	28077.2	38469.8	38687.5	35705.2	31880.8	26380.7	20210.7
75°	3890.7	4181.1	5755.2	10432.0	20100.8	31829.0	32100.6	30561.8	25903.7	19171.6	11946.0
77.5°	1657.1	1740.0	2360.2	4531.6	11363.2	21749.5	22122.9	22330.3	17574.7	10432.0	5048.0
80°	1032.8	1066.0	1335.6	2051.1	5317.6	12215.6	12617.9	13138.5	8727.2	3834.7	1762.9
82.5°	628.4	665.7	887.7	1240.2	2768.7	5537.5	5730.3	6097.4	3386.8	1657.1	912.5
85°	377.5	404.4	543.4	784.0	1576.2	2177.7	2175.6	2405.8	1594.9	1066.0	481.2
87.5°	180.4	201.2	290.4	406.5	794.3	817.1	765.3	866.9	968.5	698.9	242.7
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°	6174.2	6174.2	6174.2	6174.2	6174.2	6174.2	6174.2	6174.2	6174.2	6174.2	6174.2
2.5°	6170.0	6161.7	6134.8	6114.0	6109.9	6097.4	6087.1	6093.3	6101.6	6103.6	6103.6
5°	6167.9	6145.1	6109.9	6095.3	6114.0	6138.9	6170.0	6211.5	6236.4	6255.0	6267.5
7.5°	6267.5	6223.9	6184.5	6176.2	6213.6	6279.9	6350.4	6437.5	6497.7	6539.2	6547.5
10°	6433.4	6379.5	6340.1	6348.4	6414.7	6510.1	6609.7	6721.7	6812.9	6868.9	6873.1
12.5°	6624.2	6572.4	6535.0	6570.3	6680.2	6796.3	6900.0	6997.5	7080.5	7136.5	7136.5
15°	6844.0	6806.7	6763.2	6844.0	6993.4	7097.1	7140.6	7188.3	7233.9	7275.4	7267.1
17.5°	7055.6	7020.3	6997.5	7092.9	7248.5	7296.2	7267.1	7231.9	7231.9	7254.7	7258.8
20°	7238.1	7207.0	7221.5	7314.8	7395.7	7345.9	7238.1	7126.1	7080.5	7092.9	7105.4
22.5°	7397.8	7383.3	7426.8	7470.4	7412.3	7238.1	7039.0	6887.6	6831.6	6827.5	6831.6
25°	7584.4	7582.4	7636.3	7557.5	7300.3	6978.9	6711.3	6564.1	6533.0	6557.8	6599.3
27.5°	7816.7	7839.5	7866.5	7578.2	7072.2	6586.9	6315.2	6213.6	6244.7	6304.8	6344.2
30°	8113.3	8175.5	8117.5	7526.4	6744.5	6138.9	5879.7	5850.6	5935.7	6020.7	6062.2
32.5°	8401.6	8499.1	8358.0	7391.6	6321.4	5664.0	5462.8	5454.5	5558.2	5641.2	5699.2
35°	8633.9	8826.7	8538.5	7124.0	5832.0	5226.4	5079.1	5023.1	5060.4	5157.9	5224.3
37.5°	8936.7	9258.1	8662.9	6715.5	5301.0	4865.5	4693.4	4564.8	4531.6	4571.0	4604.2
40°	9490.4	9915.6	8721.0	6145.1	4782.5	4504.6	4330.4	4141.7	4011.0	3915.6	3917.7
42.5°	10394.7	10772.1	8683.6	5452.4	4303.5	4152.1	3955.0	3737.3	3525.7	3310.0	3293.4
45°	11863.0	12045.5	8571.6	4718.2	3882.4	3782.9	3598.3	3380.5	3098.5	2853.8	2830.9
47.5°	14212.8	13808.4	8397.4	4077.4	3511.2	3469.7	3299.7	3048.7	2750.1	2553.0	2536.4
50°	17417.1	16353.1	8312.4	3567.2	3183.5	3196.0	3057.0	2791.5	2509.5	2364.3	2347.7
52.5°	21249.7	19316.8	8476.2	3173.1	2920.1	2963.7	2860.0	2611.1	2374.7	2260.6	2244.0
55°	25225.5	22386.2	8652.5	2886.9	2671.3	2756.3	2721.0	2515.7	2302.1	2196.3	2181.8
57.5°	28628.8	24678.0	8300.0	2654.7	2449.3	2582.1	2613.2	2455.6	2264.8	2169.4	2152.8
60°	30771.2	25600.9	7375.0	2436.9	2273.1	2443.1	2551.0	2439.0	2279.3	2271.0	2258.5
62.5°	31787.5	25520.0	5987.5	2264.8	2163.1	2383.0	2596.6	2532.3	2445.2	2519.9	2526.1
65°	31331.2	24300.5	4459.0	2150.7	2084.3	2405.8	2733.5	2708.6	2492.9	2567.6	2577.9
67.5°	28328.1	21390.7	3301.7	2051.1	1997.2	2470.1	2982.3	2766.7	2399.6	2453.5	2420.3
70°	22896.4	16958.7	2546.8	1939.1	1908.0	2461.8	3094.3	2731.4	2297.9	2310.4	2221.2
72.5°	15789.0	11564.4	2071.9	1835.4	1779.5	2244.0	3015.5	2644.3	2212.9	2117.5	1999.3
75°	8586.2	6207.3	1760.8	1727.6	1553.4	1970.3	2870.4	2582.1	2136.2	2009.7	1943.3
77.5°	3378.5	2575.8	1528.5	1580.4	1358.4	1740.0	2708.6	2463.9	2030.4	1864.5	1831.3
80°	1379.2	1314.9	1267.2	1366.7	1167.6	1522.3	2513.6	2324.9	1903.9	1729.7	1663.3
82.5°	781.9	817.1	985.1	1078.5	947.8	1402.0	2420.3	2212.9	1752.5	1549.2	1470.4
85°	400.3	479.1	686.5	773.6	696.8	1192.5	2229.5	1937.1	1406.1	1186.3	1192.5
87.5°	192.9	267.5	433.5	485.3	452.1	862.8	1665.4	1404.1	1095.0	866.9	840.0
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)