

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: P317691

Luminaire Tested: **GAN-SA7C-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317691
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-SA7C-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42778 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 391
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

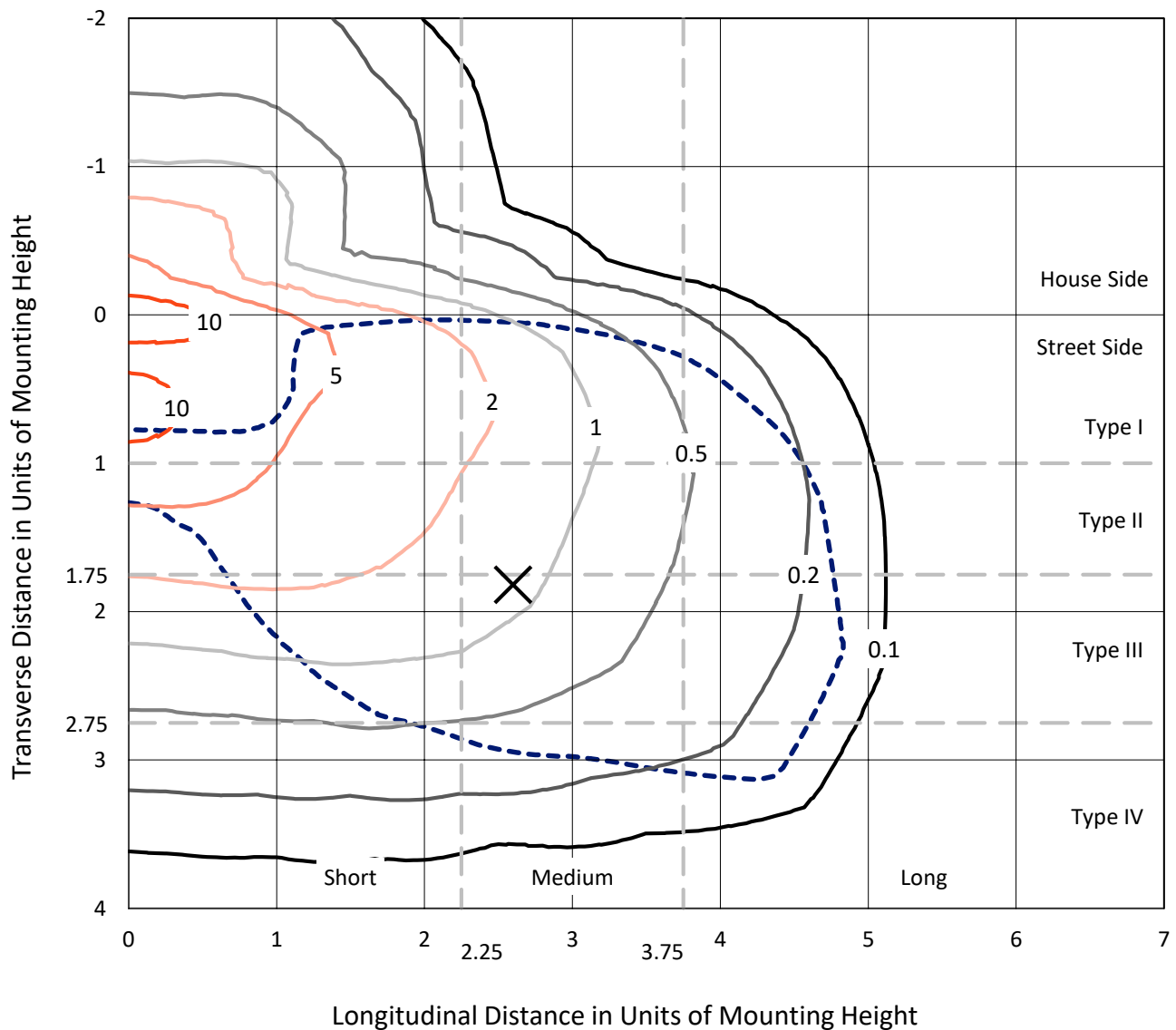


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Iso-Footcandle Lines of Horizontal Illumination

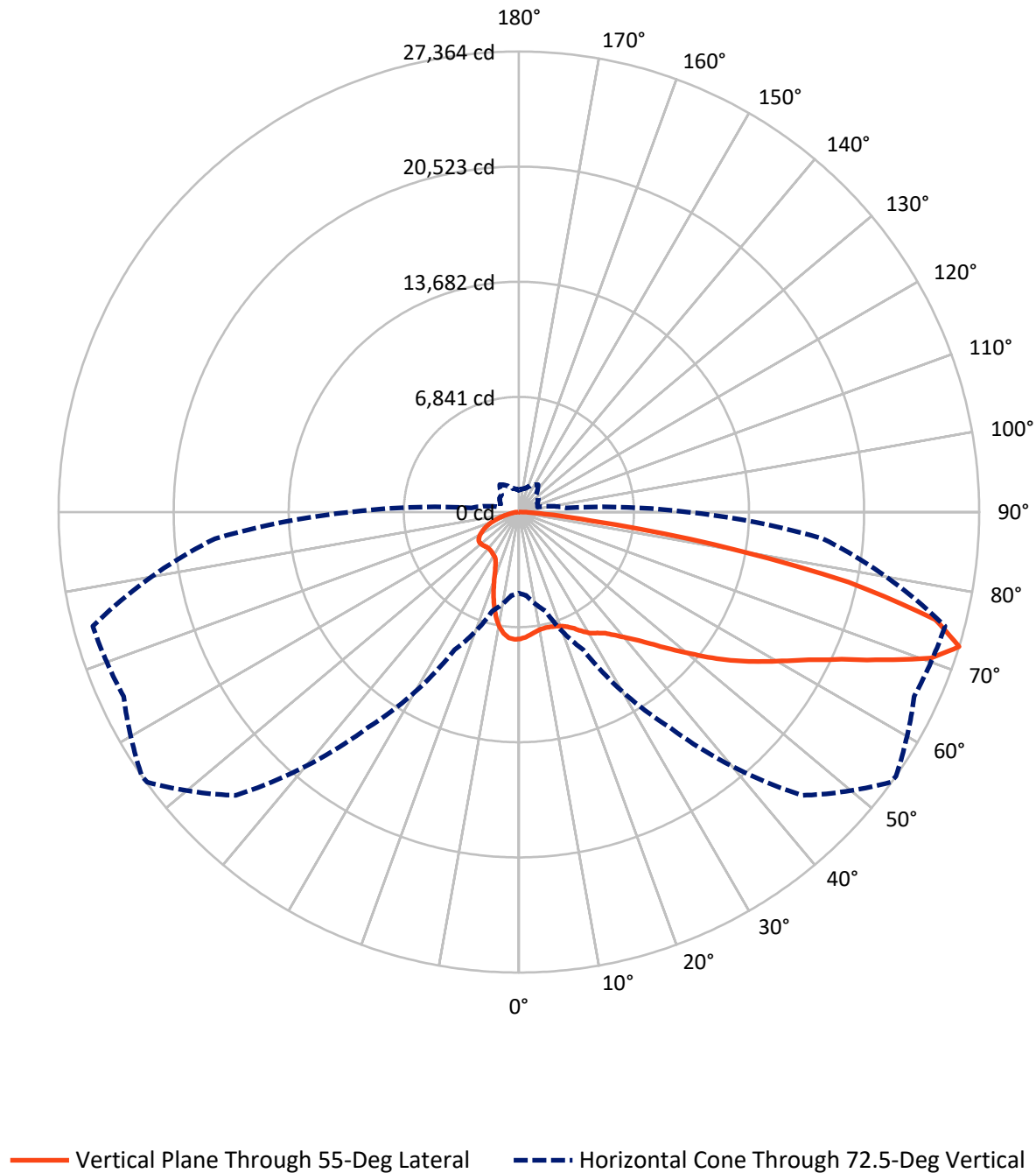
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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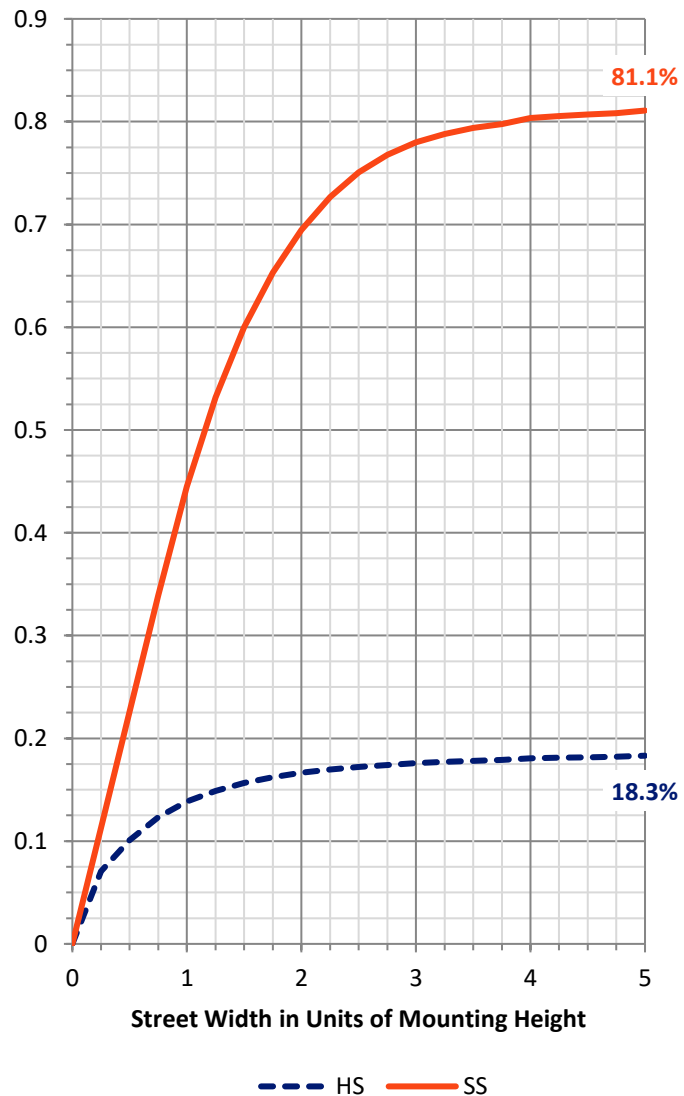
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7951.0	0.0	7951.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	34827.0	0.0	34827.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	42778.0	0.0	42778.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	682.7	1.6
10°-20°	1817.7	4.2
20°-30°	2997.0	7.0
30°-40°	4433.3	10.4
40°-50°	6187.9	14.5
50°-60°	8056.8	18.8
60°-70°	9901.6	23.1
70°-80°	7761.7	18.1
80°-90°	939.3	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°	42778.0	100.0
0°-180°	42778.0	100.0

Coefficient of Utilization



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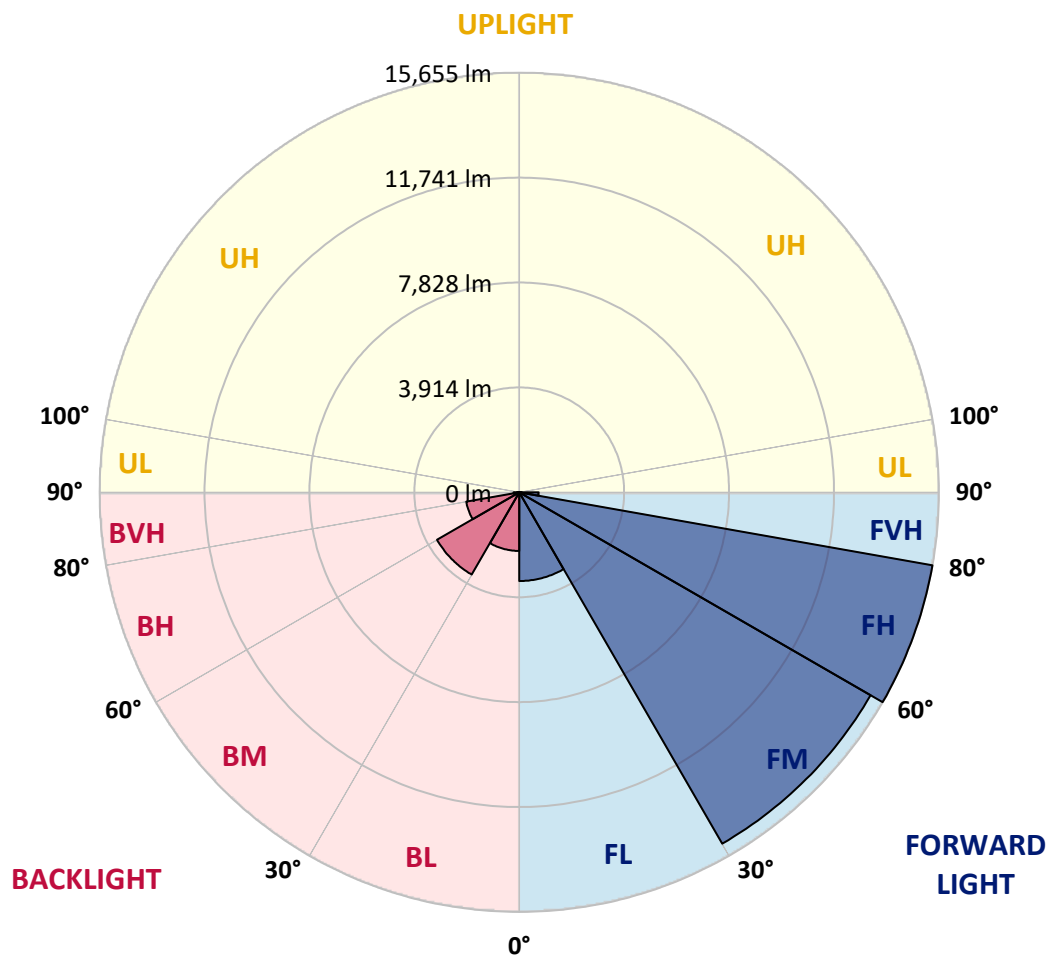
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3309.8	7.7			
FM	(30°-60°)	15135.7	35.4			
FH	(60°-80°)	15655.3	36.6			G5
FVH	(80°-90°)	726.2	1.7			G4/750
BL	(0°-30°)	2187.7	5.1	B3/2500		
BM	(30°-60°)	3542.3	8.3	B3/5000		
BH	(60°-80°)	2008.0	4.7	B3/2500		G3/2500
BVH	(80°-90°)	213.1	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7545.1	7545.1	7545.1	7545.1	7545.1	7545.1	7545.1	7545.1	7545.1	7545.1	7545.1
2.5°	7299.5	7282.2	7303.8	7334.2	7367.4	7412.2	7438.2	7449.8	7494.5	7511.9	7549.5
5°	6961.4	6952.7	6988.8	7040.9	7114.5	7218.6	7302.4	7318.3	7436.8	7520.6	7597.1
7.5°	6715.8	6715.8	6757.7	6819.8	6902.2	7042.3	7160.8	7182.5	7383.3	7563.9	7705.5
10°	6520.7	6527.9	6577.1	6650.7	6747.5	6896.4	7053.9	7078.4	7368.8	7665.0	7890.4
12.5°	6390.7	6408.0	6452.8	6519.3	6639.2	6819.8	7019.2	7052.4	7399.2	7809.5	8113.0
15°	6473.0	6501.9	6506.3	6533.7	6600.2	6796.7	7039.4	7074.1	7464.2	7956.9	8365.8
17.5°	6834.2	6844.4	6799.6	6741.8	6710.0	6835.7	7100.1	7136.2	7542.2	8102.8	8608.5
20°	7383.3	7377.5	7280.7	7124.7	6962.8	6983.1	7199.8	7237.4	7647.7	8231.4	8851.3
22.5°	8076.8	8056.6	7907.8	7620.3	7344.3	7228.7	7374.6	7406.4	7806.6	8414.9	9111.4
25°	8917.7	8873.0	8676.5	8290.7	7884.7	7587.0	7637.6	7667.9	8037.8	8620.1	9349.8
27.5°	9804.9	9760.1	9510.1	9043.5	8503.1	8039.3	8000.3	8026.3	8300.8	8771.8	9526.0
30°	10732.5	10684.8	10456.5	9933.5	9159.0	8507.4	8338.4	8348.5	8485.7	8854.2	9670.5
32.5°	11664.4	11619.7	11363.9	10757.1	9871.4	9010.2	8582.5	8569.5	8597.0	8939.4	9833.8
35°	12609.4	12626.7	12327.6	11655.8	10660.3	9569.4	8871.5	8844.1	8783.4	9114.2	10065.0
37.5°	13620.8	13609.2	13222.0	12519.8	11485.3	10176.2	9286.2	9281.9	9072.3	9445.1	10427.6
40°	14297.0	14304.2	14068.7	13404.1	12319.0	10848.1	9817.9	9807.8	9533.3	9940.7	10903.0
42.5°	14561.4	14609.1	14669.8	14247.9	13191.7	11626.9	10452.2	10437.8	10176.2	10651.6	11462.2
45°	14580.2	14675.6	15051.2	14997.8	14075.9	12518.4	11262.8	11222.3	11034.5	11596.5	12129.7
47.5°	14418.4	14516.6	15140.8	15444.2	14866.3	13459.0	12210.6	12178.8	12017.0	12778.4	12852.1
50°	14064.4	14158.3	14955.9	15662.4	15516.5	14363.5	13302.9	13219.1	13132.4	14143.8	13678.6
52.5°	13401.2	13581.8	14708.8	15714.4	15905.1	15166.8	14451.6	14396.7	14444.4	15584.4	14506.5
55°	11830.6	12032.9	14071.6	15671.1	16192.7	15841.6	15600.3	15597.4	15844.5	17095.7	15395.1
57.5°	10950.7	11093.7	12774.1	15597.4	16533.7	16512.0	16737.4	16764.8	17246.0	18741.4	16325.6
60°	10453.6	10603.9	12116.7	15324.3	17062.5	17378.9	17897.6	17952.5	18670.6	20563.4	17445.4
62.5°	10001.4	10166.1	11709.2	14768.0	17685.2	18618.6	19287.6	19336.7	20179.1	22436.0	18527.6
65°	9228.4	9414.8	11112.5	14402.5	18251.6	20235.4	21054.7	21087.9	21911.5	24398.1	19355.5
67.5°	8136.1	8306.6	9987.0	13594.8	18670.6	22199.0	23404.0	23422.8	23629.4	25783.7	19778.8
70°	6860.2	6925.3	8383.1	11927.4	18175.0	24035.4	25978.8	25983.1	25195.7	26670.9	19709.5
72.5°	4820.1	4973.2	6085.8	9029.0	15619.1	23811.5	27315.3	27364.4	25923.9	26223.0	18134.6
75°	2956.2	3118.0	3817.4	5471.7	9908.9	18727.0	25237.6	25578.6	24558.5	23380.9	14814.3
77.5°	1976.6	2037.3	2491.0	3190.3	4489.2	10774.4	19403.2	20044.7	20401.6	17050.9	9474.0
80°	1102.4	1218.0	1651.5	1982.4	1996.8	4281.2	11634.1	11784.4	11350.9	6789.5	2923.0
82.5°	583.7	647.3	1102.4	1164.6	1089.4	1433.3	4336.1	4340.4	3626.6	1820.5	868.4
85°	452.2	505.7	755.7	710.9	556.3	635.7	1430.4	1508.4	1233.9	745.6	283.2
87.5°	225.4	280.3	512.9	450.8	218.2	182.1	511.5	546.2	486.9	291.9	102.6
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°	7545.1	7545.1	7545.1	7545.1	7545.1	7545.1	7545.1	7545.1	7545.1	7545.1	7545.1
2.5°	7563.9	7576.9	7592.8	7575.5	7569.7	7546.6	7507.6	7498.9	7478.7	7480.1	7491.7
5°	7630.4	7652.0	7643.4	7576.9	7497.4	7386.2	7270.6	7172.3	7107.3	7103.0	7098.7
7.5°	7757.5	7772.0	7704.1	7514.8	7292.3	7035.1	6792.3	6579.9	6451.4	6419.6	6412.3
10°	7956.9	7954.0	7767.6	7386.2	6942.6	6483.1	6093.0	5798.3	5626.3	5575.8	5562.8
12.5°	8179.4	8146.2	7789.3	7152.1	6448.5	5811.3	5317.1	4989.1	4810.0	4752.2	4737.7
15°	8409.2	8326.8	7735.8	6802.5	5841.6	5087.4	4568.7	4265.3	4168.5	4136.7	4130.9
17.5°	8623.0	8464.1	7582.7	6328.5	5149.5	4366.4	3961.8	3840.5	3863.6	3905.5	3906.9
20°	8832.5	8556.5	7337.1	5730.4	4419.9	3772.6	3635.3	3724.9	3834.7	3919.9	3931.5
22.5°	9039.1	8621.5	7020.6	5039.7	3766.8	3438.8	3535.6	3698.9	3824.6	3917.0	3932.9
25°	9212.5	8637.4	6584.3	4302.8	3313.1	3313.1	3487.9	3642.5	3766.8	3857.8	3873.7
27.5°	9276.1	8530.5	5968.8	3620.8	3084.8	3255.3	3421.5	3550.0	3655.5	3752.3	3769.7
30°	9300.6	8332.6	5257.9	3073.2	2990.9	3193.2	3331.9	3441.7	3541.4	3632.4	3648.3
32.5°	9305.0	8094.2	4503.7	2762.6	2925.9	3128.1	3220.6	3317.4	3424.3	3460.5	3466.2
35°	9332.4	7812.4	3709.0	2603.7	2865.2	3067.5	3141.2	3210.5	3037.1	3050.1	3061.7
37.5°	9411.9	7533.6	3044.3	2514.1	2826.2	3035.7	3123.8	2872.4	2736.6	2704.8	2700.5
40°	9560.7	7235.9	2551.6	2441.8	2811.7	3051.6	3012.6	2681.7	2447.6	2272.8	2246.8
42.5°	9767.3	6915.2	2236.7	2394.2	2821.8	3128.1	2858.0	2498.2	2109.5	1996.8	1982.4
45°	10000.0	6578.5	2066.2	2360.9	2856.5	3187.4	2826.2	2254.0	1952.0	1866.8	1859.5
47.5°	10225.4	6166.7	1978.0	2346.5	2904.2	3139.7	2691.8	2178.9	1876.9	1832.1	1836.4
50°	10484.0	5795.4	1924.6	2330.6	2946.1	3109.4	2540.1	2139.9	1848.0	1902.9	1960.7
52.5°	10702.2	5411.0	1876.9	2298.8	2962.0	3055.9	2501.1	2147.1	1848.0	1953.5	2008.4
55°	10960.8	5120.6	1822.0	2232.3	2931.6	2904.2	2473.6	2190.4	1869.7	1803.2	1809.0
57.5°	11294.6	5025.3	1761.3	2128.3	2830.5	2683.1	2460.6	2232.3	1856.7	1814.8	1829.2
60°	11756.9	5126.4	1736.7	1992.5	2673.0	2509.7	2462.1	2210.7	1765.6	1693.4	1694.8
62.5°	12197.6	5239.1	1735.3	1907.2	2479.4	2355.1	2428.8	2139.9	1719.4	1677.5	1693.4
65°	12342.1	5125.0	1665.9	1811.9	2261.2	2170.2	2368.1	2064.7	1684.7	1621.1	1618.3
67.5°	12148.5	4771.0	1525.8	1657.3	2011.3	1954.9	2288.7	1975.1	1629.8	1577.8	1569.1
70°	11573.4	3980.6	1352.4	1453.5	1726.6	1712.2	2163.0	1871.1	1556.1	1511.3	1473.8
72.5°	10026.0	2836.3	1140.0	1209.4	1405.9	1452.1	1989.6	1735.3	1452.1	1355.3	1297.5
75°	8234.3	2099.4	936.3	950.7	1067.8	1193.5	1751.2	1576.4	1329.3	1164.6	1119.8
77.5°	5042.6	1284.5	745.6	751.3	765.8	952.2	1442.0	1398.6	1173.2	971.0	939.2
80°	1632.7	700.8	538.9	566.4	523.0	697.9	1115.4	1190.6	1007.1	812.0	777.3
82.5°	621.3	408.9	364.1	382.9	362.7	468.1	813.5	953.6	825.0	667.5	543.3
85°	300.5	231.2	215.3	241.3	224.0	239.8	520.2	702.2	625.6	434.9	404.6
87.5°	106.9	102.6	82.4	111.3	95.4	85.2	158.9	354.0	413.2	299.1	267.3
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)