

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: P317684

Luminaire Tested: **GAN-SA0B-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317684
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-SA0B-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48364 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 419
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

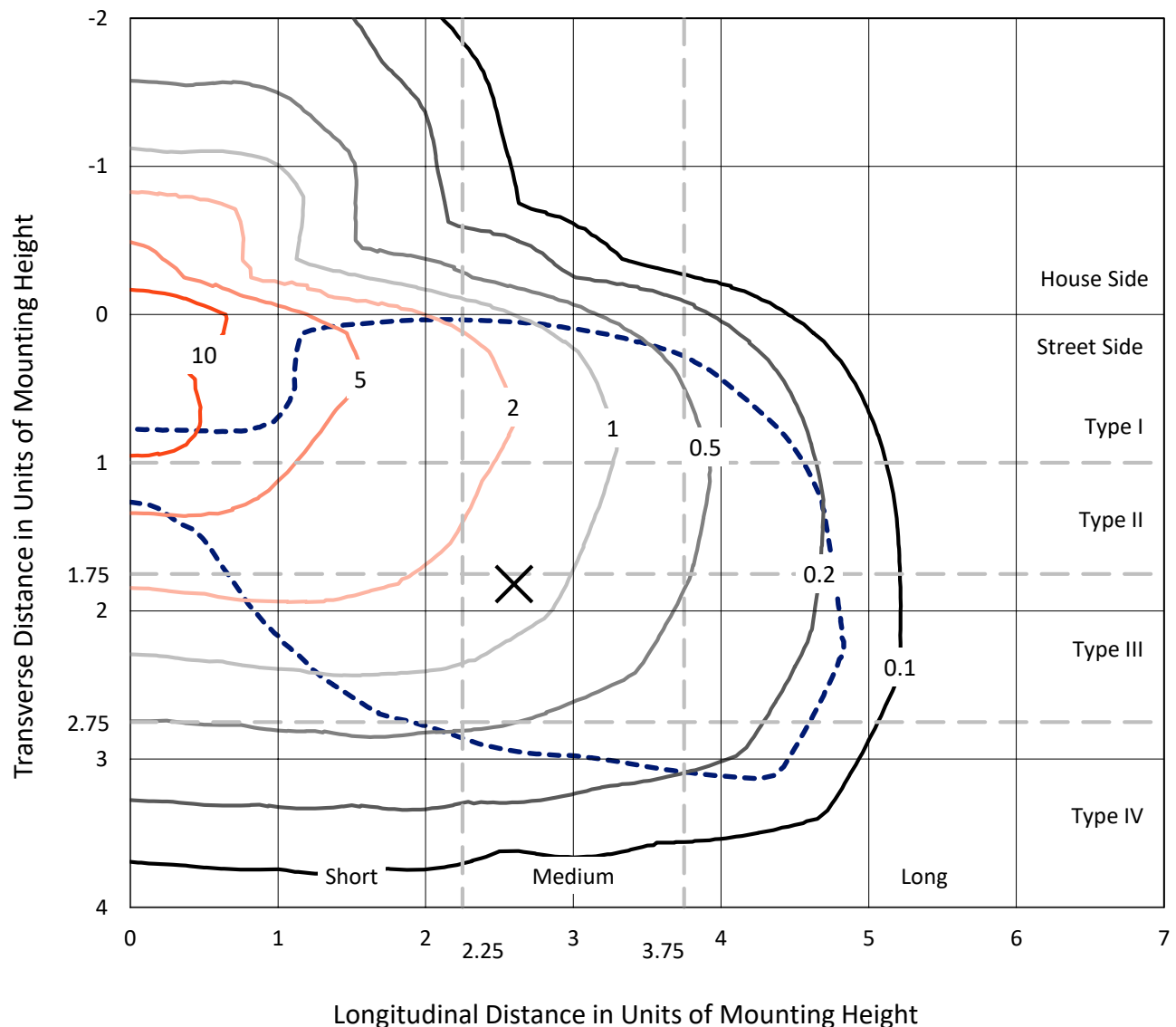


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Iso-Footcandle Lines of Horizontal Illumination

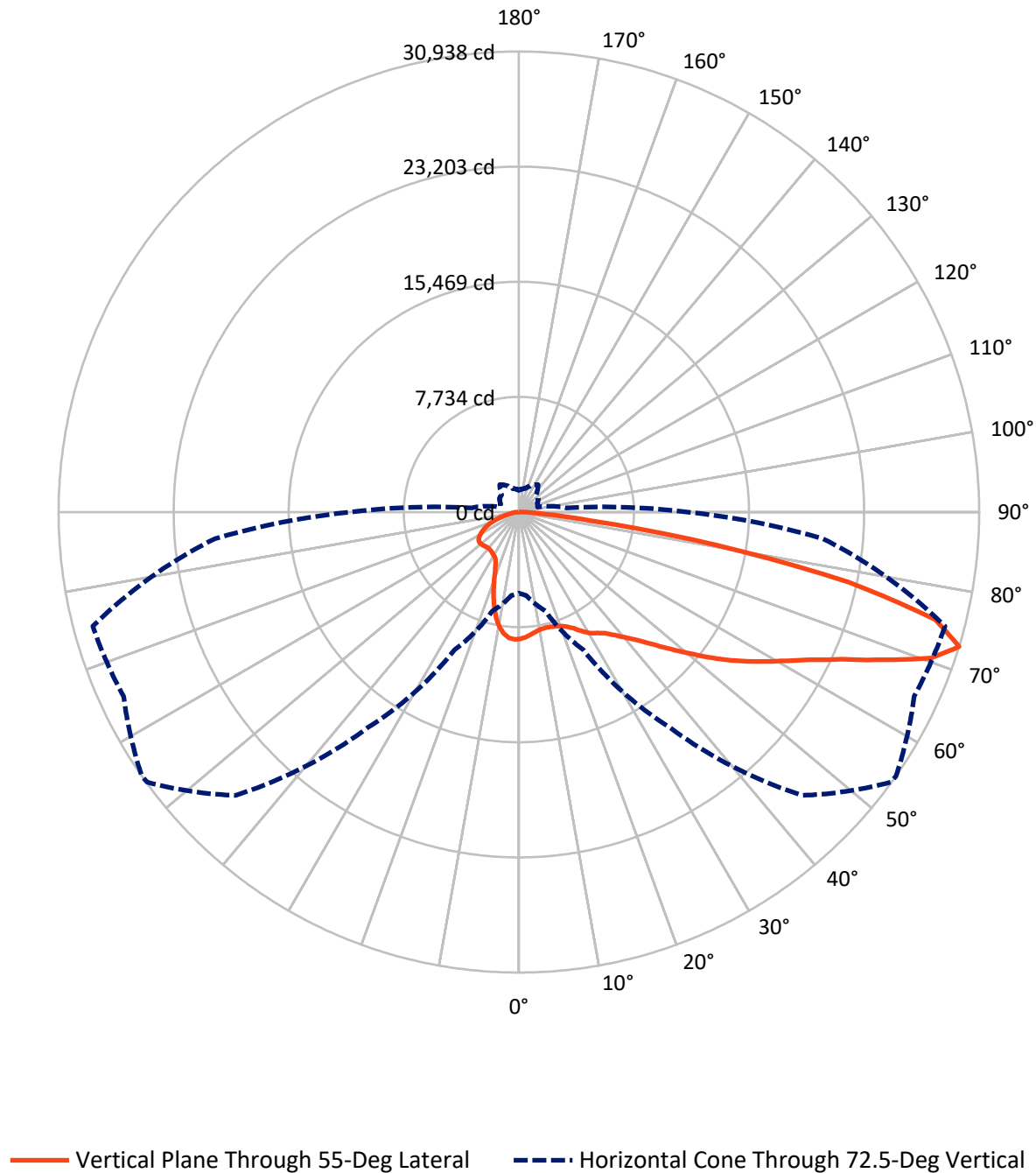
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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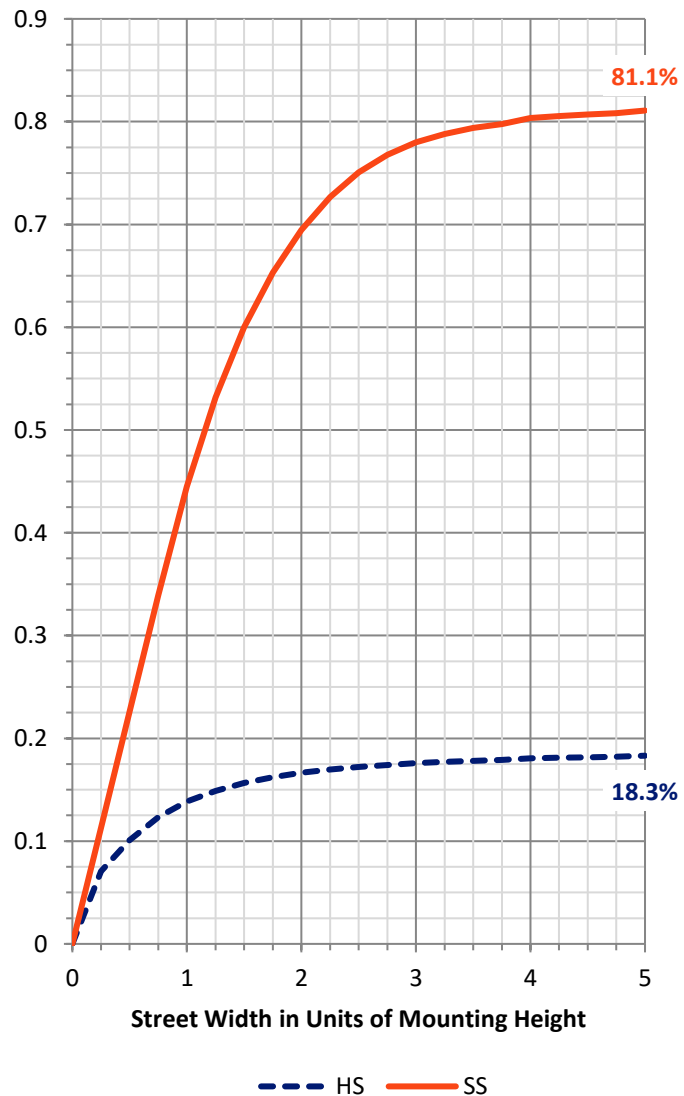
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8989.3	0.0	8989.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	39374.7	0.0	39374.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	48364.0	0.0	48364.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	771.9	1.6
10°-20°	2055.1	4.2
20°-30°	3388.3	7.0
30°-40°	5012.2	10.4
40°-50°	6995.9	14.5
50°-60°	9108.9	18.8
60°-70°	11194.6	23.1
70°-80°	8775.2	18.1
80°-90°	1061.9	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°	48364.0	100.0
0°-180°	48364.0	100.0

Coefficient of Utilization



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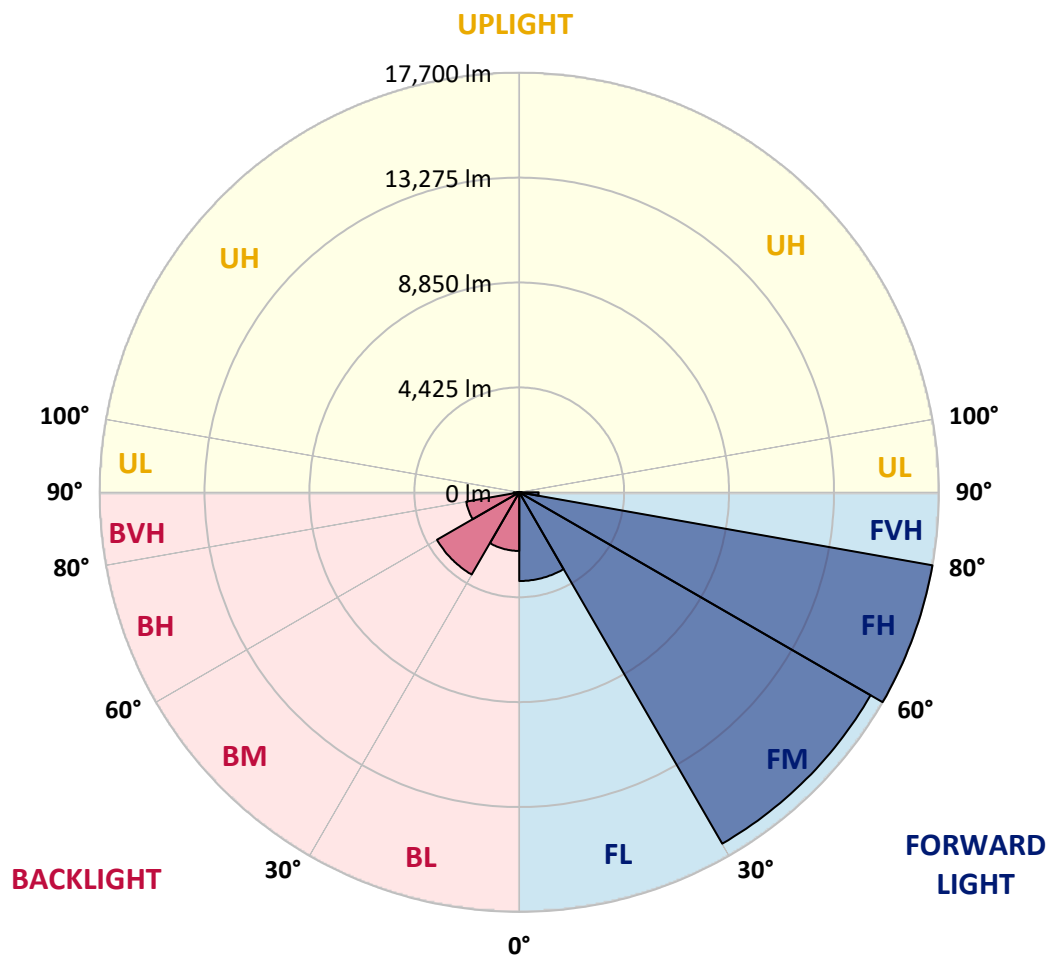
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3742.0	7.7			
FM	(30°-60°)	17112.1	35.4			
FH	(60°-80°)	17699.6	36.6			G5
FVH	(80°-90°)	821.0	1.7			G5
BL	(0°-30°)	2473.3	5.1	B3/2500		
BM	(30°-60°)	4004.9	8.3	B3/5000		
BH	(60°-80°)	2270.2	4.7	B3/2500		G3/2500
BVH	(80°-90°)	240.9	0.5			G3/500
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°	8530.4	8530.4	8530.4	8530.4	8530.4	8530.4	8530.4	8530.4	8530.4	8530.4	8530.4
2.5°	8252.7	8233.1	8257.6	8291.9	8329.4	8380.1	8409.5	8422.6	8473.2	8492.8	8535.3
5°	7870.4	7860.6	7901.5	7960.3	8043.6	8161.2	8255.9	8273.9	8407.9	8502.6	8589.2
7.5°	7592.7	7592.7	7640.1	7710.3	7803.4	7961.9	8095.8	8120.3	8347.4	8551.6	8711.7
10°	7372.2	7380.4	7435.9	7519.2	7628.7	7796.9	7975.0	8002.7	8331.1	8666.0	8920.8
12.5°	7225.2	7244.8	7295.4	7370.6	7506.1	7710.3	7935.8	7973.3	8365.4	8829.3	9172.4
15°	7318.3	7350.9	7355.9	7386.9	7462.0	7684.2	7958.6	7997.8	8438.9	8995.9	9458.2
17.5°	7726.7	7738.1	7687.5	7622.1	7586.2	7728.3	8027.2	8068.1	8527.1	9160.9	9732.7
20°	8347.4	8340.9	8231.4	8055.0	7872.1	7894.9	8140.0	8182.4	8646.4	9306.3	10007.1
22.5°	9131.5	9108.6	8940.4	8615.3	8303.3	8172.6	8337.6	8373.5	8826.0	9513.8	10301.1
25°	10082.2	10031.6	9809.4	9373.3	8914.3	8577.7	8634.9	8669.2	9087.4	9745.7	10570.7
27.5°	11085.2	11034.6	10752.0	10224.4	9613.4	9089.0	9044.9	9074.3	9384.7	9917.2	10770.0
30°	12134.0	12080.1	11822.0	11230.6	10355.0	9618.3	9427.2	9438.6	9593.8	10010.4	10933.3
32.5°	13187.6	13137.0	12847.8	12161.7	11160.4	10186.8	9703.3	9688.6	9719.6	10106.7	11117.9
35°	14255.9	14275.5	13937.4	13177.8	12052.3	10819.0	10030.0	9998.9	9930.3	10304.4	11379.3
37.5°	15399.4	15386.4	14948.6	14154.7	12985.0	11505.1	10498.8	10493.9	10257.0	10678.5	11789.3
40°	16163.9	16172.1	15905.8	15154.4	13927.6	12264.7	11099.9	11088.5	10778.1	11238.8	12326.7
42.5°	16462.9	16516.8	16585.4	16108.4	14914.3	13145.1	11817.1	11800.7	11505.1	12042.5	12958.9
45°	16484.1	16591.9	17016.6	16956.2	15914.0	14153.0	12733.5	12687.7	12475.4	13110.8	13713.6
47.5°	16301.1	16412.2	17117.9	17461.0	16807.5	15216.5	13805.1	13769.1	13586.2	14447.1	14530.4
50°	15900.9	16007.1	16908.8	17707.6	17542.6	16239.1	15040.0	14945.3	14847.3	15990.8	15464.8
52.5°	15151.1	15355.3	16629.5	17766.4	17982.1	17147.3	16338.7	16276.6	16330.5	17619.4	16400.8
55°	13375.5	13604.2	15909.1	17717.4	18307.1	17910.2	17637.4	17634.1	17913.4	19328.1	17405.4
57.5°	12380.6	12542.4	14442.2	17634.1	18692.6	18668.1	18923.0	18954.0	19498.0	21188.7	18457.4
60°	11818.7	11988.6	13698.9	17325.4	19290.5	19648.3	20234.7	20296.8	21108.7	23248.6	19723.4
62.5°	11307.4	11493.6	13238.2	16696.5	19994.6	21049.9	21806.2	21861.7	22814.1	25365.7	20946.9
65°	10433.4	10644.2	12563.6	16283.2	20634.9	22877.8	23804.0	23841.6	24772.7	27584.0	21883.0
67.5°	9198.5	9391.2	11291.1	15370.0	21108.7	25097.8	26460.2	26481.4	26715.0	29150.6	22361.6
70°	7756.1	7829.6	9477.8	13484.9	20548.4	27174.0	29371.1	29376.0	28485.7	30153.6	22283.2
72.5°	5449.5	5622.7	6880.5	10208.0	17658.6	26920.8	30882.2	30937.7	29309.1	29647.2	20502.6
75°	3342.2	3525.2	4315.8	6186.2	11202.8	21172.4	28533.1	28918.6	27765.4	26434.0	16748.7
77.5°	2234.7	2303.3	2816.2	3606.9	5075.4	12181.3	21936.9	22662.2	23065.6	19277.5	10711.2
80°	1246.4	1377.1	1867.1	2241.2	2257.6	4840.2	13153.3	13323.2	12833.1	7676.0	3304.7
82.5°	660.0	731.8	1246.4	1316.6	1231.7	1620.5	4902.3	4907.2	4100.2	2058.3	981.8
85°	511.3	571.7	854.3	803.7	628.9	718.8	1617.2	1705.4	1395.0	842.9	320.2
87.5°	254.8	316.9	579.9	509.7	246.7	205.8	578.3	617.5	550.5	330.0	116.0
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°	8530.4	8530.4	8530.4	8530.4	8530.4	8530.4	8530.4	8530.4	8530.4	8530.4	8530.4
2.5°	8551.6	8566.3	8584.3	8564.7	8558.1	8532.0	8487.9	8478.1	8455.2	8456.9	8469.9
5°	8626.7	8651.3	8641.5	8566.3	8476.5	8350.7	8220.0	8108.9	8035.4	8030.5	8025.6
7.5°	8770.5	8786.8	8710.1	8496.1	8244.5	7953.7	7679.3	7439.2	7293.8	7257.8	7249.7
10°	8995.9	8992.7	8781.9	8350.7	7849.2	7329.7	6888.7	6555.4	6361.0	6303.8	6289.1
12.5°	9247.5	9209.9	8806.4	8086.0	7290.5	6570.1	6011.4	5640.6	5438.1	5372.7	5356.4
15°	9507.2	9414.1	8746.0	7690.7	6604.4	5751.7	5165.3	4822.2	4712.8	4676.8	4670.3
17.5°	9749.0	9569.3	8572.8	7154.9	5822.0	4936.6	4479.2	4342.0	4368.1	4415.5	4417.1
20°	9985.9	9673.9	8295.1	6478.6	4997.0	4265.2	4110.0	4211.3	4335.4	4431.8	4444.9
22.5°	10219.5	9747.4	7937.4	5697.8	4258.7	3887.8	3997.3	4181.9	4324.0	4428.5	4446.5
25°	10415.5	9765.3	7444.1	4864.7	3745.7	3745.7	3943.4	4118.2	4258.7	4361.6	4379.5
27.5°	10487.4	9644.4	6748.2	4093.7	3487.6	3680.4	3868.2	4013.6	4132.9	4242.3	4261.9
30°	10515.1	9420.7	5944.5	3474.5	3381.4	3610.1	3767.0	3891.1	4003.8	4106.7	4124.7
32.5°	10520.0	9151.1	5091.8	3123.3	3307.9	3536.6	3641.2	3750.6	3871.5	3912.3	3918.9
35°	10551.1	8832.6	4193.3	2943.6	3239.3	3468.0	3551.3	3629.7	3433.7	3448.4	3461.5
37.5°	10640.9	8517.3	3441.9	2842.4	3195.2	3432.1	3531.7	3247.5	3093.9	3058.0	3053.1
40°	10809.2	8180.8	2884.8	2760.7	3178.9	3450.0	3405.9	3031.9	2767.2	2569.6	2540.2
42.5°	11042.8	7818.1	2528.7	2706.8	3190.3	3536.6	3231.2	2824.4	2385.0	2257.6	2241.2
45°	11305.8	7437.5	2336.0	2669.2	3229.5	3603.6	3195.2	2548.3	2206.9	2110.5	2102.4
47.5°	11560.6	6972.0	2236.3	2652.9	3283.4	3549.7	3043.3	2463.4	2122.0	2071.3	2076.2
50°	11853.0	6552.1	2175.9	2634.9	3330.8	3515.4	2871.8	2419.3	2089.3	2151.4	2216.7
52.5°	12099.7	6117.6	2122.0	2599.0	3348.8	3454.9	2827.7	2427.4	2089.3	2208.6	2270.6
55°	12392.1	5789.3	2059.9	2523.8	3314.5	3283.4	2796.6	2476.5	2113.8	2038.7	2045.2
57.5°	12769.4	5681.5	1991.3	2406.2	3200.1	3033.5	2781.9	2523.8	2099.1	2051.7	2068.1
60°	13292.2	5795.8	1963.5	2252.7	3022.1	2837.5	2783.6	2499.3	1996.2	1914.5	1916.1
62.5°	13790.4	5923.2	1961.9	2156.3	2803.2	2662.7	2746.0	2419.3	1943.9	1896.5	1914.5
65°	13953.7	5794.2	1883.5	2048.5	2556.5	2453.6	2677.4	2334.3	1904.7	1832.8	1829.6
67.5°	13734.8	5394.0	1725.0	1873.7	2273.9	2210.2	2587.5	2233.1	1842.6	1783.8	1774.0
70°	13084.7	4500.4	1529.0	1643.3	1952.1	1935.8	2445.4	2115.4	1759.3	1708.7	1666.2
72.5°	11335.2	3206.6	1288.9	1367.3	1589.4	1641.7	2249.4	1961.9	1641.7	1532.3	1466.9
75°	9309.6	2373.5	1058.5	1074.9	1207.2	1349.3	1979.9	1782.2	1502.9	1316.6	1266.0
77.5°	5701.1	1452.2	842.9	849.4	865.8	1076.5	1630.3	1581.3	1326.4	1097.7	1061.8
80°	1845.9	792.3	609.3	640.3	591.3	789.0	1261.1	1346.0	1138.6	918.1	878.8
82.5°	702.4	462.3	411.7	432.9	410.0	529.3	919.7	1078.1	932.8	754.7	614.2
85°	339.8	261.4	243.4	272.8	253.2	271.2	588.1	793.9	707.3	491.7	457.4
87.5°	120.9	116.0	93.1	125.8	107.8	96.4	179.7	400.2	467.2	338.1	302.2
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)