

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: P317702

Luminaire Tested: **GAN-SA8D-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317702
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-SA8D-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 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: 53171 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 511
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

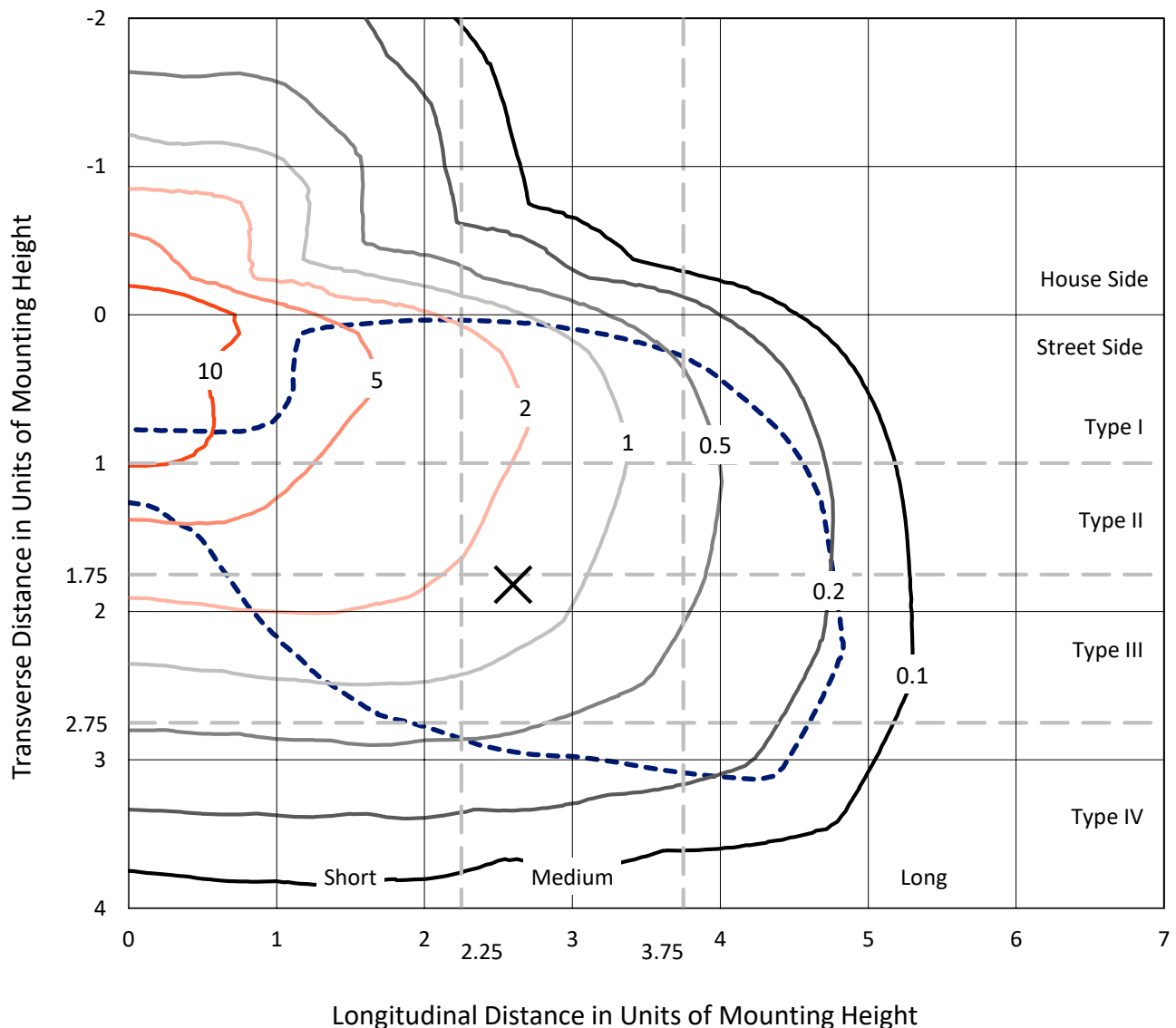


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Iso-Footcandle Lines of Horizontal Illumination

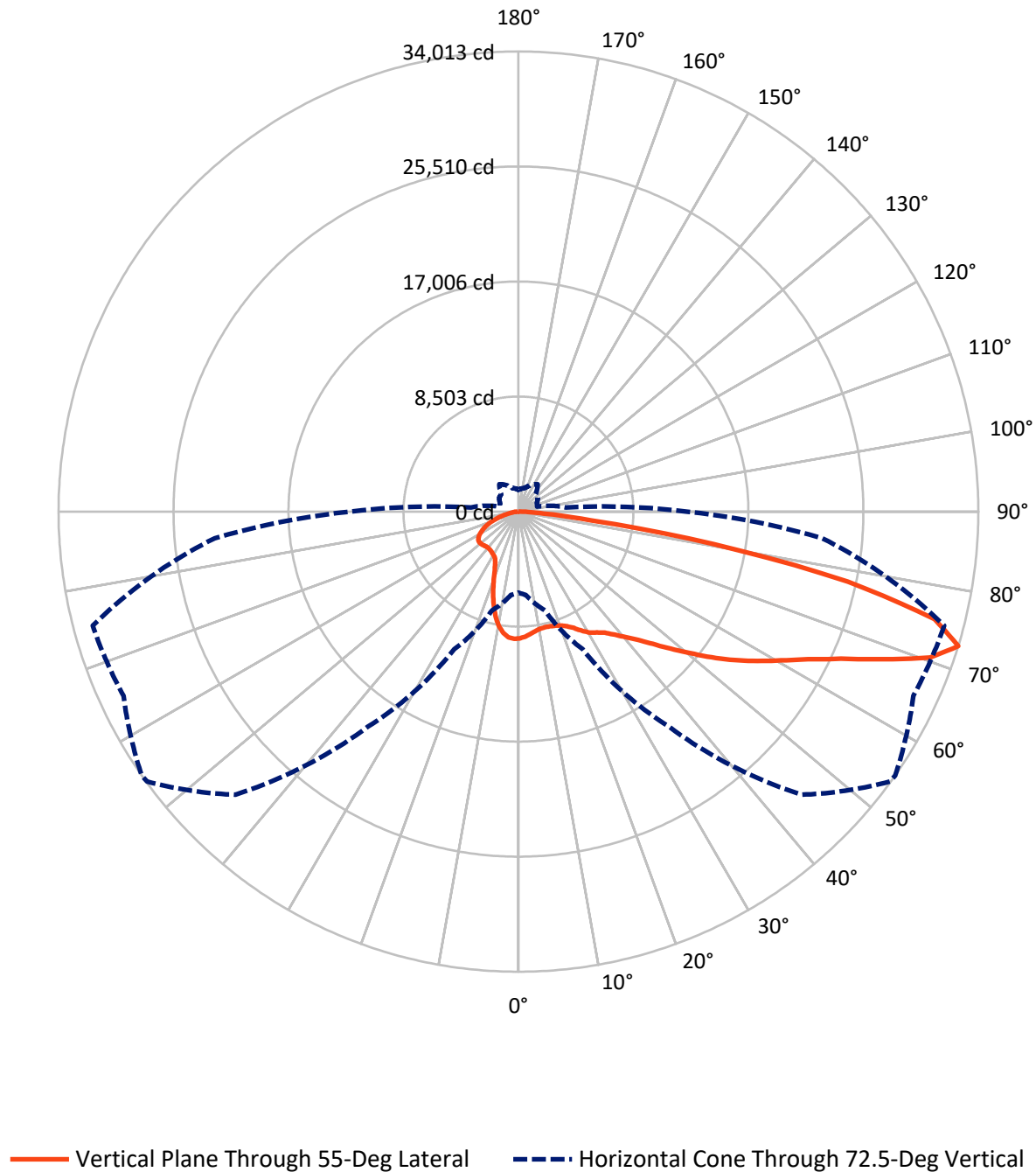
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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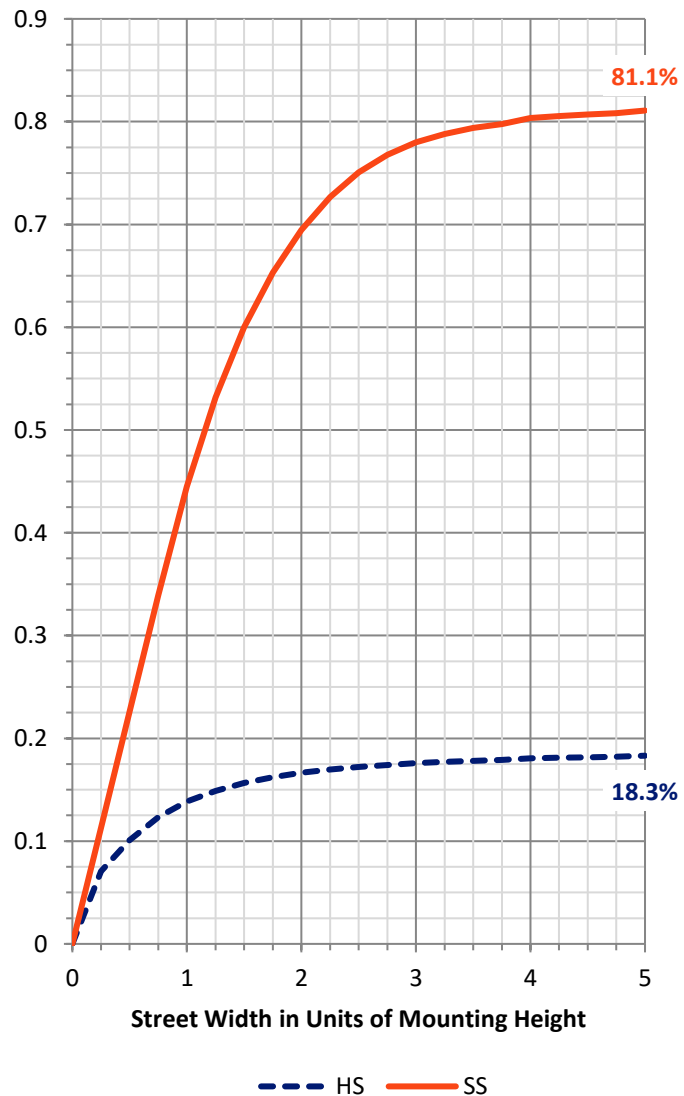
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9882.8	0.0	9882.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	43288.2	0.0	43288.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	53171.0	0.0	53171.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	848.6	1.6
10°-20°	2259.3	4.2
20°-30°	3725.1	7.0
30°-40°	5510.3	10.4
40°-50°	7691.3	14.5
50°-60°	10014.3	18.8
60°-70°	12307.2	23.1
70°-80°	9647.4	18.1
80°-90°	1167.5	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°	53171.0	100.0
0°-180°	53171.0	100.0

Coefficient of Utilization



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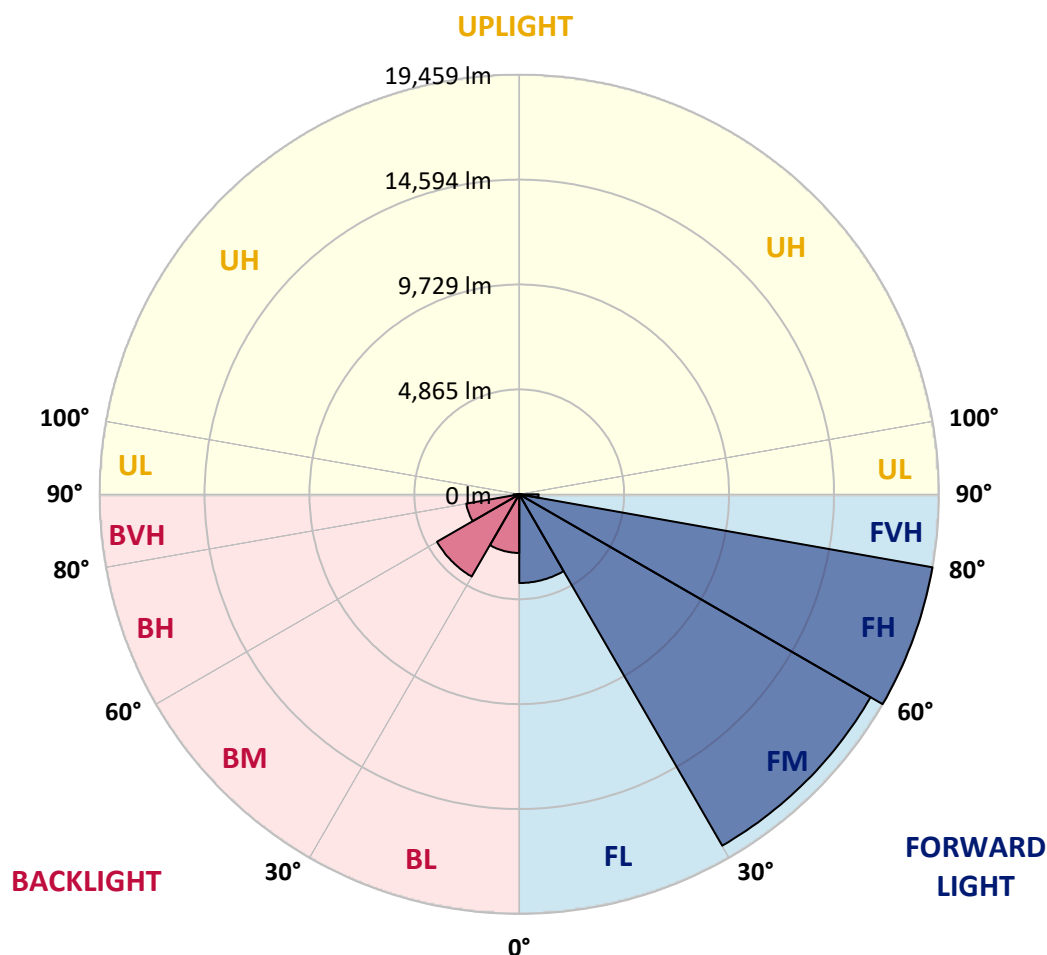
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4113.9	7.7			
FM	(30°-60°)	18812.9	35.4			
FH	(60°-80°)	19458.8	36.6			G5
FVH	(80°-90°)	902.6	1.7			G5
BL	(0°-30°)	2719.2	5.1	B4/5000		
BM	(30°-60°)	4402.9	8.3	B3/5000		
BH	(60°-80°)	2495.8	4.7	B3/2500		G3/2500
BVH	(80°-90°)	264.8	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°	9378.2	9378.2	9378.2	9378.2	9378.2	9378.2	9378.2	9378.2	9378.2	9378.2	9378.2
2.5°	9072.9	9051.4	9078.3	9116.0	9157.3	9213.0	9245.3	9259.7	9315.4	9336.9	9383.6
5°	8652.7	8641.9	8686.8	8751.4	8843.0	8972.3	9076.5	9096.3	9243.5	9347.7	9442.9
7.5°	8347.4	8347.4	8399.5	8476.7	8579.0	8753.2	8900.5	8927.4	9177.1	9401.6	9577.6
10°	8104.9	8113.9	8175.0	8266.6	8386.9	8571.9	8767.6	8798.1	9159.1	9527.3	9807.4
12.5°	7943.3	7964.8	8020.5	8103.1	8252.2	8476.7	8724.5	8765.8	9196.8	9706.9	10084.0
15°	8045.7	8081.6	8087.0	8121.1	8203.7	8447.9	8749.7	8792.8	9277.6	9890.1	10398.3
17.5°	8494.6	8507.2	8451.5	8379.7	8340.2	8496.4	8825.1	8870.0	9374.6	10071.4	10700.0
20°	9177.1	9169.9	9049.6	8855.6	8654.5	8679.6	8949.0	8995.7	9505.7	10231.3	11001.7
22.5°	10039.1	10014.0	9829.0	9471.6	9128.6	8984.9	9166.3	9205.8	9703.3	10459.4	11325.0
25°	11084.3	11028.7	10784.4	10304.9	9800.3	9430.3	9493.2	9530.9	9990.6	10714.4	11621.3
27.5°	12187.0	12131.3	11820.7	11240.6	10568.9	9992.4	9943.9	9976.3	10317.5	10902.9	11840.4
30°	13340.0	13280.7	12997.0	12346.9	11384.2	10574.3	10364.2	10376.7	10547.4	11005.3	12020.0
32.5°	14498.3	14442.7	14124.8	13370.5	12269.6	11199.3	10667.7	10651.5	10685.6	11111.3	12222.9
35°	15672.9	15694.4	15322.7	14487.6	13250.2	11894.3	11026.9	10992.7	10917.3	11328.6	12510.3
37.5°	16930.0	16915.6	16434.3	15561.5	14275.7	12648.6	11542.3	11536.9	11276.5	11739.8	12961.1
40°	17770.5	17779.5	17486.7	16660.6	15311.9	13483.7	12203.2	12190.6	11849.4	12355.8	13551.9
42.5°	18099.1	18158.4	18233.8	17709.4	16396.6	14451.7	12991.6	12973.6	12648.6	13239.4	14246.9
45°	18122.5	18241.0	18708.0	18641.5	17495.7	15559.7	13999.1	13948.8	13715.3	14413.9	15076.6
47.5°	17921.3	18043.5	18819.3	19196.4	18478.1	16728.9	15177.2	15137.7	14936.5	15883.0	15974.6
50°	17481.3	17598.1	18589.4	19467.6	19286.2	17853.1	16534.9	16430.7	16323.0	17580.1	17001.8
52.5°	16657.0	16881.5	18282.3	19532.3	19769.3	18851.6	17962.7	17894.4	17953.7	19370.6	18030.9
55°	14704.9	14956.3	17490.3	19478.4	20126.7	19690.3	19390.4	19386.8	19693.9	21249.2	19135.4
57.5°	13611.2	13789.0	15877.6	19386.8	20550.6	20523.6	20803.8	20837.9	21435.9	23294.7	20291.9
60°	12993.4	13180.2	15060.5	19047.4	21207.9	21601.2	22245.9	22314.1	23206.7	25559.3	21683.8
62.5°	12431.3	12636.0	14554.0	18356.0	21981.9	23142.0	23973.5	24034.6	25081.6	27886.8	23028.9
65°	11470.5	11702.1	13812.3	17901.6	22685.9	25151.7	26169.9	26211.2	27234.9	30325.7	24058.0
67.5°	10112.7	10324.7	12413.3	16897.7	23206.7	27592.3	29090.1	29113.4	29370.2	32047.9	24584.2
70°	8527.0	8607.8	10419.8	14825.2	22590.7	29874.9	32290.4	32295.8	31317.0	33150.6	24498.0
72.5°	5991.1	6181.5	7564.4	11222.6	19413.7	29596.5	33951.6	34012.7	32222.1	32593.9	22540.4
75°	3674.4	3875.6	4744.8	6801.1	12316.3	23276.7	31369.1	31792.9	30525.0	29061.3	18413.4
77.5°	2456.8	2532.2	3096.1	3965.4	5579.9	13392.1	24117.2	24914.6	25358.2	21193.5	11775.8
80°	1370.3	1513.9	2052.7	2464.0	2481.9	5321.3	14460.6	14647.4	14108.6	8439.0	3633.1
82.5°	725.5	804.6	1370.3	1447.5	1354.1	1781.5	5389.5	5394.9	4507.7	2262.8	1079.3
85°	562.1	628.6	939.3	883.6	691.4	790.2	1777.9	1874.9	1533.7	926.7	352.0
87.5°	280.2	348.4	637.5	560.3	271.2	226.3	635.8	678.9	605.2	362.8	127.5
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°	9378.2	9378.2	9378.2	9378.2	9378.2	9378.2	9378.2	9378.2	9378.2	9378.2	9378.2
2.5°	9401.6	9417.7	9437.5	9415.9	9408.8	9380.0	9331.5	9320.8	9295.6	9297.4	9311.8
5°	9484.2	9511.1	9500.3	9417.7	9319.0	9180.7	9037.0	8914.9	8834.1	8828.7	8823.3
7.5°	9642.2	9660.2	9575.8	9340.5	9063.9	8744.3	8442.6	8178.6	8018.7	7979.2	7970.2
10°	9890.1	9886.5	9654.8	9180.7	8629.3	8058.2	7573.3	7207.0	6993.3	6930.4	6914.2
12.5°	10166.6	10125.3	9681.7	8889.7	8015.1	7223.1	6608.9	6201.3	5978.6	5906.7	5888.8
15°	10452.2	10349.8	9615.3	8455.1	7260.8	6323.4	5678.7	5301.5	5181.2	5141.7	5134.5
17.5°	10718.0	10520.4	9424.9	7866.1	6400.6	5427.2	4924.4	4773.5	4802.3	4854.3	4856.1
20°	10978.4	10635.4	9119.6	7122.6	5493.7	4689.1	4518.5	4629.8	4766.3	4872.3	4886.7
22.5°	11235.2	10716.2	8726.3	6264.1	4681.9	4274.3	4394.6	4597.5	4753.8	4868.7	4888.5
25°	11450.7	10735.9	8183.9	5348.2	4118.0	4118.0	4335.3	4527.5	4681.9	4795.1	4814.8
27.5°	11529.7	10603.0	7418.9	4500.5	3834.3	4046.2	4252.7	4412.5	4543.6	4664.0	4685.5
30°	11560.2	10357.0	6535.3	3819.9	3717.5	3969.0	4141.4	4277.8	4401.8	4514.9	4534.7
32.5°	11565.6	10060.7	5597.8	3433.8	3636.7	3888.1	4003.1	4123.4	4256.3	4301.2	4308.4
35°	11599.8	9710.5	4610.1	3236.2	3561.3	3812.7	3904.3	3990.5	3775.0	3791.2	3805.5
37.5°	11698.5	9363.9	3784.0	3124.9	3512.8	3773.2	3882.7	3570.3	3401.4	3361.9	3356.5
40°	11883.5	8993.9	3171.6	3035.1	3494.8	3793.0	3744.5	3333.2	3042.3	2825.0	2792.6
42.5°	12140.3	8595.2	2780.1	2975.8	3507.4	3888.1	3552.3	3105.1	2622.0	2481.9	2464.0
45°	12429.5	8176.8	2568.1	2934.5	3550.5	3961.8	3512.8	2801.6	2426.3	2320.3	2311.3
47.5°	12709.6	7664.9	2458.6	2916.6	3609.8	3902.5	3345.8	2708.2	2332.9	2277.2	2282.6
50°	13031.1	7203.4	2392.1	2896.8	3661.9	3864.8	3157.2	2659.7	2297.0	2365.2	2437.0
52.5°	13302.3	6725.7	2332.9	2857.3	3681.6	3798.3	3108.7	2668.7	2297.0	2428.1	2496.3
55°	13623.7	6364.7	2264.6	2774.7	3643.9	3609.8	3074.6	2722.6	2323.9	2241.3	2248.5
57.5°	14038.6	6246.2	2189.2	2645.4	3518.2	3335.0	3058.4	2774.7	2307.7	2255.7	2273.6
60°	14613.3	6371.9	2158.7	2476.6	3322.4	3119.5	3060.2	2747.7	2194.6	2104.8	2106.6
62.5°	15161.0	6512.0	2156.9	2370.6	3081.8	2927.3	3018.9	2659.7	2137.1	2085.0	2104.8
65°	15340.6	6370.1	2070.7	2252.1	2810.6	2697.5	2943.5	2566.3	2094.0	2015.0	2011.4
67.5°	15100.0	5930.1	1896.5	2059.9	2499.9	2429.9	2844.7	2455.0	2025.8	1961.1	1950.4
70°	14385.2	4947.7	1681.0	1806.7	2146.1	2128.1	2688.5	2325.7	1934.2	1878.5	1831.8
72.5°	12461.8	3525.4	1417.0	1503.2	1747.4	1804.9	2473.0	2156.9	1804.9	1684.6	1612.7
75°	10234.9	2609.5	1163.7	1181.7	1327.2	1483.4	2176.6	1959.3	1652.2	1447.5	1391.8
77.5°	6267.7	1596.6	926.7	933.9	951.8	1183.5	1792.3	1738.4	1458.3	1206.8	1167.3
80°	2029.4	871.0	669.9	704.0	650.1	867.4	1386.4	1479.8	1251.7	1009.3	966.2
82.5°	772.2	508.2	452.6	475.9	450.8	581.9	1011.1	1185.3	1025.5	829.7	675.3
85°	373.5	287.3	267.6	299.9	278.4	298.1	646.5	872.8	777.6	540.6	502.9
87.5°	132.9	127.5	102.4	138.3	118.5	106.0	197.5	440.0	513.6	371.8	332.2
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)