

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: P318649

Luminaire Tested: **GAN-SA5C-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29741 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

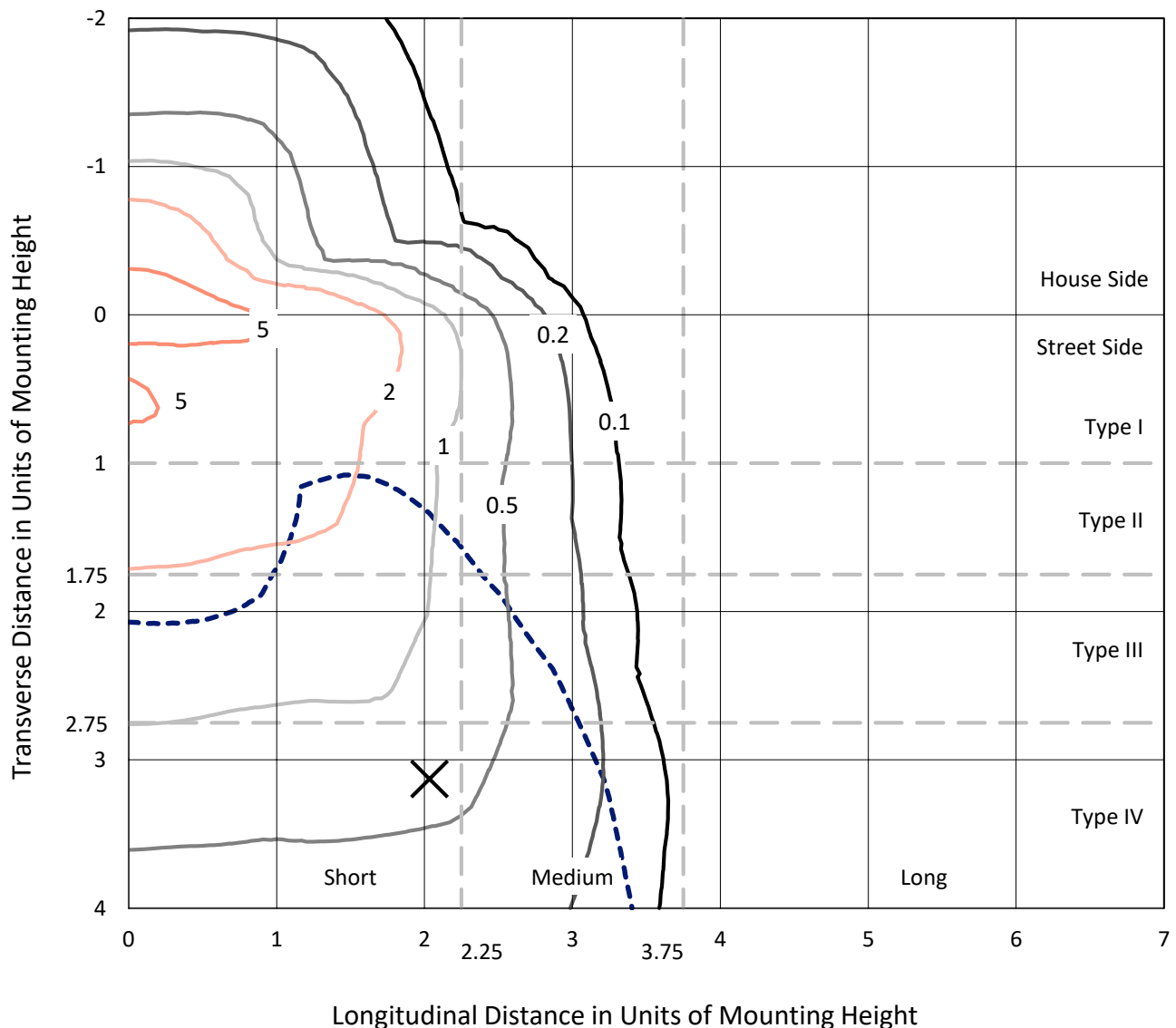
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

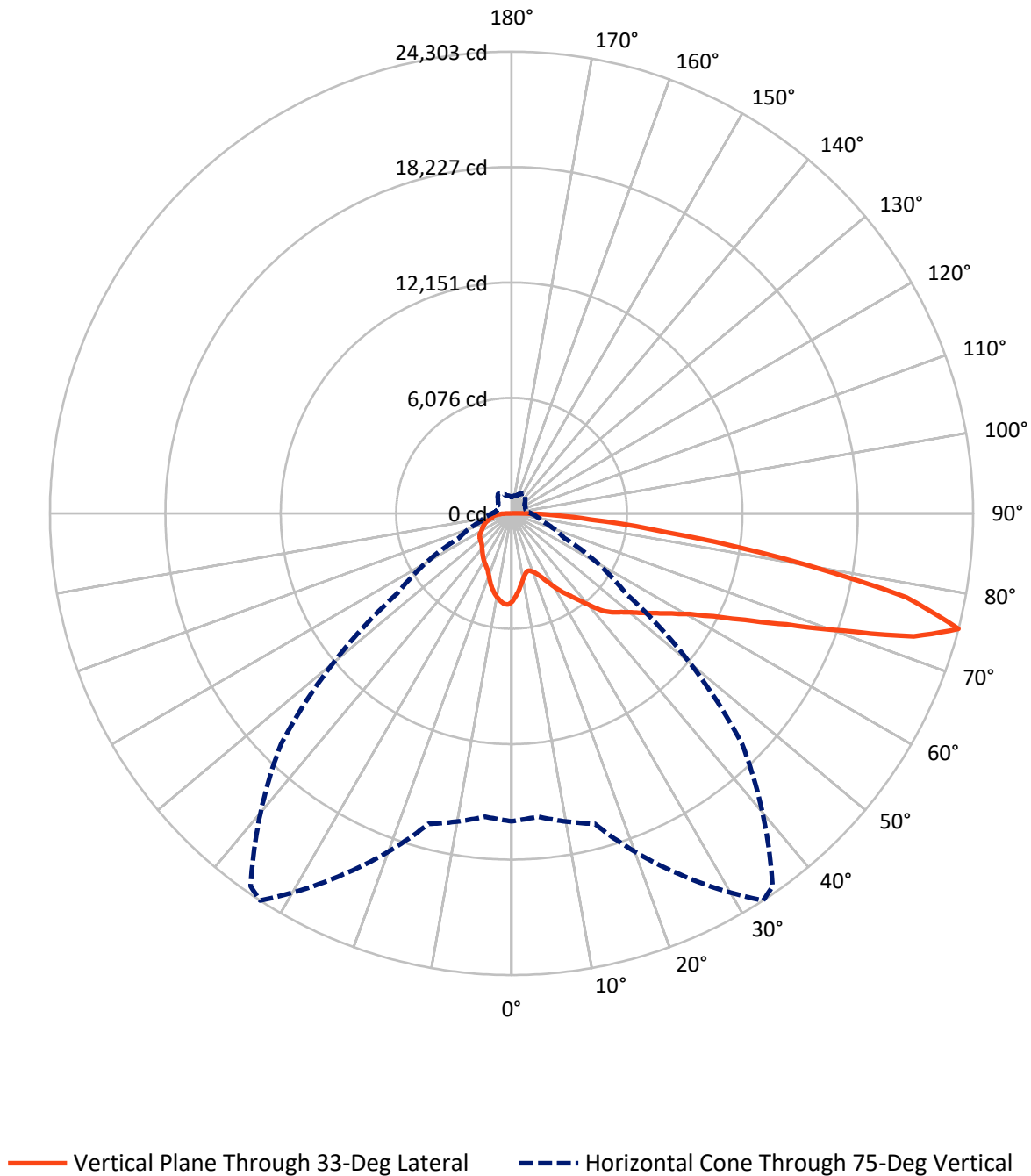
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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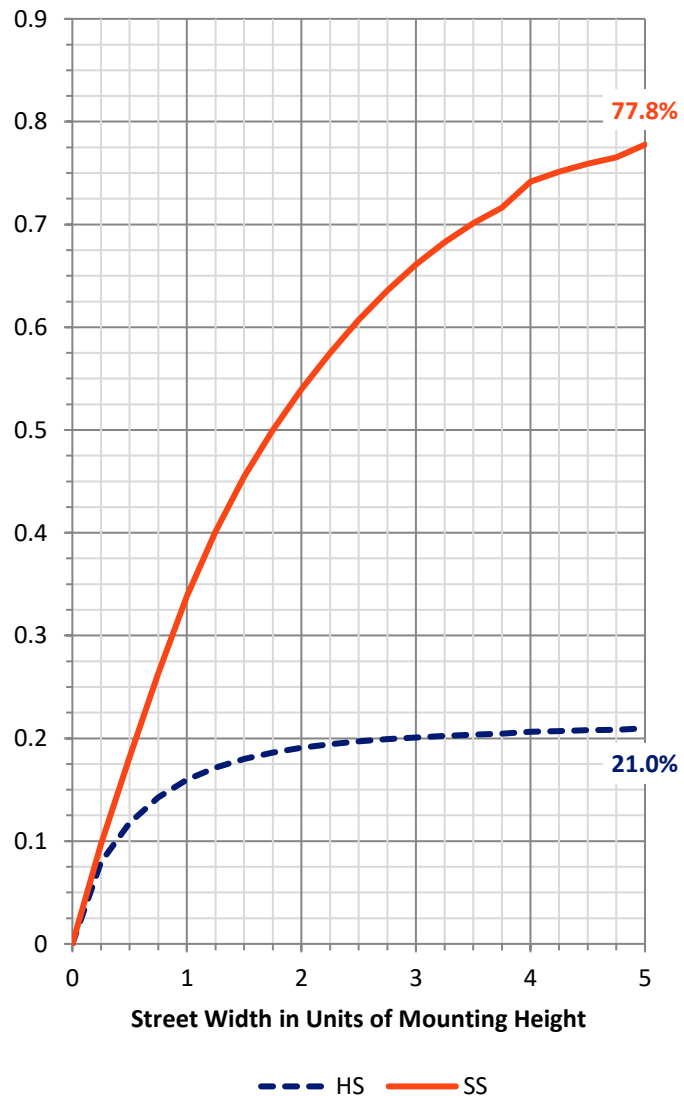
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6386.2	0.0	6386.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	23354.8	0.0	23354.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	29741.0	0.0	29741.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.4	1.4
10°-20°	1138.7	3.8
20°-30°	1859.6	6.3
30°-40°	2769.4	9.3
40°-50°	3972.0	13.4
50°-60°	5453.0	18.3
60°-70°	6826.9	23.0
70°-80°	6176.0	20.8
80°-90°	1125.0	3.8
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°	29741.0	100.0
0°-180°	29741.0	100.0

Coefficient of Utilization



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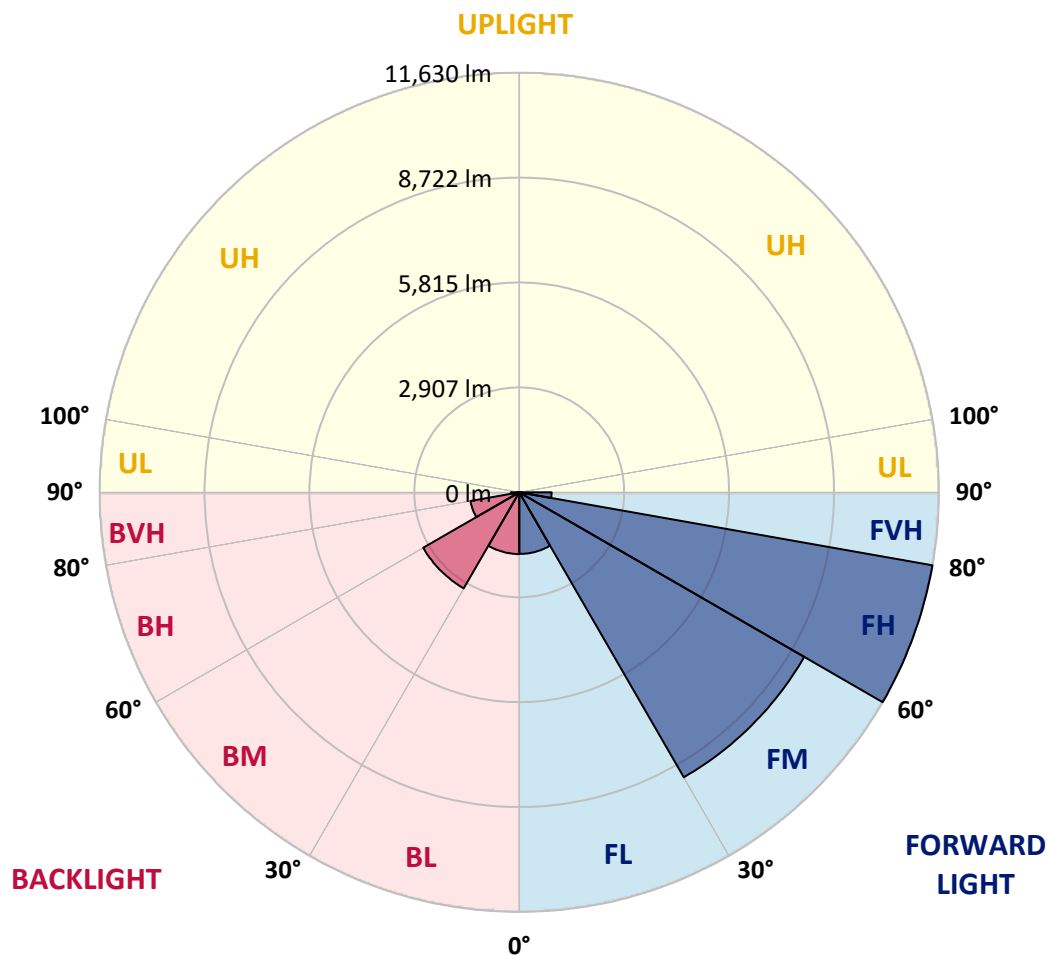
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1708.2	5.7			
FM	(30°-60°)	9120.9	30.7			
FH	(60°-80°)	11629.8	39.1			G4/12000
FVH	(80°-90°)	896.0	3.0			G5
BL	(0°-30°)	1710.5	5.8	B3/2500		
BM	(30°-60°)	3073.5	10.3	B3/5000		
BH	(60°-80°)	1373.1	4.6	B3/2500		G3/2500
BVH	(80°-90°)	229.0	0.8			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	4648.7	4648.7	4648.7	4648.7	4648.7	4648.7	4648.7	4648.7	4648.7	4648.7	4648.7
2.5°	4316.9	4300.4	4331.2	4335.3	4362.1	4372.3	4409.3	4466.8	4514.1	4568.6	4617.9
5°	3925.4	3914.1	3957.3	3988.1	4046.7	4071.3	4158.6	4280.9	4389.8	4513.1	4625.1
7.5°	3553.5	3547.4	3595.7	3665.5	3733.3	3767.2	3918.3	4096.0	4277.8	4477.1	4648.7
10°	3240.2	3238.2	3284.4	3353.2	3452.9	3490.9	3686.1	3920.3	4175.1	4449.4	4688.8
12.5°	3064.5	3071.7	3093.3	3150.8	3243.3	3281.3	3498.1	3773.4	4088.8	4440.1	4747.3
15°	3107.7	3119.0	3082.0	3079.9	3145.7	3175.5	3378.9	3668.6	4027.1	4455.5	4832.6
17.5°	3291.6	3293.6	3196.0	3134.4	3174.5	3189.9	3341.9	3609.0	3991.2	4490.5	4939.4
20°	3550.5	3545.3	3372.7	3270.0	3291.6	3295.7	3394.3	3610.1	3988.1	4551.1	5078.1
22.5°	3893.6	3855.6	3623.4	3483.7	3478.6	3472.4	3528.9	3686.1	4033.3	4649.7	5243.5
25°	4341.5	4305.6	3986.1	3795.0	3753.9	3738.5	3746.7	3848.4	4122.7	4755.5	5428.4
27.5°	4839.8	4777.1	4468.9	4198.7	4113.4	4091.9	4042.6	4077.5	4220.3	4857.2	5648.3
30°	5256.9	5223.0	4953.8	4633.3	4532.6	4501.8	4372.3	4334.3	4361.0	4995.9	5925.7
32.5°	5490.1	5467.5	5304.1	5045.2	4951.7	4908.6	4725.7	4649.7	4587.0	5214.7	6301.7
35°	5772.6	5758.2	5659.6	5471.6	5332.9	5287.7	5145.9	5066.8	4905.5	5515.8	6787.6
37.5°	6132.2	6116.7	6118.8	5966.8	5801.4	5759.2	5665.7	5582.5	5318.5	5911.3	7315.6
40°	6539.0	6509.2	6497.9	6490.7	6385.9	6362.3	6313.0	6200.0	5836.3	6383.9	7836.5
42.5°	7151.3	7045.5	6819.4	6904.7	7008.5	6996.1	7036.2	6873.9	6411.6	6942.7	8345.0
45°	7742.0	7568.4	7178.0	7196.5	7423.5	7492.3	7792.3	7677.3	7035.2	7555.0	8871.0
47.5°	8011.1	7879.6	7547.8	7548.8	7773.8	7916.6	8574.1	8491.9	7690.6	8250.5	9513.1
50°	8312.2	8180.7	7882.7	7994.7	8190.9	8343.0	9329.2	9287.1	8314.2	9011.8	10282.6
52.5°	8640.9	8418.0	8228.9	8429.3	8704.6	8881.3	10085.3	9970.3	8886.4	9778.2	11167.1
55°	8645.0	8584.4	8728.2	8875.1	9287.1	9503.9	10877.4	10573.3	9352.8	10531.2	11887.3
57.5°	9137.1	9038.5	9343.6	9411.4	9949.7	10194.2	11665.4	11098.3	9827.5	11108.6	12275.6
60°	9788.4	9704.2	9953.8	10132.6	10769.5	11096.2	12506.8	11637.6	10200.4	11544.1	12257.1
62.5°	10913.4	10817.8	10814.7	11065.4	11923.2	12303.3	13450.9	12166.7	10348.3	11630.4	11734.2
65°	12560.2	12408.1	12121.5	12240.7	13516.6	13895.7	14506.0	12549.9	10153.1	11168.1	10387.4
67.5°	14162.8	14157.7	13805.3	14049.8	15620.6	15924.7	15707.9	12587.9	9543.9	9558.3	7997.8
70°	15760.3	15780.9	15721.3	16571.9	18463.2	18779.7	16988.0	12077.3	8174.5	6902.7	4791.5
72.5°	17026.0	17020.9	17320.8	19514.2	22152.4	22081.5	18066.7	10530.2	5869.2	3726.1	2289.9
75°	16206.2	16027.4	16921.2	20971.0	24302.6	23956.4	17149.3	7345.4	3046.0	1696.1	1232.8
77.5°	10570.2	10739.7	12051.7	17323.9	21257.6	20836.4	12581.8	3427.2	1435.2	1112.6	893.8
80°	3827.8	4006.6	5643.1	9813.1	14645.7	14576.8	6195.8	1408.5	970.8	840.4	651.3
82.5°	1317.0	1382.8	2226.2	4357.9	8269.0	8577.2	2331.0	800.3	705.8	595.9	445.9
85°	516.7	591.7	1018.1	2096.8	4171.0	4201.8	944.1	478.7	491.1	390.4	244.5
87.5°	196.2	238.3	487.0	973.9	1904.7	1749.5	338.0	228.1	279.4	232.2	116.1
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°	4648.7	4648.7	4648.7	4648.7	4648.7	4648.7	4648.7	4648.7	4648.7	4648.7	4648.7
2.5°	4655.9	4677.5	4722.7	4753.5	4786.3	4795.6	4799.7	4807.9	4816.1	4813.1	4814.1
5°	4684.6	4726.8	4799.7	4830.5	4844.9	4828.5	4796.6	4770.9	4752.4	4742.2	4739.1
7.5°	4731.9	4791.5	4869.6	4864.4	4831.6	4758.6	4676.4	4614.8	4563.4	4544.9	4534.7
10°	4794.6	4864.4	4918.9	4860.3	4764.8	4638.4	4515.1	4419.6	4342.5	4312.7	4307.6
12.5°	4874.7	4945.6	4955.9	4831.6	4673.3	4500.7	4333.3	4206.9	4091.9	4054.9	4046.7
15°	4978.5	5045.2	4981.5	4781.2	4560.3	4328.2	4111.4	3939.8	3818.6	3773.4	3757.0
17.5°	5087.4	5151.1	4986.7	4698.0	4412.4	4123.7	3851.5	3675.8	3537.1	3484.7	3478.6
20°	5217.8	5246.6	4965.1	4578.8	4209.0	3858.7	3572.0	3406.6	3332.7	3295.7	3291.6
22.5°	5379.1	5348.3	4915.8	4417.5	3951.1	3552.5	3319.3	3242.3	3223.8	3215.6	3218.6
25°	5549.7	5455.1	4842.9	4206.9	3625.5	3246.4	3134.4	3156.0	3180.6	3177.5	3177.5
27.5°	5737.7	5564.0	4730.9	3927.5	3264.9	2995.7	3009.1	3088.2	3125.1	3124.1	3123.1
30°	5979.1	5687.3	4588.1	3591.6	2927.9	2819.0	2900.2	2996.7	3047.1	3045.0	3046.0
32.5°	6276.0	5822.9	4393.9	3216.6	2684.4	2688.5	2782.0	2877.6	2936.1	2931.0	2932.0
35°	6623.2	5975.0	4130.9	2846.7	2523.1	2584.8	2658.7	2725.5	2781.0	2773.8	2766.6
37.5°	7001.3	6123.9	3781.6	2515.9	2391.6	2488.2	2549.8	2561.1	2586.8	2568.3	2555.0
40°	7360.8	6238.0	3331.6	2244.7	2259.1	2406.0	2446.1	2400.9	2354.6	2348.5	2330.0
42.5°	7674.2	6276.0	2876.5	2028.0	2119.4	2319.7	2344.4	2249.9	2166.6	2127.6	2111.2
45°	8005.0	6289.3	2452.2	1846.1	1984.8	2242.7	2269.4	2143.0	2025.9	1941.7	1913.9
47.5°	8437.5	6385.9	2122.5	1711.5	1882.1	2191.3	2229.3	2057.7	1905.7	1785.5	1759.8
50°	9003.6	6577.0	1854.3	1608.8	1815.3	2157.4	2200.5	1974.5	1807.1	1662.2	1636.5
52.5°	9632.3	6752.7	1637.6	1525.6	1750.6	2097.8	2163.6	1915.0	1714.6	1548.2	1520.5
55°	10072.0	6618.1	1462.9	1439.3	1666.3	2012.5	2112.2	1864.6	1582.1	1437.2	1412.6
57.5°	10156.2	6157.8	1330.4	1349.9	1564.6	1905.7	2033.1	1752.6	1510.2	1389.0	1363.3
60°	9926.1	5516.8	1231.8	1267.7	1455.7	1771.1	1885.2	1673.5	1441.3	1337.6	1316.0
62.5°	9347.7	4860.3	1158.8	1193.8	1354.0	1634.5	1792.7	1590.3	1371.5	1279.0	1257.5
65°	8179.6	4080.6	1089.0	1128.0	1259.5	1516.3	1709.5	1513.3	1302.7	1231.8	1211.2
67.5°	6174.3	3056.3	1023.2	1058.2	1175.3	1413.6	1619.1	1437.2	1235.9	1190.7	1166.0
70°	3635.7	1913.9	948.2	985.2	1086.9	1306.8	1522.5	1354.0	1152.7	1132.1	1100.3
72.5°	1692.0	1151.6	863.0	898.9	976.0	1164.0	1398.2	1245.1	1054.0	1008.8	965.7
75°	1009.9	842.4	762.3	794.1	848.6	1011.9	1242.0	1134.2	960.6	901.0	855.8
77.5°	755.1	644.1	651.3	685.2	729.4	885.6	1100.3	1046.9	888.6	842.4	811.6
80°	543.5	489.0	531.1	568.1	614.3	805.4	1054.0	967.7	803.4	741.7	713.0
82.5°	362.6	351.3	399.6	437.6	482.8	704.8	990.3	847.6	686.3	608.2	544.5
85°	200.3	211.6	269.2	285.6	324.6	496.2	811.6	681.1	516.7	416.1	397.6
87.5°	83.2	97.6	144.9	139.7	172.6	295.9	534.2	410.9	328.7	245.5	191.1
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)