

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: P317574

Luminaire Tested: **GAN-SA0C-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53617 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 558
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

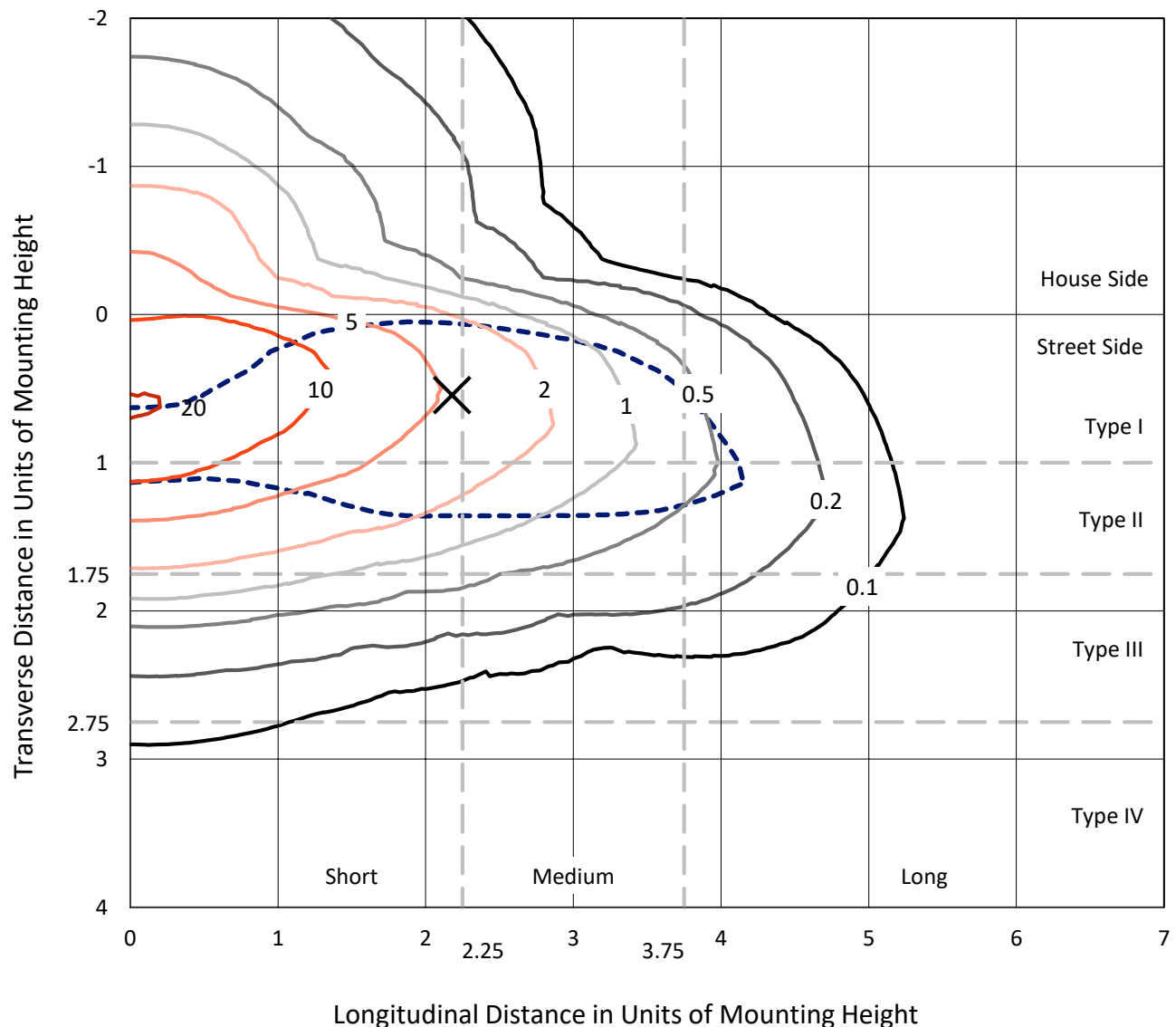


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Iso-Footcandle Lines of Horizontal Illumination

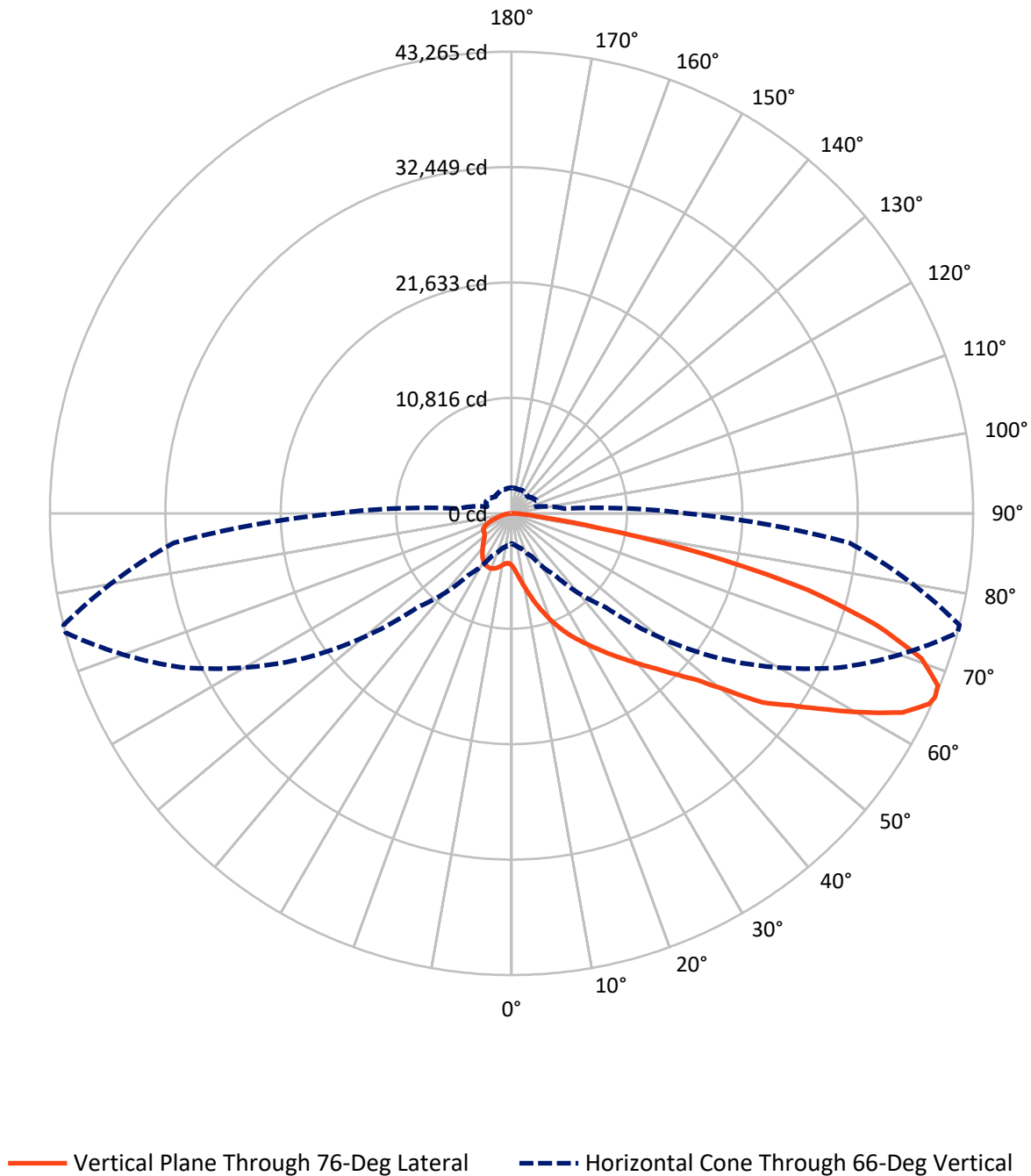
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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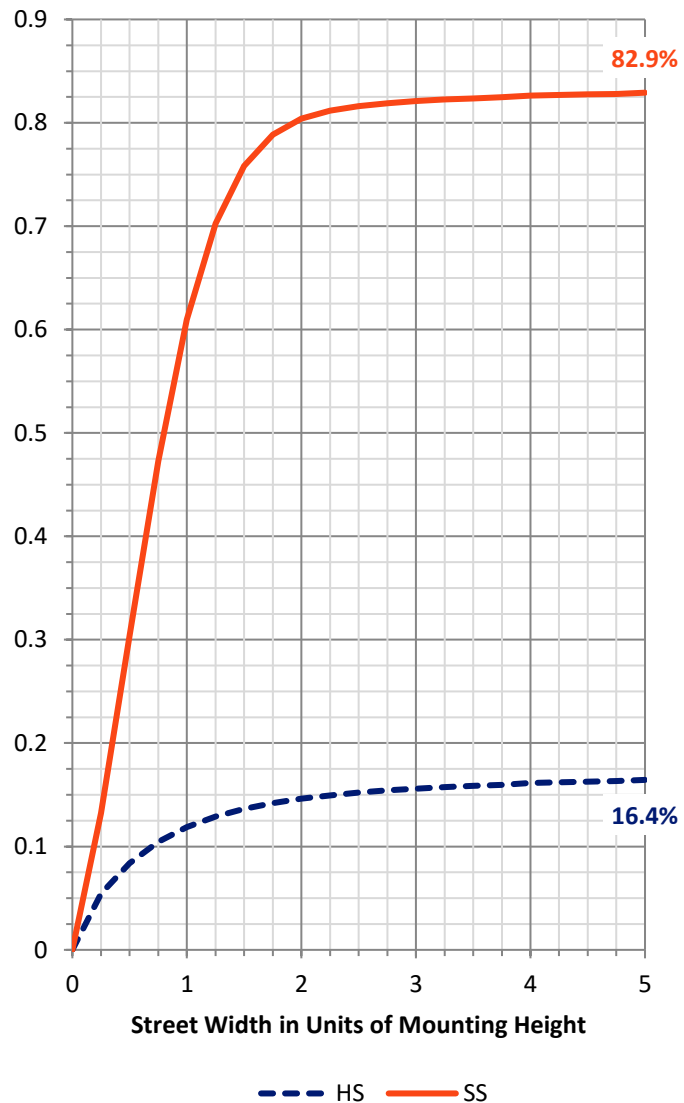
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9021.9	0.0	9021.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	44595.1	0.0	44595.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	53617.0	0.0	53617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.1	1.1
10°-20°	2338.2	4.4
20°-30°	4543.7	8.5
30°-40°	7416.4	13.8
40°-50°	10132.5	18.9
50°-60°	11802.4	22.0
60°-70°	10581.0	19.7
70°-80°	5347.2	10.0
80°-90°	863.5	1.6
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°	53617.0	100.0
0°-180°	53617.0	100.0

Coefficient of Utilization



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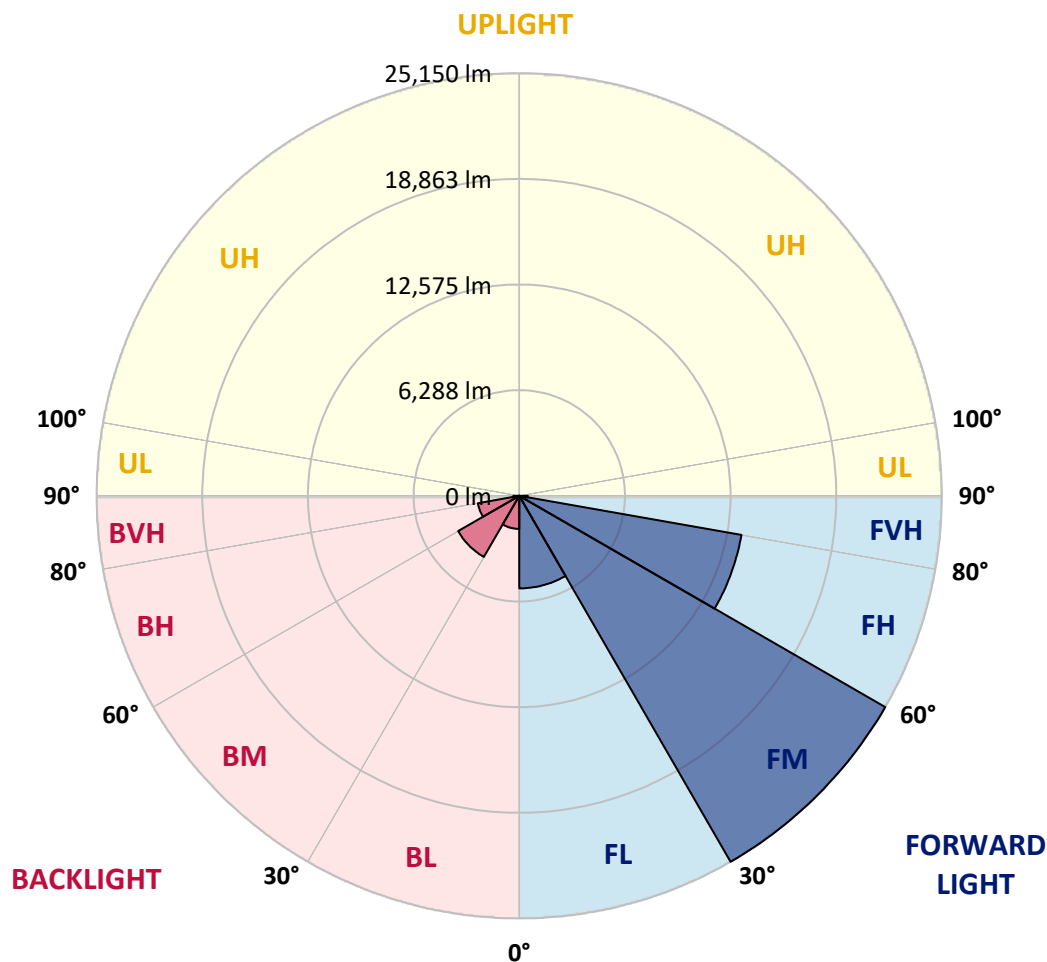
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5506.3	10.3			
FM	(30°-60°)	25150.1	46.9			
FH	(60°-80°)	13428.7	25.0			G5
FVH	(80°-90°)	509.9	1.0			G4/750
BL	(0°-30°)	1967.7	3.7	B3/2500		
BM	(30°-60°)	4201.1	7.8	B3/5000		
BH	(60°-80°)	2499.5	4.7	B3/2500		G3/2500
BVH	(80°-90°)	353.6	0.7			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4896.4	4896.4	4896.4	4896.4	4896.4	4896.4	4896.4	4896.4	4896.4	4896.4	4896.4
2.5°	6500.1	6401.8	6392.7	6248.9	6216.1	5941.3	5739.2	5528.1	5287.8	5240.5	5051.2
5°	8349.4	8340.3	8214.7	7979.9	7796.1	7326.5	6862.3	6370.8	5832.0	5744.7	5318.7
7.5°	10013.1	9998.6	9902.1	9649.1	9383.3	8806.3	8143.7	7390.2	6516.5	6387.2	5681.0
10°	11276.4	11270.9	11238.2	11052.5	10826.8	10273.4	9541.7	8513.3	7311.9	7135.3	6134.2
12.5°	12252.0	12262.9	12284.8	12219.3	12111.9	11640.4	10890.5	9703.7	8160.1	7985.4	6638.4
15°	12912.8	12945.5	13058.4	13151.2	13207.7	12918.2	12192.0	10921.4	9110.3	8901.0	7197.2
17.5°	13245.9	13282.3	13477.0	13757.4	14015.8	13986.7	13409.7	12082.7	10022.2	9820.2	7797.9
20°	13533.5	13560.8	13779.2	14115.9	14572.8	14774.9	14450.9	13200.4	11021.5	10781.3	8435.0
22.5°	14367.1	14401.7	14467.3	14658.4	15062.5	15433.8	15277.3	14257.9	11937.1	11713.2	9039.3
25°	15976.2	16018.1	15876.1	15714.1	15790.6	16049.0	16078.2	15222.7	12865.4	12612.4	9689.1
27.5°	17914.8	17974.9	17732.8	17315.9	16951.9	16851.8	16817.2	16012.6	13751.9	13458.8	10331.7
30°	19813.3	19917.0	19602.1	19061.5	18393.5	17923.9	17576.2	16786.2	14625.6	14345.3	10937.8
32.5°	21668.1	21626.3	21169.4	20641.5	19858.8	19270.9	18429.9	17616.3	15608.5	15286.4	11540.3
35°	22938.6	22953.2	22529.1	21902.9	21156.6	20705.2	19573.0	18511.8	16611.5	16314.8	12224.7
37.5°	24019.9	23952.5	23472.0	22887.7	22245.1	22052.2	20910.9	19498.4	17698.2	17374.2	12952.8
40°	24380.3	24302.0	23987.1	23566.6	23051.5	23035.1	22387.1	20616.0	18926.8	18606.5	13773.7
42.5°	24161.8	24061.7	23932.5	23817.8	23659.5	23732.3	23774.1	21926.6	20277.5	19918.9	14723.9
45°	23355.5	23204.4	23295.4	23544.8	23888.8	24300.2	25026.5	23377.3	21790.1	21489.7	15839.7
47.5°	22115.9	21979.4	22263.3	22796.7	23732.3	24773.4	26211.4	24979.1	23595.8	23297.2	17428.8
50°	20372.1	20412.2	20818.1	21788.3	23202.6	24991.9	27671.3	27099.7	26220.5	25942.0	19596.7
52.5°	17510.7	17518.0	18661.1	20253.8	22263.3	24879.0	28481.3	29810.0	29804.6	29467.8	21660.8
55°	14853.1	15015.1	15919.8	18036.7	20741.6	24427.6	29047.4	31127.9	32158.2	31763.2	23584.8
57.5°	12257.5	12352.1	13209.5	15335.5	18570.1	23224.4	29628.0	32709.7	34870.3	34620.9	25976.6
60°	9305.1	9450.7	10337.1	12301.2	15792.4	21089.3	29682.6	34360.6	38112.2	37861.0	28646.9
62.5°	6039.6	6290.7	7120.8	8961.0	12432.2	18018.5	28415.7	35440.0	41184.7	41095.5	31016.9
65°	3471.2	3660.5	4237.5	5657.3	8577.0	14163.3	25403.2	35025.0	43075.9	43025.0	31903.3
66°	2835.9	2954.2	3396.6	4421.4	7077.1	12437.7	23652.2	34149.5	43263.4	43265.2	31801.4
67.5°	2268.0	2320.8	2519.2	3165.4	5222.3	9858.4	20523.2	32218.2	43030.4	43094.1	31144.3
70°	1876.7	1904.0	1965.9	2122.4	2850.5	5944.9	14567.4	27199.8	40691.4	40740.6	28579.6
72.5°	1683.7	1700.1	1723.8	1745.6	2011.4	3321.9	8897.3	21759.1	35676.7	35740.4	24671.5
75°	1525.4	1534.5	1530.8	1532.6	1687.4	2116.9	4597.9	16245.6	28847.1	28719.7	18899.5
77.5°	1339.7	1348.8	1330.6	1334.2	1492.6	1627.3	2288.0	11372.8	19467.5	18568.3	10648.4
80°	1132.2	1139.5	1132.2	1144.9	1299.7	1228.7	1330.6	6398.1	8607.9	8141.9	3786.1
82.5°	855.5	886.5	908.3	959.3	1070.3	873.7	890.1	2491.9	2621.1	2495.5	1161.3
85°	375.0	456.9	684.4	733.6	804.5	524.2	584.3	1015.7	1066.7	1033.9	422.3
87.5°	98.3	107.4	338.6	425.9	446.0	236.6	304.0	462.3	487.8	462.3	140.2
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°	4896.4	4896.4	4896.4	4896.4	4896.4	4896.4	4896.4	4896.4	4896.4	4896.4	4896.4
2.5°	4951.0	4861.9	4701.7	4559.7	4452.3	4379.5	4306.7	4270.3	4248.4	4226.6	4230.2
5°	5109.4	4929.2	4654.3	4459.6	4350.4	4281.2	4244.8	4230.2	4221.1	4199.3	4199.3
7.5°	5347.9	5093.0	4714.4	4514.2	4428.6	4375.9	4354.0	4346.7	4335.8	4310.3	4314.0
10°	5648.2	5291.4	4840.0	4645.2	4567.0	4508.7	4477.8	4466.9	4446.8	4417.7	4421.4
12.5°	6001.3	5537.2	5005.7	4801.8	4707.1	4628.9	4577.9	4547.0	4512.4	4474.1	4476.0
15°	6387.2	5804.7	5184.0	4941.9	4812.7	4703.5	4621.6	4568.8	4514.2	4466.9	4465.0
17.5°	6778.6	6063.2	5320.6	5018.4	4843.7	4699.9	4588.8	4506.9	4439.6	4381.3	4375.9
20°	7200.9	6296.2	5397.0	5011.1	4785.4	4614.3	4466.9	4364.9	4290.3	4232.1	4223.0
22.5°	7630.4	6514.6	5409.7	4936.5	4656.2	4446.8	4292.1	4179.3	4102.8	4042.7	4020.9
25°	8023.6	6683.9	5357.0	4792.7	4476.0	4250.3	4099.2	3984.5	3922.6	3851.6	3829.8
27.5°	8382.2	6802.2	5251.4	4608.8	4273.9	4051.9	3909.9	3811.6	3744.2	3689.6	3671.4
30°	8704.4	6865.9	5078.5	4390.4	4066.4	3864.4	3744.2	3676.9	3618.6	3549.5	3536.7
32.5°	9010.2	6865.9	4856.4	4152.0	3860.7	3698.7	3627.7	3585.9	3520.3	3453.0	3434.8
35°	9316.0	6824.1	4594.3	3902.6	3671.4	3580.4	3576.8	3527.6	3427.5	3336.5	3312.8
37.5°	9638.2	6738.5	4299.4	3669.6	3516.7	3527.6	3558.6	3449.4	3307.4	3178.1	3143.6
40°	10002.2	6620.2	3993.6	3467.6	3387.5	3504.0	3509.4	3336.5	3059.8	2941.5	2910.6
42.5°	10430.0	6501.9	3709.6	3289.2	3285.5	3433.0	3416.6	3092.6	2926.9	2866.9	2850.5
45°	10992.4	6434.5	3440.3	3119.9	3205.4	3318.3	3258.2	2957.9	2888.7	2854.1	2839.6
47.5°	11878.9	6469.1	3192.7	2985.2	3125.3	3203.6	2963.3	2903.3	2854.1	2812.3	2797.7
50°	12989.2	6449.1	2992.5	2892.4	3034.3	3083.5	2830.5	2832.3	2806.8	2759.5	2737.6
52.5°	13824.7	6292.6	2863.2	2839.6	2954.2	2870.5	2746.7	2763.1	2750.4	2681.2	2657.5
55°	14631.1	6157.9	2797.7	2819.5	2896.0	2604.8	2648.4	2688.5	2675.8	2608.4	2597.5
57.5°	15634.0	6132.4	2757.7	2825.0	2846.9	2471.9	2553.8	2606.6	2597.5	2568.4	2562.9
60°	16862.7	6139.7	2721.3	2834.1	2792.2	2373.6	2464.6	2532.0	2537.4	2532.0	2528.3
62.5°	17538.0	5941.3	2630.2	2808.6	2695.8	2288.0	2371.8	2470.1	2471.9	2482.8	2481.0
65°	16964.6	5347.9	2461.0	2719.4	2533.8	2217.1	2291.7	2399.1	2371.8	2420.9	2420.9
66°	16407.6	5005.7	2377.2	2661.2	2464.6	2189.7	2266.2	2362.7	2328.1	2395.4	2395.4
67.5°	15270.0	4428.6	2226.2	2537.4	2366.3	2151.5	2237.1	2302.6	2255.3	2355.4	2348.1
70°	13191.3	3425.7	1922.2	2257.1	2204.3	2095.1	2197.0	2182.5	2113.3	2266.2	2237.1
72.5°	11121.7	2602.9	1543.6	1889.4	1958.6	2024.1	2140.6	2029.6	1942.2	2049.6	1985.9
75°	8629.8	1956.8	1219.6	1468.9	1654.6	1913.1	2073.3	1853.0	1727.4	1716.5	1681.9
77.5°	4665.3	1343.3	966.5	1121.3	1314.2	1774.7	2027.7	1663.7	1474.4	1430.7	1403.4
80°	1847.5	873.7	702.6	850.1	919.2	1574.5	1918.5	1443.4	1215.9	1172.2	1130.4
82.5°	762.7	516.9	453.2	569.7	598.9	1347.0	1721.9	1183.2	939.2	1299.7	1379.7
85°	327.6	284.0	269.4	294.9	338.6	944.7	1370.6	902.8	1013.9	904.7	719.0
87.5°	98.3	120.1	114.7	112.9	123.8	225.7	729.9	502.4	744.5	282.1	211.1
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)