

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: P320894

Luminaire Tested: **GAN-SA0C-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320894
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60065 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

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



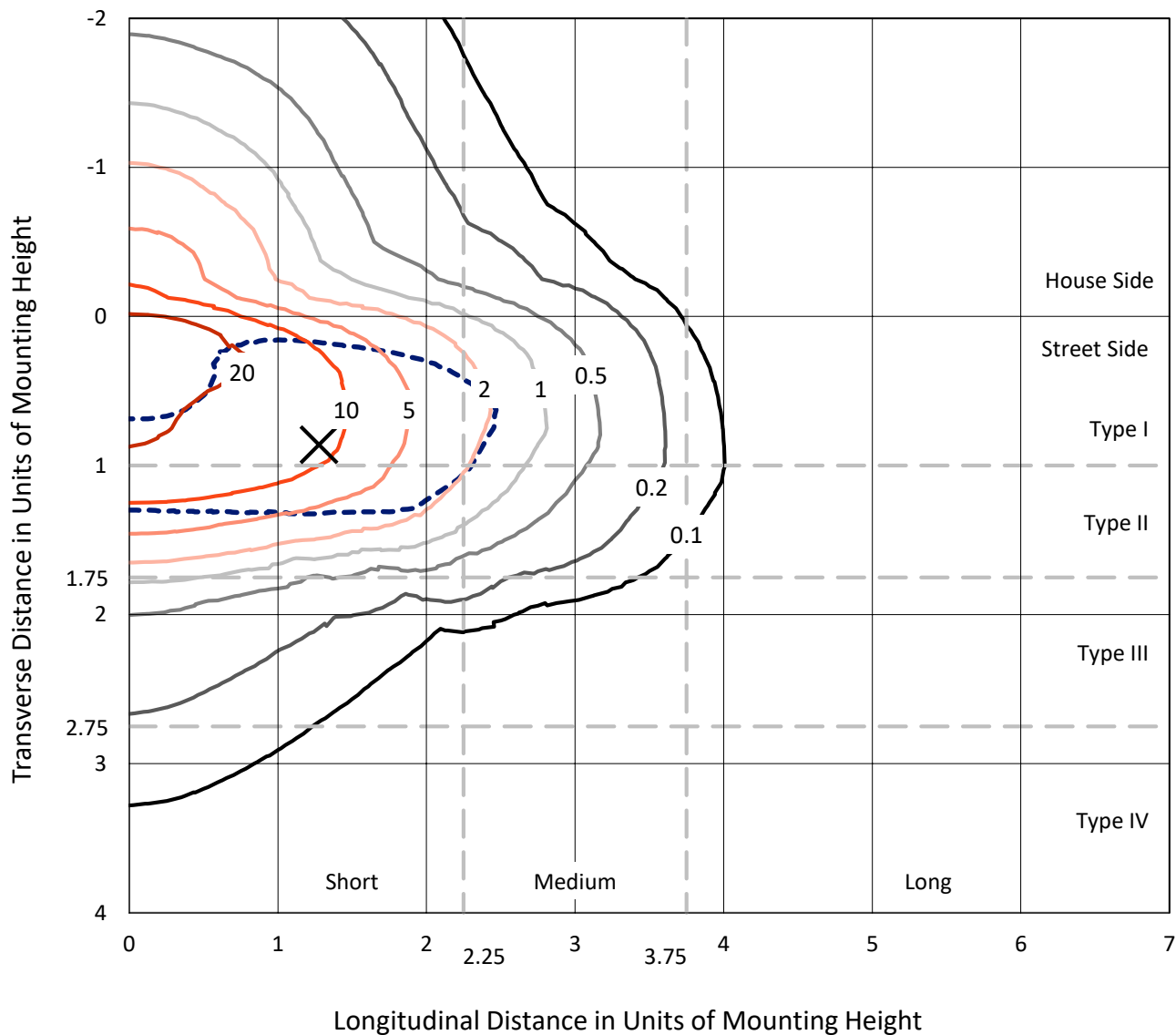
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

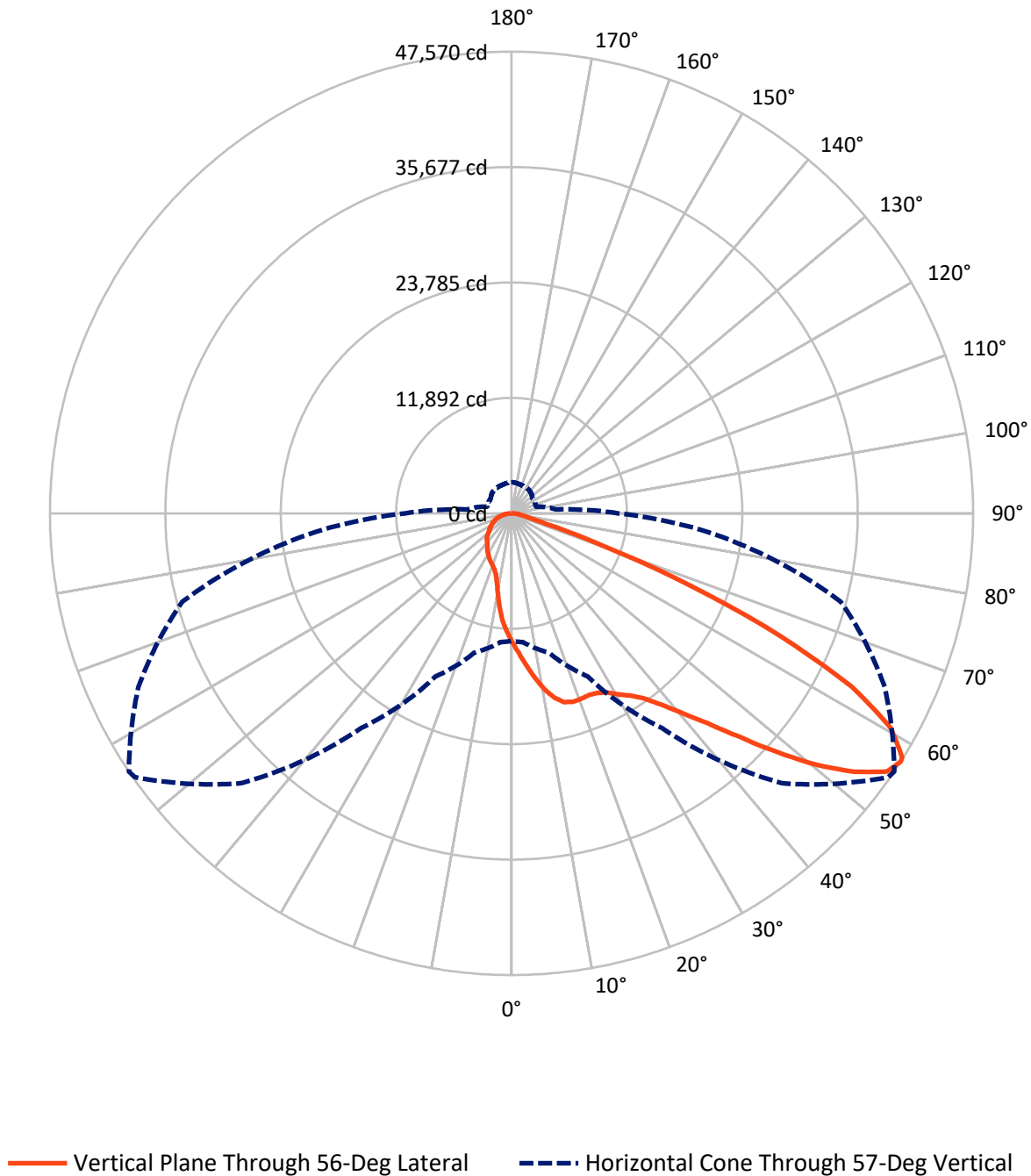


Based on 25 foot mounting height. Maximum calculated value = 29.5 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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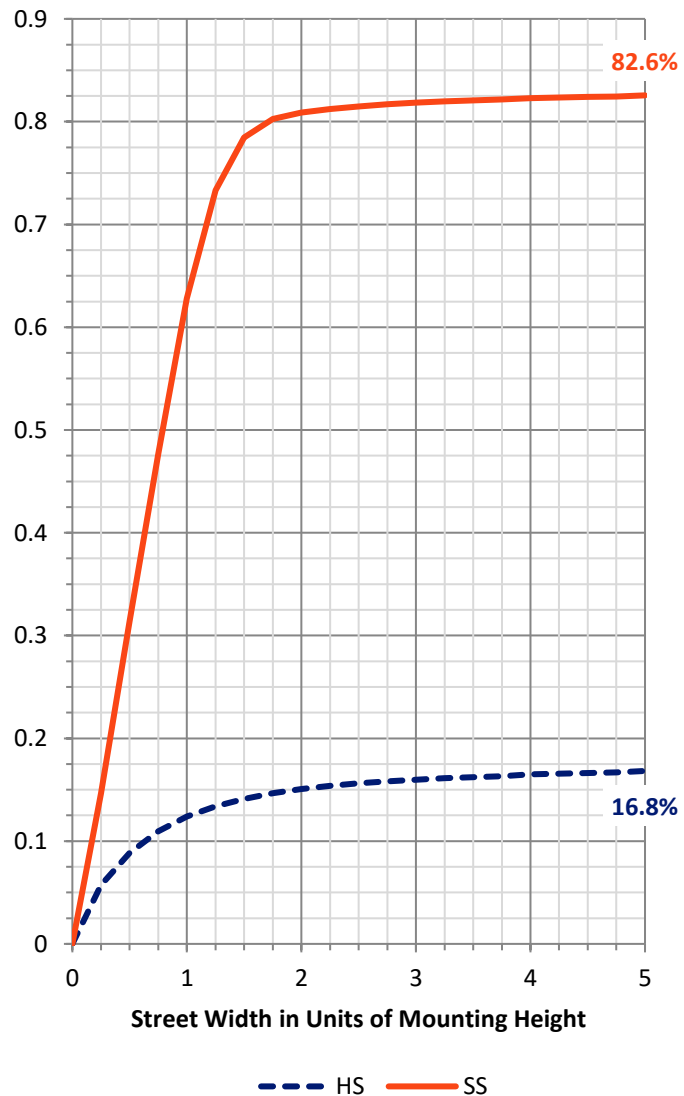
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10353.9	0.0	10353.9
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	49711.1	0.0	49711.1
	% Fixture	82.8	0.0	82.8
Total	Lumens	60065.0	0.0	60065.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1272.6	2.1
10°-20°	3598.0	6.0
20°-30°	5860.5	9.8
30°-40°	8760.8	14.6
40°-50°	13288.2	22.1
50°-60°	14893.8	24.8
60°-70°	8796.8	14.6
70°-80°	2882.2	4.8
80°-90°	712.1	1.2
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°	60065.0	100.0
0°-180°	60065.0	100.0

Coefficient of Utilization



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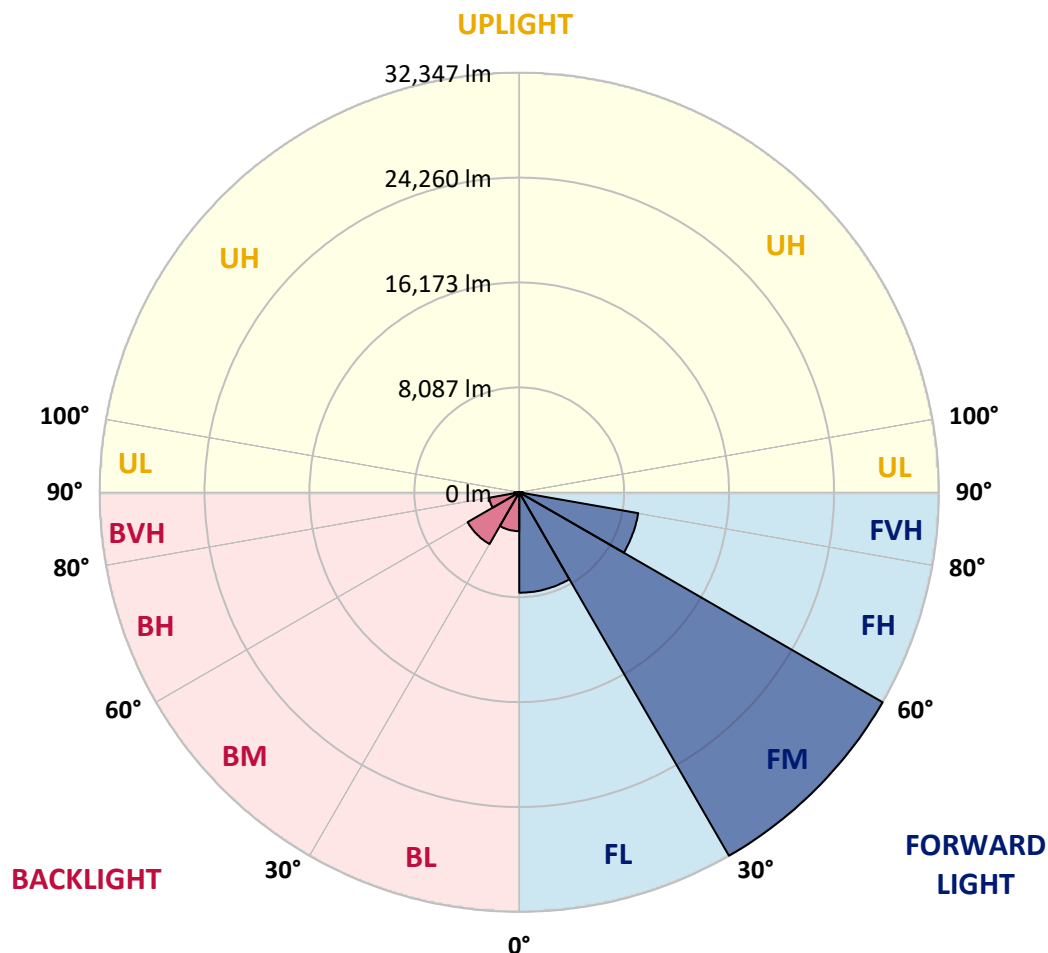
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7737.3	12.9			
FM	(30°-60°)	32347.0	53.9			
FH	(60°-80°)	9313.3	15.5			G4/12000
FVH	(80°-90°)	313.5	0.5			G3/500
BL	(0°-30°)	2993.9	5.0	B4/5000		
BM	(30°-60°)	4595.8	7.7	B3/5000		
BH	(60°-80°)	2365.8	3.9	B3/2500		G3/2500
BVH	(80°-90°)	398.5	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	13322.5	13322.5	13322.5	13322.5	13322.5	13322.5	13322.5	13322.5	13322.5	13322.5	13322.5
2.5°	15297.9	15438.3	15376.4	15161.7	14996.6	14763.3	14503.2	14424.8	14150.2	13842.7	13473.2
5°	17719.3	17649.1	17547.9	17213.5	16860.5	16449.8	15797.5	15694.3	15083.3	14387.6	13652.7
7.5°	19098.2	19092.0	19032.1	18836.0	18514.0	17977.3	17190.8	17069.0	16146.3	15027.5	13888.1
10°	18897.9	18883.5	18982.6	19186.9	19283.9	19172.5	18509.9	18388.1	17254.8	15735.5	14160.5
12.5°	17760.5	17768.8	17927.7	18357.1	18941.3	19643.1	19535.8	19475.9	18404.6	16536.5	14490.8
15°	16875.0	16893.6	17019.5	17393.1	18082.6	19356.2	20159.2	20179.8	19517.2	17419.9	14876.8
17.5°	16486.9	16526.1	16583.9	16846.1	17477.7	18784.4	20307.8	20419.3	20491.5	18336.5	15248.4
20°	16610.8	16647.9	16664.4	16831.6	17349.8	18437.6	20204.6	20404.8	21238.8	19199.3	15619.9
22.5°	17166.0	17188.8	17199.1	17242.4	17644.9	18536.7	20136.5	20347.0	21779.6	19973.4	15900.7
25°	18086.7	18070.2	18004.1	17948.4	18218.8	18928.9	20293.3	20493.6	22219.3	20675.2	16084.4
27.5°	19189.0	19168.3	19040.4	18887.6	19042.4	19539.9	20745.4	20904.3	22613.5	21331.6	16177.3
30°	20512.1	20458.5	20217.0	20035.3	20095.2	20456.4	21490.6	21635.1	23222.5	22076.8	16268.1
32.5°	22041.7	21983.9	21635.1	21333.7	21333.7	21635.1	22258.5	22378.2	23738.5	22919.0	16414.7
35°	23957.3	23885.1	23431.0	22925.2	22782.8	22935.5	23305.0	23389.7	24667.4	23980.0	16681.0
37.5°	26215.6	26118.6	25530.3	24853.2	24541.5	24533.2	24799.5	24972.9	26151.6	25373.4	17133.0
40°	28480.0	28411.9	27897.9	27365.4	26754.3	26558.2	26969.0	27022.7	28092.0	27103.2	17711.0
42.5°	30230.5	30218.1	30123.2	30193.3	29567.9	29171.5	29493.6	29536.9	30461.7	28975.4	18326.1
45°	31155.3	31175.9	31636.2	32656.0	32887.1	32598.2	32757.1	32769.5	33169.9	30864.2	18889.7
47.5°	30414.2	30521.5	31685.8	33966.7	35859.6	36819.5	36555.3	36708.0	35795.6	32486.7	19331.4
50°	27526.4	27658.5	29640.1	33382.6	37246.8	40904.6	40766.3	40731.2	37913.5	33675.7	19570.9
52.5°	23949.1	24052.3	25687.1	30346.1	36229.1	43162.8	44432.3	44250.7	39796.1	34565.4	19616.3
55°	18501.6	18662.6	20229.3	24285.5	32113.1	42300.0	47128.2	46965.1	41511.5	35031.9	19562.6
57°	13153.2	13322.5	14878.9	18534.6	27014.4	39313.1	47396.5	47569.9	42438.3	35110.3	19622.5
57.5°	11737.2	11910.5	13452.5	17003.0	25425.0	38233.5	47165.3	47454.3	42605.5	35097.9	19655.5
60°	5909.9	5975.9	6958.5	9491.3	16072.0	30909.6	44149.5	44894.7	42756.2	34491.0	19797.9
62.5°	3674.3	3626.8	3595.9	4372.0	7819.3	20497.7	37925.9	39360.5	39872.5	33021.3	19453.2
65°	3230.5	3141.7	2801.1	2739.2	3453.4	9955.7	28560.5	30346.1	33710.8	30705.3	18631.6
67.5°	3034.4	2947.7	2563.8	2332.6	2334.6	3946.8	17731.6	19742.2	26261.0	26789.4	16693.3
70°	2832.1	2753.7	2394.5	2122.0	1987.8	2186.0	8157.8	9683.3	17118.6	21057.1	13952.1
72.5°	2572.0	2518.3	2177.8	1897.0	1754.6	1636.9	3123.2	3688.8	9910.3	14142.0	9689.4
75°	2299.5	2250.0	1958.9	1690.6	1517.2	1288.1	1758.7	1895.0	5034.6	7235.1	4770.4
77.5°	2000.2	1971.3	1742.2	1494.5	1356.2	1067.2	1244.7	1310.8	2159.2	3102.5	2392.4
80°	1591.5	1647.2	1523.4	1331.4	1203.4	854.6	881.4	924.8	1257.1	1515.1	1358.3
82.5°	1036.2	1133.3	1193.1	1081.7	990.8	672.9	633.7	652.3	819.5	924.8	590.4
85°	431.4	485.1	784.4	708.0	658.5	491.3	425.2	433.5	507.8	526.4	241.5
87.5°	192.0	204.4	344.7	324.1	278.7	169.3	181.7	198.2	270.4	256.0	92.9
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°	13322.5	13322.5	13322.5	13322.5	13322.5	13322.5	13322.5	13322.5	13322.5	13322.5	13322.5
2.5°	13334.9	13161.5	12864.2	12536.0	12267.7	12053.0	11836.2	11687.6	11514.2	11421.3	11373.8
5°	13345.2	13004.6	12379.1	11737.2	11163.3	10639.0	10139.4	9755.5	9396.3	9202.3	9148.6
7.5°	13388.5	12876.6	11865.1	10808.3	9788.5	8857.6	8139.2	7689.2	7365.1	7220.6	7179.4
10°	13423.6	12725.9	11229.4	9664.7	8277.5	7334.2	6776.8	6525.0	6413.5	6395.0	6376.4
12.5°	13506.2	12571.1	10560.5	8471.6	7103.0	6450.7	6256.6	6240.1	6271.1	6316.5	6316.5
15°	13636.2	12418.3	9796.8	7447.7	6355.7	6126.6	6165.8	6256.6	6341.3	6411.5	6421.8
17.5°	13731.2	12230.5	8975.2	6628.2	5957.3	6019.3	6159.6	6287.6	6374.3	6442.4	6448.6
20°	13799.3	11939.4	8097.9	6002.7	5728.2	5920.2	6095.6	6209.2	6269.0	6337.2	6347.5
22.5°	13764.2	11549.3	7319.7	5554.8	5542.4	5775.7	5942.9	6079.1	6033.7	5967.7	6011.0
25°	13594.9	11012.6	6518.8	5220.4	5346.3	5581.6	5788.1	5697.2	5544.5	5515.6	5532.1
27.5°	13293.6	10327.3	5777.7	4910.8	5119.3	5402.1	5389.7	5298.9	5245.2	5208.0	5230.7
30°	12969.5	9584.2	5129.6	4640.4	4867.4	5100.7	5053.2	5051.1	4997.5	4937.6	4966.5
32.5°	12649.5	8836.9	4615.6	4417.4	4677.5	4708.5	4811.7	4842.7	4737.4	4611.5	4603.2
35°	12370.9	8131.0	4225.5	4215.1	4448.4	4452.5	4603.2	4559.9	4297.7	4167.7	4167.7
37.5°	12162.4	7427.1	3928.2	4033.5	4147.0	4254.4	4330.7	4151.1	4107.8	4035.5	4033.5
40°	12071.6	6807.8	3742.4	3895.2	3934.4	4070.6	3874.5	3944.7	3965.4	3928.2	3928.2
42.5°	11976.6	6269.0	3581.4	3789.9	3783.7	3765.1	3666.1	3756.9	3839.4	3841.5	3835.3
45°	11881.6	5804.6	3439.0	3564.9	3651.6	3451.4	3470.0	3567.0	3682.6	3723.9	3723.9
47.5°	11776.4	5437.2	3308.9	3327.5	3461.7	3327.5	3313.1	3387.4	3523.6	3589.7	3604.1
50°	11545.2	5106.9	3160.3	3119.0	3156.2	3201.6	3214.0	3249.1	3399.8	3505.0	3529.8
52.5°	11225.2	4811.7	2970.4	2927.1	2927.1	3098.4	3156.2	3166.5	3294.5	3420.4	3445.2
55°	10958.9	4623.9	2774.3	2766.1	2757.8	2989.0	3088.1	3104.6	3193.3	3292.4	3304.8
57°	10977.5	4609.4	2623.6	2631.9	2629.8	2877.5	3024.1	3059.2	3104.6	3189.2	3203.7
57.5°	10987.8	4619.7	2590.6	2594.7	2592.7	2846.6	3005.5	3044.7	3079.8	3168.6	3183.0
60°	11142.7	4646.6	2456.4	2411.0	2421.3	2681.4	2900.2	2949.8	2972.5	3090.1	3108.7
62.5°	10913.5	4526.8	2349.1	2239.7	2239.7	2508.0	2753.7	2832.1	2867.2	3026.1	3057.1
65°	10248.8	4190.4	2223.2	2045.6	2066.3	2334.6	2578.2	2706.2	2759.9	2958.0	2991.1
67.5°	9222.9	3800.2	2089.0	1872.2	1892.9	2153.0	2396.6	2534.9	2619.5	2883.7	2910.5
70°	7887.4	3323.4	1907.3	1688.5	1713.3	1954.8	2181.9	2338.8	2464.7	2813.5	2821.8
72.5°	5814.9	2724.8	1653.4	1486.2	1513.1	1723.6	1965.1	2146.8	2316.1	2638.1	2633.9
75°	3457.6	2130.3	1372.7	1281.9	1300.5	1496.6	1769.0	1989.9	2243.8	2570.0	2609.2
77.5°	2097.2	1603.9	1118.8	1073.4	1096.1	1296.3	1628.7	1864.0	2212.8	2423.4	2411.0
80°	1267.4	1145.6	893.8	864.9	887.6	1108.5	1506.9	1769.0	1934.2	2070.4	2070.4
82.5°	662.6	699.8	656.4	633.7	664.7	900.0	1370.6	1544.0	1709.2	1467.7	1370.6
85°	270.4	365.4	398.4	396.3	414.9	623.4	1182.8	1321.1	1102.3	1046.6	1071.3
87.5°	90.8	154.8	194.0	167.2	175.5	392.2	819.5	637.8	757.6	528.4	501.6
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)