

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: P317532

Luminaire Tested: **GAN-SA8C-760-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317532
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-SA8C-760-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 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: 59055 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 445
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

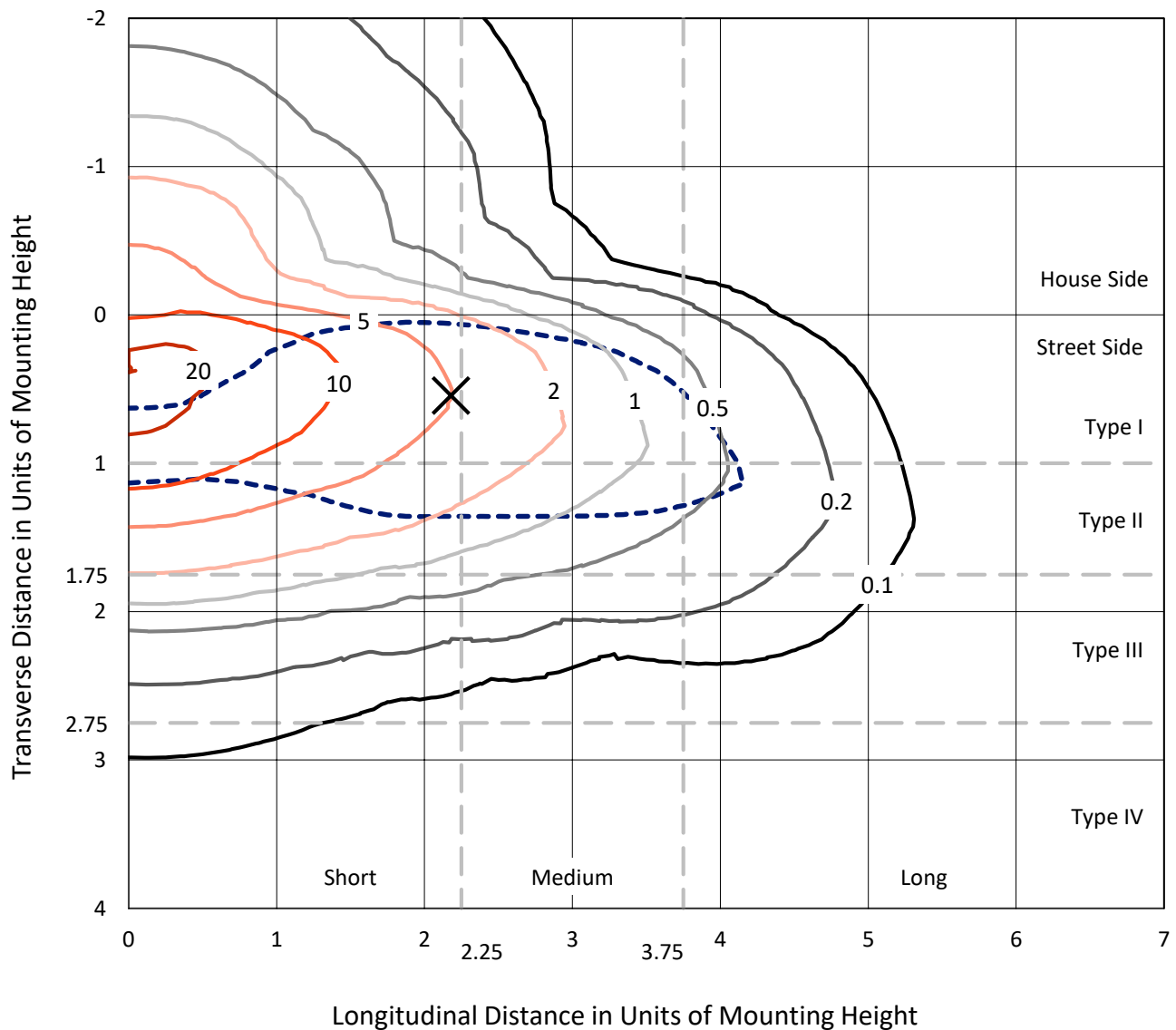


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Iso-Footcandle Lines of Horizontal Illumination

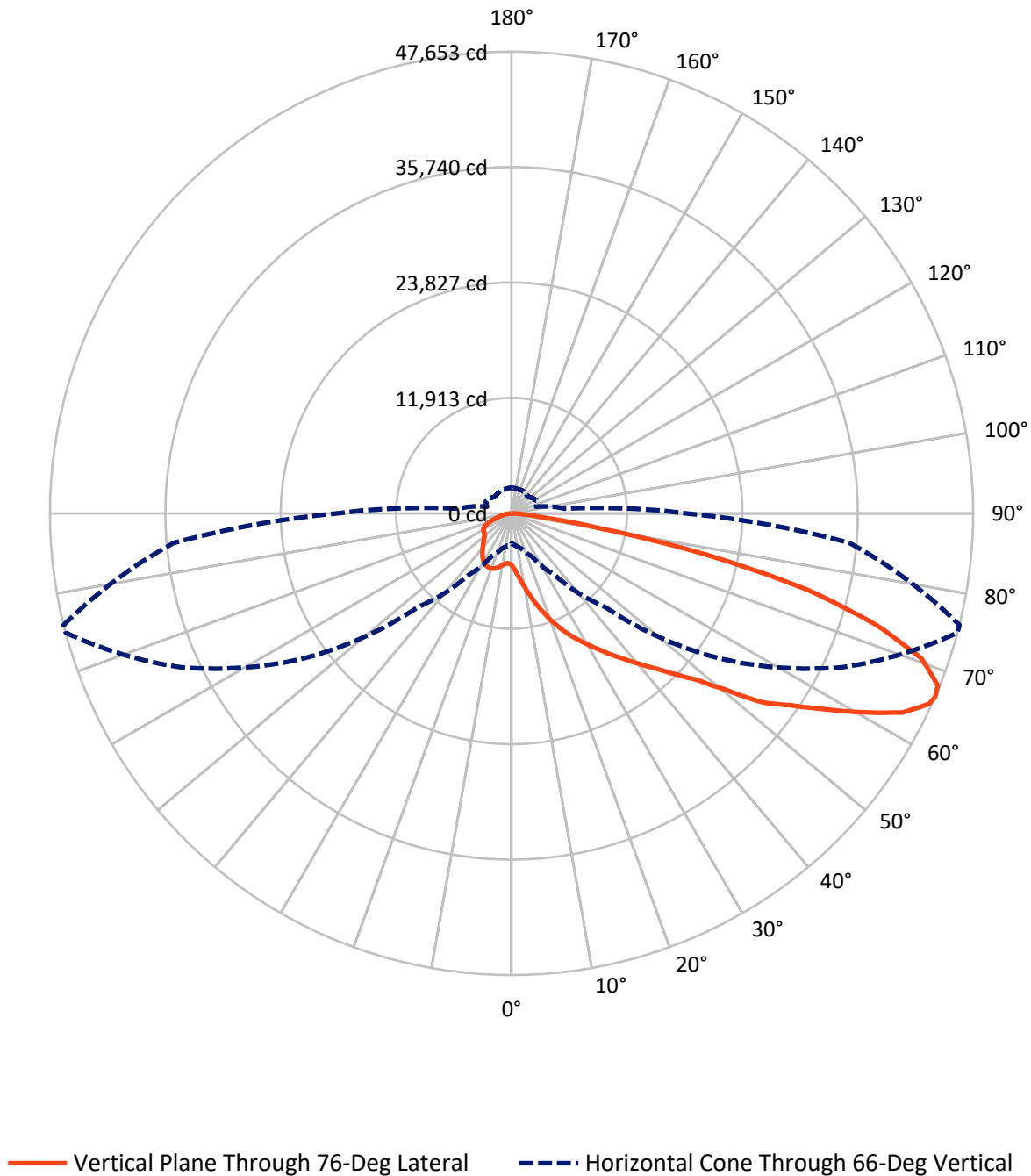
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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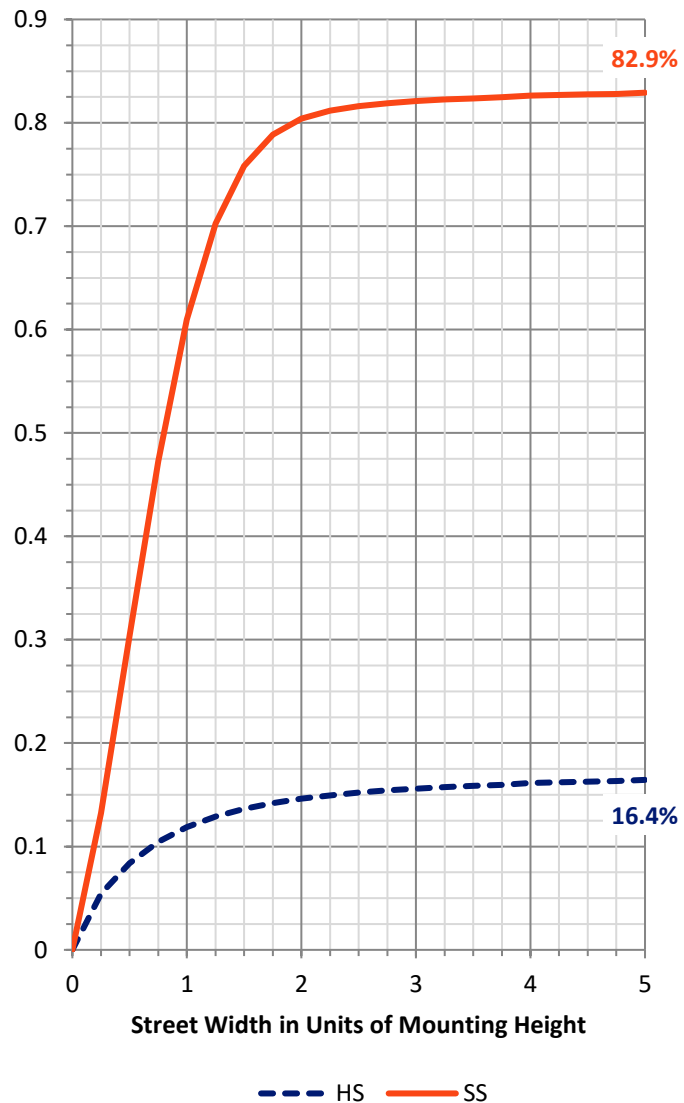
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9936.9	0.0	9936.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	49118.1	0.0	49118.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	59055.0	0.0	59055.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.2	1.1
10°-20°	2575.4	4.4
20°-30°	5004.6	8.5
30°-40°	8168.5	13.8
40°-50°	11160.2	18.9
50°-60°	12999.4	22.0
60°-70°	11654.2	19.7
70°-80°	5889.5	10.0
80°-90°	951.1	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°	59055.0	100.0
0°-180°	59055.0	100.0

Coefficient of Utilization



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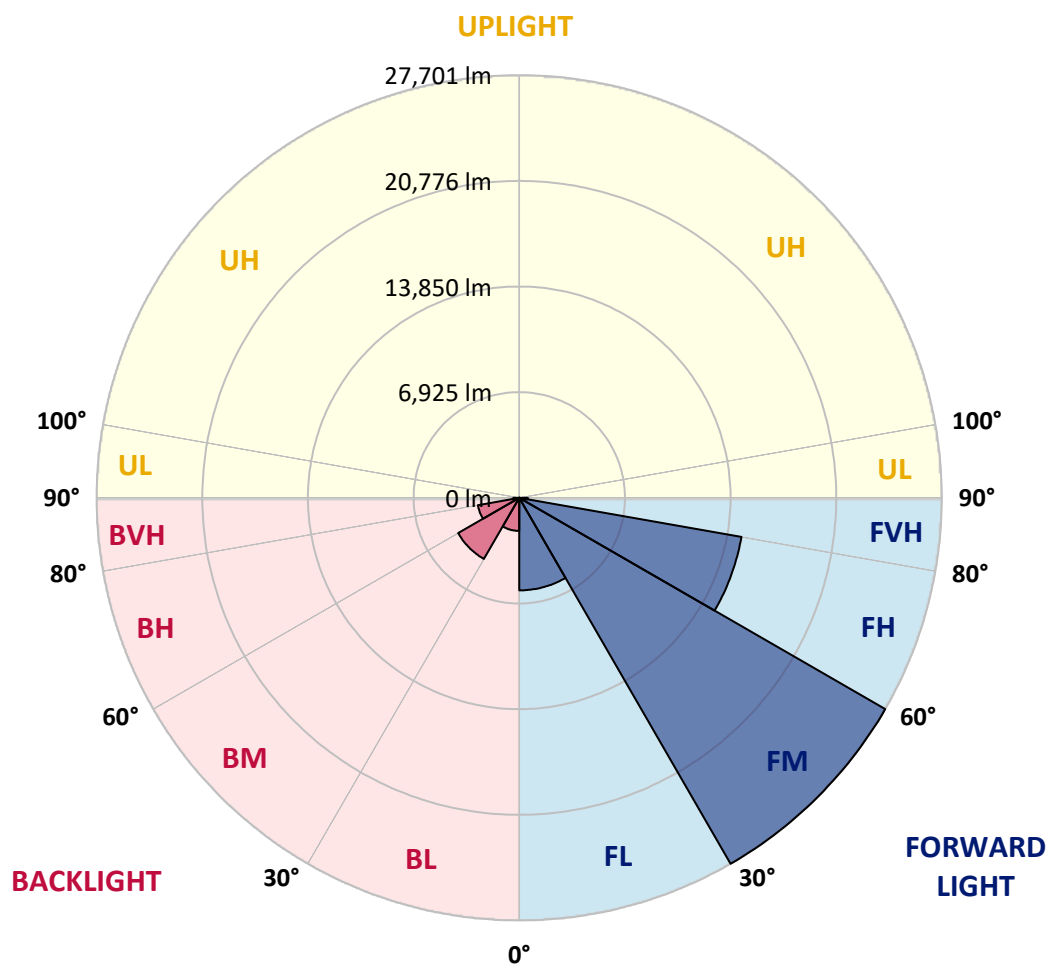
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6064.8	10.3			
FM	(30°-60°)	27700.9	46.9			
FH	(60°-80°)	14790.7	25.0			G5
FVH	(80°-90°)	561.7	1.0			G4/750
BL	(0°-30°)	2167.3	3.7	B3/2500		
BM	(30°-60°)	4627.2	7.8	B3/5000		
BH	(60°-80°)	2753.0	4.7	B4/5000		G4/5000
BVH	(80°-90°)	389.4	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-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5393.1	5393.1	5393.1	5393.1	5393.1	5393.1	5393.1	5393.1	5393.1	5393.1	5393.1
2.5°	7159.3	7051.1	7041.0	6882.7	6846.6	6543.8	6321.3	6088.7	5824.1	5772.0	5563.5
5°	9196.3	9186.2	9047.9	8789.3	8586.8	8069.5	7558.3	7017.0	6423.5	6327.3	5858.2
7.5°	11028.7	11012.7	10906.4	10627.7	10335.0	9699.5	8969.7	8139.7	7177.4	7035.0	6257.1
10°	12420.1	12414.0	12378.0	12173.5	11924.9	11315.4	10509.4	9376.7	8053.5	7859.0	6756.4
12.5°	13494.7	13506.7	13530.8	13458.6	13340.3	12821.0	11995.0	10687.9	8987.8	8795.3	7311.7
15°	14222.4	14258.5	14382.8	14485.1	14547.2	14228.4	13428.5	12029.1	10034.3	9803.7	7927.2
17.5°	14589.3	14629.4	14843.9	15152.7	15437.4	15405.3	14769.7	13308.2	11038.7	10816.2	8588.8
20°	14906.1	14936.2	15176.7	15547.6	16050.8	16273.4	15916.5	14539.2	12139.4	11874.7	9290.5
22.5°	15824.3	15862.4	15934.6	16145.1	16590.2	16999.1	16826.7	15704.0	13147.8	12901.2	9956.1
25°	17596.6	17642.7	17486.3	17307.9	17392.1	17676.8	17708.9	16766.6	14170.3	13891.6	10671.8
27.5°	19731.8	19797.9	19531.3	19072.2	18671.2	18560.9	18522.8	17636.7	15146.7	14823.9	11379.5
30°	21822.8	21937.1	21590.3	20994.8	20259.0	19741.8	19358.9	18488.8	16109.0	15800.2	12047.2
32.5°	23865.8	23819.7	23316.4	22735.0	21872.9	21225.4	20299.1	19403.0	17191.6	16836.8	12710.8
35°	25265.2	25281.2	24814.1	24124.4	23302.4	22805.2	21558.2	20389.4	18296.3	17969.5	13464.6
37.5°	26456.0	26381.9	25852.6	25209.0	24501.3	24288.8	23031.7	21476.0	19493.2	19136.3	14266.5
40°	26853.0	26766.8	26419.9	25956.8	25389.5	25371.4	24657.7	22707.0	20846.5	20493.6	15170.7
42.5°	26612.4	26502.1	26359.8	26233.5	26059.1	26139.3	26185.4	24150.5	22334.1	21939.1	16217.3
45°	25724.3	25557.9	25658.1	25932.8	26311.7	26764.8	27564.7	25748.3	24000.1	23669.3	17446.2
47.5°	24359.0	24208.6	24521.4	25108.8	26139.3	27286.0	28869.9	27512.6	25988.9	25660.1	19196.5
50°	22438.3	22482.4	22929.5	23998.1	25555.9	27526.6	30477.8	29848.2	28879.9	28573.2	21584.2
52.5°	19286.7	19294.7	20553.7	22308.0	24521.4	27402.3	31369.9	32833.5	32827.5	32456.6	23857.7
55°	16359.6	16538.0	17534.4	19866.1	22845.3	26905.1	31993.4	34285.0	35419.7	34984.7	25976.9
57.5°	13500.7	13604.9	14549.2	16890.9	20453.5	25579.9	32633.0	36027.2	38407.0	38132.3	28611.3
60°	10248.8	10409.2	11385.6	13548.8	17394.1	23228.2	32693.1	37845.6	41977.6	41700.9	31552.4
62.5°	6652.1	6928.8	7843.0	9869.9	13693.1	19846.0	31297.8	39034.5	45361.8	45263.6	34162.7
65°	3823.3	4031.8	4667.3	6231.1	9446.9	15599.8	27979.7	38577.4	47444.8	47388.7	35139.1
66°	3123.6	3253.9	3741.1	4869.8	7794.9	13699.2	26051.1	37613.0	47651.3	47653.3	35026.8
67.5°	2498.0	2556.2	2774.7	3486.4	5751.9	10858.3	22604.7	35485.9	47394.7	47464.9	34303.0
70°	2067.0	2097.1	2165.2	2337.7	3139.6	6547.8	16044.8	29958.5	44818.5	44872.6	31478.2
72.5°	1854.5	1872.5	1898.6	1922.7	2215.4	3658.9	9799.7	23966.0	39295.1	39365.3	27173.8
75°	1680.1	1690.1	1686.1	1688.1	1858.5	2331.6	5064.3	17893.3	31772.9	31632.6	20816.4
77.5°	1475.6	1485.6	1465.5	1469.6	1644.0	1792.3	2520.1	12526.3	21441.9	20451.5	11728.4
80°	1247.0	1255.0	1247.0	1261.1	1431.5	1353.3	1465.5	7047.1	9480.9	8967.7	4170.1
82.5°	942.3	976.4	1000.4	1056.6	1178.9	962.3	980.4	2744.6	2887.0	2748.7	1279.1
85°	413.0	503.2	753.8	808.0	886.1	577.4	643.6	1118.7	1174.8	1138.8	465.1
87.5°	108.3	118.3	372.9	469.1	491.2	260.6	334.8	509.2	537.3	509.2	154.4
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°	5393.1	5393.1	5393.1	5393.1	5393.1	5393.1	5393.1	5393.1	5393.1	5393.1	5393.1
2.5°	5453.2	5355.0	5178.5	5022.2	4903.9	4823.7	4743.5	4703.4	4679.3	4655.3	4659.3
5°	5627.6	5429.1	5126.4	4911.9	4791.6	4715.4	4675.3	4659.3	4649.3	4625.2	4625.2
7.5°	5890.3	5609.6	5192.6	4972.0	4877.8	4819.7	4795.6	4787.6	4775.6	4747.5	4751.5
10°	6221.1	5828.1	5330.9	5116.4	5030.2	4966.0	4931.9	4919.9	4897.9	4865.8	4869.8
12.5°	6610.0	6098.8	5513.3	5288.8	5184.5	5098.3	5042.2	5008.1	4970.0	4927.9	4929.9
15°	7035.0	6393.5	5709.8	5443.2	5300.8	5180.5	5090.3	5032.2	4972.0	4919.9	4917.9
17.5°	7466.1	6678.2	5860.2	5527.4	5334.9	5176.5	5054.2	4964.0	4889.8	4825.7	4819.7
20°	7931.2	6934.8	5944.4	5519.4	5270.8	5082.3	4919.9	4807.6	4725.4	4661.3	4651.3
22.5°	8404.3	7175.4	5958.4	5437.2	5128.4	4897.9	4727.4	4603.1	4518.9	4452.8	4428.7
25°	8837.4	7361.8	5900.3	5278.8	4929.9	4681.3	4514.9	4388.6	4320.5	4242.3	4218.2
27.5°	9232.3	7492.1	5784.0	5076.3	4707.4	4462.8	4306.4	4198.2	4124.0	4063.8	4043.8
30°	9587.2	7562.3	5593.5	4835.7	4478.8	4256.3	4124.0	4049.8	3985.6	3909.5	3895.4
32.5°	9924.0	7562.3	5348.9	4573.1	4252.3	4073.9	3995.7	3949.6	3877.4	3803.2	3783.2
35°	10260.8	7516.2	5060.2	4298.4	4043.8	3943.5	3939.5	3885.4	3775.1	3674.9	3648.8
37.5°	10615.7	7422.0	4735.5	4041.8	3873.4	3885.4	3919.5	3799.2	3642.8	3500.5	3462.4
40°	11016.7	7291.6	4398.6	3819.2	3731.0	3859.3	3865.4	3674.9	3370.2	3239.8	3205.8
42.5°	11487.8	7161.3	4085.9	3622.8	3618.8	3781.2	3763.1	3406.2	3223.8	3157.6	3139.6
45°	12107.3	7087.2	3789.2	3436.3	3530.5	3654.8	3588.7	3257.9	3181.7	3143.6	3127.6
47.5°	13083.7	7125.2	3516.5	3288.0	3442.3	3528.5	3263.9	3197.7	3143.6	3097.5	3081.5
50°	14306.6	7103.2	3296.0	3185.7	3342.1	3396.2	3117.5	3119.6	3091.5	3039.4	3015.3
52.5°	15226.9	6930.8	3153.6	3127.6	3253.9	3161.7	3025.3	3043.4	3029.3	2953.1	2927.1
55°	16115.0	6782.4	3081.5	3105.5	3189.7	2868.9	2917.1	2961.2	2947.1	2873.0	2860.9
57.5°	17219.7	6754.3	3037.4	3111.5	3135.6	2722.6	2812.8	2870.9	2860.9	2828.8	2822.8
60°	18573.0	6762.4	2997.3	3121.6	3075.4	2614.3	2714.6	2788.7	2794.8	2788.7	2784.7
62.5°	19316.8	6543.8	2897.0	3093.5	2969.2	2520.1	2612.3	2720.6	2722.6	2734.6	2732.6
65°	18685.2	5890.3	2710.6	2995.2	2790.8	2441.9	2524.1	2642.4	2612.3	2666.5	2666.5
66°	18071.7	5513.3	2618.3	2931.1	2714.6	2411.8	2496.0	2602.3	2564.2	2638.4	2638.4
67.5°	16818.7	4877.8	2451.9	2794.8	2606.3	2369.7	2464.0	2536.1	2484.0	2594.3	2586.3
70°	14529.2	3773.1	2117.1	2486.0	2427.9	2307.6	2419.9	2403.8	2327.6	2496.0	2464.0
72.5°	12249.6	2866.9	1700.1	2081.0	2157.2	2229.4	2357.7	2235.4	2139.2	2257.5	2187.3
75°	9505.0	2155.2	1343.3	1617.9	1822.4	2107.1	2283.5	2040.9	1902.6	1890.6	1852.5
77.5°	5138.4	1479.6	1064.6	1235.0	1447.5	1954.7	2233.4	1832.4	1623.9	1575.8	1545.7
80°	2034.9	962.3	773.9	936.3	1012.5	1734.2	2113.1	1589.8	1339.2	1291.1	1245.0
82.5°	840.0	569.4	499.2	627.5	659.6	1483.6	1896.6	1303.2	1034.5	1431.5	1519.7
85°	360.9	312.8	296.7	324.8	372.9	1040.5	1509.7	994.4	1116.7	996.4	791.9
87.5°	108.3	132.3	126.3	124.3	136.3	248.6	803.9	553.3	820.0	310.8	232.6
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)