

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: P317541

Luminaire Tested: **GAN-SA7D-760-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317541
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-SA7D-760-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57175 lumens
Efficiency: N/A
Efficacy: 127.6 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): 448
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

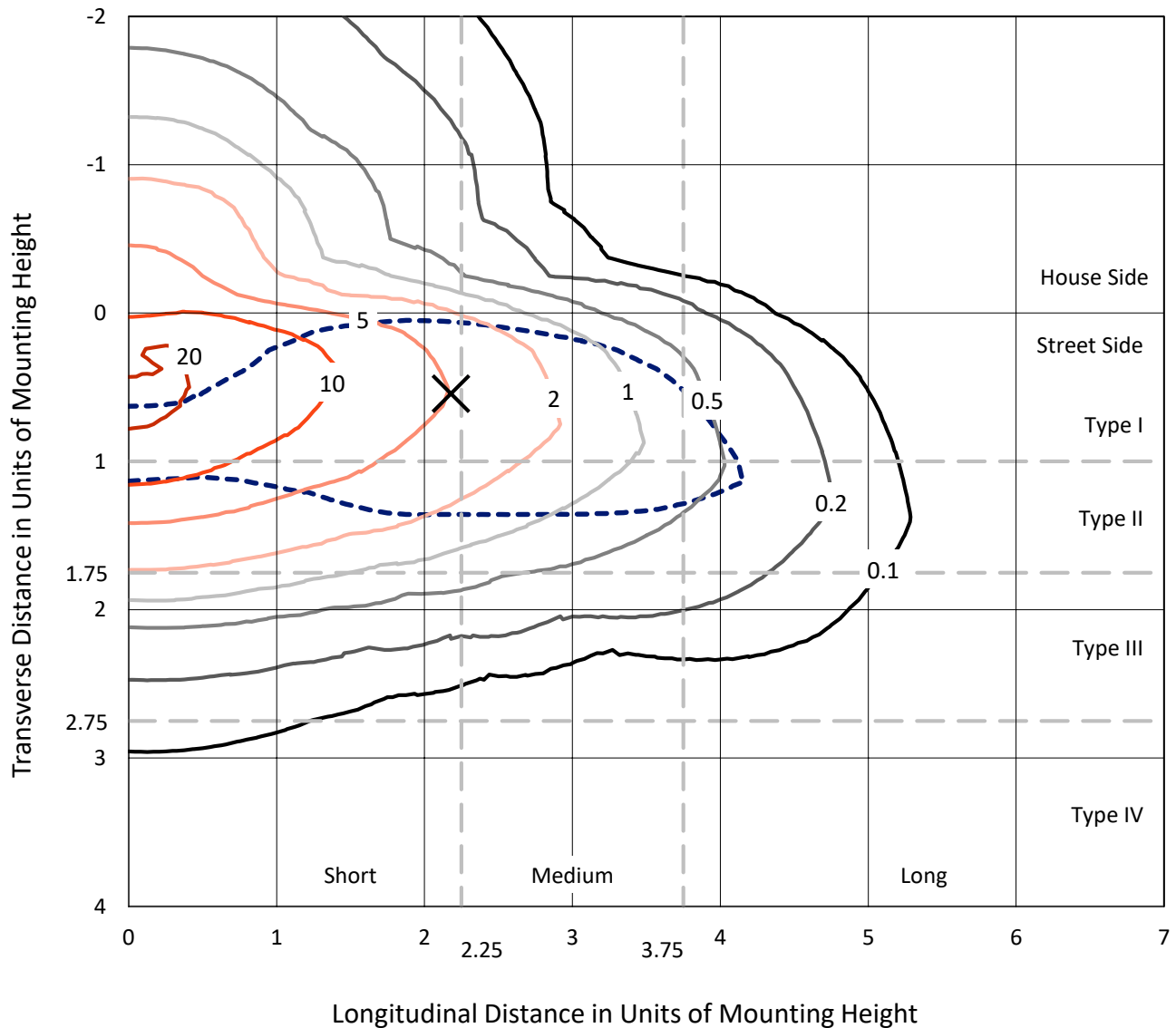


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Iso-Footcandle Lines of Horizontal Illumination

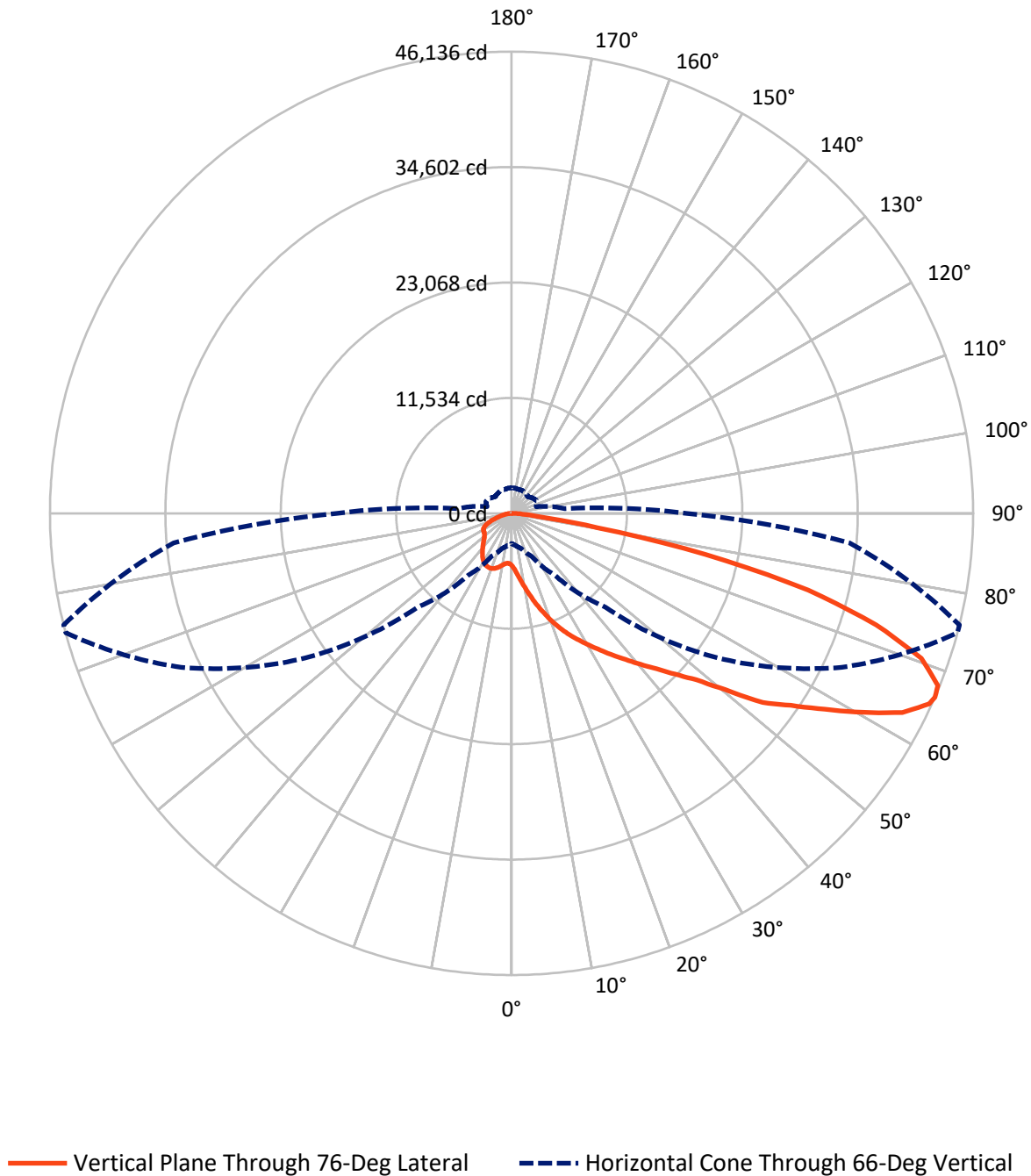
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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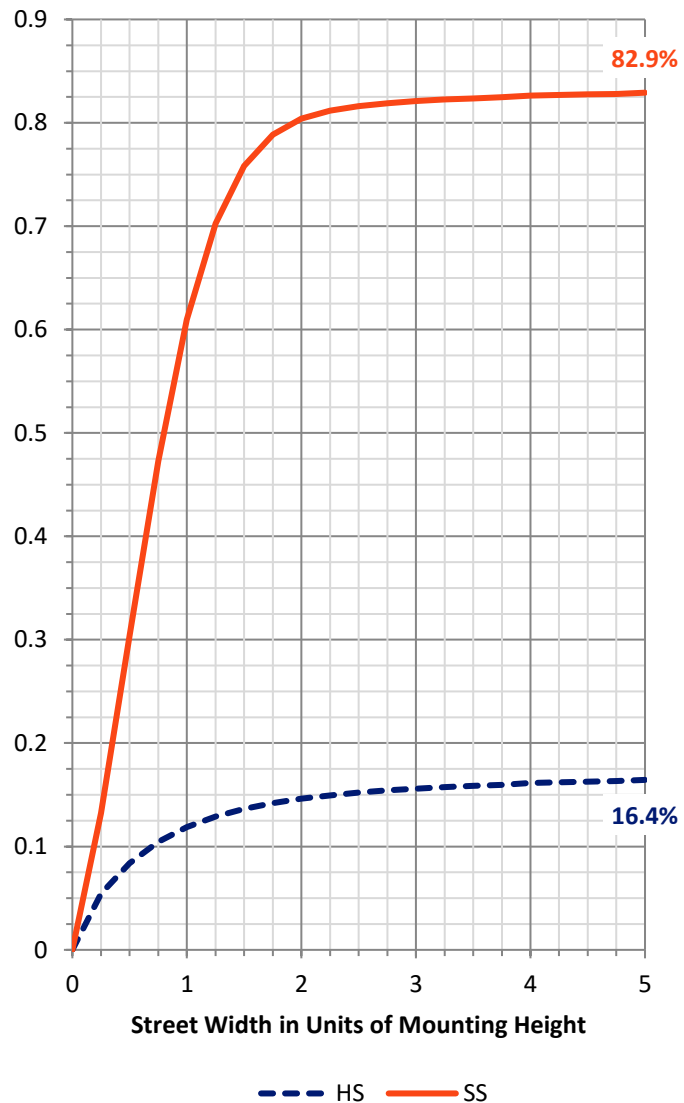
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9620.6	0.0	9620.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	47554.4	0.0	47554.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	57175.0	0.0	57175.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	631.4	1.1
10°-20°	2493.4	4.4
20°-30°	4845.2	8.5
30°-40°	7908.5	13.8
40°-50°	10804.9	18.9
50°-60°	12585.6	22.0
60°-70°	11283.2	19.7
70°-80°	5702.0	10.0
80°-90°	920.8	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°	57175.0	100.0
0°-180°	57175.0	100.0

Coefficient of Utilization



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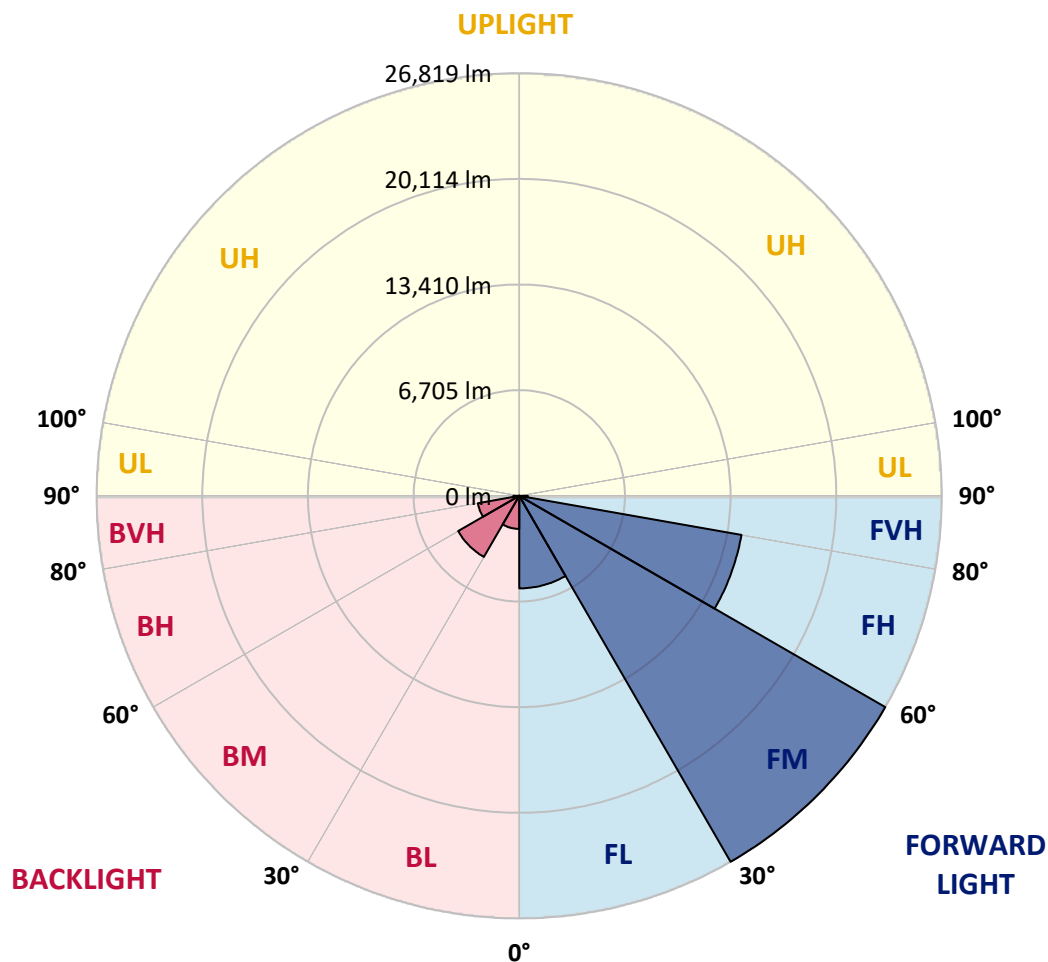
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5871.7	10.3			
FM	(30°-60°)	26819.0	46.9			
FH	(60°-80°)	14319.9	25.0			G5
FVH	(80°-90°)	543.8	1.0			G4/750
BL	(0°-30°)	2098.3	3.7	B3/2500		
BM	(30°-60°)	4479.9	7.8	B3/5000		
BH	(60°-80°)	2665.4	4.7	B4/5000		G4/5000
BVH	(80°-90°)	377.0	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°	5221.4	5221.4	5221.4	5221.4	5221.4	5221.4	5221.4	5221.4	5221.4	5221.4	5221.4
2.5°	6931.4	6826.6	6816.9	6663.6	6628.6	6335.5	6120.1	5894.9	5638.7	5588.2	5386.4
5°	8903.5	8893.8	8759.9	8509.5	8313.4	7812.6	7317.7	6793.6	6219.1	6125.9	5671.7
7.5°	10677.6	10662.1	10559.2	10289.4	10006.0	9390.7	8684.2	7880.6	6948.9	6811.1	6058.0
10°	12024.7	12018.8	11983.9	11785.9	11545.2	10955.2	10174.9	9078.2	7797.1	7608.8	6541.3
12.5°	13065.1	13076.7	13100.0	13030.1	12915.6	12412.9	11613.2	10347.6	8701.6	8515.3	7078.9
15°	13769.7	13804.6	13924.9	14023.9	14084.1	13775.5	13001.0	11646.2	9714.8	9491.6	7674.8
17.5°	14124.9	14163.7	14371.4	14670.3	14945.9	14914.9	14299.6	12884.5	10687.3	10471.8	8315.4
20°	14431.5	14460.7	14693.6	15052.7	15539.9	15755.3	15409.8	14076.3	11752.9	11496.7	8994.7
22.5°	15320.5	15357.4	15427.3	15631.1	16062.0	16458.0	16291.1	15204.1	12729.3	12490.5	9639.1
25°	17036.4	17081.1	16929.7	16756.9	16838.4	17114.0	17145.1	16232.8	13719.2	13449.4	10332.1
27.5°	19103.6	19167.7	18909.5	18465.0	18076.8	17970.0	17933.2	17075.2	14664.5	14352.0	11017.3
30°	21128.1	21238.7	20902.9	20326.5	19614.1	19113.3	18742.6	17900.2	15596.2	15297.2	11663.6
32.5°	23106.0	23061.4	22574.2	22011.3	21176.6	20549.7	19652.9	18785.3	16644.3	16300.8	12306.1
35°	24460.8	24476.4	24024.1	23356.4	22560.6	22079.2	20871.9	19740.3	17713.8	17397.4	13035.9
37.5°	25613.8	25542.0	25029.6	24406.5	23721.3	23515.6	22298.5	20792.3	18872.6	18527.1	13812.4
40°	25998.1	25914.7	25578.9	25130.5	24581.2	24563.7	23872.7	21984.1	20182.8	19841.2	14687.8
42.5°	25765.2	25658.5	25520.6	25398.4	25229.5	25307.1	25351.8	23381.6	21623.1	21240.7	15701.0
45°	24905.3	24744.2	24841.3	25107.2	25474.1	25912.7	26687.2	24928.6	23236.1	22915.8	16890.8
47.5°	23583.5	23437.9	23740.7	24309.4	25307.1	26417.4	27950.8	26636.7	25161.6	24843.2	18585.3
50°	21724.0	21766.7	22199.5	23234.1	24742.3	26650.3	29507.5	28898.0	27960.5	27663.5	20897.1
52.5°	18672.7	18680.5	19899.4	21597.8	23740.7	26530.0	30371.3	31788.2	31782.4	31423.3	23098.2
55°	15838.8	16011.5	16976.2	19233.7	22118.0	26048.6	30974.9	33193.5	34292.2	33870.9	25149.9
57.5°	13070.9	13171.8	14086.0	16353.2	19802.4	24765.6	31594.1	34880.3	37184.3	36918.4	27700.4
60°	9922.5	10077.8	11023.1	13117.5	16840.4	22488.8	31652.4	36640.8	40641.3	40373.4	30547.9
62.5°	6440.3	6708.2	7593.3	9555.7	13257.2	19214.2	30301.4	37791.8	43917.7	43822.6	33075.1
65°	3701.5	3903.4	4518.7	6032.7	9146.1	15103.1	27089.0	37349.3	45934.4	45880.1	34020.4
66°	3024.1	3150.3	3622.0	4714.8	7546.7	13263.0	25221.7	36415.6	46134.4	46136.3	33911.7
67.5°	2418.5	2474.8	2686.4	3375.4	5568.8	10512.6	21885.1	34356.2	45885.9	45953.9	33211.0
70°	2001.2	2030.3	2096.3	2263.2	3039.7	6339.4	15534.1	29004.8	43391.7	43444.1	30476.1
72.5°	1795.5	1812.9	1838.2	1861.4	2144.8	3542.4	9487.7	23203.1	38044.2	38112.1	26308.7
75°	1626.6	1636.3	1632.4	1634.3	1799.3	2257.4	4903.0	17323.7	30761.4	30625.5	20153.7
77.5°	1428.6	1438.3	1418.9	1422.8	1591.6	1735.3	2439.9	12127.5	20759.3	19800.4	11355.0
80°	1207.3	1215.1	1207.3	1220.9	1385.9	1310.2	1418.9	6822.7	9179.1	8682.2	4037.3
82.5°	912.3	945.3	968.6	1022.9	1141.3	931.7	949.2	2657.3	2795.1	2661.2	1238.4
85°	399.9	487.2	729.8	782.2	857.9	559.0	623.1	1083.1	1137.4	1102.5	450.3
87.5°	104.8	114.5	361.0	454.2	475.6	252.3	324.2	493.0	520.2	493.0	149.5
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°	5221.4	5221.4	5221.4	5221.4	5221.4	5221.4	5221.4	5221.4	5221.4	5221.4	5221.4
2.5°	5279.6	5184.5	5013.7	4862.3	4747.8	4670.1	4592.5	4553.7	4530.4	4507.1	4511.0
5°	5448.5	5256.3	4963.2	4755.5	4639.1	4565.3	4526.5	4511.0	4501.2	4478.0	4478.0
7.5°	5702.7	5431.0	5027.3	4813.8	4722.5	4666.2	4642.9	4635.2	4623.5	4596.4	4600.2
10°	6023.0	5642.6	5161.2	4953.5	4870.0	4807.9	4774.9	4763.3	4741.9	4710.9	4714.8
12.5°	6399.6	5904.6	5337.8	5120.4	5019.5	4936.0	4881.7	4848.7	4811.8	4771.0	4773.0
15°	6811.1	6189.9	5528.0	5269.9	5132.1	5015.6	4928.3	4872.0	4813.8	4763.3	4761.3
17.5°	7228.4	6465.6	5673.6	5351.4	5165.1	5011.7	4893.3	4806.0	4734.2	4672.1	4666.2
20°	7678.7	6714.0	5755.1	5343.7	5103.0	4920.5	4763.3	4654.6	4575.0	4512.9	4503.2
22.5°	8136.8	6946.9	5768.7	5264.1	4965.2	4741.9	4576.9	4456.6	4375.1	4311.0	4287.7
25°	8556.1	7127.5	5712.4	5110.7	4773.0	4532.3	4371.2	4248.9	4182.9	4107.2	4083.9
27.5°	8938.4	7253.6	5599.9	4914.7	4557.5	4320.7	4169.3	4064.5	3992.7	3934.5	3915.1
30°	9282.0	7321.6	5415.5	4681.8	4336.3	4120.8	3992.7	3920.9	3858.8	3785.0	3771.4
32.5°	9608.1	7321.6	5178.7	4427.5	4116.9	3944.2	3868.5	3823.8	3753.9	3682.1	3662.7
35°	9934.2	7276.9	4899.2	4161.6	3915.1	3818.0	3814.1	3761.7	3655.0	3557.9	3532.7
37.5°	10277.7	7185.7	4584.7	3913.1	3750.1	3761.7	3794.7	3678.2	3526.8	3389.0	3352.2
40°	10666.0	7059.5	4258.6	3697.7	3612.3	3736.5	3742.3	3557.9	3262.9	3136.7	3103.7
42.5°	11122.1	6933.4	3955.8	3507.4	3503.6	3660.8	3643.3	3297.8	3121.2	3057.1	3039.7
45°	11721.9	6861.5	3668.5	3326.9	3418.2	3538.5	3474.4	3154.2	3080.4	3043.5	3028.0
47.5°	12667.2	6898.4	3404.6	3183.3	3332.7	3416.2	3160.0	3095.9	3043.5	2998.9	2983.4
50°	13851.2	6877.1	3191.1	3084.3	3235.7	3288.1	3018.3	3020.2	2993.1	2942.6	2919.3
52.5°	14742.1	6710.1	3053.2	3028.0	3150.3	3061.0	2929.0	2946.5	2932.9	2859.1	2833.9
55°	15602.0	6566.5	2983.4	3006.7	3088.2	2777.6	2824.2	2866.9	2853.3	2781.5	2769.8
57.5°	16671.5	6539.3	2940.7	3012.5	3035.8	2635.9	2723.3	2779.6	2769.8	2738.8	2733.0
60°	17981.7	6547.1	2901.8	3022.2	2977.5	2531.1	2628.2	2700.0	2705.8	2700.0	2696.1
62.5°	18701.8	6335.5	2804.8	2995.0	2874.7	2439.9	2529.2	2634.0	2635.9	2647.6	2645.6
65°	18090.4	5702.7	2624.3	2899.9	2701.9	2364.2	2443.8	2558.3	2529.2	2581.6	2581.6
66°	17496.4	5337.8	2535.0	2837.8	2628.2	2335.1	2416.6	2519.5	2482.6	2554.4	2554.4
67.5°	16283.3	4722.5	2373.9	2705.8	2523.3	2294.3	2385.5	2455.4	2404.9	2511.7	2503.9
70°	14066.6	3653.0	2049.7	2406.9	2350.6	2234.1	2342.8	2327.3	2253.5	2416.6	2385.5
72.5°	11859.7	2775.7	1646.0	2014.8	2088.5	2158.4	2282.6	2164.2	2071.1	2185.6	2117.7
75°	9202.4	2086.6	1300.5	1566.4	1764.4	2040.0	2210.8	1976.0	1842.0	1830.4	1793.5
77.5°	4974.9	1432.5	1030.7	1195.7	1401.4	1892.5	2162.3	1774.1	1572.2	1525.6	1496.5
80°	1970.1	931.7	749.2	906.5	980.2	1679.0	2045.8	1539.2	1296.6	1250.0	1205.4
82.5°	813.3	551.3	483.3	607.5	638.6	1436.4	1836.2	1261.7	1001.6	1385.9	1471.3
85°	349.4	302.8	287.3	314.4	361.0	1007.4	1461.6	962.8	1081.2	964.7	766.7
87.5°	104.8	128.1	122.3	120.3	132.0	240.7	778.4	535.7	793.9	300.9	225.2
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)