

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: P318204

Luminaire Tested: **GAN-SA0B-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0B-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40805 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

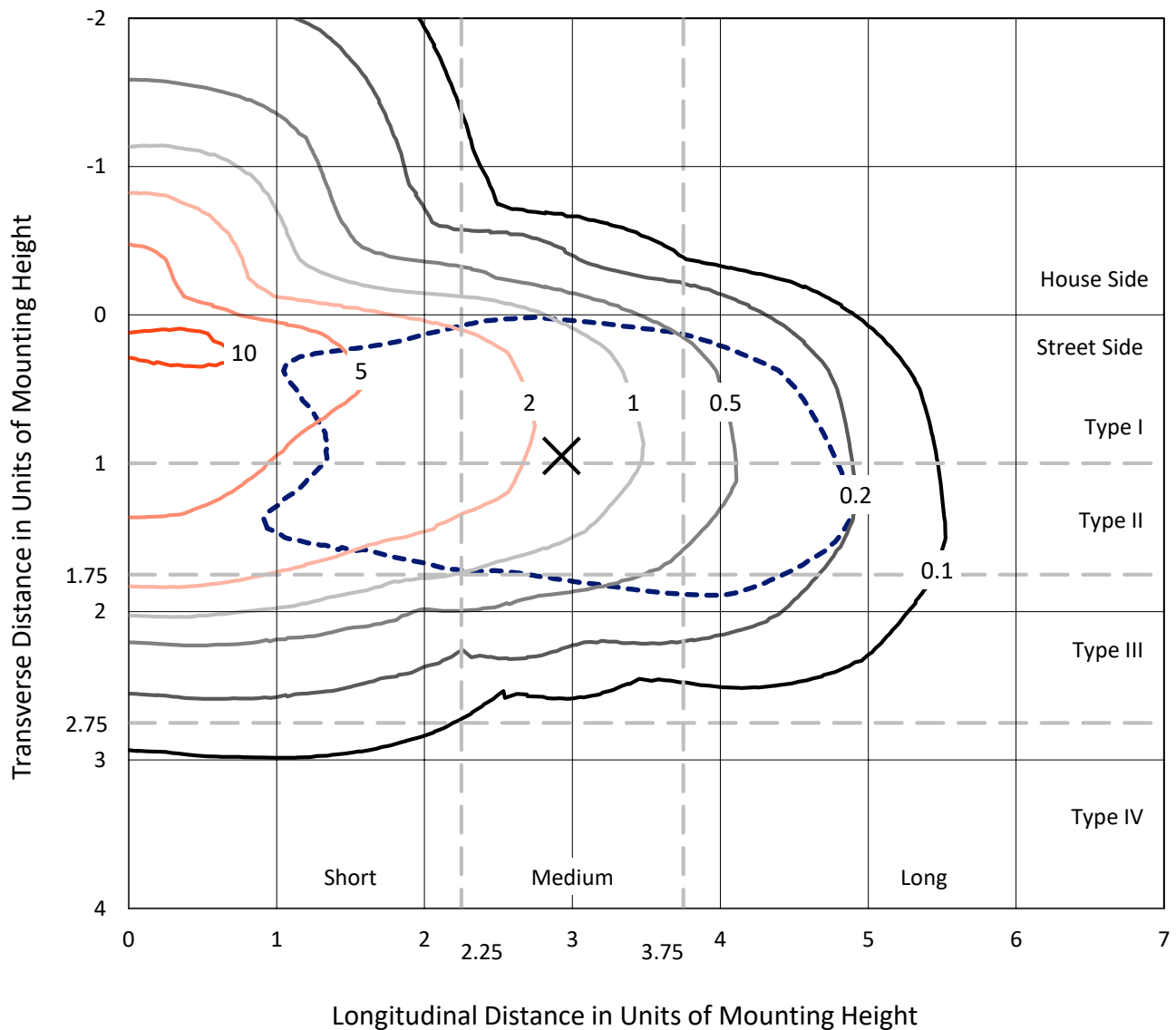
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

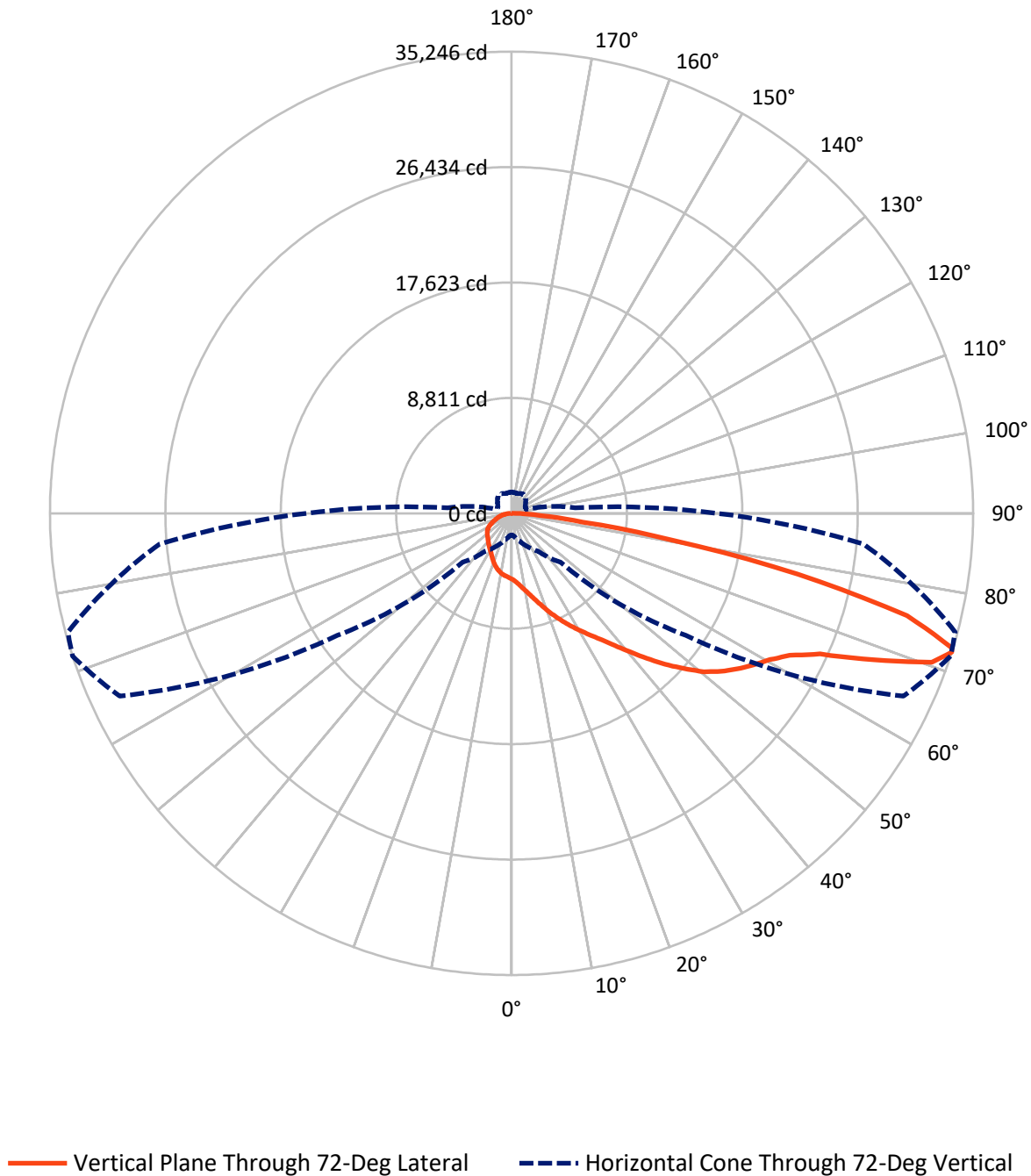
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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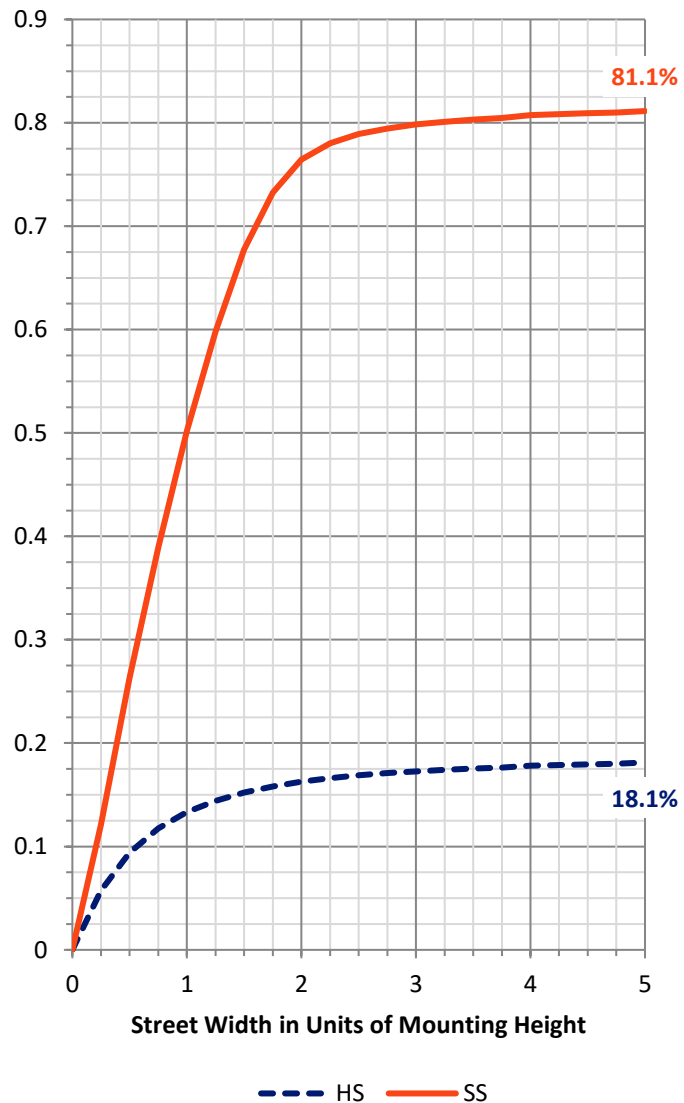
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7569.6	0.0	7569.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	33235.4	0.0	33235.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	40805.0	0.0	40805.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.0	1.2
10°-20°	1625.5	4.0
20°-30°	2848.5	7.0
30°-40°	4223.4	10.4
40°-50°	6177.0	15.1
50°-60°	8499.5	20.8
60°-70°	9462.5	23.2
70°-80°	6411.8	15.7
80°-90°	1053.8	2.6
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°	40805.0	100.0
0°-180°	40805.0	100.0

Coefficient of Utilization



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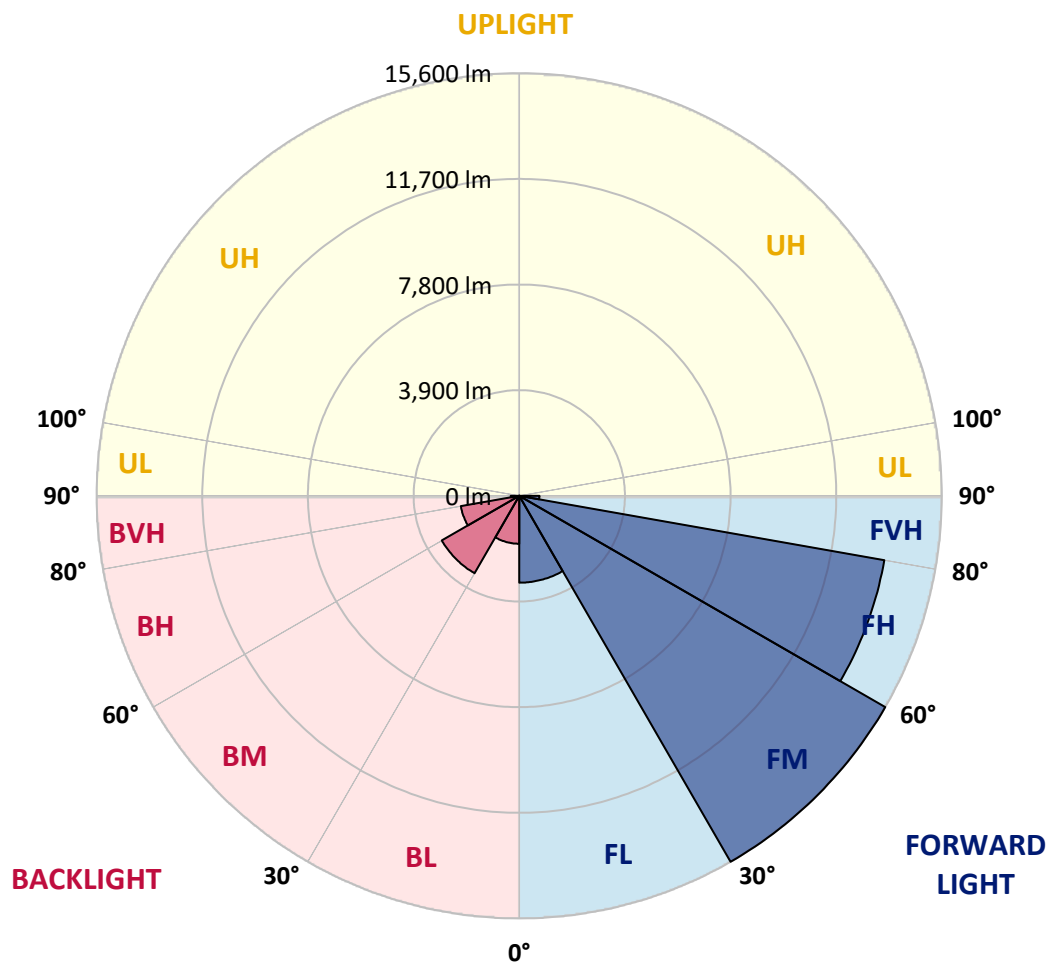
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3207.5	7.9			
FM	(30°-60°)	15600.3	38.2			
FH	(60°-80°)	13684.3	33.5			G5
FVH	(80°-90°)	743.4	1.8			G4/750
BL	(0°-30°)	1769.5	4.3	B3/2500		
BM	(30°-60°)	3299.6	8.1	B3/5000		
BH	(60°-80°)	2190.0	5.4	B3/2500		G3/2500
BVH	(80°-90°)	310.5	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5020.1	5020.1	5020.1	5020.1	5020.1	5020.1	5020.1	5020.1	5020.1	5020.1	5020.1
2.5°	5545.6	5537.1	5507.6	5507.6	5451.4	5403.6	5313.7	5253.3	5181.7	5156.4	5072.1
5°	6082.3	6085.1	6048.5	6023.3	5940.4	5839.2	5686.1	5547.0	5407.9	5351.7	5178.8
7.5°	6533.3	6527.6	6517.8	6496.7	6419.5	6315.5	6109.0	5902.4	5697.3	5613.0	5315.1
10°	6822.7	6835.3	6843.8	6853.6	6821.3	6746.8	6551.5	6300.0	6031.7	5916.5	5478.1
12.5°	6968.8	6991.3	7030.6	7098.1	7151.5	7143.0	7001.1	6734.2	6415.2	6270.5	5681.8
15°	7054.5	7084.0	7145.9	7266.7	7417.0	7502.7	7464.8	7223.1	6867.7	6689.2	5930.5
17.5°	7107.9	7131.8	7227.3	7388.9	7612.3	7839.9	7939.7	7737.4	7379.1	7175.4	6215.7
20°	7144.4	7162.7	7282.1	7471.8	7761.2	8123.7	8401.9	8351.3	7942.5	7678.3	6513.6
22.5°	7225.9	7241.4	7355.2	7546.3	7866.6	8334.5	8847.3	8923.2	8536.8	8237.5	6832.5
25°	7453.5	7453.5	7549.1	7682.6	7983.2	8517.1	9223.9	9559.6	9143.8	8795.3	7127.6
27.5°	7887.7	7883.5	7918.6	7965.0	8192.6	8702.6	9559.6	10121.6	9773.2	9392.5	7414.2
30°	8401.9	8430.0	8434.2	8411.8	8518.5	8934.4	9870.2	10714.6	10406.9	9996.6	7707.9
32.5°	9063.7	9081.9	9060.9	8986.4	8971.0	9263.2	10175.0	11335.6	11092.5	10627.5	7976.2
35°	9903.9	9868.7	9802.7	9651.0	9506.3	9703.0	10523.5	11956.6	11862.4	11390.4	8345.7
37.5°	10804.5	10805.9	10724.4	10380.2	10180.7	10265.0	11004.0	12660.5	12794.0	12298.0	8819.2
40°	11526.7	11564.6	11615.2	11162.8	10904.2	11020.9	11615.2	13476.8	13895.5	13374.2	9436.0
42.5°	12031.0	12074.6	12217.9	11934.1	11665.7	11882.1	12334.5	14347.9	15131.9	14616.3	10158.2
45°	12565.0	12588.8	12690.0	12567.8	12396.4	12883.9	13145.2	15249.9	16440.0	15939.8	10966.1
47.5°	13127.0	13152.2	13256.2	13174.7	13084.8	13819.6	13991.0	16099.9	17693.2	17394.0	11828.7
50°	13821.0	13837.9	13936.2	13788.7	13816.8	14524.9	14746.9	16879.7	19006.9	18700.6	12694.2
52.5°	14768.0	14772.2	14908.5	14775.0	14643.0	15042.0	15397.4	17614.5	20036.8	19892.0	13559.7
55°	15509.8	15554.8	16001.6	15973.5	15897.6	15511.2	15941.2	18314.2	20955.6	21024.5	14478.6
57.5°	15036.4	15212.0	16116.8	16754.7	17375.7	16678.8	16676.0	19102.4	21809.9	22135.8	15488.8
60°	13169.1	13408.0	14741.3	16156.1	18099.3	18710.4	18201.8	20064.9	22672.6	23237.4	16754.7
62.5°	9405.1	9798.5	11605.3	13864.6	17107.3	20056.4	21306.9	21592.1	23845.7	24513.1	18399.9
65°	4754.5	5052.4	6567.0	9288.5	13667.9	19176.9	24681.7	24936.0	25884.4	26477.3	20933.2
67.5°	2888.7	3001.1	3740.1	5166.2	8379.4	14938.0	25783.2	30509.7	29829.6	30144.4	24545.4
70°	2128.6	2211.5	2672.3	3431.0	4819.2	8765.8	22402.8	34487.2	34040.4	34005.3	27214.9
72°	1657.9	1718.3	2125.8	2772.1	3523.8	5258.9	16237.6	33019.0	35245.9	35068.9	26970.5
72.5°	1572.2	1625.6	1996.5	2609.1	3329.9	4767.2	14599.4	32028.5	35158.8	35078.7	26654.3
75°	1237.8	1275.7	1478.1	2017.6	2606.3	2704.6	8000.1	24820.8	31189.7	32486.5	23973.6
77.5°	1024.2	1029.9	1136.6	1468.2	2031.6	1912.2	3929.8	17221.1	22333.9	23760.0	16982.3
80°	834.6	841.6	892.2	1029.9	1537.1	1414.8	1865.8	9902.5	12504.5	12520.0	8076.0
82.5°	664.6	666.0	722.2	753.1	1104.3	1011.6	1069.2	4649.2	5464.1	5256.1	2902.7
85°	467.9	458.0	705.3	618.2	722.2	649.1	590.1	1840.6	2259.2	2160.9	909.0
87.5°	156.0	161.6	313.3	400.4	421.5	368.1	262.7	705.3	852.8	845.8	288.0
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°	5020.1	5020.1	5020.1	5020.1	5020.1	5020.1	5020.1	5020.1	5020.1	5020.1	5020.1
2.5°	5045.4	5000.4	4934.4	4861.3	4803.7	4744.7	4701.1	4678.7	4653.4	4632.3	4657.6
5°	5098.8	5014.5	4874.0	4736.3	4635.1	4545.2	4480.6	4446.8	4415.9	4394.9	4397.7
7.5°	5185.9	5049.6	4813.5	4612.6	4472.1	4375.2	4309.1	4286.7	4267.0	4261.4	4268.4
10°	5278.6	5077.7	4733.5	4466.5	4306.3	4226.3	4196.7	4212.2	4226.3	4238.9	4252.9
12.5°	5384.0	5103.0	4616.8	4295.1	4158.8	4127.9	4157.4	4224.8	4274.0	4303.5	4321.8
15°	5521.7	5125.5	4482.0	4123.7	4032.4	4067.5	4167.2	4283.9	4369.6	4424.4	4432.8
17.5°	5648.1	5124.0	4309.1	3950.9	3929.8	4032.4	4182.7	4347.1	4462.3	4539.6	4555.0
20°	5778.8	5086.1	4108.2	3782.3	3825.8	3994.4	4189.7	4387.8	4526.9	4616.8	4637.9
22.5°	5901.0	5020.1	3887.6	3629.1	3738.7	3943.8	4163.0	4363.9	4503.0	4576.1	4598.6
25°	5983.9	4904.9	3664.3	3499.9	3661.4	3882.0	4075.9	4237.5	4341.5	4378.0	4383.6
27.5°	6026.1	4754.5	3453.5	3387.5	3581.4	3780.9	3914.3	3994.4	4023.9	4021.1	4015.5
30°	6031.7	4556.4	3272.3	3296.1	3488.6	3631.9	3695.2	3679.7	3641.8	3577.1	3582.8
32.5°	6013.4	4333.0	3120.5	3209.0	3370.6	3450.7	3453.5	3379.0	3277.9	3175.3	3147.2
35°	6019.0	4113.9	2987.0	3110.7	3227.3	3262.4	3230.1	3120.5	2982.8	2850.8	2822.7
37.5°	6080.9	3922.8	2871.8	2996.9	3068.5	3077.0	3030.6	2915.4	2814.2	2685.0	2673.7
40°	6228.4	3786.5	2762.2	2869.0	2909.8	2914.0	2847.9	2766.5	2774.9	2706.0	2704.6
42.5°	6493.9	3727.5	2665.3	2735.5	2760.8	2769.3	2718.7	2666.7	2739.8	2694.8	2679.3
45°	6836.7	3741.5	2583.8	2604.9	2651.2	2690.6	2659.7	2596.4	2624.5	2429.3	2364.6
47.5°	7233.0	3831.4	2519.2	2492.5	2572.6	2647.0	2599.3	2503.7	2404.0	2210.1	2173.5
50°	7696.6	3970.5	2460.2	2381.5	2486.9	2588.0	2540.2	2404.0	2253.6	2159.5	2146.8
52.5°	8179.9	4140.5	2401.2	2259.2	2378.7	2543.1	2519.2	2381.5	2196.0	2103.3	2086.4
55°	8727.9	4312.0	2326.7	2117.3	2262.1	2522.0	2509.3	2300.0	2152.5	2100.5	2087.8
57.5°	9409.3	4507.3	2228.3	1969.8	2152.5	2446.1	2406.8	2250.8	2107.5	2068.2	2064.0
60°	10297.3	4795.3	2086.4	1812.5	2019.0	2329.5	2321.1	2179.2	2035.9	2007.8	2002.1
62.5°	11629.2	5271.6	1891.1	1655.1	1870.1	2131.4	2208.7	2082.2	1960.0	1958.6	1961.4
65°	13694.6	5988.1	1679.0	1517.4	1719.7	1964.2	2078.0	1982.5	1882.7	1910.8	1915.0
67.5°	16088.7	6582.4	1471.0	1382.5	1566.6	1805.4	1960.0	1882.7	1780.1	1853.2	1854.6
70°	16885.3	6051.4	1288.4	1249.0	1407.8	1652.3	1832.1	1773.1	1669.1	1742.2	1735.2
72°	15713.6	4885.2	1170.4	1147.9	1288.4	1525.8	1718.3	1670.5	1568.0	1617.2	1598.9
72.5°	15344.0	4657.6	1140.9	1122.6	1256.1	1493.5	1688.8	1645.3	1542.7	1584.8	1568.0
75°	13687.5	4045.0	980.7	984.9	1095.9	1336.2	1523.0	1509.0	1403.6	1407.8	1402.2
77.5°	9927.8	2966.0	826.1	854.2	932.9	1174.6	1355.8	1347.4	1232.2	1211.1	1206.9
80°	4607.0	1513.2	673.0	685.6	767.1	982.1	1156.3	1145.1	1052.3	1025.7	1010.2
82.5°	1577.8	719.4	505.8	514.2	594.3	791.0	1003.2	996.1	918.9	866.9	834.6
85°	563.4	358.3	354.1	345.6	424.3	622.4	873.9	836.0	722.2	615.4	612.6
87.5°	182.7	153.1	182.7	181.2	247.3	421.5	635.1	540.9	524.1	435.6	427.1
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)