

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: P319279

Luminaire Tested: **GAN-SA5B-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23400 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 210
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

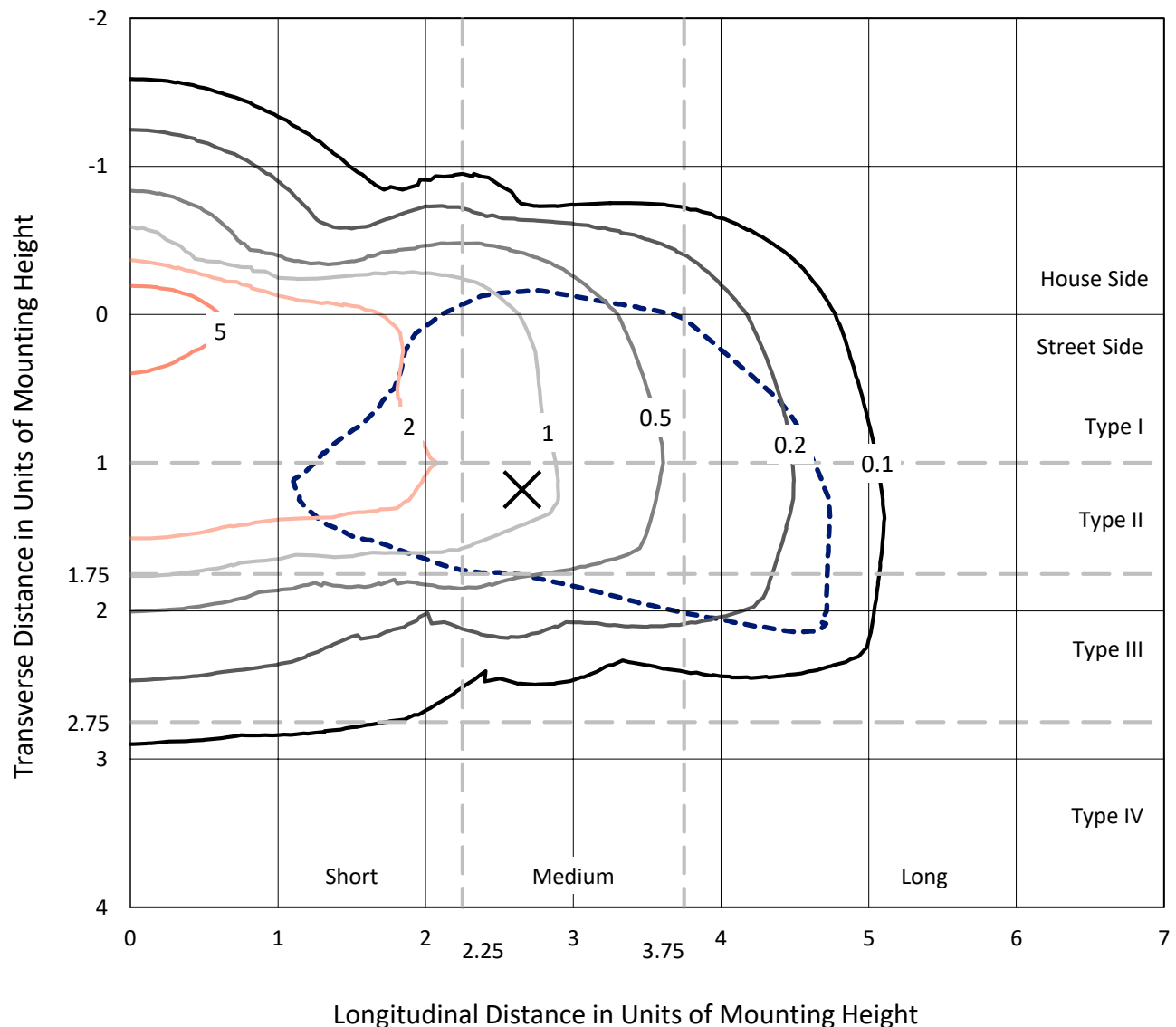


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Iso-Footcandle Lines of Horizontal Illumination

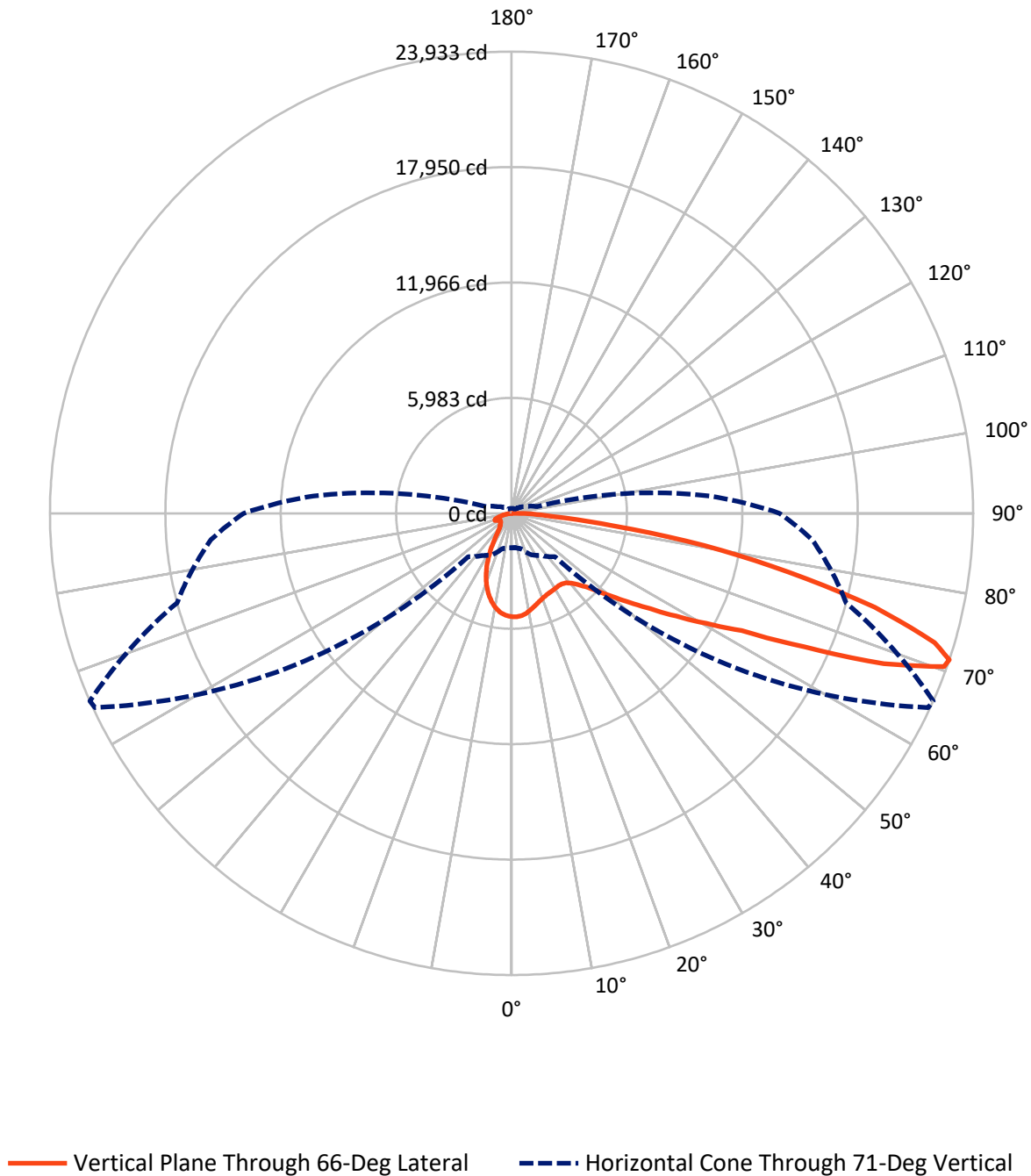
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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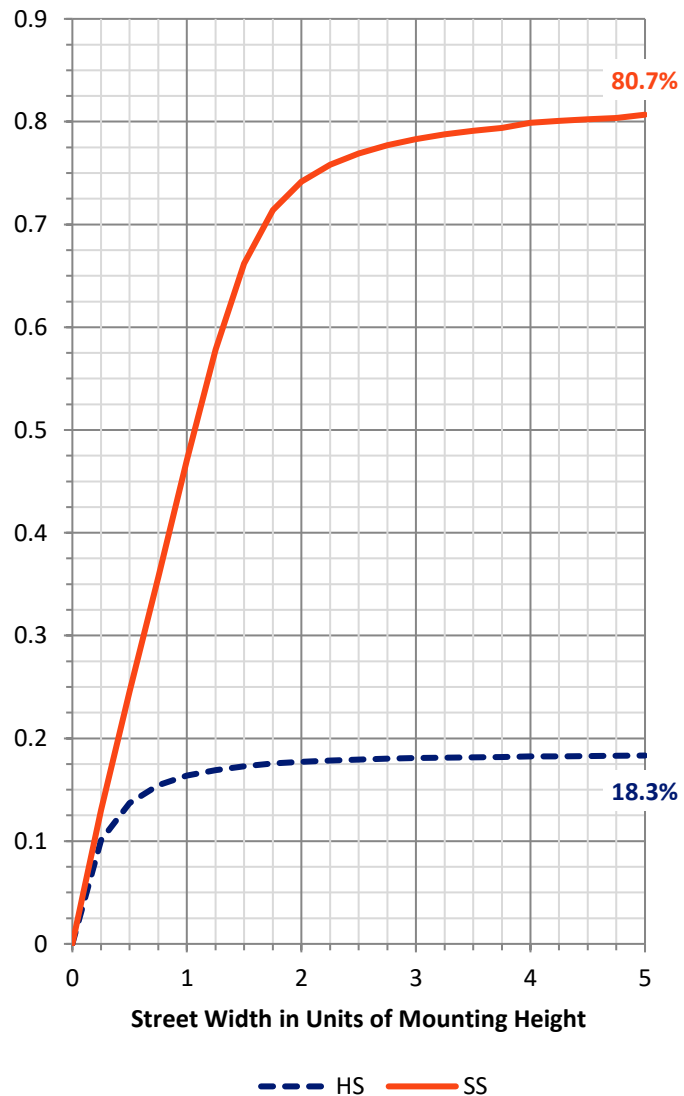
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4336.7	0.0	4336.7
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	19063.3	0.0	19063.3
	% Fixture	81.5	0.0	81.5
Total	Lumens	23400.0	0.0	23400.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.8	2.0
10°-20°	1131.7	4.8
20°-30°	1520.2	6.5
30°-40°	1999.7	8.5
40°-50°	2909.1	12.4
50°-60°	4544.3	19.4
60°-70°	5692.5	24.3
70°-80°	4342.1	18.6
80°-90°	788.5	3.4
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°	23400.0	100.0
0°-180°	23400.0	100.0

Coefficient of Utilization



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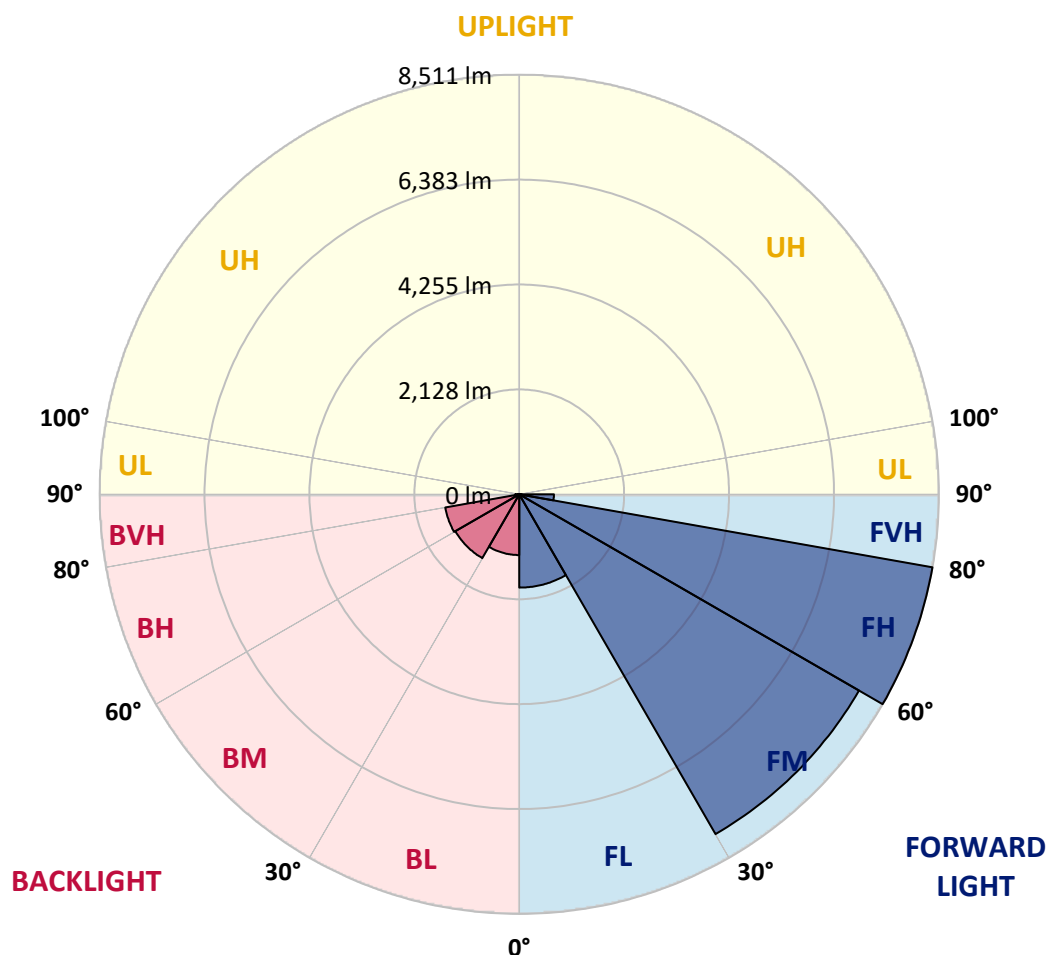
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1892.2	8.1			
FM	(30°-60°)	7957.2	34.0			
FH	(60°-80°)	8510.8	36.4			G4/12000
FVH	(80°-90°)	703.1	3.0			G4/750
BL	(0°-30°)	1231.5	5.3	B3/2500		
BM	(30°-60°)	1496.0	6.4	B2/2500		
BH	(60°-80°)	1523.8	6.5	B3/2500		G3/2500
BVH	(80°-90°)	85.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5
2.5°	5261.1	5253.0	5277.3	5302.3	5312.0	5328.2	5352.4	5366.1	5365.3	5367.8	5359.7
5°	4912.1	4901.6	4950.1	4989.7	5065.6	5151.2	5255.5	5329.8	5331.4	5373.4	5384.7
7.5°	4581.7	4574.4	4630.1	4694.0	4782.0	4912.9	5081.8	5241.7	5251.4	5365.3	5404.9
10°	4316.7	4315.1	4369.2	4438.7	4541.3	4687.5	4881.4	5115.7	5130.2	5326.6	5408.2
12.5°	4109.8	4113.1	4159.9	4239.1	4347.4	4500.1	4710.1	4974.3	4997.7	5265.2	5389.6
15°	3957.1	3970.1	4008.0	4088.0	4194.7	4349.8	4565.5	4843.4	4879.0	5196.5	5379.1
17.5°	3869.9	3884.4	3911.1	3977.3	4077.5	4227.0	4431.4	4736.0	4768.3	5144.0	5379.9
20°	3844.0	3856.2	3871.5	3911.9	3996.7	4132.5	4325.6	4639.0	4673.8	5102.0	5388.0
22.5°	3894.9	3903.8	3905.4	3902.2	3953.9	4064.6	4248.8	4567.9	4605.1	5074.5	5393.6
25°	4004.0	4016.1	4007.2	3977.3	3960.4	4028.2	4209.2	4521.1	4558.2	5054.3	5382.3
27.5°	4168.0	4169.6	4162.4	4123.6	4043.6	4032.3	4197.1	4493.6	4529.1	5030.9	5358.9
30°	4391.0	4401.5	4388.6	4336.1	4205.2	4096.9	4211.6	4466.9	4499.3	5001.0	5320.9
32.5°	4651.9	4677.8	4677.0	4622.1	4434.6	4241.5	4271.4	4450.8	4475.8	4969.5	5274.8
35°	4922.6	4958.1	5024.4	5001.0	4769.1	4470.2	4386.1	4476.6	4493.6	4965.4	5242.5
37.5°	5203.8	5239.3	5375.8	5438.9	5167.4	4797.4	4567.1	4567.9	4576.0	5014.7	5240.1
40°	5497.8	5535.8	5741.0	5905.0	5683.7	5211.8	4858.8	4758.6	4749.7	5135.9	5287.8
42.5°	5909.9	5943.8	6190.2	6399.5	6256.5	5742.6	5261.9	5052.7	5034.1	5373.4	5440.5
45°	6431.0	6460.1	6721.8	6945.6	6872.1	6348.6	5768.5	5457.4	5454.2	5769.3	5749.9
47.5°	7050.6	7073.3	7308.4	7524.9	7551.5	7045.8	6405.1	6082.0	6029.4	6312.2	6229.0
50°	7696.2	7721.2	7881.2	8113.8	8311.8	7978.9	7224.3	6847.0	6776.8	7028.8	6907.6
52.5°	8123.5	8156.7	8295.6	8590.5	9166.6	9001.7	8193.0	7774.5	7667.9	7897.3	7804.4
55°	7932.9	8007.2	8219.7	8692.3	9850.0	10564.2	9387.9	8856.3	8735.9	8926.6	8871.7
57.5°	7066.0	7167.8	7457.8	8187.4	9946.2	11940.9	11194.4	10130.4	10045.6	9990.6	10015.7
60°	5481.7	5579.4	5939.0	6889.9	9276.4	12946.0	13913.0	11701.0	11578.2	11058.7	11081.3
62.5°	3879.6	3830.3	4076.7	4772.3	7537.8	13063.9	17006.5	13801.5	13397.6	12186.5	12087.2
65°	2958.6	2947.3	3057.9	3279.3	4565.5	11652.5	18849.4	17332.1	16701.1	13513.1	13278.8
67.5°	2431.0	2410.8	2519.9	2842.2	2940.0	7517.6	18889.8	21428.2	20808.5	15164.5	14657.1
70°	1998.8	1976.1	2077.9	2494.0	2717.0	3812.5	15898.1	23826.9	23793.8	17255.4	15697.7
71°	1791.9	1775.8	1897.8	2359.9	2669.3	3177.5	13726.4	23833.4	23932.7	17963.1	15636.3
72.5°	1459.1	1464.7	1594.0	2100.6	2633.8	2805.9	10088.4	22722.5	22932.5	18637.7	15078.0
75°	969.5	974.3	1144.0	1615.8	2553.8	2745.3	5544.7	19066.7	19452.9	18233.7	13758.7
77.5°	651.2	649.6	765.1	1108.5	2225.0	2745.3	3251.0	14260.4	14684.6	14508.5	10607.1
80°	448.4	445.2	526.8	765.1	1684.5	2778.4	2513.4	9993.9	10122.3	7835.1	4311.0
82.5°	274.7	277.1	344.2	540.5	1146.4	2500.5	2372.8	5449.4	5309.6	2197.5	1076.9
85°	157.5	156.7	219.8	366.0	736.0	2110.3	2313.9	2345.4	2151.5	661.7	389.4
87.5°	56.6	60.6	118.0	202.8	421.7	1469.6	1963.2	1219.9	1099.6	298.9	176.1
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°	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5
2.5°	5354.0	5358.9	5353.2	5320.9	5293.4	5249.0	5224.0	5189.2	5178.7	5173.9	5186.8
5°	5374.2	5375.8	5328.2	5243.3	5148.0	5035.7	4954.9	4855.5	4808.7	4788.5	4801.4
7.5°	5392.8	5385.5	5281.3	5118.9	4942.8	4747.3	4573.6	4414.4	4321.5	4283.5	4286.8
10°	5395.2	5364.5	5197.3	4946.0	4673.0	4386.1	4119.5	3873.9	3718.8	3617.8	3648.5
12.5°	5370.2	5318.5	5073.7	4722.2	4343.3	3952.3	3592.0	3223.6	3002.2	2899.6	2902.8
15°	5350.8	5257.1	4921.8	4458.9	3949.9	3432.0	2940.0	2506.9	2271.0	2166.0	2116.7
17.5°	5334.6	5190.8	4745.7	4162.4	3485.3	2828.5	2237.1	1850.9	1721.7	1691.0	1678.0
20°	5312.0	5120.5	4549.3	3819.0	2956.1	2153.1	1633.6	1442.9	1443.7	1479.3	1484.1
22.5°	5280.5	5040.6	4340.1	3433.6	2388.2	1568.2	1280.5	1225.6	1281.3	1349.2	1361.3
25°	5233.6	4946.0	4107.4	3007.9	1821.0	1205.4	1093.9	1091.5	1159.4	1230.4	1241.0
27.5°	5167.4	4822.4	3848.9	2550.6	1341.9	1024.4	980.0	997.0	1047.1	1098.8	1102.8
30°	5078.5	4678.6	3563.7	2068.3	1051.9	912.1	907.3	922.6	953.3	989.7	992.9
32.5°	4980.8	4532.4	3259.1	1601.3	900.8	851.5	856.4	863.7	878.2	892.7	896.0
35°	4891.9	4382.9	2947.3	1216.7	828.9	812.0	808.7	807.1	808.7	803.9	804.7
37.5°	4834.5	4259.3	2622.5	968.7	787.7	777.2	767.5	755.4	741.7	733.6	735.2
40°	4813.5	4167.2	2293.7	837.0	753.8	746.5	727.9	702.1	685.9	681.1	681.1
42.5°	4870.1	4119.5	1976.1	770.7	725.5	713.4	682.7	652.8	640.7	639.9	639.1
45°	5043.0	4138.9	1674.0	734.4	699.7	676.2	635.8	610.8	602.7	604.3	603.5
47.5°	5353.2	4260.9	1415.5	710.2	673.8	643.1	597.9	577.7	568.0	568.0	568.8
50°	5880.8	4546.1	1209.4	690.0	652.0	612.4	570.4	545.3	532.4	531.6	531.6
52.5°	6649.1	5056.7	1081.0	673.0	627.7	584.9	542.9	511.4	496.1	492.8	491.2
55°	7612.1	5788.7	1045.4	661.7	595.4	555.0	509.8	478.3	461.3	454.0	453.2
57.5°	8689.1	6679.0	1115.7	647.9	562.3	519.5	473.4	443.5	425.8	416.9	416.1
60°	9779.0	7650.9	1402.5	628.6	534.8	480.7	436.3	408.8	391.0	381.3	379.7
62.5°	10870.4	8675.3	1988.3	626.9	515.4	443.5	398.3	374.9	357.9	347.4	345.0
65°	12101.7	9796.7	2654.0	669.8	509.0	409.6	359.5	340.9	326.4	316.7	315.9
67.5°	13515.5	11062.7	2590.2	757.8	530.8	378.9	323.2	308.6	298.1	290.0	289.2
70°	14178.8	10864.8	1610.2	820.0	561.5	349.0	288.4	277.9	269.8	264.2	261.8
71°	13900.9	10316.2	1350.0	812.8	558.3	336.1	274.7	266.6	258.5	253.7	251.3
72.5°	13143.1	9408.1	1126.2	756.2	521.9	312.7	256.9	248.8	241.6	235.9	234.3
75°	11793.9	8402.3	901.6	604.3	416.1	264.2	225.4	216.5	210.9	207.6	204.4
77.5°	8669.7	5996.3	697.2	477.5	306.2	215.7	192.3	185.8	180.2	175.3	172.9
80°	3321.3	2322.7	469.4	356.3	224.6	170.5	155.1	151.9	146.2	143.0	143.0
82.5°	894.4	694.0	250.5	215.7	150.3	124.4	118.8	117.1	112.3	105.8	106.6
85°	361.9	306.2	140.6	118.8	92.1	73.5	80.0	80.8	75.1	67.1	67.9
87.5°	159.2	130.1	78.4	52.5	40.4	28.3	36.4	36.4	33.1	27.5	25.0
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)