

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: P319911

Luminaire Tested: **GAN-SA7A-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26193 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 226
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

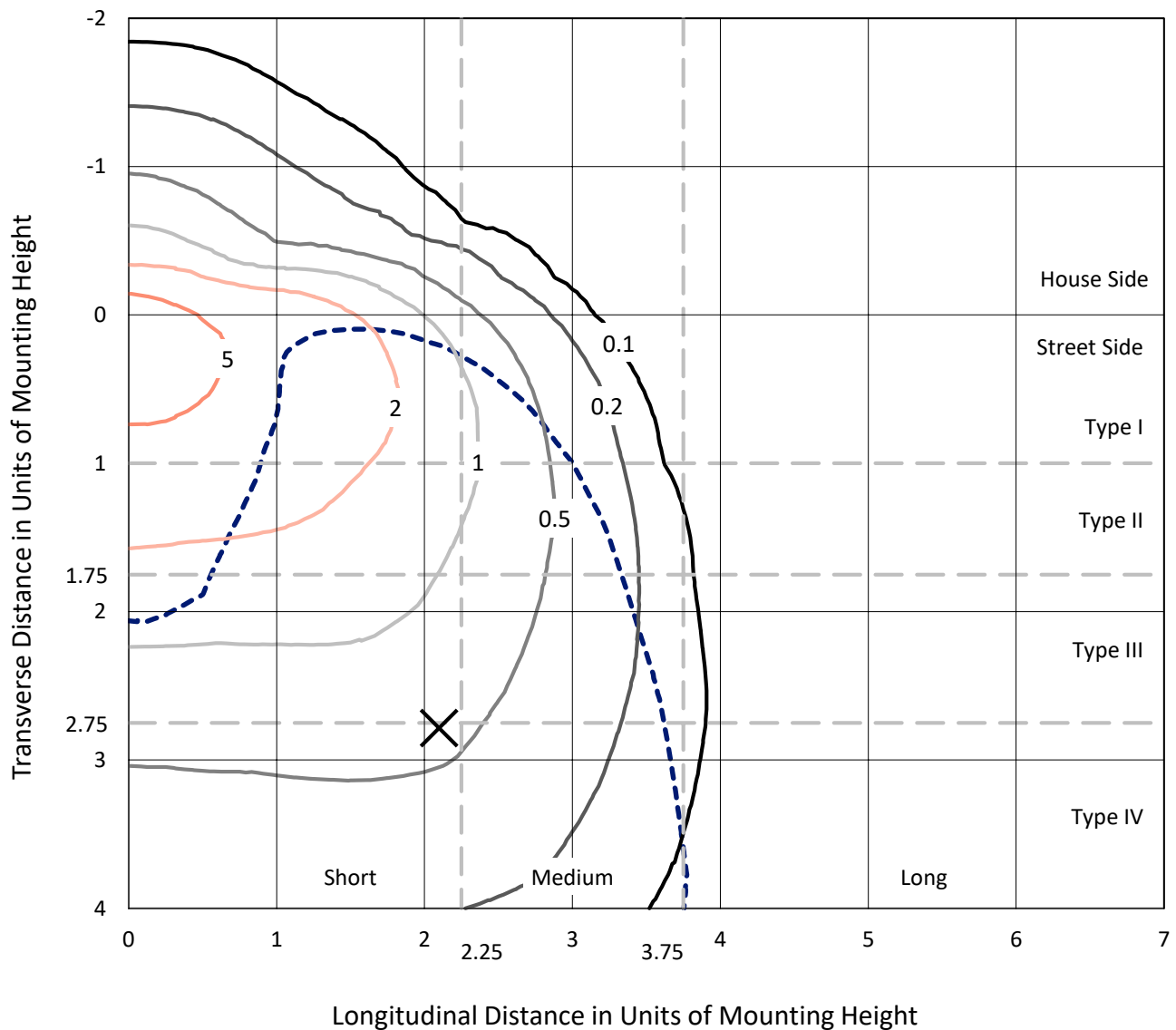


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Iso-Footcandle Lines of Horizontal Illumination

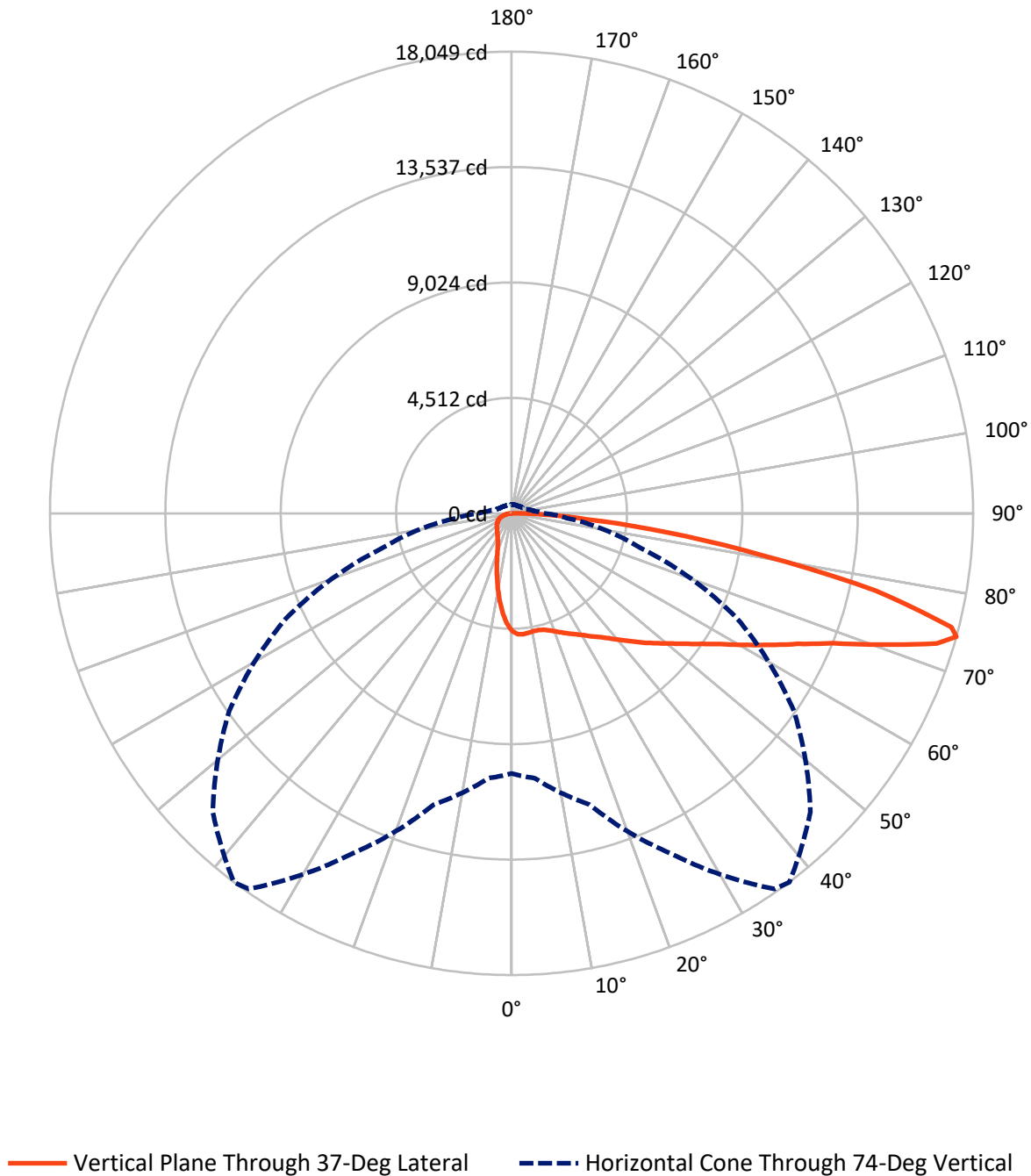
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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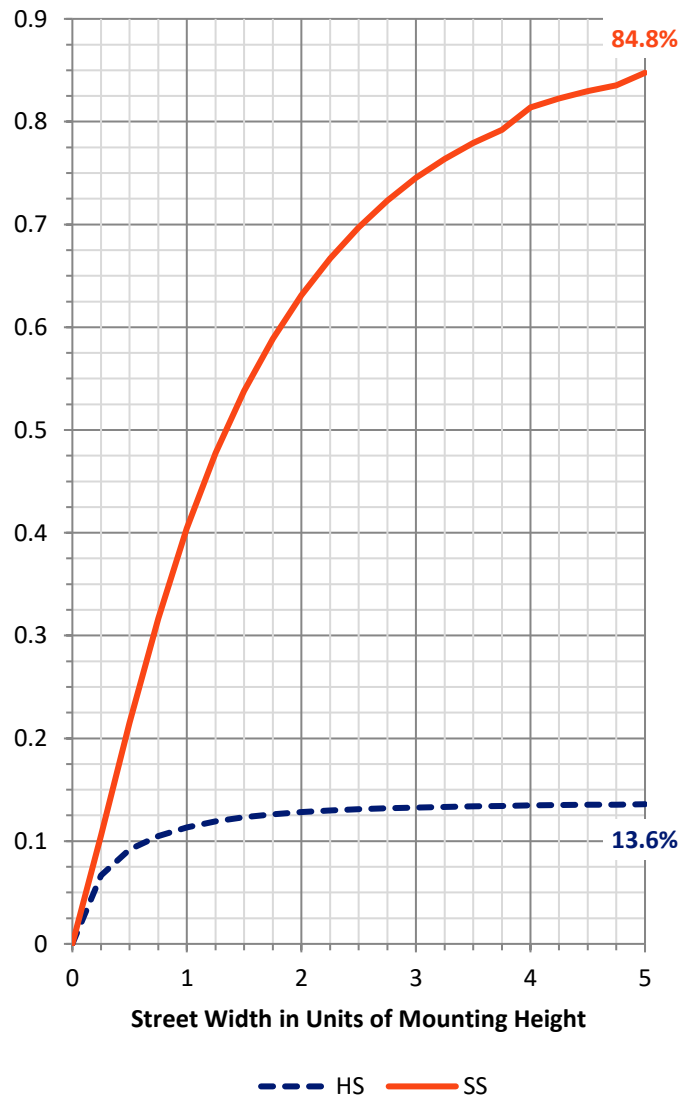
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3604.0	0.0	3604.0
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	22589.0	0.0	22589.0
	% Fixture	86.2	0.0	86.2
Total	Lumens	26193.0	0.0	26193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.4	1.6
10°-20°	1041.7	4.0
20°-30°	1605.1	6.1
30°-40°	2334.1	8.9
40°-50°	3435.4	13.1
50°-60°	4824.4	18.4
60°-70°	6106.1	23.3
70°-80°	5376.7	20.5
80°-90°	1063.1	4.1
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°	26193.0	100.0
0°-180°	26193.0	100.0

Coefficient of Utilization



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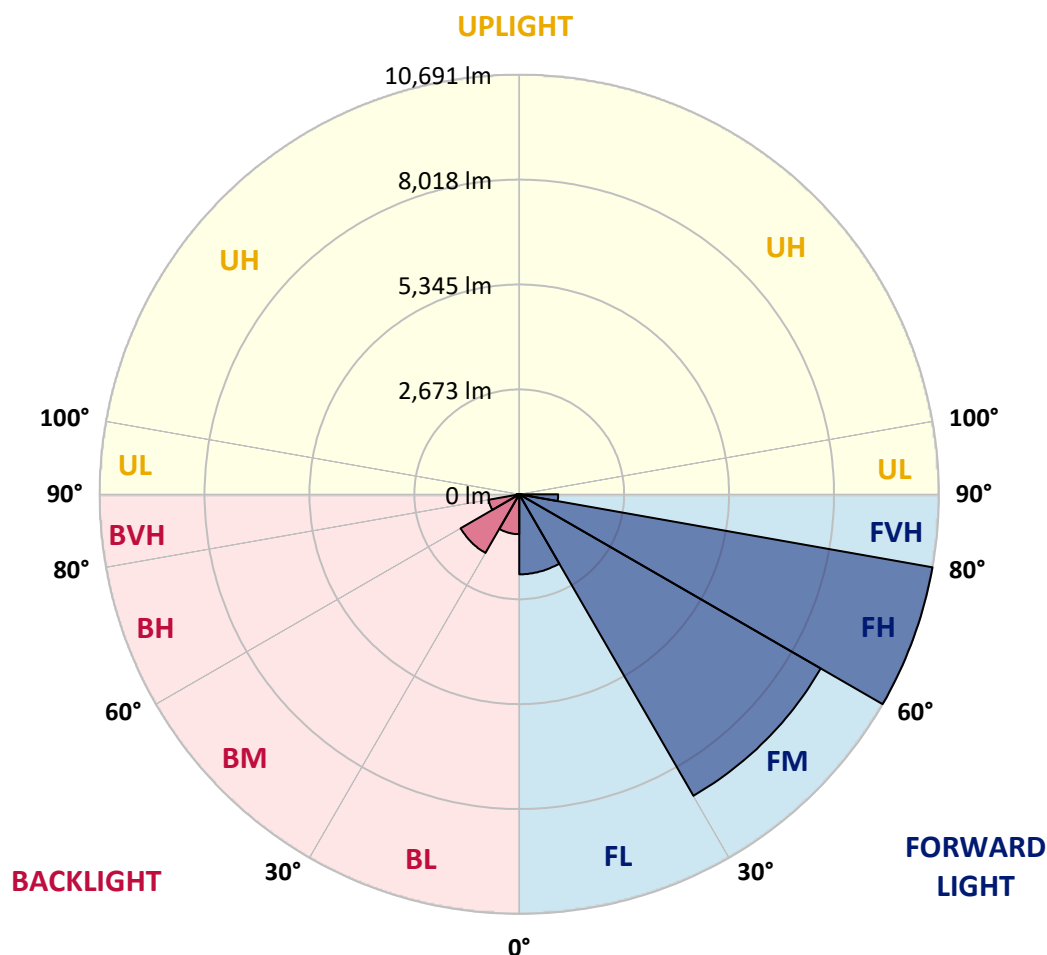
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2038.1	7.8			
FM	(30°-60°)	8869.2	33.9			
FH	(60°-80°)	10690.6	40.8			G4/12000
FVH	(80°-90°)	991.1	3.8			G5
BL	(0°-30°)	1015.2	3.9	B3/2500		
BM	(30°-60°)	1724.6	6.6	B2/2500		
BH	(60°-80°)	792.2	3.0	B2/1000		G2/1000
BVH	(80°-90°)	72.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	4615.1	4615.1	4615.1	4615.1	4615.1	4615.1	4615.1	4615.1	4615.1	4615.1	4615.1
2.5°	4772.9	4773.8	4772.9	4765.5	4748.0	4733.2	4721.2	4703.7	4664.9	4635.4	4591.1
5°	4818.1	4812.6	4808.9	4795.0	4767.3	4750.7	4727.7	4694.5	4630.8	4571.7	4499.8
7.5°	4796.9	4790.4	4782.1	4765.5	4734.1	4720.3	4688.0	4644.6	4568.0	4490.5	4387.2
10°	4731.4	4729.5	4725.8	4722.1	4695.4	4684.3	4654.8	4608.6	4533.0	4438.9	4318.0
12.5°	4658.5	4663.1	4677.8	4697.2	4685.2	4679.7	4661.2	4629.9	4552.4	4450.9	4305.1
15°	4612.3	4625.3	4664.9	4715.7	4725.8	4724.0	4719.4	4699.1	4617.0	4504.4	4334.6
17.5°	4596.7	4617.9	4693.5	4777.5	4807.0	4813.5	4815.3	4780.3	4688.9	4569.9	4365.1
20°	4625.3	4652.0	4762.7	4878.1	4925.1	4928.8	4920.5	4859.6	4757.2	4626.2	4381.7
22.5°	4712.0	4736.0	4874.4	5004.5	5058.0	5063.5	5038.6	4946.3	4829.2	4692.6	4404.7
25°	4879.0	4908.5	5046.9	5177.0	5204.7	5205.6	5169.6	5055.2	4923.3	4785.8	4454.6
27.5°	5096.7	5126.3	5250.8	5378.1	5363.4	5355.1	5306.2	5191.8	5046.0	4914.0	4543.1
30°	5339.4	5371.7	5489.8	5580.2	5545.1	5528.5	5488.9	5341.2	5216.7	5089.3	4678.8
32.5°	5590.3	5619.9	5723.2	5785.0	5740.7	5733.4	5673.4	5538.7	5439.0	5356.9	4898.4
35°	5847.8	5869.0	5970.5	6005.5	5946.5	5944.6	5928.0	5804.4	5741.7	5780.4	5217.6
37.5°	6110.7	6116.3	6203.0	6204.8	6187.3	6194.7	6212.2	6134.7	6152.2	6273.1	5632.8
40°	6345.1	6359.8	6422.6	6442.0	6472.4	6498.2	6585.9	6535.1	6670.8	6884.8	6149.5
42.5°	6518.5	6547.1	6647.7	6697.5	6796.3	6836.9	6960.5	7007.5	7280.6	7601.7	6764.0
45°	6665.2	6709.5	6871.0	6973.4	7140.4	7211.4	7388.6	7546.4	7969.9	8379.5	7410.7
47.5°	6823.9	6880.2	7082.3	7277.9	7504.9	7585.1	7907.1	8143.3	8705.2	9161.9	8020.6
50°	7057.4	7100.7	7298.2	7605.4	7888.7	7992.0	8437.7	8776.3	9452.6	9907.4	8549.3
52.5°	7383.1	7366.5	7533.5	7964.3	8344.5	8471.8	9004.2	9449.8	10210.1	10581.9	8995.9
55°	7710.6	7682.9	7800.1	8339.9	8875.9	9009.7	9627.9	10126.1	10930.7	11189.0	9338.2
57.5°	8075.0	8022.5	8121.2	8763.3	9481.2	9640.8	10326.3	10844.9	11639.3	11679.9	9555.9
60°	8450.6	8379.5	8490.2	9288.3	10249.7	10438.0	11143.8	11546.1	12307.3	12072.9	9626.0
62.5°	8779.0	8729.2	8899.9	9874.2	11116.1	11322.8	11946.5	12291.6	12966.0	12236.2	9373.2
65°	9066.0	9074.3	9369.5	10533.0	12082.1	12302.6	12867.3	13210.5	13484.6	12139.3	8781.8
67.5°	9408.3	9455.3	9959.1	11400.3	13298.2	13539.9	14207.0	14212.5	13774.3	11571.0	7617.4
70°	9907.4	10004.3	10770.1	12603.4	15027.2	15359.4	15874.2	14801.2	13367.4	10030.1	5993.5
72.5°	10350.3	10531.1	11632.8	13980.0	17134.6	17386.5	16849.5	14461.6	11666.9	7516.8	3734.0
74°	10170.4	10394.6	11789.6	14658.2	17928.1	18048.9	16520.1	13470.7	9727.5	5205.6	2170.1
75°	9782.9	10026.5	11560.8	14651.7	17827.5	17760.1	15724.8	12338.6	8011.4	3550.4	1444.0
77.5°	7895.1	8152.6	9741.4	12557.3	14617.6	14553.9	12079.4	8277.1	3508.8	1164.4	733.5
80°	4590.2	4786.7	6047.1	7974.5	9856.7	9972.0	7944.0	4095.7	1380.3	654.2	497.3
82.5°	2039.1	2174.7	2921.1	4070.7	5948.3	6096.9	4160.2	2146.1	852.5	397.7	298.9
85°	1337.8	1438.4	1773.3	1938.5	2832.5	2934.0	2036.3	1670.9	562.8	218.7	219.6
87.5°	962.3	1059.2	1317.5	1150.5	1300.0	1230.8	1108.1	1546.4	226.0	124.6	73.8
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°	4615.1	4615.1	4615.1	4615.1	4615.1	4615.1	4615.1	4615.1	4615.1	4615.1	4615.1
2.5°	4571.7	4557.0	4523.8	4461.0	4426.0	4396.4	4347.5	4318.9	4306.0	4305.1	4310.6
5°	4458.3	4424.1	4338.3	4233.1	4149.2	4072.6	3977.6	3920.3	3879.8	3855.8	3862.2
7.5°	4326.3	4272.8	4138.1	3970.2	3835.5	3686.9	3540.2	3452.6	3384.3	3333.5	3342.8
10°	4235.9	4162.1	3965.6	3723.8	3499.6	3283.7	3081.7	2960.8	2864.8	2791.0	2796.6
12.5°	4205.4	4105.8	3833.6	3510.7	3196.1	2900.8	2636.9	2451.5	2352.8	2268.8	2275.3
15°	4210.1	4076.3	3722.9	3318.8	2923.0	2551.1	2231.0	2014.1	1880.4	1822.2	1823.2
17.5°	4213.8	4042.1	3606.6	3113.0	2652.6	2224.5	1876.7	1657.1	1530.7	1477.2	1478.1
20°	4201.8	3986.8	3462.7	2876.8	2370.3	1924.7	1587.9	1401.5	1305.6	1264.0	1264.0
22.5°	4186.1	3921.3	3300.3	2639.7	2091.7	1664.5	1381.2	1239.1	1183.8	1156.1	1155.2
25°	4193.5	3872.4	3134.2	2396.1	1835.2	1456.9	1243.7	1149.6	1112.7	1095.2	1094.3
27.5°	4233.1	3849.3	2981.1	2153.5	1611.0	1300.9	1151.5	1085.0	1061.0	1050.0	1050.0
30°	4305.1	3849.3	2821.5	1946.8	1424.6	1185.6	1080.4	1035.2	1018.6	1011.2	1011.2
32.5°	4430.6	3870.5	2667.4	1742.0	1276.0	1095.2	1021.4	990.9	978.0	974.3	974.3
35°	4646.5	3942.5	2517.0	1548.2	1156.1	1021.4	965.1	947.6	938.3	937.4	940.2
37.5°	4950.0	4089.2	2375.8	1405.2	1071.2	961.4	918.0	904.2	898.7	903.3	907.0
40°	5332.0	4288.5	2247.6	1276.0	1006.6	913.4	874.7	865.4	862.7	869.1	874.7
42.5°	5793.3	4557.9	2142.4	1182.8	956.8	872.8	837.8	826.7	823.9	831.3	838.7
45°	6292.5	4847.6	2068.6	1113.6	918.0	842.4	805.5	793.5	787.9	791.6	799.9
47.5°	6746.4	5121.6	2039.1	1064.7	881.1	816.5	776.9	762.1	752.9	751.0	757.5
50°	7129.3	5325.5	2052.9	1035.2	851.6	787.9	749.2	732.6	718.7	710.4	715.1
52.5°	7408.0	5453.8	2065.8	1022.3	828.5	756.6	718.7	703.1	684.6	670.8	670.8
55°	7610.0	5483.3	2037.2	1012.1	811.0	722.4	684.6	669.8	651.4	635.7	633.9
57.5°	7689.4	5400.3	1931.1	997.4	799.0	690.1	648.6	637.6	621.9	603.4	602.5
60°	7582.4	5143.8	1726.3	966.0	783.3	663.4	612.6	605.3	597.9	580.3	579.4
62.5°	7152.4	4581.0	1461.5	902.4	752.0	634.8	579.4	583.1	584.0	572.0	570.2
65°	6372.8	3807.8	1203.1	819.3	704.9	600.6	545.3	562.8	573.0	571.1	568.4
67.5°	5239.7	2963.6	1019.5	731.7	643.1	553.6	508.4	528.7	537.0	543.4	541.6
70°	3889.0	2089.8	843.3	639.4	568.4	498.2	460.4	470.6	465.0	472.4	475.2
72.5°	2168.2	1253.9	687.4	547.1	490.9	433.6	406.9	405.0	393.0	393.0	393.0
74°	1300.9	919.9	604.3	489.9	443.8	391.2	368.1	359.8	348.8	349.7	348.8
75°	1046.3	790.7	554.5	452.1	410.6	366.3	343.2	332.2	323.9	323.9	322.9
77.5°	660.6	600.6	446.6	359.8	328.5	301.7	286.0	271.3	271.3	270.3	269.4
80°	499.2	477.9	347.8	272.2	251.9	231.6	221.4	215.0	215.0	217.7	216.8
82.5°	342.3	359.8	244.5	190.1	179.9	165.2	163.3	164.2	161.5	157.8	156.9
85°	250.0	270.3	165.2	119.9	109.8	100.6	108.0	111.6	107.0	98.7	95.0
87.5°	96.0	177.1	88.6	49.8	46.1	39.7	46.1	48.0	51.7	40.6	41.5
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)