

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: P317698

Luminaire Tested: **GAN-SA4D-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317698
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26761 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

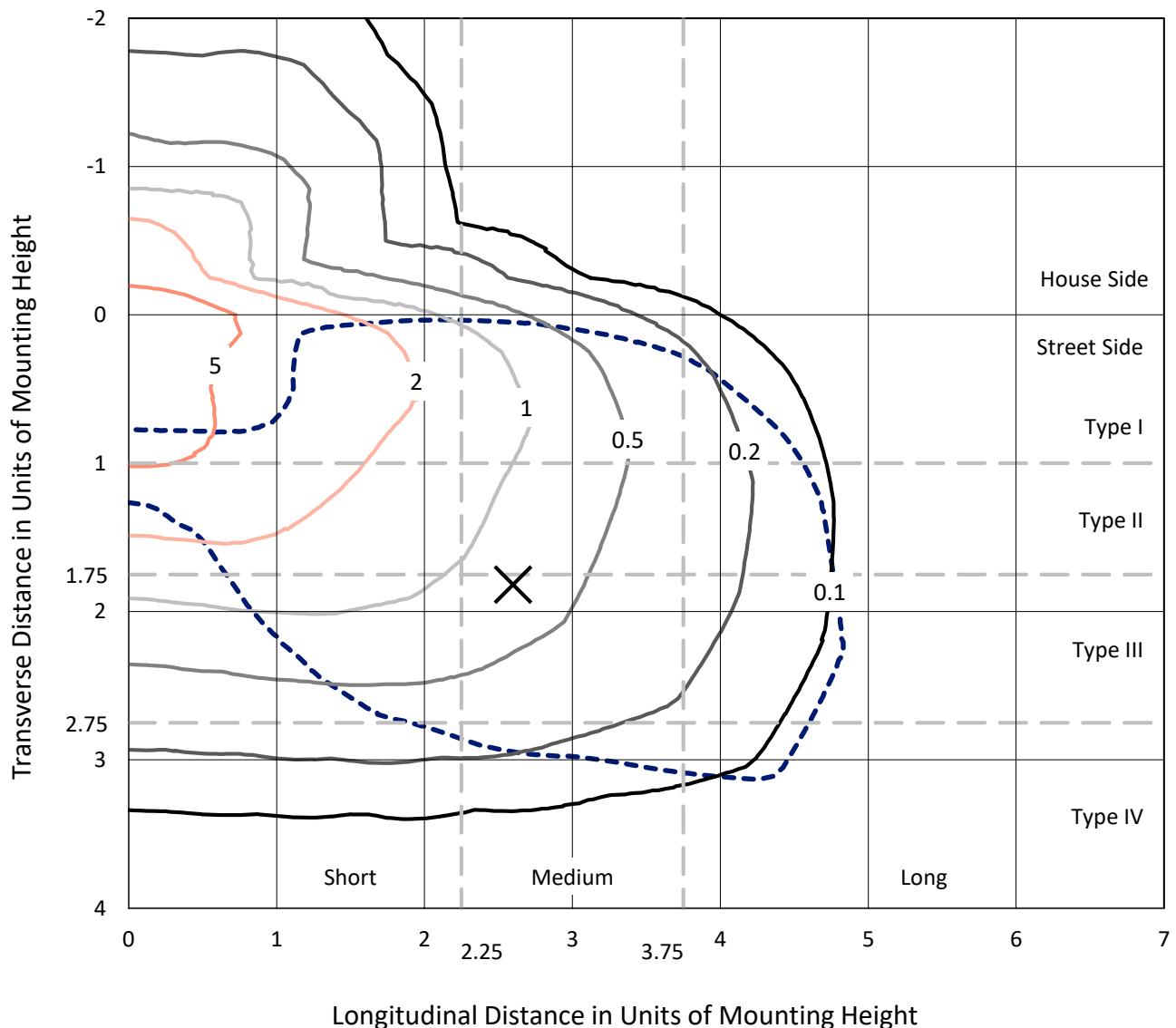
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

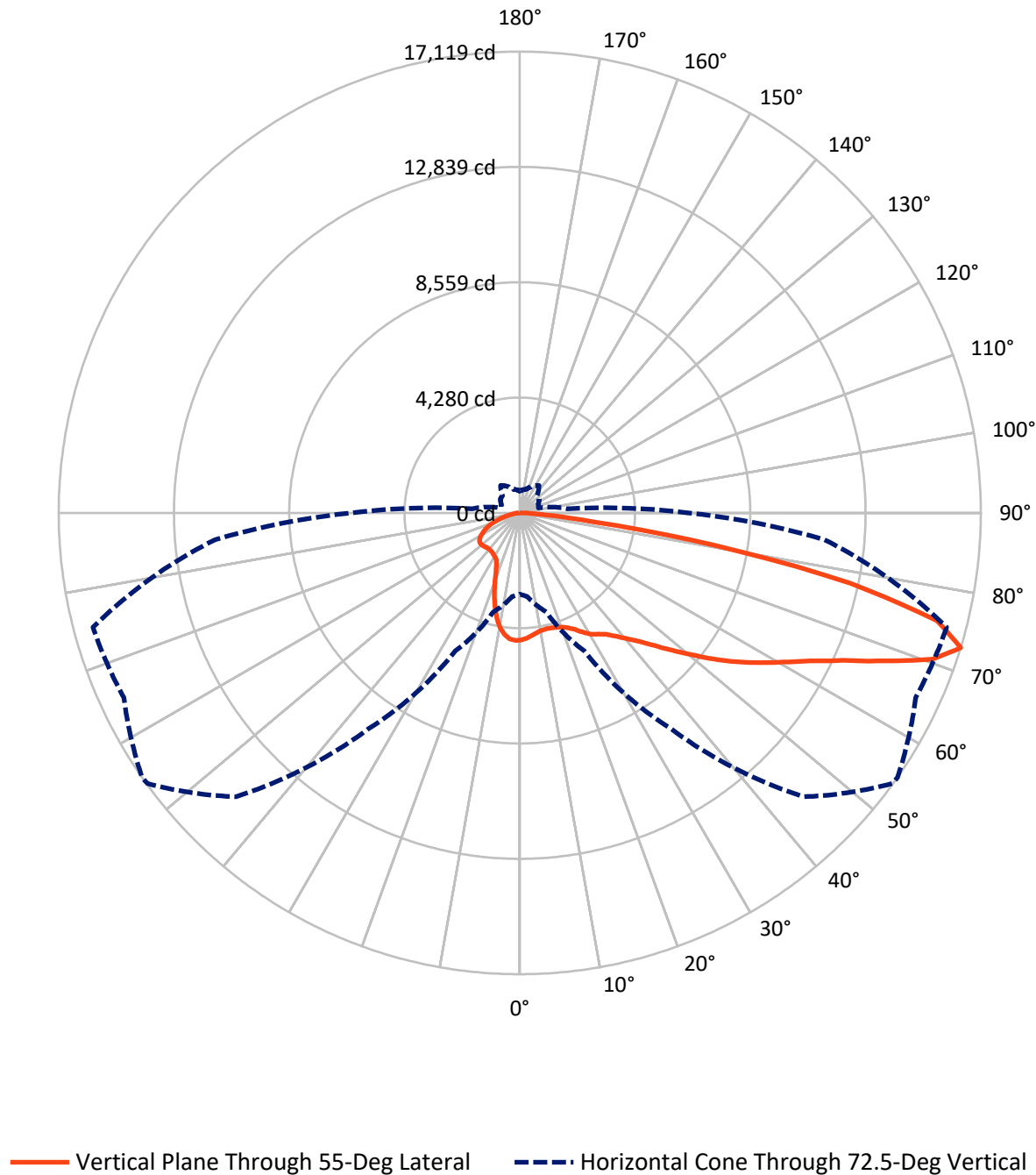
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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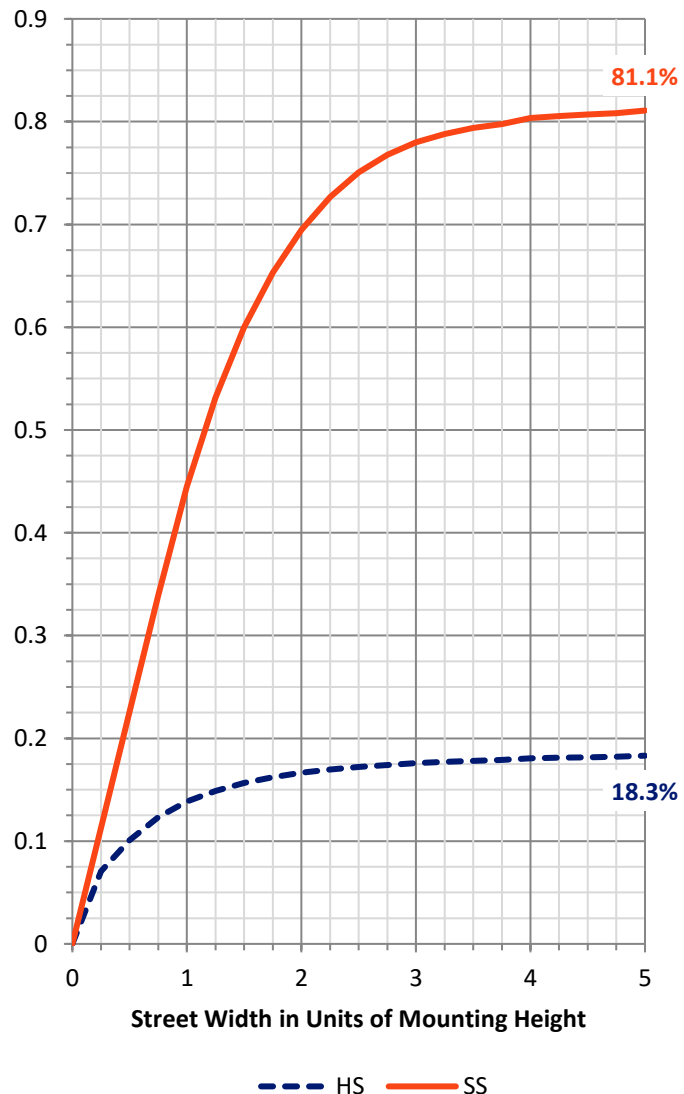
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4974.0	0.0	4974.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	21787.0	0.0	21787.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	26761.0	0.0	26761.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.1	1.6
10°-20°	1137.1	4.2
20°-30°	1874.8	7.0
30°-40°	2773.4	10.4
40°-50°	3871.0	14.5
50°-60°	5040.2	18.8
60°-70°	6194.2	23.1
70°-80°	4855.5	18.1
80°-90°	587.6	2.2
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°	26761.0	100.0
0°-180°	26761.0	100.0

Coefficient of Utilization



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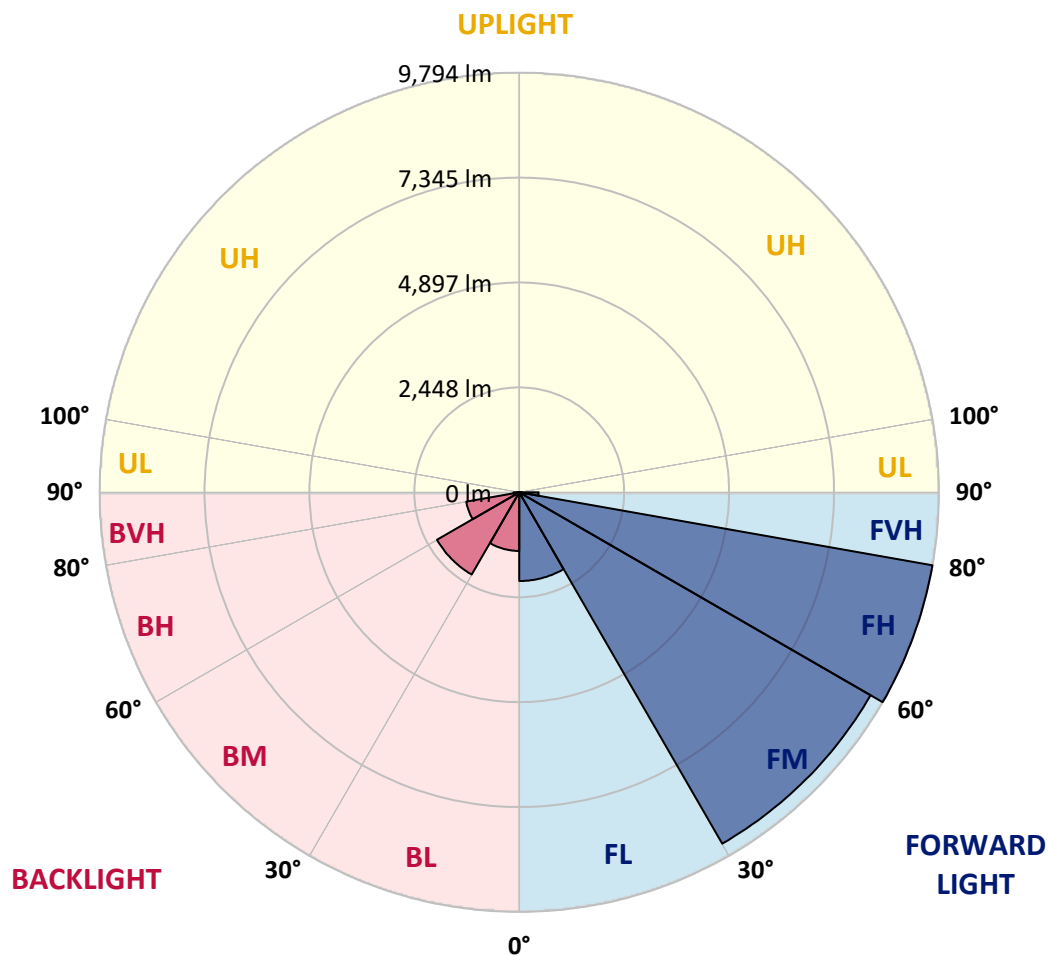
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2070.5	7.7			
FM	(30°-60°)	9468.6	35.4			
FH	(60°-80°)	9793.6	36.6			G4/12000
FVH	(80°-90°)	454.3	1.7			G3/500
BL	(0°-30°)	1368.6	5.1	B3/2500		
BM	(30°-60°)	2216.0	8.3	B2/2500		
BH	(60°-80°)	1256.2	4.7	B3/2500		G3/2500
BVH	(80°-90°)	133.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4720.1	4720.1	4720.1	4720.1	4720.1	4720.1	4720.1	4720.1	4720.1	4720.1	4720.1
2.5°	4566.4	4555.6	4569.1	4588.1	4608.9	4636.9	4653.2	4660.4	4688.4	4699.3	4722.8
5°	4354.9	4349.5	4372.1	4404.6	4450.7	4515.8	4568.2	4578.2	4652.3	4704.7	4752.6
7.5°	4201.2	4201.2	4227.4	4266.3	4317.8	4405.5	4479.6	4493.2	4618.8	4731.8	4820.4
10°	4079.2	4083.7	4114.5	4160.6	4221.1	4314.2	4412.7	4428.1	4609.8	4795.1	4936.1
12.5°	3997.9	4008.7	4036.7	4078.3	4153.3	4266.3	4391.1	4411.8	4628.8	4885.5	5075.3
15°	4049.4	4067.5	4070.2	4087.3	4128.9	4251.9	4403.7	4425.4	4669.4	4977.7	5233.5
17.5°	4275.4	4281.7	4253.7	4217.5	4197.6	4276.3	4441.7	4464.3	4718.3	5069.0	5385.3
20°	4618.8	4615.2	4554.7	4457.0	4355.8	4368.5	4504.0	4527.5	4784.2	5149.4	5537.2
22.5°	5052.7	5040.0	4946.9	4767.1	4594.4	4522.1	4613.4	4633.3	4883.7	5264.2	5699.9
25°	5578.8	5550.7	5427.8	5186.5	4932.5	4746.3	4777.9	4796.9	5028.3	5392.6	5849.0
27.5°	6133.7	6105.7	5949.3	5657.4	5319.3	5029.2	5004.8	5021.1	5192.8	5487.5	5959.3
30°	6714.0	6684.2	6541.4	6214.2	5729.7	5322.0	5216.3	5222.6	5308.5	5539.0	6049.7
32.5°	7297.0	7269.0	7109.0	6729.4	6175.3	5636.6	5369.1	5360.9	5378.1	5592.3	6151.8
35°	7888.2	7899.0	7711.9	7291.6	6668.8	5986.4	5549.8	5532.7	5494.7	5701.7	6296.4
37.5°	8520.9	8513.7	8271.4	7832.1	7184.9	6366.0	5809.2	5806.5	5675.5	5908.7	6523.3
40°	8943.9	8948.4	8801.1	8385.3	7706.5	6786.3	6141.9	6135.5	5963.8	6218.7	6820.7
42.5°	9109.3	9139.1	9177.1	8913.2	8252.4	7273.5	6538.7	6529.6	6366.0	6663.4	7170.5
45°	9121.1	9180.7	9415.7	9382.3	8805.6	7831.2	7045.7	7020.4	6902.9	7254.5	7588.1
47.5°	9019.8	9081.3	9471.8	9661.6	9300.0	8419.6	7638.7	7618.8	7517.6	7993.9	8040.0
50°	8798.4	8857.1	9356.1	9798.1	9706.8	8985.5	8322.0	8269.6	8215.4	8848.1	8557.0
52.5°	8383.5	8496.5	9201.5	9830.6	9949.9	9488.0	9040.6	9006.3	9036.1	9749.3	9075.0
55°	7401.0	7527.5	8802.9	9803.5	10129.8	9910.1	9759.2	9757.4	9912.0	10694.7	9630.8
57.5°	6850.5	6940.0	7991.2	9757.4	10343.1	10329.5	10470.6	10487.7	10788.7	11724.2	10212.9
60°	6539.6	6633.6	7579.9	9586.6	10673.9	10871.9	11196.4	11230.7	11679.9	12864.0	10913.5
62.5°	6256.7	6359.7	7325.0	9238.6	11063.5	11647.4	12065.9	12096.6	12623.6	14035.5	11590.5
65°	5773.1	5889.7	6951.7	9009.9	11417.8	12658.8	13171.3	13192.1	13707.3	15262.9	12108.4
67.5°	5089.8	5196.4	6247.6	8504.6	11679.9	13887.2	14641.1	14652.8	14782.1	16129.7	12373.2
70°	4291.6	4332.3	5244.3	7461.5	11369.9	15036.1	16251.8	16254.5	15761.9	16684.7	12329.8
72.5°	3015.3	3111.2	3807.1	5648.4	9770.9	14896.0	17087.9	17118.6	16217.4	16404.5	11344.6
75°	1849.3	1950.6	2388.1	3423.0	6198.8	11715.2	15788.1	16001.4	15363.3	14626.6	9267.5
77.5°	1236.5	1274.5	1558.3	1995.8	2808.4	6740.2	12138.2	12539.5	12762.8	10666.7	5926.7
80°	689.7	762.0	1033.1	1240.1	1249.2	2678.2	7278.0	7372.1	7100.9	4247.3	1828.6
82.5°	365.2	404.9	689.7	728.5	681.5	896.6	2712.5	2715.3	2268.7	1138.9	543.2
85°	282.9	316.4	472.7	444.7	348.0	397.7	894.8	943.7	771.9	466.4	177.2
87.5°	141.0	175.4	320.9	282.0	136.5	113.9	320.0	341.7	304.6	182.6	64.2
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°	4720.1	4720.1	4720.1	4720.1	4720.1	4720.1	4720.1	4720.1	4720.1	4720.1	4720.1
2.5°	4731.8	4739.9	4749.9	4739.0	4735.4	4721.0	4696.6	4691.1	4678.5	4679.4	4686.6
5°	4773.4	4787.0	4781.5	4739.9	4690.2	4620.6	4548.3	4486.9	4446.2	4443.5	4440.8
7.5°	4852.9	4862.0	4819.5	4701.1	4561.9	4401.0	4249.1	4116.3	4035.8	4015.9	4011.4
10°	4977.7	4975.9	4859.3	4620.6	4343.1	4055.7	3811.7	3627.3	3519.7	3488.1	3479.9
12.5°	5116.9	5096.1	4872.8	4474.2	4034.0	3635.4	3326.3	3121.1	3009.0	2972.9	2963.8
15°	5260.6	5209.1	4839.4	4255.5	3654.4	3182.6	2858.1	2668.3	2607.7	2587.8	2584.2
17.5°	5394.4	5294.9	4743.6	3959.0	3221.4	2731.5	2478.4	2402.5	2417.0	2443.2	2444.1
20°	5525.4	5352.8	4589.9	3584.8	2765.0	2360.0	2274.2	2330.2	2398.9	2452.2	2459.5
22.5°	5654.7	5393.5	4392.0	3152.7	2356.4	2151.2	2211.8	2313.9	2392.6	2450.4	2460.4
25°	5763.1	5403.4	4119.0	2691.8	2072.6	2072.6	2182.0	2278.7	2356.4	2413.4	2423.3
27.5°	5802.9	5336.5	3733.9	2265.1	1929.8	2036.4	2140.4	2220.8	2286.8	2347.4	2358.2
30°	5818.3	5212.7	3289.2	1922.6	1871.0	1997.6	2084.3	2153.0	2215.4	2272.4	2282.3
32.5°	5821.0	5063.5	2817.4	1728.2	1830.4	1956.9	2014.7	2075.3	2142.2	2164.8	2168.4
35°	5838.2	4887.3	2320.3	1628.8	1792.4	1918.9	1965.0	2008.4	1900.0	1908.1	1915.3
37.5°	5887.9	4712.8	1904.5	1572.8	1768.0	1899.1	1954.2	1796.9	1711.9	1692.1	1689.4
40°	5981.0	4526.6	1596.3	1527.6	1759.0	1909.0	1884.6	1677.6	1531.2	1421.8	1405.5
42.5°	6110.2	4326.0	1399.2	1497.7	1765.3	1956.9	1787.9	1562.8	1319.7	1249.2	1240.1
45°	6255.8	4115.4	1292.5	1476.9	1787.0	1994.0	1768.0	1410.1	1221.1	1167.8	1163.3
47.5°	6396.8	3857.8	1237.4	1467.9	1816.8	1964.1	1683.9	1363.1	1174.1	1146.1	1148.8
50°	6558.6	3625.5	1204.0	1458.0	1843.0	1945.2	1589.0	1338.6	1156.1	1190.4	1226.6
52.5°	6695.0	3385.0	1174.1	1438.1	1853.0	1911.7	1564.6	1343.2	1156.1	1222.0	1256.4
55°	6856.8	3203.4	1139.8	1396.5	1834.0	1816.8	1547.4	1370.3	1169.6	1128.0	1131.7
57.5°	7065.6	3143.7	1101.8	1331.4	1770.7	1678.5	1539.3	1396.5	1161.5	1135.3	1144.3
60°	7354.9	3207.0	1086.5	1246.5	1672.2	1570.0	1540.2	1382.9	1104.5	1059.3	1060.3
62.5°	7630.6	3277.5	1085.6	1193.1	1551.1	1473.3	1519.4	1338.6	1075.6	1049.4	1059.3
65°	7720.9	3206.1	1042.2	1133.5	1414.6	1357.6	1481.5	1291.6	1053.9	1014.2	1012.3
67.5°	7599.8	2984.6	954.5	1036.8	1258.2	1223.0	1431.7	1235.6	1019.6	987.0	981.6
70°	7240.1	2490.2	846.0	909.3	1080.1	1071.1	1353.1	1170.5	973.5	945.5	922.0
72.5°	6272.0	1774.3	713.2	756.5	879.5	908.4	1244.6	1085.6	908.4	847.8	811.7
75°	5151.2	1313.3	585.7	594.8	668.0	746.6	1095.5	986.1	831.6	728.5	700.5
77.5°	3154.5	803.5	466.4	470.0	479.1	595.7	902.1	875.0	734.0	607.4	587.5
80°	1021.4	438.4	337.1	354.3	327.2	436.6	697.8	744.8	630.0	508.0	486.3
82.5°	388.7	255.8	227.8	239.5	226.9	292.9	508.9	596.6	516.1	417.6	339.9
85°	188.0	144.6	134.7	150.9	140.1	150.0	325.4	439.3	391.4	272.1	253.1
87.5°	66.9	64.2	51.5	69.6	59.7	53.3	99.4	221.5	258.5	187.1	167.2
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)