

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: P317670

Luminaire Tested: **GAN-SA6A-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317670
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-SA6A-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23832 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

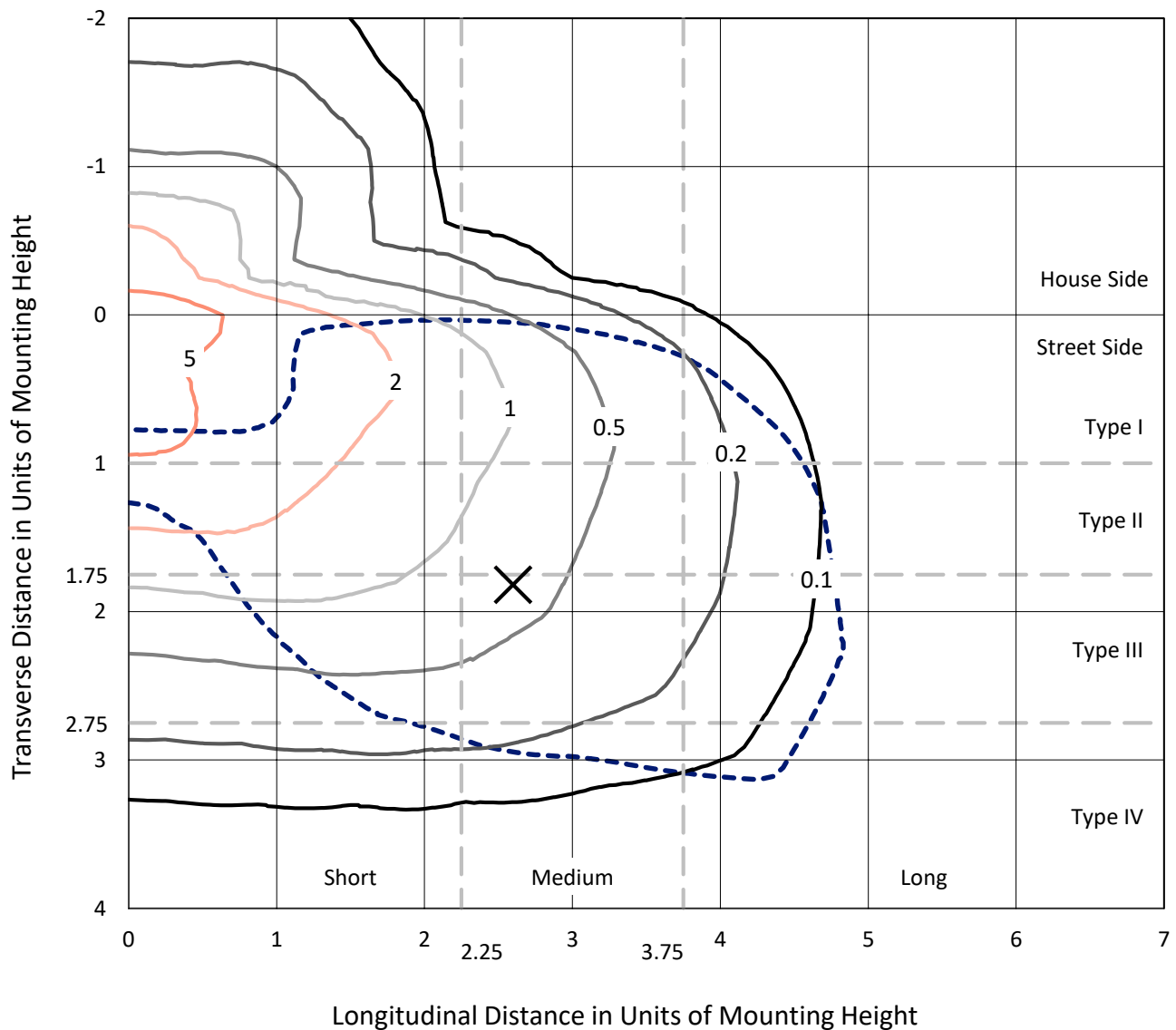
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

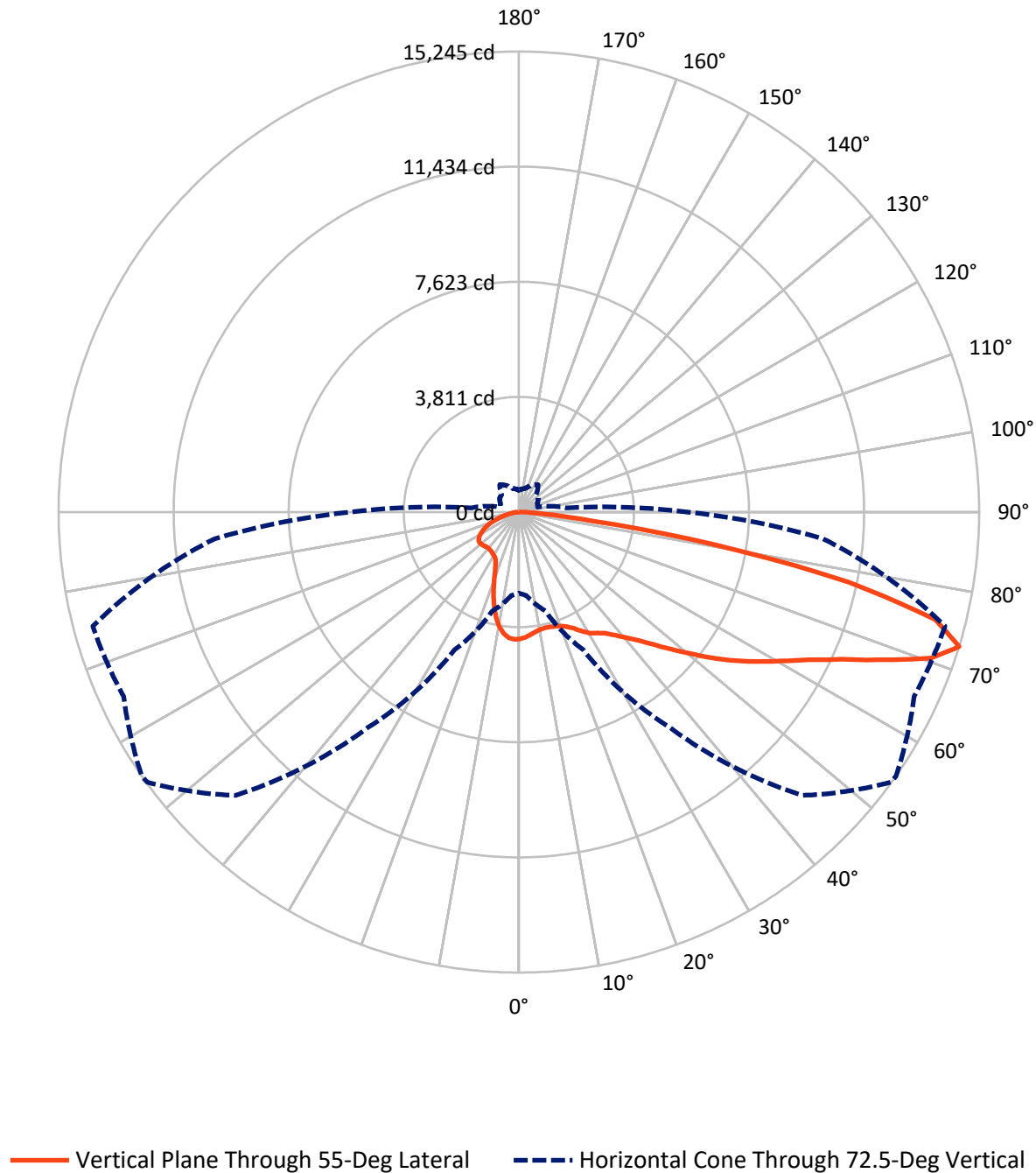
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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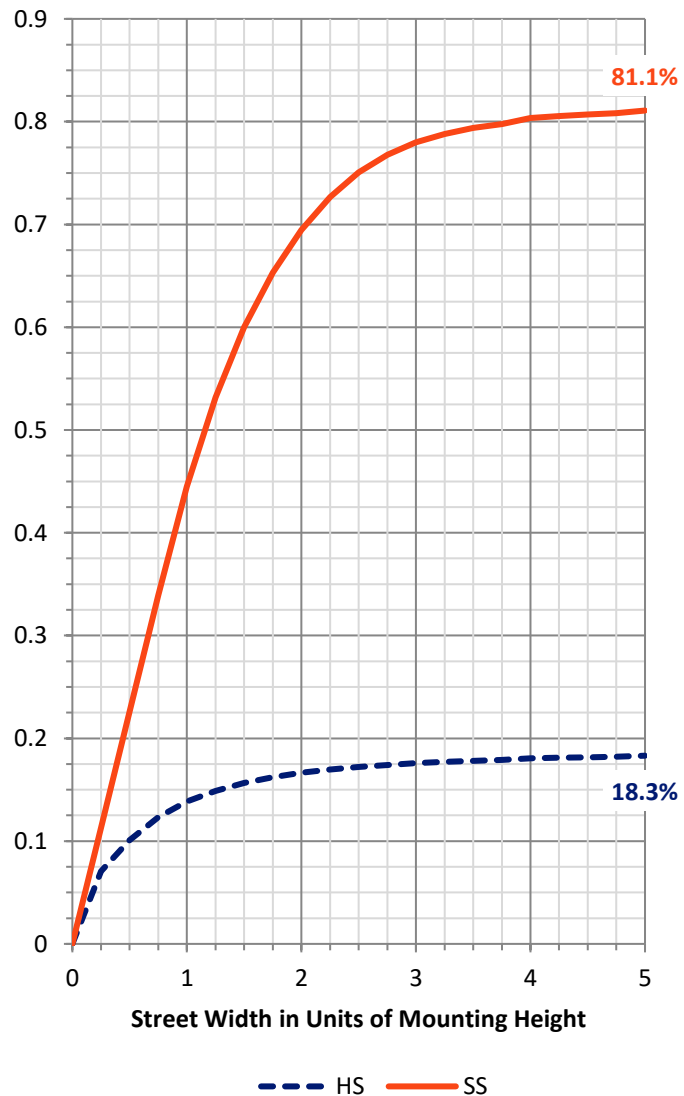
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4429.6	0.0	4429.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	19402.4	0.0	19402.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	23832.0	0.0	23832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.4	1.6
10°-20°	1012.7	4.2
20°-30°	1669.6	7.0
30°-40°	2469.8	10.4
40°-50°	3447.3	14.5
50°-60°	4488.5	18.8
60°-70°	5516.3	23.1
70°-80°	4324.1	18.1
80°-90°	523.3	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°	23832.0	100.0
0°-180°	23832.0	100.0

Coefficient of Utilization



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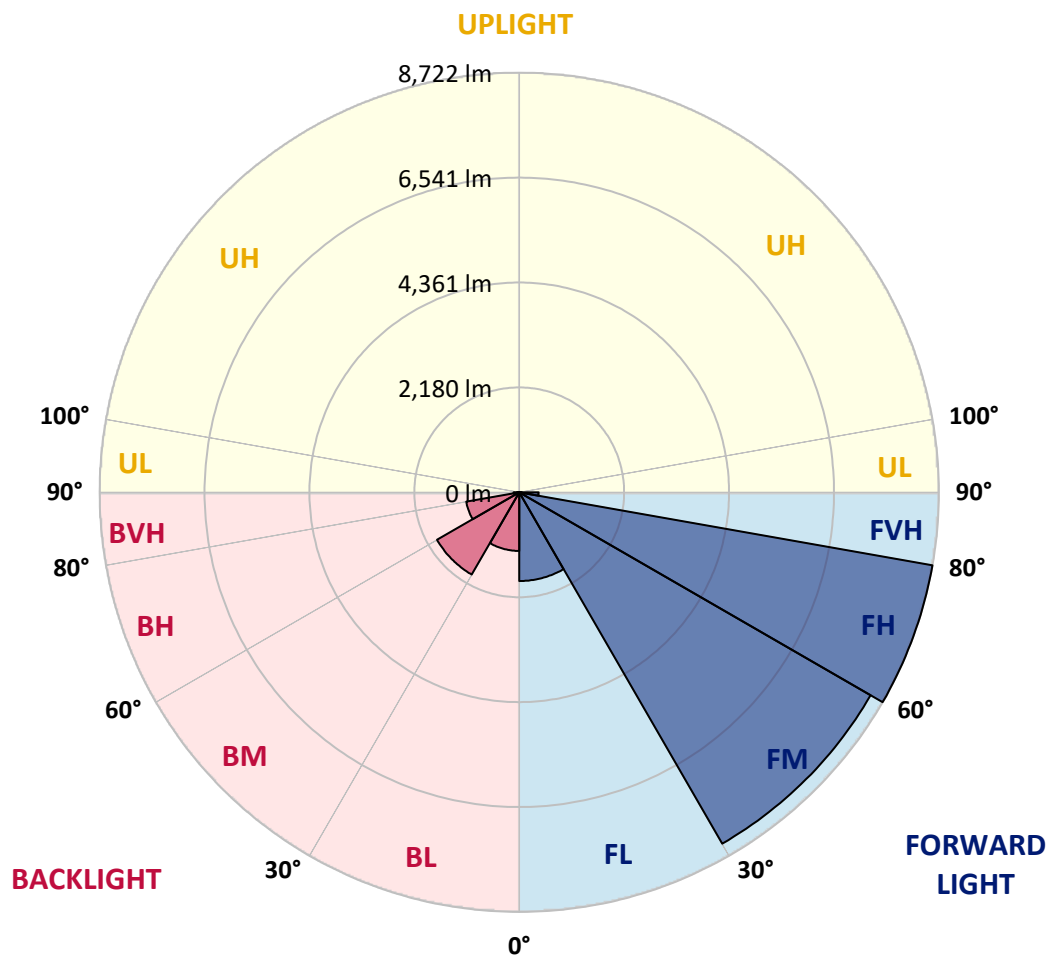
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1843.9	7.7			
FM	(30°-60°)	8432.2	35.4			
FH	(60°-80°)	8721.7	36.6			G4/12000
FVH	(80°-90°)	404.6	1.7			G3/500
BL	(0°-30°)	1218.8	5.1	B3/2500		
BM	(30°-60°)	1973.4	8.3	B2/2500		
BH	(60°-80°)	1118.7	4.7	B3/2500		G3/2500
BVH	(80°-90°)	118.7	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°	4203.5	4203.5	4203.5	4203.5	4203.5	4203.5	4203.5	4203.5	4203.5	4203.5	4203.5
2.5°	4066.6	4057.0	4069.0	4085.9	4104.4	4129.4	4143.9	4150.3	4175.3	4184.9	4205.9
5°	3878.3	3873.4	3893.5	3922.5	3963.6	4021.5	4068.2	4077.1	4143.1	4189.8	4232.4
7.5°	3741.4	3741.4	3764.8	3799.4	3845.2	3923.3	3989.3	4001.4	4113.3	4213.9	4292.8
10°	3632.7	3636.8	3664.1	3705.2	3759.1	3842.0	3929.8	3943.5	4105.2	4270.3	4395.8
12.5°	3560.3	3570.0	3594.9	3631.9	3698.7	3799.4	3910.5	3929.0	4122.2	4350.8	4519.8
15°	3606.2	3622.3	3624.7	3640.0	3677.0	3786.5	3921.7	3941.0	4158.4	4432.9	4660.7
17.5°	3807.4	3813.1	3788.1	3755.9	3738.2	3808.2	3955.5	3975.7	4201.8	4514.2	4795.9
20°	4113.3	4110.1	4056.1	3969.2	3879.1	3890.3	4011.1	4032.0	4260.6	4585.8	4931.1
22.5°	4499.7	4488.4	4405.5	4245.3	4091.6	4027.2	4108.5	4126.2	4349.1	4688.0	5076.0
25°	4968.2	4943.2	4833.7	4618.8	4392.6	4226.8	4255.0	4271.9	4477.9	4802.3	5208.8
27.5°	5462.4	5437.4	5298.2	5038.2	4737.1	4478.7	4457.0	4471.5	4624.4	4886.9	5307.0
30°	5979.2	5952.6	5825.4	5534.0	5102.6	4739.5	4645.4	4651.0	4727.5	4932.7	5387.5
32.5°	6498.4	6473.4	6330.9	5992.9	5499.4	5019.7	4781.4	4774.2	4789.5	4980.2	5478.5
35°	7024.8	7034.5	6867.8	6493.5	5938.9	5331.2	4942.4	4927.1	4893.3	5077.6	5607.3
37.5°	7588.3	7581.8	7366.1	6974.9	6398.6	5669.3	5173.4	5171.0	5054.3	5262.0	5809.3
40°	7965.0	7969.0	7837.8	7467.5	6863.0	6043.6	5469.6	5464.0	5311.1	5538.1	6074.2
42.5°	8112.3	8138.9	8172.7	7937.6	7349.2	6477.4	5823.0	5815.0	5669.3	5934.1	6385.7
45°	8122.8	8175.9	8385.2	8355.4	7841.8	6974.1	6274.6	6252.1	6147.4	6460.5	6757.6
47.5°	8032.6	8087.3	8435.1	8604.1	8282.1	7498.1	6802.6	6784.9	6694.8	7119.0	7160.0
50°	7835.4	7887.7	8332.0	8725.7	8644.4	8002.0	7411.2	7364.5	7316.2	7879.7	7620.5
52.5°	7465.9	7566.5	8194.4	8754.6	8860.9	8449.6	8051.1	8020.5	8047.1	8682.2	8081.7
55°	6590.9	6703.6	7839.4	8730.5	9021.1	8825.5	8691.1	8689.4	8827.1	9524.2	8576.7
57.5°	6100.7	6180.4	7116.6	8689.4	9211.0	9199.0	9324.5	9339.8	9607.9	10441.0	9095.1
60°	5823.8	5907.5	6750.3	8537.3	9505.7	9681.9	9970.9	10001.5	10401.6	11456.1	9719.0
62.5°	5571.9	5663.6	6523.3	8227.4	9852.6	10372.6	10745.3	10772.7	11241.9	12499.3	10321.9
65°	5141.2	5245.1	6190.9	8023.7	10168.1	11273.3	11729.7	11748.3	12207.1	13592.4	10783.1
67.5°	4532.7	4627.7	5563.8	7573.8	10401.6	12367.3	13038.6	13049.1	13164.2	14364.3	11019.0
70°	3821.9	3858.1	4670.3	6644.9	10125.5	13390.4	14473.0	14475.4	14036.7	14858.6	10980.3
72.5°	2685.3	2770.6	3390.5	5030.1	8701.5	13265.6	15217.6	15245.0	14442.4	14609.0	10102.9
75°	1646.9	1737.1	2126.7	3048.3	5520.4	10433.0	14060.1	14250.0	13681.7	13025.7	8253.2
77.5°	1101.2	1135.0	1387.7	1777.3	2501.0	6002.5	10809.7	11167.1	11365.9	9499.2	5278.1
80°	614.2	678.6	920.1	1104.4	1112.4	2385.1	6481.5	6565.2	6323.7	3782.5	1628.4
82.5°	325.2	360.6	614.2	648.8	606.9	798.5	2415.7	2418.1	2020.4	1014.2	483.8
85°	251.9	281.7	421.0	396.0	309.9	354.2	796.9	840.4	687.4	415.4	157.8
87.5°	125.6	156.2	285.8	251.1	121.5	101.4	285.0	304.3	271.3	162.6	57.2
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°	4203.5	4203.5	4203.5	4203.5	4203.5	4203.5	4203.5	4203.5	4203.5	4203.5	4203.5
2.5°	4213.9	4221.2	4230.0	4220.4	4217.1	4204.3	4182.5	4177.7	4166.4	4167.2	4173.7
5°	4250.9	4263.0	4258.2	4221.2	4176.9	4114.9	4050.5	3995.8	3959.6	3957.1	3954.7
7.5°	4321.8	4329.8	4292.0	4186.5	4062.6	3919.3	3784.1	3665.7	3594.1	3576.4	3572.4
10°	4432.9	4431.3	4327.4	4114.9	3867.8	3611.8	3394.5	3230.3	3134.5	3106.3	3099.1
12.5°	4556.8	4538.3	4339.5	3984.5	3592.5	3237.5	2962.2	2779.5	2679.7	2647.5	2639.4
15°	4684.8	4638.9	4309.7	3789.7	3254.4	2834.2	2545.3	2376.2	2322.3	2304.6	2301.4
17.5°	4803.9	4715.4	4224.4	3525.7	2868.8	2432.6	2207.2	2139.6	2152.4	2175.8	2176.6
20°	4920.7	4766.9	4087.5	3192.4	2462.3	2101.7	2025.3	2075.2	2136.3	2183.8	2190.3
22.5°	5035.8	4803.1	3911.3	2807.7	2098.5	1915.8	1969.7	2060.7	2130.7	2182.2	2191.1
25°	5132.4	4812.0	3668.2	2397.1	1845.8	1845.8	1943.2	2029.3	2098.5	2149.2	2158.1
27.5°	5167.8	4752.4	3325.3	2017.2	1718.6	1813.6	1906.1	1977.8	2036.5	2090.5	2100.1
30°	5181.5	4642.2	2929.2	1712.1	1666.2	1778.9	1856.2	1917.4	1972.9	2023.6	2032.5
32.5°	5183.9	4509.3	2509.0	1539.1	1630.0	1742.7	1794.2	1848.2	1907.7	1927.9	1931.1
35°	5199.2	4352.4	2066.3	1450.5	1596.2	1708.9	1750.0	1788.6	1692.0	1699.3	1705.7
37.5°	5243.4	4197.0	1696.0	1400.6	1574.5	1691.2	1740.3	1600.2	1524.6	1506.9	1504.5
40°	5326.4	4031.2	1421.5	1360.4	1566.4	1700.1	1678.3	1494.0	1363.6	1266.2	1251.7
42.5°	5441.5	3852.5	1246.1	1333.8	1572.1	1742.7	1592.2	1391.8	1175.2	1112.4	1104.4
45°	5571.1	3664.9	1151.1	1315.3	1591.4	1775.7	1574.5	1255.7	1087.5	1040.0	1036.0
47.5°	5696.6	3435.5	1102.0	1307.2	1618.0	1749.2	1499.6	1213.9	1045.6	1020.7	1023.1
50°	5840.7	3228.7	1072.2	1298.4	1641.3	1732.3	1415.1	1192.1	1029.5	1060.1	1092.3
52.5°	5962.3	3014.5	1045.6	1280.7	1650.1	1702.5	1393.4	1196.2	1029.5	1088.3	1118.9
55°	6106.4	2852.7	1015.0	1243.6	1633.2	1618.0	1378.1	1220.3	1041.6	1004.6	1007.8
57.5°	6292.3	2799.6	981.2	1185.7	1576.9	1494.8	1370.8	1243.6	1034.4	1011.0	1019.1
60°	6549.9	2856.0	967.6	1110.0	1489.2	1398.2	1371.6	1231.6	983.6	943.4	944.2
62.5°	6795.4	2918.8	966.7	1062.5	1381.3	1312.1	1353.1	1192.1	957.9	934.5	943.4
65°	6875.9	2855.2	928.1	1009.4	1259.7	1209.0	1319.3	1150.3	938.6	903.2	901.5
67.5°	6768.0	2657.9	850.0	923.3	1120.5	1089.1	1275.0	1100.4	908.0	879.0	874.2
70°	6447.7	2217.6	753.4	809.8	961.9	953.9	1205.0	1042.4	866.9	842.0	821.0
72.5°	5585.6	1580.1	635.1	673.7	783.2	809.0	1108.4	966.7	809.0	755.0	722.8
75°	4587.4	1169.6	521.6	529.7	594.9	664.9	975.6	878.2	740.6	648.8	623.8
77.5°	2809.3	715.6	415.4	418.6	426.6	530.5	803.3	779.2	653.6	540.9	523.2
80°	909.6	390.4	300.2	315.5	291.4	388.8	621.4	663.3	561.1	452.4	433.1
82.5°	346.1	227.8	202.8	213.3	202.0	260.8	453.2	531.3	459.6	371.9	302.7
85°	167.4	128.8	119.9	134.4	124.8	133.6	289.8	391.2	348.5	242.3	225.4
87.5°	59.6	57.2	45.9	62.0	53.1	47.5	88.5	197.2	230.2	166.6	148.9
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)