

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: P317870

Luminaire Tested: **GAN-SA6A-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317870
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-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 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: 20949 lumens
Efficiency: N/A
Efficacy: 108.5 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

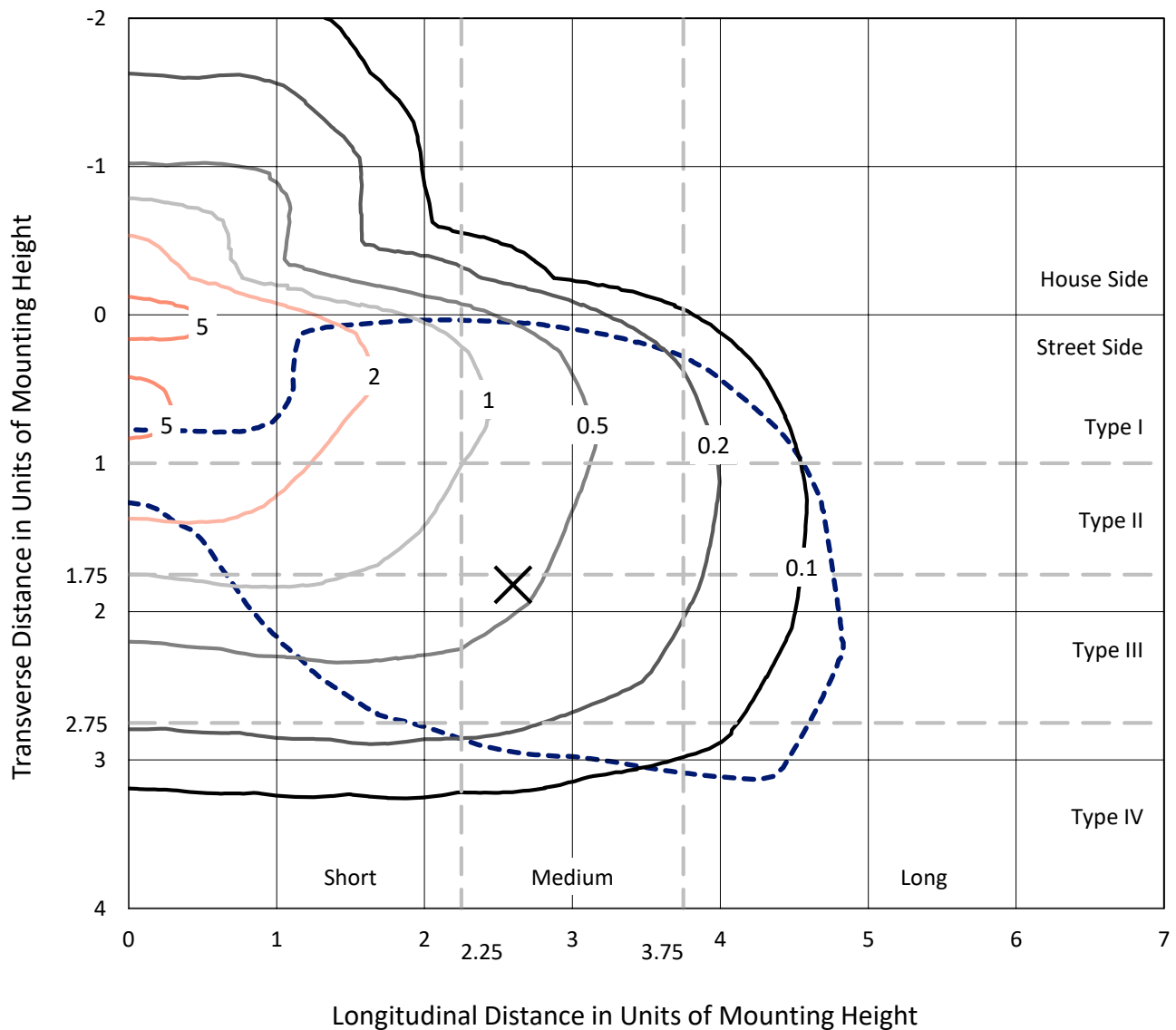


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Iso-Footcandle Lines of Horizontal Illumination

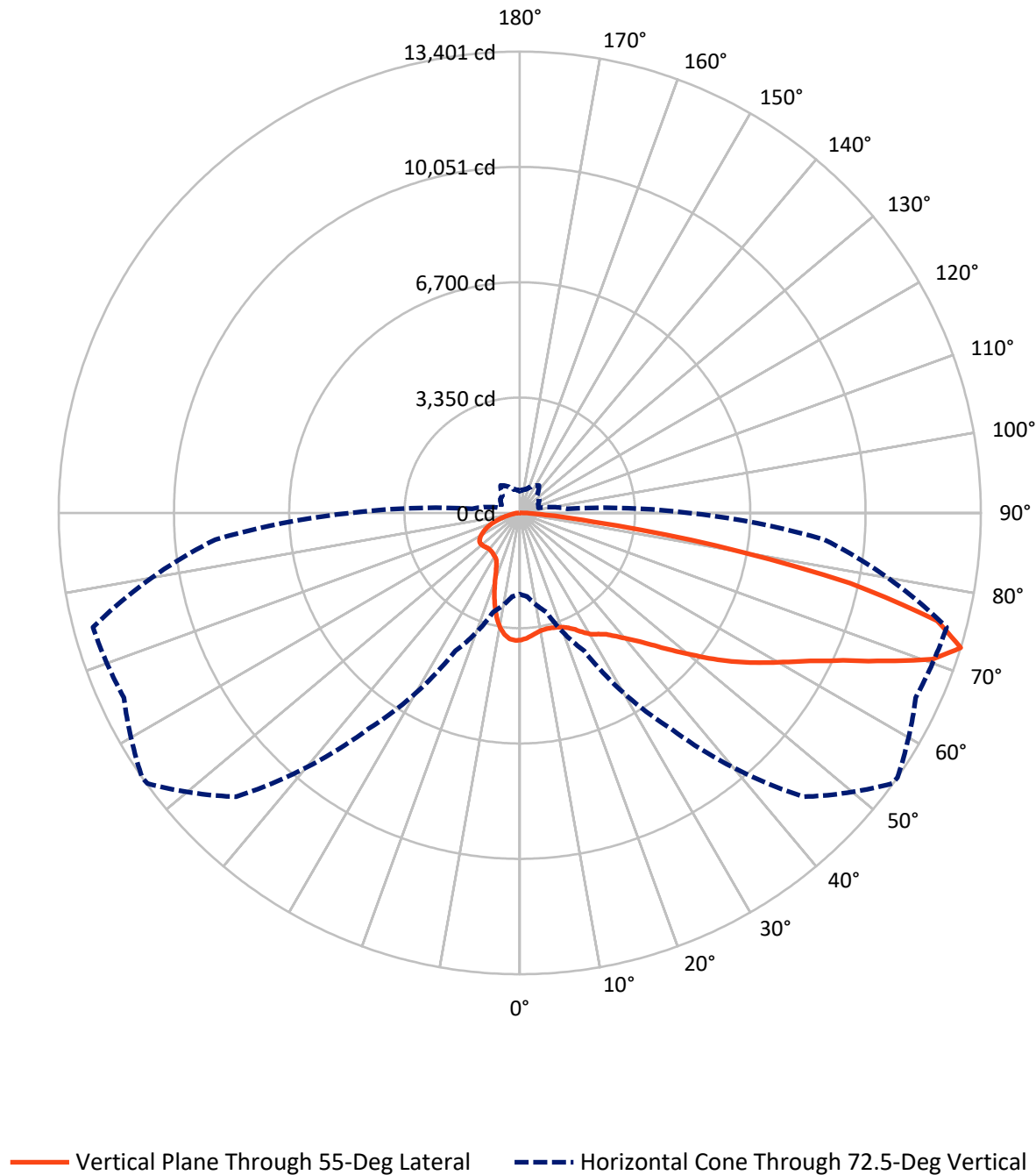
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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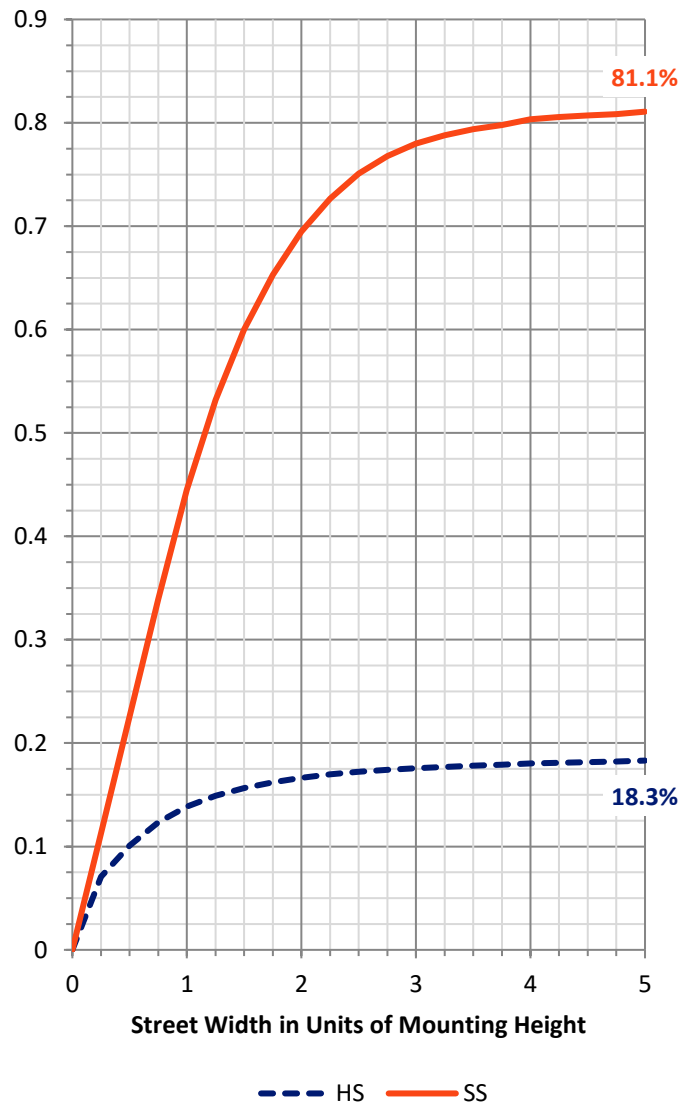
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3893.7	0.0	3893.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	17055.3	0.0	17055.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	20949.0	0.0	20949.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.3	1.6
10°-20°	890.2	4.2
20°-30°	1467.7	7.0
30°-40°	2171.0	10.4
40°-50°	3030.3	14.5
50°-60°	3945.6	18.8
60°-70°	4849.0	23.1
70°-80°	3801.0	18.1
80°-90°	460.0	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°	20949.0	100.0
0°-180°	20949.0	100.0

Coefficient of Utilization



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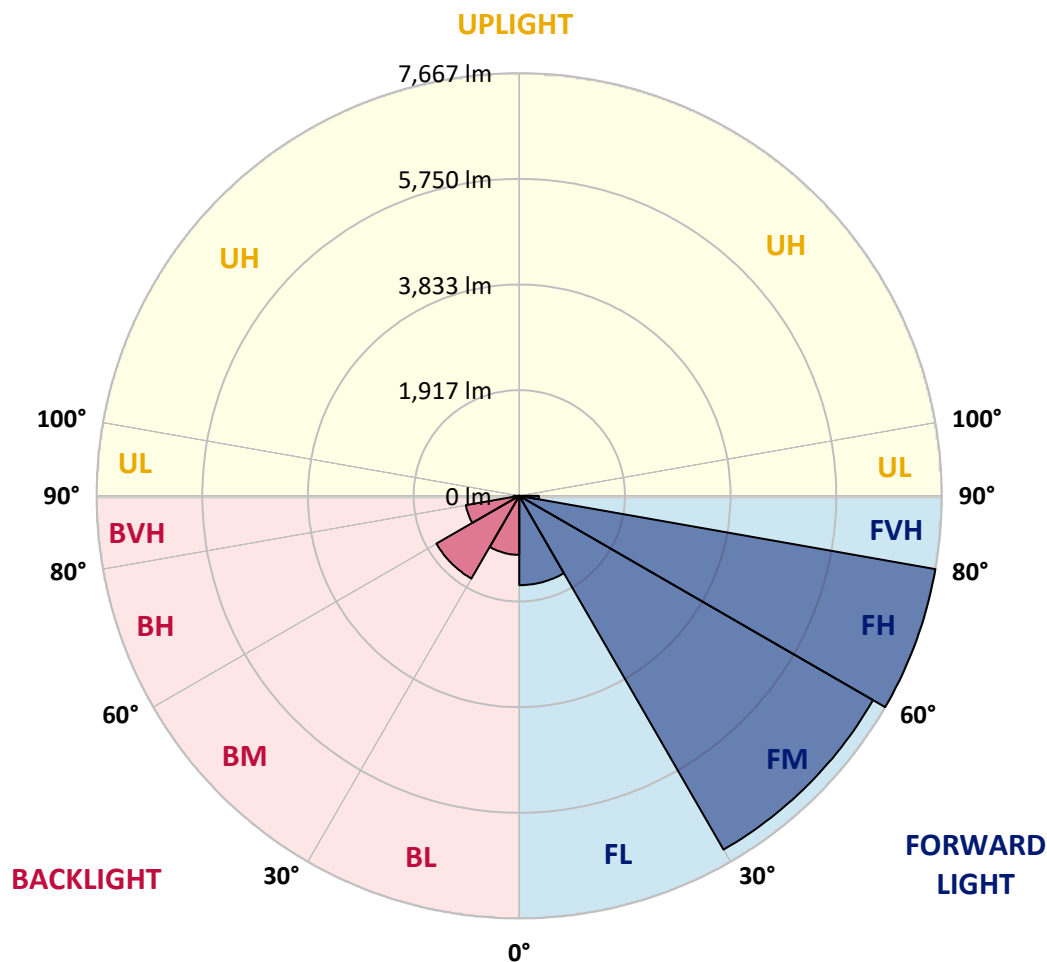
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1620.8	7.7			
FM	(30°-60°)	7412.2	35.4			
FH	(60°-80°)	7666.6	36.6			G4/12000
FVH	(80°-90°)	355.6	1.7			G3/500
BL	(0°-30°)	1071.3	5.1	B3/2500		
BM	(30°-60°)	1734.7	8.3	B2/2500		
BH	(60°-80°)	983.3	4.7	B2/1000		G2/1000
BVH	(80°-90°)	104.3	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°	3695.0	3695.0	3695.0	3695.0	3695.0	3695.0	3695.0	3695.0	3695.0	3695.0	3695.0
2.5°	3574.7	3566.2	3576.8	3591.6	3607.9	3629.9	3642.6	3648.3	3670.2	3678.7	3697.1
5°	3409.1	3404.8	3422.5	3448.0	3484.1	3535.0	3576.1	3583.9	3641.9	3682.9	3720.4
7.5°	3288.8	3288.8	3309.3	3339.8	3380.1	3448.7	3506.7	3517.4	3615.7	3704.2	3773.5
10°	3193.3	3196.8	3220.9	3257.0	3304.4	3377.3	3454.4	3466.4	3608.6	3753.7	3864.1
12.5°	3129.6	3138.1	3160.0	3192.6	3251.3	3339.8	3437.4	3453.7	3623.5	3824.4	3973.0
15°	3169.9	3184.1	3186.2	3199.7	3232.2	3328.4	3447.3	3464.3	3655.3	3896.6	4096.9
17.5°	3346.8	3351.8	3329.8	3301.5	3286.0	3347.5	3477.0	3494.7	3693.5	3968.1	4215.7
20°	3615.7	3612.9	3565.5	3489.0	3409.8	3419.7	3525.8	3544.2	3745.2	4031.1	4334.6
22.5°	3955.3	3945.4	3872.6	3731.7	3596.6	3540.0	3611.5	3627.0	3823.0	4120.9	4462.0
25°	4367.1	4345.2	4249.0	4060.1	3861.2	3715.5	3740.2	3755.1	3936.2	4221.4	4578.7
27.5°	4801.6	4779.7	4657.3	4428.7	4164.1	3936.9	3917.8	3930.6	4065.0	4295.7	4665.0
30°	5255.9	5232.5	5120.7	4864.6	4485.3	4166.2	4083.4	4088.4	4155.6	4336.0	4735.8
32.5°	5712.2	5690.3	5565.1	5267.9	4834.1	4412.4	4203.0	4196.6	4210.1	4377.8	4815.8
35°	6175.0	6183.5	6037.0	5708.0	5220.5	4686.3	4344.5	4331.1	4301.3	4463.4	4929.0
37.5°	6670.3	6664.6	6475.0	6131.1	5624.5	4983.4	4547.6	4545.5	4442.9	4625.4	5106.6
40°	7001.4	7005.0	6889.7	6564.2	6032.8	5312.5	4808.0	4803.0	4668.6	4868.1	5339.4
42.5°	7130.9	7154.3	7184.0	6977.4	6460.2	5693.9	5118.6	5111.5	4983.4	5216.2	5613.2
45°	7140.1	7186.8	7370.8	7344.6	6893.2	6130.4	5515.5	5495.7	5403.7	5679.0	5940.1
47.5°	7060.9	7109.0	7414.7	7563.3	7280.2	6591.1	5979.7	5964.1	5884.9	6257.8	6293.9
50°	6887.5	6933.5	7324.1	7670.1	7598.6	7034.0	6514.6	6473.6	6431.1	6926.4	6698.6
52.5°	6562.8	6651.2	7203.1	7695.6	7789.0	7427.4	7077.2	7050.3	7073.6	7631.9	7104.0
55°	5793.6	5892.7	6891.1	7674.4	7929.8	7757.8	7639.7	7638.3	7759.3	8372.0	7539.2
57.5°	5362.7	5432.8	6255.7	7638.3	8096.8	8086.2	8196.5	8210.0	8445.6	9177.9	7994.9
60°	5119.3	5192.9	5933.7	7504.5	8355.7	8510.7	8764.7	8791.6	9143.3	10070.2	8543.3
62.5°	4897.8	4978.5	5734.2	7232.1	8660.7	9117.8	9445.4	9469.5	9882.0	10987.2	9073.2
65°	4519.3	4610.6	5442.0	7053.1	8938.1	9909.6	10310.8	10327.0	10730.4	11948.1	9478.7
67.5°	3984.4	4067.8	4890.8	6657.6	9143.3	10871.2	11461.3	11470.5	11571.7	12626.7	9686.0
70°	3359.6	3391.4	4105.3	5841.0	8900.6	11770.5	12722.2	12724.3	12338.7	13061.1	9652.0
72.5°	2360.5	2435.5	2980.3	4421.6	7648.9	11660.8	13376.7	13400.7	12695.3	12841.8	8880.8
75°	1447.7	1526.9	1869.4	2679.6	4852.5	9170.9	12359.2	12526.2	12026.6	11450.0	7254.8
77.5°	968.0	997.7	1219.9	1562.3	2198.4	5276.4	9502.0	9816.2	9990.9	8350.1	4639.6
80°	539.9	596.5	808.8	970.8	977.9	2096.5	5697.4	5771.0	5558.7	3324.9	1431.4
82.5°	285.9	317.0	539.9	570.3	533.5	701.9	2123.4	2125.6	1776.0	891.5	425.3
85°	221.5	247.7	370.1	348.1	272.4	311.3	700.5	738.7	604.3	365.1	138.7
87.5°	110.4	137.3	251.2	220.8	106.8	89.2	250.5	267.5	238.5	142.9	50.2
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°	3695.0	3695.0	3695.0	3695.0	3695.0	3695.0	3695.0	3695.0	3695.0	3695.0	3695.0
2.5°	3704.2	3710.5	3718.3	3709.8	3707.0	3695.7	3676.6	3672.3	3662.4	3663.1	3668.8
5°	3736.7	3747.3	3743.1	3710.5	3671.6	3617.1	3560.5	3512.4	3480.6	3478.4	3476.3
7.5°	3799.0	3806.0	3772.8	3680.1	3571.1	3445.2	3326.3	3222.3	3159.3	3143.8	3140.2
10°	3896.6	3895.2	3803.9	3617.1	3399.9	3174.9	2983.8	2839.5	2755.3	2730.5	2724.2
12.5°	4005.6	3989.3	3814.5	3502.5	3157.9	2845.9	2603.9	2443.3	2355.5	2327.2	2320.1
15°	4118.1	4077.8	3788.4	3331.3	2860.7	2491.4	2237.3	2088.8	2041.4	2025.8	2023.0
17.5°	4222.8	4145.0	3713.3	3099.2	2521.8	2138.3	1940.2	1880.7	1892.1	1912.6	1913.3
20°	4325.4	4190.3	3593.1	2806.2	2164.5	1847.5	1780.3	1824.1	1877.9	1919.6	1925.3
22.5°	4426.6	4222.1	3438.1	2468.0	1844.6	1684.0	1731.4	1811.4	1872.9	1918.2	1926.0
25°	4511.5	4229.9	3224.4	2107.2	1622.5	1622.5	1708.1	1783.8	1844.6	1889.2	1897.0
27.5°	4542.6	4177.5	2923.0	1773.2	1510.7	1594.2	1675.5	1738.5	1790.2	1837.6	1846.1
30°	4554.7	4080.6	2574.9	1505.0	1464.7	1563.7	1631.7	1685.4	1734.3	1778.8	1786.6
32.5°	4556.8	3963.8	2205.5	1352.9	1432.8	1531.9	1577.2	1624.6	1677.0	1694.6	1697.5
35°	4570.2	3825.9	1816.3	1275.0	1403.1	1502.2	1538.3	1572.2	1487.3	1493.7	1499.3
37.5°	4609.1	3689.3	1490.9	1231.2	1384.0	1486.6	1529.8	1406.7	1340.1	1324.6	1322.5
40°	4682.0	3543.5	1249.6	1195.8	1376.9	1494.4	1475.3	1313.3	1198.6	1113.0	1100.3
42.5°	4783.2	3386.5	1095.3	1172.5	1381.9	1531.9	1399.6	1223.4	1033.1	977.9	970.8
45°	4897.1	3221.6	1011.8	1156.2	1398.9	1560.9	1384.0	1103.8	955.9	914.2	910.6
47.5°	5007.5	3019.9	968.7	1149.1	1422.2	1537.6	1318.2	1067.0	919.1	897.2	899.3
50°	5134.2	2838.1	942.5	1141.3	1442.7	1522.7	1243.9	1047.9	905.0	931.9	960.2
52.5°	5241.0	2649.9	919.1	1125.8	1450.5	1496.5	1224.8	1051.5	905.0	956.6	983.5
55°	5367.7	2507.6	892.3	1093.2	1435.7	1422.2	1211.4	1072.7	915.6	883.1	885.9
57.5°	5531.1	2460.9	862.5	1042.3	1386.1	1314.0	1205.0	1093.2	909.2	888.7	895.8
60°	5757.5	2510.5	850.5	975.7	1309.0	1229.1	1205.7	1082.6	864.7	829.3	830.0
62.5°	5973.3	2565.7	849.8	934.0	1214.2	1153.3	1189.4	1047.9	842.0	821.5	829.3
65°	6044.1	2509.8	815.8	887.3	1107.4	1062.8	1159.7	1011.1	825.0	793.9	792.5
67.5°	5949.3	2336.4	747.2	811.6	984.9	957.3	1120.8	967.3	798.1	772.7	768.4
70°	5667.7	1949.4	662.3	711.8	845.6	838.5	1059.2	916.3	762.1	740.1	721.7
72.5°	4909.9	1389.0	558.3	592.2	688.5	711.1	974.3	849.8	711.1	663.7	635.4
75°	4032.5	1028.1	458.5	465.6	522.9	584.5	857.6	772.0	651.0	570.3	548.4
77.5°	2469.4	629.0	365.1	367.9	375.0	466.3	706.2	684.9	574.6	475.5	459.9
80°	799.6	343.2	263.9	277.4	256.1	341.8	546.2	583.0	493.2	397.7	380.7
82.5°	304.3	200.2	178.3	187.5	177.6	229.3	398.4	467.0	404.0	326.9	266.0
85°	147.2	113.2	105.4	118.2	109.7	117.5	254.7	343.9	306.4	213.0	198.1
87.5°	52.4	50.2	40.3	54.5	46.7	41.7	77.8	173.4	202.4	146.5	130.9
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)