

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: P318640

Luminaire Tested: **GAN-SA6B-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6B-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28755 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

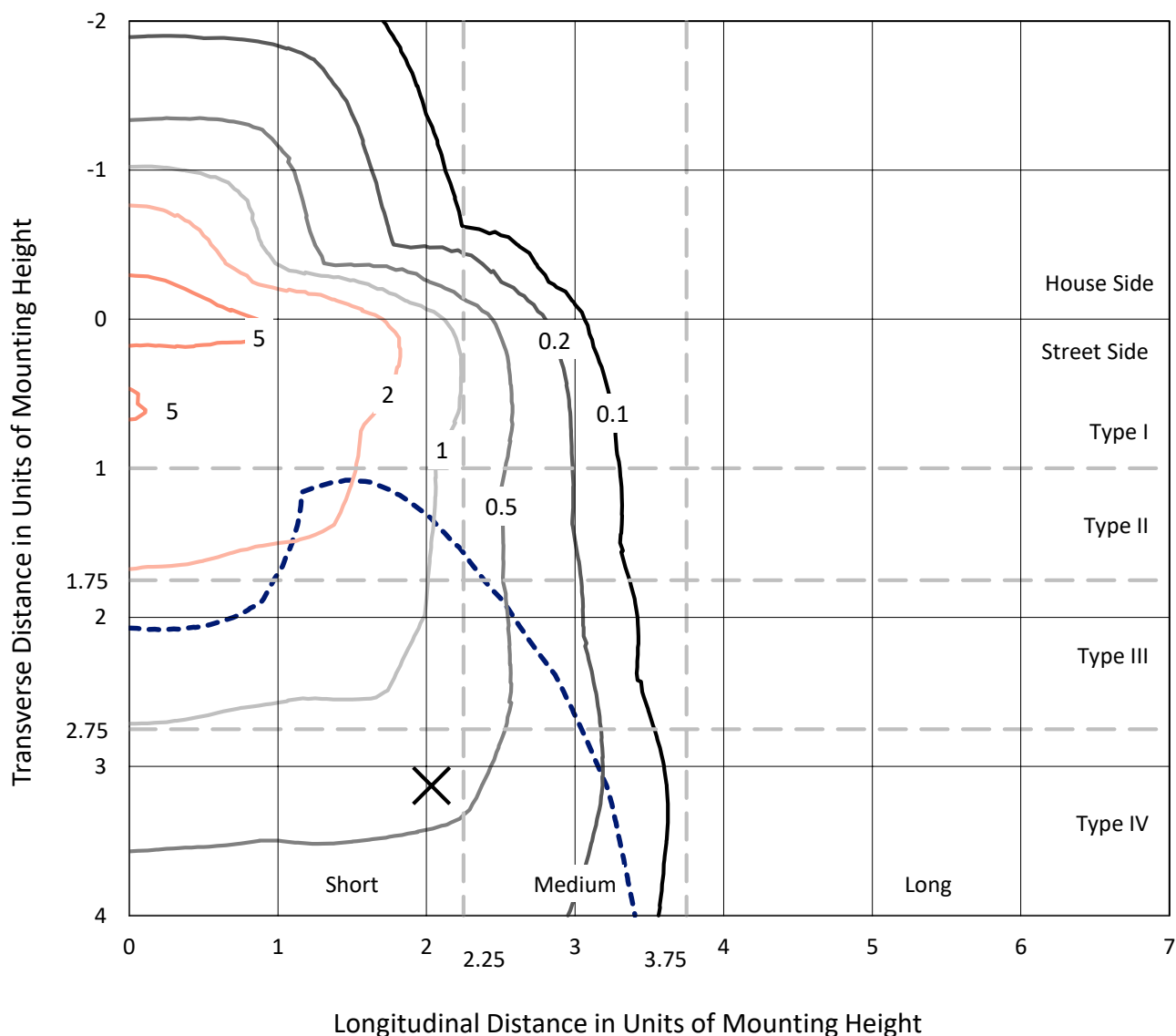
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

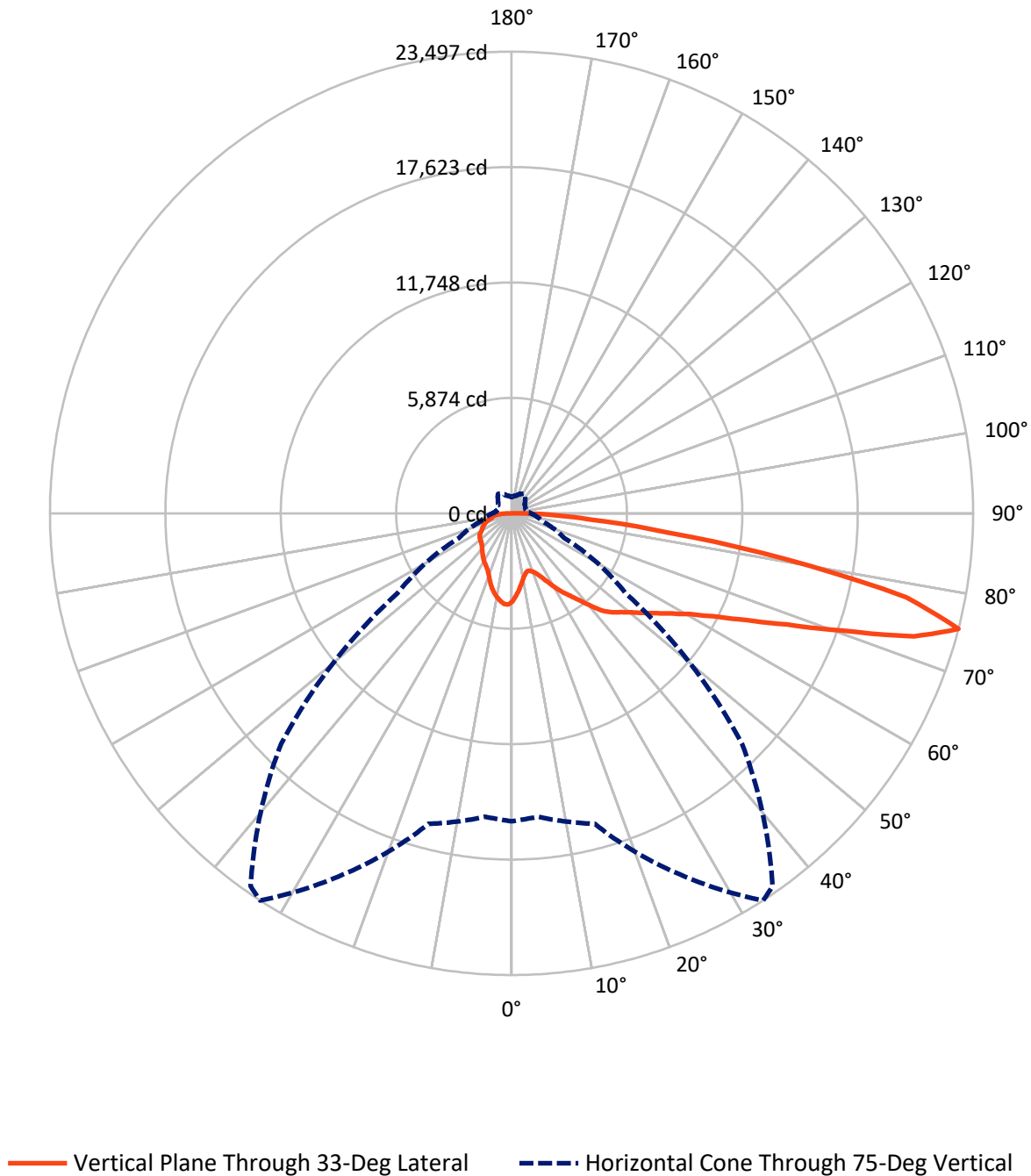
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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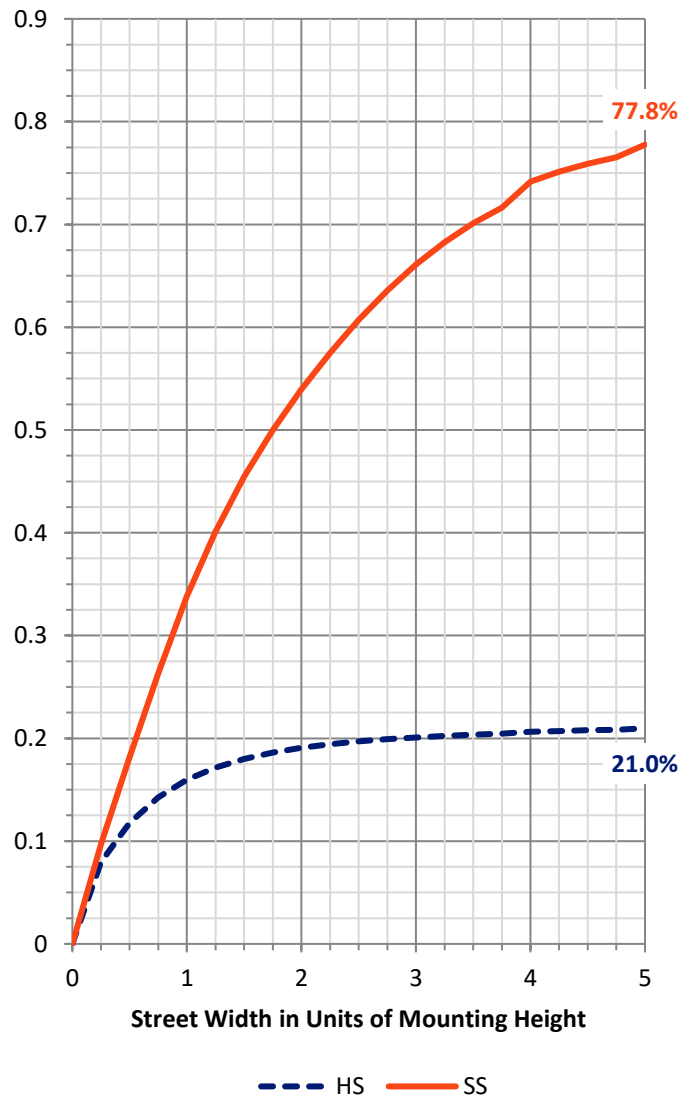
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6174.5	0.0	6174.5
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	22580.5	0.0	22580.5
	% Fixture	78.5	0.0	78.5
Total	Lumens	28755.0	0.0	28755.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.5	1.4
10°-20°	1100.9	3.8
20°-30°	1798.0	6.3
30°-40°	2677.6	9.3
40°-50°	3840.4	13.4
50°-60°	5272.2	18.3
60°-70°	6600.6	23.0
70°-80°	5971.2	20.8
80°-90°	1087.7	3.8
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°	28755.0	100.0
0°-180°	28755.0	100.0

Coefficient of Utilization



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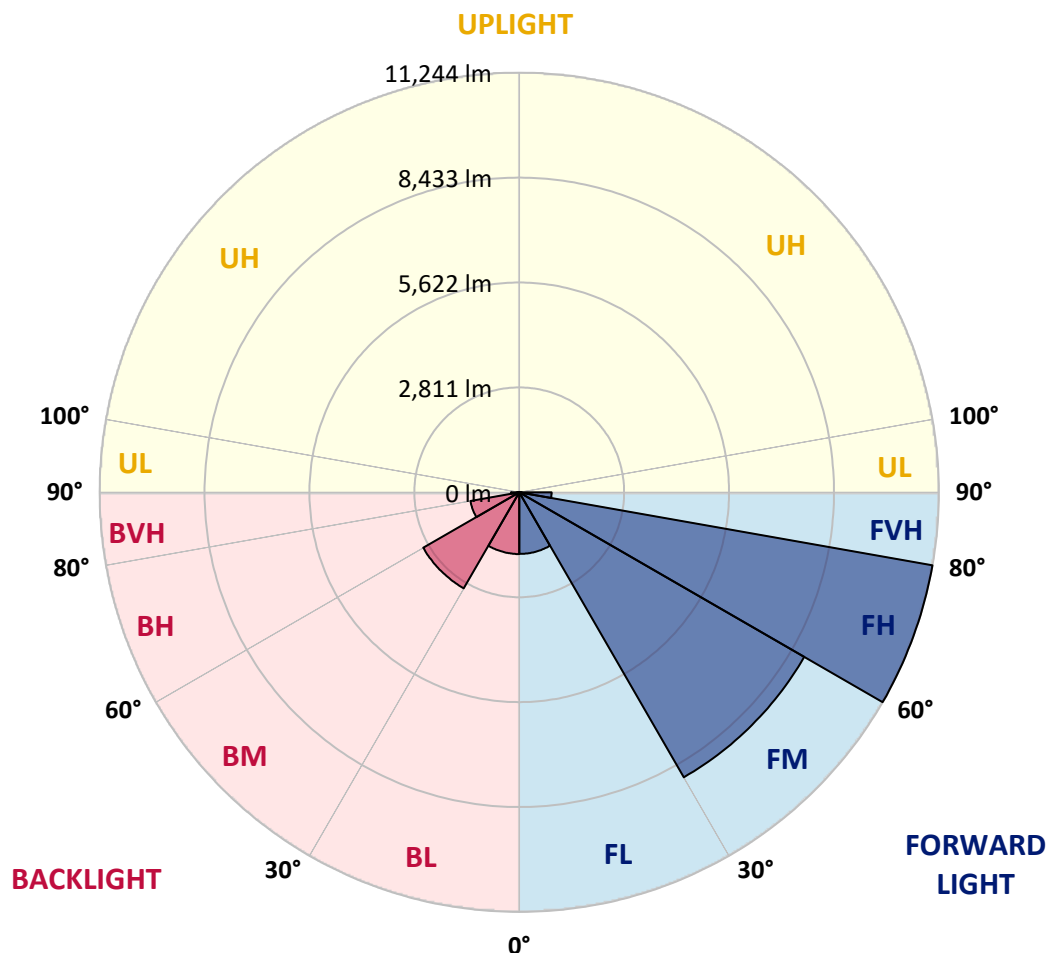
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1651.5	5.7			
FM	(30°-60°)	8818.6	30.7			
FH	(60°-80°)	11244.2	39.1			G4/12000
FVH	(80°-90°)	866.2	3.0			G5
BL	(0°-30°)	1653.8	5.8	B3/2500		
BM	(30°-60°)	2971.6	10.3	B3/5000		
BH	(60°-80°)	1327.6	4.6	B3/2500		G3/2500
BVH	(80°-90°)	221.4	0.8			G2/225
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°	33°	35°	45°	55°	65°	75°	85°
0°	4494.6	4494.6	4494.6	4494.6	4494.6	4494.6	4494.6	4494.6	4494.6	4494.6	4494.6
2.5°	4173.7	4157.8	4187.6	4191.6	4217.4	4227.4	4263.1	4318.8	4364.4	4417.1	4464.8
5°	3795.3	3784.4	3826.1	3855.9	3912.5	3936.3	4020.8	4139.0	4244.3	4363.5	4471.7
7.5°	3435.7	3429.8	3476.5	3544.0	3609.6	3642.3	3788.3	3960.2	4136.0	4328.7	4494.6
10°	3132.8	3130.8	3175.5	3242.0	3338.4	3375.1	3563.9	3790.3	4036.7	4301.9	4533.3
12.5°	2962.9	2969.9	2990.7	3046.4	3135.8	3172.5	3382.1	3648.3	3953.2	4292.9	4589.9
15°	3004.7	3015.6	2979.8	2977.8	3041.4	3070.2	3266.9	3547.0	3893.6	4307.8	4672.4
17.5°	3182.5	3184.4	3090.1	3030.5	3069.2	3084.1	3231.1	3489.4	3858.9	4341.6	4775.7
20°	3432.8	3427.8	3260.9	3161.6	3182.5	3186.4	3281.8	3490.4	3855.9	4400.2	4909.8
22.5°	3764.5	3727.8	3503.3	3368.2	3363.2	3357.3	3411.9	3563.9	3899.6	4495.6	5069.7
25°	4197.6	4162.8	3853.9	3669.2	3629.4	3614.5	3622.5	3720.8	3986.0	4597.9	5248.5
27.5°	4679.3	4618.7	4320.7	4059.5	3977.1	3956.2	3908.5	3942.3	4080.4	4696.2	5461.0
30°	5082.6	5049.8	4789.6	4479.7	4382.3	4352.5	4227.4	4190.6	4216.5	4830.3	5729.2
32.5°	5308.1	5286.2	5128.3	4878.0	4787.6	4745.9	4569.1	4495.6	4435.0	5041.9	6092.7
35°	5581.2	5567.3	5471.9	5290.2	5156.1	5112.4	4975.3	4898.8	4742.9	5332.9	6562.6
37.5°	5928.9	5914.0	5915.9	5768.9	5609.0	5568.3	5477.9	5397.5	5142.2	5715.3	7073.1
40°	6322.2	6293.4	6282.5	6275.5	6174.2	6151.3	6103.7	5994.4	5642.8	6172.2	7576.7
42.5°	6914.2	6811.9	6593.4	6675.8	6776.1	6764.2	6802.9	6646.0	6199.0	6712.5	8068.4
45°	7485.3	7317.5	6940.0	6957.9	7177.4	7244.0	7534.0	7422.7	6801.9	7304.5	8576.9
47.5°	7745.6	7618.4	7297.6	7298.6	7516.1	7654.2	8289.9	8210.4	7435.7	7977.0	9197.7
50°	8036.6	7909.4	7621.4	7729.7	7919.4	8066.4	9019.9	8979.2	8038.6	8713.0	9941.7
52.5°	8354.4	8138.9	7956.1	8149.8	8416.0	8586.9	9751.0	9639.7	8591.8	9454.0	10796.9
55°	8358.4	8299.8	8438.9	8580.9	8979.2	9188.8	10516.8	10222.8	9042.8	10182.1	11493.2
57.5°	8834.2	8738.8	9033.8	9099.4	9619.9	9856.3	11278.6	10730.3	9501.7	10740.3	11868.6
60°	9463.9	9382.5	9623.8	9796.7	10412.5	10728.4	12092.1	11251.8	9862.2	11161.4	11850.8
62.5°	10551.6	10459.2	10456.2	10698.6	11527.9	11895.5	13004.9	11763.4	10005.3	11244.9	11345.2
65°	12143.8	11996.8	11719.6	11834.9	13068.5	13435.0	14025.0	12133.8	9816.5	10797.9	10043.0
67.5°	13693.3	13688.3	13347.6	13584.0	15102.7	15396.8	15187.2	12170.6	9227.5	9241.4	7732.6
70°	15237.8	15257.7	15200.1	16022.5	17851.1	18157.1	16424.8	11676.9	7903.5	6673.8	4632.6
72.5°	16461.5	16456.6	16746.6	18867.3	21418.0	21349.4	17467.7	10181.1	5674.6	3602.6	2214.0
75°	15668.9	15496.1	16360.2	20275.7	23496.9	23162.2	16580.7	7101.9	2945.1	1639.9	1191.9
77.5°	10219.8	10383.7	11652.1	16749.6	20552.8	20145.6	12164.6	3313.6	1387.6	1075.7	864.1
80°	3700.9	3873.8	5456.1	9487.8	14160.1	14093.6	5990.4	1361.8	938.6	812.5	629.7
82.5°	1273.4	1336.9	2152.4	4213.5	7994.9	8292.8	2253.7	773.8	682.4	576.1	431.1
85°	499.6	572.1	984.3	2027.3	4032.7	4062.5	912.8	462.9	474.8	377.4	236.4
87.5°	189.7	230.4	470.8	941.6	1841.5	1691.5	326.8	220.5	270.2	224.5	112.2
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°	4494.6	4494.6	4494.6	4494.6	4494.6	4494.6	4494.6	4494.6	4494.6	4494.6	4494.6
2.5°	4501.5	4522.4	4566.1	4595.9	4627.7	4636.6	4640.6	4648.5	4656.5	4653.5	4654.5
5°	4529.3	4570.1	4640.6	4670.4	4684.3	4668.4	4637.6	4612.8	4594.9	4585.0	4582.0
7.5°	4575.0	4632.6	4708.1	4703.2	4671.4	4600.8	4521.4	4461.8	4412.1	4394.2	4384.3
10°	4635.6	4703.2	4755.8	4699.2	4606.8	4484.6	4365.4	4273.1	4198.6	4169.8	4164.8
12.5°	4713.1	4781.6	4791.6	4671.4	4518.4	4351.5	4189.6	4067.5	3956.2	3920.5	3912.5
15°	4813.4	4878.0	4816.4	4622.7	4409.1	4184.7	3975.1	3809.2	3692.0	3648.3	3632.4
17.5°	4918.7	4980.3	4821.4	4542.2	4266.1	3987.0	3723.8	3553.9	3419.8	3369.2	3363.2
20°	5044.8	5072.7	4800.5	4427.0	4069.4	3730.7	3453.6	3293.7	3222.2	3186.4	3182.5
22.5°	5200.8	5171.0	4752.8	4271.1	3820.1	3434.7	3209.3	3134.8	3116.9	3108.9	3111.9
25°	5365.7	5274.3	4682.3	4067.5	3505.3	3138.7	3030.5	3051.3	3075.2	3072.2	3072.2
27.5°	5547.4	5379.6	4574.0	3797.3	3156.6	2896.4	2909.3	2985.8	3021.5	3020.5	3019.6
30°	5780.9	5498.8	4436.0	3472.5	2830.8	2725.5	2804.0	2897.4	2946.1	2944.1	2945.1
32.5°	6067.9	5629.9	4248.2	3109.9	2595.4	2599.4	2689.8	2782.2	2838.8	2833.8	2834.8
35°	6403.6	5776.9	3994.0	2752.4	2439.5	2499.1	2570.6	2635.2	2688.8	2681.8	2674.9
37.5°	6769.2	5920.9	3656.2	2432.5	2312.3	2405.7	2465.3	2476.2	2501.1	2483.2	2470.3
40°	7116.8	6031.2	3221.2	2170.3	2184.2	2326.2	2365.0	2321.3	2276.6	2270.6	2252.7
42.5°	7419.8	6067.9	2781.2	1960.7	2049.1	2242.8	2266.7	2175.3	2094.8	2057.1	2041.2
45°	7739.6	6080.8	2370.9	1784.9	1919.0	2168.3	2194.1	2072.0	1958.7	1877.3	1850.5
47.5°	8157.8	6174.2	2052.1	1654.8	1819.7	2118.7	2155.4	1989.5	1842.5	1726.3	1701.5
50°	8705.1	6358.9	1792.9	1555.5	1755.1	2085.9	2127.6	1909.1	1747.2	1607.1	1582.3
52.5°	9312.9	6528.8	1583.3	1475.0	1692.5	2028.3	2091.8	1851.5	1657.8	1496.9	1470.0
55°	9738.1	6398.7	1414.4	1391.6	1611.1	1945.8	2042.2	1802.8	1529.6	1389.6	1365.8
57.5°	9819.5	5953.7	1286.3	1305.2	1512.8	1842.5	1965.7	1694.5	1460.1	1342.9	1318.1
60°	9597.0	5333.9	1190.9	1225.7	1407.5	1712.4	1822.7	1618.0	1393.6	1293.2	1272.4
62.5°	9037.8	4699.2	1120.4	1154.2	1309.1	1580.3	1733.3	1537.6	1326.0	1236.6	1215.8
65°	7908.5	3945.3	1052.9	1090.6	1217.8	1466.1	1652.8	1463.1	1259.5	1190.9	1171.1
67.5°	5969.6	2955.0	989.3	1023.1	1136.3	1366.7	1565.4	1389.6	1194.9	1151.2	1127.4
70°	3515.2	1850.5	916.8	952.6	1050.9	1263.4	1472.0	1309.1	1114.5	1094.6	1063.8
72.5°	1635.9	1113.5	834.4	869.1	943.6	1125.4	1351.8	1203.8	1019.1	975.4	933.7
75°	976.4	814.5	737.0	767.8	820.4	978.4	1200.9	1096.6	928.7	871.1	827.4
77.5°	730.1	622.8	629.7	662.5	705.2	856.2	1063.8	1012.1	859.2	814.5	784.7
80°	525.4	472.8	513.5	549.3	594.0	778.7	1019.1	935.7	776.7	717.1	689.3
82.5°	350.6	339.7	386.4	423.1	466.8	681.4	957.5	819.5	663.5	588.0	526.4
85°	193.7	204.6	260.2	276.1	313.9	479.8	784.7	658.5	499.6	402.3	384.4
87.5°	80.5	94.4	140.1	135.1	166.9	286.1	516.5	397.3	317.8	237.4	184.7
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)