

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: P319170

Luminaire Tested: **GAN-SA6C-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6C-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30880 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

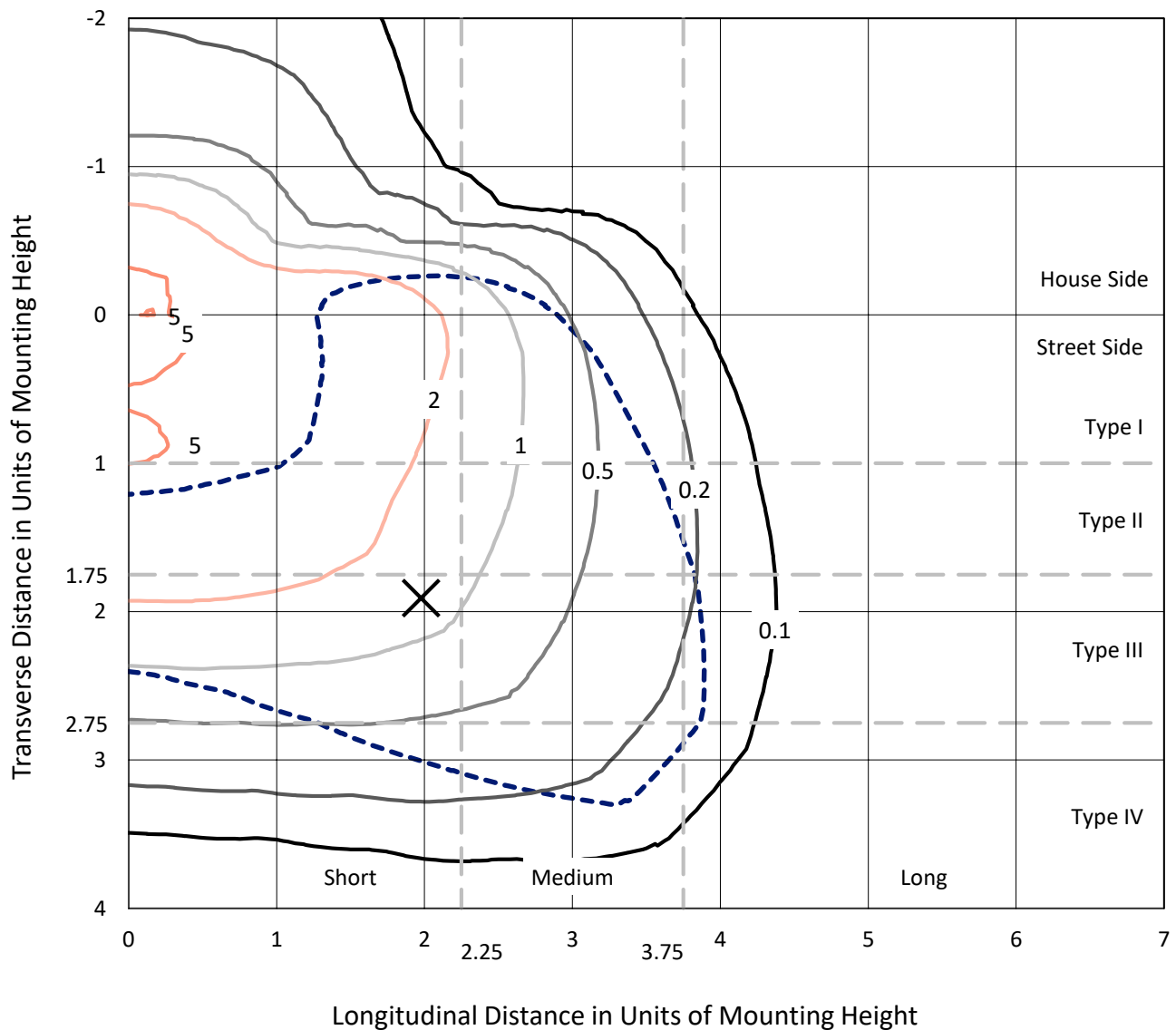
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

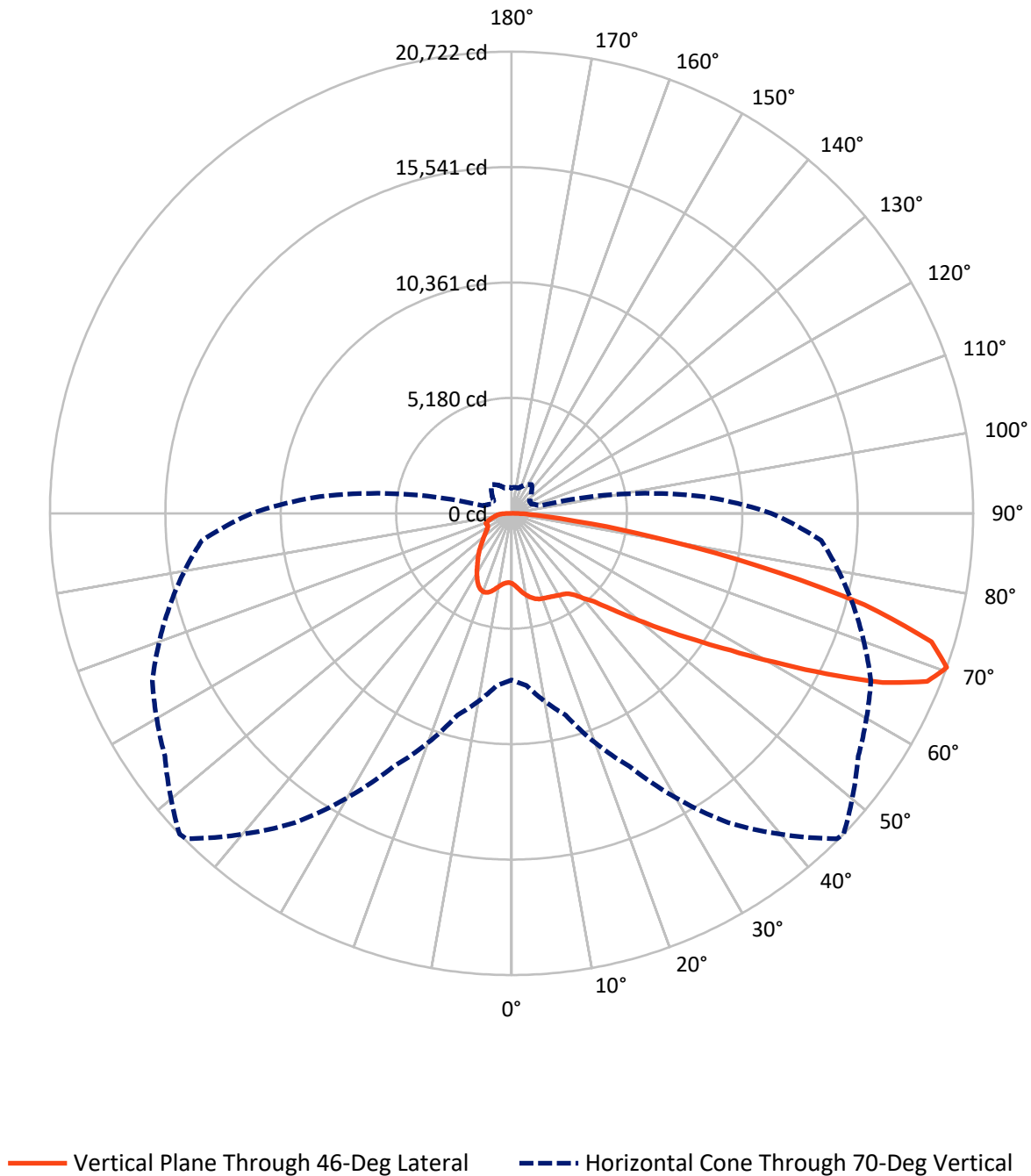
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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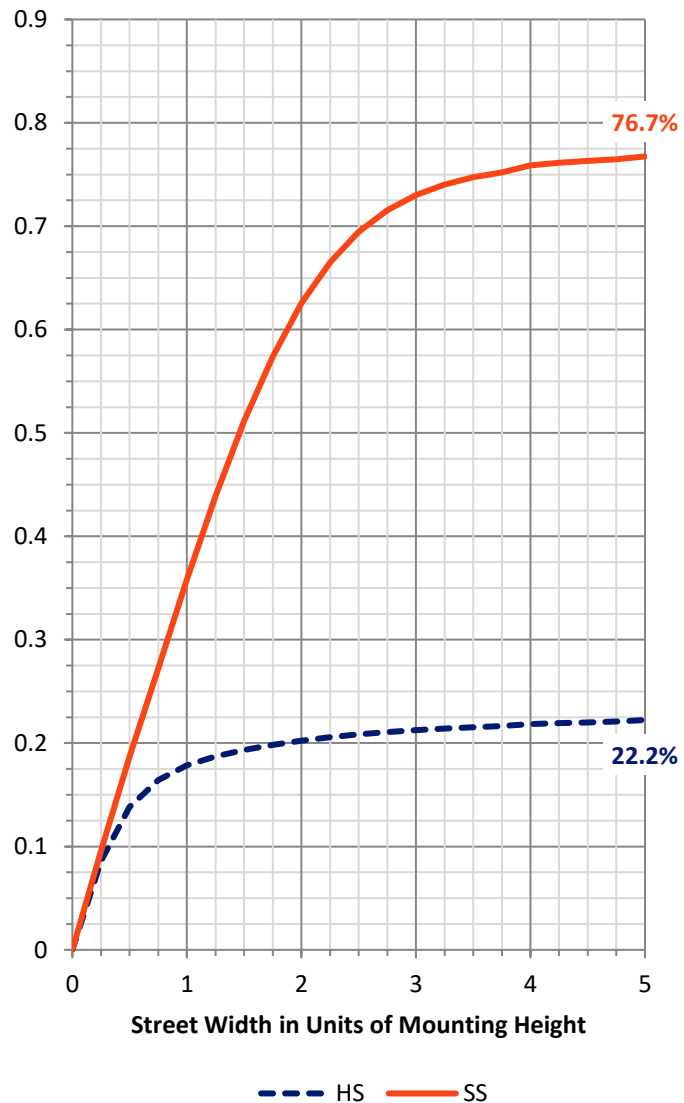
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7077.6	0.0	7077.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	23802.4	0.0	23802.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	30880.0	0.0	30880.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.7	1.0
10°-20°	1068.5	3.5
20°-30°	1781.7	5.8
30°-40°	2528.3	8.2
40°-50°	3719.0	12.0
50°-60°	6298.1	20.4
60°-70°	8940.0	29.0
70°-80°	5431.1	17.6
80°-90°	792.6	2.6
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°	30880.0	100.0
0°-180°	30880.0	100.0

Coefficient of Utilization



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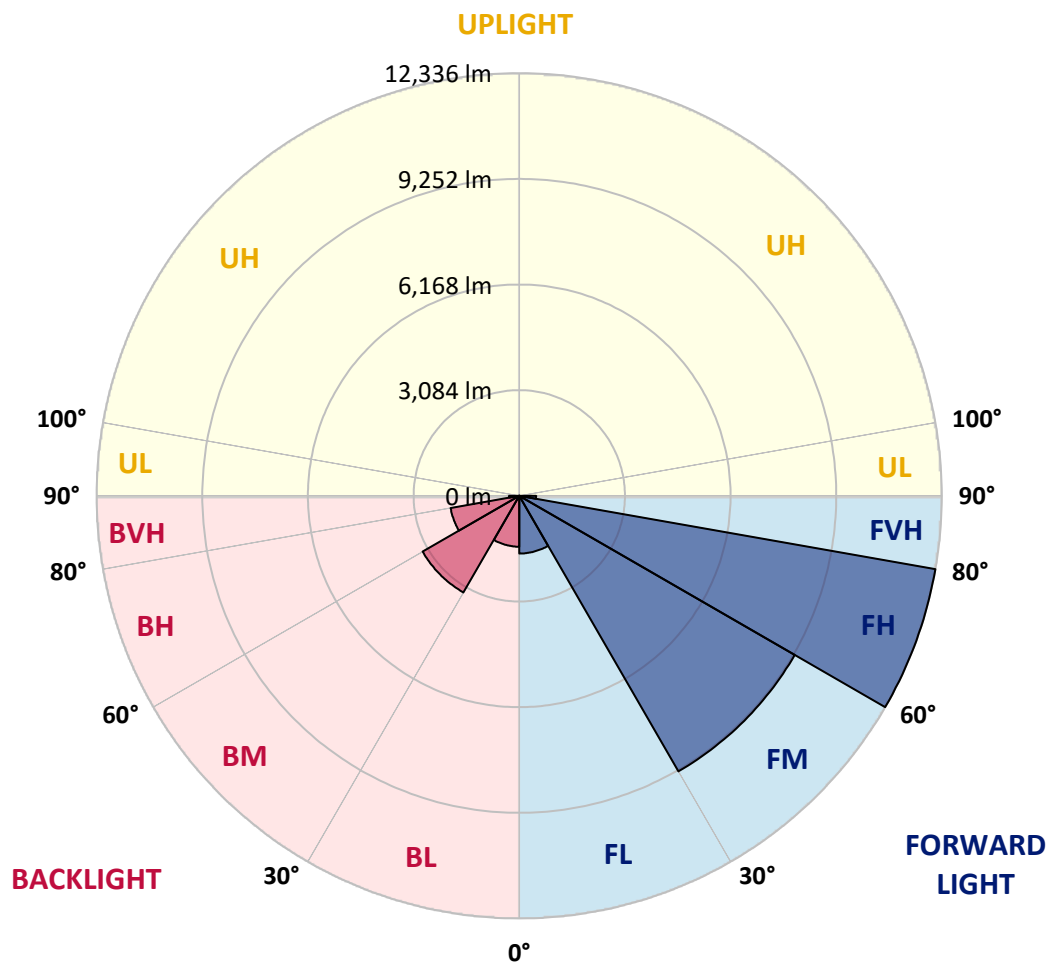
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1685.0	5.5			
FM	(30°-60°)	9287.3	30.1			
FH	(60°-80°)	12336.4	39.9			G5
FVH	(80°-90°)	493.7	1.6			G3/500
BL	(0°-30°)	1486.0	4.8	B3/2500		
BM	(30°-60°)	3258.0	10.6	B3/5000		
BH	(60°-80°)	2034.8	6.6	B3/2500		G3/2500
BVH	(80°-90°)	298.9	1.0			G3/500
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°	45°	46°	55°	65°	75°	85°
0°	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1
2.5°	3303.5	3305.6	3309.9	3299.3	3269.7	3261.3	3258.1	3227.4	3207.4	3177.8	3152.4
5°	3567.7	3569.8	3563.5	3533.9	3468.4	3419.8	3415.5	3345.8	3282.4	3214.8	3164.0
7.5°	3843.5	3846.7	3826.6	3770.6	3678.7	3594.1	3588.9	3493.8	3397.6	3295.1	3219.0
10°	4087.7	4075.0	4042.2	3964.0	3855.2	3751.6	3747.4	3648.0	3537.1	3413.4	3312.0
12.5°	4250.4	4239.8	4197.6	4102.5	3983.0	3887.9	3879.5	3787.5	3679.7	3544.5	3422.9
15°	4340.2	4347.6	4290.6	4182.8	4066.5	3986.2	3978.8	3913.3	3817.1	3680.8	3541.3
17.5°	4351.9	4358.2	4303.3	4196.5	4101.4	4046.5	4043.3	4000.0	3930.2	3799.2	3653.3
20°	4284.2	4288.5	4243.0	4155.3	4093.0	4076.0	4075.0	4056.0	4004.2	3887.9	3746.3
22.5°	4186.0	4189.1	4156.4	4093.0	4071.8	4098.2	4105.6	4098.2	4061.2	3952.4	3819.2
25°	4161.6	4159.5	4125.7	4061.2	4079.2	4135.2	4144.7	4147.9	4122.5	4027.4	3912.2
27.5°	4278.9	4271.6	4207.1	4103.5	4115.1	4182.8	4195.5	4226.1	4210.3	4126.8	4017.9
30°	4618.2	4605.5	4473.4	4264.2	4207.1	4242.0	4257.8	4306.4	4309.6	4239.8	4158.5
32.5°	5191.0	5175.1	4938.4	4564.3	4362.4	4302.2	4317.0	4389.9	4429.0	4375.1	4287.4
35°	5914.9	5896.9	5586.2	5074.7	4622.4	4417.4	4428.0	4486.1	4564.3	4488.2	4371.9
37.5°	6669.4	6626.1	6327.0	5675.0	5035.6	4663.6	4663.6	4671.0	4708.0	4549.5	4471.3
40°	7419.7	7376.4	7105.9	6380.9	5570.3	5051.5	5027.2	4863.4	4833.8	4697.4	4671.0
42.5°	8117.2	8104.5	7945.0	7178.8	6198.1	5433.0	5399.1	5121.2	5127.6	5043.0	5044.1
45°	8859.1	8859.1	8729.1	7984.1	6929.4	6045.9	6012.1	5603.1	5666.5	5627.4	5721.5
47.5°	9464.6	9483.6	9465.7	8823.2	7780.1	6824.8	6763.5	6271.0	6448.5	6582.8	6856.5
50°	10082.8	10112.4	10115.6	9743.6	8808.4	7750.5	7680.8	7157.6	7553.9	7938.6	8476.5
52.5°	10980.1	11046.6	10781.4	10662.0	10068.1	8849.6	8780.9	8297.9	8959.5	9499.5	10426.3
55°	11811.8	11753.6	11564.5	11638.4	11416.5	10100.8	10049.0	9625.3	10525.6	11227.4	12431.0
57.5°	12261.9	12257.7	12447.9	12765.0	12870.7	11643.7	11600.4	11188.2	12291.5	12818.9	14313.2
60°	12790.3	12797.7	13269.1	13988.7	14424.1	13565.0	13546.0	13233.1	14006.7	14304.7	15789.5
62.5°	12864.3	12997.5	13809.1	15047.7	15878.3	15809.6	15851.9	15075.1	15541.2	15490.4	16891.8
65°	12013.6	12189.0	13658.0	15367.9	17324.0	18264.5	18303.6	16927.7	16751.2	16503.9	17285.9
67.5°	10269.9	10529.9	12125.6	14671.4	17800.6	20079.0	20134.0	18363.9	17755.1	16847.4	16336.9
70°	7473.6	7762.1	9368.5	12530.4	16950.9	20659.2	20721.6	18999.0	17793.2	15869.8	13946.5
72.5°	4514.6	4740.8	6064.9	9224.7	14306.8	19602.4	19713.4	18193.7	16245.0	13442.4	10298.4
75°	1982.5	2130.5	2932.6	5315.7	10242.4	16218.6	16357.0	15572.9	13199.3	9769.0	6087.1
77.5°	844.4	886.6	1202.6	2309.1	5790.2	11082.6	11272.8	11378.5	8955.2	5315.7	2572.2
80°	526.3	543.2	680.6	1045.2	2709.6	6224.5	6429.5	6694.8	4447.0	1954.0	898.3
82.5°	320.2	339.2	452.3	632.0	1410.8	2821.6	2919.9	3107.0	1725.7	844.4	465.0
85°	192.3	206.1	276.9	399.5	803.2	1109.6	1108.6	1225.9	812.7	543.2	245.2
87.5°	91.9	102.5	148.0	207.1	404.8	416.4	390.0	441.7	493.5	356.1	123.6
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°	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1	3146.1
2.5°	3144.0	3139.7	3126.0	3115.4	3113.3	3107.0	3101.7	3104.9	3109.1	3110.1	3110.1
5°	3142.9	3131.3	3113.3	3105.9	3115.4	3128.1	3144.0	3165.1	3177.8	3187.3	3193.6
7.5°	3193.6	3171.4	3151.4	3147.1	3166.1	3200.0	3235.9	3280.3	3310.9	3332.1	3336.3
10°	3278.2	3250.7	3230.6	3234.8	3268.7	3317.3	3368.0	3425.1	3471.6	3500.1	3502.2
12.5°	3375.4	3349.0	3329.9	3347.9	3403.9	3463.1	3515.9	3565.6	3607.9	3636.4	3636.4
15°	3487.4	3468.4	3446.2	3487.4	3563.5	3616.3	3638.5	3662.8	3686.1	3707.2	3703.0
17.5°	3595.2	3577.2	3565.6	3614.2	3693.5	3717.8	3703.0	3685.0	3685.0	3696.7	3698.8
20°	3688.2	3672.3	3679.7	3727.3	3768.5	3743.2	3688.2	3631.1	3607.9	3614.2	3620.6
22.5°	3769.6	3762.2	3784.4	3806.6	3777.0	3688.2	3586.7	3509.6	3481.1	3479.0	3481.1
25°	3864.7	3863.6	3891.1	3850.9	3719.9	3556.1	3419.8	3344.7	3328.9	3341.6	3362.7
27.5°	3983.0	3994.7	4008.4	3861.5	3603.7	3356.4	3217.9	3166.1	3182.0	3212.6	3232.7
30°	4134.2	4165.9	4136.3	3835.1	3436.7	3128.1	2996.0	2981.2	3024.5	3067.9	3089.0
32.5°	4281.1	4330.7	4258.9	3766.4	3221.1	2886.1	2783.6	2779.4	2832.2	2874.5	2904.1
35°	4399.4	4497.7	4350.8	3630.1	2971.7	2663.1	2588.1	2559.5	2578.6	2628.2	2662.1
37.5°	4553.7	4717.5	4414.2	3421.9	2701.2	2479.2	2391.5	2326.0	2309.1	2329.2	2346.1
40°	4835.9	5052.5	4443.8	3131.3	2437.0	2295.4	2206.6	2110.4	2043.8	1995.2	1996.3
42.5°	5296.6	5489.0	4424.8	2778.3	2192.8	2115.7	2015.3	1904.3	1796.5	1686.6	1678.2
45°	6044.8	6137.8	4367.7	2404.2	1978.3	1927.6	1833.5	1722.6	1578.8	1454.1	1442.5
47.5°	7242.2	7036.1	4278.9	2077.7	1789.1	1768.0	1681.4	1553.5	1401.3	1300.9	1292.5
50°	8874.9	8332.8	4235.6	1817.7	1622.2	1628.5	1557.7	1422.4	1278.7	1204.7	1196.3
52.5°	10827.9	9843.0	4319.1	1616.9	1488.0	1510.2	1457.3	1330.5	1210.0	1151.9	1143.4
55°	12853.8	11407.0	4408.9	1471.1	1361.1	1404.5	1386.5	1281.9	1173.0	1119.1	1111.7
57.5°	14587.9	12574.8	4229.3	1352.7	1248.1	1315.7	1331.6	1251.2	1154.0	1105.4	1096.9
60°	15679.6	13045.0	3757.9	1241.7	1158.2	1244.9	1299.9	1242.8	1161.4	1157.2	1150.8
62.5°	16197.4	13003.8	3051.0	1154.0	1102.2	1214.3	1323.1	1290.3	1246.0	1284.0	1287.2
65°	15964.9	12382.4	2272.1	1095.9	1062.1	1225.9	1392.9	1380.2	1270.3	1308.3	1313.6
67.5°	14434.7	10899.7	1682.4	1045.2	1017.7	1258.6	1519.7	1409.8	1222.7	1250.2	1233.3
70°	11667.0	8641.4	1297.7	988.1	972.2	1254.4	1576.7	1391.8	1170.9	1177.3	1131.8
72.5°	8045.4	5892.7	1055.7	935.3	906.7	1143.4	1536.6	1347.4	1127.6	1079.0	1018.7
75°	4375.1	3163.0	897.2	880.3	791.5	1004.0	1462.6	1315.7	1088.5	1024.0	990.2
77.5°	1721.5	1312.5	778.9	805.3	692.2	886.6	1380.2	1255.5	1034.6	950.1	933.1
80°	702.8	670.0	645.7	696.4	595.0	775.7	1280.8	1184.7	970.1	881.4	847.5
82.5°	398.4	416.4	502.0	549.5	483.0	714.4	1233.3	1127.6	893.0	789.4	749.3
85°	204.0	244.1	349.8	394.2	355.1	607.7	1136.1	987.0	716.5	604.5	607.7
87.5°	98.3	136.3	220.9	247.3	230.4	439.6	848.6	715.4	558.0	441.7	428.0
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)