

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: P319910

Luminaire Tested: **GAN-SA6A-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319910
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6A-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22149 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

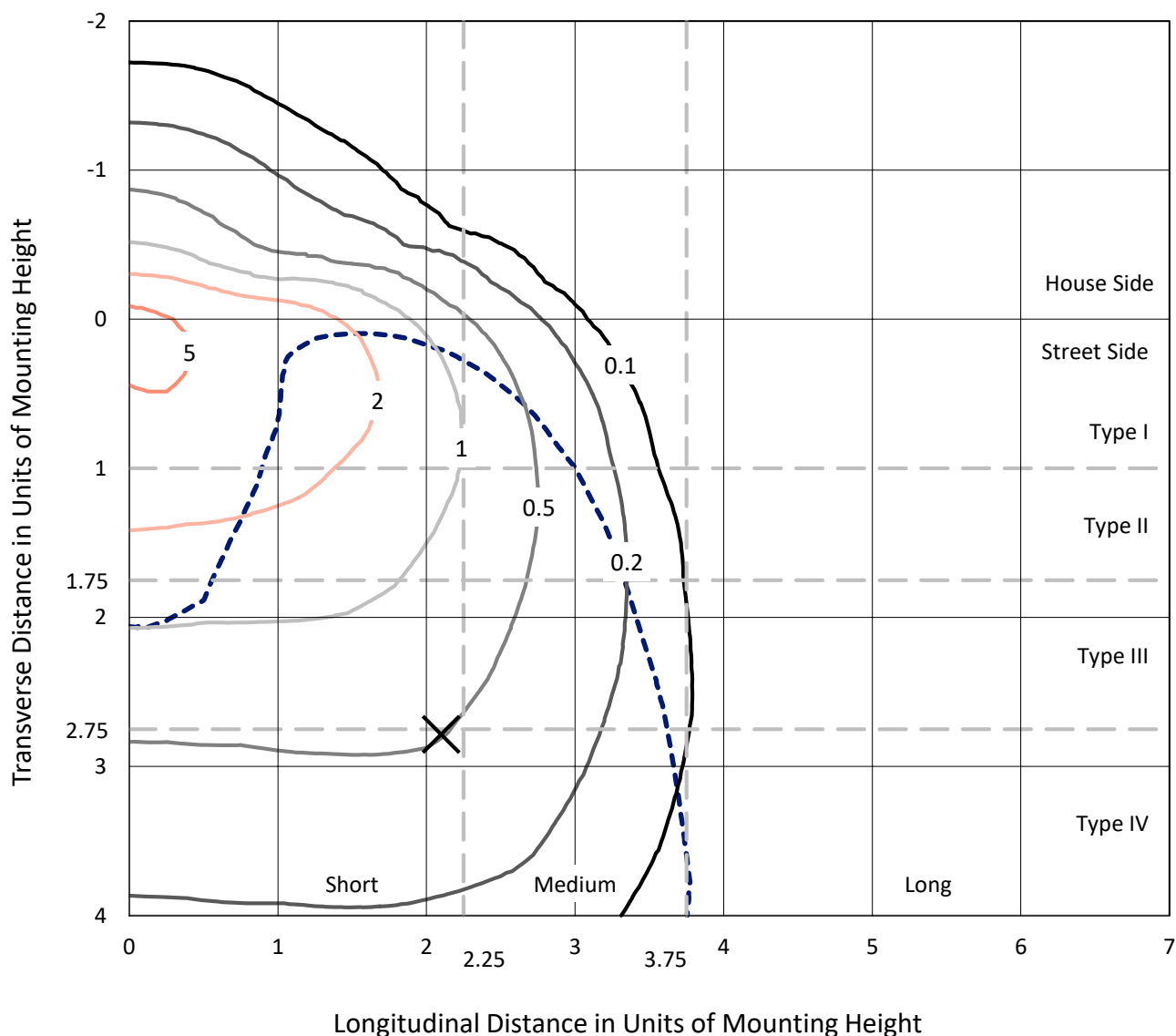
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

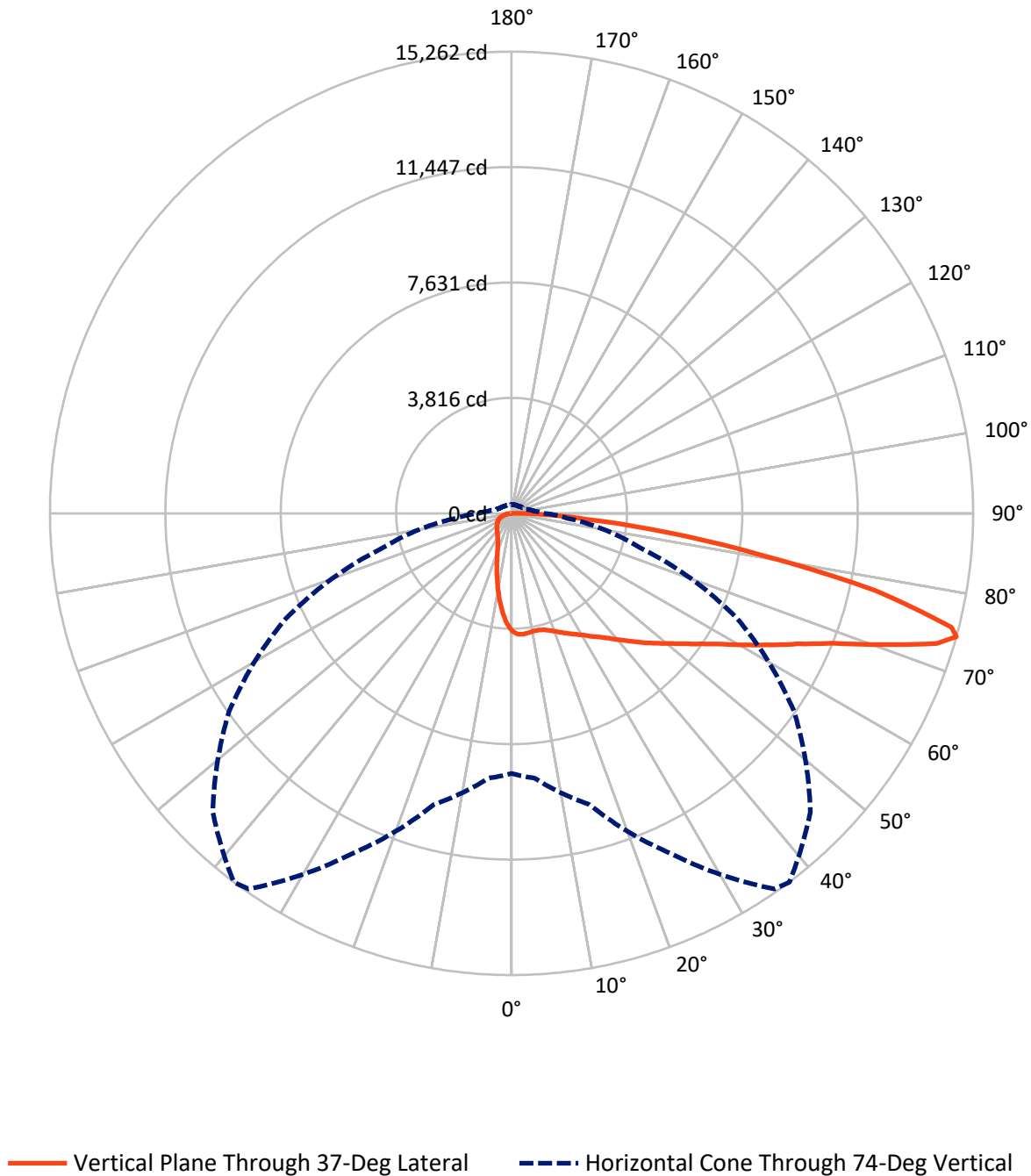
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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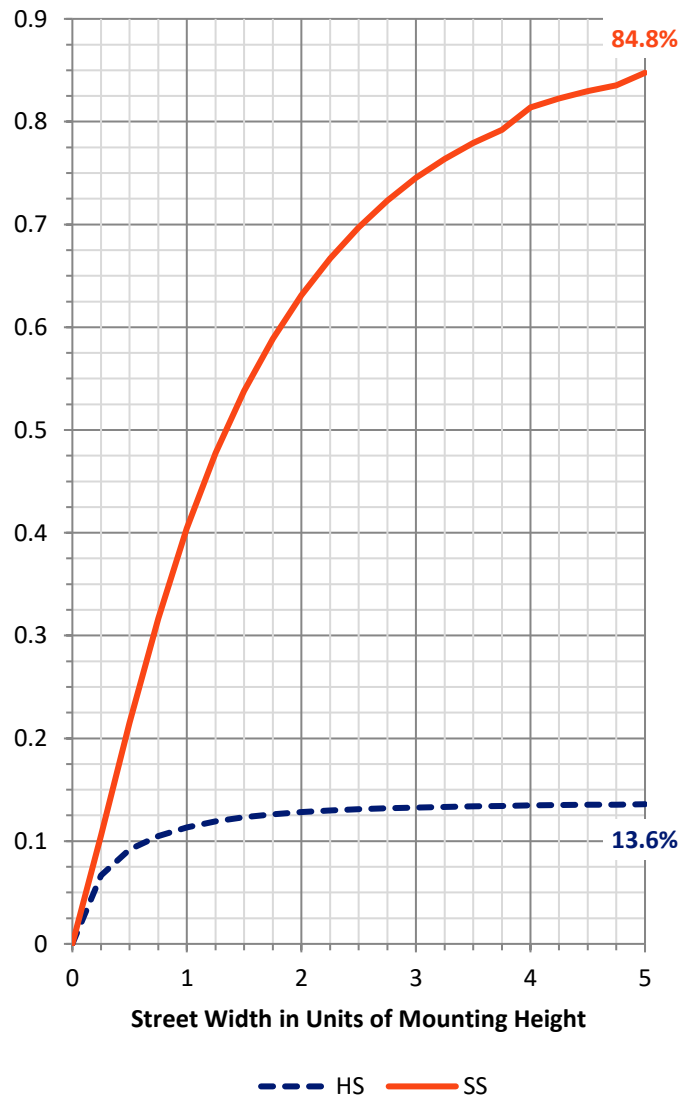
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3047.6	0.0	3047.6
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	19101.4	0.0	19101.4
	% Fixture	86.2	0.0	86.2
Total	Lumens	22149.0	0.0	22149.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.7	1.6
10°-20°	880.9	4.0
20°-30°	1357.3	6.1
30°-40°	1973.7	8.9
40°-50°	2905.0	13.1
50°-60°	4079.5	18.4
60°-70°	5163.4	23.3
70°-80°	4546.6	20.5
80°-90°	898.9	4.1
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°	22149.0	100.0
0°-180°	22149.0	100.0

Coefficient of Utilization



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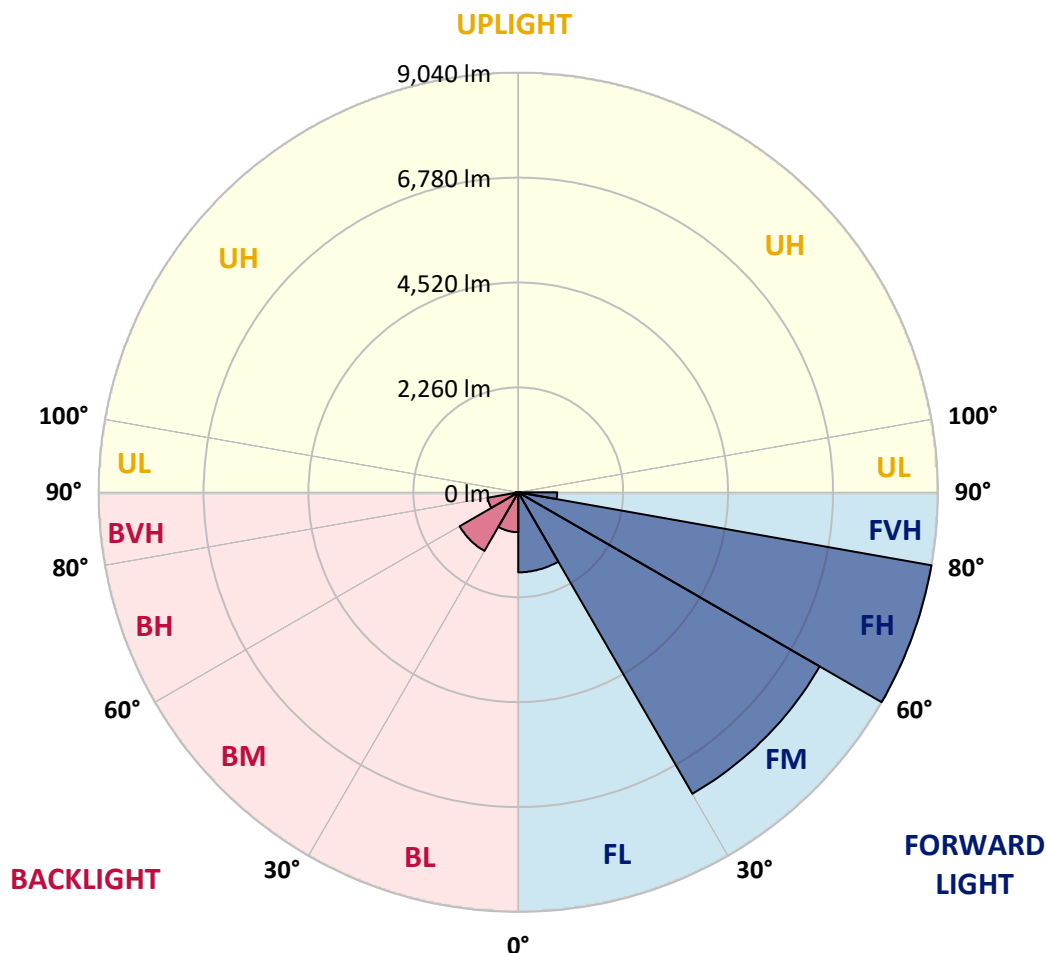
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1723.5	7.8			
FM	(30°-60°)	7499.8	33.9			
FH	(60°-80°)	9040.1	40.8			G4/12000
FVH	(80°-90°)	838.1	3.8			G5
BL	(0°-30°)	858.4	3.9	B2/1000		
BM	(30°-60°)	1458.4	6.6	B2/2500		
BH	(60°-80°)	669.9	3.0	B2/1000		G2/1000
BVH	(80°-90°)	60.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3902.6	3902.6	3902.6	3902.6	3902.6	3902.6	3902.6	3902.6	3902.6	3902.6	3902.6
2.5°	4036.0	4036.8	4036.0	4029.7	4014.9	4002.4	3992.3	3977.5	3944.7	3919.7	3882.3
5°	4074.2	4069.5	4066.4	4054.7	4031.3	4017.3	3997.8	3969.7	3915.8	3865.9	3805.0
7.5°	4056.3	4050.8	4043.8	4029.7	4003.2	3991.5	3964.2	3927.5	3862.8	3797.2	3709.9
10°	4000.9	3999.3	3996.2	3993.1	3970.4	3961.1	3936.1	3897.1	3833.1	3753.5	3651.3
12.5°	3939.2	3943.1	3955.6	3972.0	3961.9	3957.2	3941.6	3915.1	3849.5	3763.7	3640.4
15°	3900.2	3911.2	3944.7	3987.6	3996.2	3994.6	3990.7	3973.6	3904.1	3808.9	3665.4
17.5°	3887.0	3904.9	3968.9	4039.9	4064.8	4070.3	4071.9	4042.2	3965.0	3864.3	3691.1
20°	3911.2	3933.8	4027.4	4124.9	4164.7	4167.8	4160.8	4109.3	4022.7	3911.9	3705.2
22.5°	3984.5	4004.8	4121.8	4231.8	4277.1	4281.7	4260.7	4182.7	4083.6	3968.1	3724.7
25°	4125.7	4150.7	4267.7	4377.7	4401.1	4401.9	4371.5	4274.7	4163.2	4046.9	3766.8
27.5°	4309.8	4334.8	4440.1	4547.8	4535.3	4528.3	4486.9	4390.2	4266.9	4155.4	3841.7
30°	4515.0	4542.3	4642.2	4718.7	4689.0	4675.0	4641.4	4516.6	4411.3	4303.6	3956.4
32.5°	4727.2	4752.2	4839.6	4891.9	4854.4	4848.2	4797.5	4683.5	4599.3	4529.8	4142.1
35°	4944.9	4962.9	5048.7	5078.3	5028.4	5026.8	5012.8	4908.2	4855.2	4888.0	4412.0
37.5°	5167.3	5172.0	5245.3	5246.9	5232.0	5238.3	5253.1	5187.6	5202.4	5304.6	4763.1
40°	5365.4	5377.9	5431.0	5447.4	5473.1	5495.0	5569.1	5526.2	5640.9	5821.9	5200.0
42.5°	5512.1	5536.3	5621.4	5663.5	5747.0	5781.3	5885.8	5925.6	6156.6	6428.1	5719.7
45°	5636.2	5673.6	5810.2	5896.8	6038.0	6098.1	6247.9	6381.3	6739.4	7085.8	6266.6
47.5°	5770.4	5818.0	5988.8	6154.2	6346.2	6414.0	6686.3	6886.1	7361.2	7747.4	6782.3
50°	5967.8	6004.4	6171.4	6431.2	6670.7	6758.1	7134.9	7421.3	7993.2	8377.8	7229.3
52.5°	6243.2	6229.1	6370.3	6734.7	7056.1	7163.8	7614.0	7990.8	8633.7	8948.1	7607.0
55°	6520.1	6496.7	6595.8	7052.2	7505.5	7618.7	8141.4	8562.7	9243.0	9461.5	7896.4
57.5°	6828.3	6783.9	6867.3	7410.4	8017.4	8152.3	8732.0	9170.5	9842.2	9876.6	8080.5
60°	7145.9	7085.8	7179.4	7854.3	8667.3	8826.4	9423.3	9763.4	10407.1	10208.9	8139.8
62.5°	7423.6	7381.5	7525.8	8349.7	9399.9	9574.6	10102.0	10393.8	10964.2	10347.0	7926.1
65°	7666.3	7673.3	7922.9	8906.8	10216.7	10403.2	10880.7	11170.9	11402.6	10265.1	7426.0
67.5°	7955.7	7995.5	8421.5	9640.2	11245.0	11449.5	12013.5	12018.2	11647.6	9784.5	6441.3
70°	8377.8	8459.7	9107.3	10657.6	12707.1	12988.0	13423.4	12516.0	11303.6	8481.6	5068.2
72.5°	8752.3	8905.2	9836.8	11821.6	14489.1	14702.1	14248.0	12228.9	9865.6	6356.3	3157.5
74°	8600.2	8789.8	9969.4	12395.1	15160.1	15262.3	13969.5	11390.9	8225.7	4401.9	1835.0
75°	8272.5	8478.4	9775.9	12389.6	15075.1	15018.1	13297.0	10433.6	6774.5	3002.2	1221.0
77.5°	6676.2	6893.9	8237.4	10618.5	12360.7	12306.9	10214.4	6999.2	2967.1	984.6	620.3
80°	3881.5	4047.7	5113.4	6743.3	8334.9	8432.4	6717.5	3463.3	1167.2	553.2	420.5
82.5°	1724.2	1838.9	2470.1	3442.2	5030.0	5155.6	3517.9	1814.7	720.9	336.3	252.8
85°	1131.3	1216.3	1499.5	1639.2	2395.2	2481.0	1721.9	1412.9	475.9	184.9	185.7
87.5°	813.8	895.7	1114.1	972.9	1099.3	1040.8	937.0	1307.6	191.1	105.3	62.4
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°	3902.6	3902.6	3902.6	3902.6	3902.6	3902.6	3902.6	3902.6	3902.6	3902.6	3902.6
2.5°	3865.9	3853.4	3825.3	3772.3	3742.6	3717.7	3676.3	3652.1	3641.2	3640.4	3645.1
5°	3769.9	3741.1	3668.5	3579.6	3508.6	3443.8	3363.4	3315.1	3280.7	3260.5	3265.9
7.5°	3658.4	3613.1	3499.2	3357.2	3243.3	3117.7	2993.6	2919.5	2861.8	2818.9	2826.7
10°	3581.9	3519.5	3353.3	3148.9	2959.3	2776.7	2605.9	2503.7	2422.5	2360.1	2364.8
12.5°	3556.2	3471.9	3241.7	2968.7	2702.6	2453.0	2229.8	2073.0	1989.5	1918.5	1924.0
15°	3560.1	3446.9	3148.1	2806.4	2471.7	2157.3	1886.5	1703.2	1590.1	1540.9	1541.7
17.5°	3563.2	3418.1	3049.8	2632.4	2243.1	1881.1	1586.9	1401.2	1294.4	1249.1	1249.9
20°	3553.0	3371.3	2928.1	2432.7	2004.3	1627.5	1342.7	1185.1	1104.0	1068.9	1068.9
22.5°	3539.8	3315.9	2790.8	2232.2	1768.7	1407.5	1168.0	1047.8	1001.0	977.6	976.8
25°	3546.0	3274.5	2650.3	2026.2	1551.8	1231.9	1051.7	972.1	940.9	926.1	925.3
27.5°	3579.6	3255.0	2520.8	1821.0	1362.2	1100.1	973.7	917.5	897.2	887.9	887.9
30°	3640.4	3255.0	2385.9	1646.2	1204.6	1002.6	913.6	875.4	861.3	855.1	855.1
32.5°	3746.5	3272.9	2255.6	1473.0	1079.0	926.1	863.7	837.9	827.0	823.9	823.9
35°	3929.1	3333.8	2128.4	1309.2	977.6	863.7	816.1	801.3	793.5	792.7	795.0
37.5°	4185.8	3457.9	2009.0	1188.2	905.8	813.0	776.3	764.6	759.9	763.8	766.9
40°	4508.8	3626.4	1900.6	1079.0	851.2	772.4	739.6	731.8	729.5	734.9	739.6
42.5°	4898.9	3854.2	1811.6	1000.2	809.1	738.1	708.4	699.1	696.7	703.0	709.2
45°	5321.0	4099.2	1749.2	941.7	776.3	712.3	681.1	671.0	666.3	669.4	676.4
47.5°	5704.8	4330.9	1724.2	900.4	745.1	690.5	656.9	644.4	636.6	635.1	640.5
50°	6028.6	4503.3	1735.9	875.4	720.1	666.3	633.5	619.5	607.8	600.8	604.7
52.5°	6264.2	4611.8	1746.9	864.5	700.6	639.8	607.8	594.5	578.9	567.2	567.2
55°	6435.1	4636.7	1722.7	855.9	685.8	610.9	578.9	566.4	550.8	537.6	536.0
57.5°	6502.2	4566.5	1633.0	843.4	675.7	583.6	548.5	539.1	525.9	510.3	509.5
60°	6411.7	4349.6	1459.8	816.9	662.4	561.0	518.1	511.8	505.6	490.7	490.0
62.5°	6048.1	3873.7	1235.8	763.0	635.9	536.8	490.0	493.1	493.9	483.7	482.2
65°	5388.9	3219.9	1017.4	692.8	596.1	507.9	461.1	475.9	484.5	482.9	480.6
67.5°	4430.8	2506.0	862.1	618.7	543.8	468.1	429.9	447.1	454.1	459.5	458.0
70°	3288.5	1767.2	713.1	540.7	480.6	421.3	389.3	397.9	393.2	399.5	401.8
72.5°	1833.5	1060.3	581.3	462.7	415.1	366.7	344.1	342.5	332.4	332.4	332.4
74°	1100.1	777.9	511.0	414.3	375.3	330.8	311.3	304.3	294.9	295.7	294.9
75°	884.7	668.6	468.9	382.3	347.2	309.7	290.2	280.9	273.9	273.9	273.1
77.5°	558.6	507.9	377.6	304.3	277.8	255.1	241.9	229.4	229.4	228.6	227.8
80°	422.1	404.1	294.1	230.2	213.0	195.8	187.2	181.8	181.8	184.1	183.3
82.5°	289.5	304.3	206.8	160.7	152.1	139.7	138.1	138.9	136.5	133.4	132.6
85°	211.4	228.6	139.7	101.4	92.8	85.0	91.3	94.4	90.5	83.5	80.4
87.5°	81.1	149.8	74.9	42.1	39.0	33.5	39.0	40.6	43.7	34.3	35.1
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)