

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: P319278

Luminaire Tested: **GAN-SA4B-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18886 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

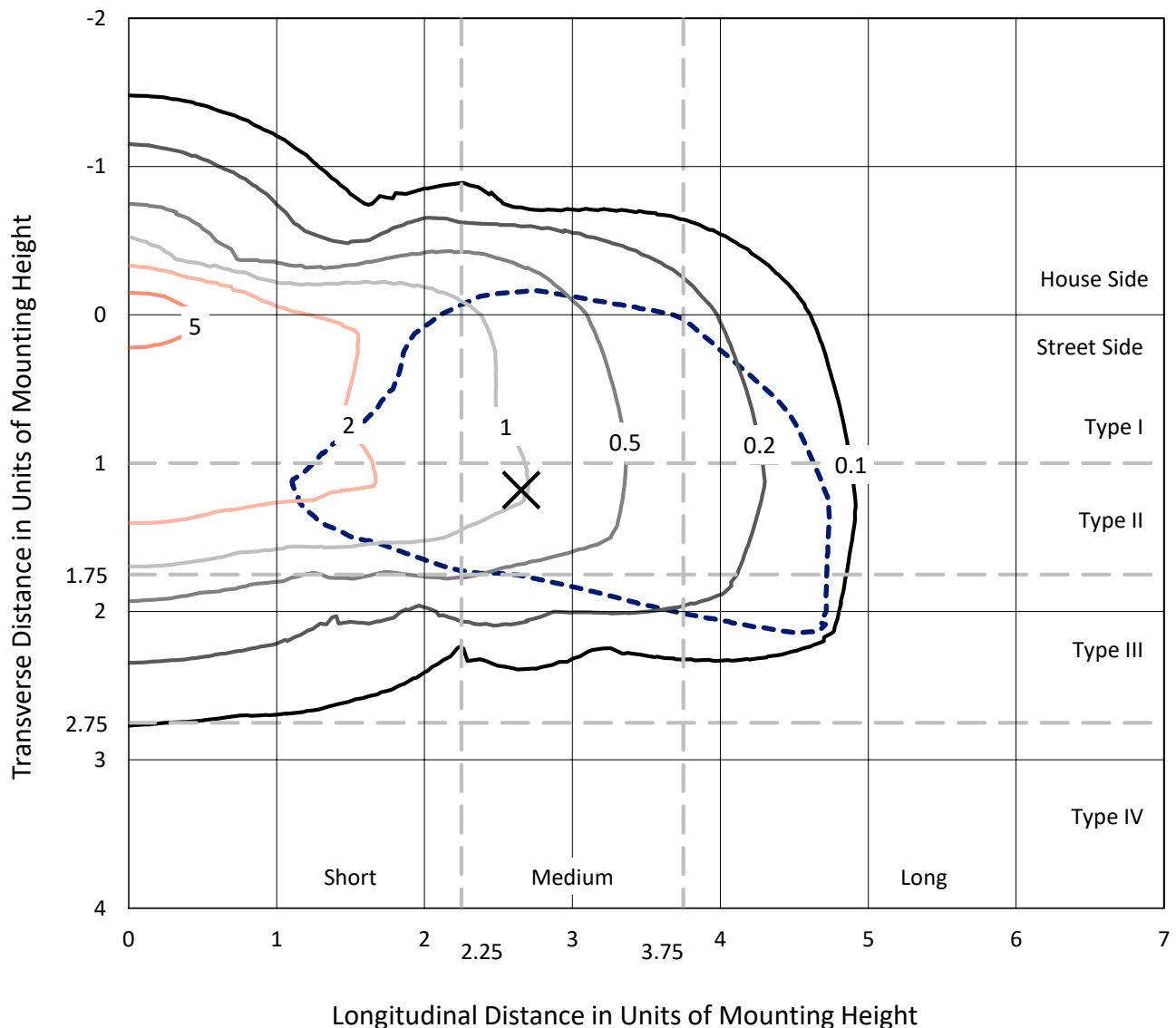
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

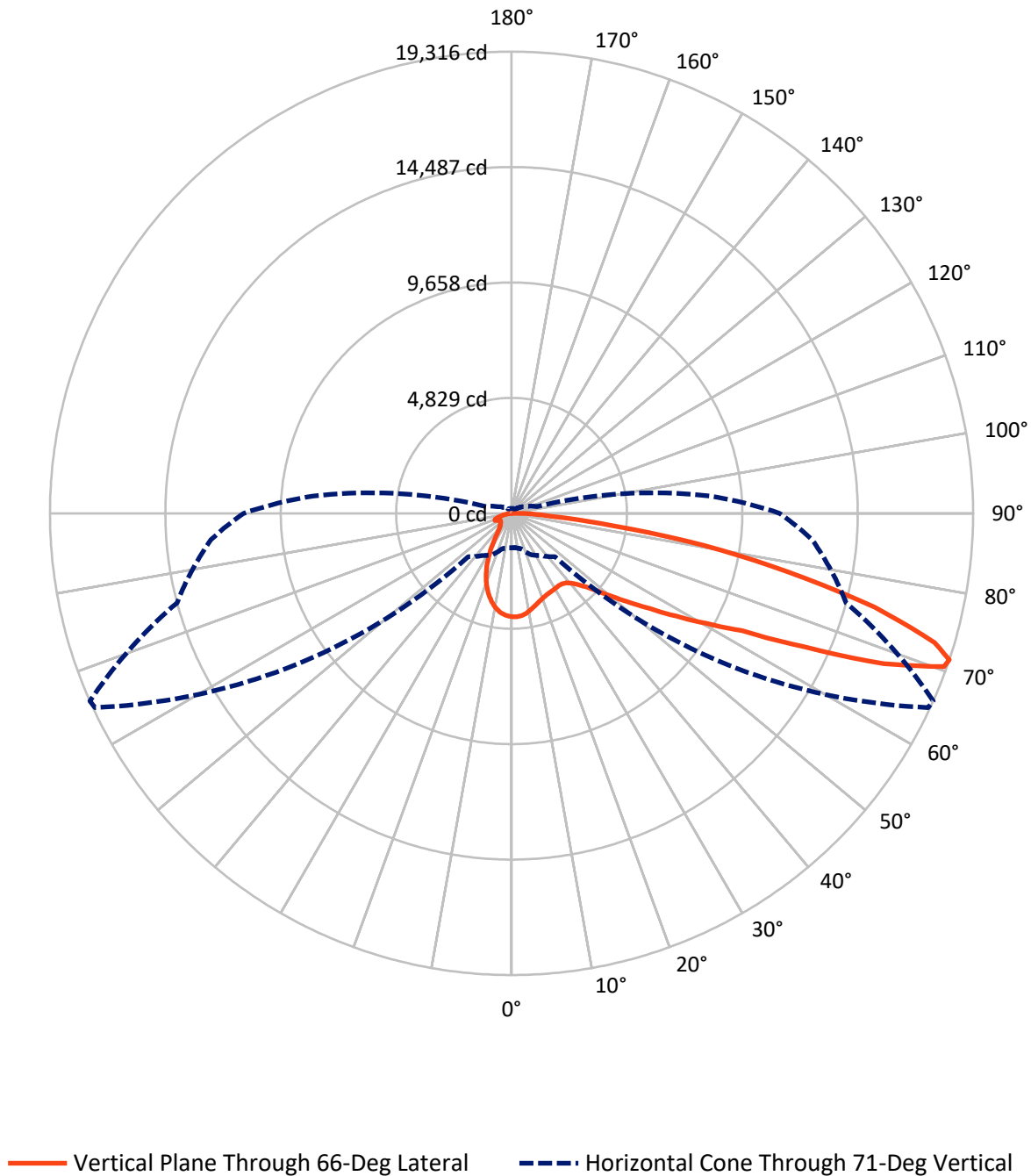
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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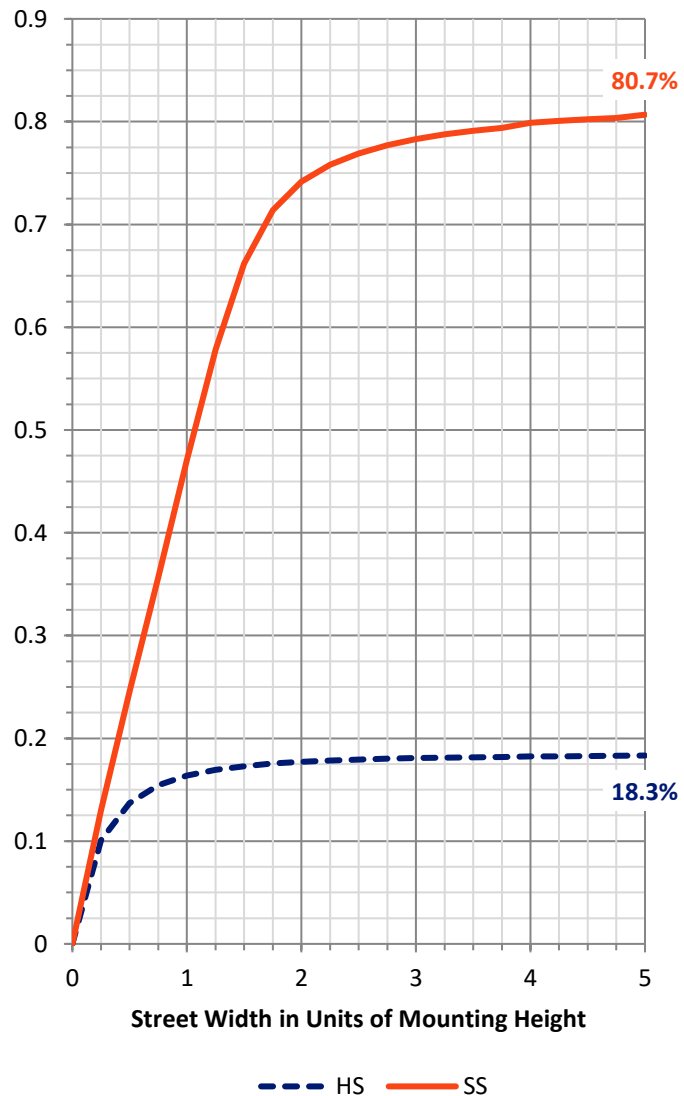
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3500.1	0.0	3500.1
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	15385.9	0.0	15385.9
	% Fixture	81.5	0.0	81.5
Total	Lumens	18886.0	0.0	18886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.8	2.0
10°-20°	913.4	4.8
20°-30°	1226.9	6.5
30°-40°	1614.0	8.5
40°-50°	2347.9	12.4
50°-60°	3667.7	19.4
60°-70°	4594.4	24.3
70°-80°	3504.5	18.6
80°-90°	636.4	3.4
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°	18886.0	100.0
0°-180°	18886.0	100.0

Coefficient of Utilization



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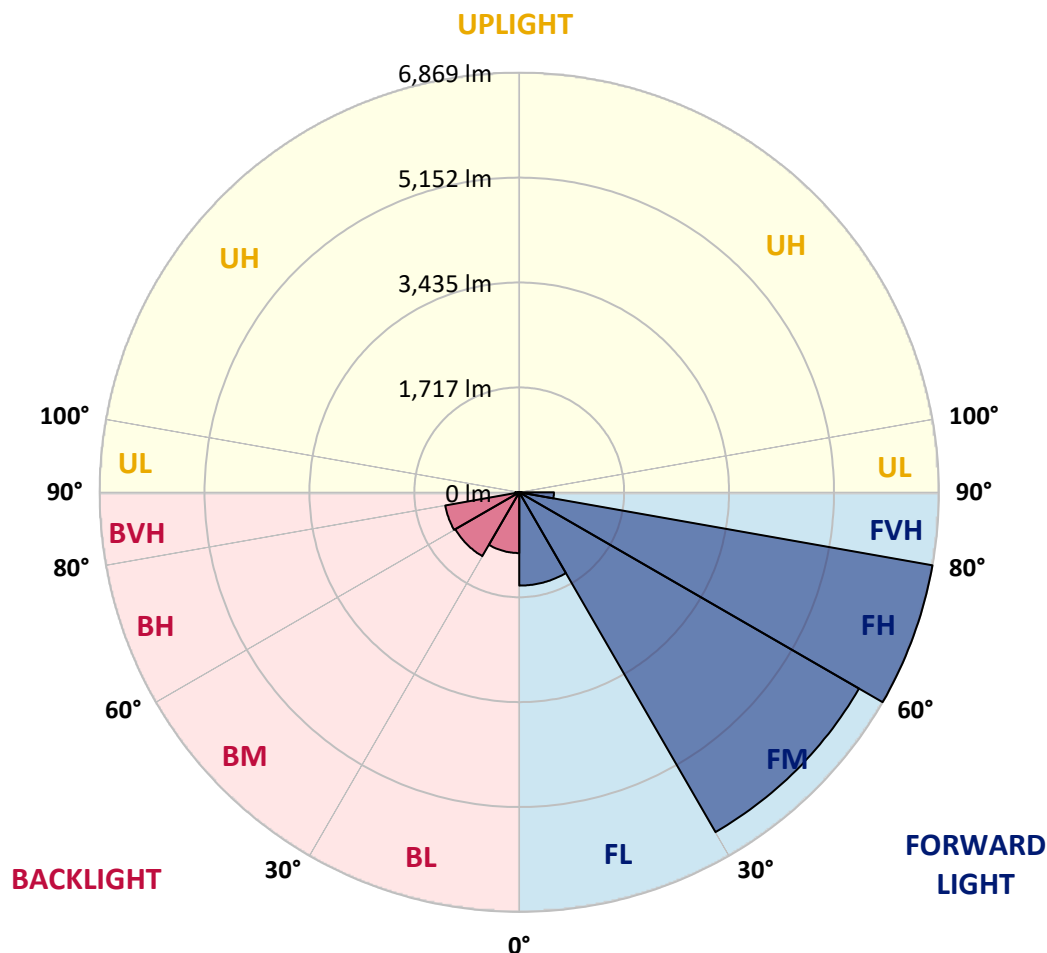
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1527.2	8.1			
FM	(30°-60°)	6422.2	34.0			
FH	(60°-80°)	6869.0	36.4			G3/7500
FVH	(80°-90°)	567.5	3.0			G4/750
BL	(0°-30°)	993.9	5.3	B2/1000		
BM	(30°-60°)	1207.4	6.4	B2/2500		
BH	(60°-80°)	1229.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	68.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4326.4	4326.4	4326.4	4326.4	4326.4	4326.4	4326.4	4326.4	4326.4	4326.4	4326.4
2.5°	4246.2	4239.7	4259.3	4279.5	4287.3	4300.3	4319.9	4331.0	4330.3	4332.3	4325.8
5°	3964.5	3956.0	3995.2	4027.1	4088.4	4157.5	4241.6	4301.6	4302.9	4336.8	4346.0
7.5°	3697.8	3692.0	3737.0	3788.5	3859.5	3965.2	4101.5	4230.6	4238.4	4330.3	4362.3
10°	3484.0	3482.7	3526.3	3582.4	3665.2	3783.3	3939.7	4128.8	4140.6	4299.0	4364.9
12.5°	3317.0	3319.6	3357.5	3421.4	3508.7	3632.0	3801.5	4014.7	4033.6	4249.5	4349.9
15°	3193.8	3204.2	3234.9	3299.4	3385.5	3510.7	3684.8	3909.1	3937.8	4194.0	4341.4
17.5°	3123.4	3135.1	3156.6	3210.1	3290.9	3411.6	3576.5	3822.4	3848.5	4151.7	4342.1
20°	3102.5	3112.3	3124.7	3157.3	3225.7	3335.3	3491.1	3744.1	3772.2	4117.8	4348.6
22.5°	3143.6	3150.8	3152.1	3149.4	3191.2	3280.5	3429.2	3686.7	3716.7	4095.6	4353.2
25°	3231.6	3241.4	3234.2	3210.1	3196.4	3251.2	3397.2	3648.9	3678.9	4079.3	4344.0
27.5°	3364.0	3365.3	3359.4	3328.1	3263.6	3254.4	3387.5	3626.8	3655.4	4060.4	4325.1
30°	3543.9	3552.4	3542.0	3499.6	3394.0	3306.6	3399.2	3605.2	3631.3	4036.3	4294.5
32.5°	3754.6	3775.4	3774.8	3730.4	3579.2	3423.3	3447.4	3592.2	3612.4	4010.8	4257.3
35°	3973.0	4001.7	4055.2	4036.3	3849.1	3607.8	3540.0	3613.1	3626.8	4007.6	4231.2
37.5°	4199.9	4228.6	4338.8	4389.7	4170.6	3871.9	3686.1	3686.7	3693.3	4047.3	4229.3
40°	4437.3	4467.9	4633.5	4765.9	4587.2	4206.4	3921.5	3840.6	3833.5	4145.1	4267.7
42.5°	4769.8	4797.2	4996.1	5165.0	5049.6	4634.8	4246.9	4078.0	4063.0	4336.8	4391.0
45°	5190.4	5213.9	5425.1	5605.8	5546.4	5123.9	4655.7	4404.7	4402.1	4656.4	4640.7
47.5°	5690.5	5708.8	5898.5	6073.3	6094.8	5686.6	5169.5	4908.7	4866.3	5094.5	5027.4
50°	6211.5	6231.7	6360.8	6548.6	6708.4	6439.7	5830.7	5526.2	5469.5	5672.9	5575.1
52.5°	6556.5	6583.2	6695.4	6933.4	7398.3	7265.3	6612.5	6274.8	6188.7	6373.9	6298.9
55°	6402.6	6462.6	6634.1	7015.5	7949.9	8526.3	7576.9	7147.9	7050.7	7204.6	7160.3
57.5°	5702.9	5785.1	6019.2	6608.0	8027.5	9637.4	9034.9	8176.2	8107.7	8063.4	8083.6
60°	4424.2	4503.1	4793.3	5560.8	7487.0	10448.6	11229.1	9443.8	9344.7	8925.4	8943.7
62.5°	3131.2	3091.4	3290.3	3851.7	6083.7	10543.8	13725.9	11139.1	10813.1	9835.7	9755.5
65°	2387.8	2378.7	2468.0	2646.7	3684.8	9404.7	15213.2	13988.6	13479.4	10906.4	10717.3
67.5°	1962.0	1945.7	2033.8	2293.9	2372.8	6067.4	15245.8	17294.6	16794.5	12239.2	11829.7
70°	1613.2	1594.9	1677.1	2012.9	2192.9	3077.1	12831.2	19230.5	19203.8	13926.7	12669.5
71°	1446.3	1433.2	1531.7	1904.7	2154.4	2564.6	11078.5	19235.8	19316.0	14497.9	12620.0
72.5°	1177.6	1182.2	1286.5	1695.4	2125.7	2264.6	8142.3	18339.2	18508.7	15042.4	12169.4
75°	782.5	786.4	923.3	1304.1	2061.2	2215.7	4475.1	15388.6	15700.3	14716.3	11104.6
77.5°	525.6	524.3	617.5	894.6	1795.8	2215.7	2623.9	11509.5	11851.8	11709.7	8560.9
80°	361.9	359.3	425.1	617.5	1359.5	2242.4	2028.6	8066.0	8169.7	6323.7	3479.4
82.5°	221.7	223.7	277.8	436.2	925.3	2018.1	1915.1	4398.1	4285.3	1773.6	869.2
85°	127.2	126.5	177.4	295.4	594.0	1703.2	1867.5	1892.9	1736.4	534.0	314.3
87.5°	45.6	48.9	95.2	163.7	340.4	1186.1	1584.5	984.6	887.5	241.3	142.1
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°	4326.4	4326.4	4326.4	4326.4	4326.4	4326.4	4326.4	4326.4	4326.4	4326.4	4326.4
2.5°	4321.2	4325.1	4320.5	4294.5	4272.3	4236.4	4216.2	4188.2	4179.7	4175.8	4186.2
5°	4337.5	4338.8	4300.3	4231.9	4154.9	4064.3	3999.1	3918.9	3881.1	3864.8	3875.2
7.5°	4352.5	4346.6	4262.5	4131.5	3989.3	3831.5	3691.3	3562.9	3487.9	3457.2	3459.8
10°	4354.5	4329.7	4194.7	3991.9	3771.5	3540.0	3324.9	3126.6	3001.4	2919.9	2944.7
12.5°	4334.2	4292.5	4094.9	3811.3	3505.5	3189.9	2899.1	2601.7	2423.1	2340.2	2342.9
15°	4318.6	4243.0	3972.3	3598.7	3187.9	2770.0	2372.8	2023.3	1832.9	1748.2	1708.4
17.5°	4305.6	4189.5	3830.2	3359.4	2813.0	2282.9	1805.6	1493.9	1389.5	1364.8	1354.3
20°	4287.3	4132.8	3671.7	3082.3	2385.9	1737.7	1318.5	1164.6	1165.2	1193.9	1197.8
22.5°	4261.9	4068.2	3502.9	2771.3	1927.5	1265.6	1033.5	989.2	1034.2	1088.9	1098.7
25°	4224.0	3991.9	3315.1	2427.6	1469.7	972.9	882.9	880.9	935.7	993.1	1001.6
27.5°	4170.6	3892.1	3106.4	2058.6	1083.1	826.8	790.9	804.6	845.1	886.8	890.1
30°	4098.8	3776.1	2876.2	1669.3	849.0	736.2	732.3	744.7	769.4	798.8	801.4
32.5°	4019.9	3658.1	2630.4	1292.4	727.0	687.3	691.2	697.1	708.8	720.5	723.1
35°	3948.2	3537.4	2378.7	982.0	669.0	655.3	652.7	651.4	652.7	648.8	649.5
37.5°	3901.9	3437.7	2116.6	781.8	635.8	627.3	619.5	609.7	598.6	592.1	593.4
40°	3885.0	3363.3	1851.2	675.5	608.4	602.5	587.5	566.6	553.6	549.7	549.7
42.5°	3930.6	3324.9	1594.9	622.1	585.5	575.8	551.0	526.9	517.1	516.4	515.8
45°	4070.2	3340.5	1351.1	592.7	564.7	545.8	513.2	493.0	486.4	487.7	487.1
47.5°	4320.5	3439.0	1142.4	573.2	543.8	519.0	482.5	466.2	458.4	458.4	459.1
50°	4746.3	3669.1	976.1	556.9	526.2	494.3	460.4	440.1	429.7	429.1	429.1
52.5°	5366.5	4081.2	872.5	543.2	506.7	472.1	438.2	412.8	400.4	397.8	396.5
55°	6143.7	4672.0	843.8	534.0	480.6	448.0	411.4	386.0	372.3	366.5	365.8
57.5°	7012.9	5390.6	900.5	523.0	453.8	419.3	382.1	358.0	343.6	336.5	335.8
60°	7892.5	6175.0	1132.0	507.3	431.7	388.0	352.1	329.9	315.6	307.8	306.5
62.5°	8773.5	7001.8	1604.7	506.0	416.0	358.0	321.5	302.6	288.9	280.4	278.4
65°	9767.2	7906.9	2142.0	540.6	410.8	330.6	290.2	275.2	263.4	255.6	255.0
67.5°	10908.3	8928.7	2090.5	611.6	428.4	305.8	260.8	249.1	240.6	234.1	233.4
70°	11443.7	8768.9	1299.6	661.8	453.2	281.7	232.8	224.3	217.8	213.2	211.3
71°	11219.3	8326.2	1089.6	656.0	450.6	271.3	221.7	215.2	208.7	204.7	202.8
72.5°	10607.7	7593.2	909.0	610.3	421.2	252.3	207.4	200.8	195.0	190.4	189.1
75°	9518.8	6781.4	727.7	487.7	335.8	213.2	181.9	174.8	170.2	167.6	165.0
77.5°	6997.3	4839.6	562.7	385.4	247.1	174.1	155.2	150.0	145.4	141.5	139.5
80°	2680.6	1874.7	378.8	287.6	181.3	137.6	125.2	122.6	118.0	115.4	115.4
82.5°	721.8	560.1	202.1	174.1	121.3	100.4	95.9	94.5	90.6	85.4	86.1
85°	292.1	247.1	113.5	95.9	74.3	59.3	64.6	65.2	60.6	54.1	54.8
87.5°	128.5	105.0	63.2	42.4	32.6	22.8	29.3	29.3	26.7	22.2	20.2
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)