

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: P319287

Luminaire Tested: **GAN-SA3C-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319287
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-SA3C-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA 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: 17691 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

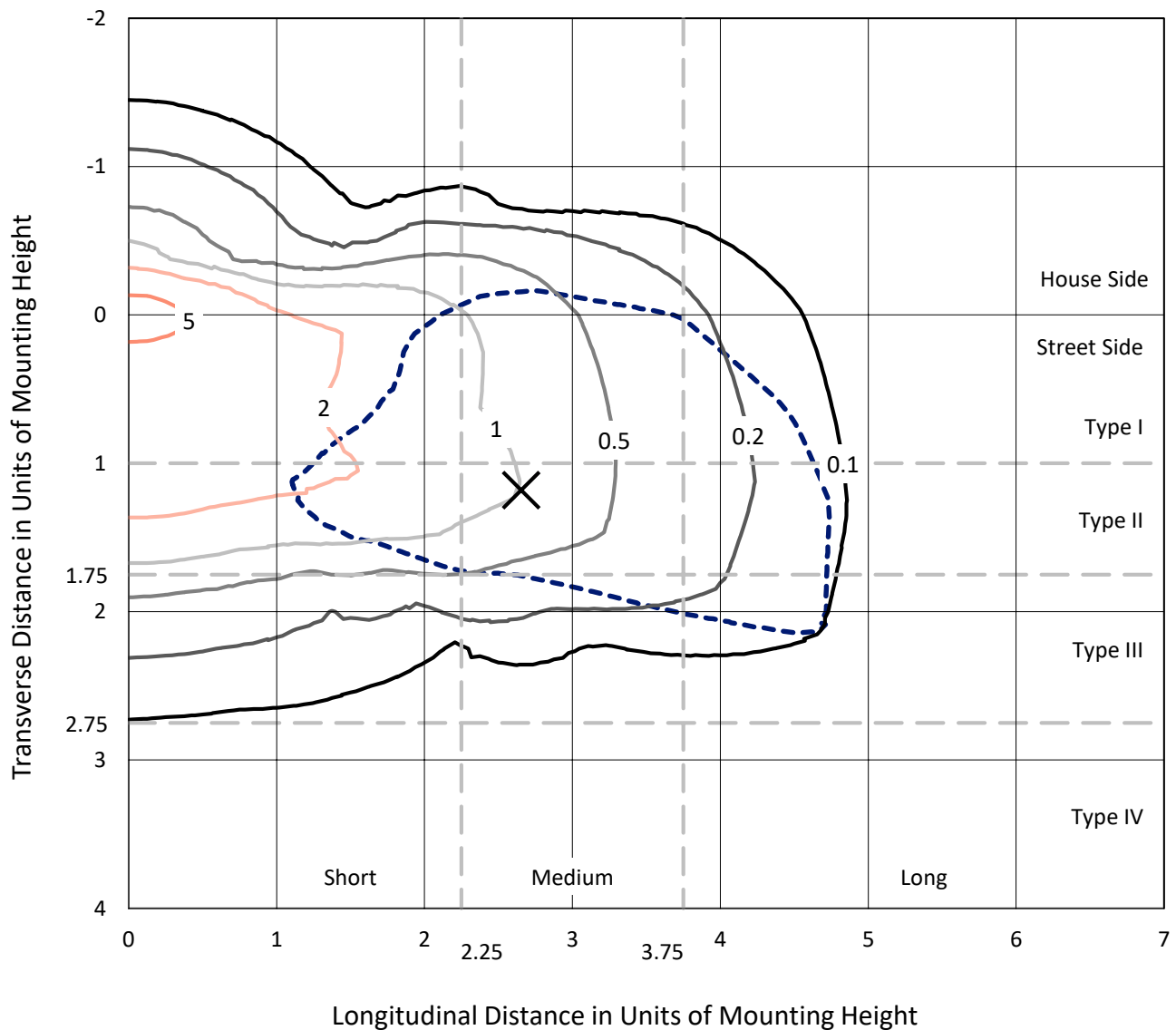
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

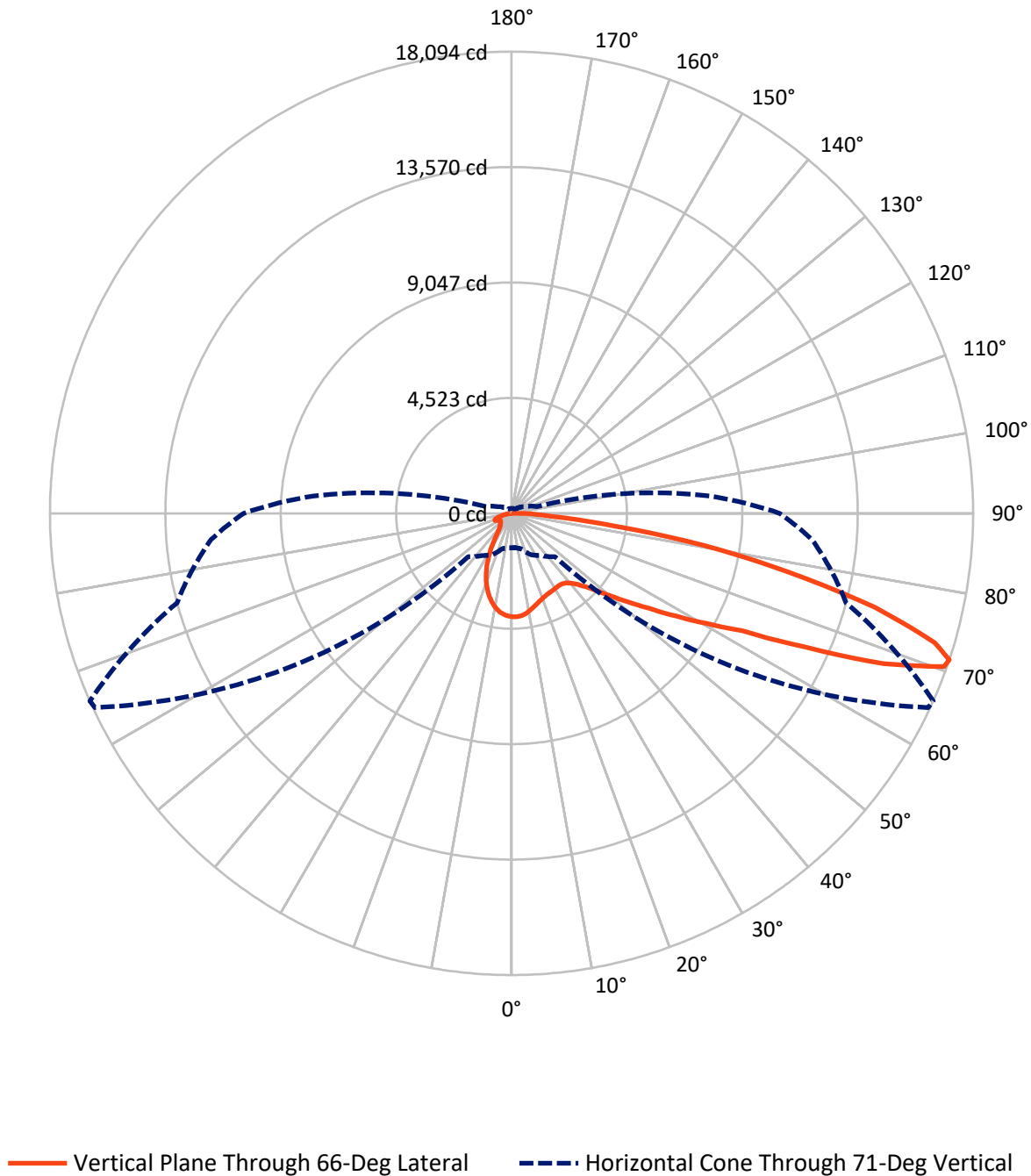
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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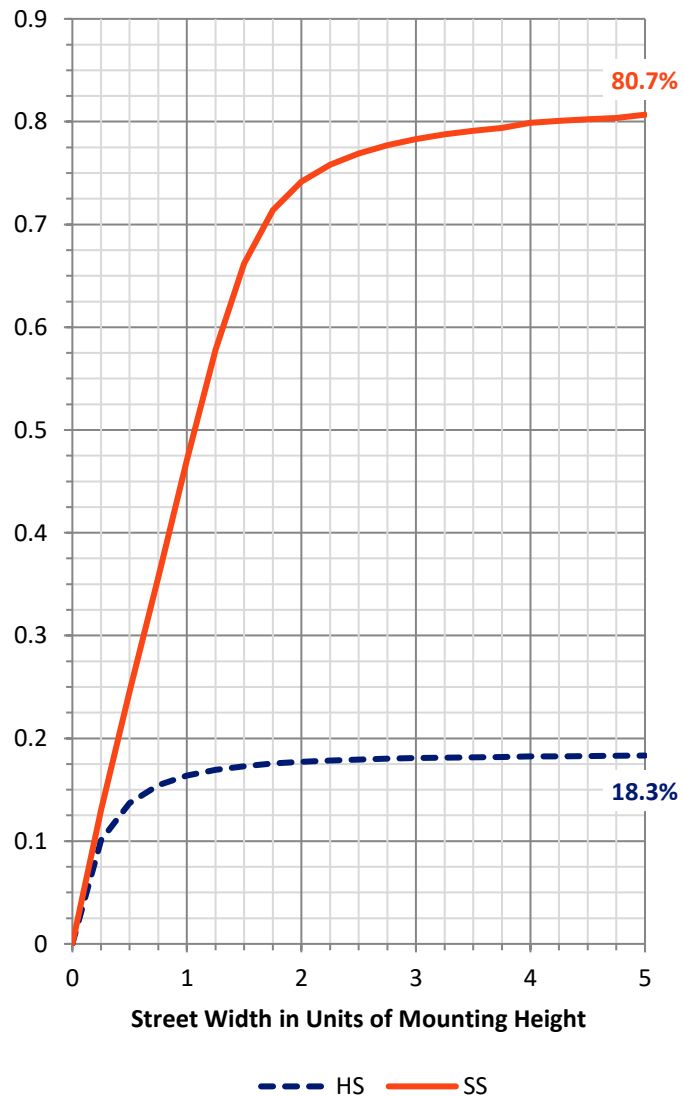
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3278.6	0.0	3278.6
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	14412.4	0.0	14412.4
	% Fixture	81.5	0.0	81.5
Total	Lumens	17691.0	0.0	17691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.7	2.0
10°-20°	855.6	4.8
20°-30°	1149.3	6.5
30°-40°	1511.9	8.5
40°-50°	2199.4	12.4
50°-60°	3435.6	19.4
60°-70°	4303.7	24.3
70°-80°	3282.8	18.6
80°-90°	596.1	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°	17691.0	100.0
0°-180°	17691.0	100.0

Coefficient of Utilization



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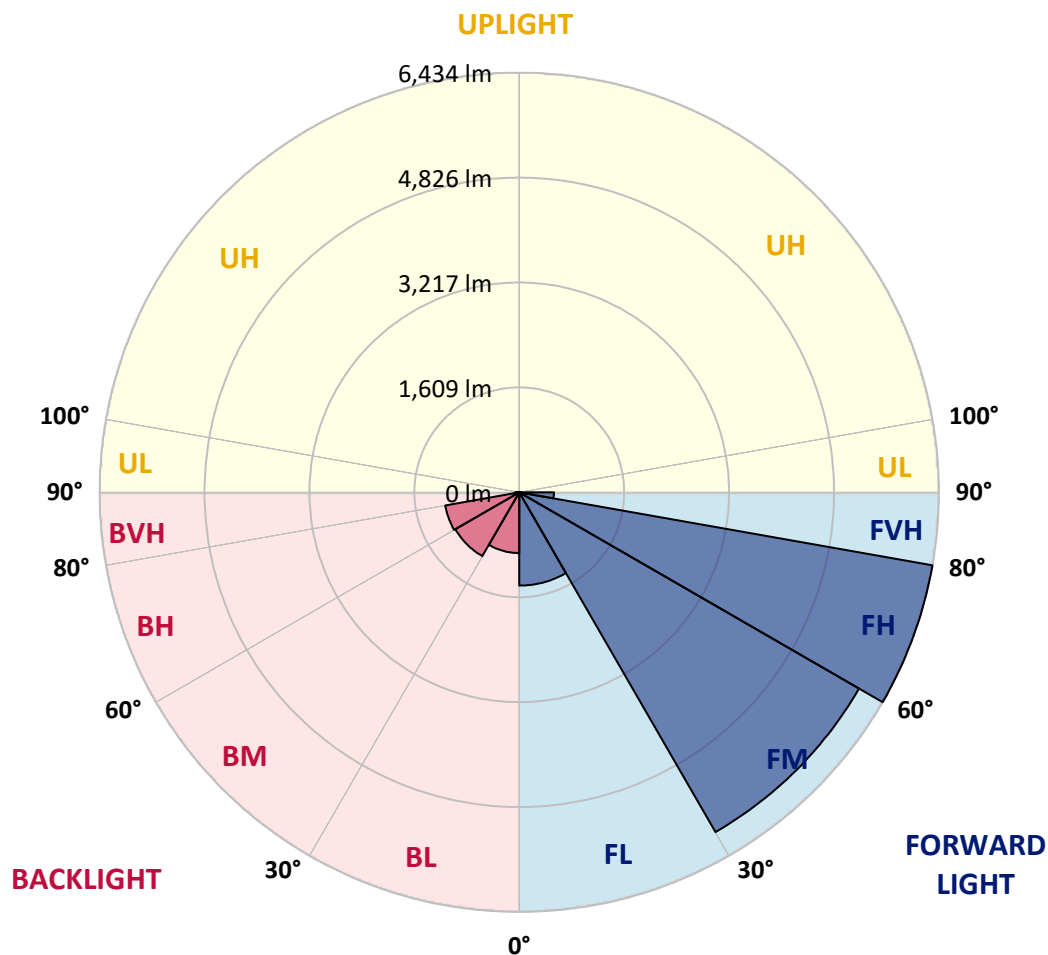
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1430.6	8.1			
FM	(30°-60°)	6015.8	34.0			
FH	(60°-80°)	6434.4	36.4			G3/7500
FVH	(80°-90°)	531.6	3.0			G4/750
BL	(0°-30°)	931.0	5.3	B2/1000		
BM	(30°-60°)	1131.0	6.4	B2/2500		
BH	(60°-80°)	1152.0	6.5	B3/2500		G3/2500
BVH	(80°-90°)	64.5	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°	4052.7	4052.7	4052.7	4052.7	4052.7	4052.7	4052.7	4052.7	4052.7	4052.7	4052.7
2.5°	3977.5	3971.4	3989.8	4008.7	4016.0	4028.2	4046.6	4056.9	4056.3	4058.2	4052.1
5°	3713.7	3705.7	3742.4	3772.3	3829.7	3894.5	3973.3	4029.5	4030.7	4062.4	4071.0
7.5°	3463.9	3458.4	3500.5	3548.8	3615.3	3714.3	3841.9	3962.9	3970.2	4056.3	4086.3
10°	3263.5	3262.3	3303.2	3355.7	3433.3	3543.9	3690.5	3867.6	3878.6	4027.0	4088.7
12.5°	3107.1	3109.6	3145.0	3204.9	3286.7	3402.2	3561.0	3760.7	3778.4	3980.6	4074.7
15°	2991.7	3001.5	3030.2	3090.7	3171.3	3288.6	3451.6	3661.8	3688.6	3928.7	4066.7
17.5°	2925.7	2936.7	2956.9	3007.0	3082.7	3195.7	3350.2	3580.5	3604.9	3889.0	4067.3
20°	2906.2	2915.4	2927.0	2957.5	3021.6	3124.2	3270.2	3507.2	3533.5	3857.2	4073.4
22.5°	2944.7	2951.4	2952.6	2950.2	2989.3	3072.9	3212.2	3453.5	3481.6	3836.4	4077.7
25°	3027.1	3036.3	3029.6	3007.0	2994.1	3045.5	3182.3	3418.0	3446.1	3821.2	4069.2
27.5°	3151.1	3152.3	3146.8	3117.5	3057.1	3048.5	3173.1	3397.3	3424.2	3803.5	4051.4
30°	3319.7	3327.6	3317.9	3278.2	3179.2	3097.4	3184.1	3377.1	3401.6	3780.9	4022.7
32.5°	3517.0	3536.5	3535.9	3494.4	3352.7	3206.7	3229.3	3364.9	3383.8	3757.0	3987.9
35°	3721.6	3748.5	3798.6	3780.9	3605.6	3379.6	3316.0	3384.4	3397.3	3754.0	3963.5
37.5°	3934.2	3961.0	4064.3	4111.9	3906.7	3626.9	3452.9	3453.5	3459.6	3791.2	3961.7
40°	4156.5	4185.2	4340.4	4464.3	4297.0	3940.3	3673.4	3597.6	3590.9	3882.9	3997.7
42.5°	4468.0	4493.7	4680.0	4838.2	4730.0	4341.6	3978.1	3820.0	3805.9	4062.4	4113.1
45°	4862.0	4884.0	5081.9	5251.1	5195.5	4799.7	4361.1	4126.0	4123.5	4361.7	4347.1
47.5°	5330.5	5347.6	5525.3	5689.0	5709.2	5326.8	4842.4	4598.1	4558.4	4772.2	4709.3
50°	5818.5	5837.4	5958.4	6134.3	6283.9	6032.3	5461.8	5176.5	5123.4	5314.0	5222.3
52.5°	6141.6	6166.6	6271.7	6494.6	6930.1	6805.5	6194.1	5877.7	5797.1	5970.6	5900.3
55°	5997.5	6053.7	6214.3	6571.6	7446.9	7986.8	7097.5	6695.6	6604.6	6748.7	6707.2
57.5°	5342.1	5419.0	5638.3	6189.9	7519.6	9027.6	8463.3	7658.8	7594.7	7553.2	7572.1
60°	4144.3	4218.2	4490.0	5208.9	7013.2	9787.5	10518.6	8846.2	8753.4	8360.6	8377.7
62.5°	2933.1	2895.8	3082.1	3608.0	5698.8	9876.7	12857.4	10434.3	10128.9	9213.3	9138.2
65°	2236.8	2228.2	2311.9	2479.2	3451.6	8809.6	14250.6	13103.5	12626.5	10216.3	10039.1
67.5°	1837.9	1822.6	1905.1	2148.8	2222.7	5683.5	14281.1	16200.3	15731.8	11464.7	11081.2
70°	1511.1	1494.0	1571.0	1885.5	2054.1	2882.4	12019.3	18013.7	17988.7	13045.5	11867.9
71°	1354.8	1342.5	1434.8	1784.2	2018.1	2402.3	10377.5	18018.6	18093.8	13580.6	11821.4
72.5°	1103.1	1107.4	1205.1	1588.1	1991.2	2121.3	7627.1	17178.8	17337.6	14090.6	11399.4
75°	733.0	736.6	864.9	1221.6	1930.7	2075.5	4191.9	14414.9	14706.9	13785.2	10401.9
77.5°	492.3	491.1	578.4	838.0	1682.1	2075.5	2457.9	10781.3	11101.9	10968.8	8019.2
80°	339.0	336.6	398.2	578.4	1273.5	2100.5	1900.2	7555.6	7652.7	5923.5	3259.2
82.5°	207.7	209.5	260.2	408.6	866.7	1890.4	1793.9	4119.9	4014.2	1661.4	814.2
85°	119.1	118.5	166.1	276.7	556.4	1595.4	1749.3	1773.2	1626.6	500.2	294.4
87.5°	42.8	45.8	89.2	153.3	318.8	1111.0	1484.2	922.3	831.3	226.0	133.2
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°	4052.7	4052.7	4052.7	4052.7	4052.7	4052.7	4052.7	4052.7	4052.7	4052.7	4052.7
2.5°	4047.8	4051.4	4047.2	4022.7	4002.0	3968.4	3949.4	3923.2	3915.2	3911.6	3921.3
5°	4063.0	4064.3	4028.2	3964.1	3892.0	3807.1	3746.0	3670.9	3635.5	3620.2	3630.0
7.5°	4077.1	4071.6	3992.8	3870.0	3736.9	3589.1	3457.7	3337.4	3267.2	3238.5	3240.9
10°	4078.9	4055.7	3929.3	3739.3	3532.9	3316.0	3114.5	2928.8	2811.5	2735.2	2758.4
12.5°	4060.0	4020.9	3835.8	3570.1	3283.7	2988.0	2715.6	2437.1	2269.7	2192.2	2194.6
15°	4045.3	3974.5	3721.0	3371.0	2986.2	2594.7	2222.7	1895.3	1717.0	1637.6	1600.3
17.5°	4033.1	3924.4	3587.8	3146.8	2635.0	2138.4	1691.3	1399.3	1301.6	1278.4	1268.6
20°	4016.0	3871.3	3439.4	2887.3	2234.9	1627.8	1235.0	1090.9	1091.5	1118.4	1122.0
22.5°	3992.2	3810.8	3281.2	2595.9	1805.5	1185.6	968.1	926.6	968.7	1020.0	1029.2
25°	3956.8	3739.3	3105.3	2274.0	1376.7	911.3	827.0	825.2	876.5	930.3	938.2
27.5°	3906.7	3645.9	2909.9	1928.3	1014.5	774.5	740.9	753.7	791.6	830.7	833.7
30°	3839.5	3537.1	2694.2	1563.7	795.3	689.6	685.9	697.5	720.7	748.2	750.7
32.5°	3765.6	3426.6	2464.0	1210.6	681.0	643.8	647.4	652.9	663.9	674.9	677.4
35°	3698.4	3313.6	2228.2	919.9	626.7	613.9	611.4	610.2	611.4	607.7	608.4
37.5°	3655.0	3220.1	1982.7	732.4	595.5	587.6	580.3	571.1	560.7	554.6	555.8
40°	3639.2	3150.5	1734.1	632.8	569.9	564.4	550.3	530.8	518.6	514.9	514.9
42.5°	3681.9	3114.5	1494.0	582.7	548.5	539.3	516.1	493.5	484.4	483.8	483.1
45°	3812.6	3129.1	1265.6	555.2	529.0	511.2	480.7	461.8	455.7	456.9	456.3
47.5°	4047.2	3221.4	1070.1	536.9	509.4	486.2	452.0	436.7	429.4	429.4	430.0
50°	4446.0	3437.0	914.4	521.6	492.9	463.0	431.2	412.3	402.5	401.9	401.9
52.5°	5026.9	3823.0	817.3	508.8	474.6	442.2	410.5	386.6	375.0	372.6	371.4
55°	5755.0	4376.4	790.4	500.2	450.2	419.6	385.4	361.6	348.8	343.3	342.7
57.5°	6569.2	5049.5	843.5	489.9	425.1	392.7	357.9	335.3	321.9	315.2	314.6
60°	7393.1	5784.3	1060.4	475.2	404.4	363.4	329.8	309.1	295.6	288.3	287.1
62.5°	8218.3	6558.8	1503.2	474.0	389.7	335.3	301.1	283.4	270.6	262.6	260.8
65°	9149.2	7406.6	2006.5	506.4	384.8	309.7	271.8	257.8	246.8	239.4	238.8
67.5°	10218.1	8363.7	1958.2	572.9	401.3	286.5	244.3	233.3	225.4	219.3	218.7
70°	10719.6	8214.1	1217.3	620.0	424.5	263.9	218.1	210.1	204.0	199.7	197.9
71°	10509.4	7799.3	1020.6	614.5	422.1	254.1	207.7	201.6	195.5	191.8	190.0
72.5°	9936.5	7112.8	851.5	571.7	394.6	236.4	194.2	188.1	182.6	178.4	177.1
75°	8916.5	6352.3	681.7	456.9	314.6	199.7	170.4	163.7	159.4	157.0	154.5
77.5°	6554.5	4533.4	527.1	361.0	231.5	163.1	145.4	140.5	136.2	132.5	130.7
80°	2511.0	1756.1	354.9	269.4	169.8	128.9	117.3	114.8	110.6	108.1	108.1
82.5°	676.2	524.7	189.3	163.1	113.6	94.1	89.8	88.6	84.9	80.0	80.6
85°	273.6	231.5	106.3	89.8	69.6	55.6	60.5	61.1	56.8	50.7	51.3
87.5°	120.3	98.3	59.2	39.7	30.5	21.4	27.5	27.5	25.0	20.8	18.9
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)