

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: P322163

Luminaire Tested: **GAN-SA9B-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322163
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31134 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 374
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



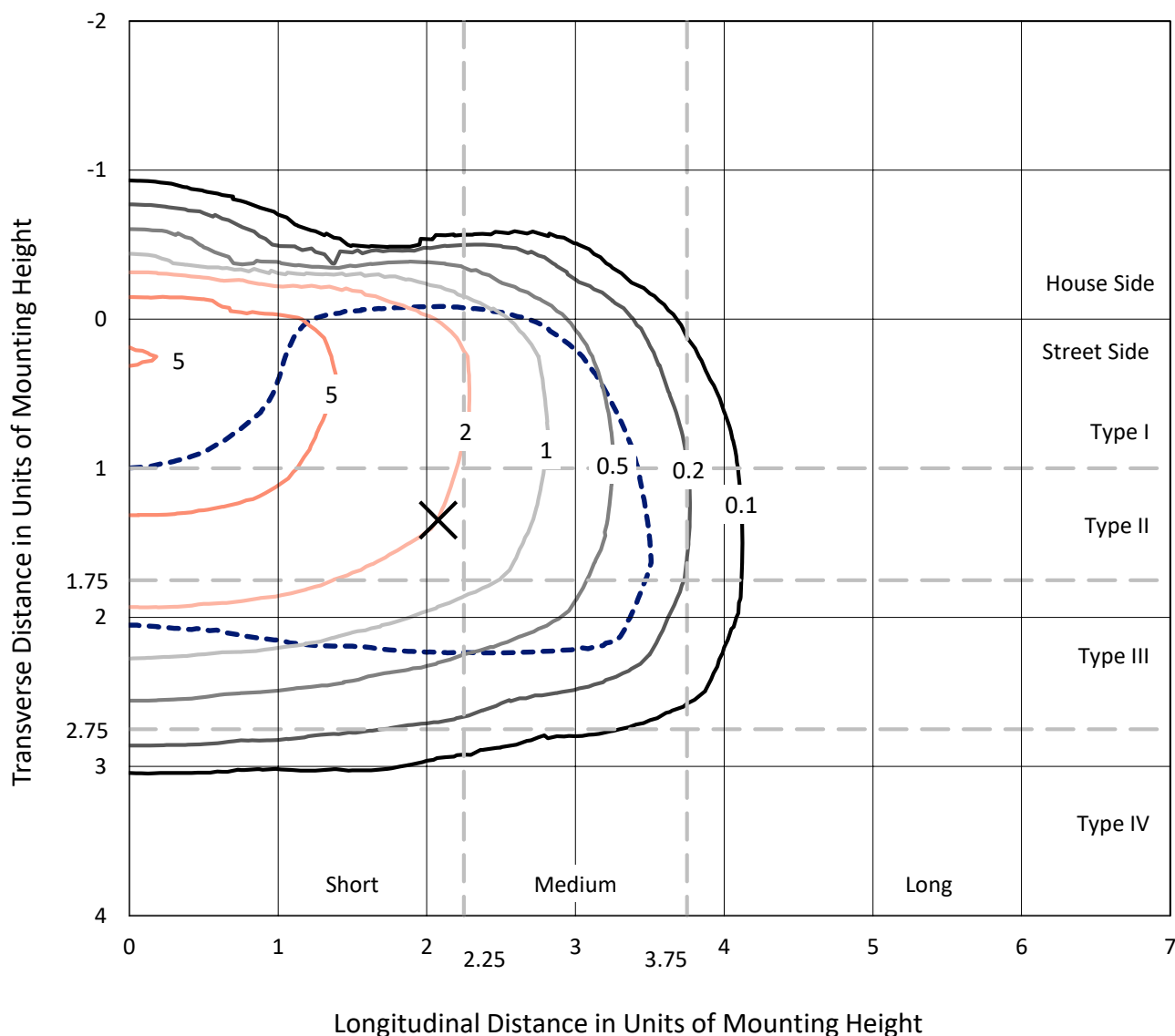
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

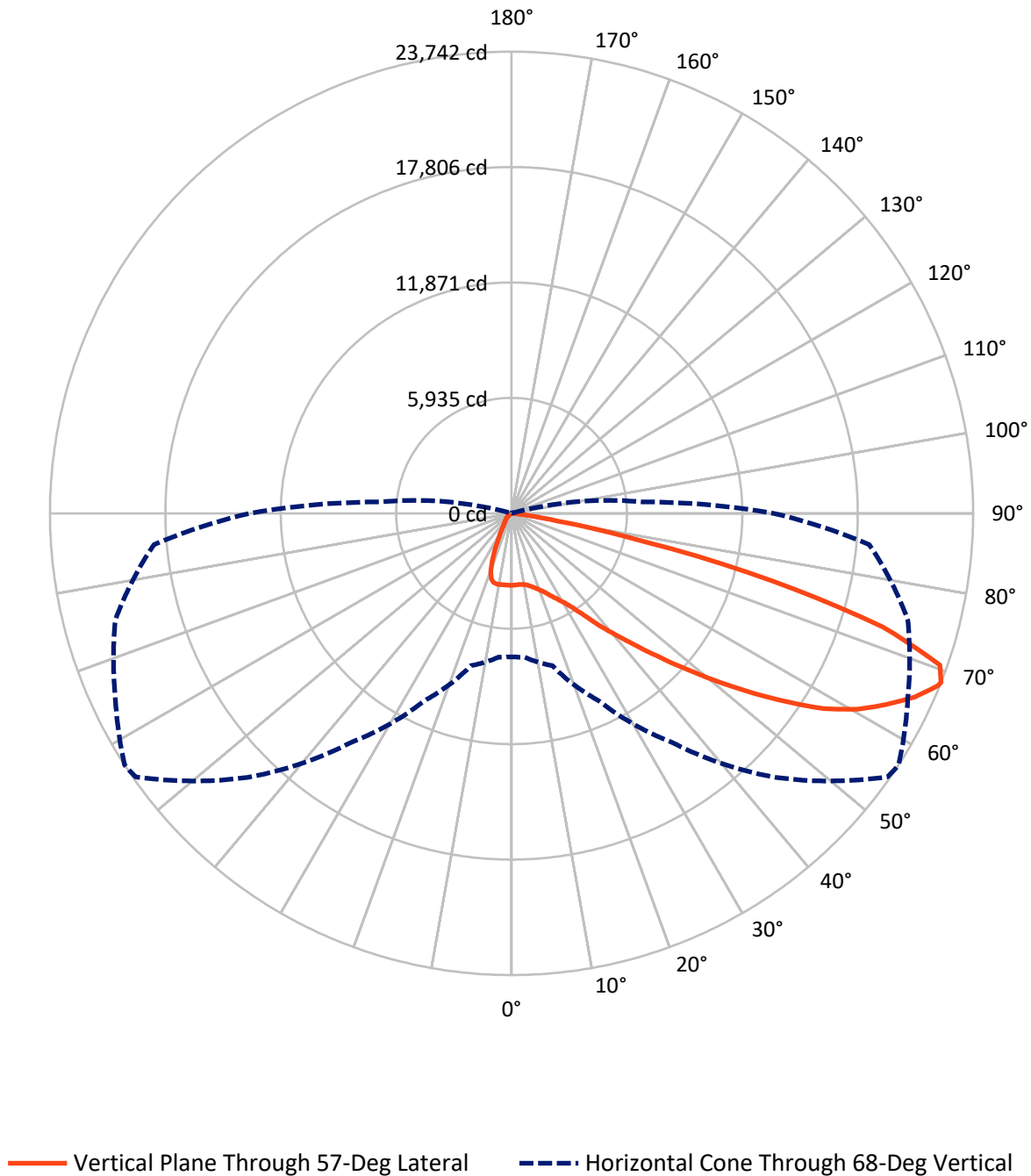


Based on 25 foot mounting height. Maximum calculated value = 7.6 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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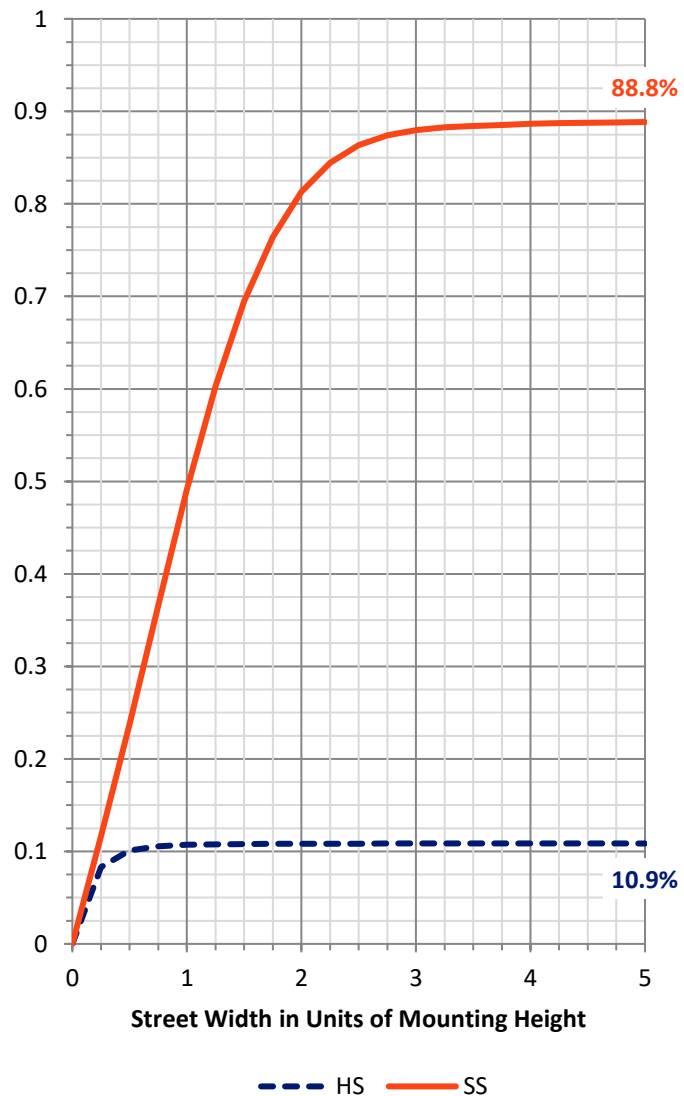
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3414.0	0.0	3414.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	27720.0	0.0	27720.0
	% Fixture	89.0	0.0	89.0
Total	Lumens	31134.0	0.0	31134.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.2	1.1
10°-20°	959.4	3.1
20°-30°	1655.1	5.3
30°-40°	2856.6	9.2
40°-50°	4886.2	15.7
50°-60°	7817.5	25.1
60°-70°	9032.3	29.0
70°-80°	3451.4	11.1
80°-90°	129.4	0.4
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°	31134.0	100.0
0°-180°	31134.0	100.0

Coefficient of Utilization



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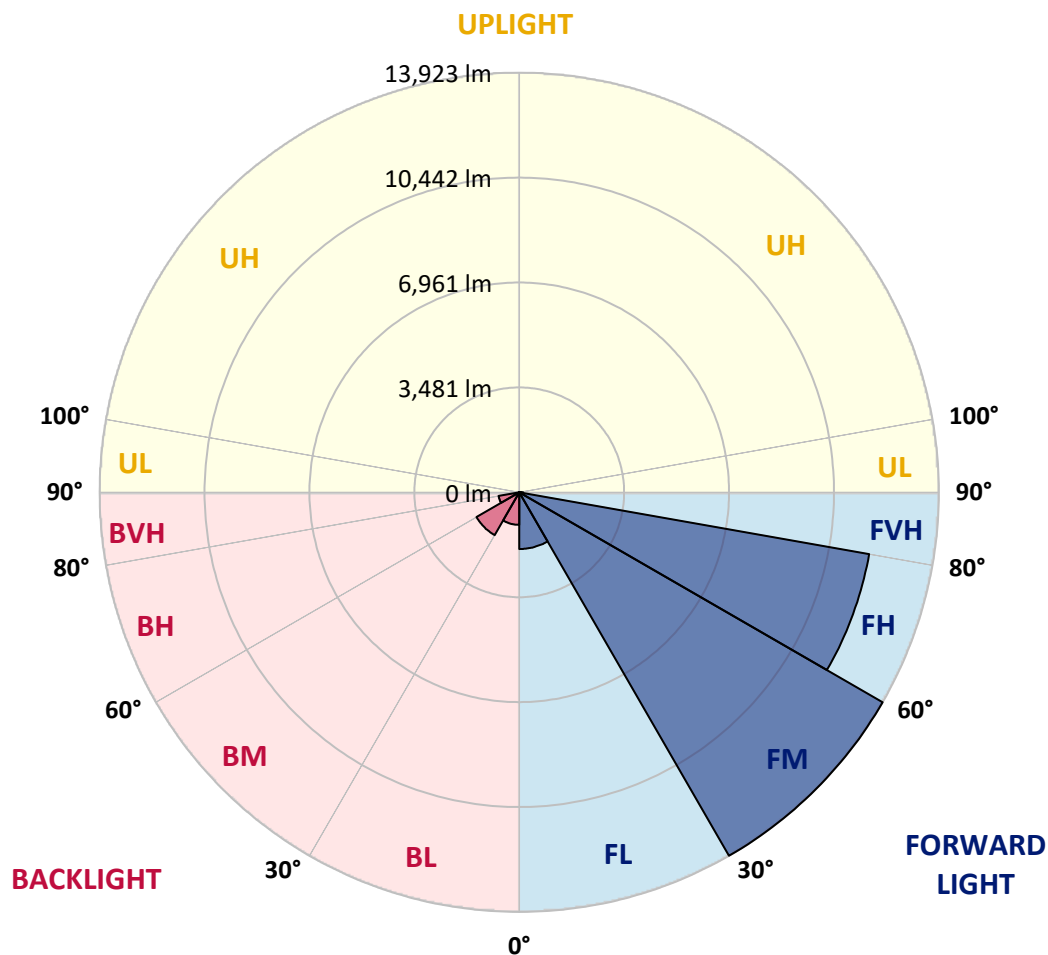
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1881.8	6.0			
FM	(30°-60°)	13922.9	44.7			
FH	(60°-80°)	11788.3	37.9			G4/12000
FVH	(80°-90°)	127.0	0.4			G2/225
BL	(0°-30°)	1078.9	3.5	B3/2500		
BM	(30°-60°)	1637.4	5.3	B2/2500		
BH	(60°-80°)	695.3	2.2	B2/1000		G2/1000
BVH	(80°-90°)	2.4	0.0			G0/10
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5
2.5°	3612.7	3628.9	3640.7	3648.0	3656.8	3676.0	3681.9	3690.7	3695.1	3695.1	3705.4
5°	3469.9	3487.5	3512.6	3533.2	3574.4	3627.4	3665.7	3680.4	3706.9	3730.5	3743.7
7.5°	3337.4	3358.0	3387.4	3436.0	3506.7	3592.1	3671.6	3692.2	3743.7	3793.8	3818.8
10°	3252.0	3268.2	3306.5	3375.7	3468.4	3587.7	3699.5	3724.6	3812.9	3896.8	3943.9
12.5°	3222.6	3237.3	3277.0	3355.1	3469.9	3609.7	3764.3	3801.1	3930.7	4052.9	4119.1
15°	3265.3	3268.2	3310.9	3384.5	3497.9	3664.2	3871.8	3915.9	4079.4	4238.4	4320.8
17.5°	3430.1	3416.9	3439.0	3471.4	3561.2	3736.3	3985.1	4051.4	4269.3	4456.2	4534.3
20°	3842.3	3842.3	3792.3	3704.0	3705.4	3848.2	4138.2	4213.3	4479.8	4696.2	4766.9
22.5°	4547.5	4534.3	4434.1	4217.7	4019.0	4041.1	4325.2	4422.4	4733.0	4964.1	4987.7
25°	5395.5	5379.3	5224.7	4920.0	4575.5	4353.2	4578.4	4690.3	5034.8	5239.4	5190.8
27.5°	6293.5	6280.2	6127.1	5748.8	5258.6	4850.8	4880.2	4986.2	5342.5	5544.2	5389.6
30°	7163.5	7168.0	7016.3	6627.7	6072.7	5485.3	5263.0	5324.8	5641.3	5846.0	5625.1
32.5°	7990.9	7996.8	7865.8	7431.5	6913.3	6222.8	5793.0	5776.8	5988.8	6190.4	5937.2
35°	8728.4	8743.2	8653.4	8316.2	7767.1	7044.3	6480.5	6442.2	6481.9	6710.1	6415.7
37.5°	9439.5	9448.3	9380.6	9096.5	8637.2	7946.7	7349.0	7294.6	7209.2	7384.4	7047.2
40°	10218.3	10196.2	10118.2	9860.5	9466.0	8943.4	8282.4	8188.2	8039.5	8195.5	7877.5
42.5°	10942.6	10917.5	10930.8	10639.3	10306.6	9968.0	9370.3	9208.4	9121.5	9301.1	8896.3
45°	11847.9	11834.7	11878.9	11625.7	11356.2	11110.4	10617.2	10440.6	10402.3	10612.8	10128.5
47.5°	12741.6	12773.9	12910.9	12803.4	12694.4	12478.0	11937.8	11858.3	11881.8	12136.5	11428.4
50°	13486.5	13524.7	13900.1	14023.8	14181.3	14054.7	13513.0	13464.4	13557.1	13786.8	12826.9
52.5°	14025.3	14103.3	14570.0	15139.7	15713.8	15799.2	15258.9	15214.8	15339.9	15375.2	13907.5
55°	14399.2	14468.4	14996.9	16039.2	17208.1	17576.1	17240.5	17069.7	17046.1	16697.2	15044.0
57.5°	14465.5	14458.1	15217.7	16620.7	18379.9	19329.5	19117.5	18949.7	18466.8	17919.1	16346.9
60°	14091.5	14134.2	15016.0	16822.4	19116.0	20655.9	20672.1	20454.2	19701.9	19107.2	17610.0
62.5°	12940.3	13114.0	14004.7	16293.9	19107.2	21190.3	21811.5	21645.2	20745.7	20080.3	18890.8
65°	11073.6	11135.4	11984.9	14483.1	17816.1	20966.5	22837.6	22775.8	21686.4	21025.4	19548.8
67.5°	8086.6	7952.6	8844.7	11404.8	15083.8	19662.2	23573.7	23651.7	22412.2	21219.7	18848.1
68°	7379.9	7419.7	8114.6	10643.7	14368.3	19201.4	23622.3	23741.5	22484.3	21093.1	18465.3
70°	4398.8	4475.4	5095.1	7328.4	10930.8	16594.2	23098.2	23370.6	22054.4	19787.3	15971.5
72.5°	1123.3	1214.5	1800.5	3280.0	6243.4	11691.9	19498.8	19959.6	19148.4	16052.4	10782.1
75°	462.3	485.8	643.3	1080.6	2326.0	5267.4	12852.0	13838.3	13274.5	9610.3	4872.9
77.5°	319.5	335.7	413.7	599.2	1007.0	1785.7	6300.8	7013.4	6318.5	3280.0	1062.9
80°	229.7	242.9	295.9	399.0	578.6	637.4	2053.7	2374.6	1885.8	719.9	263.5
82.5°	136.9	147.2	220.8	284.1	351.8	304.7	510.8	580.0	546.2	357.7	117.8
85°	67.7	79.5	148.7	203.2	189.9	128.1	156.0	173.7	214.9	217.9	63.3
87.5°	4.4	8.8	86.9	122.2	53.0	29.4	45.6	55.9	76.6	107.5	26.5
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°	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5	3699.5
2.5°	3709.8	3711.3	3701.0	3696.6	3699.5	3681.9	3674.5	3677.5	3677.5	3681.9	3674.5
5°	3746.6	3746.6	3729.0	3705.4	3692.2	3658.3	3636.2	3630.3	3625.9	3623.0	3617.1
7.5°	3826.1	3817.3	3786.4	3734.9	3690.7	3617.1	3561.2	3531.7	3517.0	3511.1	3506.7
10°	3954.2	3938.0	3886.5	3790.8	3689.2	3558.2	3436.0	3349.2	3277.0	3247.6	3229.9
12.5°	4126.5	4102.9	4016.1	3857.1	3678.9	3437.5	3172.5	2917.8	2680.8	2583.6	2535.1
15°	4325.2	4291.3	4154.4	3913.0	3618.6	3165.1	2589.5	2143.5	1815.2	1691.5	1638.5
17.5°	4526.9	4482.7	4275.2	3948.3	3437.5	2601.3	1816.6	1372.1	1152.7	1093.8	1073.2
20°	4730.1	4665.3	4379.7	3921.8	3028.2	1875.5	1198.3	1002.5	939.2	921.6	915.7
22.5°	4922.9	4822.8	4473.9	3818.8	2398.1	1258.7	948.1	886.2	865.6	855.3	852.4
25°	5090.7	4950.9	4556.3	3500.8	1697.4	951.0	853.9	833.2	806.7	787.6	789.1
27.5°	5248.3	5079.0	4606.4	2976.7	1132.1	812.6	790.6	762.6	714.0	686.0	686.0
30°	5438.2	5249.7	4643.2	2290.7	833.2	718.4	700.7	658.1	591.8	555.0	555.0
32.5°	5723.8	5508.8	4619.6	1607.6	690.4	631.6	590.3	531.5	459.3	424.0	422.5
35°	6161.0	5909.3	4451.8	1054.1	609.5	549.1	482.9	410.7	347.4	318.0	316.5
37.5°	6749.9	6445.1	4074.9	753.7	546.2	472.6	393.1	313.6	266.5	247.3	245.9
40°	7513.9	7067.8	3536.1	610.9	487.3	399.0	303.3	242.9	210.5	195.8	197.3
42.5°	8431.1	7734.7	2889.9	527.0	429.9	328.3	237.0	191.4	170.8	160.5	157.5
45°	9449.8	8392.8	2212.7	469.6	372.5	265.0	185.5	151.6	135.4	129.6	129.6
47.5°	10570.1	9033.2	1619.4	419.6	310.6	204.6	148.7	123.7	110.4	106.0	104.5
50°	11587.4	9477.8	1167.4	366.6	254.7	161.9	120.7	103.1	94.2	88.3	88.3
52.5°	12435.3	9617.6	859.7	309.2	206.1	129.6	100.1	88.3	79.5	75.1	75.1
55°	13181.7	9560.2	638.9	254.7	166.4	106.0	85.4	75.1	67.7	63.3	63.3
57.5°	13897.2	9374.7	477.0	207.6	134.0	85.4	72.1	63.3	55.9	53.0	53.0
60°	14481.6	9065.6	354.8	167.8	107.5	69.2	60.4	51.5	45.6	41.2	41.2
62.5°	14955.7	8724.0	260.6	138.4	85.4	54.5	47.1	42.7	33.9	29.4	29.4
65°	14958.6	8157.2	195.8	114.8	66.2	42.7	35.3	33.9	22.1	17.7	16.2
67.5°	13876.6	7032.5	150.2	98.6	51.5	32.4	26.5	28.0	11.8	7.4	5.9
68°	13483.5	6746.9	141.3	97.2	48.6	30.9	25.0	28.0	10.3	5.9	4.4
70°	11368.0	5367.5	113.4	94.2	42.7	23.6	20.6	28.0	8.8	4.4	2.9
72.5°	7271.0	3115.1	83.9	75.1	32.4	17.7	13.2	25.0	8.8	2.9	1.5
75°	3094.5	965.7	57.4	53.0	19.1	13.2	8.8	16.2	5.9	1.5	0.0
77.5°	652.2	217.9	33.9	32.4	13.2	8.8	5.9	4.4	1.5	0.0	0.0
80°	167.8	63.3	17.7	16.2	7.4	4.4	2.9	0.0	0.0	0.0	0.0
82.5°	53.0	25.0	10.3	7.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.5	14.7	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.7	4.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)