

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: P318469

Luminaire Tested: **GAN-SA5A-760-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-760-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23296 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

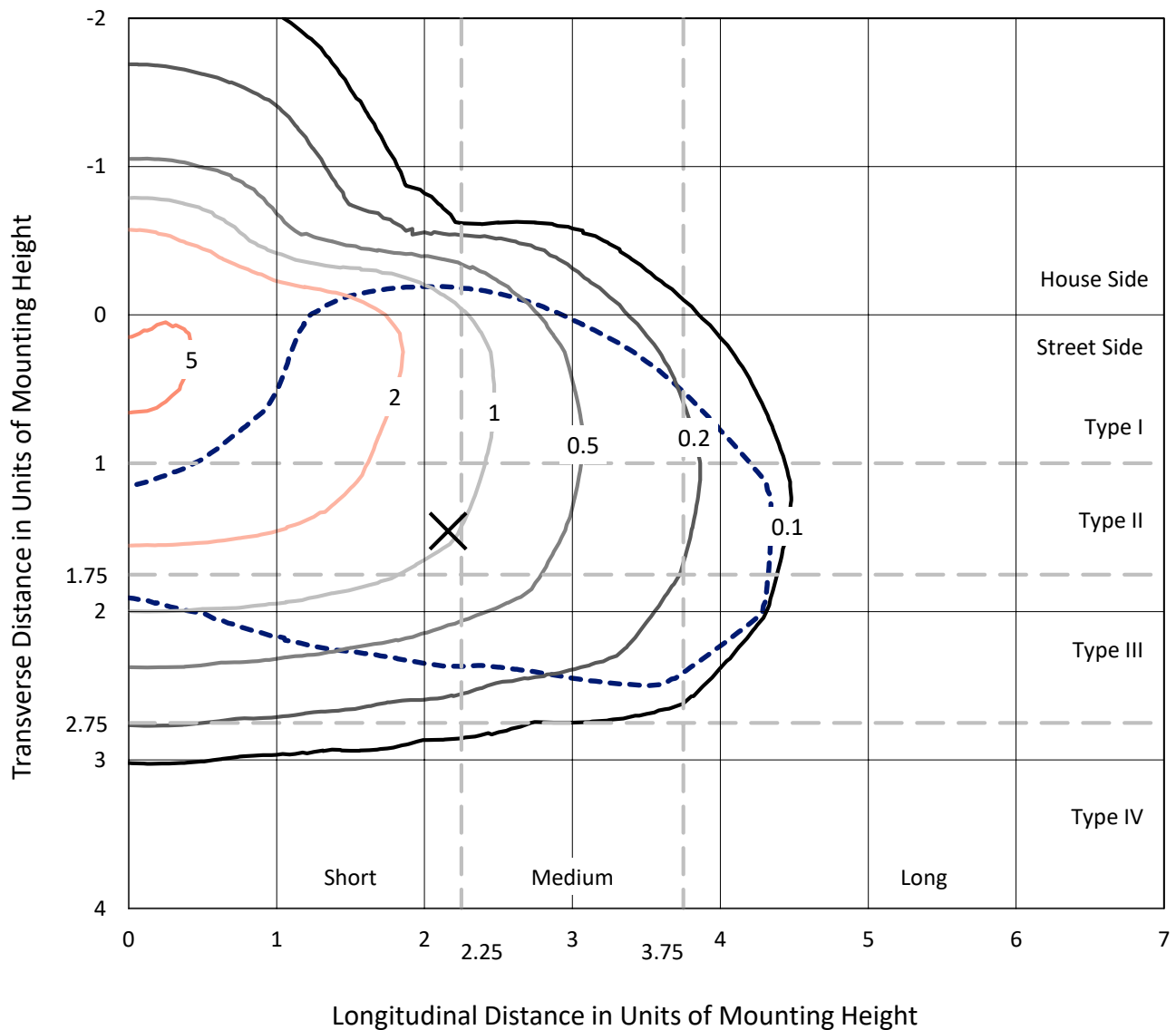
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

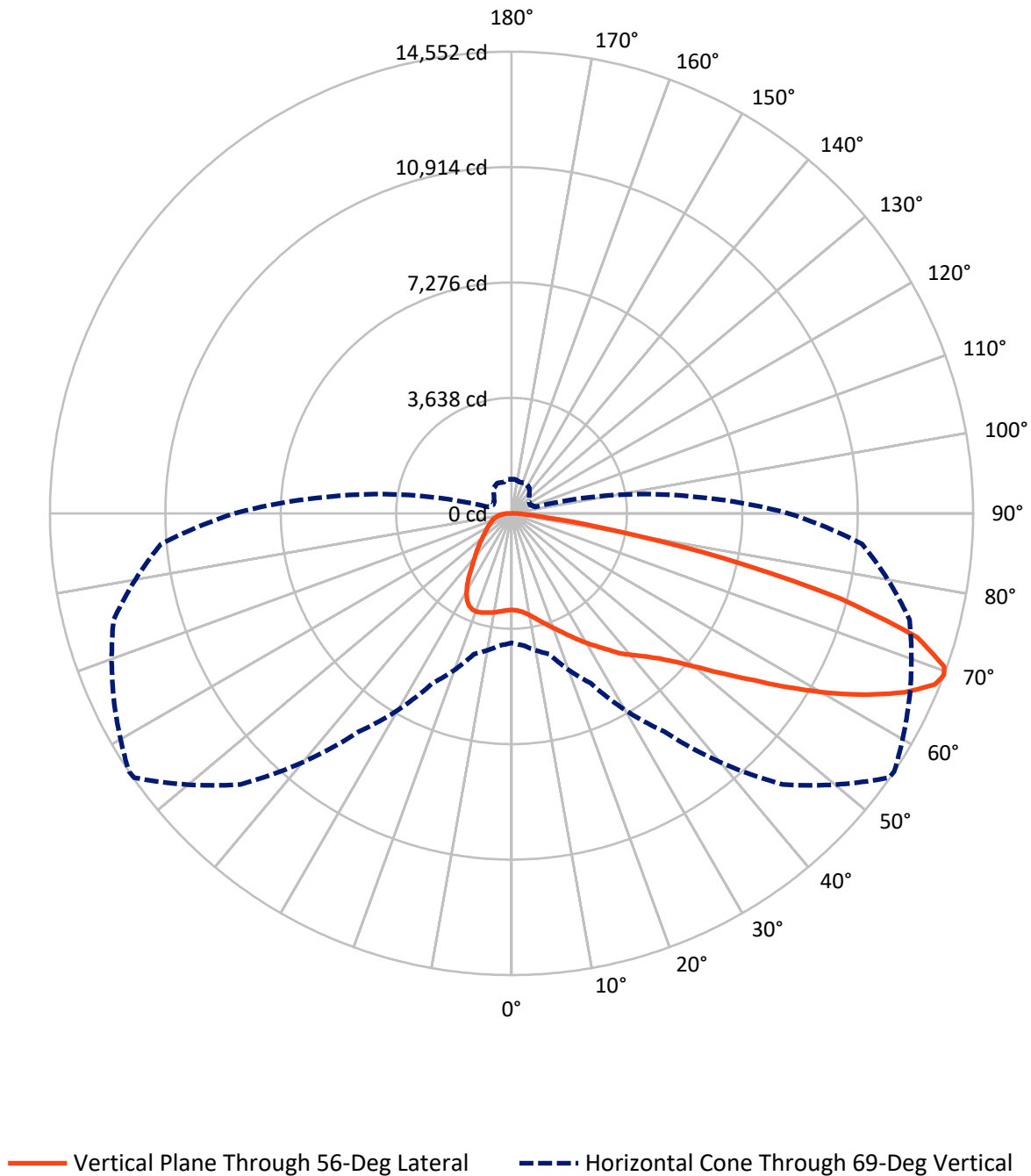
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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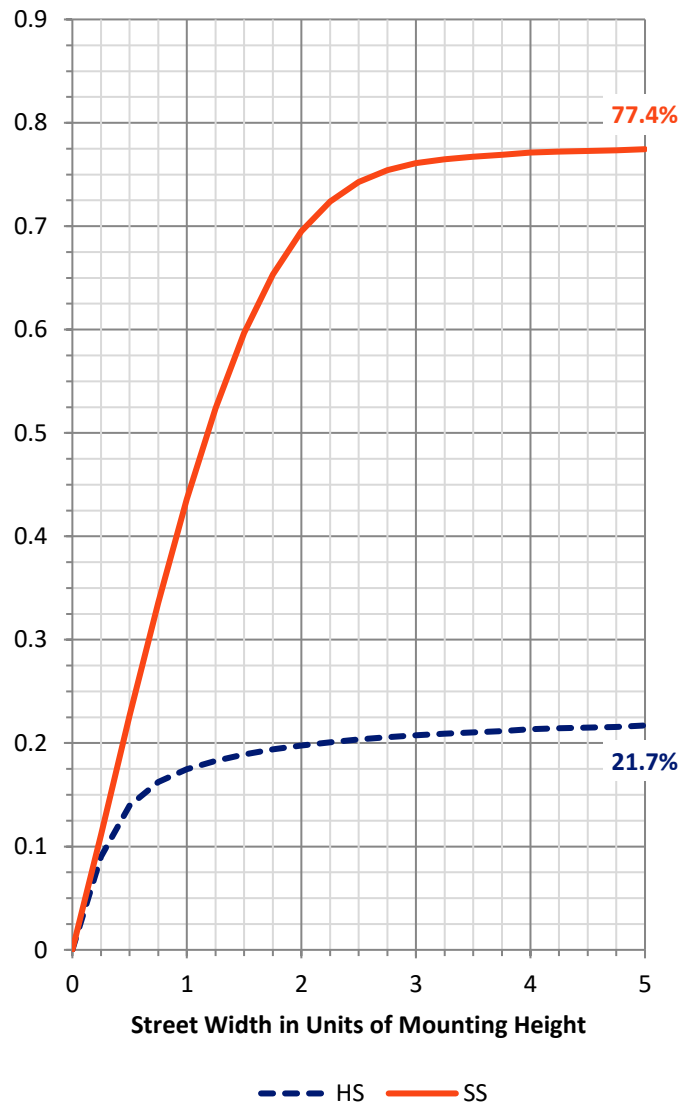
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5188.0	0.0	5188.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	18108.0	0.0	18108.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	23296.0	0.0	23296.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.1	1.3
10°-20°	961.9	4.1
20°-30°	1679.1	7.2
30°-40°	2411.9	10.4
40°-50°	3338.0	14.3
50°-60°	4890.6	21.0
60°-70°	5962.5	25.6
70°-80°	3296.5	14.2
80°-90°	456.6	2.0
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°	23296.0	100.0
0°-180°	23296.0	100.0

Coefficient of Utilization



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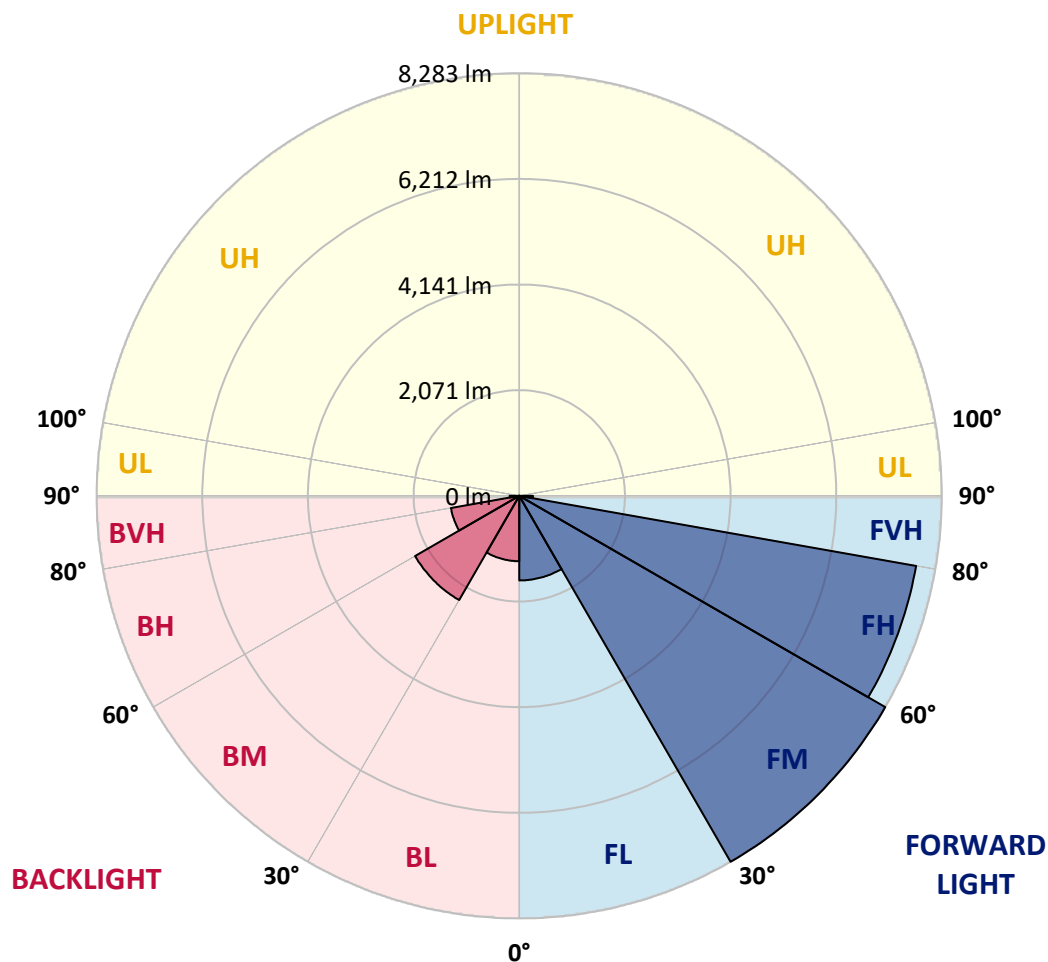
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1658.0	7.1			
FM	(30°-60°)	8282.6	35.6			
FH	(60°-80°)	7898.5	33.9			G4/12000
FVH	(80°-90°)	268.9	1.2			G3/500
BL	(0°-30°)	1282.1	5.5	B3/2500		
BM	(30°-60°)	2357.8	10.1	B2/2500		
BH	(60°-80°)	1360.5	5.8	B3/2500		G3/2500
BVH	(80°-90°)	187.6	0.8			G2/225
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°	56°	65°	75°	85°
0°	3045.6	3045.6	3045.6	3045.6	3045.6	3045.6	3045.6	3045.6	3045.6	3045.6	3045.6
2.5°	3064.9	3068.1	3065.7	3072.1	3064.9	3069.7	3065.7	3065.7	3063.3	3056.0	3048.0
5°	3113.0	3119.4	3115.4	3121.8	3113.0	3114.6	3107.4	3107.4	3100.2	3084.9	3068.9
7.5°	3188.5	3195.7	3192.5	3198.9	3186.8	3186.8	3177.2	3176.4	3162.0	3137.1	3118.6
10°	3278.3	3288.0	3284.8	3294.4	3284.8	3288.0	3278.3	3278.3	3259.1	3223.8	3200.5
12.5°	3409.1	3421.2	3412.4	3411.6	3407.5	3414.0	3405.9	3404.3	3386.7	3338.5	3306.4
15°	3584.1	3596.9	3578.5	3576.9	3554.4	3552.0	3552.0	3549.6	3538.4	3480.6	3427.6
17.5°	3785.5	3789.5	3773.5	3747.8	3718.9	3700.5	3698.1	3704.5	3704.5	3637.1	3552.8
20°	3983.0	3990.2	3977.3	3948.4	3911.5	3884.2	3865.0	3877.8	3877.0	3796.8	3677.2
22.5°	4198.0	4214.9	4195.6	4158.7	4115.4	4084.9	4051.2	4062.4	4063.2	3964.5	3799.2
25°	4476.5	4461.3	4449.2	4397.1	4335.3	4304.0	4272.7	4283.9	4280.7	4145.1	3925.2
27.5°	4722.9	4726.1	4710.0	4654.7	4583.2	4514.2	4512.6	4519.8	4507.8	4332.9	4043.9
30°	5009.4	5011.0	4988.5	4938.8	4860.9	4771.8	4751.0	4763.0	4737.3	4511.0	4169.1
32.5°	5294.3	5302.3	5277.4	5217.2	5154.7	5046.3	5004.6	5012.6	4948.4	4693.2	4298.4
35°	5543.9	5555.1	5547.1	5507.0	5438.7	5345.7	5295.9	5291.1	5211.6	4916.3	4469.3
37.5°	5798.3	5808.7	5799.9	5766.2	5738.9	5640.2	5613.7	5613.7	5475.7	5144.2	4686.8
40°	6059.9	6076.0	6065.5	6019.0	5995.7	5950.8	5887.4	5872.1	5722.8	5417.9	5041.5
42.5°	6303.1	6323.9	6365.7	6338.4	6291.0	6297.5	6169.9	6161.8	6052.7	5822.4	5486.9
45°	6648.2	6678.7	6749.3	6728.4	6718.8	6683.5	6531.8	6524.6	6482.8	6366.5	6039.8
47.5°	7024.5	7066.3	7193.9	7197.9	7301.4	7234.8	7028.6	7003.7	7013.3	7018.1	6714.8
50°	7371.2	7417.0	7626.4	7725.2	7969.1	7983.6	7653.7	7631.3	7669.0	7779.7	7501.2
52.5°	7648.1	7705.9	7967.5	8272.5	8690.6	8809.4	8423.4	8406.5	8434.6	8625.6	8390.5
55°	7851.2	7913.7	8198.6	8754.0	9421.7	9631.2	9309.3	9293.3	9311.0	9554.1	9357.5
57.5°	7898.5	7913.7	8327.1	9078.2	10038.8	10542.0	10393.6	10361.5	10274.8	10486.7	10424.9
60°	7676.2	7737.2	8221.1	9192.2	10516.4	11440.1	11526.7	11486.6	11243.4	11416.8	11367.0
62.5°	7225.2	7334.3	7825.5	9018.8	10703.3	12173.6	12638.2	12590.1	12171.2	12283.5	12044.4
65°	6488.5	6535.0	7051.0	8420.9	10465.8	12643.1	13629.4	13605.3	13078.0	12902.3	12169.6
67.5°	5170.7	5258.2	5696.4	7171.4	9493.9	12587.7	14395.8	14393.4	13670.3	13131.8	11725.8
69°	4084.9	4175.6	4592.9	5907.4	8400.9	12081.3	14524.2	14552.3	13837.2	12992.2	11091.8
70°	3256.7	3361.8	3648.3	4975.7	7430.6	11413.6	14417.5	14468.0	13805.1	12761.8	10506.7
72.5°	1386.0	1471.0	1674.9	2564.9	4528.7	8522.9	13182.4	13373.4	13061.2	11680.0	8683.4
75°	605.1	631.6	723.9	1045.7	2010.3	4638.6	10327.0	10680.1	11168.0	9872.7	6468.4
77.5°	443.0	454.2	504.8	613.9	902.0	1751.9	6640.9	6846.4	8054.2	7184.2	3967.7
80°	342.7	350.7	390.0	451.0	589.1	708.6	3028.7	3205.3	4528.7	3690.0	1652.4
82.5°	272.9	278.5	305.8	332.2	406.9	429.4	1005.6	1115.5	1671.7	1019.2	437.4
85°	253.6	260.0	269.7	242.4	260.8	252.0	435.0	455.0	504.8	400.5	183.0
87.5°	114.8	135.6	267.2	188.6	138.8	110.7	178.2	186.2	209.5	210.3	81.1
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°	3045.6	3045.6	3045.6	3045.6	3045.6	3045.6	3045.6	3045.6	3045.6	3045.6	3045.6
2.5°	3052.8	3050.4	3054.4	3044.8	3056.8	3056.0	3052.0	3053.6	3061.7	3060.8	3061.7
5°	3071.3	3069.7	3074.5	3067.3	3081.7	3086.5	3087.3	3094.6	3103.4	3105.8	3105.8
7.5°	3117.8	3117.8	3120.2	3110.6	3120.2	3119.4	3115.4	3122.6	3131.5	3132.3	3131.5
10°	3198.1	3198.9	3194.9	3170.0	3162.0	3140.3	3120.2	3121.0	3132.3	3141.1	3143.5
12.5°	3299.2	3296.0	3278.3	3232.6	3198.9	3154.7	3133.9	3133.1	3144.3	3151.5	3153.9
15°	3414.8	3405.9	3360.2	3285.6	3226.2	3182.8	3149.1	3141.1	3134.7	3126.7	3127.5
17.5°	3523.9	3503.8	3427.6	3324.1	3261.5	3203.7	3138.7	3086.5	3050.4	3029.6	3023.1
20°	3634.7	3595.3	3485.4	3360.2	3280.7	3175.6	3050.4	2944.5	2878.7	2848.2	2842.6
22.5°	3735.8	3672.4	3539.2	3397.9	3265.5	3080.9	2884.3	2730.2	2638.7	2597.8	2601.0
25°	3834.5	3746.2	3595.3	3424.4	3188.5	2914.0	2653.2	2463.8	2357.8	2312.1	2310.5
27.5°	3921.2	3820.8	3656.3	3402.7	3044.8	2676.4	2379.5	2194.9	2106.6	2067.3	2060.9
30°	4020.7	3914.7	3737.4	3320.1	2834.5	2402.0	2112.3	1982.2	1919.7	1880.3	1873.1
32.5°	4141.9	4042.3	3804.0	3170.0	2565.7	2115.5	1903.6	1812.9	1755.9	1711.8	1703.8
35°	4318.4	4210.9	3820.8	2954.9	2270.4	1889.2	1750.3	1657.2	1580.2	1523.2	1517.6
37.5°	4539.9	4421.9	3782.3	2676.4	1983.9	1742.3	1622.7	1508.0	1407.6	1327.4	1314.5
40°	4859.3	4681.2	3675.6	2355.4	1772.8	1629.1	1498.3	1367.5	1243.1	1149.2	1130.8
42.5°	5242.9	4985.3	3511.9	2036.0	1617.9	1514.4	1374.7	1212.6	1093.8	1027.2	1017.6
45°	5730.9	5301.5	3284.8	1756.7	1465.4	1399.6	1241.5	1092.2	1018.4	969.5	961.4
47.5°	6287.8	5656.2	3046.4	1529.6	1336.2	1292.1	1134.8	1038.5	979.9	941.4	934.1
50°	6972.4	6056.7	2793.6	1343.4	1206.2	1162.9	1084.2	1008.8	962.2	932.5	925.3
52.5°	7744.4	6508.5	2611.4	1196.6	1098.7	1067.4	1057.7	992.7	955.0	932.5	925.3
55°	8575.8	6968.4	2414.8	1073.0	1005.6	1014.4	1040.1	994.3	968.7	941.4	930.9
57.5°	9408.1	7443.5	2195.7	968.7	931.7	975.1	1028.0	997.5	975.9	949.4	939.8
60°	10066.1	7744.4	1856.3	881.2	873.2	931.7	999.1	973.5	945.4	946.2	944.6
62.5°	10373.5	7728.4	1481.5	803.3	814.6	873.2	952.6	935.7	912.5	943.8	946.2
65°	10201.0	7343.1	1153.2	732.7	752.0	812.2	904.5	917.3	925.3	985.5	993.5
67.5°	9477.1	6593.6	893.2	670.9	695.0	770.4	909.3	999.1	1009.6	1073.0	1072.2
69°	8728.3	5890.6	776.0	638.8	666.9	780.9	971.9	1051.3	1012.0	1079.4	1069.8
70°	8100.7	5334.4	713.4	617.1	654.1	799.3	1013.6	1050.5	1000.0	1057.7	1041.7
72.5°	6238.9	3837.7	605.1	577.0	610.7	764.8	1025.6	1027.2	971.9	983.1	955.8
75°	4279.1	2425.2	528.1	522.4	544.9	689.4	987.1	981.5	898.8	882.8	860.3
77.5°	2359.4	1231.9	448.6	470.3	485.5	610.7	897.2	889.2	821.0	787.3	779.3
80°	910.1	539.3	378.8	418.1	427.7	528.9	786.5	779.3	722.3	678.9	666.9
82.5°	343.5	282.5	313.0	361.9	358.7	436.6	666.1	662.1	606.7	543.3	524.1
85°	158.9	169.3	248.0	298.5	275.3	323.4	532.9	540.1	472.7	397.3	397.3
87.5°	67.4	94.7	175.8	225.5	185.4	218.3	390.8	373.2	342.7	237.5	223.1
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)