

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: P318310

Luminaire Tested: **GAN-SA6A-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318310
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-SA6A-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23314 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

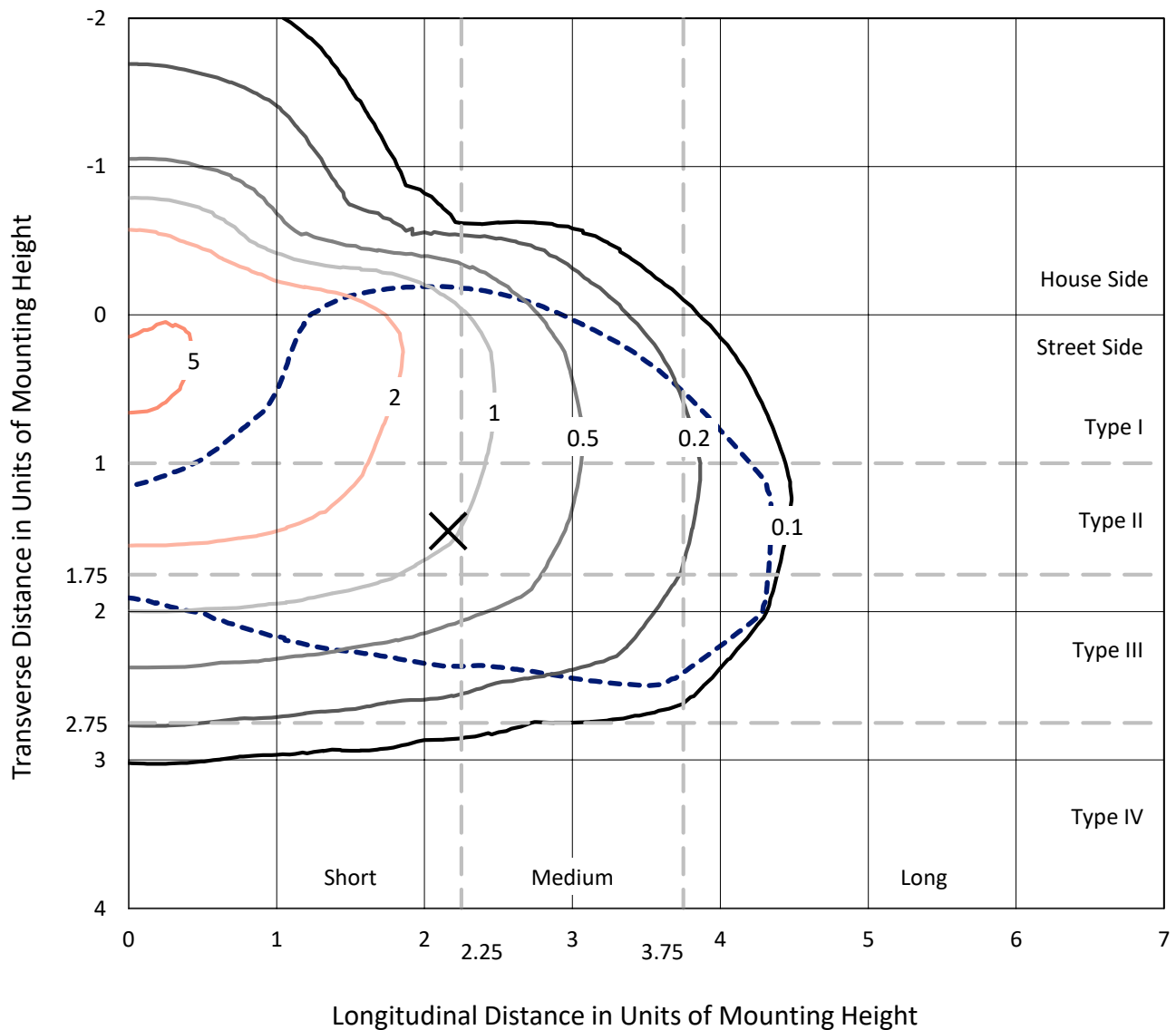
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

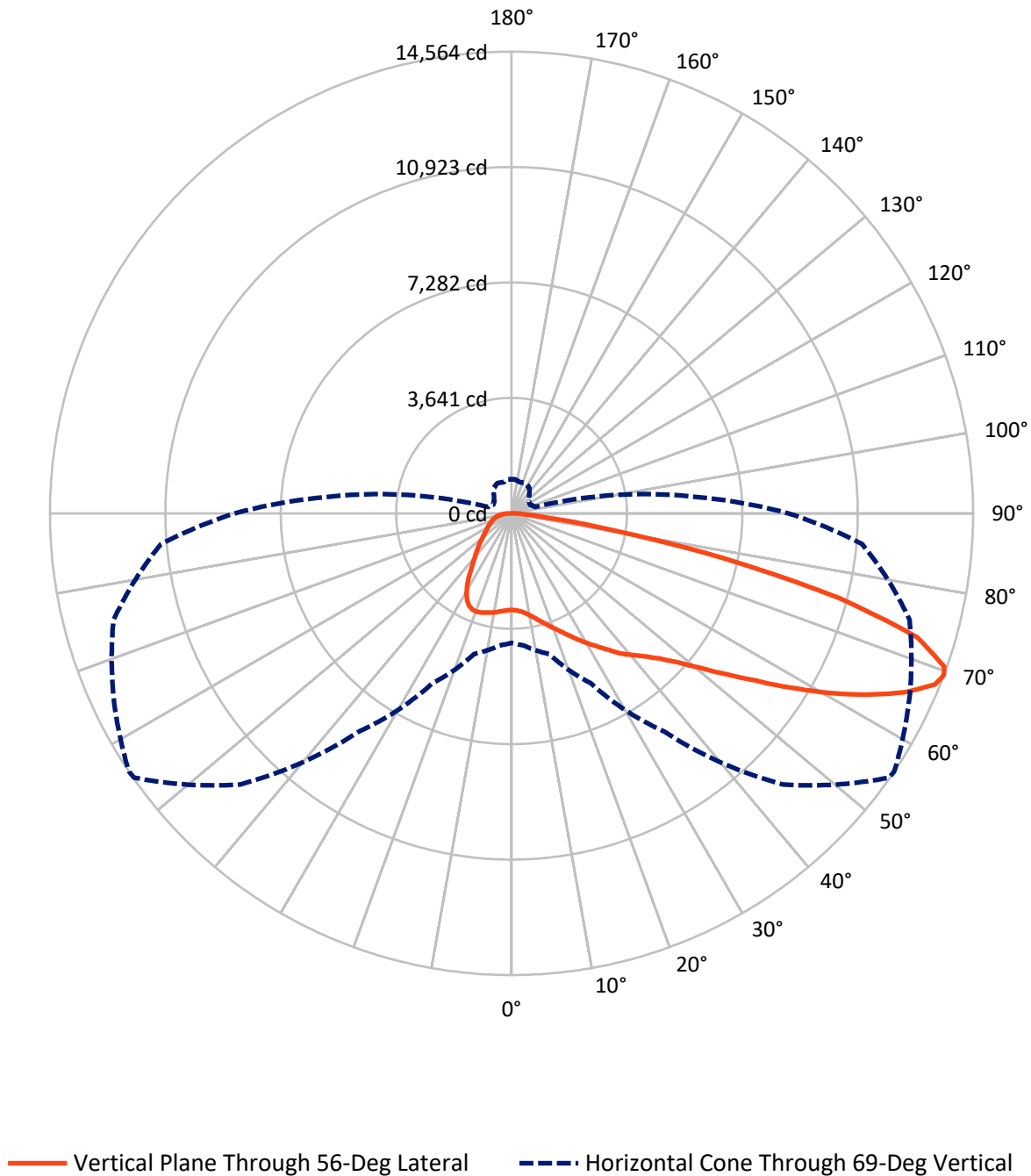
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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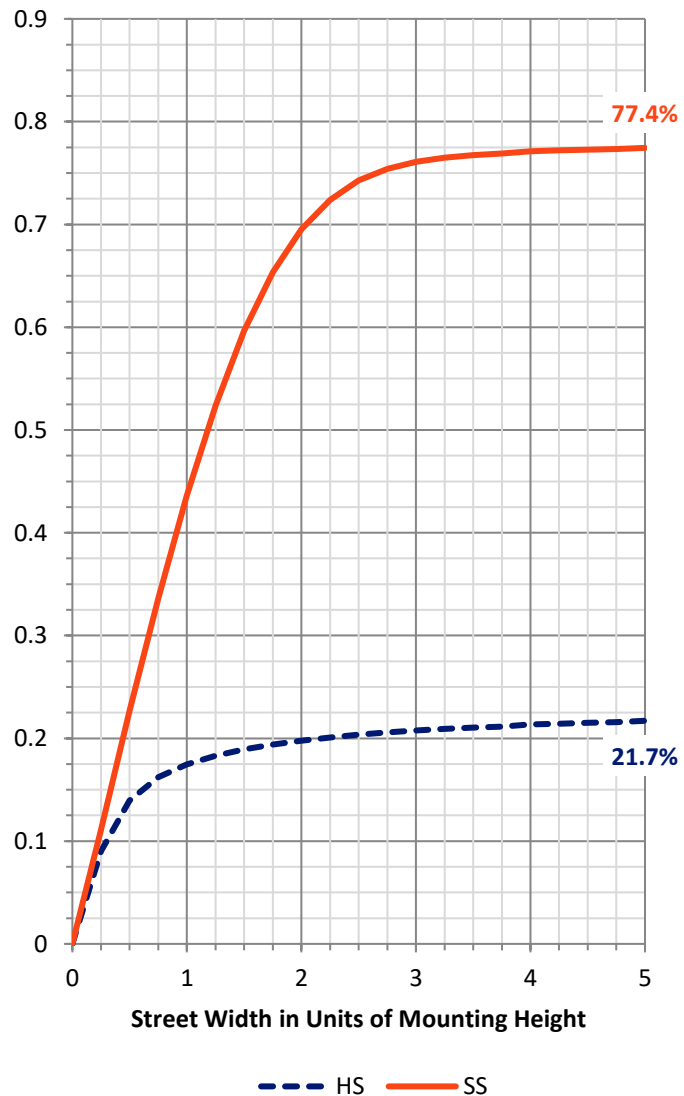
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5192.0	0.0	5192.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	18122.0	0.0	18122.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	23314.0	0.0	23314.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.4	1.3
10°-20°	962.6	4.1
20°-30°	1680.4	7.2
30°-40°	2413.8	10.4
40°-50°	3340.5	14.3
50°-60°	4894.3	21.0
60°-70°	5967.1	25.6
70°-80°	3299.0	14.2
80°-90°	456.9	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°	23314.0	100.0
0°-180°	23314.0	100.0

Coefficient of Utilization



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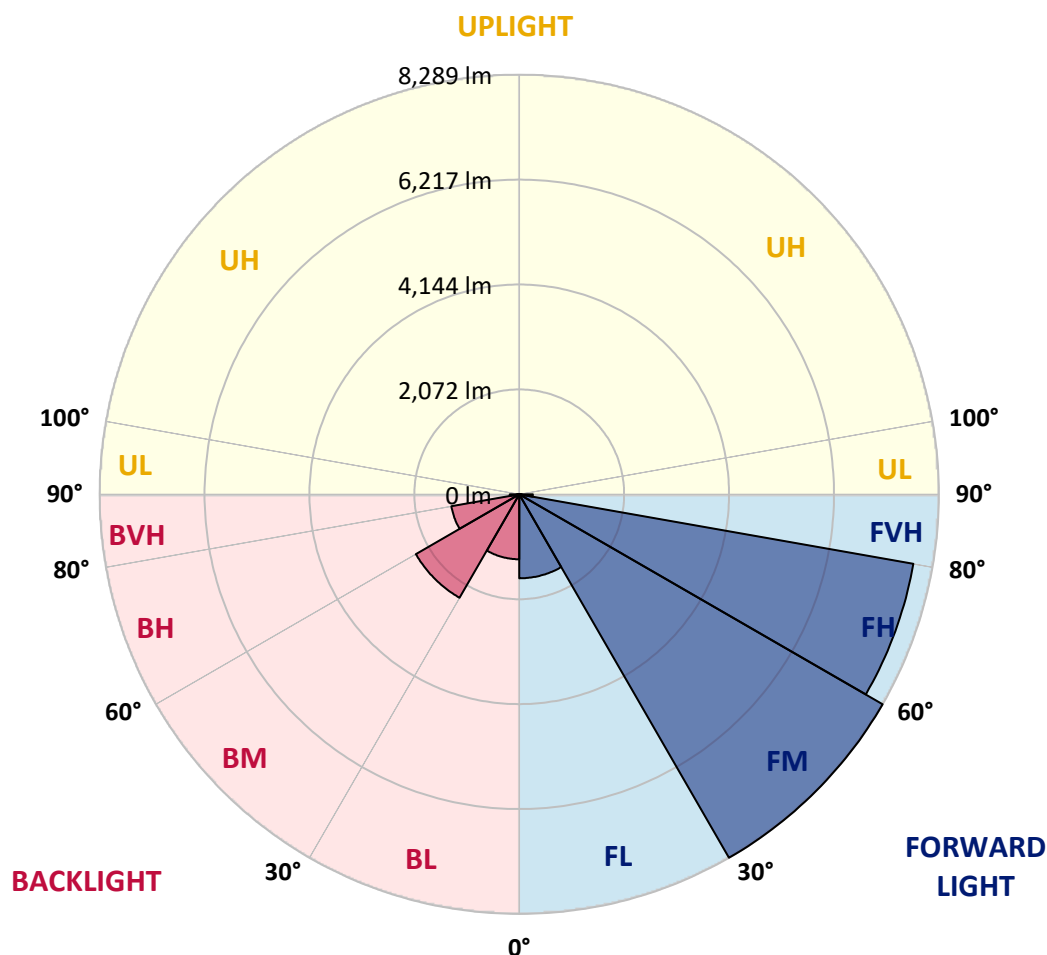
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1659.3	7.1			
FM	(30°-60°)	8289.0	35.6			
FH	(60°-80°)	7904.6	33.9			G4/12000
FVH	(80°-90°)	269.1	1.2			G3/500
BL	(0°-30°)	1283.1	5.5	B3/2500		
BM	(30°-60°)	2359.6	10.1	B2/2500		
BH	(60°-80°)	1361.5	5.8	B3/2500		G3/2500
BVH	(80°-90°)	187.8	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°	3048.0	3048.0	3048.0	3048.0	3048.0	3048.0	3048.0	3048.0	3048.0	3048.0	3048.0
2.5°	3067.2	3070.4	3068.0	3074.5	3067.2	3072.0	3068.0	3068.0	3065.6	3058.4	3050.4
5°	3115.4	3121.8	3117.8	3124.3	3115.4	3117.0	3109.8	3109.8	3102.6	3087.3	3071.2
7.5°	3190.9	3198.1	3194.9	3201.4	3189.3	3189.3	3179.7	3178.9	3164.4	3139.5	3121.0
10°	3280.9	3290.5	3287.3	3296.9	3287.3	3290.5	3280.9	3280.9	3261.6	3226.3	3203.0
12.5°	3411.8	3423.8	3415.0	3414.2	3410.2	3416.6	3408.6	3407.0	3389.3	3341.1	3309.0
15°	3586.9	3599.7	3581.2	3579.6	3557.2	3554.7	3554.7	3552.3	3541.1	3483.3	3430.3
17.5°	3788.5	3792.5	3776.4	3750.7	3721.8	3703.3	3700.9	3707.3	3707.3	3639.9	3555.5
20°	3986.0	3993.3	3980.4	3951.5	3914.6	3887.2	3868.0	3880.8	3880.0	3799.7	3680.0
22.5°	4201.3	4218.1	4198.9	4161.9	4118.6	4088.0	4054.3	4065.5	4066.3	3967.6	3802.1
25°	4480.0	4464.7	4452.7	4400.5	4338.6	4307.3	4276.0	4287.2	4284.0	4148.3	3928.2
27.5°	4726.5	4729.8	4713.7	4658.3	4586.8	4517.7	4516.1	4523.3	4511.3	4336.2	4047.1
30°	5013.3	5014.9	4992.4	4942.6	4864.7	4775.5	4754.6	4766.7	4741.0	4514.5	4172.4
32.5°	5298.4	5306.4	5281.5	5221.3	5158.6	5050.2	5008.4	5016.5	4952.2	4696.8	4301.7
35°	5548.2	5559.4	5551.4	5511.2	5442.9	5349.8	5300.0	5295.2	5215.7	4920.1	4472.7
37.5°	5802.8	5813.2	5804.4	5770.6	5743.3	5644.5	5618.0	5618.0	5479.9	5148.2	4690.4
40°	6064.6	6080.6	6070.2	6023.6	6000.3	5955.4	5891.9	5876.6	5727.3	5422.1	5045.4
42.5°	6307.9	6328.8	6370.6	6343.3	6295.9	6302.3	6174.6	6166.6	6057.4	5826.9	5491.1
45°	6653.3	6683.8	6754.5	6733.6	6724.0	6688.6	6536.8	6529.6	6487.8	6371.4	6044.5
47.5°	7030.0	7071.7	7199.4	7203.5	7307.1	7240.4	7034.0	7009.1	7018.7	7023.5	6720.0
50°	7376.9	7422.7	7632.3	7731.1	7975.3	7989.7	7659.6	7637.2	7674.9	7785.7	7507.0
52.5°	7654.0	7711.8	7973.7	8278.9	8697.3	8816.2	8429.9	8413.0	8441.1	8632.3	8396.9
55°	7857.2	7919.9	8205.0	8760.8	9429.0	9638.6	9316.5	9300.5	9318.1	9561.5	9364.7
57.5°	7904.6	7919.9	8333.5	9085.2	10046.6	10550.2	10401.6	10369.5	10282.7	10494.8	10432.9
60°	7682.1	7743.2	8227.5	9199.3	10524.5	11448.9	11535.6	11495.5	11252.1	11425.6	11375.8
62.5°	7230.8	7340.0	7831.5	9025.8	10711.6	12183.0	12648.0	12599.8	12180.6	12293.0	12053.7
65°	6493.5	6540.1	7056.5	8427.5	10473.9	12652.8	13639.9	13615.8	13088.1	12912.2	12179.0
67.5°	5174.7	5262.2	5700.8	7176.9	9501.3	12597.4	14406.9	14404.5	13680.9	13141.9	11734.8
69°	4088.0	4178.8	4596.4	5912.0	8407.4	12090.6	14535.4	14563.5	13847.9	13002.2	11100.3
70°	3259.2	3364.4	3651.1	4979.5	7436.4	11422.4	14428.6	14479.2	13815.8	12771.7	10514.8
72.5°	1387.0	1472.2	1676.2	2566.9	4532.2	8529.5	13192.5	13383.7	13071.3	11689.0	8690.1
75°	605.6	632.1	724.4	1046.5	2011.9	4642.2	10334.9	10688.3	11176.6	9880.4	6473.4
77.5°	443.3	454.6	505.2	614.4	902.7	1753.3	6646.1	6851.7	8060.4	7189.8	3970.8
80°	342.9	351.0	390.3	451.4	589.5	709.2	3031.1	3207.8	4532.2	3692.9	1653.7
82.5°	273.1	278.7	306.0	332.5	407.2	429.7	1006.3	1116.4	1673.0	1020.0	437.7
85°	253.8	260.2	269.9	242.6	261.0	252.2	435.3	455.4	505.2	400.8	183.1
87.5°	114.9	135.7	267.4	188.7	138.9	110.8	178.3	186.3	209.6	210.4	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°	3048.0	3048.0	3048.0	3048.0	3048.0	3048.0	3048.0	3048.0	3048.0	3048.0	3048.0
2.5°	3055.2	3052.8	3056.8	3047.2	3059.2	3058.4	3054.4	3056.0	3064.0	3063.2	3064.0
5°	3073.7	3072.0	3076.9	3069.6	3084.1	3088.9	3089.7	3096.9	3105.8	3108.2	3108.2
7.5°	3120.2	3120.2	3122.6	3113.0	3122.6	3121.8	3117.8	3125.1	3133.9	3134.7	3133.9
10°	3200.6	3201.4	3197.3	3172.4	3164.4	3142.7	3122.6	3123.5	3134.7	3143.5	3145.9
12.5°	3301.7	3298.5	3280.9	3235.1	3201.4	3157.2	3136.3	3135.5	3146.7	3154.0	3156.4
15°	3417.4	3408.6	3362.8	3288.1	3228.7	3185.3	3151.6	3143.5	3137.1	3129.1	3129.9
17.5°	3526.6	3506.6	3430.3	3326.6	3264.0	3206.2	3141.1	3088.9	3052.8	3031.9	3025.5
20°	3637.5	3598.1	3488.1	3362.8	3283.3	3178.1	3052.8	2946.8	2880.9	2850.4	2844.8
22.5°	3738.7	3675.2	3541.9	3400.5	3268.0	3083.3	2886.5	2732.3	2640.8	2599.8	2603.0
25°	3837.5	3749.1	3598.1	3427.0	3190.9	2916.2	2655.2	2465.7	2359.7	2313.9	2312.3
27.5°	3924.2	3823.8	3659.2	3405.4	3047.2	2678.5	2381.3	2196.6	2108.3	2068.9	2062.5
30°	4023.8	3917.8	3740.3	3322.6	2836.7	2403.8	2113.9	1983.8	1921.1	1881.8	1874.6
32.5°	4145.1	4045.5	3806.9	3172.4	2567.7	2117.1	1905.1	1814.3	1757.3	1713.1	1705.1
35°	4321.8	4214.1	3823.8	2957.2	2272.1	1890.6	1751.7	1658.5	1581.4	1524.4	1518.8
37.5°	4543.4	4425.4	3785.2	2678.5	1985.4	1743.6	1624.0	1509.1	1408.7	1328.4	1315.6
40°	4863.1	4684.8	3678.4	2357.2	1774.2	1630.4	1499.5	1368.6	1244.1	1150.1	1131.6
42.5°	5247.0	4989.2	3514.6	2037.6	1619.2	1515.5	1375.8	1213.6	1094.7	1028.0	1018.4
45°	5735.3	5305.6	3287.3	1758.1	1466.6	1400.7	1242.5	1093.1	1019.2	970.2	962.2
47.5°	6292.7	5660.6	3048.8	1530.8	1337.2	1293.1	1135.7	1039.3	980.6	942.1	934.9
50°	6977.8	6061.4	2795.8	1344.5	1207.1	1163.8	1085.1	1009.6	963.0	933.3	926.0
52.5°	7750.4	6513.5	2613.5	1197.5	1099.5	1068.2	1058.6	993.5	955.7	933.3	926.0
55°	8582.5	6973.8	2416.7	1073.8	1006.3	1015.2	1040.9	995.1	969.4	942.1	931.7
57.5°	9415.3	7449.2	2197.4	969.4	932.5	975.8	1028.8	998.3	976.6	950.1	940.5
60°	10073.9	7750.4	1857.7	881.9	873.8	932.5	999.9	974.2	946.1	946.9	945.3
62.5°	10381.5	7734.3	1482.6	804.0	815.2	873.8	953.3	936.5	913.2	944.5	946.9
65°	10208.8	7348.8	1154.1	733.3	752.6	812.8	905.2	918.0	926.0	986.3	994.3
67.5°	9484.4	6598.7	893.9	671.4	695.5	771.0	910.0	999.9	1010.4	1073.8	1073.0
69°	8735.1	5895.1	776.6	639.3	667.4	781.5	972.6	1052.1	1012.8	1080.2	1070.6
70°	8107.0	5338.5	714.0	617.6	654.6	799.9	1014.4	1051.3	1000.7	1058.6	1042.5
72.5°	6243.7	3840.7	605.6	577.5	611.2	765.4	1026.4	1028.0	972.6	983.9	956.6
75°	4282.4	2427.1	528.5	522.9	545.3	689.9	987.9	982.3	899.5	883.5	861.0
77.5°	2361.3	1232.8	449.0	470.6	485.9	611.2	897.9	889.9	821.6	787.9	779.9
80°	910.8	539.7	379.1	418.4	428.1	529.3	787.1	779.9	722.8	679.5	667.4
82.5°	343.7	282.7	313.2	362.2	359.0	436.9	666.6	662.6	607.2	543.7	524.5
85°	159.0	169.5	248.2	298.8	275.5	323.7	533.3	540.5	473.1	397.6	397.6
87.5°	67.5	94.8	175.9	225.7	185.5	218.5	391.1	373.5	342.9	237.7	223.3
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)