

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: P322481

Luminaire Tested: **GAN-SA7B-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322481
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24005 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

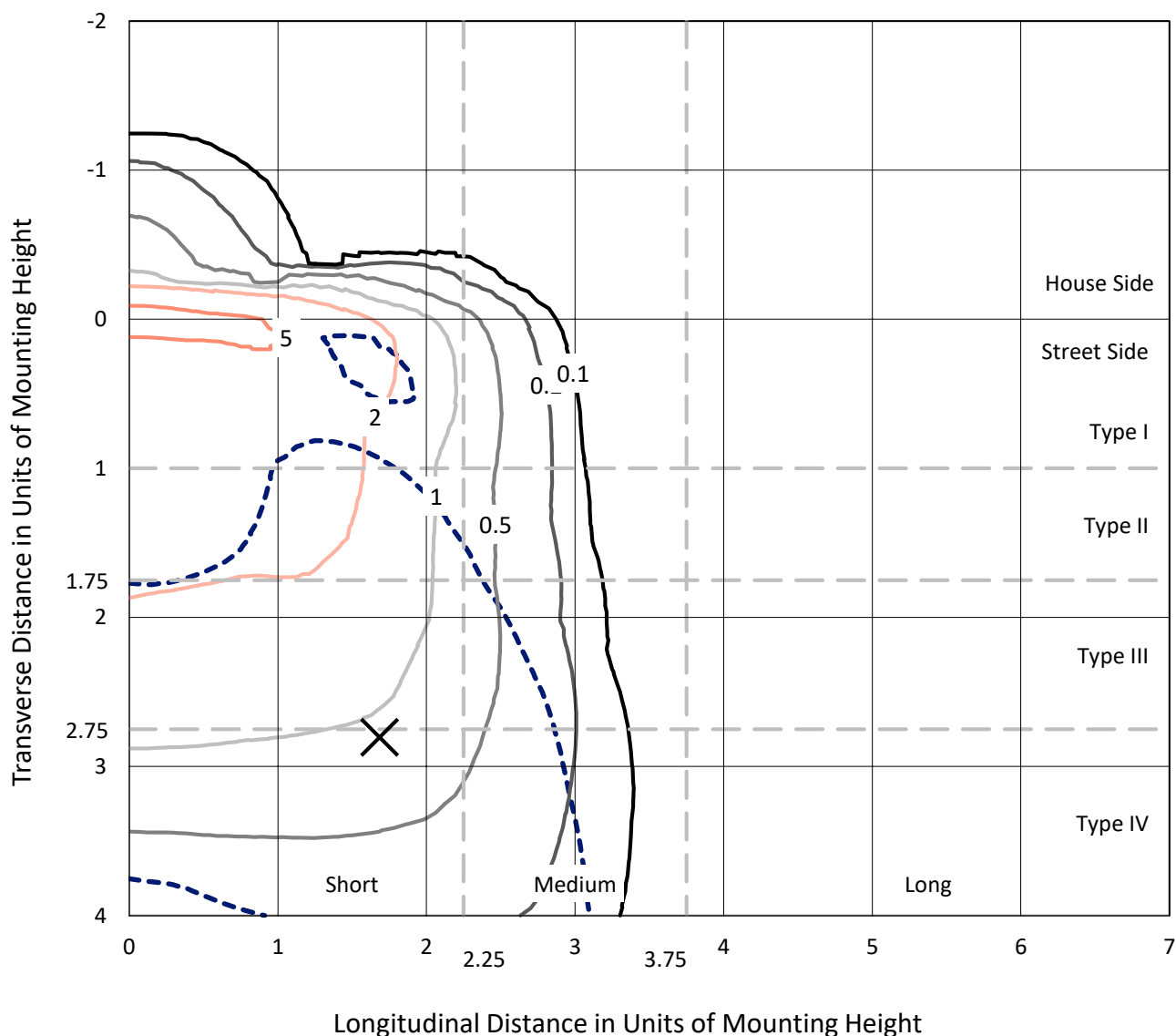
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

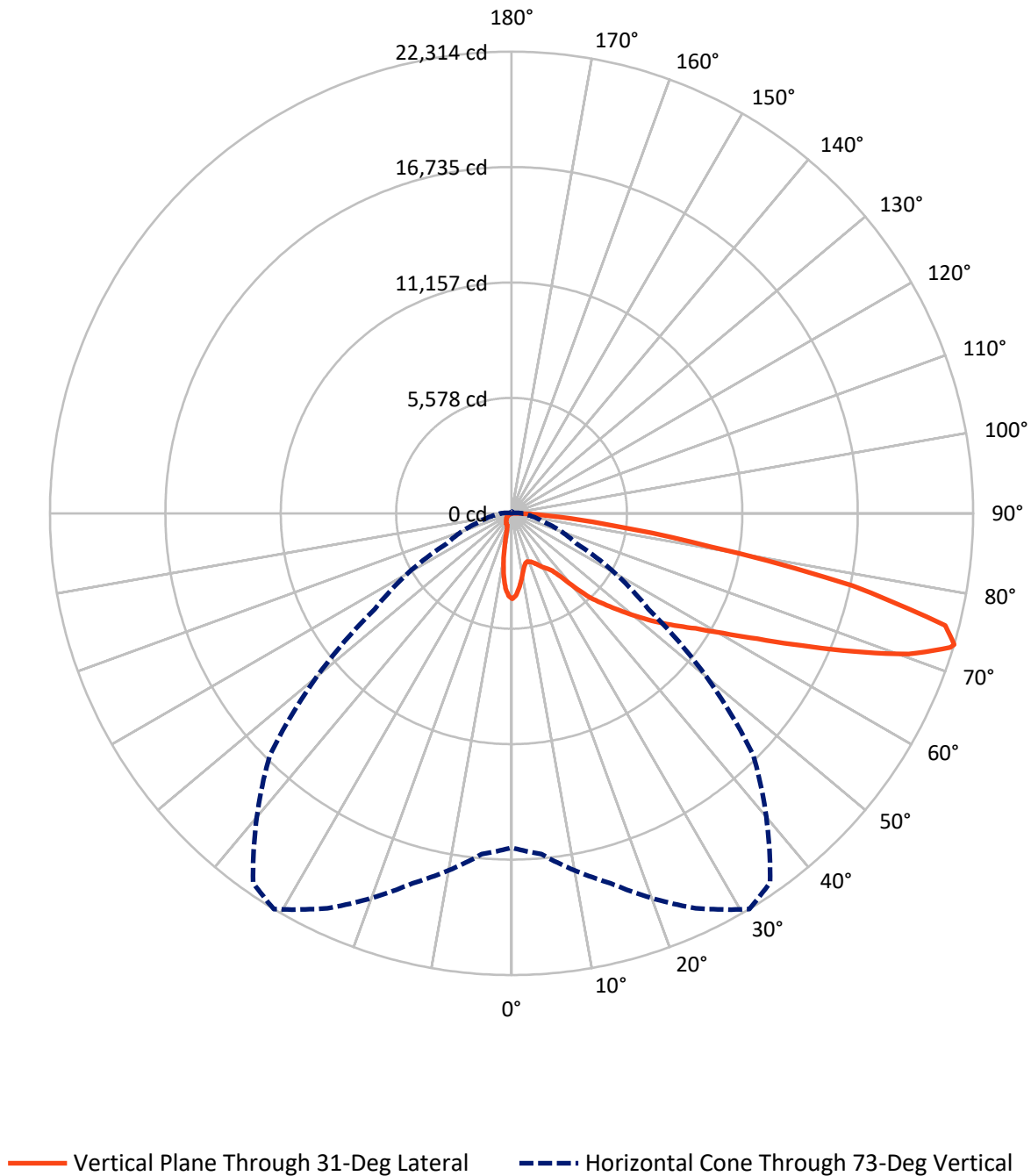
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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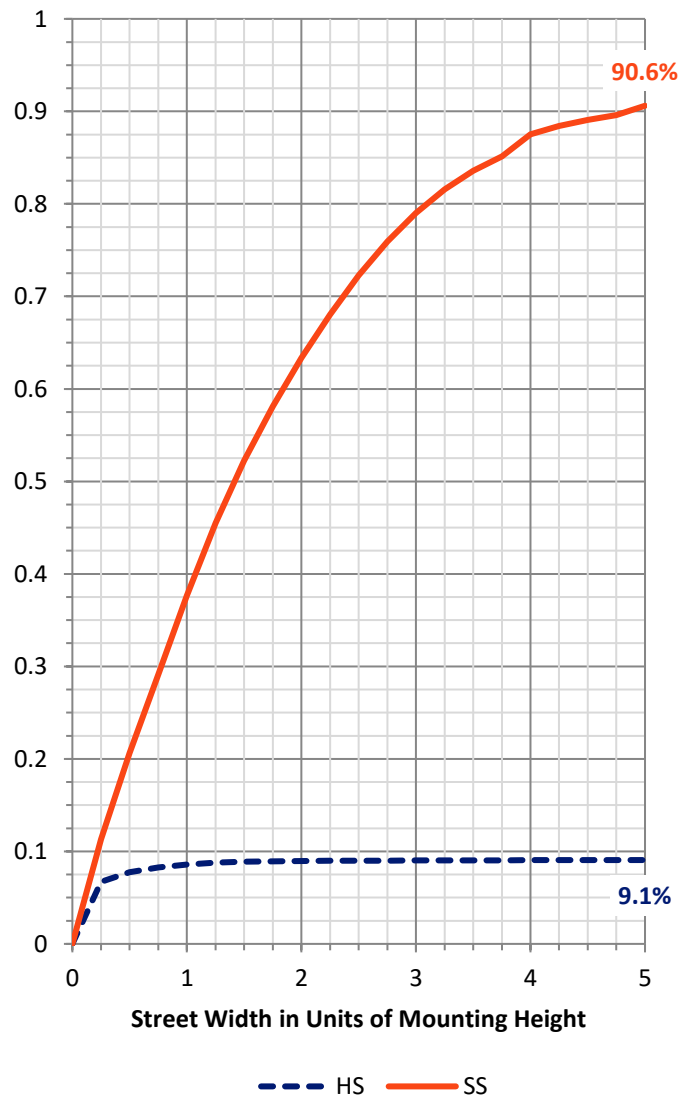
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2188.1	0.0	2188.1
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	21816.9	0.0	21816.9
	% Fixture	90.9	0.0	90.9
Total	Lumens	24005.0	0.0	24005.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.4	1.4
10°-20°	743.5	3.1
20°-30°	1114.0	4.6
30°-40°	1772.4	7.4
40°-50°	3165.1	13.2
50°-60°	4911.3	20.5
60°-70°	6528.9	27.2
70°-80°	4911.1	20.5
80°-90°	516.0	2.1
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°	24005.0	100.0
0°-180°	24005.0	100.0

Coefficient of Utilization



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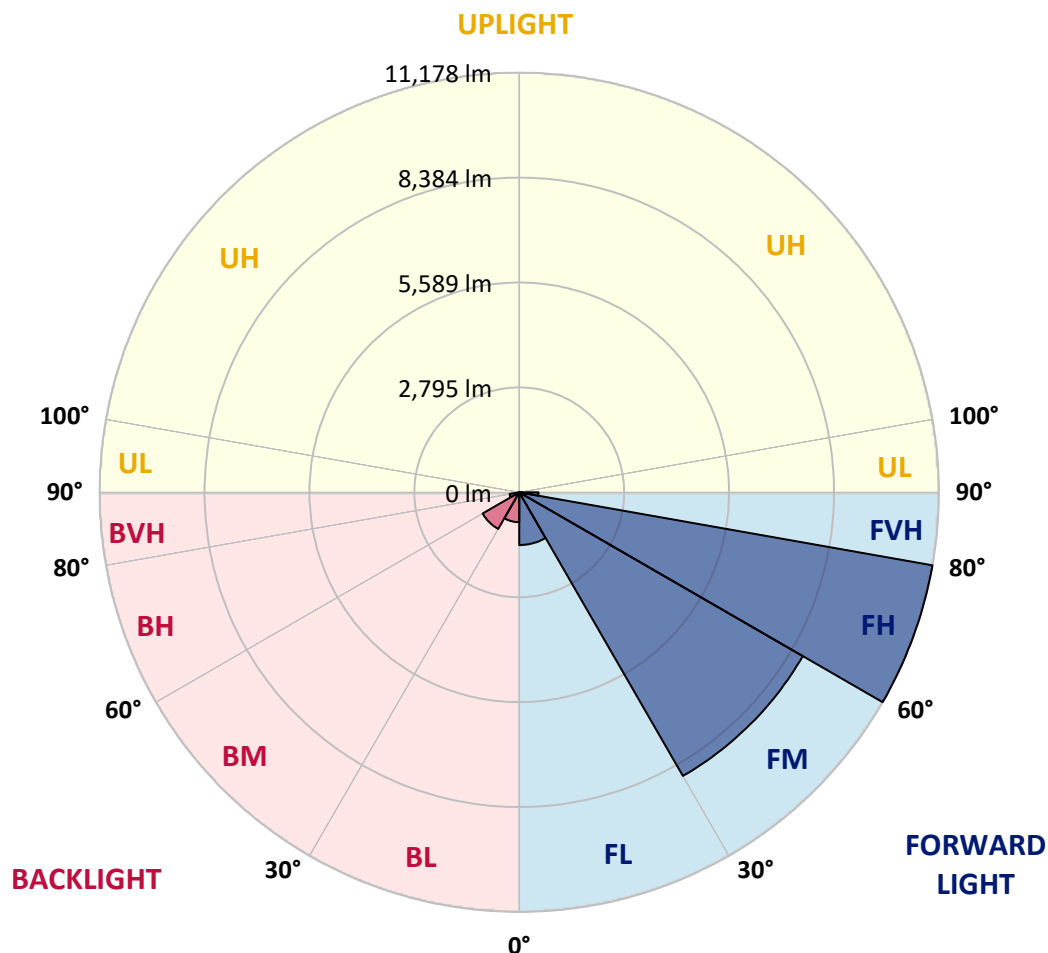
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1404.3	5.9			
FM	(30°-60°)	8722.6	36.3			
FH	(60°-80°)	11178.2	46.6			G4/12000
FVH	(80°-90°)	511.7	2.1			G4/750
BL	(0°-30°)	795.7	3.3	B2/1000		
BM	(30°-60°)	1126.3	4.7	B2/2500		
BH	(60°-80°)	261.8	1.1	B1/500		G1/500
BVH	(80°-90°)	4.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1
2.5°	3914.0	3930.4	3948.0	3951.6	3980.9	3982.1	4024.4	4056.1	4087.8	4118.4	4128.9
5°	3512.2	3539.3	3571.0	3602.7	3664.9	3689.6	3793.0	3898.7	3999.7	4096.0	4143.0
7.5°	3083.5	3114.0	3158.7	3237.4	3306.7	3354.8	3518.1	3706.1	3894.0	4071.4	4173.6
10°	2692.3	2720.5	2767.5	2850.9	2957.8	3023.6	3243.2	3504.0	3780.1	4049.1	4219.4
12.5°	2443.3	2458.6	2484.4	2573.7	2670.0	2744.0	3002.4	3325.5	3686.1	4047.9	4293.4
15°	2397.5	2402.2	2381.0	2421.0	2496.2	2567.8	2829.8	3181.0	3614.4	4066.7	4389.7
17.5°	2470.3	2468.0	2397.5	2392.8	2452.7	2511.4	2745.2	3081.1	3563.9	4110.1	4514.2
20°	2580.7	2572.5	2450.3	2428.0	2491.5	2546.7	2739.3	3043.5	3545.1	4183.0	4665.8
22.5°	2727.6	2713.5	2522.0	2498.5	2566.6	2624.2	2812.1	3080.0	3561.6	4280.5	4842.0
25°	2909.6	2888.5	2645.3	2619.5	2688.8	2746.4	2942.5	3184.5	3610.9	4399.1	5065.1
27.5°	3115.2	3084.7	2842.7	2775.7	2854.4	2914.3	3116.4	3344.3	3688.4	4524.8	5338.8
30°	3309.0	3269.1	3050.6	2940.2	3036.5	3103.5	3304.3	3534.6	3813.0	4718.6	5713.6
32.5°	3504.0	3459.4	3236.2	3104.6	3191.6	3264.4	3498.1	3796.5	4046.7	5014.6	6211.6
35°	3952.7	3905.7	3632.1	3414.7	3413.6	3454.7	3769.5	4154.8	4355.6	5426.9	6806.0
37.5°	4708.0	4681.0	4420.3	4007.9	3897.5	3851.7	4139.5	4582.4	4799.7	5994.3	7476.7
40°	5535.0	5511.5	5219.0	4845.5	4677.5	4564.7	4670.5	5177.9	5426.9	6687.3	8161.5
42.5°	6468.9	6357.3	5835.7	5724.1	5573.8	5488.0	5392.9	5912.1	6197.5	7441.5	8840.5
45°	7317.0	7129.0	6452.4	6283.3	6249.2	6270.3	6323.2	6898.8	7064.4	8337.7	9517.1
47.5°	7822.1	7674.1	7154.9	6992.8	6983.4	7123.1	7522.5	8013.5	7927.8	9118.9	10112.7
50°	8302.5	8168.6	7737.5	7777.4	7820.9	8011.2	8884.0	9160.0	8716.0	9827.2	10658.9
52.5°	8691.3	8486.9	8261.4	8485.8	8699.5	9006.1	10288.9	10189.0	9275.1	10391.1	11126.4
55°	8915.7	8822.9	8932.1	9157.7	9559.4	10057.5	11615.1	11045.3	9683.9	10905.6	11437.7
57.5°	9737.9	9555.9	9773.2	9968.2	10492.1	11188.6	12750.9	11683.2	9978.7	11223.9	11509.3
60°	10732.9	10586.0	10714.1	11038.3	11745.4	12564.2	13812.8	12203.6	10132.6	11428.3	11323.7
62.5°	12316.3	12122.5	12042.6	12405.6	13343.0	14236.9	14618.7	12564.2	10098.6	11337.8	10687.1
65°	14437.8	14236.9	13879.8	14208.7	15401.0	16031.8	15519.6	12640.5	9863.6	10606.0	9077.8
67.5°	16610.9	16465.2	16159.8	16714.3	17790.2	17993.5	16472.3	12454.9	9107.1	8599.7	6413.7
70°	18046.3	17984.1	18182.6	19408.9	20368.6	20309.9	17346.2	11457.6	7098.5	5288.3	3172.8
72.5°	17011.4	17309.8	18775.8	20999.4	22171.7	21692.5	16897.5	8798.2	4057.3	2034.5	917.4
73°	16153.9	16535.7	18509.1	21059.3	22313.9	21788.8	16520.4	8075.8	3458.2	1605.8	695.4
75°	11238.0	11706.7	15323.5	19613.3	21649.0	20759.8	13770.6	4943.0	1602.2	711.8	280.7
77.5°	5456.3	5802.8	8437.6	14171.1	16836.4	16219.7	8572.7	1841.9	723.6	445.2	129.2
80°	2036.9	2264.7	3662.6	7212.4	9729.7	9984.6	3770.7	696.6	481.6	358.3	65.8
82.5°	533.3	594.4	1350.9	3216.2	4986.4	5219.0	1188.8	351.2	352.4	294.8	39.9
85°	170.3	195.0	421.7	1443.7	2349.3	2062.7	310.1	170.3	256.1	219.7	22.3
87.5°	21.1	27.0	133.9	339.5	518.0	287.8	48.2	50.5	109.2	122.2	12.9
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°	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1	4130.1
2.5°	4139.5	4133.6	4134.8	4104.3	4084.3	4044.4	4003.2	3984.5	3964.5	3956.3	3964.5
5°	4160.7	4150.1	4119.5	4025.6	3925.7	3796.5	3675.5	3583.9	3468.8	3437.1	3469.9
7.5°	4193.5	4172.4	4083.1	3891.7	3669.6	3423.0	3145.7	2943.7	2778.1	2671.2	2709.9
10°	4241.7	4201.8	4022.0	3696.7	3299.6	2862.6	2469.1	2162.6	1945.2	1856.0	1852.4
12.5°	4322.8	4247.6	3946.9	3442.9	2847.4	2264.7	1749.1	1416.6	1240.4	1126.5	1124.2
15°	4412.0	4301.6	3851.7	3138.7	2321.1	1622.2	1126.5	873.9	760.0	723.6	718.9
17.5°	4521.3	4363.9	3728.4	2764.0	1770.2	1074.8	735.3	662.5	657.8	654.3	654.3
20°	4658.7	4437.9	3569.8	2335.2	1255.7	717.7	624.9	629.6	632.0	627.3	628.4
22.5°	4818.5	4513.0	3380.7	1874.8	849.3	600.3	597.9	603.8	606.1	603.8	605.0
25°	5004.1	4600.0	3150.4	1392.0	613.2	569.7	575.6	583.8	589.7	589.7	589.7
27.5°	5234.3	4705.7	2873.2	971.4	529.8	538.0	554.4	569.7	577.9	580.3	580.3
30°	5533.8	4837.3	2540.8	666.0	481.6	495.7	526.2	555.6	570.9	573.2	574.4
32.5°	5912.1	4985.3	2155.5	492.2	440.5	451.1	484.0	533.3	562.7	567.4	567.4
35°	6345.5	5156.8	1740.8	428.8	411.1	414.7	440.5	496.9	548.6	561.5	562.7
37.5°	6820.1	5325.9	1323.8	400.6	386.5	386.5	405.3	453.4	514.5	554.4	559.1
40°	7262.9	5428.1	928.0	378.2	364.1	364.1	380.6	415.8	473.4	533.3	546.2
42.5°	7671.7	5463.4	646.1	357.1	343.0	346.5	360.6	388.8	432.3	492.2	503.9
45°	8092.2	5457.5	471.0	332.4	321.9	332.4	343.0	364.1	395.9	429.9	432.3
47.5°	8409.4	5408.1	373.5	308.9	301.9	316.0	325.4	339.5	357.1	354.7	354.7
50°	8706.6	5288.3	300.7	277.2	281.9	298.4	303.1	307.8	308.9	286.6	284.3
52.5°	8932.1	5101.6	240.8	243.2	261.9	278.4	273.7	266.6	254.9	227.9	223.2
55°	9007.3	4742.1	189.1	200.9	232.6	253.7	236.1	220.8	198.5	176.2	171.5
57.5°	8871.0	4278.1	153.9	156.2	196.2	213.8	193.8	176.2	151.5	132.7	129.2
60°	8582.1	3762.4	126.9	117.5	151.5	166.8	153.9	136.3	113.9	99.8	98.7
62.5°	8008.8	3212.7	104.5	91.6	115.1	128.0	119.8	106.9	88.1	78.7	77.5
65°	6803.6	2570.2	84.6	74.0	89.3	99.8	92.8	83.4	69.3	62.3	61.1
67.5°	4749.2	1737.3	69.3	61.1	70.5	78.7	72.8	68.1	55.2	54.0	55.2
70°	2290.6	837.5	57.6	49.3	55.2	61.1	58.7	55.2	52.9	61.1	70.5
72.5°	656.6	280.7	45.8	41.1	44.6	48.2	50.5	49.3	57.6	74.0	85.8
73°	505.1	226.7	43.5	38.8	42.3	47.0	49.3	48.2	58.7	75.2	85.8
75°	216.1	109.2	32.9	31.7	35.2	41.1	43.5	43.5	58.7	76.4	82.2
77.5°	97.5	58.7	21.1	24.7	30.5	32.9	36.4	36.4	47.0	58.7	58.7
80°	55.2	31.7	16.4	18.8	22.3	22.3	22.3	20.0	21.1	23.5	25.8
82.5°	35.2	21.1	12.9	15.3	14.1	11.7	9.4	9.4	8.2	9.4	11.7
85°	20.0	11.7	11.7	9.4	5.9	4.7	5.9	4.7	1.2	0.0	1.2
87.5°	11.7	7.0	3.5	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)