

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: P322682

Luminaire Tested: **GAN-SA8B-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322682
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-SA8B-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 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: 23909 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

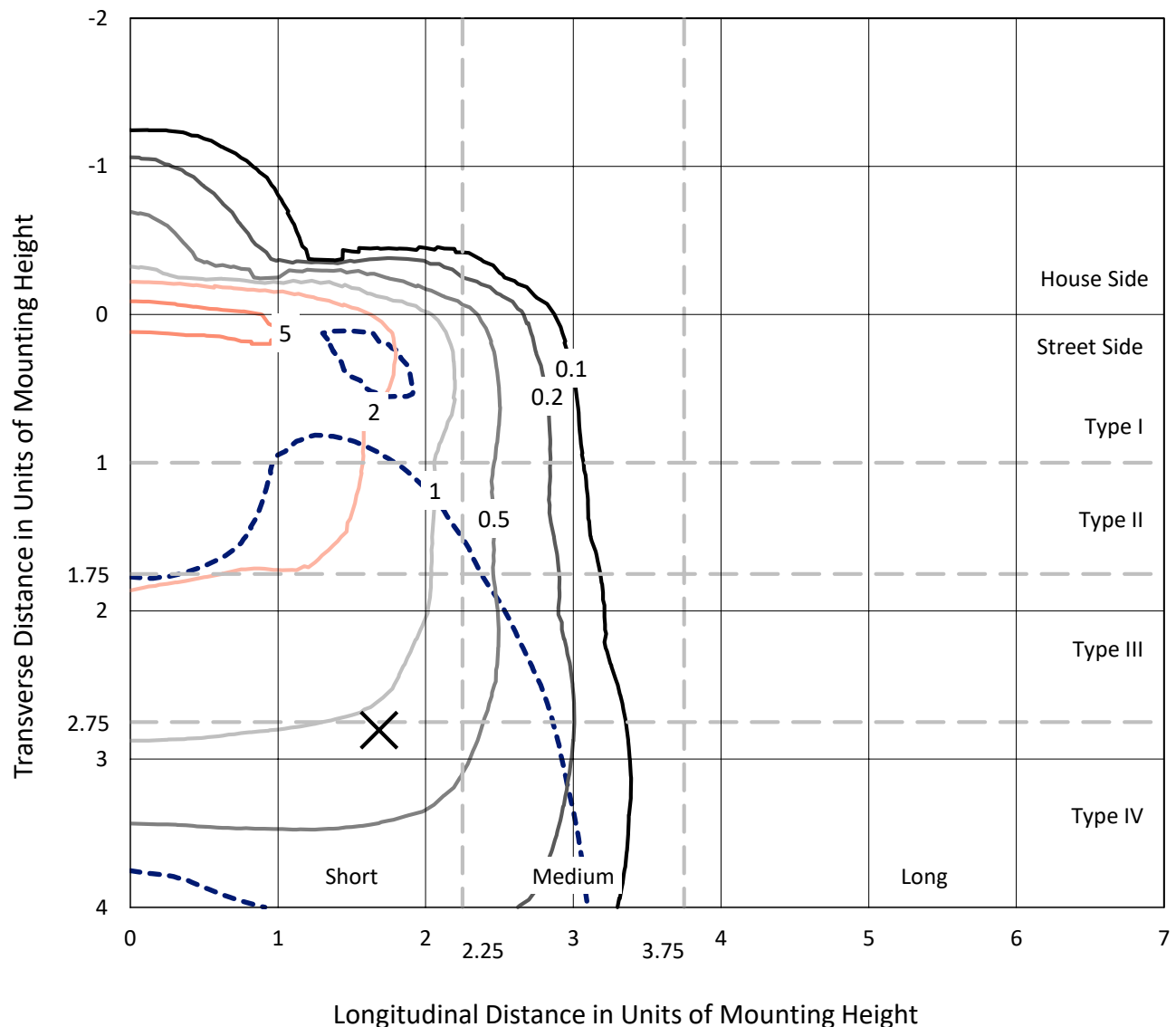
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

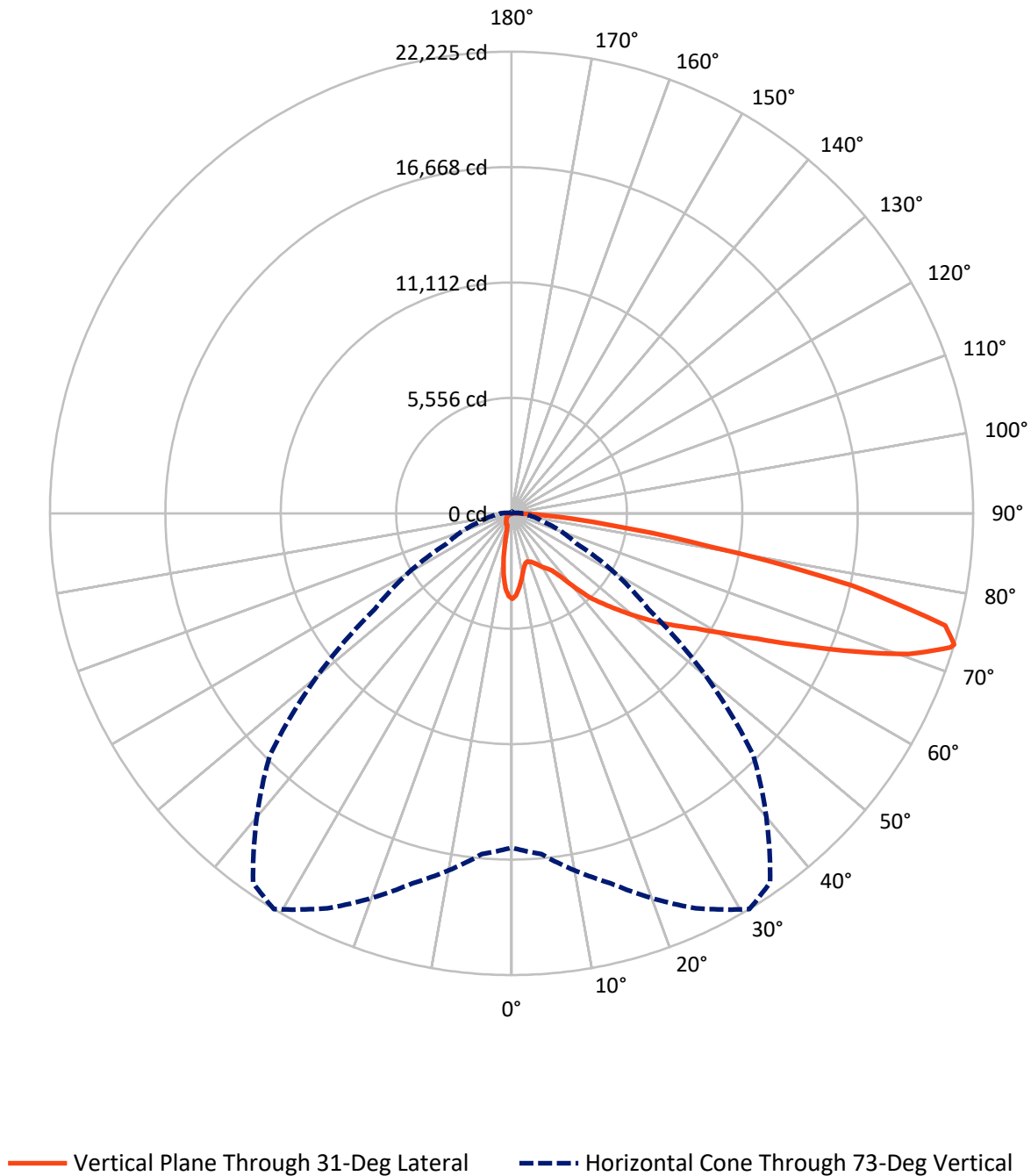
× Max cd
 - - - 1/2 Max cd



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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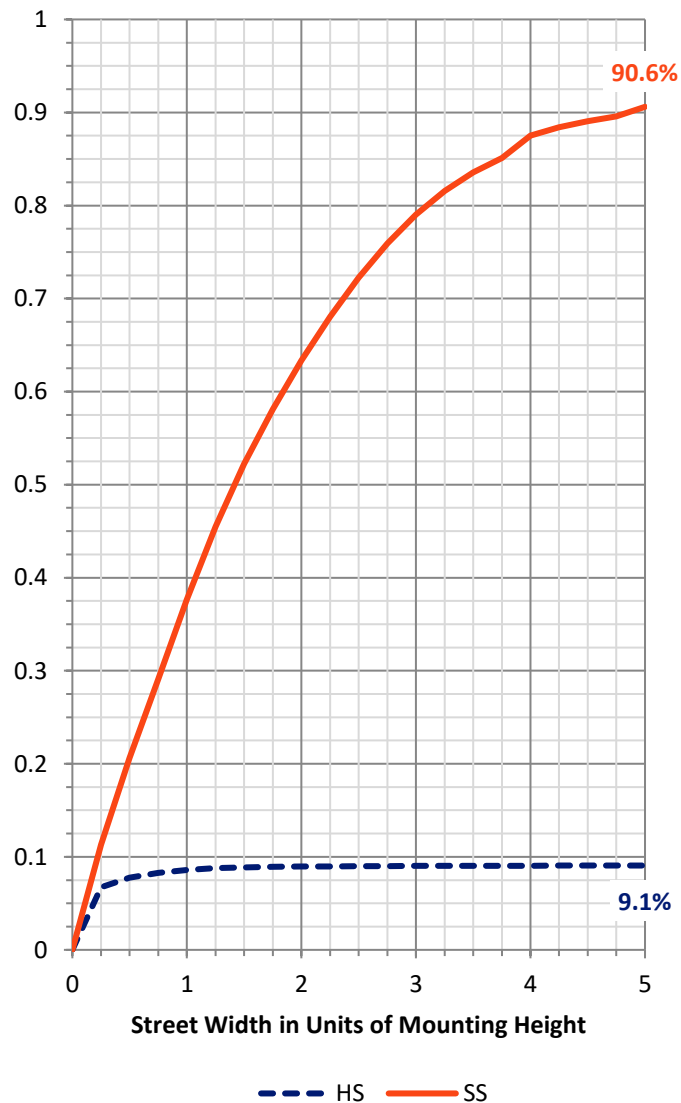
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2179.4	0.0	2179.4
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	21729.6	0.0	21729.6
	% Fixture	90.9	0.0	90.9
Total	Lumens	23909.0	0.0	23909.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.1	1.4
10°-20°	740.6	3.1
20°-30°	1109.6	4.6
30°-40°	1765.4	7.4
40°-50°	3152.4	13.2
50°-60°	4891.7	20.5
60°-70°	6502.8	27.2
70°-80°	4891.5	20.5
80°-90°	514.0	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°	23909.0	100.0
0°-180°	23909.0	100.0

Coefficient of Utilization



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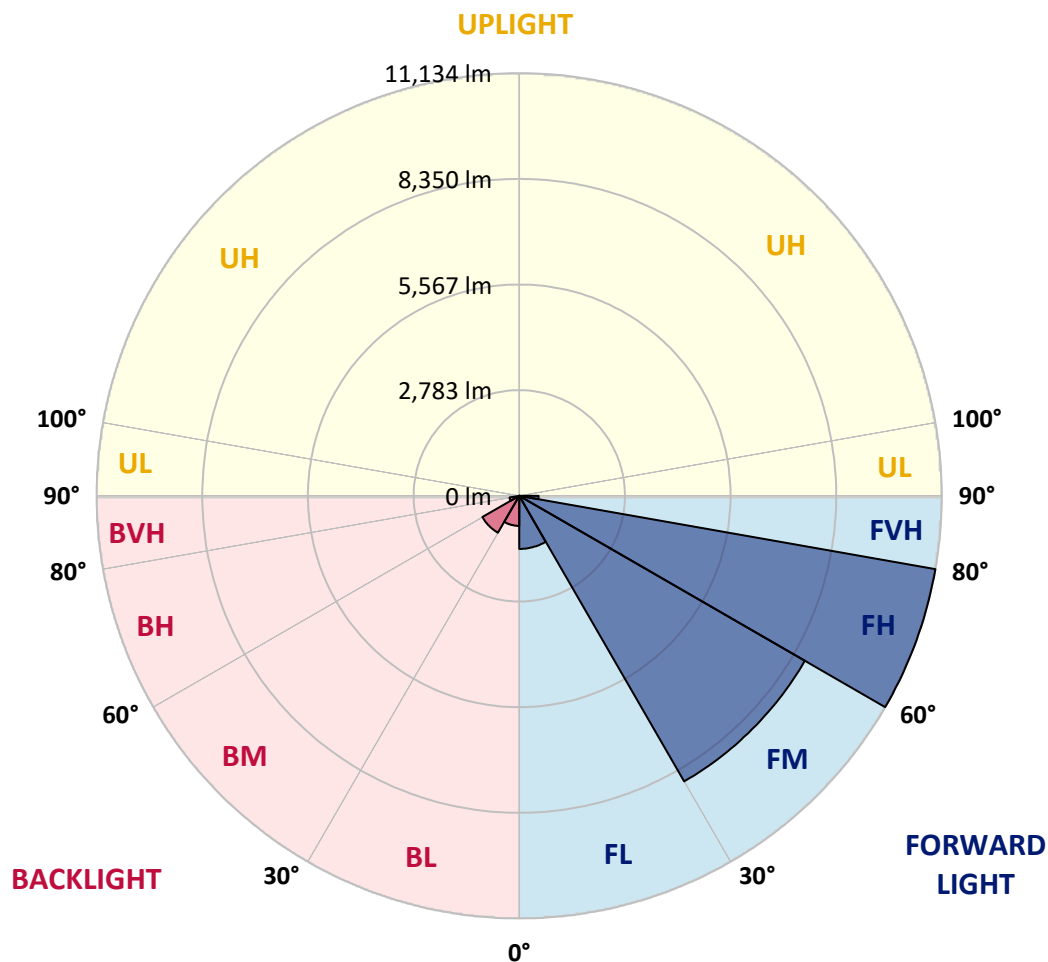
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1398.7	5.9			
FM	(30°-60°)	8687.7	36.3			
FH	(60°-80°)	11133.5	46.6			G4/12000
FVH	(80°-90°)	509.7	2.1			G4/750
BL	(0°-30°)	792.5	3.3	B2/1000		
BM	(30°-60°)	1121.8	4.7	B2/2500		
BH	(60°-80°)	260.8	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°	4113.6	4113.6	4113.6	4113.6	4113.6	4113.6	4113.6	4113.6	4113.6	4113.6	4113.6
2.5°	3898.3	3914.7	3932.2	3935.8	3965.0	3966.2	4008.3	4039.9	4071.5	4101.9	4112.4
5°	3498.2	3525.1	3556.7	3588.3	3650.3	3674.9	3777.8	3883.1	3983.7	4079.7	4126.5
7.5°	3071.2	3101.6	3146.0	3224.4	3293.4	3341.4	3504.0	3691.2	3878.4	4055.1	4156.9
10°	2681.6	2709.6	2756.4	2839.5	2946.0	3011.5	3230.3	3490.0	3764.9	4032.9	4202.5
12.5°	2433.5	2448.7	2474.5	2563.4	2659.3	2733.0	2990.4	3312.2	3671.3	4031.7	4276.2
15°	2387.9	2392.6	2371.5	2411.3	2486.2	2557.5	2818.4	3168.3	3600.0	4050.4	4372.2
17.5°	2460.4	2458.1	2387.9	2383.2	2442.9	2501.4	2734.2	3068.8	3549.7	4093.7	4496.2
20°	2570.4	2562.2	2440.5	2418.3	2481.5	2536.5	2728.4	3031.4	3531.0	4166.2	4647.1
22.5°	2716.7	2702.6	2511.9	2488.5	2556.4	2613.7	2800.9	3067.6	3547.3	4263.3	4822.6
25°	2898.0	2876.9	2634.8	2609.0	2678.0	2735.4	2930.8	3171.8	3596.5	4381.5	5044.9
27.5°	3102.7	3072.3	2831.3	2764.6	2843.0	2902.7	3103.9	3330.9	3673.7	4506.7	5317.5
30°	3295.8	3256.0	3038.4	2928.4	3024.4	3091.0	3291.1	3520.4	3797.7	4699.7	5690.7
32.5°	3490.0	3445.5	3223.3	3092.2	3178.8	3251.3	3484.2	3781.3	4030.5	4994.6	6186.8
35°	3936.9	3890.1	3617.5	3401.1	3399.9	3440.9	3754.4	4138.2	4338.2	5405.2	6778.8
37.5°	4689.2	4662.3	4402.6	3991.9	3881.9	3836.3	4123.0	4564.0	4780.5	5970.3	7446.8
40°	5512.9	5489.5	5198.1	4826.1	4658.8	4546.5	4651.8	5157.2	5405.2	6660.6	8128.9
42.5°	6443.0	6331.8	5812.4	5701.2	5551.5	5466.1	5371.3	5888.4	6172.7	7411.7	8805.1
45°	7287.7	7100.5	6426.6	6258.1	6224.2	6245.3	6297.9	6871.2	7036.2	8304.4	9479.0
47.5°	7790.8	7643.4	7126.2	6964.8	6955.4	7094.7	7492.4	7981.5	7896.1	9082.4	10072.2
50°	8269.3	8135.9	7706.6	7746.3	7789.6	7979.2	8848.4	9123.4	8681.1	9787.9	10616.3
52.5°	8656.6	8453.0	8228.4	8451.8	8664.8	8970.1	10247.7	10148.3	9238.0	10349.5	11081.9
55°	8880.0	8787.6	8896.4	9121.0	9521.2	10017.2	11568.6	11001.2	9645.2	10861.9	11391.9
57.5°	9699.0	9517.7	9734.1	9928.3	10450.1	11143.9	12700.0	11636.5	9938.8	11179.0	11463.3
60°	10690.0	10543.7	10671.2	10994.1	11698.5	12513.9	13757.6	12154.8	10092.1	11382.6	11278.5
62.5°	12267.1	12074.0	11994.5	12356.0	13289.6	14180.0	14560.2	12513.9	10058.2	11292.5	10644.3
65°	14380.0	14180.0	13824.3	14151.9	15339.4	15967.7	15457.6	12590.0	9824.2	10563.6	9041.5
67.5°	16544.5	16399.4	16095.2	16647.4	17719.1	17921.5	16406.4	12405.1	9070.7	8565.3	6388.0
70°	17974.2	17912.1	18109.9	19331.3	20287.2	20228.7	17276.9	11411.8	7070.1	5267.2	3160.1
72.5°	16943.4	17240.6	18700.7	20915.4	22083.1	21605.7	16829.9	8763.0	4041.1	2026.4	913.7
73°	16089.3	16469.6	18435.1	20975.1	22224.6	21701.7	16454.4	8043.5	3444.4	1599.3	692.6
75°	11193.0	11659.9	15262.2	19534.9	21562.4	20676.8	13715.5	4923.2	1595.8	709.0	279.6
77.5°	5434.5	5779.6	8403.8	14114.4	16769.1	16154.9	8538.4	1834.5	720.7	443.4	128.7
80°	2028.7	2255.7	3647.9	7183.6	9690.8	9944.7	3755.6	693.8	479.7	356.8	65.5
82.5°	531.2	592.0	1345.5	3203.4	4966.5	5198.1	1184.0	349.8	351.0	293.7	39.8
85°	169.6	194.2	420.0	1437.9	2339.9	2054.5	308.9	169.6	255.1	218.8	22.2
87.5°	21.1	26.9	133.4	338.1	516.0	286.6	48.0	50.3	108.8	121.7	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°	4113.6	4113.6	4113.6	4113.6	4113.6	4113.6	4113.6	4113.6	4113.6	4113.6	4113.6
2.5°	4123.0	4117.1	4118.3	4087.9	4068.0	4028.2	3987.2	3968.5	3948.6	3940.4	3948.6
5°	4144.0	4133.5	4103.1	4009.5	3910.0	3781.3	3660.8	3569.6	3454.9	3423.3	3456.1
7.5°	4176.8	4155.7	4066.8	3876.1	3655.0	3409.3	3133.2	2931.9	2767.0	2660.5	2699.1
10°	4224.7	4185.0	4006.0	3681.9	3286.4	2851.2	2459.3	2153.9	1937.5	1848.5	1845.0
12.5°	4305.5	4230.6	3931.1	3429.2	2836.0	2255.7	1742.1	1411.0	1235.5	1122.0	1119.7
15°	4394.4	4284.4	3836.3	3126.1	2311.8	1615.7	1122.0	870.5	757.0	720.7	716.0
17.5°	4503.2	4346.4	3713.5	2752.9	1763.1	1070.5	732.4	659.9	655.2	651.7	651.7
20°	4640.1	4420.1	3555.5	2325.9	1250.7	714.8	622.4	627.1	629.4	624.8	625.9
22.5°	4799.2	4495.0	3367.2	1867.3	845.9	597.9	595.5	601.4	603.7	601.4	602.5
25°	4984.0	4581.6	3137.8	1386.4	610.7	567.4	573.3	581.5	587.3	587.3	587.3
27.5°	5213.4	4686.9	2861.7	967.6	527.7	535.8	552.2	567.4	575.6	578.0	578.0
30°	5511.7	4817.9	2530.6	663.4	479.7	493.7	524.1	553.4	568.6	570.9	572.1
32.5°	5888.4	4965.3	2146.9	490.2	438.7	449.3	482.0	531.2	560.4	565.1	565.1
35°	6320.1	5136.1	1733.9	427.0	409.5	413.0	438.7	494.9	546.4	559.2	560.4
37.5°	6792.8	5304.6	1318.5	399.0	384.9	384.9	403.6	451.6	512.4	552.2	556.9
40°	7233.9	5406.4	924.3	376.7	362.7	362.7	379.1	414.2	471.5	531.2	544.0
42.5°	7641.0	5441.5	643.5	355.7	341.6	345.1	359.2	387.3	430.5	490.2	501.9
45°	8059.9	5435.7	469.2	331.1	320.6	331.1	341.6	362.7	394.3	428.2	430.5
47.5°	8375.8	5386.5	372.0	307.7	300.7	314.7	324.1	338.1	355.7	353.3	353.3
50°	8671.8	5267.2	299.5	276.1	280.8	297.2	301.9	306.5	307.7	285.5	283.1
52.5°	8896.4	5081.2	239.8	242.2	260.9	277.3	272.6	265.6	253.9	227.0	222.3
55°	8971.3	4723.1	188.4	200.1	231.7	252.7	235.2	220.0	197.7	175.5	170.8
57.5°	8835.6	4261.0	153.3	155.6	195.4	212.9	193.0	175.5	150.9	132.2	128.7
60°	8547.8	3747.4	126.4	117.0	150.9	166.1	153.3	135.7	113.5	99.4	98.3
62.5°	7976.8	3199.9	104.1	91.3	114.7	127.5	119.3	106.5	87.7	78.4	77.2
65°	6776.4	2559.9	84.2	73.7	88.9	99.4	92.4	83.1	69.0	62.0	60.8
67.5°	4730.2	1730.4	69.0	60.8	70.2	78.4	72.5	67.9	55.0	53.8	55.0
70°	2281.4	834.2	57.3	49.1	55.0	60.8	58.5	55.0	52.6	60.8	70.2
72.5°	654.0	279.6	45.6	40.9	44.5	48.0	50.3	49.1	57.3	73.7	85.4
73°	503.1	225.8	43.3	38.6	42.1	46.8	49.1	48.0	58.5	74.9	85.4
75°	215.3	108.8	32.8	31.6	35.1	40.9	43.3	43.3	58.5	76.0	81.9
77.5°	97.1	58.5	21.1	24.6	30.4	32.8	36.3	36.3	46.8	58.5	58.5
80°	55.0	31.6	16.4	18.7	22.2	22.2	22.2	19.9	21.1	23.4	25.7
82.5°	35.1	21.1	12.9	15.2	14.0	11.7	9.4	9.4	8.2	9.4	11.7
85°	19.9	11.7	11.7	9.4	5.8	4.7	5.8	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)