

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: P322684

Luminaire Tested: **GAN-SA0B-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322684
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-SA0B-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 29529 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

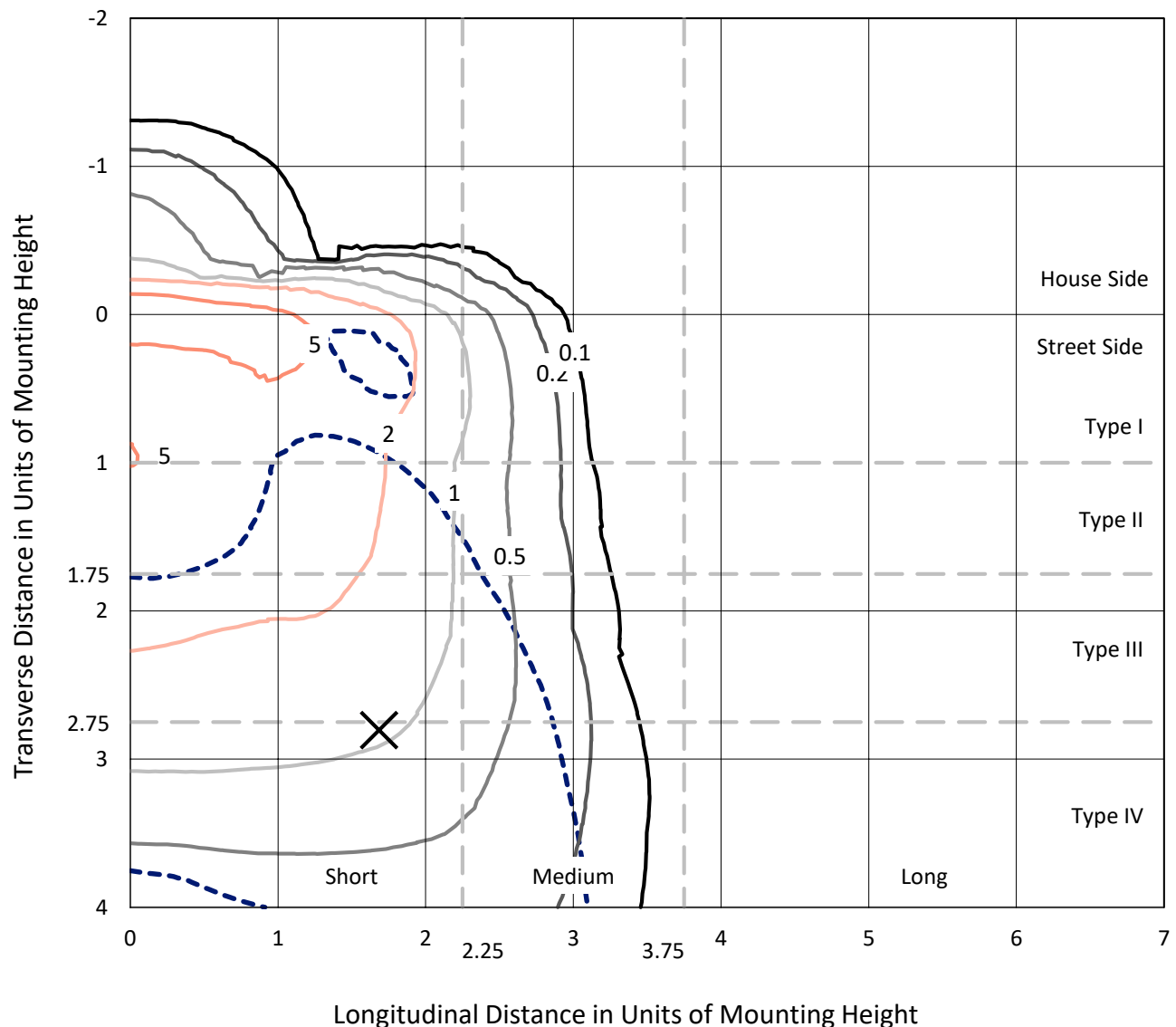
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

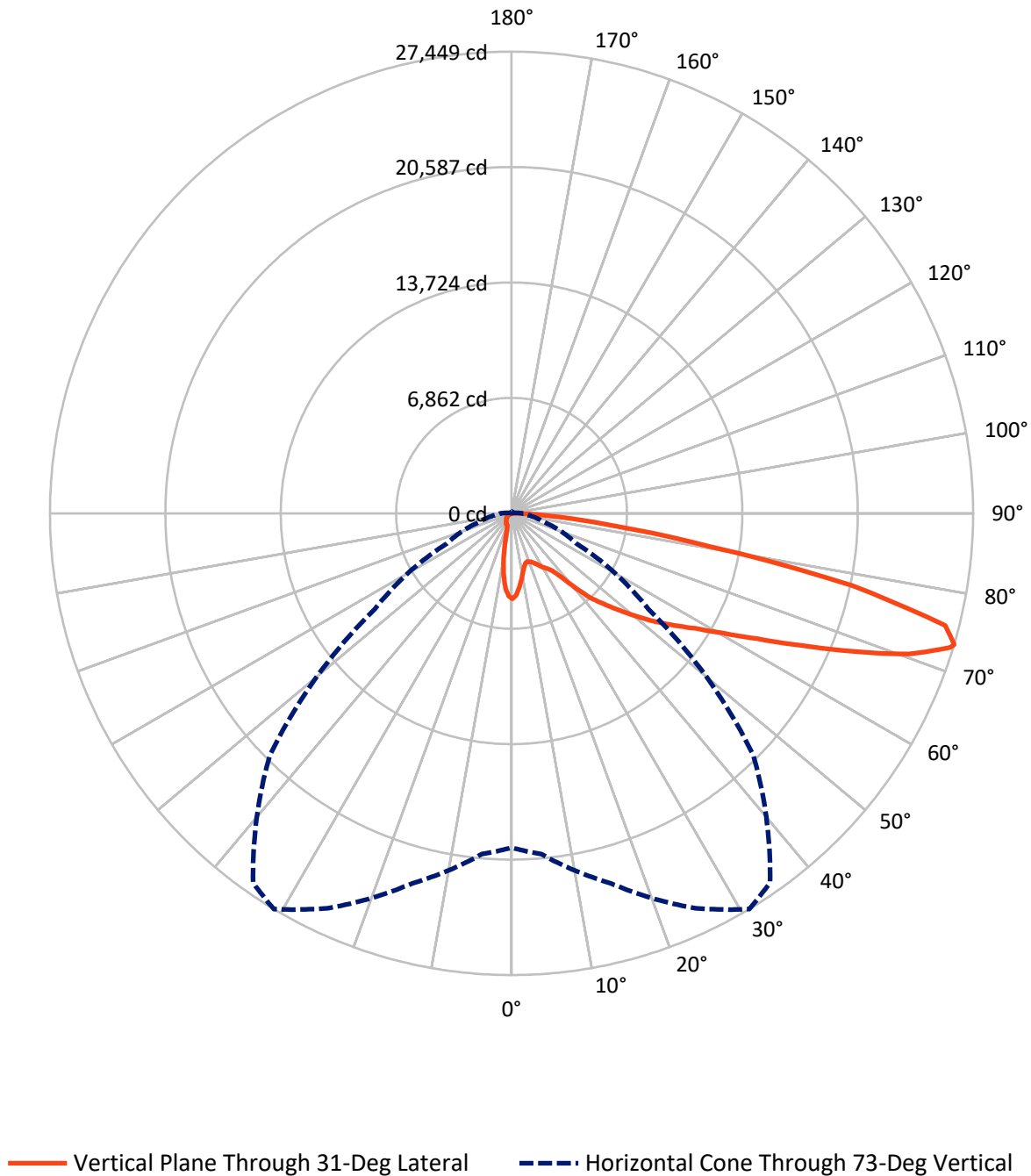
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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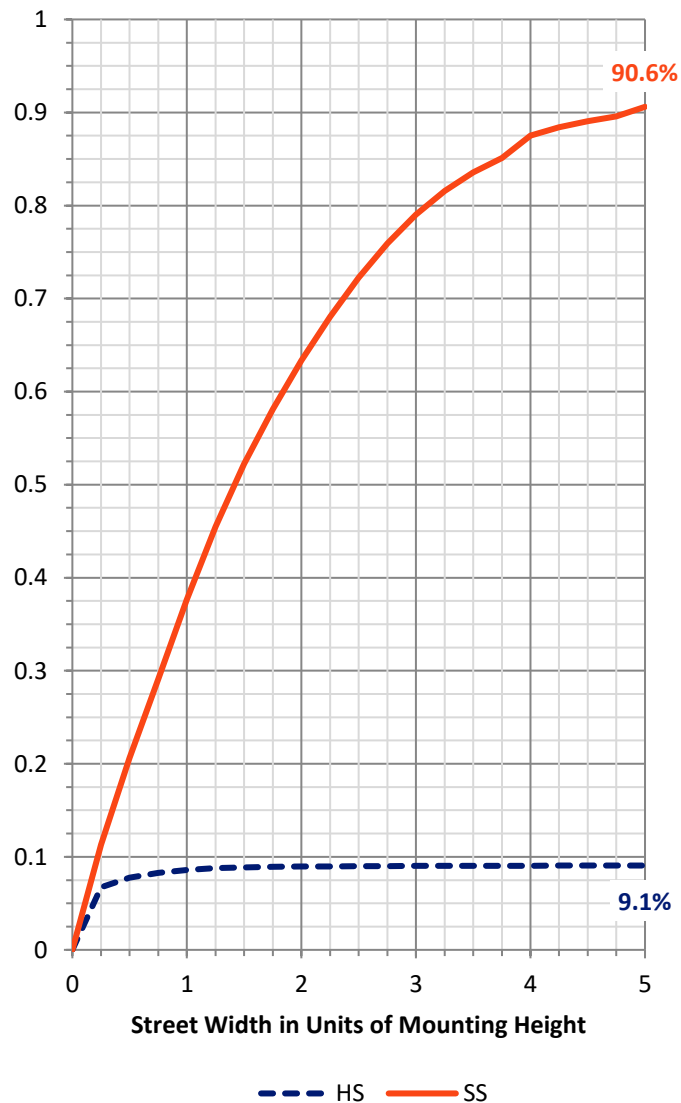
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2691.7	0.0	2691.7
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	26837.3	0.0	26837.3
	% Fixture	90.9	0.0	90.9
Total	Lumens	29529.0	0.0	29529.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.2	1.4
10°-20°	914.6	3.1
20°-30°	1370.4	4.6
30°-40°	2180.3	7.4
40°-50°	3893.5	13.2
50°-60°	6041.5	20.5
60°-70°	8031.4	27.2
70°-80°	6041.2	20.5
80°-90°	634.8	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°	29529.0	100.0
0°-180°	29529.0	100.0

Coefficient of Utilization



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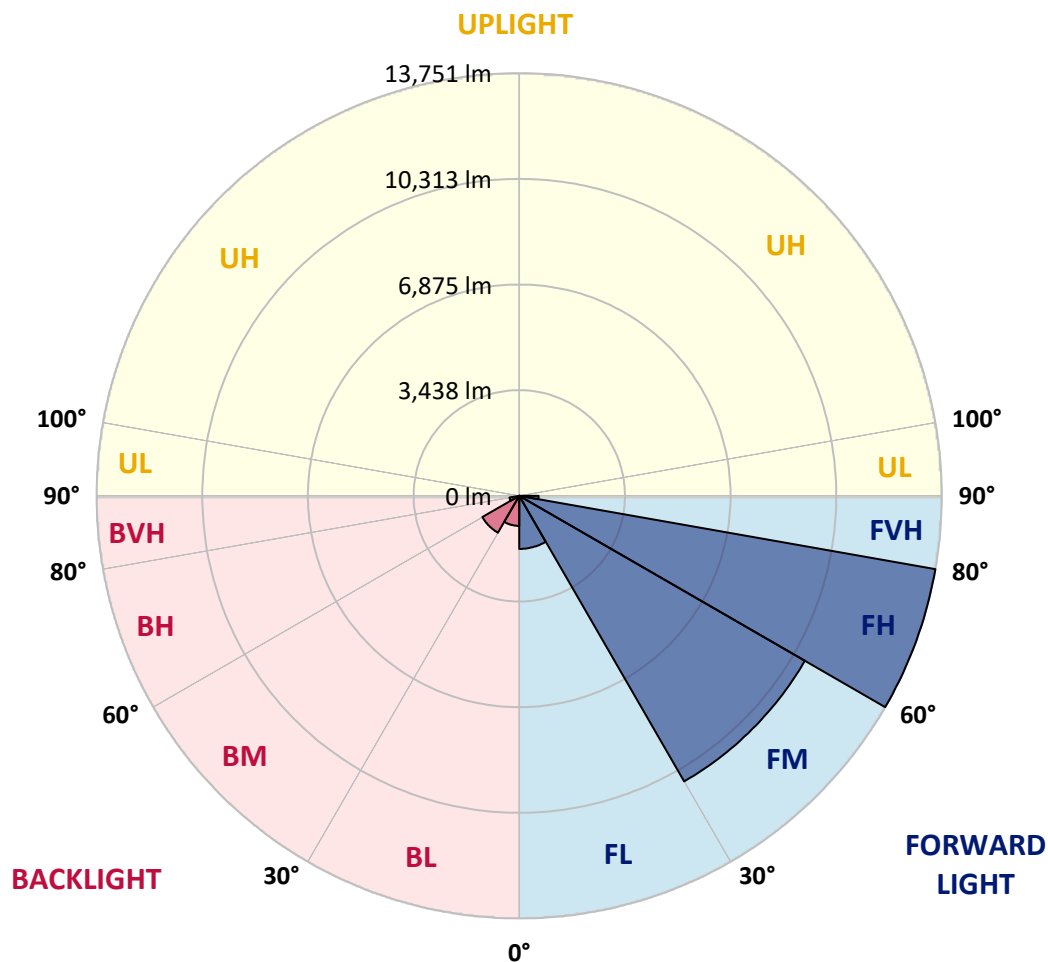
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1727.5	5.9			
FM	(30°-60°)	10729.8	36.3			
FH	(60°-80°)	13750.6	46.6			G5
FVH	(80°-90°)	629.5	2.1			G4/750
BL	(0°-30°)	978.8	3.3	B2/1000		
BM	(30°-60°)	1385.5	4.7	B2/2500		
BH	(60°-80°)	322.0	1.1	B1/500		G1/500
BVH	(80°-90°)	5.3	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	5080.5	5080.5	5080.5	5080.5	5080.5	5080.5	5080.5	5080.5	5080.5	5080.5	5080.5
2.5°	4814.6	4834.9	4856.6	4860.9	4897.0	4898.5	4950.5	4989.5	5028.5	5066.1	5079.1
5°	4320.5	4353.7	4392.7	4431.7	4508.3	4538.7	4665.8	4795.9	4920.1	5038.6	5096.4
7.5°	3793.1	3830.6	3885.5	3982.3	4067.6	4126.8	4327.7	4558.9	4790.1	5008.3	5134.0
10°	3311.9	3346.6	3404.4	3506.9	3638.4	3719.4	3989.6	4310.4	4649.9	4980.8	5190.3
12.5°	3005.5	3024.3	3056.1	3165.9	3284.4	3375.5	3693.4	4090.7	4534.3	4979.4	5281.4
15°	2949.2	2955.0	2929.0	2978.1	3070.6	3158.7	3480.9	3913.0	4446.2	5002.5	5399.9
17.5°	3038.8	3035.9	2949.2	2943.4	3017.1	3089.4	3376.9	3790.2	4384.0	5056.0	5553.0
20°	3174.6	3164.5	3014.2	2986.8	3064.8	3132.7	3369.7	3743.9	4360.9	5145.5	5739.4
22.5°	3355.2	3337.9	3102.4	3073.5	3157.3	3228.1	3459.3	3788.7	4381.2	5265.5	5956.2
25°	3579.2	3553.2	3254.1	3222.3	3307.5	3378.3	3619.7	3917.3	4441.8	5411.4	6230.7
27.5°	3832.1	3794.5	3496.8	3414.5	3511.3	3585.0	3833.5	4113.8	4537.2	5566.0	6567.4
30°	4070.5	4021.4	3752.6	3616.8	3735.3	3817.6	4064.7	4347.9	4690.4	5804.5	7028.3
32.5°	4310.4	4255.4	3980.9	3819.1	3926.0	4015.6	4303.1	4670.2	4977.9	6168.6	7641.0
35°	4862.3	4804.5	4467.9	4200.5	4199.1	4249.7	4636.9	5110.9	5358.0	6675.8	8372.2
37.5°	5791.5	5758.2	5437.4	4930.2	4794.4	4738.1	5092.1	5636.8	5904.2	7373.7	9197.3
40°	6808.7	6779.8	6420.0	5960.5	5753.9	5615.2	5745.2	6369.4	6675.8	8226.2	10039.7
42.5°	7957.5	7820.2	7178.6	7041.4	6856.4	6750.9	6633.9	7272.5	7623.7	9153.9	10874.9
45°	9000.7	8769.5	7937.2	7729.2	7687.3	7713.3	7778.3	8486.3	8690.1	10256.4	11707.2
47.5°	9622.1	9440.0	8801.3	8601.9	8590.4	8762.3	9253.6	9857.6	9752.1	11217.3	12439.8
50°	10213.1	10048.3	9518.0	9567.2	9620.6	9854.7	10928.3	11267.9	10721.7	12088.6	13111.7
52.5°	10691.4	10439.9	10162.5	10438.5	10701.5	11078.6	12656.5	12533.7	11409.5	12782.2	13686.8
55°	10967.3	10853.2	10987.6	11265.0	11759.2	12371.9	14287.9	13587.1	11912.4	13415.1	14069.7
57.5°	11978.8	11754.9	12022.2	12262.0	12906.5	13763.4	15685.2	14371.7	12275.0	13806.7	14157.8
60°	13202.7	13022.1	13179.6	13578.4	14448.3	15455.4	16991.4	15011.8	12464.3	14058.1	13929.5
62.5°	15150.5	14912.1	14813.9	15260.4	16413.4	17513.1	17982.7	15455.4	12422.4	13946.9	13146.4
65°	17760.2	17513.1	17073.8	17478.4	18945.0	19721.0	19091.0	15549.4	12133.4	13046.7	11166.8
67.5°	20433.4	20254.2	19878.5	20560.5	21884.1	22134.1	20262.9	15321.0	11202.9	10578.6	7889.6
70°	22199.1	22122.5	22366.7	23875.3	25055.8	24983.6	21337.9	14094.3	8732.0	6505.3	3902.9
72.5°	20926.1	21293.1	23096.4	25831.8	27273.9	26684.3	20785.9	10822.8	4990.9	2502.7	1128.5
73°	19871.3	20340.9	22768.4	25905.5	27448.7	26802.8	20322.1	9934.2	4254.0	1975.3	855.4
75°	13824.1	14400.6	18849.7	24126.7	26630.9	25537.0	16939.4	6080.4	1970.9	875.7	345.3
77.5°	6711.9	7138.2	10379.2	17432.2	20710.8	19952.2	10545.4	2265.7	890.1	547.6	158.9
80°	2505.6	2785.9	4505.4	8872.1	11968.7	12282.3	4638.4	856.9	592.4	440.7	80.9
82.5°	656.0	731.2	1661.7	3956.3	6133.9	6420.0	1462.3	432.0	433.5	362.7	49.1
85°	209.5	239.9	518.7	1775.9	2889.9	2537.4	381.5	209.5	315.0	270.2	27.5
87.5°	26.0	33.2	164.7	417.6	637.2	354.0	59.2	62.1	134.4	150.3	15.9
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°	5080.5	5080.5	5080.5	5080.5	5080.5	5080.5	5080.5	5080.5	5080.5	5080.5	5080.5
2.5°	5092.1	5084.9	5086.3	5048.7	5024.2	4975.0	4924.5	4901.3	4876.8	4866.7	4876.8
5°	5118.1	5105.1	5067.5	4951.9	4829.1	4670.2	4521.3	4408.6	4267.0	4228.0	4268.5
7.5°	5158.6	5132.5	5022.7	4787.2	4514.1	4210.7	3869.6	3621.1	3417.4	3285.9	3333.6
10°	5217.8	5168.7	4947.6	4547.3	4058.9	3521.4	3037.3	2660.2	2392.9	2283.1	2278.7
12.5°	5317.5	5225.0	4855.1	4235.2	3502.6	2785.9	2151.6	1742.6	1525.9	1385.7	1382.8
15°	5427.3	5291.5	4738.1	3861.0	2855.3	1995.5	1385.7	1075.1	934.9	890.1	884.3
17.5°	5561.7	5368.1	4586.3	3400.0	2177.6	1322.2	904.6	815.0	809.2	804.8	804.8
20°	5730.8	5459.1	4391.3	2872.6	1544.7	882.9	768.7	774.5	777.4	771.6	773.1
22.5°	5927.3	5551.6	4158.6	2306.2	1044.7	738.4	735.5	742.7	745.6	742.7	744.2
25°	6155.6	5658.5	3875.4	1712.3	754.3	700.8	708.0	718.2	725.4	725.4	725.4
27.5°	6438.8	5788.6	3534.4	1195.0	651.7	661.8	682.0	700.8	710.9	713.8	713.8
30°	6807.3	5950.4	3125.5	819.3	592.4	609.8	647.3	683.5	702.3	705.1	706.6
32.5°	7272.5	6132.5	2651.5	605.4	541.9	554.9	595.3	656.0	692.1	697.9	697.9
35°	7805.7	6343.4	2141.4	527.4	505.7	510.1	541.9	611.2	674.8	690.7	692.1
37.5°	8389.5	6551.5	1628.5	492.7	475.4	475.4	498.5	557.8	632.9	682.0	687.8
40°	8934.3	6677.2	1141.5	465.3	447.9	447.9	468.2	511.5	582.3	656.0	671.9
42.5°	9437.1	6720.6	794.7	439.3	421.9	426.3	443.6	478.3	531.8	605.4	619.9
45°	9954.4	6713.3	579.4	408.9	395.9	408.9	421.9	447.9	487.0	528.9	531.8
47.5°	10344.6	6652.7	459.5	380.0	371.4	388.7	400.3	417.6	439.3	436.4	436.4
50°	10710.1	6505.3	369.9	341.0	346.8	367.0	372.8	378.6	380.0	352.6	349.7
52.5°	10987.6	6275.5	296.2	299.1	322.2	342.5	336.7	328.0	313.6	280.3	274.5
55°	11080.1	5833.4	232.6	247.1	286.1	312.1	290.4	271.7	244.2	216.7	211.0
57.5°	10912.4	5262.6	189.3	192.2	241.3	263.0	238.4	216.7	186.4	163.3	158.9
60°	10557.0	4628.2	156.1	144.5	186.4	205.2	189.3	167.6	140.2	122.8	121.4
62.5°	9851.8	3952.0	128.6	112.7	141.6	157.5	147.4	131.5	108.4	96.8	95.4
65°	8369.3	3161.6	104.0	91.0	109.8	122.8	114.2	102.6	85.3	76.6	75.1
67.5°	5842.0	2137.1	85.3	75.1	86.7	96.8	89.6	83.8	67.9	66.5	67.9
70°	2817.7	1030.3	70.8	60.7	67.9	75.1	72.2	67.9	65.0	75.1	86.7
72.5°	807.7	345.3	56.4	50.6	54.9	59.2	62.1	60.7	70.8	91.0	105.5
73°	621.3	278.9	53.5	47.7	52.0	57.8	60.7	59.2	72.2	92.5	105.5
75°	265.9	134.4	40.5	39.0	43.3	50.6	53.5	53.5	72.2	93.9	101.1
77.5°	119.9	72.2	26.0	30.3	37.6	40.5	44.8	44.8	57.8	72.2	72.2
80°	67.9	39.0	20.2	23.1	27.5	27.5	27.5	24.6	26.0	28.9	31.8
82.5°	43.3	26.0	15.9	18.8	17.3	14.4	11.6	11.6	10.1	11.6	14.4
85°	24.6	14.4	14.4	11.6	7.2	5.8	7.2	5.8	1.4	0.0	1.4
87.5°	14.4	8.7	4.3	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)