

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: P192783

Luminaire Tested: **GAN-AF-05-LED-U-SL2-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192783
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-SL2-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19254.7 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 210
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: 28.75 FT



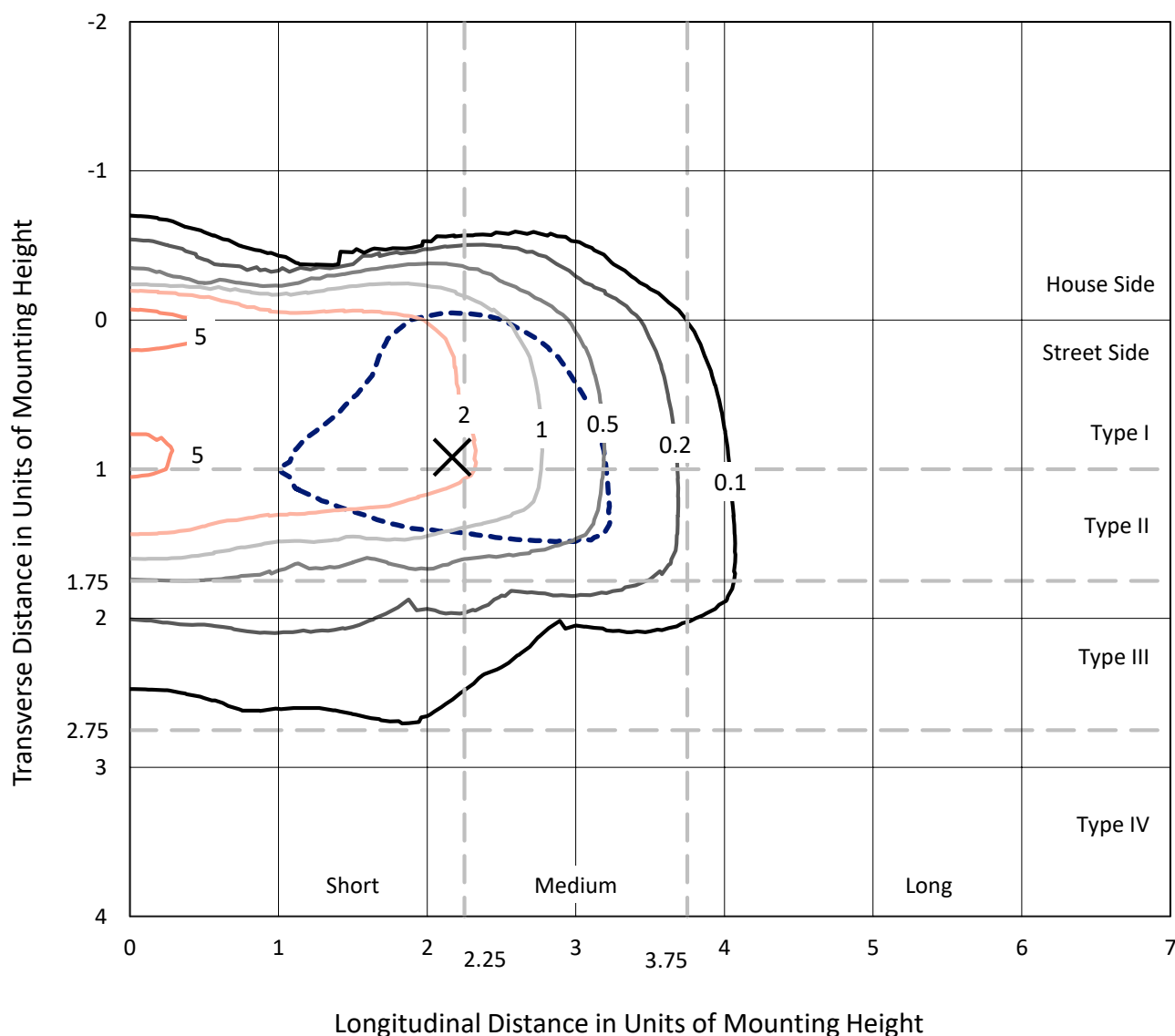
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

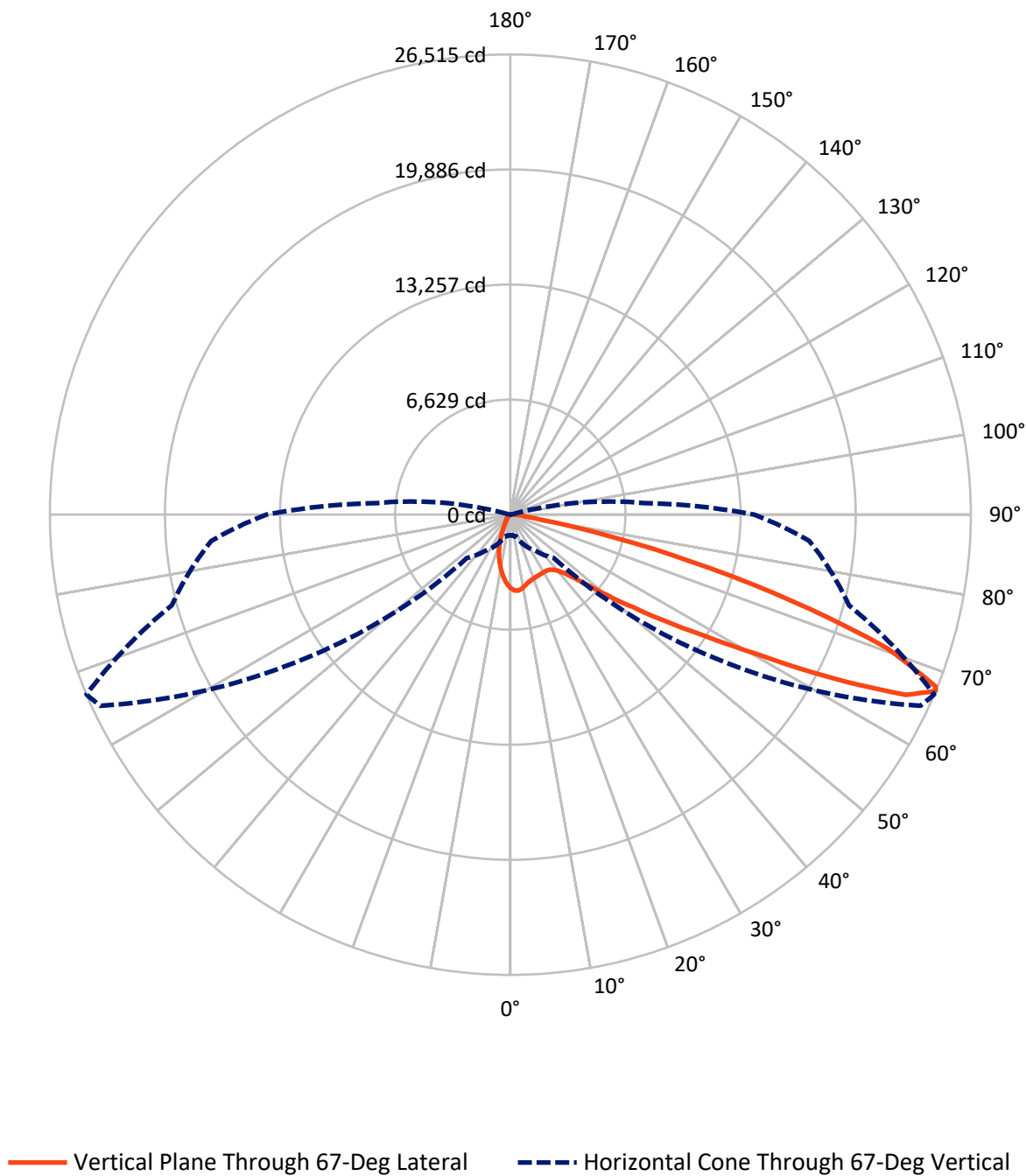


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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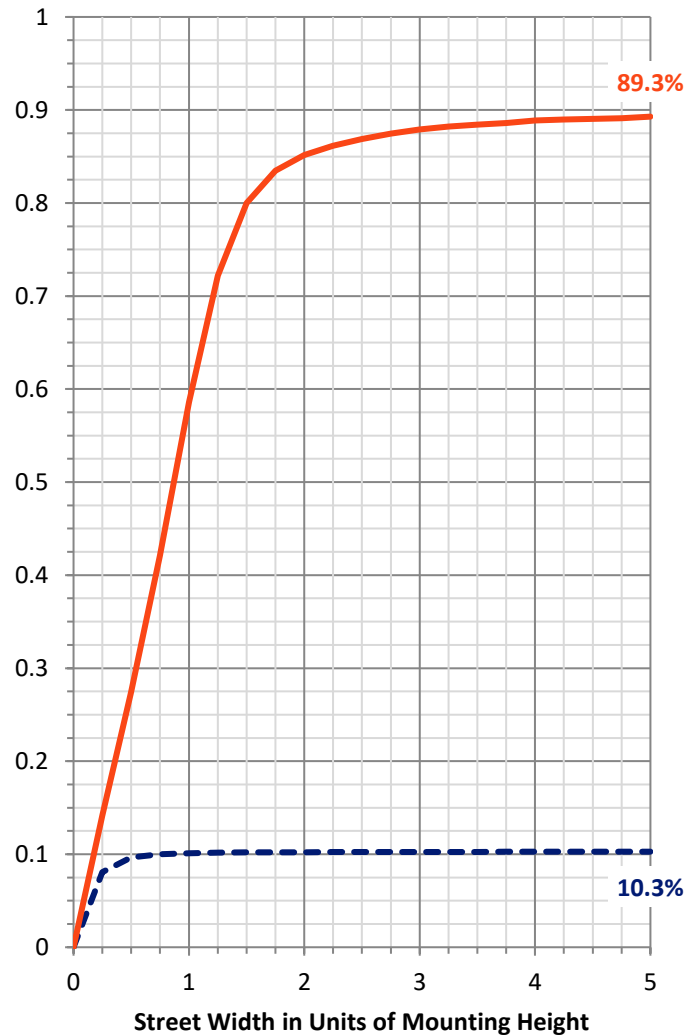
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1999.2	0.0	1999.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	17255.5	0.0	17255.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	19254.7	0.0	19254.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.5	1.8
10°-20°	735.4	3.8
20°-30°	1069.2	5.6
30°-40°	1668.0	8.7
40°-50°	2954.8	15.3
50°-60°	4675.7	24.3
60°-70°	5355.3	27.8
70°-80°	2221.4	11.5
80°-90°	229.5	1.2
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°	19254.7	100.0
0°-180°	19254.7	100.0

Coefficient of Utilization



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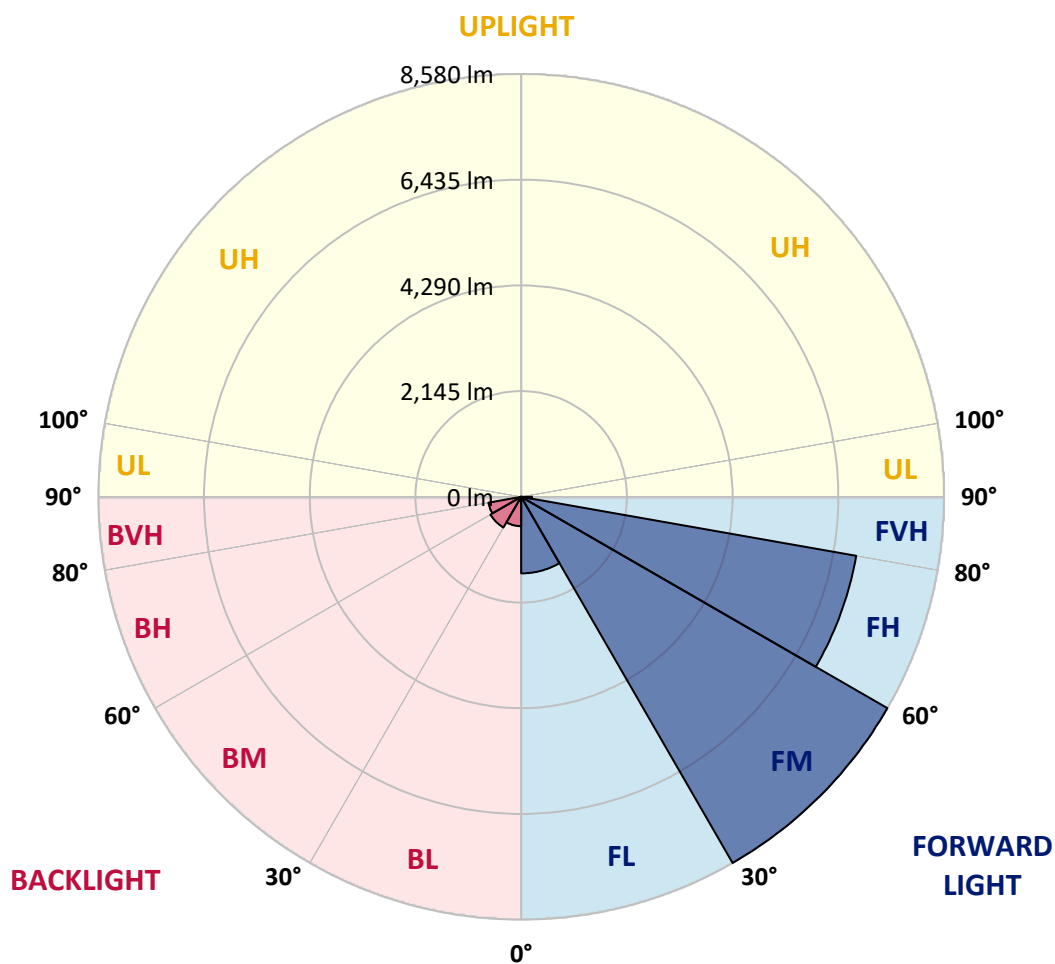
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1553.6	8.1			
FM	(30°-60°)	8580.0	44.6			
FH	(60°-80°)	6902.9	35.9			G3/7500
FVH	(80°-90°)	219.1	1.1			G2/225
BL	(0°-30°)	596.6	3.1	B2/1000		
BM	(30°-60°)	718.5	3.7	B1/1000		
BH	(60°-80°)	673.8	3.5	B2/1000		G2/1000
BVH	(80°-90°)	10.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4246.4	4246.4	4246.4	4246.4	4246.4	4246.4	4246.4	4246.4	4246.4	4246.4	4246.4
2.5°	4390.1	4399.1	4398.0	4404.8	4420.4	4421.6	4405.9	4375.5	4368.8	4329.5	4261.0
5°	4048.7	4074.6	4090.2	4154.2	4226.1	4312.7	4377.8	4401.4	4398.0	4370.0	4266.6
7.5°	3659.0	3684.9	3702.8	3778.0	3873.6	4021.8	4191.4	4330.6	4342.9	4373.3	4262.1
10°	3399.6	3404.1	3428.8	3500.6	3600.6	3752.2	3954.4	4198.1	4235.1	4346.4	4250.8
12.5°	3186.2	3189.6	3222.2	3299.6	3406.2	3559.0	3771.3	4053.2	4110.5	4312.7	4248.6
15°	3034.5	3046.9	3076.0	3157.0	3270.4	3422.0	3640.0	3946.6	4015.1	4300.3	4268.9
17.5°	2984.1	2997.5	3006.5	3064.9	3168.2	3316.4	3540.0	3876.8	3954.4	4307.0	4308.2
20°	3036.9	3046.9	3026.7	3041.3	3105.3	3237.9	3455.8	3817.4	3909.4	4314.8	4358.7
22.5°	3233.3	3237.9	3182.8	3118.8	3107.6	3180.5	3389.4	3770.2	3869.0	4336.3	4418.2
25°	3570.3	3562.4	3472.6	3334.5	3204.1	3170.4	3350.2	3741.0	3848.7	4358.7	4479.9
27.5°	3976.8	3988.1	3864.5	3663.5	3415.3	3237.9	3344.5	3728.7	3839.8	4374.4	4533.9
30°	4471.0	4486.7	4345.2	4092.6	3736.5	3404.1	3396.3	3726.4	3834.2	4364.4	4538.4
32.5°	4975.2	4994.3	4883.2	4622.6	4165.5	3682.6	3513.0	3751.1	3845.5	4329.5	4512.5
35°	5503.2	5530.0	5456.0	5232.4	4747.4	4084.6	3718.5	3826.4	3898.3	4326.1	4486.7
37.5°	6232.0	6256.7	6117.4	5880.5	5451.5	4623.8	4048.7	3967.9	4022.9	4379.9	4493.5
40°	7320.3	7316.9	6957.5	6594.8	6225.3	5308.8	4512.5	4224.0	4252.1	4542.9	4576.6
42.5°	8506.3	8500.6	7969.4	7417.9	7084.4	6152.3	5122.4	4666.5	4647.4	4842.7	4792.2
45°	9420.5	9419.4	8985.8	8364.8	8118.8	7120.3	5910.8	5281.9	5252.6	5330.2	5189.9
47.5°	9810.2	9816.8	9599.0	9162.2	9265.4	8429.9	6904.7	6173.5	6129.8	6098.3	5884.9
50°	9506.8	9520.5	9538.4	9453.0	10106.6	10189.7	8237.8	7430.2	7409.0	7268.6	6935.0
52.5°	8516.3	8584.8	8796.0	9066.7	10398.6	11878.8	10327.8	8991.4	8876.9	8727.5	8360.3
55°	6847.5	6922.6	7323.6	7980.7	9964.0	12988.5	13256.9	11003.9	10813.1	10367.2	9837.1
57.5°	4531.6	4648.4	5230.2	6065.7	8701.6	13167.1	16179.2	13797.1	13132.2	11911.5	11314.1
60°	2496.6	2608.9	3240.1	3997.0	6284.8	12284.3	18144.5	17433.6	16258.9	13637.6	13107.5
62.5°	1537.5	1598.1	2064.2	2768.4	3769.1	9695.5	18551.1	22003.5	20643.5	15860.2	15274.0
65°	1224.1	1250.0	1478.0	2263.0	2702.1	5767.0	17238.3	25487.4	25033.6	18551.1	17213.6
67°	1188.2	1198.3	1306.2	1942.9	2547.2	3535.5	14441.8	26054.5	26514.9	20179.6	17274.2
67.5°	1196.1	1207.4	1309.5	1854.2	2542.7	3249.1	13478.1	25831.0	26412.8	20308.8	17005.7
70°	1153.4	1188.2	1499.4	1853.0	2418.0	2699.9	8071.6	22380.8	22986.2	18870.0	14429.5
72.5°	408.8	411.1	648.0	1499.4	2629.1	2729.1	4053.2	16407.1	16855.3	14435.0	10403.1
75°	242.5	206.6	215.7	426.7	2512.3	2650.5	2338.2	10484.0	10651.3	8271.5	5268.4
77.5°	167.3	146.0	150.4	188.7	956.9	2613.4	1857.6	5467.3	5288.5	2901.0	1122.0
80°	95.5	84.2	89.8	165.1	348.2	2438.2	1752.0	2217.0	1890.1	491.8	310.0
82.5°	50.6	42.7	51.7	135.9	242.5	1519.6	1755.4	1071.4	849.1	166.2	211.1
85°	17.9	14.6	24.7	93.2	161.7	466.1	1627.3	900.8	707.6	80.9	160.6
87.5°	3.4	3.4	10.2	38.1	65.1	142.6	962.5	534.6	358.3	48.3	110.1
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°	4246.4	4246.4	4246.4	4246.4	4246.4	4246.4	4246.4	4246.4	4246.4	4246.4	4246.4
2.5°	4232.9	4184.6	4119.5	4039.8	3945.4	3862.4	3800.5	3736.5	3723.0	3700.6	3697.3
5°	4204.9	4121.7	3960.0	3774.7	3577.0	3398.5	3253.6	3124.4	3067.1	3017.7	3012.2
7.5°	4163.4	4038.7	3763.4	3464.7	3155.9	2875.0	2637.0	2468.5	2313.6	2239.4	2228.3
10°	4115.0	3936.4	3542.1	3127.8	2701.0	2304.6	1950.9	1654.3	1474.6	1367.9	1354.5
12.5°	4070.0	3836.4	3316.4	2778.5	2211.4	1681.3	1226.4	943.4	754.8	678.4	669.3
15°	4048.7	3755.6	3105.3	2421.4	1699.2	1070.3	670.6	518.9	457.1	439.1	438.0
17.5°	4046.5	3687.1	2898.6	2051.9	1190.5	622.2	436.9	398.7	386.3	381.9	381.9
20°	4045.4	3622.0	2692.0	1668.9	755.8	414.4	363.9	354.9	346.0	340.4	340.4
22.5°	4057.7	3563.6	2476.4	1278.2	476.2	335.8	320.1	311.1	299.9	292.0	290.8
25°	4070.0	3518.5	2256.3	909.7	344.8	292.0	276.3	264.0	248.2	238.0	237.0
27.5°	4072.3	3462.4	2020.4	608.7	288.7	254.9	234.7	215.7	197.6	187.6	186.4
30°	4038.7	3368.1	1758.7	411.1	254.9	221.2	194.3	174.0	157.3	149.3	149.3
32.5°	3972.3	3251.3	1471.2	310.0	226.8	189.8	160.6	141.5	130.2	127.0	125.7
35°	3912.8	3125.6	1175.8	262.8	203.3	160.6	131.4	119.1	112.3	111.2	110.1
37.5°	3878.0	3024.6	898.4	238.0	180.9	134.7	111.2	102.1	98.9	96.5	97.7
40°	3904.9	2940.2	663.8	217.9	158.3	112.3	94.3	89.8	86.5	85.3	85.3
42.5°	4022.9	2925.6	493.1	200.0	137.0	93.2	82.0	78.6	76.4	75.3	76.4
45°	4332.9	3015.4	383.0	183.0	115.7	78.6	69.6	68.5	67.4	67.4	67.4
47.5°	4799.0	3200.7	318.9	164.0	96.5	67.4	60.6	59.5	58.5	59.5	59.5
50°	5588.5	3540.0	285.2	144.9	79.8	57.3	51.7	51.7	51.7	51.7	52.8
52.5°	6789.1	4207.0	262.8	125.7	65.1	48.3	43.8	43.8	44.9	44.9	46.0
55°	8126.6	5092.0	242.5	106.7	55.0	40.4	35.9	37.0	38.1	39.4	39.4
57.5°	9577.6	6072.5	225.7	87.6	47.2	32.6	30.4	31.4	32.6	34.9	34.9
60°	11328.5	7133.9	201.0	68.5	39.4	25.7	23.6	25.7	29.2	31.4	32.6
62.5°	13251.3	8160.3	169.6	53.9	32.6	20.2	19.1	23.6	28.1	30.4	31.4
65°	14565.3	8482.7	130.2	43.8	24.7	14.6	15.8	21.3	27.0	30.4	30.4
67°	14032.9	7690.9	106.7	37.0	20.2	11.3	14.6	21.3	27.0	29.2	30.4
67.5°	13663.4	7380.9	102.1	35.9	19.1	11.3	14.6	21.3	27.0	30.4	30.4
70°	11117.4	5544.7	85.3	27.0	15.8	10.2	12.3	20.2	25.7	29.2	29.2
72.5°	7724.6	3418.7	76.4	19.1	13.4	9.0	11.3	19.1	24.7	28.1	29.2
75°	3672.5	1237.7	65.1	14.6	12.3	7.8	10.2	19.1	24.7	28.1	28.1
77.5°	749.1	287.5	52.8	12.3	10.2	7.8	9.0	17.9	23.6	27.0	27.0
80°	246.0	111.2	39.4	11.3	10.2	7.8	9.0	16.8	23.6	25.7	27.0
82.5°	177.4	56.2	25.7	11.3	10.2	7.8	7.8	16.8	22.5	25.7	25.7
85°	135.9	39.4	16.8	11.3	10.2	7.8	7.8	15.8	21.3	24.7	24.7
87.5°	89.8	15.8	13.4	11.3	10.2	7.8	7.8	15.8	20.2	23.6	24.7
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)