

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: P192863

Luminaire Tested: **GAN-AF-05-LED-U-SL3-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192863
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19860.1 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

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

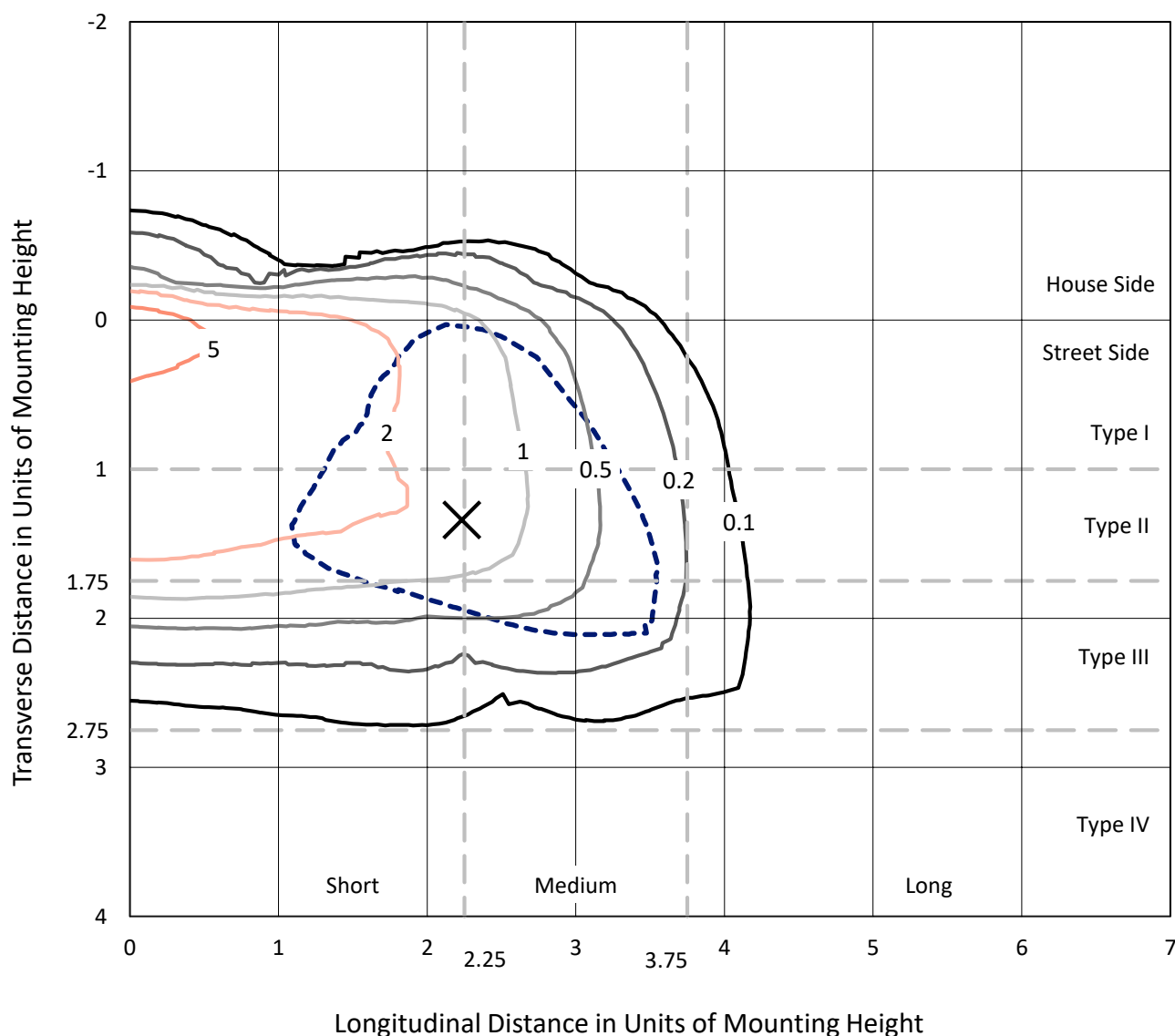


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

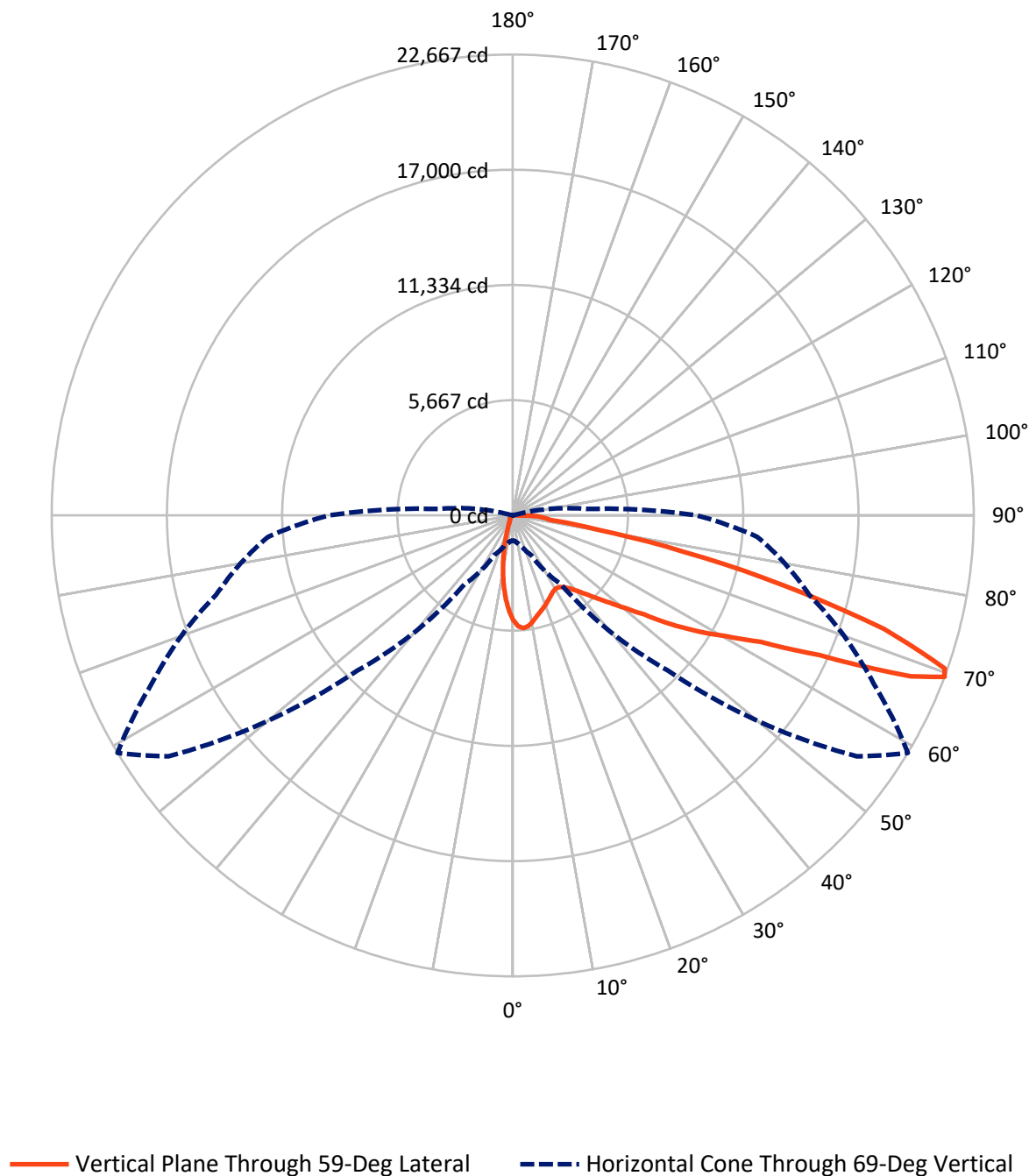


Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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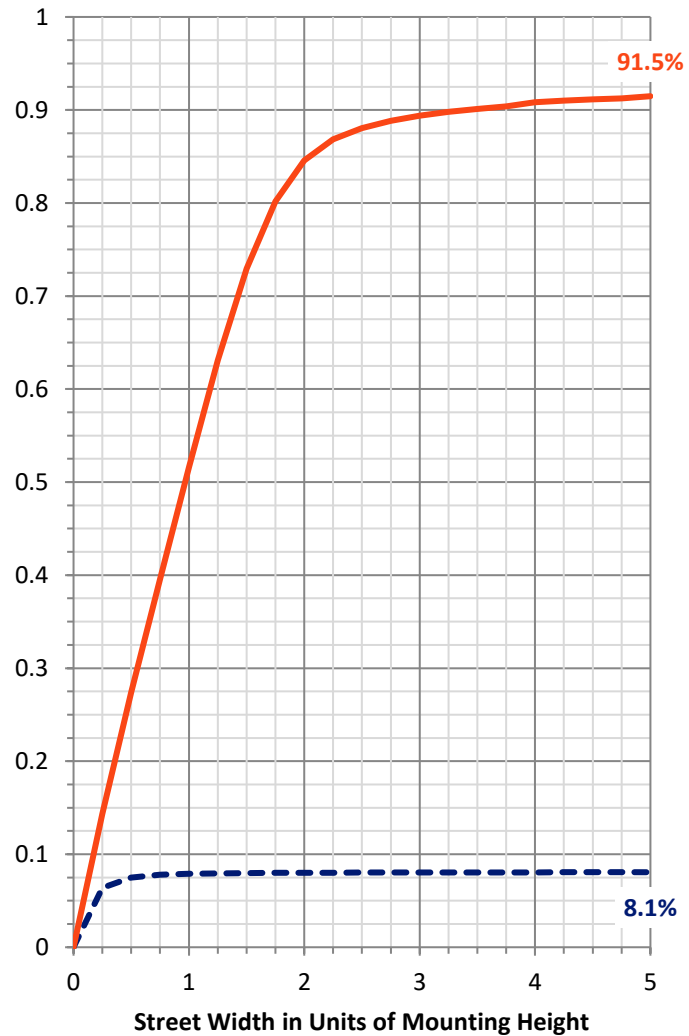
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1617.3	0.0	1617.3
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	18242.7	0.0	18242.7
	% Fixture	91.9	0.0	91.9
Total	Lumens	19860.1	0.0	19860.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.6	2.1
10°-20°	867.0	4.4
20°-30°	1166.7	5.9
30°-40°	1693.9	8.5
40°-50°	2820.5	14.2
50°-60°	4399.9	22.2
60°-70°	5444.5	27.4
70°-80°	2759.2	13.9
80°-90°	288.7	1.5
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°	19860.1	100.0
0°-180°	19860.1	100.0

Coefficient of Utilization



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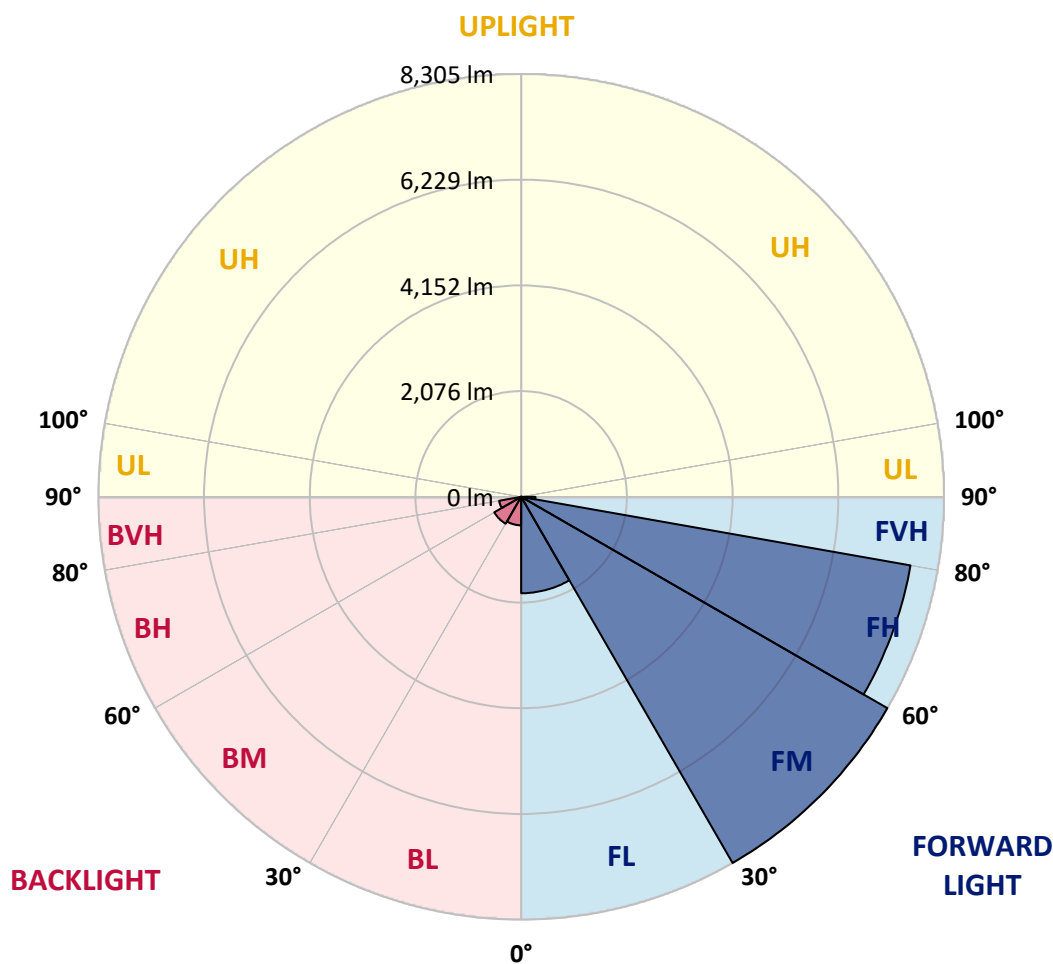
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1893.4	9.5			
FM	(30°-60°)	8304.9	41.8			
FH	(60°-80°)	7764.6	39.1			G4/12000
FVH	(80°-90°)	279.8	1.4			G3/500
BL	(0°-30°)	559.8	2.8	B2/1000		
BM	(30°-60°)	609.4	3.1	B1/1000		
BH	(60°-80°)	439.2	2.2	B1/500		G1/500
BVH	(80°-90°)	8.9	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5169.3	5169.3	5169.3	5169.3	5169.3	5169.3	5169.3	5169.3	5169.3	5169.3	5169.3
2.5°	5665.6	5663.5	5638.8	5627.5	5607.3	5564.6	5498.4	5463.5	5407.3	5309.7	5178.3
5°	5614.1	5640.9	5655.6	5656.7	5671.3	5655.6	5596.0	5566.9	5489.4	5332.2	5096.3
7.5°	5263.7	5273.7	5315.3	5351.2	5420.9	5487.1	5508.5	5496.1	5450.1	5281.6	4968.2
10°	4888.6	4898.6	4948.1	4995.3	5089.6	5191.8	5299.6	5322.0	5341.1	5209.7	4844.8
12.5°	4565.1	4575.2	4625.7	4687.6	4797.6	4923.3	5090.7	5127.7	5212.0	5141.2	4745.9
15°	4286.6	4291.0	4340.6	4417.0	4548.3	4709.9	4899.7	4959.3	5088.4	5092.9	4659.5
17.5°	4049.5	4060.8	4091.2	4164.2	4308.0	4507.8	4729.1	4814.4	4966.1	5052.4	4575.2
20°	3904.8	3916.0	3914.9	3955.3	4084.4	4297.8	4558.4	4660.6	4844.8	5010.9	4500.0
22.5°	3876.7	3876.7	3847.4	3841.9	3918.2	4096.7	4381.0	4505.7	4735.9	4992.9	4447.2
25°	3976.6	3972.1	3899.1	3839.6	3842.9	3949.7	4209.1	4357.4	4643.7	5005.3	4419.1
27.5°	4187.8	4182.1	4090.1	3976.6	3885.7	3884.6	4078.8	4238.2	4570.8	5063.7	4430.4
30°	4479.7	4477.6	4377.6	4234.9	4069.9	3918.2	4034.0	4178.8	4523.6	5169.3	4456.1
32.5°	4798.6	4795.3	4720.1	4569.6	4360.7	4069.9	4081.1	4202.3	4537.0	5309.7	4519.1
35°	5136.8	5131.2	5098.6	4967.2	4736.9	4349.5	4236.1	4330.4	4622.4	5519.7	4642.7
37.5°	5502.9	5508.5	5532.1	5406.2	5164.8	4741.5	4495.5	4559.5	4794.2	5805.0	4843.6
40°	6043.0	6041.9	6049.8	5884.7	5652.2	5221.0	4858.2	4878.4	5081.6	6183.4	5149.1
42.5°	7023.4	6954.9	6747.2	6410.2	6176.7	5769.0	5315.3	5293.9	5433.3	6651.7	5576.9
45°	8340.8	8194.8	7655.7	7010.0	6711.2	6386.6	5877.9	5809.5	5898.2	7214.3	6104.8
47.5°	9473.9	9322.2	8559.7	7634.4	7278.3	6972.9	6537.2	6413.6	6442.8	7844.4	6774.1
50°	9859.0	9784.9	9119.0	8177.8	7827.6	7710.8	7301.9	7151.4	7109.9	8573.2	7550.2
52.5°	9725.3	9719.8	9276.2	8530.5	8330.6	8474.3	8264.4	8090.3	7937.5	9341.3	8339.6
55°	9510.9	9539.0	9340.2	8839.4	8832.6	9171.8	9580.5	9435.6	8993.2	10175.8	9020.1
57.5°	8919.1	9039.2	9304.3	9423.3	9699.6	10046.6	10676.6	10761.9	10238.6	10814.8	9585.1
60°	7236.8	7500.7	8367.7	9507.5	10817.0	11681.8	11999.5	12072.6	11260.6	11345.9	10347.6
62.5°	5136.8	5406.2	6505.8	8433.9	10833.8	13830.0	13970.4	13684.0	12385.8	12133.2	11662.7
65°	2726.7	2934.4	3833.0	6087.9	9393.0	14328.7	17417.0	16563.6	14371.4	13681.9	13361.8
67.5°	1394.8	1457.7	1814.8	2979.4	6457.4	12727.3	20506.6	21107.4	17793.3	15218.1	13279.8
69°	1234.2	1271.2	1508.3	2153.9	4135.0	10779.9	20657.0	22667.2	19584.5	15090.2	12068.0
70°	1194.9	1227.4	1443.1	1949.6	3232.1	9040.3	20080.9	22530.2	20042.6	14602.7	11162.9
72.5°	1014.2	1042.3	1284.8	1722.7	2626.8	4487.6	16312.0	19091.5	17985.2	12164.6	8080.2
75°	678.3	770.4	1233.1	1615.0	2443.7	2549.2	10754.2	13796.3	12816.0	8204.9	4209.1
77.5°	162.8	175.2	348.1	1284.8	2234.8	2243.8	5530.9	8576.6	6995.4	2924.4	995.1
80°	87.6	84.2	97.7	254.9	2081.0	2105.7	2489.8	4163.1	2497.6	485.1	327.9
82.5°	61.7	58.4	63.0	106.6	654.7	1918.1	1801.3	1884.4	1035.4	186.4	147.1
85°	22.5	21.3	34.9	96.5	205.5	1102.9	1850.8	1554.3	838.9	85.3	107.8
87.5°	7.8	6.8	13.4	52.8	63.0	469.4	1142.1	1174.6	330.2	51.7	50.6
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°	5169.3	5169.3	5169.3	5169.3	5169.3	5169.3	5169.3	5169.3	5169.3	5169.3	5169.3
2.5°	5123.2	5053.7	4925.6	4794.2	4672.9	4526.9	4454.0	4382.1	4351.7	4340.6	4287.8
5°	4975.0	4857.1	4585.3	4312.5	4060.8	3793.6	3617.2	3475.7	3392.7	3352.3	3288.2
7.5°	4785.2	4592.0	4179.9	3758.7	3366.9	2980.5	2694.2	2474.0	2322.5	2249.4	2183.2
10°	4601.0	4343.8	3757.7	3183.9	2651.5	2139.4	1744.1	1457.7	1274.6	1190.4	1136.6
12.5°	4435.9	4102.4	3350.0	2623.5	1955.2	1355.5	953.4	725.5	612.1	572.7	553.6
15°	4288.9	3880.1	2964.8	2091.1	1324.0	774.8	521.0	443.6	425.7	425.7	423.4
17.5°	4149.5	3662.2	2593.0	1591.4	831.0	473.9	396.4	386.3	386.3	390.8	390.8
20°	4016.0	3454.4	2233.7	1142.1	523.4	376.2	358.3	355.9	358.3	363.9	363.9
22.5°	3901.4	3265.8	1898.0	783.8	388.5	339.1	330.2	326.8	327.9	331.3	333.6
25°	3816.1	3106.3	1581.2	531.2	334.7	308.8	298.8	293.2	288.7	288.7	290.8
27.5°	3762.2	2971.6	1274.6	386.3	301.0	280.8	265.1	256.1	246.0	240.4	242.5
30°	3722.8	2843.5	987.1	315.5	269.6	249.3	229.1	214.4	200.0	193.2	195.3
32.5°	3708.3	2740.2	737.8	278.5	241.5	218.9	194.3	175.2	159.5	153.8	154.9
35°	3747.6	2658.2	540.2	251.6	218.9	190.8	162.8	141.5	129.2	125.7	126.8
37.5°	3850.9	2614.3	404.3	229.1	198.8	167.3	135.9	115.7	107.8	107.8	108.9
40°	4046.3	2613.3	324.6	213.4	180.9	144.9	112.3	97.7	93.2	95.5	96.5
42.5°	4331.5	2672.8	283.0	198.8	165.1	123.6	93.2	83.1	82.0	84.2	85.3
45°	4721.2	2781.7	260.6	186.4	148.3	103.4	78.5	71.9	71.9	75.3	76.4
47.5°	5198.4	2941.3	241.5	174.0	131.4	86.5	67.4	63.0	64.0	67.4	68.5
50°	5773.5	3142.2	222.4	160.6	119.1	71.9	58.4	55.0	56.2	60.6	61.7
52.5°	6428.2	3412.9	206.6	148.3	103.4	59.5	49.3	47.2	49.3	53.9	55.0
55°	6989.8	3655.5	187.6	138.1	83.1	49.3	40.4	40.4	42.7	48.3	49.3
57.5°	7529.9	3909.3	170.7	119.1	65.1	39.4	33.7	34.9	38.1	43.8	44.9
60°	8322.8	4339.3	150.4	100.0	49.3	31.4	28.1	29.2	33.7	39.4	40.4
62.5°	9669.2	4994.1	130.2	83.1	38.1	24.7	22.5	24.7	30.4	37.0	38.1
65°	10884.4	5260.3	106.6	69.6	29.2	19.1	19.1	22.5	29.2	35.9	37.0
67.5°	10207.2	4428.1	83.1	55.0	22.5	14.6	15.8	21.3	28.1	35.9	37.0
69°	9026.9	3620.7	70.8	43.8	19.1	13.4	14.6	21.3	28.1	34.9	35.9
70°	8107.1	3056.8	63.0	37.0	16.8	13.4	14.6	20.2	28.1	34.9	35.9
72.5°	5429.8	1650.8	50.6	27.0	15.8	12.3	12.3	20.2	27.0	33.7	34.9
75°	2333.7	455.9	40.4	19.1	13.4	11.3	11.3	19.1	25.7	32.6	34.9
77.5°	426.7	115.7	32.6	16.8	13.4	11.3	10.2	17.9	24.7	31.4	32.6
80°	169.6	57.3	25.7	14.6	12.3	10.2	9.0	16.8	23.6	30.4	31.4
82.5°	102.1	32.6	21.3	13.4	12.3	9.0	7.8	14.6	22.5	29.2	30.4
85°	83.1	22.5	16.8	13.4	11.3	9.0	6.8	13.4	20.2	28.1	29.2
87.5°	40.4	15.8	15.8	12.3	11.3	9.0	6.8	12.3	19.1	27.0	28.1
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)