

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: P192967

Luminaire Tested: **GAN-AF-09-LED-U-SL4-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192967
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-SL4-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45822.2 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 575
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

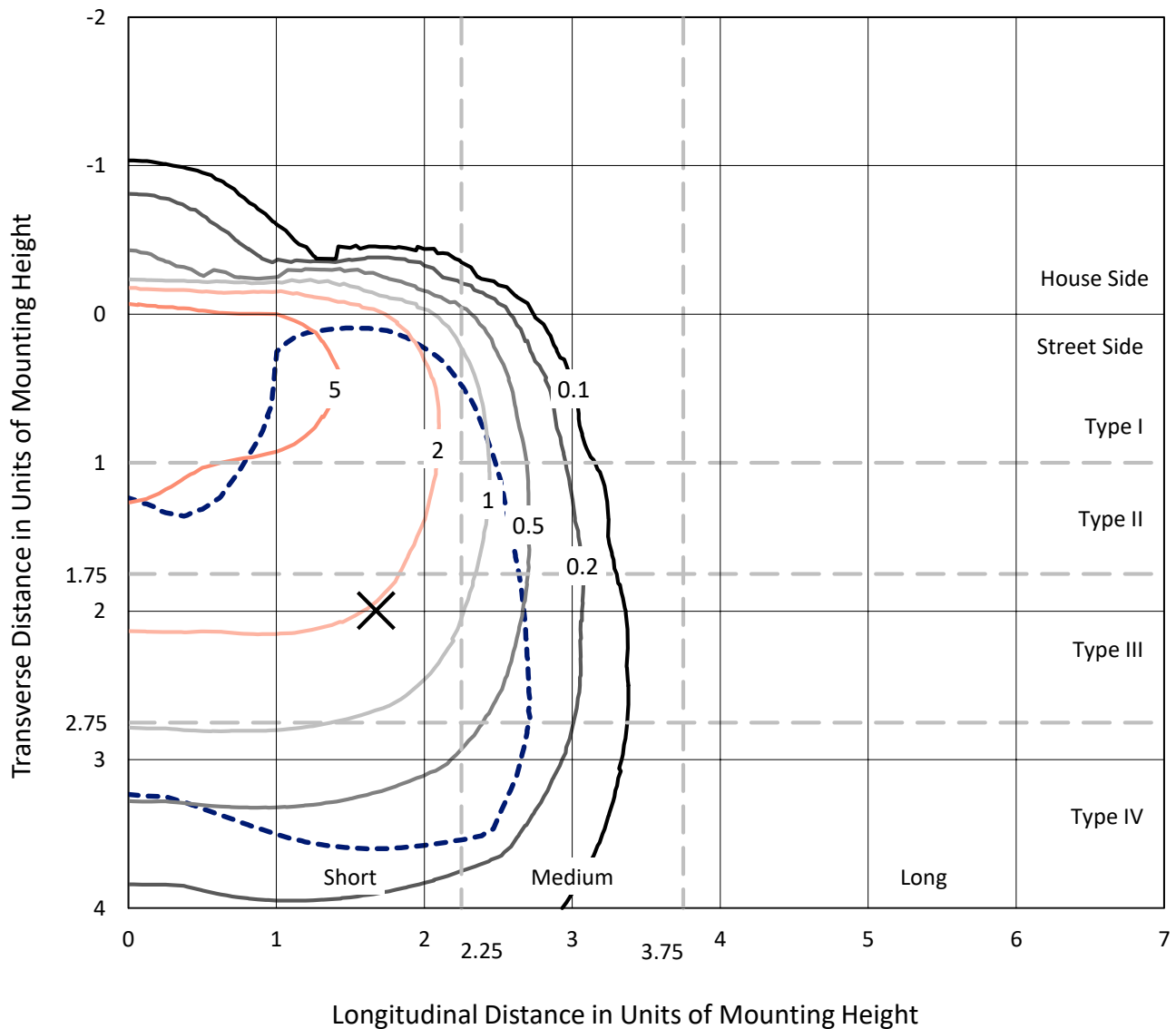


REPORT NUMBER: P192967

CATALOG NUMBER: GAN-AF-09-LED-U-SL4-7030-1200-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

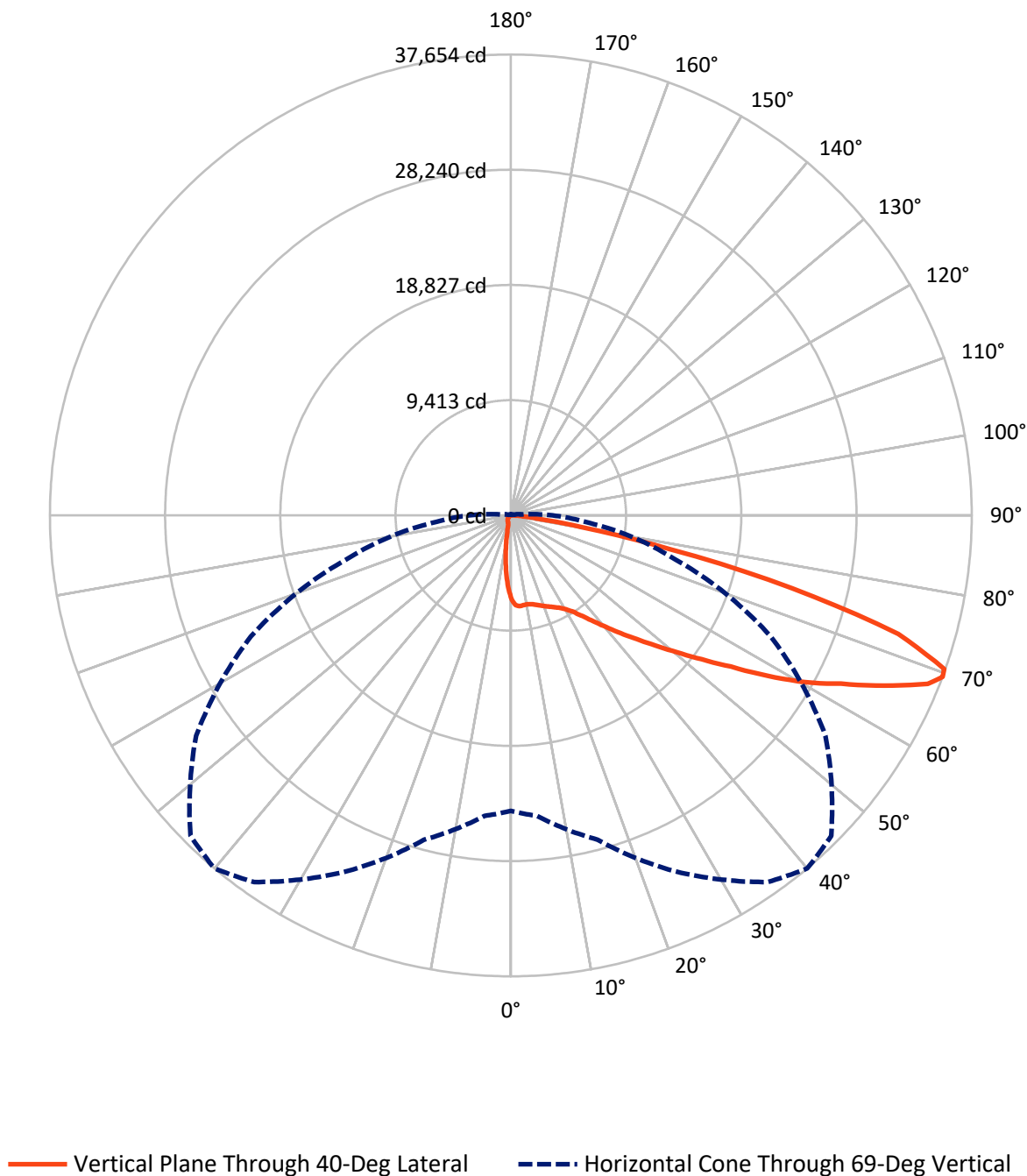


Based on 30 foot mounting height. Maximum calculated value = 8.3 fc
Type IV - Short - Semi-Cutoff

REPORT NUMBER: P192967

CATALOG NUMBER: GAN-AF-09-LED-U-SL4-7030-1200-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P192967

CATALOG NUMBER: GAN-AF-09-LED-U-SL4-7030-1200-HSS

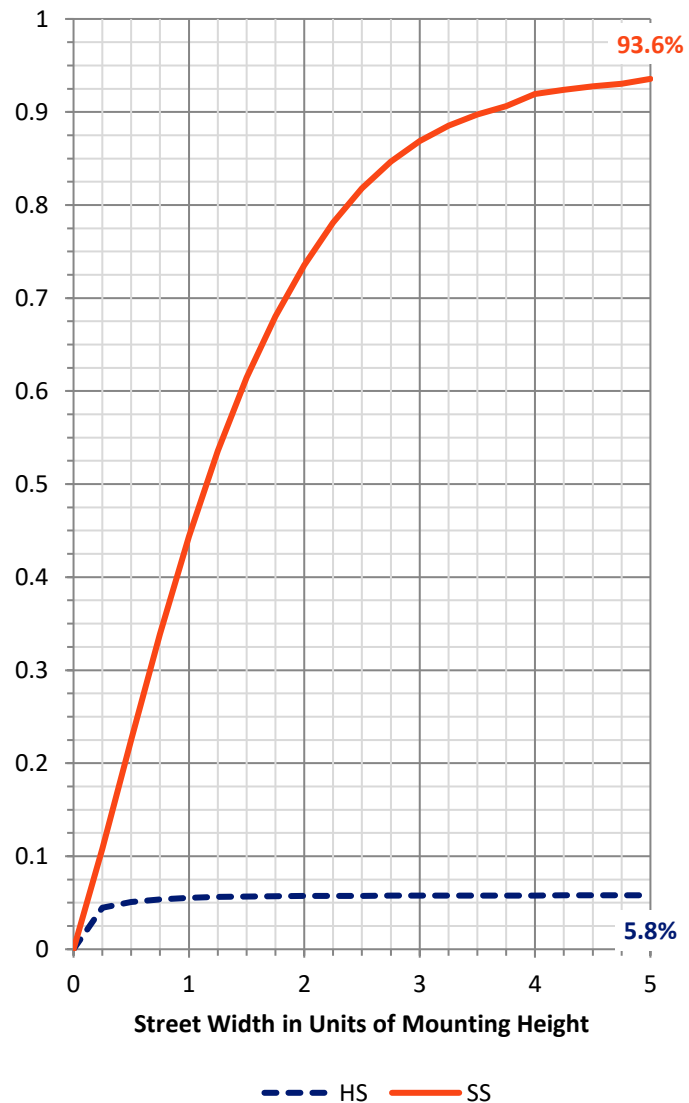
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2680.8	0.0	2680.8
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	43141.4	0.0	43141.4
	% Fixture	94.1	0.0	94.1
Total	Lumens	45822.2	0.0	45822.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.1	1.2
10°-20°	1365.0	3.0
20°-30°	2299.2	5.0
30°-40°	3763.9	8.2
40°-50°	6517.0	14.2
50°-60°	10265.0	22.4
60°-70°	13405.7	29.3
70°-80°	6904.5	15.1
80°-90°	746.9	1.6
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°	45822.2	100.0
0°-180°	45822.2	100.0

Coefficient of Utilization



REPORT NUMBER: P192967

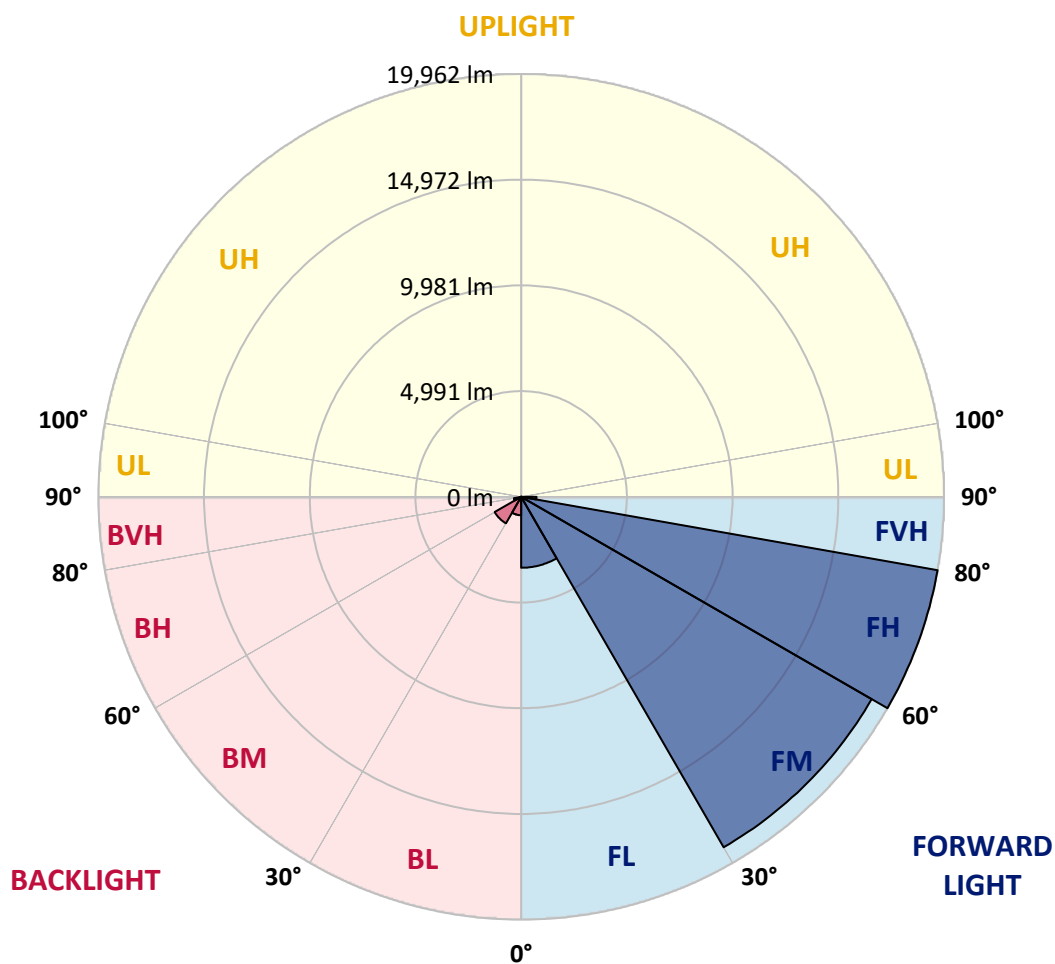
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3350.9	7.3			
FM	(30°-60°)	19105.0	41.7			
FH	(60°-80°)	19962.1	43.6			G5
FVH	(80°-90°)	723.4	1.6			G4/750
BL	(0°-30°)	868.4	1.9	B2/1000		
BM	(30°-60°)	1440.9	3.1	B2/2500		
BH	(60°-80°)	348.1	0.8	B1/500		G1/500
BVH	(80°-90°)	23.4	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-G5

Type IV Short





REPORT NUMBER: P192967

CATALOG NUMBER: GAN-AF-09-LED-U-SL4-7030-1200-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	6846.0	6846.0	6846.0	6846.0	6846.0	6846.0	6846.0	6846.0	6846.0	6846.0	6846.0
2.5°	7517.0	7476.2	7451.6	7418.8	7377.9	7342.4	7328.9	7227.9	7132.5	7001.6	6851.5
5°	7656.2	7642.4	7598.9	7555.3	7506.1	7451.6	7421.6	7301.6	7165.2	6974.2	6712.5
7.5°	7669.8	7653.4	7598.9	7538.9	7470.7	7405.3	7353.3	7233.4	7108.0	6914.3	6595.1
10°	7647.9	7628.9	7587.9	7522.5	7438.0	7375.2	7323.4	7208.8	7102.5	6927.9	6573.4
12.5°	7623.4	7604.3	7585.3	7552.5	7478.9	7435.2	7391.6	7282.4	7187.0	7039.7	6652.5
15°	7647.9	7637.1	7658.8	7645.2	7604.3	7566.1	7522.5	7424.2	7337.0	7214.3	6797.0
17.5°	7751.6	7751.6	7819.8	7828.0	7789.7	7735.2	7672.5	7574.3	7500.6	7397.1	6968.8
20°	7994.4	7986.2	8073.5	8089.8	7997.1	7912.5	7819.8	7699.8	7642.4	7577.0	7137.9
22.5°	8411.7	8373.5	8425.3	8408.9	8226.2	8095.2	7980.8	7833.5	7803.4	7773.5	7326.2
25°	8954.5	8932.6	8968.1	8807.2	8485.3	8308.1	8171.6	8005.3	8005.3	8035.3	7538.9
27.5°	9742.7	9660.9	9540.8	9257.2	8774.4	8548.0	8400.7	8223.5	8269.9	8381.8	7819.8
30°	10550.1	10460.1	10184.6	9748.1	9126.3	8889.0	8717.1	8531.7	8640.8	8845.3	8196.2
32.5°	11346.5	11245.6	10855.6	10304.6	9630.8	9393.6	9227.2	9022.6	9205.4	9549.0	8747.2
35°	12118.4	12028.4	11578.3	10929.2	10301.8	10105.5	9952.8	9775.4	10010.0	10490.1	9524.4
37.5°	12985.7	12887.5	12339.3	11635.6	11117.3	10975.5	10863.7	10686.4	11095.6	11799.2	10607.3
40°	14052.2	13885.8	13146.6	12445.7	12061.1	11993.0	11916.6	11892.0	12527.5	13501.2	12050.2
42.5°	15274.1	15001.4	13992.2	13299.4	13097.6	13146.6	13127.6	13236.6	14319.5	15617.7	13806.8
45°	16496.1	16144.1	14933.2	14210.4	14237.7	14409.5	14515.8	14952.2	16564.2	18045.3	15696.8
47.5°	17532.5	17186.2	15836.0	15195.0	15522.4	15860.5	16149.6	16976.0	18871.7	20434.5	17167.1
50°	18418.9	18091.7	16793.3	16277.9	17014.3	17559.8	18028.9	19253.5	21353.7	22253.8	18198.0
52.5°	19144.5	18926.2	17786.2	17518.8	18719.0	19518.2	20205.5	21672.8	23552.2	23732.2	18999.9
55°	19850.9	19695.4	18852.5	18994.5	20721.0	21809.2	22679.4	24239.5	25445.1	24964.9	19769.1
57.5°	20663.6	20521.8	20069.1	20865.6	23353.1	24722.2	25671.4	26514.3	27111.6	26225.1	20494.7
60°	21492.8	21411.0	21421.9	22943.9	26375.1	27689.8	28213.5	28431.7	28748.1	27411.6	20535.5
62.5°	22283.9	22439.3	22968.5	25256.8	29269.0	30278.3	30542.8	30758.2	30387.3	27599.8	18972.7
65°	23623.1	23876.8	25139.6	28352.6	32452.0	33532.1	33805.0	33065.7	30646.4	25166.9	15432.4
67.5°	24277.6	24741.3	26994.2	31238.4	35539.7	36739.7	36638.8	33215.8	27501.6	19190.9	9903.6
69°	24141.3	24635.0	27422.6	32122.0	36565.1	37653.5	37012.4	31380.2	23429.4	13902.1	6079.6
70°	23601.2	24100.4	27201.6	32089.3	36696.1	37558.0	36319.6	29113.5	19810.1	10165.5	3802.1
72.5°	19709.1	20140.0	24149.5	29004.5	33805.0	33103.9	30384.6	20170.1	9652.7	2768.4	856.5
75°	12132.0	12372.1	17328.0	21850.2	25532.4	23732.2	20243.7	10034.6	2877.6	782.9	474.6
77.5°	6409.7	6518.7	9486.3	12879.4	16185.1	13392.1	10375.5	3914.0	1325.6	490.9	343.6
80°	3788.6	3870.4	5108.6	5888.7	7004.3	5850.5	4148.6	2402.9	949.1	308.2	305.5
82.5°	2168.4	2220.1	3704.0	3273.1	2760.2	2356.6	2064.8	2277.5	570.0	207.3	316.5
85°	796.4	807.3	2083.8	2490.2	1641.9	976.4	1025.5	1887.5	152.8	130.9	248.2
87.5°	370.9	362.7	1072.0	1524.7	960.1	619.2	799.1	414.5	60.0	84.5	68.2
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°	6846.0	6846.0	6846.0	6846.0	6846.0	6846.0	6846.0	6846.0	6846.0	6846.0	6846.0
2.5°	6764.2	6663.2	6480.6	6292.3	6101.5	5954.2	5809.7	5695.0	5656.9	5586.0	5591.5
5°	6556.9	6371.5	5989.6	5602.4	5198.7	4865.9	4552.3	4298.6	4175.9	4050.3	4050.3
7.5°	6376.9	6106.9	5509.6	4879.5	4227.7	3679.5	3185.8	2814.8	2610.2	2446.6	2443.9
10°	6308.7	5943.2	5108.6	4205.8	3297.6	2550.2	1963.8	1587.4	1393.7	1268.3	1262.8
12.5°	6338.7	5886.1	4800.5	3583.9	2443.9	1639.2	1137.4	894.7	812.8	774.6	774.6
15°	6426.1	5869.6	4492.2	2975.6	1726.6	1025.5	755.5	690.1	684.6	684.6	684.6
17.5°	6532.4	5875.1	4175.9	2383.8	1175.5	733.6	651.8	643.6	649.1	649.1	649.1
20°	6641.6	5877.8	3834.9	1835.7	829.2	638.3	613.7	611.0	616.4	616.4	619.2
22.5°	6775.1	5891.5	3494.0	1372.0	684.6	602.8	583.7	583.7	586.4	586.4	583.7
25°	6927.9	5918.7	3139.3	1017.3	624.6	578.2	561.9	559.2	561.9	559.2	556.4
27.5°	7118.8	5957.0	2743.9	796.4	597.3	553.7	540.1	540.1	537.3	534.6	531.9
30°	7358.8	6000.5	2299.3	676.5	570.0	531.9	518.2	515.4	512.8	507.3	507.3
32.5°	7724.3	6096.0	1860.1	613.7	540.1	501.8	490.9	490.9	485.5	480.0	477.4
35°	8286.2	6284.1	1467.4	575.5	507.3	469.2	455.5	455.5	450.0	447.3	444.5
37.5°	9063.6	6570.7	1140.1	540.1	474.6	433.6	420.0	417.3	411.9	406.5	403.7
40°	10097.3	6925.2	897.3	507.3	441.9	398.2	387.4	381.9	370.9	362.7	362.7
42.5°	11395.6	7328.9	728.2	471.9	403.7	365.5	357.3	349.1	330.1	321.9	319.1
45°	12754.0	7691.7	616.4	430.9	365.5	332.8	327.3	313.7	289.1	280.9	280.9
47.5°	13733.2	7776.2	542.8	392.8	330.1	297.3	294.6	270.0	248.2	242.8	240.1
50°	14344.0	7609.8	482.8	354.5	297.3	264.5	256.4	226.3	212.7	207.3	204.6
52.5°	14755.9	7312.5	433.6	321.9	267.2	234.6	215.5	193.6	182.8	177.3	177.3
55°	15086.0	6892.4	384.6	291.8	242.8	210.0	182.8	166.4	155.4	150.0	150.0
57.5°	15178.7	6322.4	335.5	267.2	218.2	185.5	155.4	144.5	130.9	128.2	128.2
60°	14504.9	5294.1	297.3	237.3	196.3	160.9	136.3	122.7	109.2	106.4	103.7
62.5°	12729.4	4096.7	261.9	210.0	171.9	139.1	117.2	100.9	90.0	90.0	90.0
65°	9710.0	2746.7	229.1	182.8	150.0	117.2	100.9	81.8	76.4	76.4	79.1
67.5°	5812.4	1494.6	196.3	155.4	128.2	98.3	84.5	70.9	68.2	70.9	70.9
69°	3406.7	878.2	177.3	139.1	111.9	87.3	73.6	62.8	68.2	70.9	70.9
70°	2102.9	591.8	163.7	125.4	100.9	79.1	68.2	60.0	65.4	68.2	68.2
72.5°	586.4	305.5	130.9	98.3	81.8	65.4	54.5	54.5	62.8	65.4	65.4
75°	381.9	226.3	100.9	73.6	62.8	51.8	46.3	51.8	60.0	62.8	62.8
77.5°	316.5	185.5	81.8	60.0	51.8	49.0	43.6	46.3	54.5	57.3	57.3
80°	289.1	130.9	65.4	54.5	46.3	43.6	40.9	38.1	49.0	51.8	51.8
82.5°	275.5	103.7	57.3	49.0	43.6	38.1	35.5	38.1	43.6	46.3	49.0
85°	171.9	68.2	51.8	46.3	38.1	35.5	35.5	35.5	40.9	43.6	43.6
87.5°	62.8	54.5	46.3	38.1	32.8	32.8	32.8	32.8	35.5	40.9	40.9
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)