

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: P192885

Luminaire Tested: **GAN-AF-07-LED-U-SL3-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192885
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-07-LED-U-SL3-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA 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: 38162.1 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 448
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



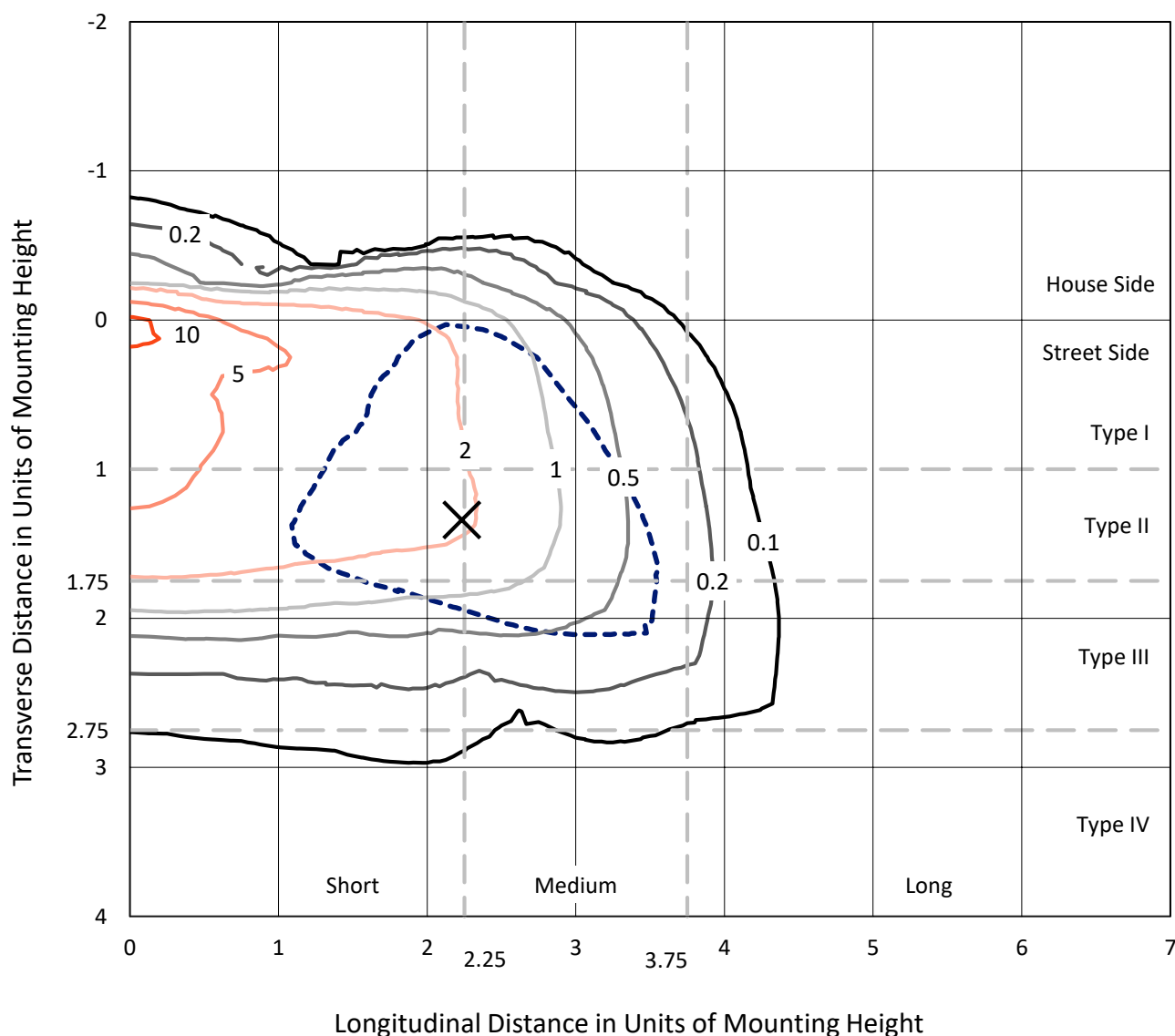
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

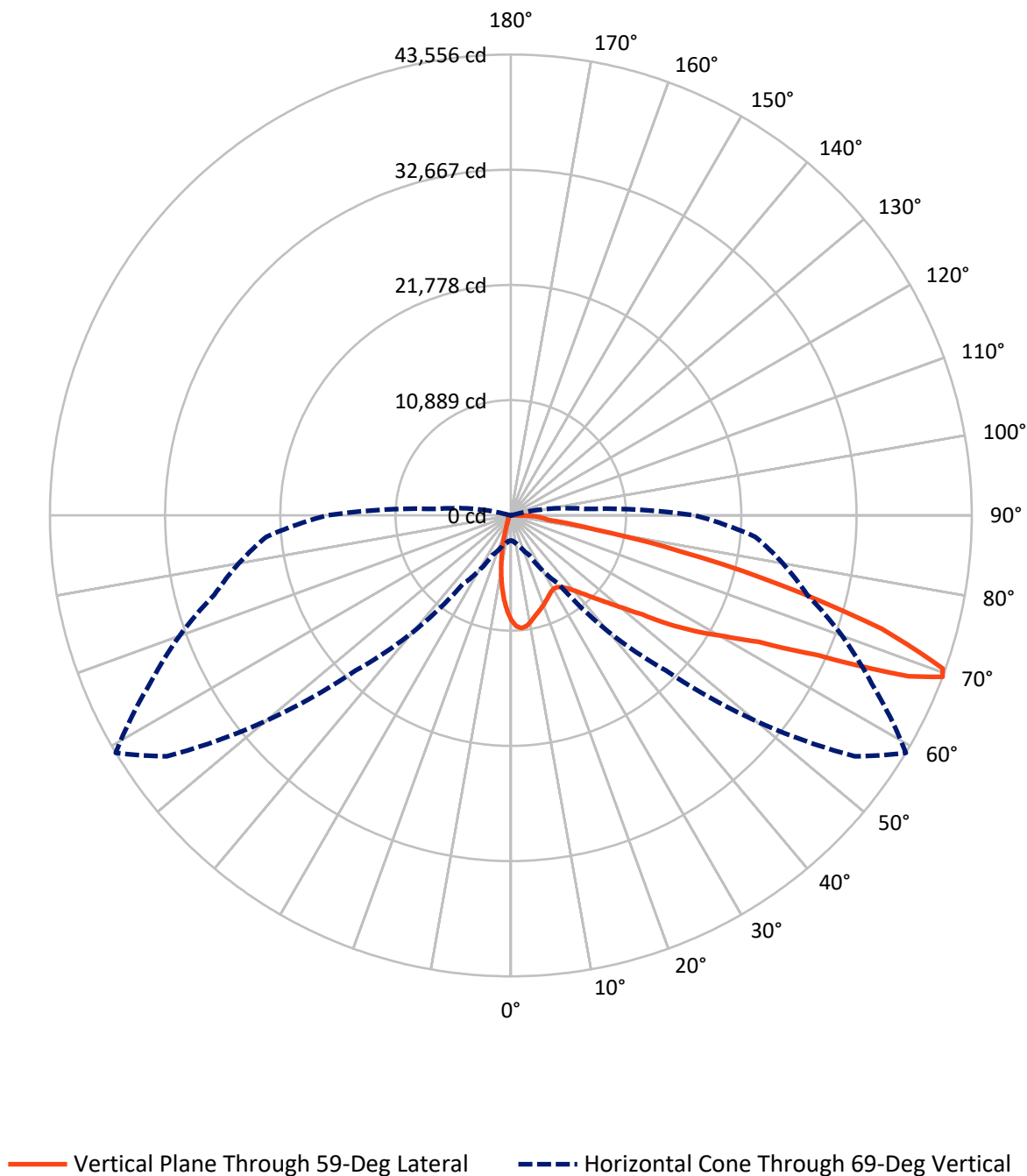


Based on 30 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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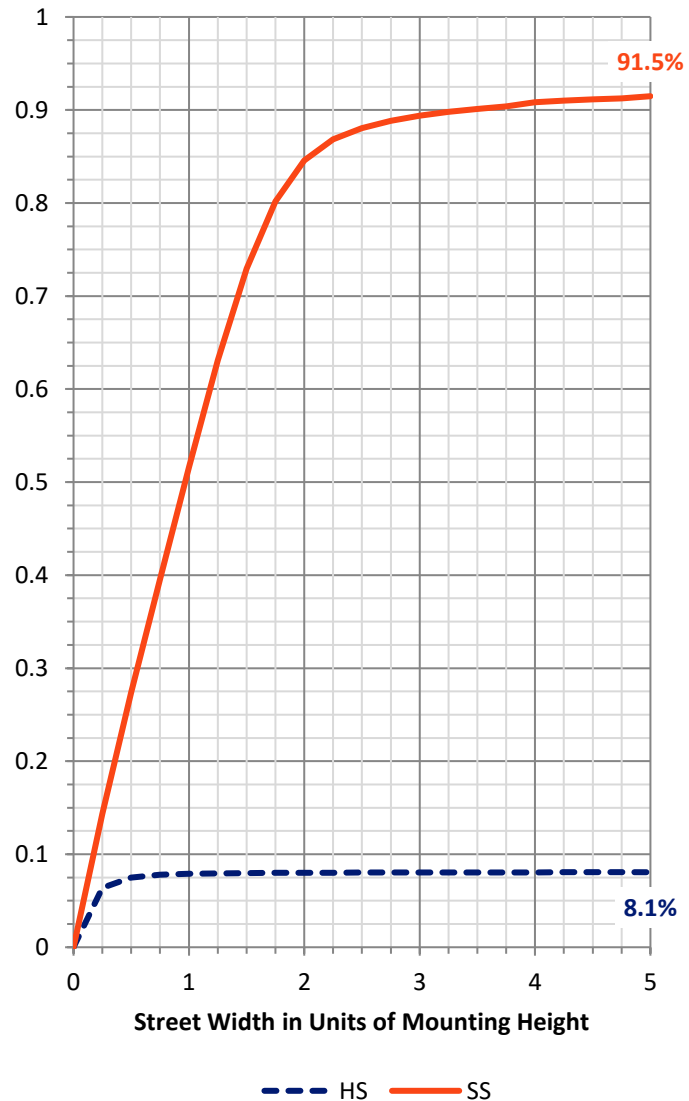
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3107.8	0.0	3107.8
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	35054.3	0.0	35054.3
	% Fixture	91.9	0.0	91.9
Total	Lumens	38162.1	0.0	38162.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	806.3	2.1
10°-20°	1666.0	4.4
20°-30°	2241.8	5.9
30°-40°	3254.9	8.5
40°-50°	5419.7	14.2
50°-60°	8454.6	22.2
60°-70°	10462.0	27.4
70°-80°	5302.0	13.9
80°-90°	554.8	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°	38162.1	100.0
0°-180°	38162.1	100.0

Coefficient of Utilization



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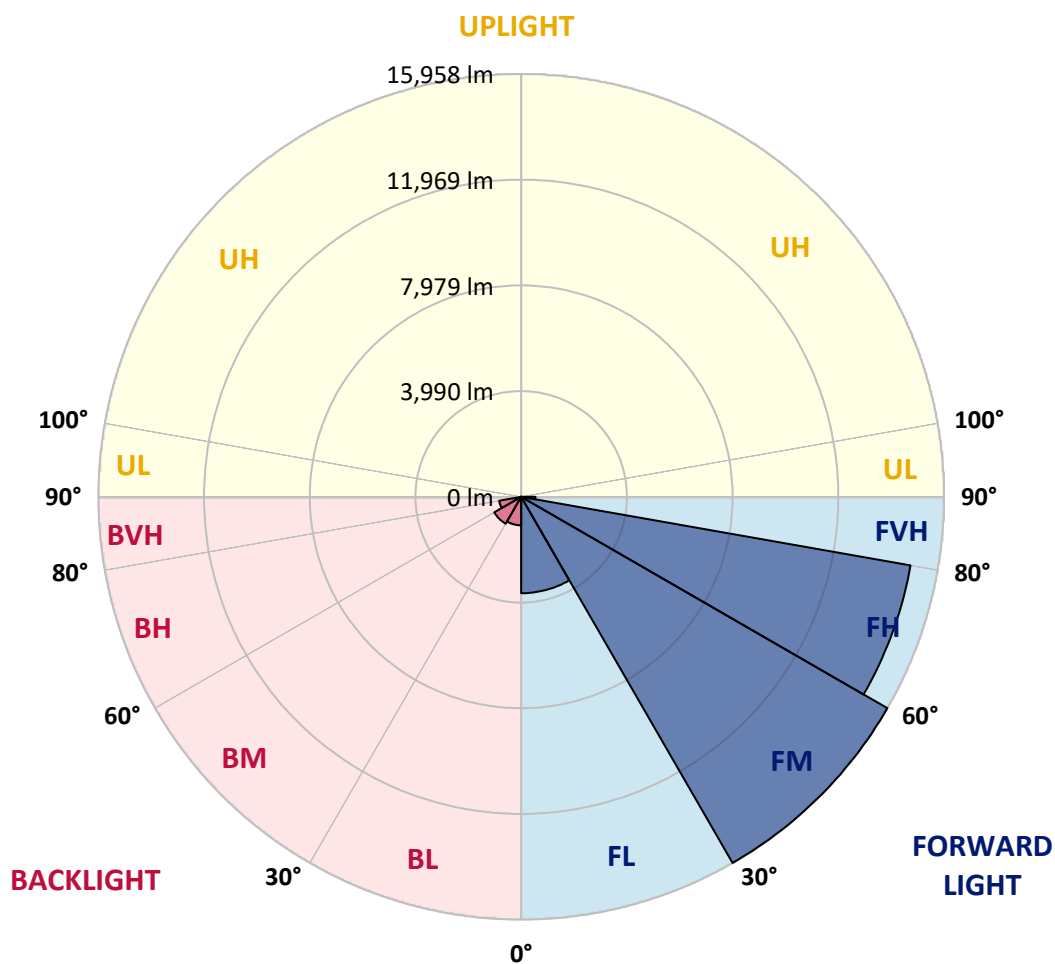
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3638.3	9.5			
FM	(30°-60°)	15958.3	41.8			
FH	(60°-80°)	14920.0	39.1			G5
FVH	(80°-90°)	537.7	1.4			G4/750
BL	(0°-30°)	1075.7	2.8	B3/2500		
BM	(30°-60°)	1171.0	3.1	B2/2500		
BH	(60°-80°)	844.0	2.2	B2/1000		G2/1000
BVH	(80°-90°)	17.1	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	9933.1	9933.1	9933.1	9933.1	9933.1	9933.1	9933.1	9933.1	9933.1	9933.1	9933.1
2.5°	10886.9	10882.6	10835.1	10813.5	10774.7	10692.6	10565.4	10498.4	10390.5	10202.8	9950.4
5°	10787.6	10839.4	10867.5	10869.6	10897.6	10867.5	10753.1	10697.0	10548.1	10246.0	9792.8
7.5°	10114.3	10133.8	10213.5	10282.6	10416.4	10543.7	10584.7	10561.0	10472.5	10148.9	9546.7
10°	9393.6	9413.0	9508.0	9598.5	9779.8	9976.3	10183.4	10226.5	10263.3	10010.8	9309.4
12.5°	8772.1	8791.5	8888.6	9007.4	9218.8	9460.4	9782.0	9853.2	10015.0	9879.1	9119.6
15°	8236.9	8245.6	8340.6	8487.3	8739.7	9050.5	9415.2	9529.5	9777.7	9786.4	8953.4
17.5°	7781.6	7803.2	7861.4	8001.7	8277.9	8662.1	9087.1	9251.2	9542.4	9708.7	8791.5
20°	7503.2	7524.8	7522.6	7600.3	7848.5	8258.5	8759.1	8955.6	9309.4	9628.8	8646.9
22.5°	7449.3	7449.3	7393.1	7382.3	7529.0	7872.2	8418.2	8657.7	9100.1	9594.3	8545.5
25°	7641.3	7632.7	7492.5	7378.1	7384.5	7589.4	8088.0	8372.9	8923.1	9618.0	8491.5
27.5°	8047.1	8036.2	7859.2	7641.3	7466.6	7464.4	7837.7	8144.0	8783.0	9730.2	8513.2
30°	8608.1	8603.7	8411.7	8137.6	7820.4	7529.0	7751.4	8029.8	8692.2	9933.1	8562.7
32.5°	9220.9	9214.5	9069.8	8780.7	8379.3	7820.4	7842.0	8075.1	8718.2	10202.8	8683.6
35°	9870.5	9859.7	9797.1	9544.7	9102.3	8357.8	8139.9	8321.0	8882.1	10606.4	8921.0
37.5°	10574.0	10584.7	10630.1	10388.4	9924.4	9110.9	8638.2	8761.3	9212.3	11154.5	9307.2
40°	11612.0	11609.8	11624.8	11307.7	10861.0	10032.3	9335.3	9374.1	9764.7	11881.7	9894.2
42.5°	13495.8	13364.1	12965.0	12317.6	11868.8	11085.5	10213.5	10172.6	10440.2	12781.5	10716.3
45°	16027.1	15746.6	14710.7	13469.9	12896.0	12272.3	11294.6	11163.1	11333.6	13862.7	11730.6
47.5°	18204.4	17913.2	16447.9	14669.8	13985.7	13398.7	12561.4	12324.1	12380.1	15073.3	13016.8
50°	18944.7	18802.2	17522.6	15714.2	15040.9	14816.5	14031.0	13741.9	13662.0	16473.8	14507.9
52.5°	18687.9	18677.1	17824.7	16391.8	16007.7	16283.9	15880.4	15545.9	15252.4	17949.8	16024.9
55°	18275.7	18329.7	17947.7	16985.2	16972.4	17623.9	18409.5	18131.1	17280.9	19553.2	17332.7
57.5°	17138.5	17369.4	17878.6	18107.4	18638.2	19305.0	20515.6	20679.7	19674.1	20781.1	18418.2
60°	13905.9	14412.9	16078.9	18269.2	20785.4	22447.0	23057.7	23198.0	21637.8	21801.8	19883.4
62.5°	9870.5	10388.4	12501.0	16206.2	20817.8	26575.2	26844.9	26294.7	23800.1	23314.5	22410.3
65°	5239.5	5638.8	7365.0	11698.3	18049.1	27533.4	33467.8	31827.7	27615.3	26290.4	25675.4
67.5°	2680.1	2801.0	3487.2	5725.0	12408.2	24456.0	39404.3	40558.7	34190.6	29242.4	25517.8
69°	2371.6	2442.8	2898.1	4139.0	7945.6	20714.3	39693.5	43556.1	37632.6	28996.5	23189.4
70°	2296.1	2358.7	2773.0	3746.2	6210.7	17371.5	38586.3	43292.9	38513.1	28059.9	21450.1
72.5°	1948.6	2002.6	2468.7	3310.3	5047.4	8623.2	31344.3	36685.2	34559.6	23374.9	15526.5
75°	1303.4	1480.4	2369.4	3103.2	4695.8	4898.5	20664.5	26510.4	24626.6	15766.0	8088.0
77.5°	312.9	336.6	669.0	2468.7	4294.3	4311.6	10627.9	16480.3	13441.8	5619.3	1911.9
80°	168.4	161.8	187.7	489.8	3998.7	4046.2	4784.1	7999.5	4799.3	932.2	630.1
82.5°	118.6	112.2	120.8	205.0	1258.1	3685.8	3461.4	3621.1	1989.6	358.3	282.7
85°	43.1	41.0	66.8	185.6	394.9	2119.1	3556.3	2986.6	1612.0	164.0	207.1
87.5°	15.1	13.0	25.9	101.4	120.8	902.1	2194.7	2257.2	634.5	99.3	97.1
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°	9933.1	9933.1	9933.1	9933.1	9933.1	9933.1	9933.1	9933.1	9933.1	9933.1	9933.1
2.5°	9844.6	9710.8	9464.8	9212.3	8979.3	8698.6	8558.5	8420.3	8362.0	8340.6	8239.0
5°	9559.7	9333.2	8810.8	8286.6	7803.2	7289.6	6950.7	6678.9	6519.2	6441.5	6318.5
7.5°	9195.0	8823.9	8031.8	7222.7	6469.6	5727.3	5176.9	4754.0	4462.7	4322.4	4195.0
10°	8841.1	8347.0	7220.5	6117.8	5095.0	4110.9	3351.3	2801.0	2449.3	2287.5	2183.9
12.5°	8524.0	7883.0	6437.2	5041.0	3757.0	2604.6	1832.1	1394.0	1176.0	1100.6	1063.8
15°	8241.2	7455.8	5697.0	4018.1	2544.2	1488.9	1001.3	852.4	818.0	818.0	813.6
17.5°	7973.6	7037.1	4982.8	3057.8	1597.0	910.6	761.7	742.3	742.3	750.9	750.9
20°	7716.9	6637.8	4292.1	2194.7	1005.6	723.0	688.4	684.1	688.4	699.1	699.1
22.5°	7496.8	6275.3	3647.0	1506.2	746.7	651.7	634.5	627.9	630.1	636.6	641.0
25°	7332.7	5969.0	3038.4	1020.7	643.1	593.4	574.0	563.2	554.6	554.6	558.9
27.5°	7229.1	5710.0	2449.3	742.3	578.3	539.5	509.2	492.0	472.5	461.8	466.1
30°	7153.6	5463.9	1896.8	606.4	517.9	479.1	440.2	412.1	384.1	371.2	375.6
32.5°	7125.6	5265.4	1417.7	535.2	464.0	420.7	373.3	336.6	306.5	295.6	297.8
35°	7201.1	5107.9	1038.0	483.4	420.7	366.9	312.9	271.9	248.1	241.7	243.8
37.5°	7399.6	5023.7	776.9	440.2	382.0	321.6	261.1	222.3	207.1	207.1	209.3
40°	7775.1	5021.5	623.7	410.0	347.5	278.4	215.8	187.7	179.0	183.4	185.6
42.5°	8323.3	5135.9	543.8	382.0	317.2	237.4	179.0	159.7	157.6	161.8	164.0
45°	9072.1	5345.3	500.6	358.3	284.8	198.6	151.1	138.1	138.1	144.5	146.7
47.5°	9989.1	5651.7	464.0	334.5	252.5	166.2	129.5	120.8	123.0	129.5	131.6
50°	11094.0	6038.0	427.3	308.5	228.8	138.1	112.2	105.8	107.9	116.6	118.6
52.5°	12352.1	6558.1	397.0	284.8	198.6	114.4	94.9	90.6	94.9	103.6	105.8
55°	13431.1	7024.2	360.3	265.4	159.7	94.9	77.7	77.7	82.1	92.8	94.9
57.5°	14469.1	7511.8	328.0	228.8	125.2	75.5	64.8	66.8	73.4	84.1	86.4
60°	15992.6	8338.3	289.2	192.1	94.9	60.4	54.0	56.2	64.8	75.5	77.7
62.5°	18580.0	9596.5	250.3	159.7	73.4	47.5	43.1	47.5	58.2	71.2	73.4
65°	20914.9	10107.9	205.0	133.9	56.2	36.7	36.7	43.1	56.2	69.1	71.2
67.5°	19613.6	8508.8	159.7	105.8	43.1	28.1	30.3	41.0	54.0	69.1	71.2
69°	17345.7	6957.2	135.9	84.1	36.7	25.9	28.1	41.0	54.0	66.8	69.1
70°	15578.3	5874.0	120.8	71.2	32.3	25.9	28.1	38.9	54.0	66.8	69.1
72.5°	10433.7	3172.3	97.1	51.8	30.3	23.7	23.7	38.9	51.8	64.8	66.8
75°	4484.2	876.1	77.7	36.7	25.9	21.7	21.7	36.7	49.6	62.6	66.8
77.5°	820.0	222.3	62.6	32.3	25.9	21.7	19.4	34.5	47.5	60.4	62.6
80°	325.8	110.1	49.6	28.1	23.7	19.4	17.3	32.3	45.4	58.2	60.4
82.5°	196.3	62.6	41.0	25.9	23.7	17.3	15.1	28.1	43.1	56.2	58.2
85°	159.7	43.1	32.3	25.9	21.7	17.3	13.0	25.9	38.9	54.0	56.2
87.5°	77.7	30.3	30.3	23.7	21.7	17.3	13.0	23.7	36.7	51.8	54.0
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)