

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: P322022

Luminaire Tested: **GAN-SA8D-760-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322022
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-760-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44237 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

Input Watts (W): 511
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

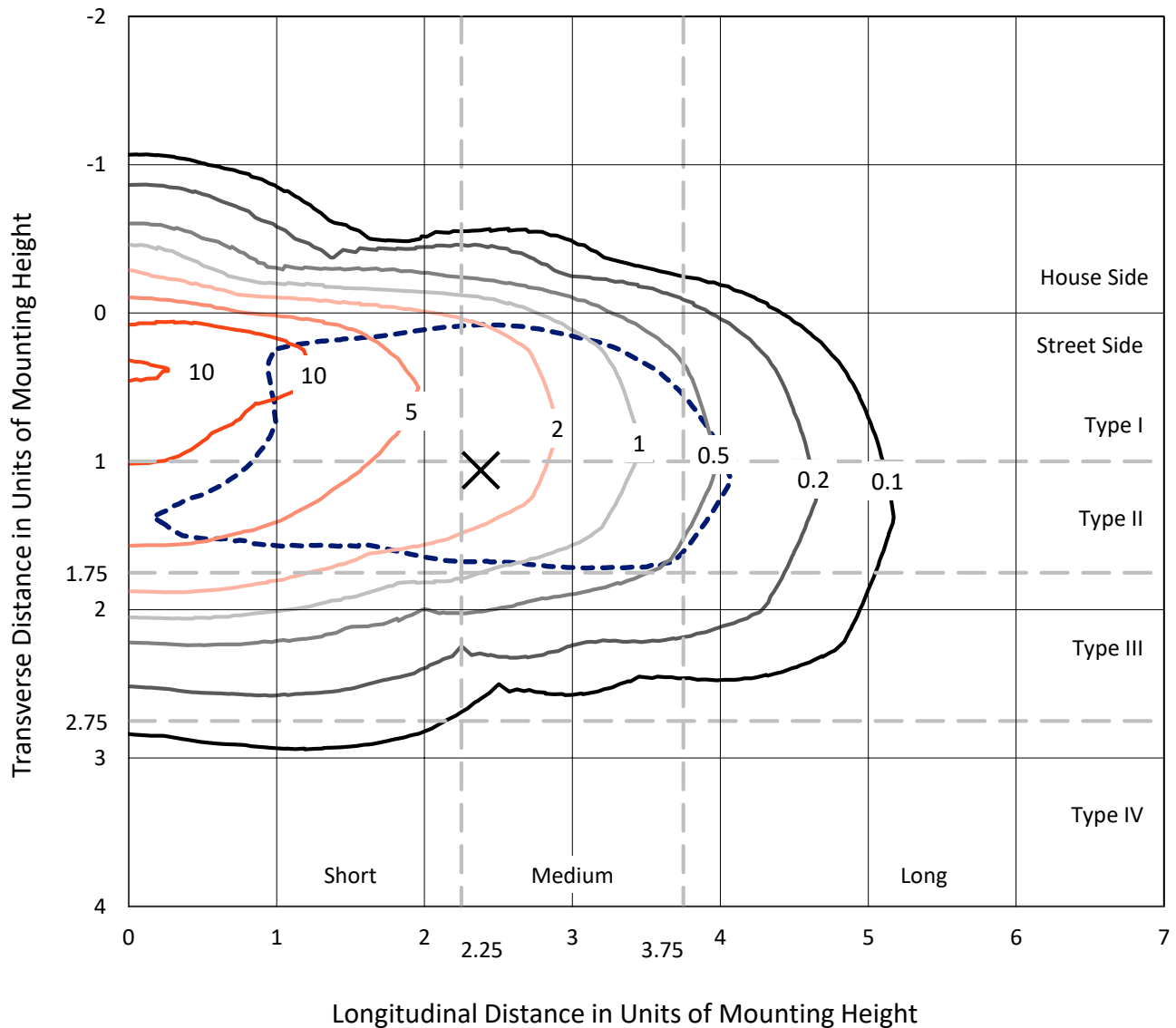


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Iso-Footcandle Lines of Horizontal Illumination

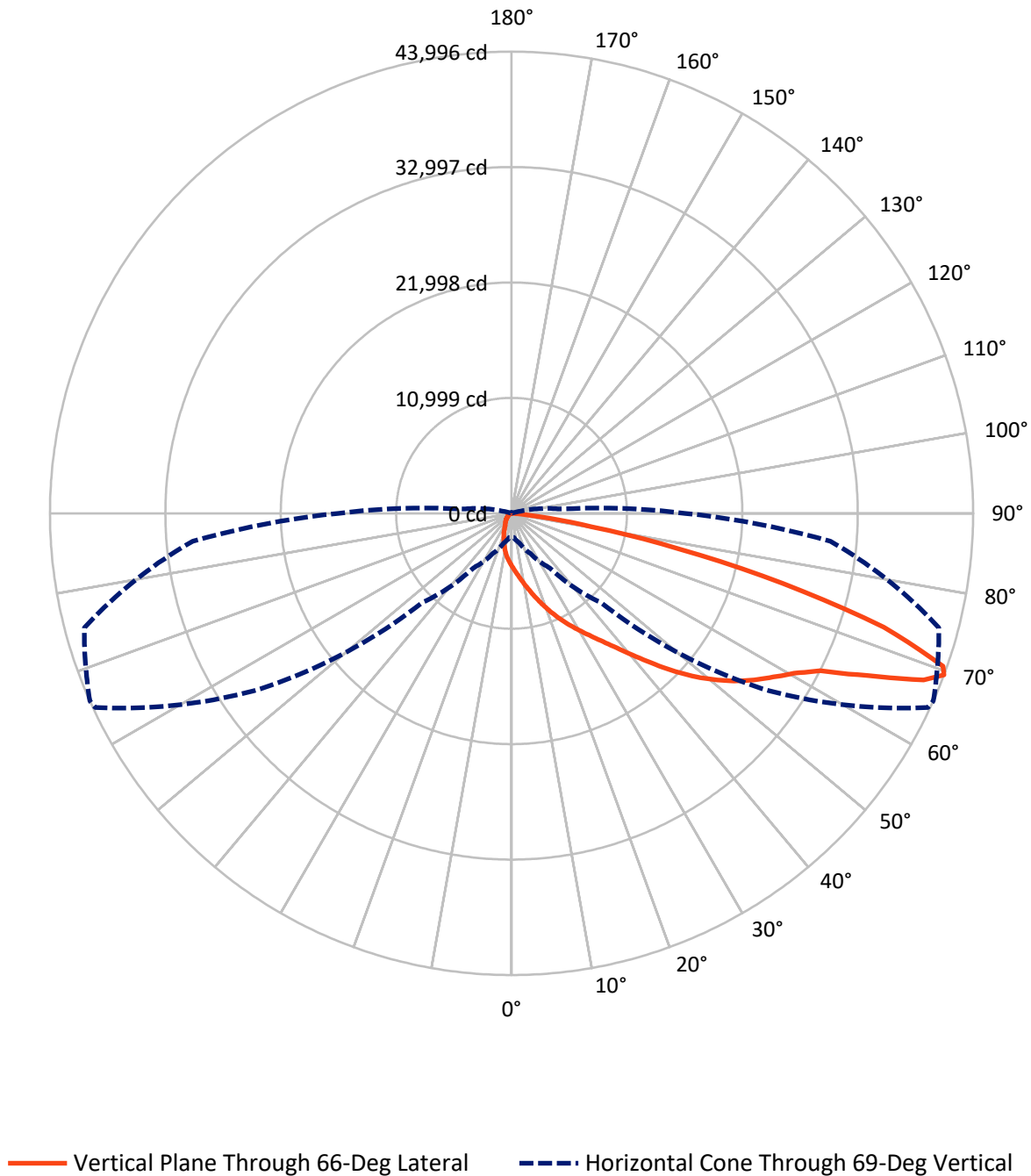
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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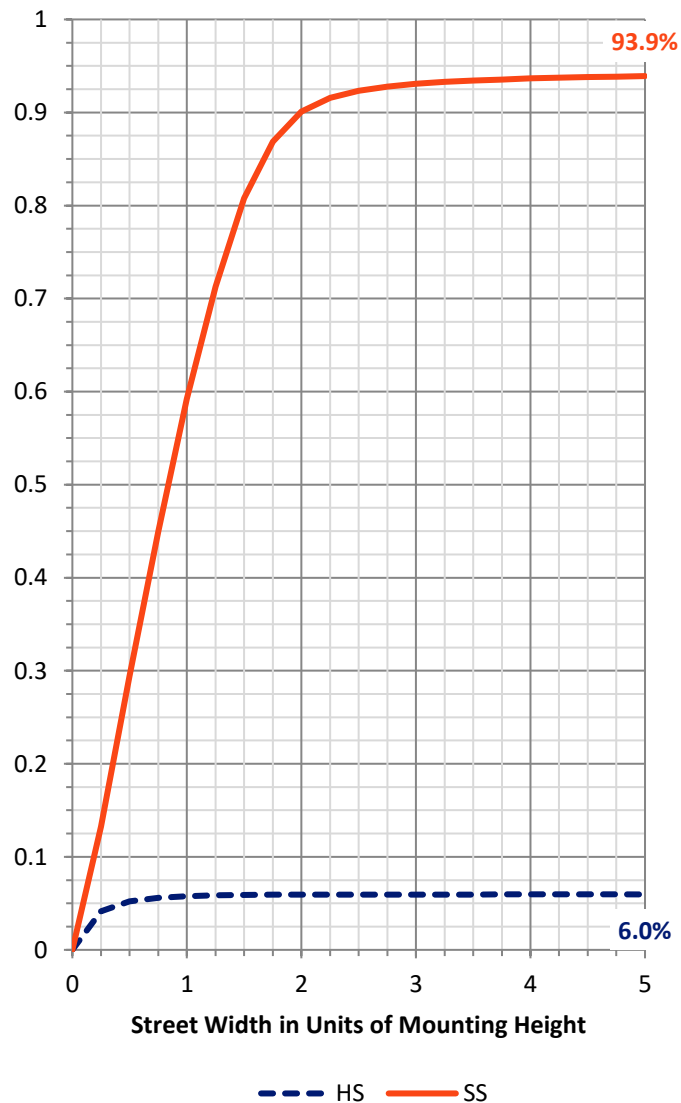
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2653.6	0.0	2653.6
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	41583.4	0.0	41583.4
	% Fixture	94.0	0.0	94.0
Total	Lumens	44237.0	0.0	44237.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.6	1.1
10°-20°	1448.3	3.3
20°-30°	2522.0	5.7
30°-40°	4424.9	10.0
40°-50°	7406.6	16.7
50°-60°	10887.0	24.6
60°-70°	11178.2	25.3
70°-80°	5518.4	12.5
80°-90°	364.9	0.8
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°	44237.0	100.0
0°-180°	44237.0	100.0

Coefficient of Utilization



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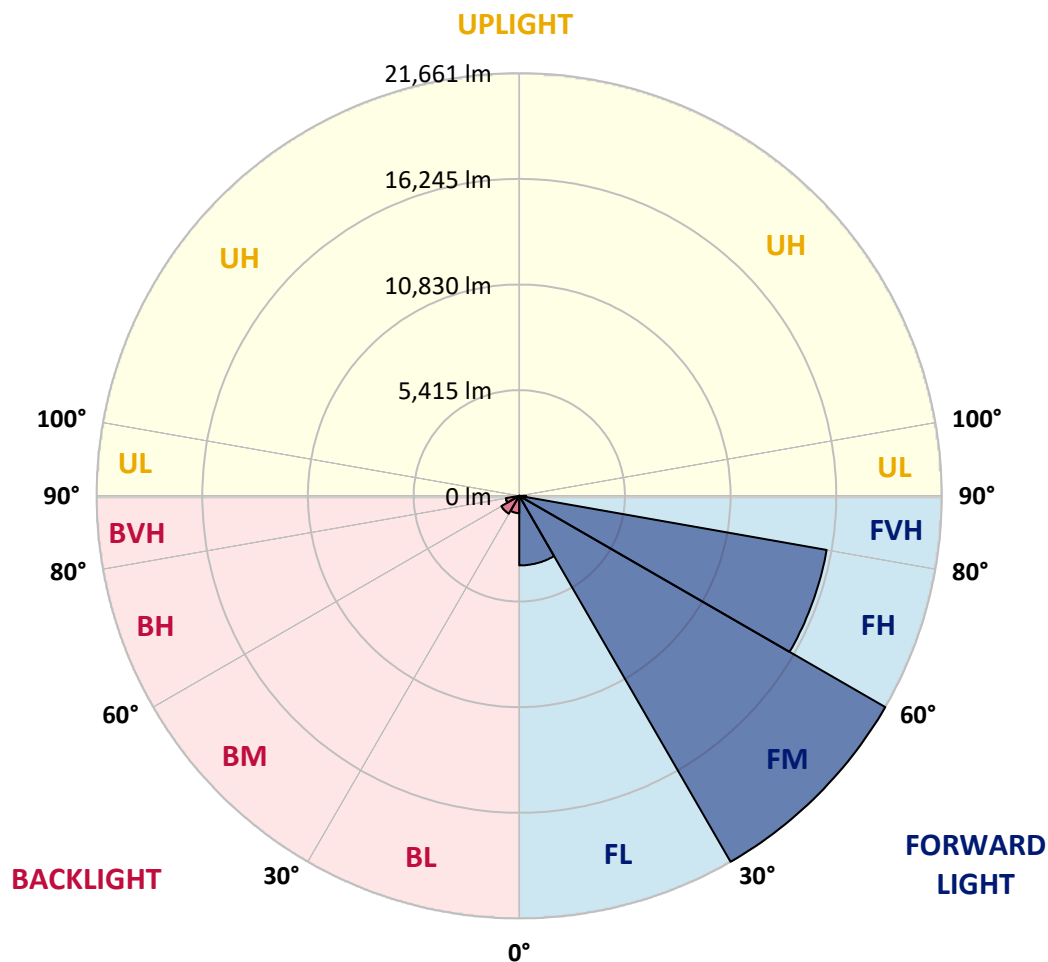
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3569.5	8.1			
FM	(30°-60°)	21660.5	49.0			
FH	(60°-80°)	15997.3	36.2			G5
FVH	(80°-90°)	356.1	0.8			G3/500
BL	(0°-30°)	887.5	2.0	B2/1000		
BM	(30°-60°)	1058.0	2.4	B2/2500		
BH	(60°-80°)	699.3	1.6	B2/1000		G2/1000
BVH	(80°-90°)	8.8	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5034.3	5034.3	5034.3	5034.3	5034.3	5034.3	5034.3	5034.3	5034.3	5034.3	5034.3
2.5°	5925.2	5900.0	5889.5	5843.2	5763.4	5702.5	5584.8	5448.2	5423.0	5290.7	5128.9
5°	6694.2	6673.2	6658.5	6593.4	6511.4	6358.0	6143.7	5889.5	5841.1	5589.0	5265.4
7.5°	7230.0	7267.8	7267.8	7225.8	7122.8	7007.3	6744.6	6397.9	6337.0	5950.4	5448.2
10°	7543.1	7589.3	7625.0	7660.7	7646.0	7599.8	7351.9	6961.1	6887.5	6374.8	5660.5
12.5°	7572.5	7618.7	7719.6	7868.7	8013.7	8118.8	7963.3	7585.1	7501.0	6866.5	5912.6
15°	7408.6	7456.9	7612.4	7902.4	8253.2	8560.0	8610.4	8276.4	8190.2	7452.7	6227.8
17.5°	7122.8	7154.4	7377.1	7778.4	8328.9	8892.0	9196.7	9018.1	8938.2	8123.0	6578.6
20°	6910.6	6933.7	7129.1	7559.9	8282.7	9100.0	9751.4	9806.0	9721.9	8841.6	6958.9
22.5°	7274.1	7316.1	7322.4	7526.3	8156.6	9203.0	10238.8	10581.3	10518.3	9604.3	7333.0
25°	8268.0	8316.3	8156.6	8030.5	8263.8	9249.2	10656.9	11375.5	11325.1	10425.8	7709.1
27.5°	9581.2	9631.6	9425.7	9049.6	8824.8	9423.6	11028.8	12182.4	12180.3	11295.7	8114.6
30°	10871.3	10921.7	10711.6	10335.5	9818.6	9917.3	11350.3	13027.0	13039.6	12192.9	8545.3
32.5°	12224.4	12287.4	12071.0	11587.7	11047.8	10770.4	11802.1	13875.9	13947.3	13232.9	9030.7
35°	13762.4	13770.8	13466.2	12959.8	12337.8	11911.3	12526.9	14827.7	14997.9	14520.9	9646.3
37.5°	15271.0	15332.0	15081.9	14283.5	13712.0	13228.7	13604.8	16016.9	16258.6	16094.7	10451.0
40°	16388.8	16517.0	16481.3	15619.8	15077.7	14733.1	14943.3	17431.0	17737.8	17926.9	11465.9
42.5°	17090.6	17187.3	17351.1	16832.2	16340.5	16397.2	16523.3	19078.3	19456.5	20015.4	12632.0
45°	17895.3	17941.6	18078.1	17849.1	17517.1	18088.6	18200.0	20933.6	21330.7	22261.5	13926.3
47.5°	18878.7	18987.9	19025.8	18815.6	18664.4	19584.7	19815.8	22620.8	23177.6	24667.3	15296.2
50°	20130.9	20160.4	20225.5	20088.9	19937.6	20870.5	21265.6	24392.0	24898.4	27081.5	16647.3
52.5°	21355.9	21461.0	21687.9	21601.7	21540.8	21965.2	22557.8	25988.9	26554.1	29094.4	17996.2
55°	21708.9	21799.2	22583.0	23118.8	23614.6	23314.2	23793.2	27419.8	28031.2	30892.9	19294.7
57.5°	20299.0	20481.8	21839.2	23234.3	25291.3	25411.1	25490.9	28888.5	29436.9	32271.3	20645.7
60°	16735.5	16771.2	18998.4	21391.6	25014.0	27241.2	27970.3	30466.4	30926.6	33555.1	22263.6
62.5°	10644.3	11007.8	13451.4	16830.1	22080.8	26976.4	30968.6	32853.3	33021.4	35095.2	24583.2
65°	5070.0	5305.4	7066.1	10398.5	15993.8	23587.3	33038.2	37171.1	37246.8	38148.2	27682.4
67.5°	2807.1	2920.6	3758.9	5597.4	9350.0	16680.9	32202.0	42285.3	42356.7	41266.2	30401.3
69°	2195.7	2292.3	2952.1	4219.1	6339.1	11989.1	29140.6	43783.4	43995.6	42159.2	30497.9
70°	1863.7	1958.3	2542.4	3563.5	5097.3	9263.9	25938.5	43411.5	43636.3	42075.2	29777.2
72.5°	1140.9	1195.5	1693.5	2508.8	3416.4	4660.3	15995.9	36713.1	37093.4	38595.7	25591.8
75°	769.0	798.4	1059.0	1731.3	2443.6	2399.5	8310.0	25877.5	26701.2	30023.1	18901.8
77.5°	550.5	577.8	710.2	1119.9	1712.4	1584.3	3763.1	16082.1	16258.6	18006.7	10308.2
80°	313.1	338.3	502.2	666.1	1161.9	1056.9	1496.0	7681.7	7770.0	7721.7	3441.7
82.5°	163.9	184.9	275.2	439.1	745.9	691.3	621.9	2571.8	2584.4	2149.5	754.3
85°	31.5	37.8	136.6	300.5	384.5	300.5	254.2	603.0	615.6	544.2	187.0
87.5°	0.0	2.1	54.6	67.2	75.6	77.7	81.9	117.7	126.1	170.2	50.4
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°	5034.3	5034.3	5034.3	5034.3	5034.3	5034.3	5034.3	5034.3	5034.3	5034.3	5034.3
2.5°	5057.4	4981.8	4836.8	4668.7	4538.4	4410.3	4309.4	4204.4	4166.5	4147.6	4145.5
5°	5107.9	4948.2	4641.4	4326.2	4067.8	3824.1	3649.7	3483.7	3405.9	3370.2	3355.5
7.5°	5191.9	4935.6	4441.8	3960.6	3588.7	3284.1	3042.4	2861.7	2771.4	2733.6	2718.9
10°	5290.7	4918.8	4208.6	3574.0	3099.2	2784.0	2544.5	2365.9	2267.1	2225.1	2204.1
12.5°	5406.2	4889.3	3939.6	3183.2	2681.0	2365.9	2075.9	1855.3	1741.8	1693.5	1670.4
15°	5549.1	4859.9	3658.1	2815.5	2313.3	1928.8	1611.6	1462.4	1439.3	1430.9	1433.0
17.5°	5689.9	4813.7	3351.3	2452.0	1926.7	1506.5	1344.7	1336.3	1340.5	1340.5	1340.5
20°	5815.9	4708.6	3017.2	2141.1	1559.0	1271.2	1237.6	1222.9	1212.4	1203.9	1193.4
22.5°	5914.7	4567.9	2695.8	1832.2	1273.3	1164.0	1111.5	1065.3	1027.5	1002.2	989.6
25°	5981.9	4380.9	2401.6	1535.9	1145.1	1059.0	964.4	886.7	827.8	792.1	777.4
27.5°	6032.4	4179.2	2139.0	1285.9	1056.9	937.1	813.1	720.7	659.8	628.2	615.6
30°	6068.1	3950.1	1907.8	1130.4	958.1	808.9	676.6	586.2	542.1	525.3	516.9
32.5°	6101.7	3695.9	1689.3	1056.9	865.7	691.3	567.3	498.0	470.7	449.6	443.3
35°	6185.7	3460.6	1481.3	979.1	771.1	590.4	487.5	437.0	409.7	397.1	392.9
37.5°	6385.3	3286.2	1281.7	899.3	676.6	510.6	426.5	390.8	365.6	353.0	348.8
40°	6706.8	3197.9	1113.6	813.1	584.1	449.6	386.6	353.0	325.7	306.8	302.6
42.5°	7179.6	3210.5	995.9	727.0	510.6	401.3	348.8	308.9	279.5	262.6	258.4
45°	7753.2	3303.0	914.0	642.9	449.6	363.5	306.8	264.7	237.4	222.7	218.5
47.5°	8375.1	3452.2	846.8	567.3	401.3	327.8	264.7	220.6	197.5	184.9	182.8
50°	9030.7	3597.1	777.4	493.8	359.3	292.1	222.7	182.8	163.9	153.4	149.2
52.5°	9694.6	3765.2	714.4	426.5	323.6	250.0	184.9	149.2	134.5	126.1	121.9
55°	10409.0	3891.3	653.5	374.0	287.9	212.2	153.4	124.0	111.4	100.9	98.8
57.5°	11249.5	4086.7	590.4	323.6	245.8	176.5	126.1	98.8	88.2	77.7	75.6
60°	12384.1	4315.7	523.2	285.8	201.7	145.0	103.0	79.8	67.2	58.8	56.7
62.5°	13880.1	4570.0	439.1	250.0	163.9	117.7	81.9	63.0	48.3	37.8	37.8
65°	15777.4	4983.9	359.3	210.1	134.5	96.7	63.0	46.2	27.3	16.8	16.8
67.5°	16884.7	5055.3	290.0	172.3	109.3	81.9	52.5	31.5	8.4	2.1	0.0
69°	16529.6	4641.4	245.8	147.1	94.6	77.7	48.3	23.1	4.2	0.0	0.0
70°	15861.4	4244.3	216.4	130.3	86.1	73.5	46.2	16.8	4.2	0.0	0.0
72.5°	13106.9	3021.4	163.9	96.7	63.0	65.1	42.0	10.5	4.2	0.0	0.0
75°	9547.5	1836.4	117.7	67.2	39.9	48.3	29.4	4.2	2.1	0.0	0.0
77.5°	5311.7	865.7	73.5	37.8	25.2	29.4	14.7	0.0	0.0	0.0	0.0
80°	1725.0	235.3	33.6	21.0	14.7	16.8	6.3	0.0	0.0	0.0	0.0
82.5°	319.4	67.2	18.9	10.5	4.2	4.2	0.0	0.0	0.0	0.0	0.0
85°	69.3	27.3	10.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.1	8.4	2.1	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)