

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: P318822

Luminaire Tested: **GAN-SA8D-760-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318822
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-760-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62557 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

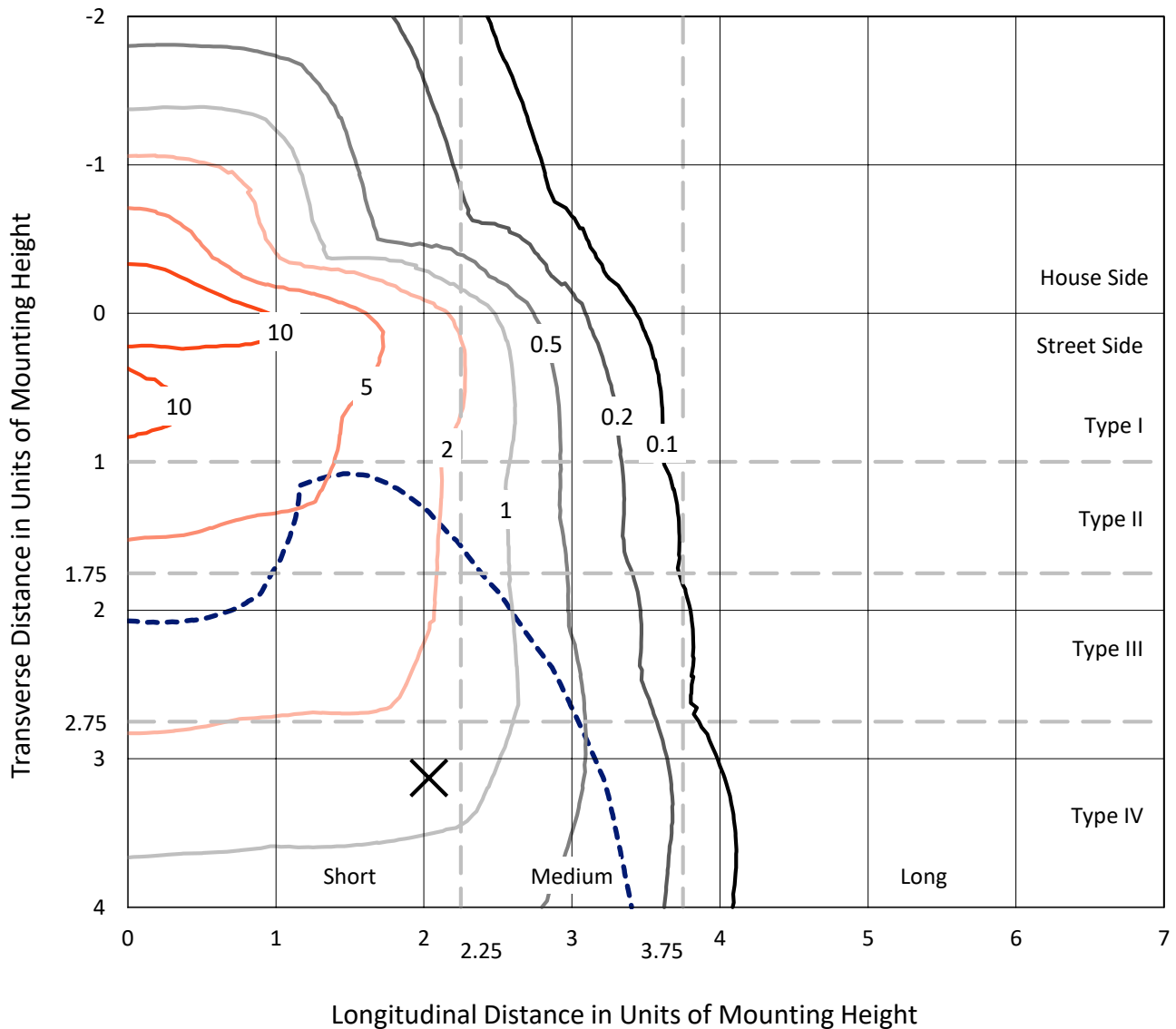
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

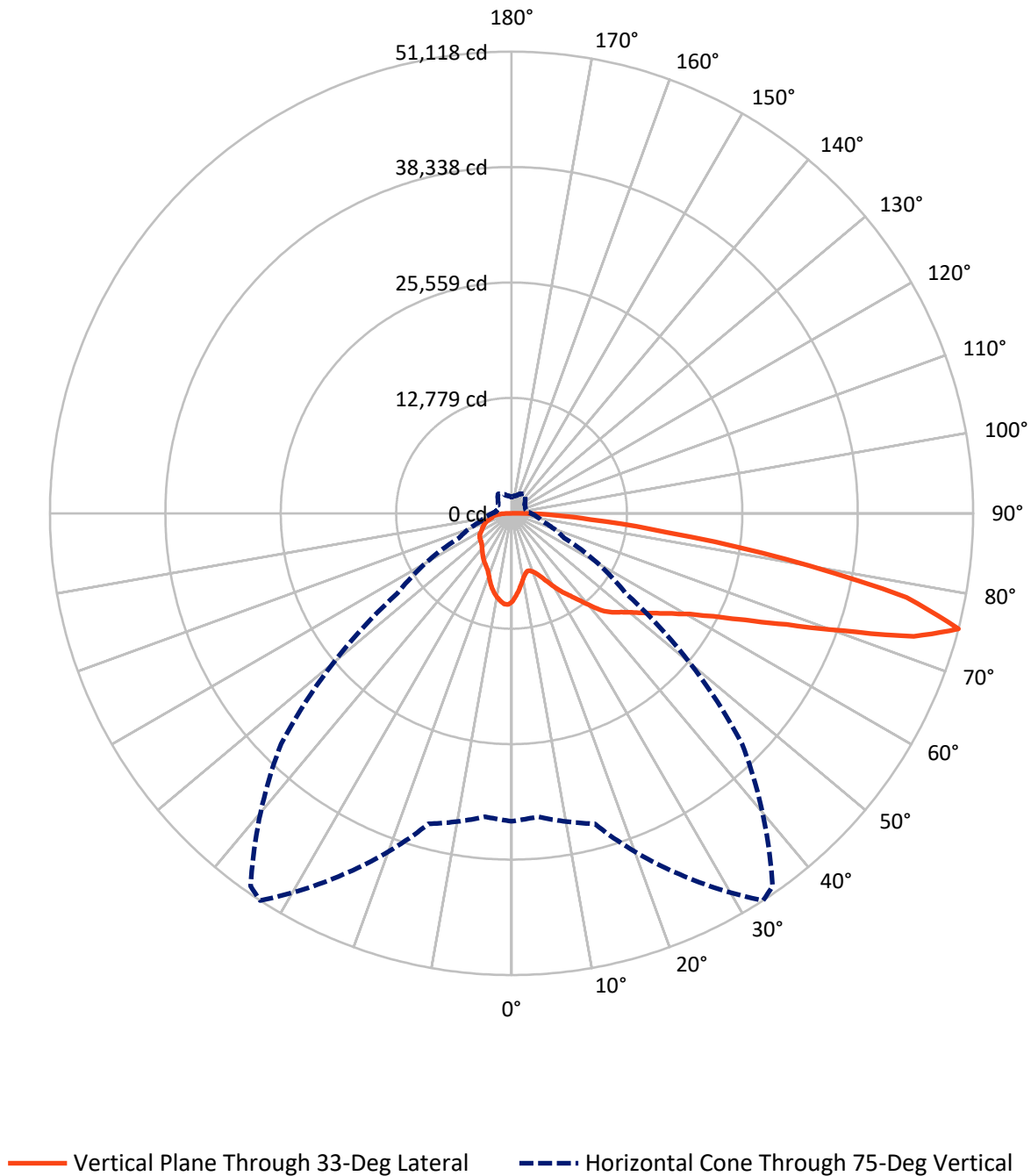
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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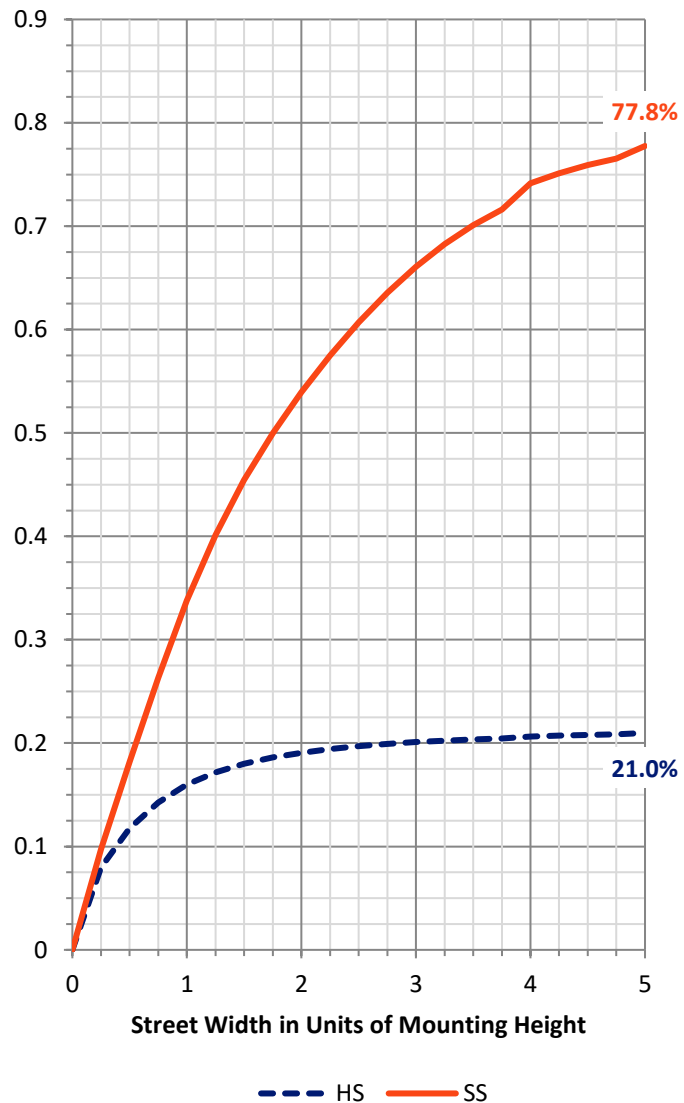
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13432.6	0.0	13432.6
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	49124.4	0.0	49124.4
	% Fixture	78.5	0.0	78.5
Total	Lumens	62557.0	0.0	62557.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	884.3	1.4
10°-20°	2395.0	3.8
20°-30°	3911.5	6.3
30°-40°	5825.1	9.3
40°-50°	8354.8	13.4
50°-60°	11469.8	18.3
60°-70°	14359.7	23.0
70°-80°	12990.5	20.8
80°-90°	2366.3	3.8
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°	62557.0	100.0
0°-180°	62557.0	100.0

Coefficient of Utilization



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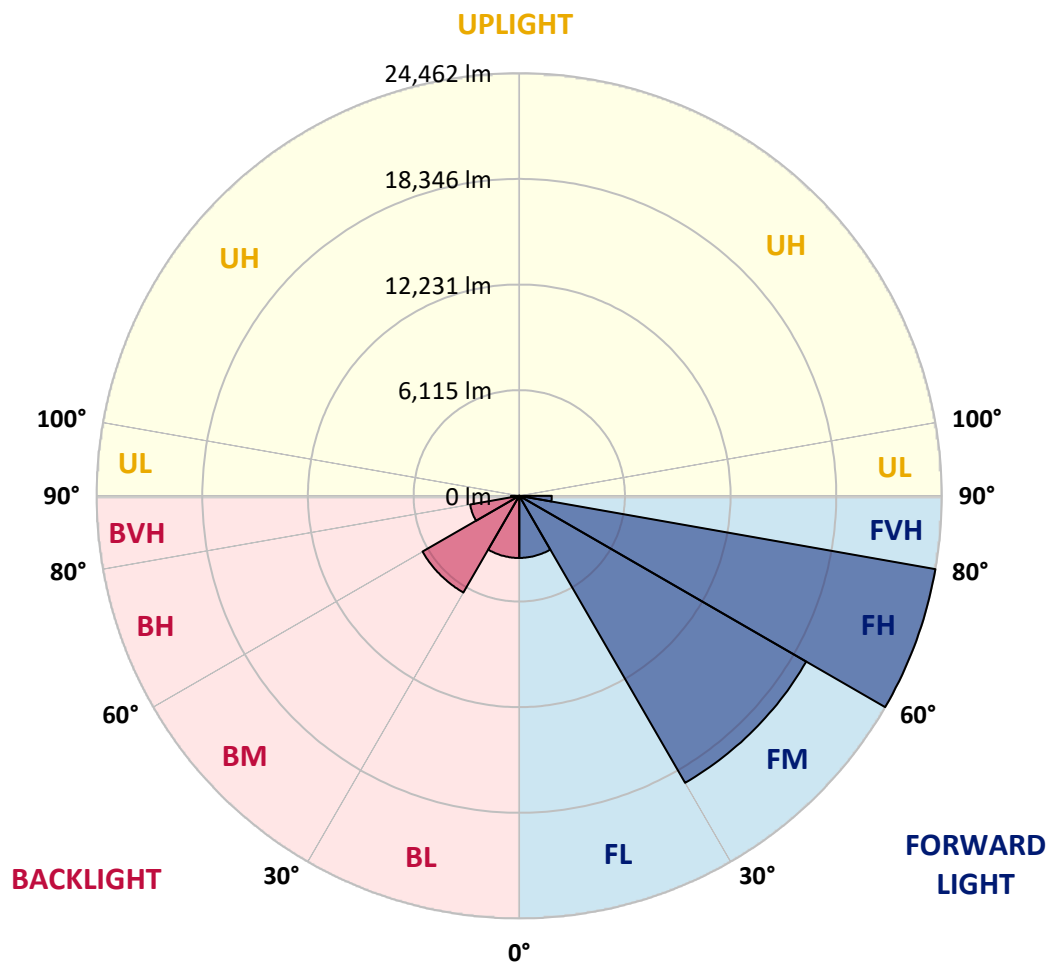
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3592.9	5.7			
FM	(30°-60°)	19184.9	30.7			
FH	(60°-80°)	24462.0	39.1			G5
FVH	(80°-90°)	1884.5	3.0			G5
BL	(0°-30°)	3597.9	5.8	B4/5000		
BM	(30°-60°)	6464.7	10.3	B4/8500		
BH	(60°-80°)	2888.3	4.6	B4/5000		G4/5000
BVH	(80°-90°)	481.8	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	9778.0	9778.0	9778.0	9778.0	9778.0	9778.0	9778.0	9778.0	9778.0	9778.0	9778.0
2.5°	9080.0	9045.5	9110.3	9118.9	9175.1	9196.7	9274.5	9395.5	9494.9	9609.5	9713.2
5°	8256.7	8233.0	8323.7	8388.6	8511.7	8563.6	8747.3	9004.4	9233.5	9492.8	9728.3
7.5°	7474.5	7461.5	7563.1	7710.0	7852.7	7924.0	8241.6	8615.5	8997.9	9417.1	9778.0
10°	6815.4	6811.1	6908.4	7053.1	7262.7	7342.7	7753.3	8245.9	8781.8	9358.8	9862.3
12.5°	6445.9	6461.0	6506.4	6627.4	6821.9	6901.9	7357.8	7936.9	8600.3	9339.3	9985.5
15°	6536.7	6560.5	6482.7	6478.3	6616.6	6679.3	7107.2	7716.5	8470.7	9371.8	10164.8
17.5°	6923.5	6927.8	6722.5	6592.9	6677.1	6709.6	7029.4	7591.2	8395.0	9445.2	10389.5
20°	7468.0	7457.2	7094.2	6878.1	6923.5	6932.1	7139.6	7593.4	8388.6	9572.7	10681.3
22.5°	8189.8	8109.8	7621.4	7327.6	7316.8	7303.8	7422.6	7753.3	8483.6	9780.2	11029.2
25°	9131.9	9056.3	8384.2	7982.3	7895.9	7863.5	7880.8	8094.7	8671.6	10002.7	11418.1
27.5°	10179.9	10048.1	9399.9	8831.5	8652.2	8606.8	8503.1	8576.6	8876.9	10216.7	11880.6
30°	11057.3	10985.9	10419.8	9745.6	9533.8	9469.0	9196.7	9116.8	9173.0	10508.4	12464.0
32.5°	11547.8	11500.2	11156.7	10612.1	10415.5	10324.7	9940.1	9780.2	9648.4	10968.7	13254.9
35°	12142.0	12111.8	11904.3	11508.9	11217.2	11122.1	10823.9	10657.5	10318.2	11601.8	14277.0
37.5°	12898.3	12865.9	12870.2	12550.4	12202.5	12113.9	11917.3	11742.3	11186.9	12433.7	15387.7
40°	13754.0	13691.4	13667.6	13652.5	13432.1	13382.4	13278.6	13040.9	12276.0	13427.7	16483.2
42.5°	15041.9	14819.4	14344.0	14523.3	14741.6	14715.6	14799.9	14458.5	13486.1	14603.3	17552.9
45°	16284.4	15919.2	15098.1	15137.0	15614.6	15759.3	16390.3	16148.3	14797.7	15891.2	18659.3
47.5°	16850.6	16574.0	15876.0	15878.2	16351.4	16651.8	18034.8	17861.9	16176.4	17354.1	20009.8
50°	17483.7	17207.1	16580.5	16816.0	17228.7	17548.6	19623.0	19534.4	17488.1	18955.3	21628.3
52.5°	18175.2	17706.3	17308.7	17730.1	18309.2	18680.9	21213.4	20971.4	18691.7	20567.3	23488.8
55°	18183.9	18056.4	18358.9	18667.9	19534.4	19990.4	22879.5	22239.8	19672.7	22151.2	25003.6
57.5°	19218.9	19011.5	19653.3	19795.9	20928.2	21442.5	24536.9	23344.1	20671.0	23365.7	25820.4
60°	20588.9	20411.7	20936.8	21312.8	22652.6	23339.7	26306.6	24478.5	21455.4	24281.9	25781.5
62.5°	22955.1	22754.1	22747.6	23274.9	25079.2	25878.8	28292.5	25591.4	21766.6	24463.4	24681.6
65°	26419.0	26099.2	25496.3	25747.0	28430.8	29228.1	30511.7	26397.4	21356.0	23491.0	21848.7
67.5°	29790.0	29779.2	29038.0	29552.3	32856.3	33495.9	33039.9	26477.3	20074.6	20104.9	16822.5
70°	33150.2	33193.4	33068.0	34857.3	38835.4	39501.0	35732.4	25403.4	17194.2	14519.0	10078.4
72.5°	35812.4	35801.6	36432.5	41046.0	46595.2	46446.1	38001.3	22149.1	12345.1	7837.5	4816.6
75°	34088.0	33712.0	35592.0	44110.2	51117.9	50389.7	36071.7	15450.3	6407.0	3567.6	2593.1
77.5°	22233.4	22589.9	25349.4	36439.0	44713.1	43827.1	26464.4	7208.7	3018.8	2340.2	1880.0
80°	8051.5	8427.5	11869.7	20640.8	30805.6	30660.8	13032.3	2962.6	2042.0	1767.6	1370.0
82.5°	2770.3	2908.6	4682.6	9166.5	17393.0	18041.2	4903.1	1683.3	1484.5	1253.3	937.8
85°	1086.9	1244.7	2141.4	4410.4	8773.2	8838.0	1985.9	1007.0	1032.9	821.1	514.3
87.5°	412.7	501.3	1024.3	2048.5	4006.3	3680.0	710.9	479.7	587.8	488.4	244.2
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°	9778.0	9778.0	9778.0	9778.0	9778.0	9778.0	9778.0	9778.0	9778.0	9778.0	9778.0
2.5°	9793.1	9838.5	9933.6	9998.4	10067.6	10087.0	10095.7	10112.9	10130.2	10123.8	10125.9
5°	9853.6	9942.2	10095.7	10160.5	10190.7	10156.2	10089.2	10035.2	9996.3	9974.7	9968.2
7.5°	9953.0	10078.4	10242.6	10231.8	10162.6	10009.2	9836.4	9706.7	9598.7	9559.8	9538.2
10°	10084.9	10231.8	10346.3	10223.2	10022.2	9756.4	9497.1	9296.1	9134.1	9071.4	9060.6
12.5°	10253.4	10402.5	10424.1	10162.6	9829.9	9466.8	9114.6	8848.8	8606.8	8529.0	8511.7
15°	10471.7	10612.1	10478.1	10056.8	9592.2	9103.8	8647.9	8287.0	8032.0	7936.9	7902.4
17.5°	10700.7	10834.7	10488.9	9881.7	9281.0	8673.8	8101.2	7731.7	7439.9	7329.7	7316.8
20°	10975.1	11035.6	10443.6	9631.1	8853.2	8116.3	7513.4	7165.5	7009.9	6932.1	6923.5
22.5°	11314.4	11249.6	10339.8	9291.8	8310.8	7472.3	6981.8	6819.8	6780.9	6763.6	6770.1
25°	11673.1	11474.3	10186.4	8848.8	7625.8	6828.4	6592.9	6638.2	6690.1	6683.6	6683.6
27.5°	12068.5	11703.4	9950.9	8261.1	6867.3	6301.1	6329.2	6495.6	6573.4	6571.3	6569.1
30°	12576.4	11962.7	9650.5	7554.5	6158.5	5929.5	6100.2	6303.3	6409.2	6404.9	6407.0
32.5°	13200.9	12247.9	9242.1	6765.7	5646.4	5655.0	5851.7	6052.6	6175.8	6165.0	6167.2
35°	13931.2	12567.7	8688.9	5987.8	5307.1	5436.8	5592.4	5732.8	5849.5	5834.4	5819.3
37.5°	14726.4	12881.0	7954.2	5292.0	5030.5	5233.7	5363.3	5387.1	5441.1	5402.2	5374.1
40°	15482.7	13120.9	7007.8	4721.5	4751.8	5060.8	5145.1	5050.0	4952.8	4939.8	4900.9
42.5°	16141.8	13200.9	6050.5	4265.6	4457.9	4879.3	4931.1	4732.3	4557.3	4475.2	4440.6
45°	16837.6	13228.9	5158.0	3883.1	4174.8	4717.2	4773.4	4507.6	4261.3	4084.1	4025.7
47.5°	17747.4	13432.1	4464.4	3600.0	3958.7	4609.2	4689.1	4328.3	4008.4	3755.6	3701.6
50°	18938.0	13834.0	3900.4	3383.9	3818.3	4537.9	4628.6	4153.2	3801.0	3496.3	3442.3
52.5°	20260.5	14203.5	3444.5	3208.9	3682.1	4412.5	4550.8	4027.9	3606.5	3256.5	3198.1
55°	21185.3	13920.4	3077.1	3027.4	3505.0	4233.2	4442.8	3922.0	3327.8	3023.1	2971.2
57.5°	21362.5	12952.4	2798.3	2839.4	3291.0	4008.4	4276.4	3686.5	3176.5	2921.5	2867.5
60°	20878.5	11604.0	2590.9	2666.5	3062.0	3725.4	3965.2	3520.1	3031.7	2813.5	2768.1
62.5°	19661.9	10223.2	2437.5	2510.9	2848.0	3438.0	3770.7	3345.1	2884.8	2690.3	2644.9
65°	17205.0	8583.0	2290.5	2372.7	2649.2	3189.5	3595.7	3183.0	2740.0	2590.9	2547.7
67.5°	12986.9	6428.6	2152.2	2225.7	2472.1	2973.4	3405.6	3023.1	2599.5	2504.5	2452.6
70°	7647.4	4025.7	1994.5	2072.3	2286.2	2748.6	3202.4	2848.0	2424.5	2381.3	2314.3
72.5°	3559.0	2422.4	1815.1	1890.8	2052.8	2448.3	2941.0	2619.0	2217.1	2122.0	2031.2
75°	2124.2	1771.9	1603.4	1670.4	1784.9	2128.5	2612.5	2385.6	2020.4	1895.1	1800.0
77.5°	1588.3	1354.9	1370.0	1441.3	1534.2	1862.7	2314.3	2201.9	1869.2	1771.9	1707.1
80°	1143.1	1028.6	1117.2	1195.0	1292.2	1694.1	2217.1	2035.6	1689.8	1560.2	1499.7
82.5°	762.8	739.0	840.6	920.5	1015.6	1482.4	2083.1	1782.7	1443.5	1279.2	1145.3
85°	421.4	445.1	566.2	600.7	682.8	1043.7	1707.1	1432.7	1086.9	875.2	836.3
87.5°	175.0	205.3	304.7	293.9	363.0	622.3	1123.7	864.4	691.5	516.5	401.9
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)