

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: P318632

Luminaire Tested: **GAN-SA8A-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318632
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-SA8A-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA 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: 31422 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

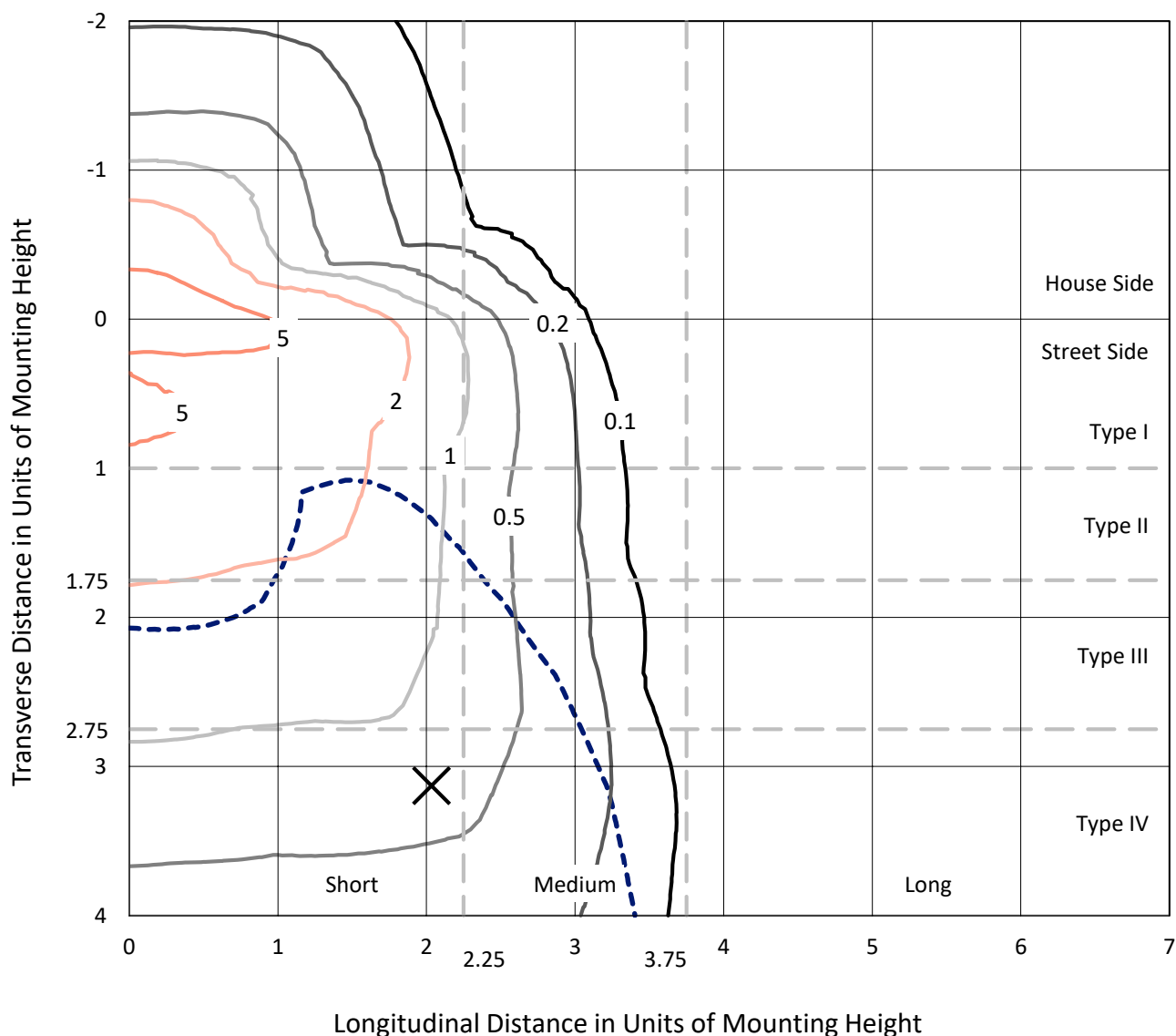
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

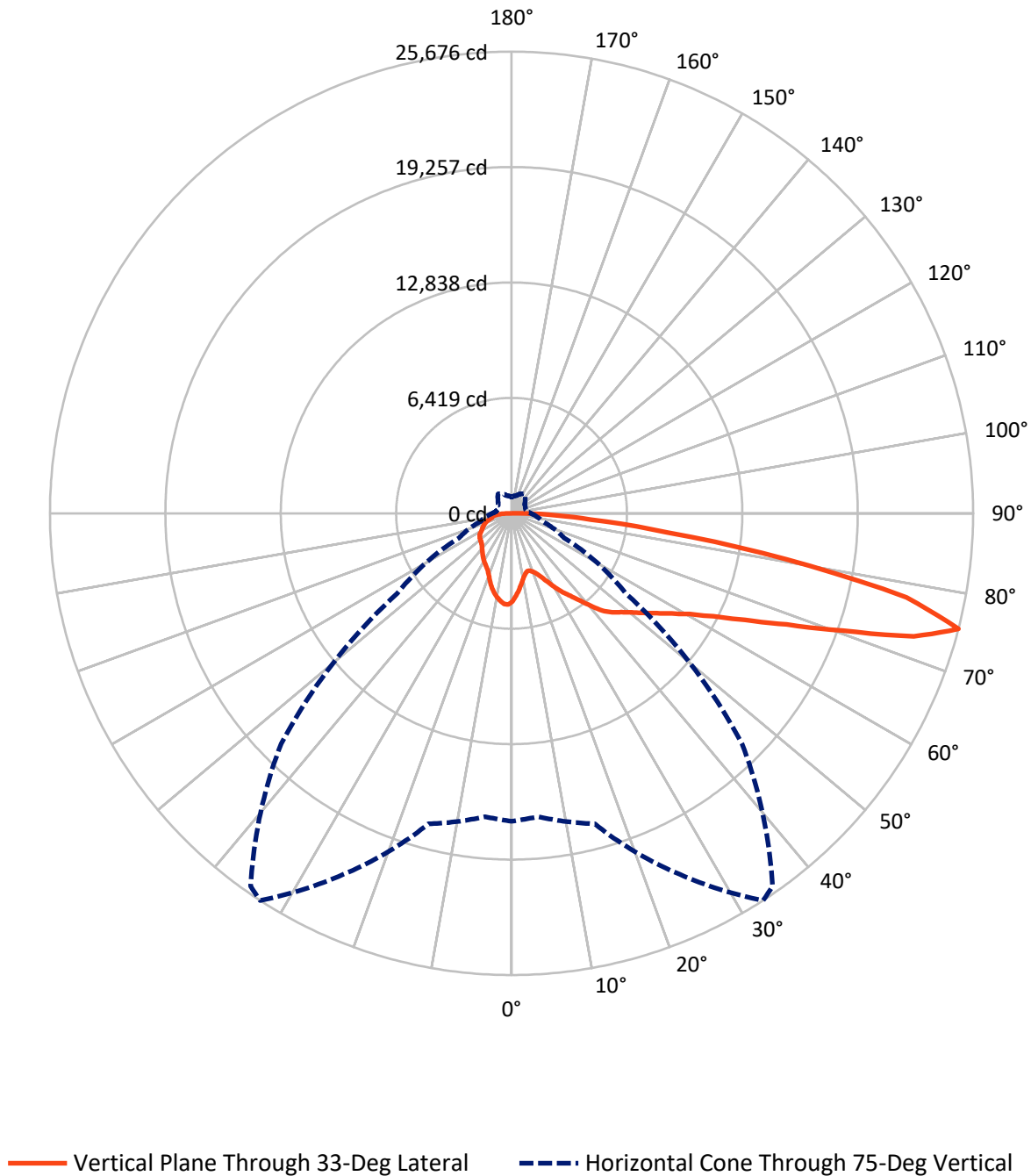
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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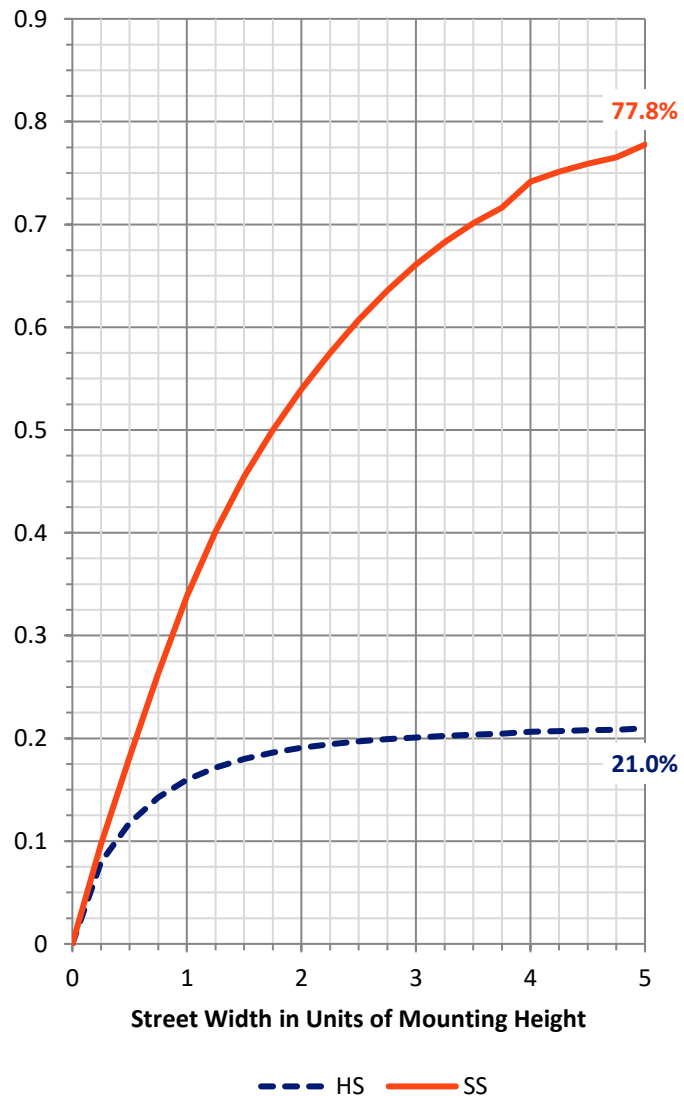
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6747.1	0.0	6747.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	24674.9	0.0	24674.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	31422.0	0.0	31422.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.2	1.4
10°-20°	1203.0	3.8
20°-30°	1964.7	6.3
30°-40°	2925.9	9.3
40°-50°	4196.5	13.4
50°-60°	5761.2	18.3
60°-70°	7212.8	23.0
70°-80°	6525.1	20.8
80°-90°	1188.6	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°	31422.0	100.0
0°-180°	31422.0	100.0

Coefficient of Utilization



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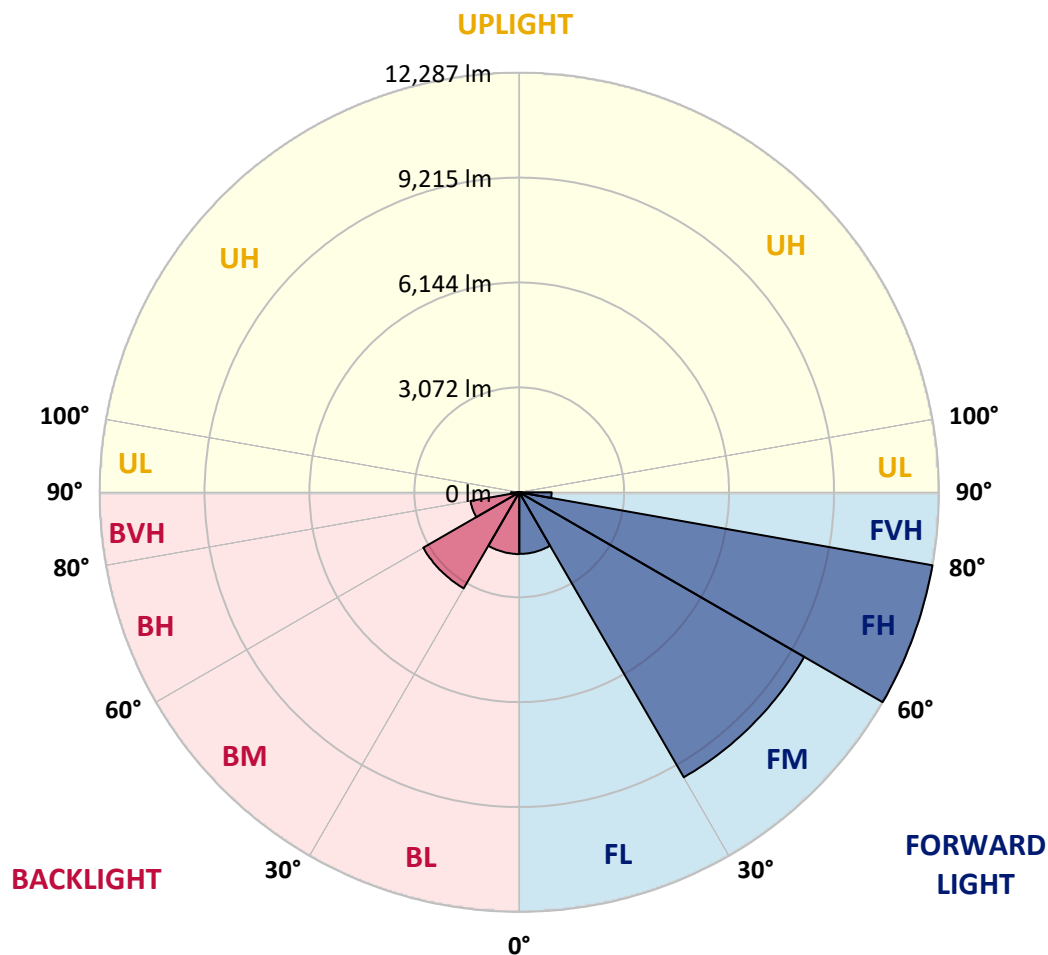
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1804.7	5.7			
FM	(30°-60°)	9636.5	30.7			
FH	(60°-80°)	12287.1	39.1			G5
FVH	(80°-90°)	946.6	3.0			G5
BL	(0°-30°)	1807.2	5.8	B3/2500		
BM	(30°-60°)	3247.2	10.3	B3/5000		
BH	(60°-80°)	1450.8	4.6	B3/2500		G3/2500
BVH	(80°-90°)	242.0	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	4911.4	4911.4	4911.4	4911.4	4911.4	4911.4	4911.4	4911.4	4911.4	4911.4	4911.4
2.5°	4560.9	4543.5	4576.0	4580.4	4608.6	4619.5	4658.5	4719.3	4769.2	4826.8	4878.9
5°	4147.3	4135.4	4181.0	4213.5	4275.4	4301.4	4393.7	4522.9	4637.9	4768.2	4886.5
7.5°	3754.4	3747.9	3798.9	3872.7	3944.3	3980.2	4139.7	4327.5	4519.6	4730.2	4911.4
10°	3423.4	3421.2	3470.0	3542.7	3648.0	3688.2	3894.4	4141.9	4411.1	4700.9	4953.8
12.5°	3237.7	3245.3	3268.1	3328.9	3426.6	3466.8	3695.8	3986.7	4319.9	4691.1	5015.6
15°	3283.3	3295.3	3256.2	3254.0	3323.5	3355.0	3569.9	3876.0	4254.8	4707.4	5105.7
17.5°	3477.6	3479.8	3376.7	3311.6	3353.9	3370.2	3530.8	3813.0	4216.8	4744.3	5218.6
20°	3751.1	3745.7	3563.4	3454.8	3477.6	3482.0	3586.2	3814.1	4213.5	4808.3	5365.1
22.5°	4113.7	4073.5	3828.2	3680.6	3675.2	3668.7	3728.3	3894.4	4261.3	4912.5	5539.9
25°	4586.9	4548.9	4211.4	4009.5	3966.1	3949.8	3958.5	4065.9	4355.7	5024.3	5735.3
27.5°	5113.3	5047.1	4721.5	4436.0	4345.9	4323.1	4271.0	4308.0	4458.8	5131.8	5967.5
30°	5554.0	5518.2	5233.8	4895.2	4788.8	4756.2	4619.5	4579.3	4607.5	5278.3	6260.6
32.5°	5800.4	5776.5	5603.9	5330.4	5231.6	5186.0	4992.8	4912.5	4846.3	5509.5	6657.8
35°	6098.9	6083.7	5979.5	5780.8	5634.3	5586.6	5436.8	5353.2	5182.8	5827.5	7171.2
37.5°	6478.8	6462.5	6464.6	6304.0	6129.3	6084.8	5986.0	5898.1	5619.1	6245.4	7729.1
40°	6908.6	6877.1	6865.2	6857.6	6746.8	6721.9	6669.8	6550.4	6166.2	6744.7	8279.4
42.5°	7555.5	7443.7	7204.9	7295.0	7404.6	7391.6	7433.9	7262.4	6774.0	7335.1	8816.7
45°	8179.6	7996.1	7583.7	7603.2	7843.1	7915.8	8232.8	8111.2	7432.8	7982.0	9372.4
47.5°	8463.9	8325.0	7974.4	7975.5	8213.2	8364.1	9058.7	8971.9	8125.3	8716.8	10050.8
50°	8782.0	8643.0	8328.3	8446.6	8653.9	8814.5	9856.5	9812.0	8784.1	9521.1	10863.8
52.5°	9129.3	8893.8	8694.1	8905.7	9196.6	9383.3	10655.4	10533.8	9388.7	10330.8	11798.3
55°	9133.6	9069.6	9221.6	9376.8	9812.0	10041.0	11492.2	11170.9	9881.5	11126.4	12559.2
57.5°	9653.5	9549.3	9871.7	9943.3	10512.1	10770.4	12324.7	11725.6	10382.9	11736.4	12969.4
60°	10341.7	10252.7	10516.4	10705.3	11378.2	11723.4	13213.7	12295.4	10776.9	12196.6	12949.9
62.5°	11530.2	11429.3	11426.0	11690.8	12597.2	12998.7	14211.1	12854.4	10933.2	12287.8	12397.4
65°	13270.1	13109.5	12806.6	12932.5	14280.6	14681.1	15325.8	13259.2	10727.0	11799.4	10974.5
67.5°	14963.3	14957.9	14585.6	14843.9	16503.5	16824.8	16595.8	13299.4	10083.4	10098.6	8449.8
70°	16651.1	16672.8	16609.9	17508.6	19506.8	19841.1	17948.2	12760.0	8636.5	7292.8	5062.3
72.5°	17988.3	17982.9	18299.8	20617.2	23404.5	23329.6	19087.8	11125.3	6200.9	3936.7	2419.4
75°	17122.2	16933.3	17877.6	22156.3	25676.2	25310.4	18118.6	7760.6	3218.2	1792.0	1302.5
77.5°	11167.7	11346.8	12732.8	18303.1	22459.1	22014.1	13292.9	3620.9	1516.3	1175.5	944.3
80°	4044.2	4233.1	5962.1	10367.7	15473.5	15400.7	6546.0	1488.1	1025.7	887.9	688.1
82.5°	1391.5	1460.9	2352.1	4604.3	8736.4	9062.0	2462.8	845.5	745.7	629.5	471.1
85°	546.0	625.2	1075.6	2215.3	4406.7	4439.3	997.5	505.8	518.8	412.5	258.3
87.5°	207.3	251.8	514.5	1029.0	2012.3	1848.4	357.1	241.0	295.2	245.3	122.7
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°	4911.4	4911.4	4911.4	4911.4	4911.4	4911.4	4911.4	4911.4	4911.4	4911.4	4911.4
2.5°	4919.0	4941.8	4989.6	5022.1	5056.9	5066.6	5071.0	5079.7	5088.4	5085.1	5086.2
5°	4949.4	4993.9	5071.0	5103.6	5118.7	5101.4	5067.7	5040.6	5021.1	5010.2	5006.9
7.5°	4999.4	5062.3	5144.8	5139.4	5104.6	5027.6	4940.7	4875.6	4821.3	4801.8	4791.0
10°	5065.6	5139.4	5196.9	5135.0	5034.1	4900.6	4770.3	4669.4	4588.0	4556.5	4551.1
12.5°	5150.2	5225.1	5236.0	5104.6	4937.5	4755.1	4578.2	4444.7	4323.1	4284.1	4275.4
15°	5259.8	5330.4	5263.1	5051.5	4818.1	4572.8	4343.8	4162.5	4034.4	3986.7	3969.3
17.5°	5374.9	5442.2	5268.5	4963.5	4661.8	4356.8	4069.2	3883.6	3737.0	3681.7	3675.2
20°	5512.7	5543.1	5245.7	4837.6	4446.9	4076.8	3773.9	3599.2	3521.0	3482.0	3477.6
22.5°	5683.2	5650.6	5193.6	4667.2	4174.4	3753.3	3506.9	3425.5	3406.0	3397.3	3400.6
25°	5863.3	5763.5	5116.6	4444.7	3830.4	3429.9	3311.6	3334.3	3360.4	3357.1	3357.1
27.5°	6062.0	5878.5	4998.3	4149.5	3449.4	3165.0	3179.1	3262.7	3301.8	3300.7	3299.6
30°	6317.0	6008.8	4847.4	3794.6	3093.4	2978.3	3064.1	3166.1	3219.3	3217.1	3218.2
32.5°	6630.7	6152.0	4642.3	3398.4	2836.2	2840.5	2939.3	3040.2	3102.1	3096.6	3097.7
35°	6997.6	6312.7	4364.4	3007.6	2665.7	2730.9	2809.0	2879.6	2938.2	2930.6	2923.0
37.5°	7397.0	6470.1	3995.4	2658.1	2526.8	2628.8	2694.0	2705.9	2733.0	2713.5	2699.4
40°	7776.9	6590.5	3520.0	2371.6	2386.8	2542.0	2584.3	2536.6	2487.7	2481.2	2461.7
42.5°	8107.9	6630.7	3039.1	2142.6	2239.2	2450.8	2476.9	2377.0	2289.1	2247.9	2230.5
45°	8457.4	6644.8	2590.8	1950.5	2097.0	2369.4	2397.6	2264.1	2140.4	2051.4	2022.1
47.5°	8914.4	6746.8	2242.4	1808.3	1988.5	2315.2	2355.3	2174.1	2013.4	1886.4	1859.3
50°	9512.4	6948.7	1959.1	1699.7	1917.9	2279.3	2324.9	2086.1	1909.2	1756.2	1729.0
52.5°	10176.7	7134.3	1730.1	1611.8	1849.5	2216.4	2285.9	2023.2	1811.5	1635.7	1606.4
55°	10641.3	6992.1	1545.6	1520.6	1760.5	2126.3	2231.6	1970.0	1671.5	1518.5	1492.4
57.5°	10730.3	6505.9	1405.6	1426.2	1653.1	2013.4	2148.0	1851.7	1595.5	1467.5	1440.3
60°	10487.1	5828.6	1301.4	1339.4	1538.0	1871.2	1991.7	1768.1	1522.8	1413.2	1390.4
62.5°	9876.1	5135.0	1224.3	1261.2	1430.6	1726.9	1894.0	1680.2	1449.0	1351.3	1328.5
65°	8642.0	4311.2	1150.5	1191.8	1330.7	1602.1	1806.1	1598.8	1376.3	1301.4	1279.7
67.5°	6523.3	3229.1	1081.1	1118.0	1241.7	1493.5	1710.6	1518.5	1305.7	1258.0	1231.9
70°	3841.2	2022.1	1001.8	1040.9	1148.4	1380.6	1608.6	1430.6	1217.8	1196.1	1162.5
72.5°	1787.7	1216.7	911.7	949.7	1031.1	1229.8	1477.2	1315.5	1113.6	1065.9	1020.3
75°	1066.9	890.0	805.4	839.0	896.5	1069.1	1312.2	1198.3	1014.8	951.9	904.1
77.5°	797.8	680.5	688.1	724.0	770.6	935.6	1162.5	1106.0	938.9	890.0	857.5
80°	574.2	516.7	561.2	600.2	649.1	851.0	1113.6	1022.4	848.8	783.7	753.3
82.5°	383.1	371.2	422.2	462.4	510.1	744.6	1046.3	895.5	725.0	642.6	575.3
85°	211.7	223.6	284.4	301.7	343.0	524.2	857.5	719.6	546.0	439.6	420.0
87.5°	87.9	103.1	153.0	147.6	182.3	312.6	564.4	434.2	347.3	259.4	201.9
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)