

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: P318808

Luminaire Tested: **GAN-SA4C-760-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318808
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-SA4C-760-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1050mA 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: 28703 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

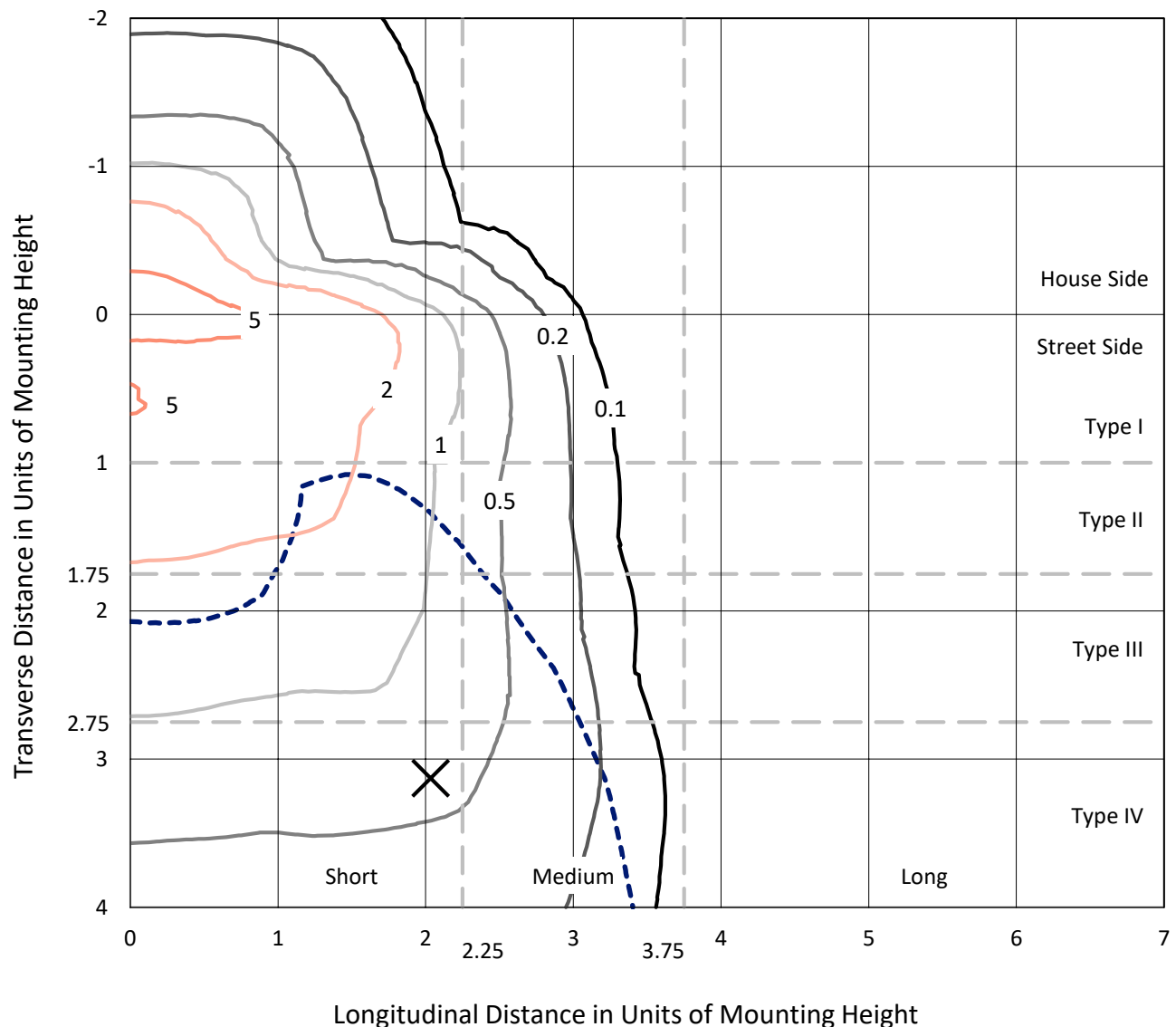
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

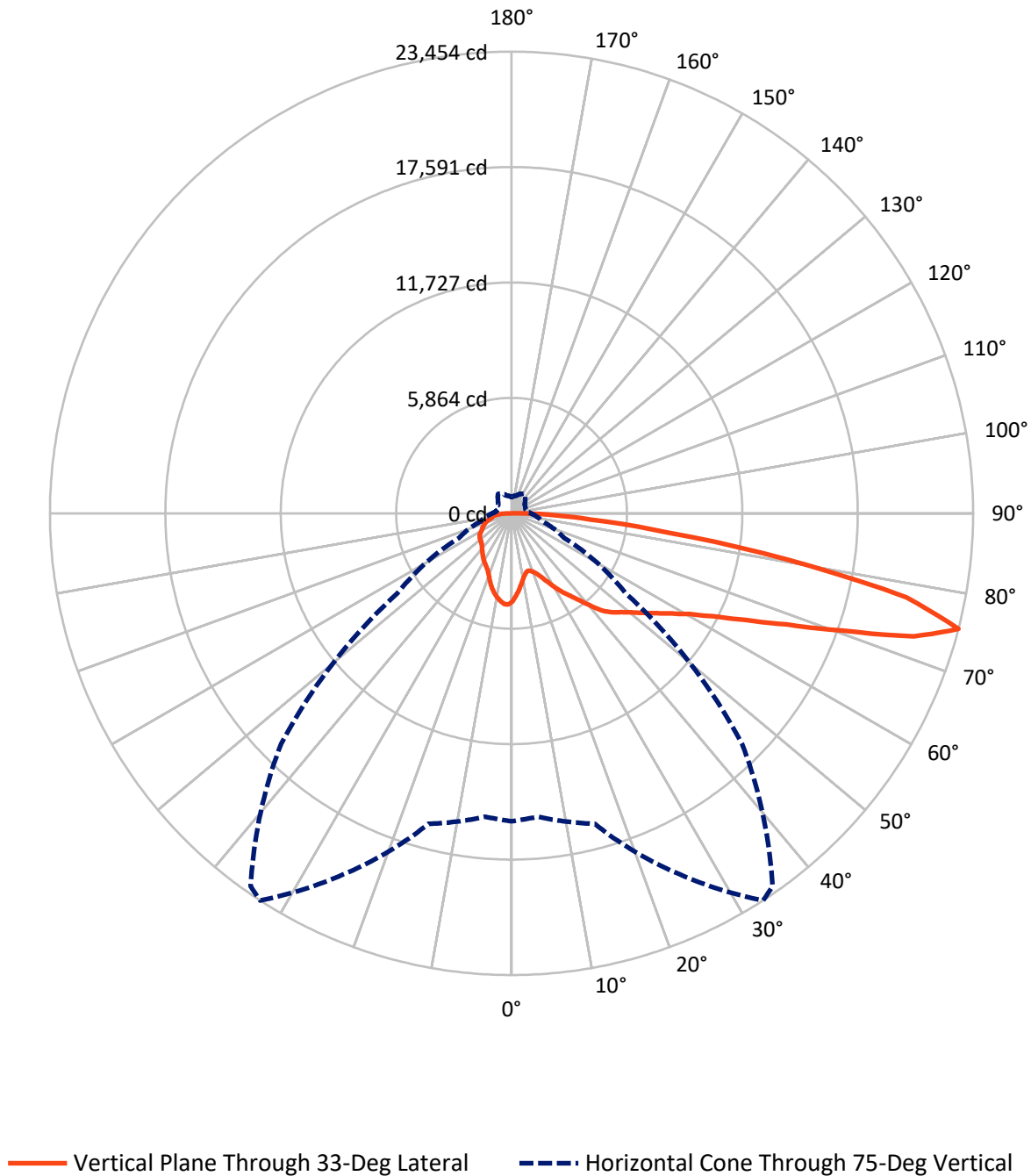
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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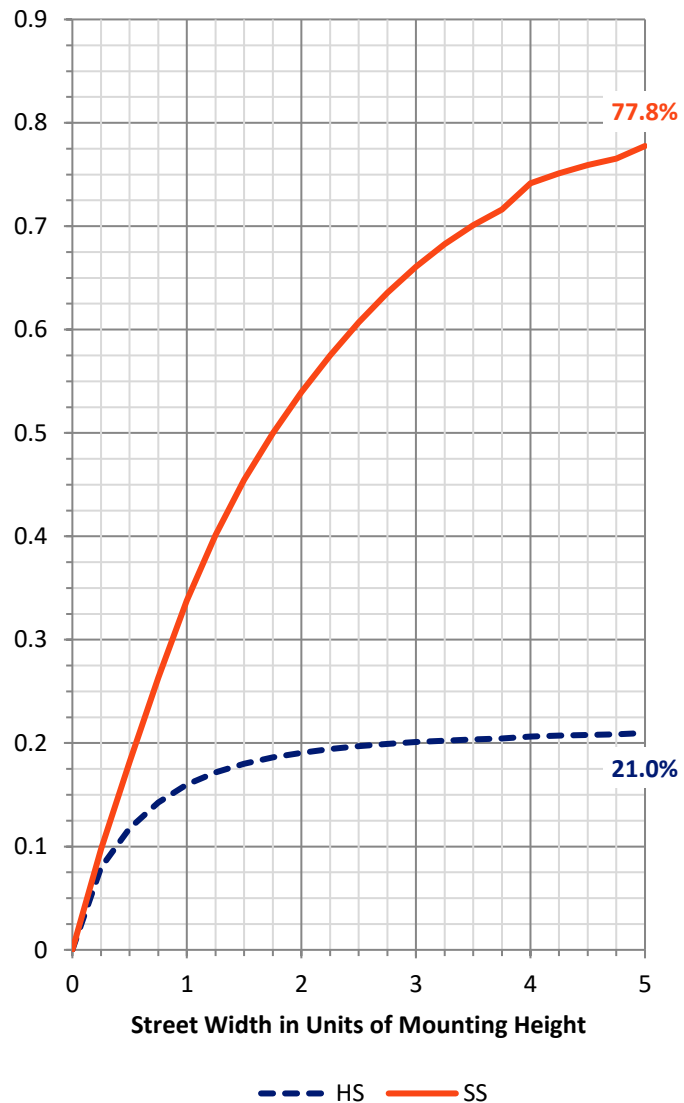
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6163.3	0.0	6163.3
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	22539.7	0.0	22539.7
	% Fixture	78.5	0.0	78.5
Total	Lumens	28703.0	0.0	28703.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.7	1.4
10°-20°	1098.9	3.8
20°-30°	1794.7	6.3
30°-40°	2672.7	9.3
40°-50°	3833.4	13.4
50°-60°	5262.7	18.3
60°-70°	6588.7	23.0
70°-80°	5960.4	20.8
80°-90°	1085.7	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°	28703.0	100.0
0°-180°	28703.0	100.0

Coefficient of Utilization



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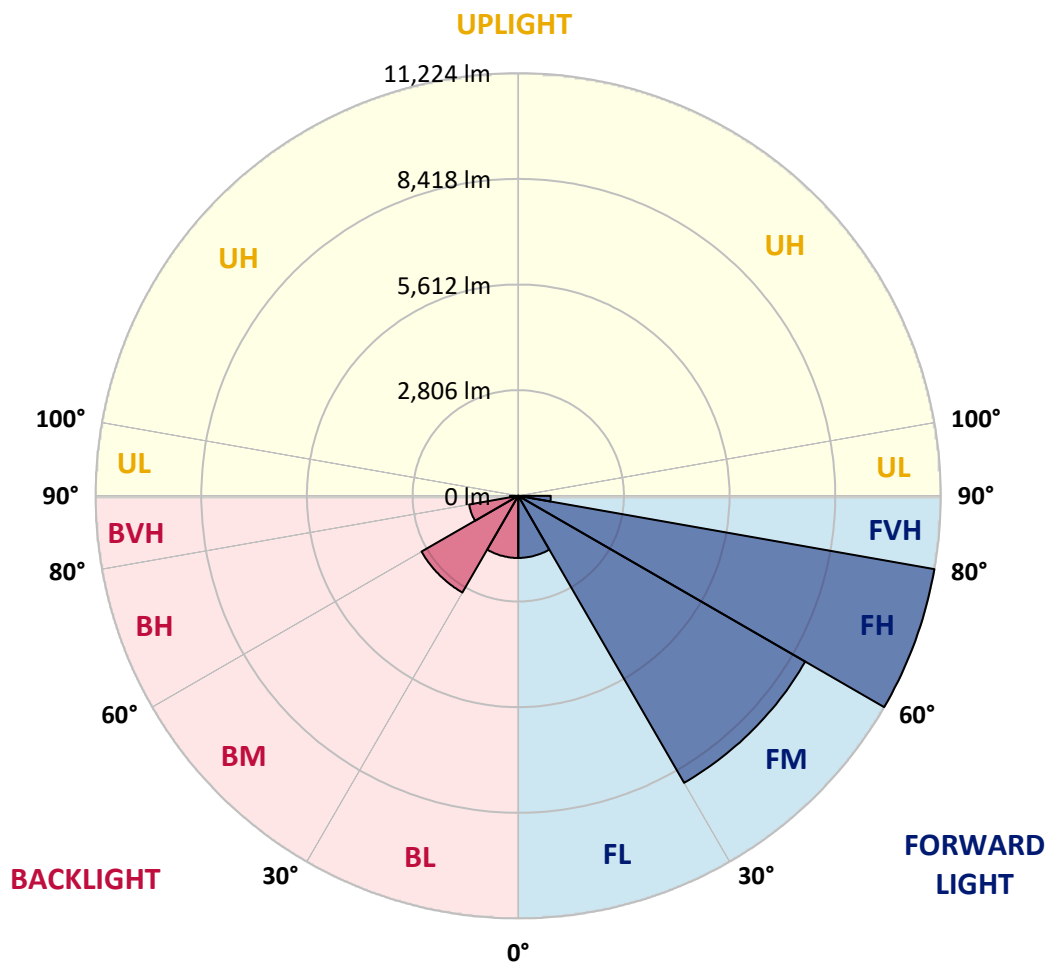
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1648.5	5.7			
FM	(30°-60°)	8802.6	30.7			
FH	(60°-80°)	11223.9	39.1			G4/12000
FVH	(80°-90°)	864.7	3.0			G5
BL	(0°-30°)	1650.8	5.8	B3/2500		
BM	(30°-60°)	2966.2	10.3	B3/5000		
BH	(60°-80°)	1325.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	221.0	0.8			G2/225
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°	4486.4	4486.4	4486.4	4486.4	4486.4	4486.4	4486.4	4486.4	4486.4	4486.4	4486.4
2.5°	4166.2	4150.3	4180.1	4184.0	4209.8	4219.7	4255.4	4310.9	4356.6	4409.1	4456.7
5°	3788.4	3777.5	3819.2	3848.9	3905.4	3929.2	4013.5	4131.5	4236.6	4355.6	4463.6
7.5°	3429.5	3423.6	3470.2	3537.6	3603.0	3635.8	3781.5	3953.0	4128.5	4320.9	4486.4
10°	3127.1	3125.1	3169.8	3236.2	3332.4	3369.0	3557.4	3783.5	4029.4	4294.1	4525.1
12.5°	2957.6	2964.5	2985.3	3040.9	3130.1	3166.8	3376.0	3641.7	3946.1	4285.2	4581.6
15°	2999.2	3010.1	2974.4	2972.5	3035.9	3064.7	3261.0	3540.6	3886.6	4300.0	4663.9
17.5°	3176.7	3178.7	3084.5	3025.0	3063.7	3078.5	3225.3	3483.1	3851.9	4333.8	4767.0
20°	3426.5	3421.6	3255.0	3155.9	3176.7	3180.7	3275.8	3484.1	3848.9	4392.2	4900.9
22.5°	3757.7	3721.0	3496.9	3362.1	3357.1	3351.2	3405.7	3557.4	3892.5	4487.4	5060.5
25°	4190.0	4155.3	3846.9	3662.5	3622.9	3608.0	3615.9	3714.1	3978.8	4589.6	5239.0
27.5°	4670.9	4610.4	4312.9	4052.2	3969.9	3949.1	3901.5	3935.2	4073.0	4687.7	5451.1
30°	5073.4	5040.7	4780.9	4471.6	4374.4	4344.7	4219.7	4183.0	4208.8	4821.6	5718.8
32.5°	5298.5	5276.6	5119.0	4869.2	4778.9	4737.3	4560.8	4487.4	4427.0	5032.7	6081.7
35°	5571.1	5557.2	5462.1	5280.6	5146.8	5103.1	4966.3	4890.0	4734.3	5323.2	6550.7
37.5°	5918.1	5903.3	5905.2	5758.5	5598.9	5558.2	5468.0	5387.7	5132.9	5705.0	7060.3
40°	6310.8	6282.0	6271.1	6264.2	6163.0	6140.2	6092.6	5983.6	5632.6	6161.0	7563.0
42.5°	6901.7	6799.6	6581.4	6663.7	6763.9	6752.0	6790.6	6634.0	6187.8	6700.4	8053.8
45°	7471.8	7304.2	6927.5	6945.3	7164.4	7230.9	7520.4	7409.3	6789.6	7291.3	8561.4
47.5°	7731.5	7604.6	7284.4	7285.4	7502.5	7640.3	8274.9	8195.6	7422.2	7962.6	9181.1
50°	8022.1	7895.1	7607.6	7715.7	7905.1	8051.8	9003.6	8963.0	8024.0	8697.2	9923.7
52.5°	8339.3	8124.2	7941.7	8135.1	8400.8	8571.3	9733.3	9622.3	8576.3	9436.9	10777.4
55°	8343.3	8284.8	8423.6	8565.4	8963.0	9172.2	10497.8	10204.3	9026.4	10163.6	11472.4
57.5°	8818.2	8723.0	9017.5	9082.9	9602.5	9838.4	11258.2	10710.9	9484.5	10720.9	11847.2
60°	9446.8	9365.5	9606.4	9779.0	10393.7	10709.0	12070.3	11231.5	9844.4	11141.2	11829.3
62.5°	10532.5	10440.3	10437.3	10679.2	11507.1	11873.9	12981.4	11742.1	9987.2	11224.5	11324.7
65°	12121.8	11975.1	11698.5	11813.5	13044.9	13410.7	13999.7	12111.9	9798.8	10778.4	10024.8
67.5°	13668.5	13663.6	13323.5	13559.5	15075.4	15368.9	15159.7	12148.6	9210.8	9224.7	7718.7
70°	15210.3	15230.1	15172.6	15993.5	17818.9	18124.2	16395.1	11655.8	7889.2	6661.7	4624.3
72.5°	16431.8	16426.8	16716.3	18833.1	21379.2	21310.8	17436.1	10162.7	5664.3	3596.1	2210.0
75°	15640.6	15468.1	16330.6	20239.0	23454.4	23120.3	16550.7	7089.1	2939.7	1636.9	1189.8
77.5°	10201.3	10364.9	11631.0	16719.3	20515.7	20109.2	12142.6	3307.6	1385.1	1073.8	862.6
80°	3694.2	3866.8	5446.2	9470.6	14134.5	14068.1	5979.6	1359.3	936.9	811.0	628.6
82.5°	1271.1	1334.5	2148.5	4205.9	7980.4	8277.9	2249.7	772.4	681.1	575.1	430.3
85°	498.7	571.1	982.6	2023.6	4025.4	4055.1	911.2	462.0	473.9	376.8	236.0
87.5°	189.4	230.0	470.0	939.9	1838.2	1688.5	326.2	220.1	269.7	224.1	112.0
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°	4486.4	4486.4	4486.4	4486.4	4486.4	4486.4	4486.4	4486.4	4486.4	4486.4	4486.4
2.5°	4493.4	4514.2	4557.8	4587.6	4619.3	4628.2	4632.2	4640.1	4648.1	4645.1	4646.1
5°	4521.1	4561.8	4632.2	4661.9	4675.8	4659.9	4629.2	4604.4	4586.6	4576.7	4573.7
7.5°	4566.7	4624.3	4699.6	4694.7	4662.9	4592.5	4513.2	4453.7	4404.1	4386.3	4376.4
10°	4627.2	4694.7	4747.2	4690.7	4598.5	4476.5	4357.5	4265.3	4191.0	4162.2	4157.3
12.5°	4704.6	4773.0	4782.9	4662.9	4510.2	4343.7	4182.1	4060.1	3949.1	3913.4	3905.4
15°	4804.7	4869.2	4807.7	4614.3	4401.2	4177.1	3967.9	3802.3	3685.3	3641.7	3625.8
17.5°	4909.8	4971.3	4812.6	4534.0	4258.4	3979.8	3717.1	3547.5	3413.7	3363.1	3357.1
20°	5035.7	5063.5	4791.8	4419.0	4062.1	3724.0	3447.4	3287.7	3216.4	3180.7	3176.7
22.5°	5191.4	5161.6	4744.2	4263.4	3813.2	3428.5	3203.5	3129.1	3111.3	3103.3	3106.3
25°	5356.0	5264.8	4673.8	4060.1	3498.9	3133.1	3025.0	3045.8	3069.6	3066.6	3066.6
27.5°	5537.4	5369.8	4565.8	3790.4	3150.9	2891.2	2904.0	2980.4	3016.1	3015.1	3014.1
30°	5770.4	5488.8	4427.9	3466.2	2825.7	2720.6	2798.9	2892.1	2940.7	2938.7	2939.7
32.5°	6056.9	5619.7	4240.6	3104.3	2590.7	2594.7	2684.9	2777.1	2833.6	2828.7	2829.7
35°	6392.1	5766.4	3986.7	2747.4	2435.1	2494.6	2565.9	2630.4	2683.9	2677.0	2670.1
37.5°	6756.9	5910.2	3649.6	2428.1	2308.2	2401.4	2460.8	2471.8	2496.5	2478.7	2465.8
40°	7103.9	6020.3	3215.4	2166.4	2180.3	2322.0	2360.7	2317.1	2272.5	2266.5	2248.7
42.5°	7406.3	6056.9	2776.1	1957.2	2045.4	2238.8	2262.6	2171.3	2091.0	2053.4	2037.5
45°	7725.6	6069.8	2366.7	1781.7	1915.5	2164.4	2190.2	2068.2	1955.2	1873.9	1847.1
47.5°	8143.0	6163.0	2048.4	1651.8	1816.4	2114.8	2151.5	1985.9	1839.2	1723.2	1698.4
50°	8689.3	6347.4	1789.6	1552.7	1751.9	2082.1	2123.7	1905.6	1744.0	1604.2	1579.4
52.5°	9296.1	6517.0	1580.4	1472.3	1689.5	2024.6	2088.1	1848.1	1654.8	1494.2	1467.4
55°	9720.5	6387.1	1411.9	1389.1	1608.2	1942.3	2038.5	1799.5	1526.9	1387.1	1363.3
57.5°	9801.8	5942.9	1284.0	1302.8	1510.0	1839.2	1962.1	1691.5	1457.5	1340.5	1315.7
60°	9579.7	5324.2	1188.8	1223.5	1404.9	1709.3	1819.4	1615.1	1391.0	1290.9	1270.1
62.5°	9021.5	4690.7	1118.4	1152.1	1306.8	1577.4	1730.1	1534.8	1323.6	1234.4	1213.6
65°	7894.2	3938.2	1051.0	1088.6	1215.6	1463.4	1649.8	1460.4	1257.2	1188.8	1169.0
67.5°	5958.8	2949.6	987.5	1021.2	1134.3	1364.3	1562.6	1387.1	1192.7	1149.1	1125.3
70°	3508.8	1847.1	915.1	950.8	1049.0	1261.2	1469.4	1306.8	1112.4	1092.6	1061.9
72.5°	1633.0	1111.4	832.8	867.5	941.9	1123.3	1349.4	1201.7	1017.3	973.6	932.0
75°	974.6	813.0	735.7	766.4	819.0	976.6	1198.7	1094.6	927.0	869.5	825.9
77.5°	728.7	621.7	628.6	661.3	703.9	854.7	1061.9	1010.3	857.6	813.0	783.3
80°	524.5	471.9	512.6	548.3	592.9	777.3	1017.3	934.0	775.3	715.8	688.1
82.5°	350.0	339.1	385.7	422.4	466.0	680.2	955.8	818.0	662.3	587.0	525.5
85°	193.3	204.2	259.8	275.6	313.3	478.9	783.3	657.4	498.7	401.5	383.7
87.5°	80.3	94.2	139.8	134.8	166.6	285.5	515.6	396.6	317.3	237.0	184.4
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)