

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: P318660

Luminaire Tested: **GAN-SA6D-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318660
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-SA6D-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 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: 39043 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

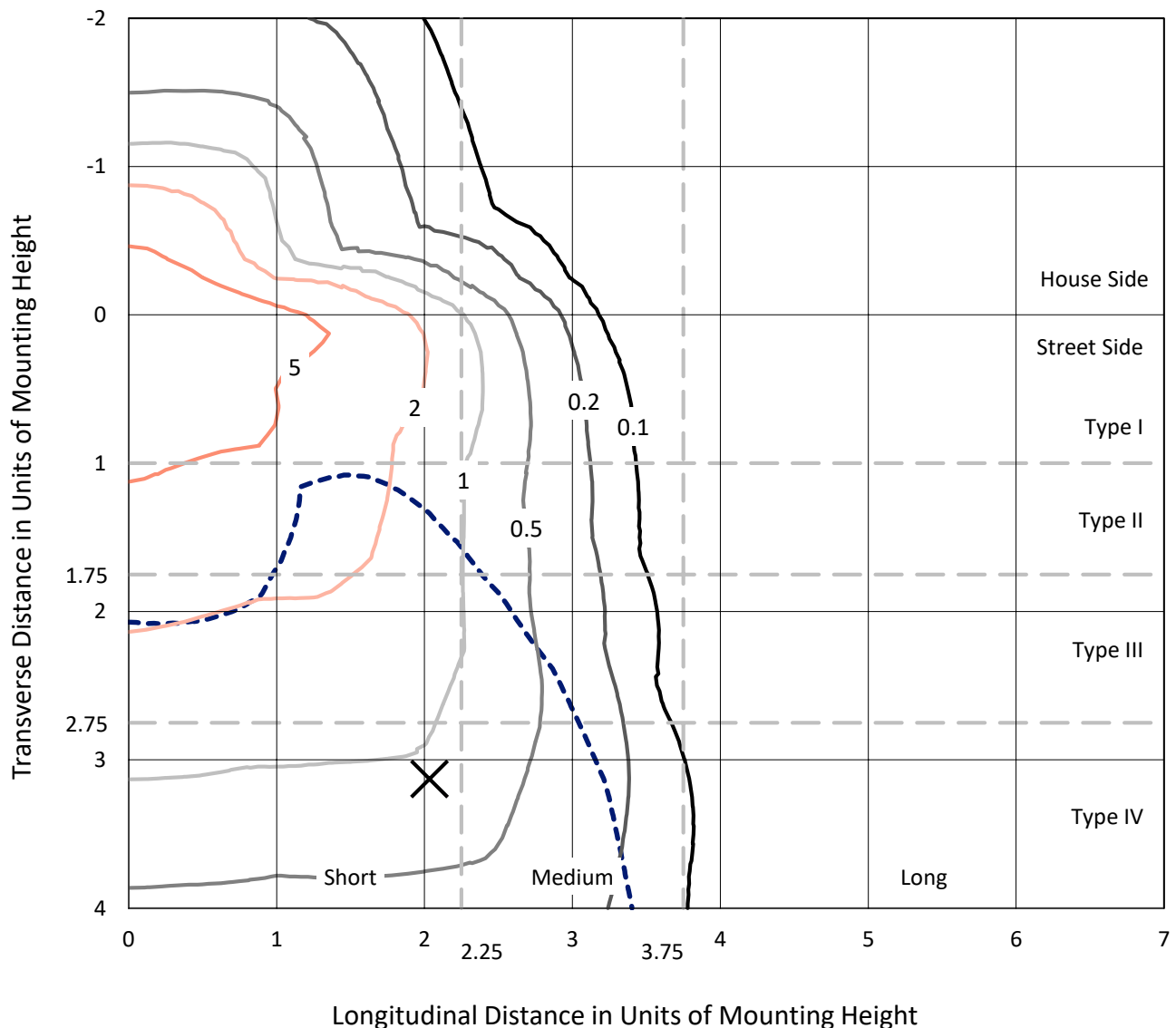
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

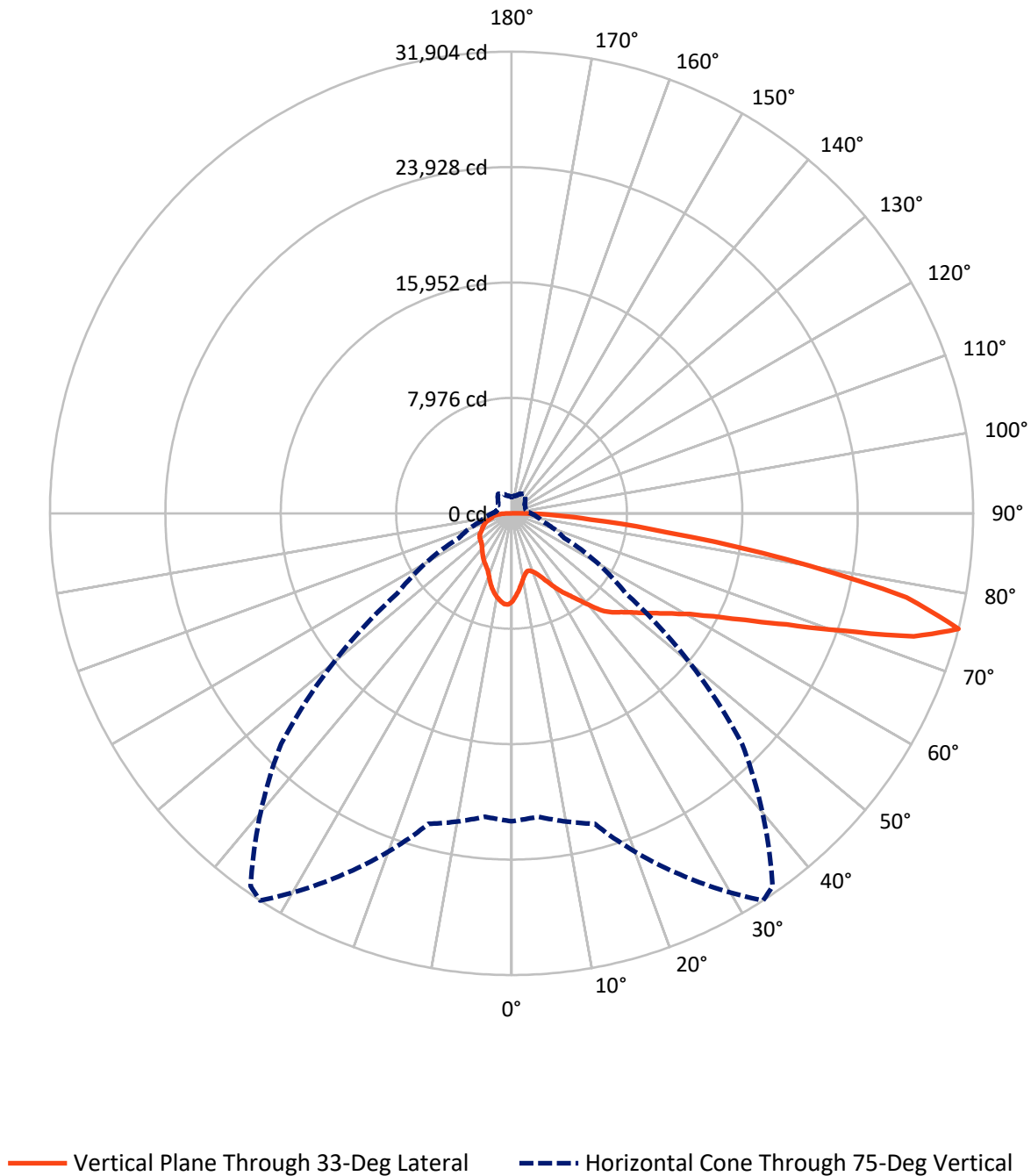
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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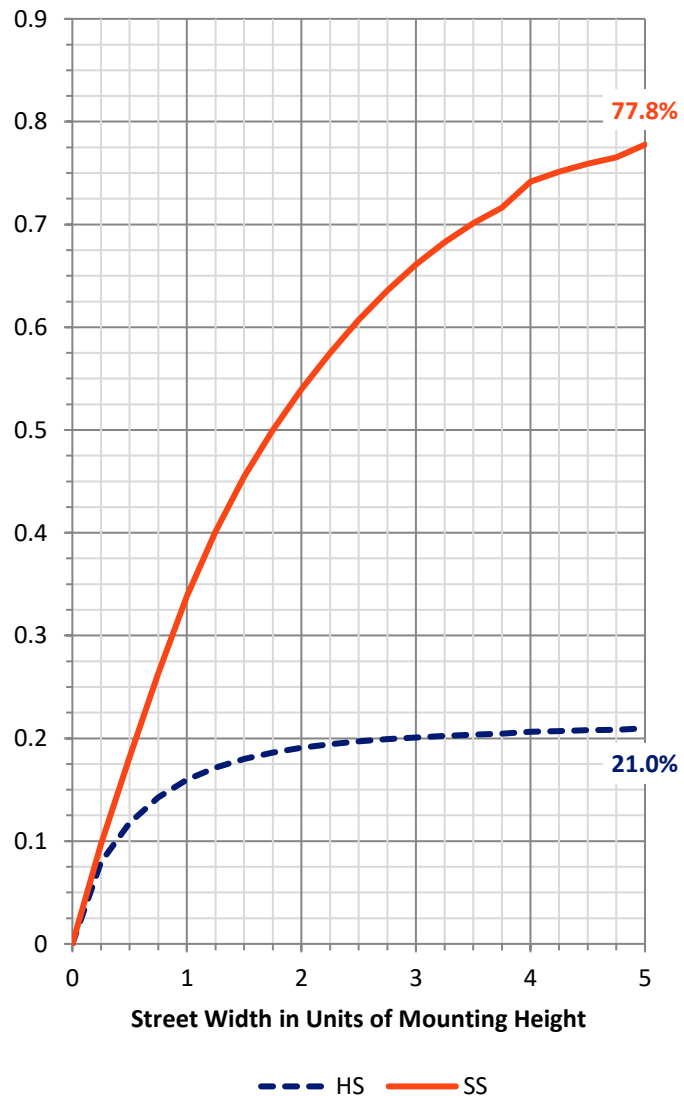
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8383.6	0.0	8383.6
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	30659.4	0.0	30659.4
	% Fixture	78.5	0.0	78.5
Total	Lumens	39043.0	0.0	39043.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.9	1.4
10°-20°	1494.8	3.8
20°-30°	2441.2	6.3
30°-40°	3635.5	9.3
40°-50°	5214.4	13.4
50°-60°	7158.5	18.3
60°-70°	8962.2	23.0
70°-80°	8107.6	20.8
80°-90°	1476.9	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°	39043.0	100.0
0°-180°	39043.0	100.0

Coefficient of Utilization



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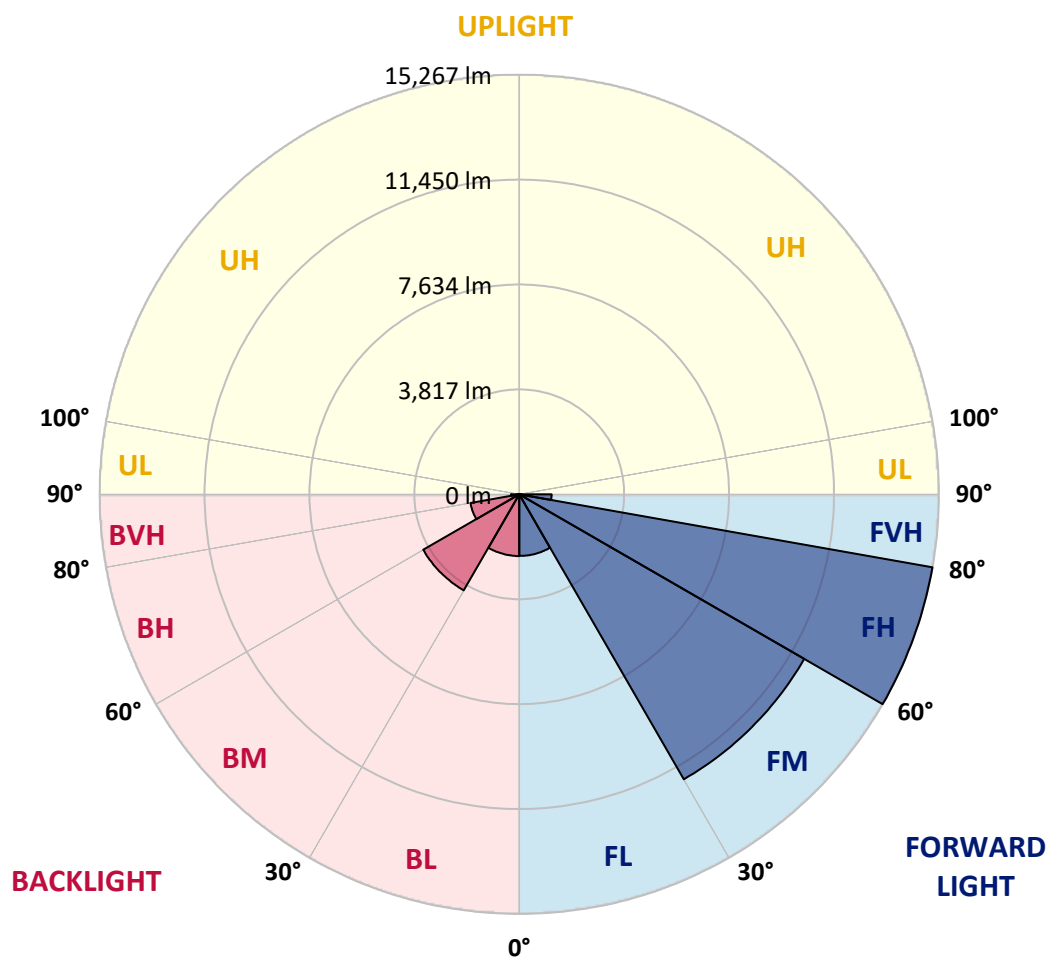
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2242.4	5.7			
FM	(30°-60°)	11973.7	30.7			
FH	(60°-80°)	15267.2	39.1			G5
FVH	(80°-90°)	1176.2	3.0			G5
BL	(0°-30°)	2245.5	5.8	B3/2500		
BM	(30°-60°)	4034.8	10.3	B3/5000		
BH	(60°-80°)	1802.6	4.6	B3/2500		G3/2500
BVH	(80°-90°)	300.7	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°	6102.6	6102.6	6102.6	6102.6	6102.6	6102.6	6102.6	6102.6	6102.6	6102.6	6102.6
2.5°	5667.0	5645.4	5685.9	5691.3	5726.4	5739.9	5788.4	5863.9	5926.0	5997.4	6062.2
5°	5153.2	5138.4	5195.0	5235.5	5312.3	5344.7	5459.3	5619.8	5762.8	5924.6	6071.6
7.5°	4665.0	4656.9	4720.3	4812.0	4901.0	4945.5	5143.7	5377.1	5615.8	5877.4	6102.6
10°	4253.6	4250.9	4311.6	4402.0	4532.8	4582.7	4839.0	5146.4	5480.9	5841.0	6155.2
12.5°	4023.0	4032.5	4060.8	4136.3	4257.7	4307.6	4592.2	4953.6	5367.6	5828.9	6232.1
15°	4079.7	4094.5	4045.9	4043.3	4129.6	4168.7	4435.7	4816.0	5286.7	5849.1	6344.0
17.5°	4321.1	4323.8	4195.6	4114.7	4167.3	4187.6	4387.2	4737.8	5239.5	5894.9	6484.3
20°	4660.9	4654.2	4427.6	4292.8	4321.1	4326.5	4455.9	4739.2	5235.5	5974.5	6666.4
22.5°	5111.4	5061.5	4756.7	4573.3	4566.5	4558.4	4632.6	4839.0	5294.8	6104.0	6883.5
25°	5699.4	5652.2	5232.8	4981.9	4928.0	4907.7	4918.5	5052.0	5412.1	6242.9	7126.3
27.5°	6353.5	6271.2	5866.6	5511.9	5400.0	5371.7	5306.9	5352.8	5540.3	6376.4	7414.9
30°	6901.0	6856.5	6503.2	6082.4	5950.2	5909.8	5739.9	5690.0	5725.0	6558.5	7779.0
32.5°	7207.2	7177.5	6963.1	6623.2	6500.5	6443.8	6203.8	6104.0	6021.7	6845.7	8272.6
35°	7578.1	7559.2	7429.7	7182.9	7000.8	6941.5	6755.4	6651.5	6439.8	7240.9	8910.5
37.5°	8050.1	8029.9	8032.6	7833.0	7615.8	7560.5	7437.8	7328.6	6982.0	7760.1	9603.7
40°	8584.2	8545.0	8530.2	8520.8	8383.2	8352.2	8287.5	8139.1	7661.7	8380.5	10287.5
42.5°	9388.0	9249.0	8952.3	9064.3	9200.5	9184.3	9236.9	9023.8	8416.9	9114.2	10955.1
45°	10163.4	9935.5	9423.0	9447.3	9745.3	9835.7	10229.5	10078.5	9235.6	9918.0	11645.6
47.5°	10516.8	10344.1	9908.5	9909.9	10205.2	10392.7	11255.8	11147.9	10096.0	10831.0	12488.5
50°	10911.9	10739.3	10348.2	10495.2	10752.8	10952.4	12247.1	12191.8	10914.6	11830.4	13498.6
52.5°	11343.5	11050.8	10802.7	11065.7	11427.1	11659.1	13239.7	13088.6	11665.8	12836.4	14659.8
55°	11348.9	11269.3	11458.1	11651.0	12191.8	12476.4	14279.5	13880.3	12278.1	13825.0	15605.2
57.5°	11994.9	11865.4	12266.0	12355.0	13061.7	13382.7	15313.9	14569.5	12901.2	14582.9	16115.0
60°	12849.9	12739.3	13067.1	13301.7	14137.9	14566.8	16418.5	15277.5	13390.7	15154.8	16090.7
62.5°	14326.7	14201.3	14197.2	14526.3	15652.4	16151.4	17657.9	15972.1	13584.9	15268.1	15404.3
65°	16488.6	16289.0	15912.7	16069.2	17744.2	18241.8	19042.9	16475.1	13328.7	14661.2	13636.2
67.5°	18592.5	18585.7	18123.2	18444.1	20506.2	20905.4	20620.9	16525.0	12529.0	12547.8	10499.2
70°	20689.6	20716.6	20638.4	21755.1	24237.9	24653.3	22301.3	15854.7	10731.2	9061.6	6290.1
72.5°	22351.2	22344.4	22738.2	25617.6	29080.9	28987.9	23717.4	13823.7	7704.8	4891.6	3006.1
75°	21274.9	21040.3	22213.6	27530.0	31903.7	31449.2	22513.0	9642.8	3998.7	2226.6	1618.4
77.5°	13876.3	14098.8	15821.0	22742.3	27906.3	27353.3	16516.9	4499.1	1884.1	1460.6	1173.3
80°	5025.1	5259.7	7408.1	12882.3	19226.3	19136.0	8133.7	1849.0	1274.5	1103.2	855.0
82.5°	1729.0	1815.3	2922.5	5721.0	10855.3	11259.9	3060.1	1050.6	926.5	782.2	585.3
85°	678.4	776.8	1336.5	2752.6	5475.5	5516.0	1239.4	628.5	644.7	512.5	321.0
87.5°	257.6	312.9	639.3	1278.5	2500.4	2296.8	443.7	299.4	366.8	304.8	152.4
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°	6102.6	6102.6	6102.6	6102.6	6102.6	6102.6	6102.6	6102.6	6102.6	6102.6	6102.6
2.5°	6112.1	6140.4	6199.7	6240.2	6283.4	6295.5	6300.9	6311.7	6322.5	6318.4	6319.8
5°	6149.8	6205.1	6300.9	6341.4	6360.2	6338.7	6296.8	6263.1	6238.9	6225.4	6221.3
7.5°	6211.9	6290.1	6392.6	6385.9	6342.7	6246.9	6139.1	6058.1	5990.7	5966.4	5952.9
10°	6294.1	6385.9	6457.3	6380.5	6255.0	6089.2	5927.3	5801.9	5700.7	5661.6	5654.9
12.5°	6399.3	6492.4	6505.9	6342.7	6135.0	5908.4	5688.6	5522.7	5371.7	5323.1	5312.3
15°	6535.6	6623.2	6539.6	6276.6	5986.7	5681.9	5397.3	5172.1	5012.9	4953.6	4932.0
17.5°	6678.5	6762.1	6546.3	6167.4	5792.5	5413.5	5056.1	4825.5	4643.4	4574.6	4566.5
20°	6849.8	6887.6	6518.0	6010.9	5525.4	5065.5	4689.3	4472.1	4375.0	4326.5	4321.1
22.5°	7061.5	7021.1	6453.3	5799.2	5186.9	4663.6	4357.5	4256.3	4232.1	4221.3	4225.3
25°	7285.4	7161.3	6357.5	5522.7	4759.4	4261.7	4114.7	4143.1	4175.4	4171.4	4171.4
27.5°	7532.2	7304.3	6210.5	5155.9	4286.0	3932.7	3950.2	4054.0	4102.6	4101.2	4099.9
30°	7849.1	7466.1	6023.1	4714.9	3843.7	3700.7	3807.2	3934.0	4000.1	3997.4	3998.7
32.5°	8238.9	7644.1	5768.2	4222.6	3524.0	3529.4	3652.1	3777.6	3854.4	3847.7	3849.0
35°	8694.7	7843.7	5422.9	3737.1	3312.3	3393.2	3490.3	3578.0	3650.8	3641.4	3631.9
37.5°	9191.0	8039.3	4964.4	3302.8	3139.7	3266.4	3347.3	3362.2	3395.9	3371.6	3354.1
40°	9663.1	8189.0	4373.7	2946.8	2965.7	3158.5	3211.1	3151.8	3091.1	3083.0	3058.7
42.5°	10074.4	8238.9	3776.2	2662.2	2782.3	3045.3	3077.6	2953.5	2844.3	2793.1	2771.5
45°	10508.7	8256.4	3219.2	2423.5	2605.6	2944.1	2979.2	2813.3	2659.5	2548.9	2512.5
47.5°	11076.5	8383.2	2786.3	2246.9	2470.7	2876.7	2926.6	2701.3	2501.7	2344.0	2310.2
50°	11819.6	8634.1	2434.3	2112.0	2383.1	2832.2	2888.8	2592.1	2372.3	2182.1	2148.4
52.5°	12644.9	8864.7	2149.7	2002.7	2298.1	2753.9	2840.3	2513.9	2250.9	2032.4	1996.0
55°	13222.2	8688.0	1920.5	1889.5	2187.5	2642.0	2772.8	2447.8	2076.9	1886.8	1854.4
57.5°	13332.8	8083.8	1746.5	1772.1	2054.0	2501.7	2669.0	2300.8	1982.5	1823.4	1789.7
60°	13030.7	7242.2	1617.0	1664.2	1911.0	2325.1	2474.8	2197.0	1892.2	1755.9	1727.6
62.5°	12271.4	6380.5	1521.3	1567.1	1777.5	2145.7	2353.4	2087.7	1800.4	1679.1	1650.7
65°	10737.9	5356.8	1429.6	1480.8	1653.4	1990.6	2244.2	1986.6	1710.1	1617.0	1590.1
67.5°	8105.4	4012.2	1343.3	1389.1	1542.9	1855.7	2125.5	1886.8	1622.4	1563.1	1530.7
70°	4772.9	2512.5	1244.8	1293.4	1426.9	1715.5	1998.7	1777.5	1513.2	1486.2	1444.4
72.5°	2221.2	1511.8	1132.9	1180.1	1281.2	1528.0	1835.5	1634.6	1383.7	1324.4	1267.7
75°	1325.7	1105.9	1000.7	1042.5	1114.0	1328.4	1630.5	1488.9	1261.0	1182.8	1123.4
77.5°	991.3	845.6	855.0	899.5	957.5	1162.5	1444.4	1374.3	1166.6	1105.9	1065.4
80°	713.4	642.0	697.3	745.8	806.5	1057.3	1383.7	1270.4	1054.6	973.7	936.0
82.5°	476.1	461.2	524.6	574.5	633.9	925.2	1300.1	1112.6	900.9	798.4	714.8
85°	263.0	277.8	353.3	374.9	426.2	651.4	1065.4	894.2	678.4	546.2	521.9
87.5°	109.2	128.1	190.2	183.4	226.6	388.4	701.3	539.5	431.6	322.3	250.8
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)