

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: P318860

Luminaire Tested: **GAN-SA6D-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318860
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-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 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: 34320 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

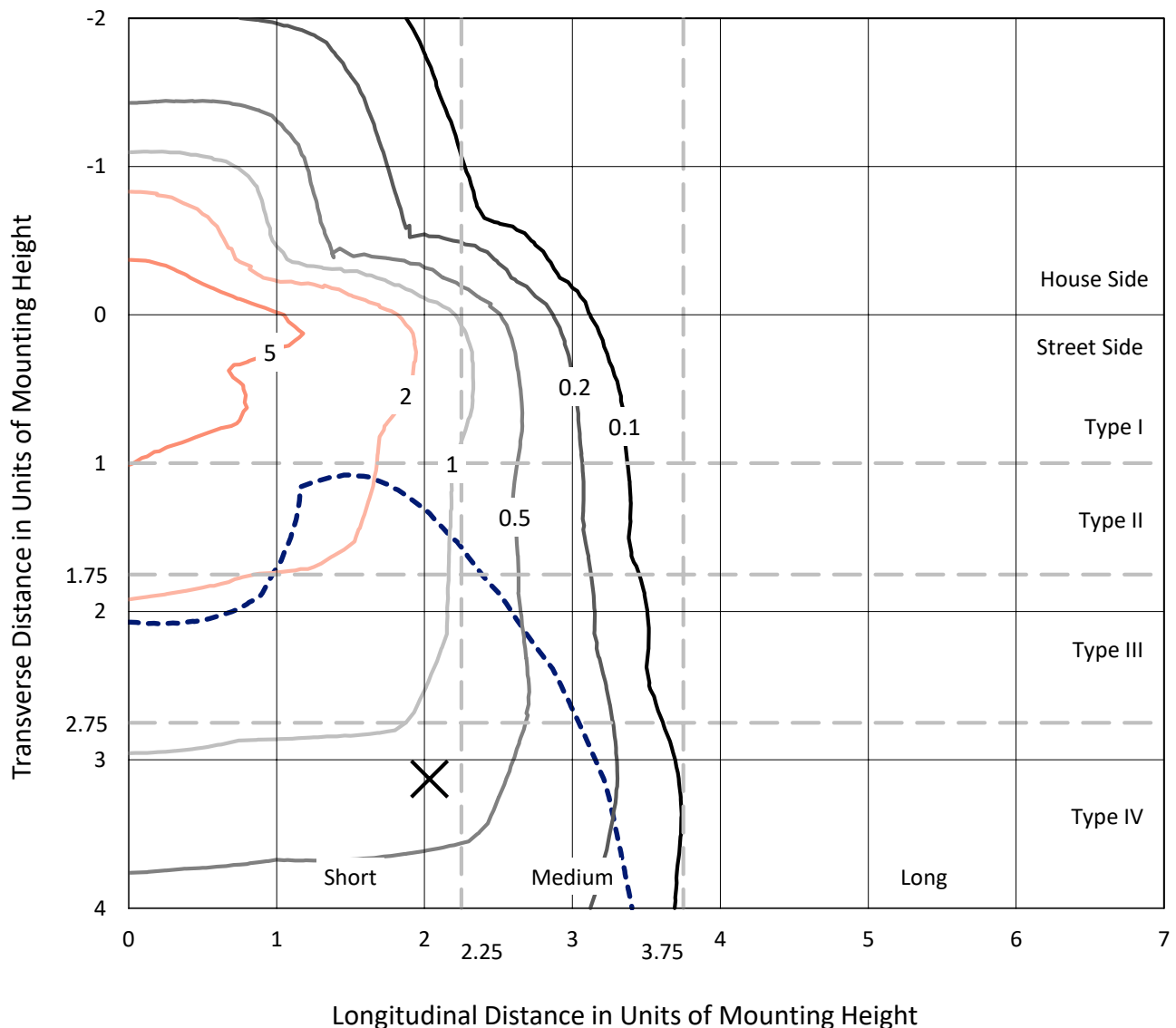
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

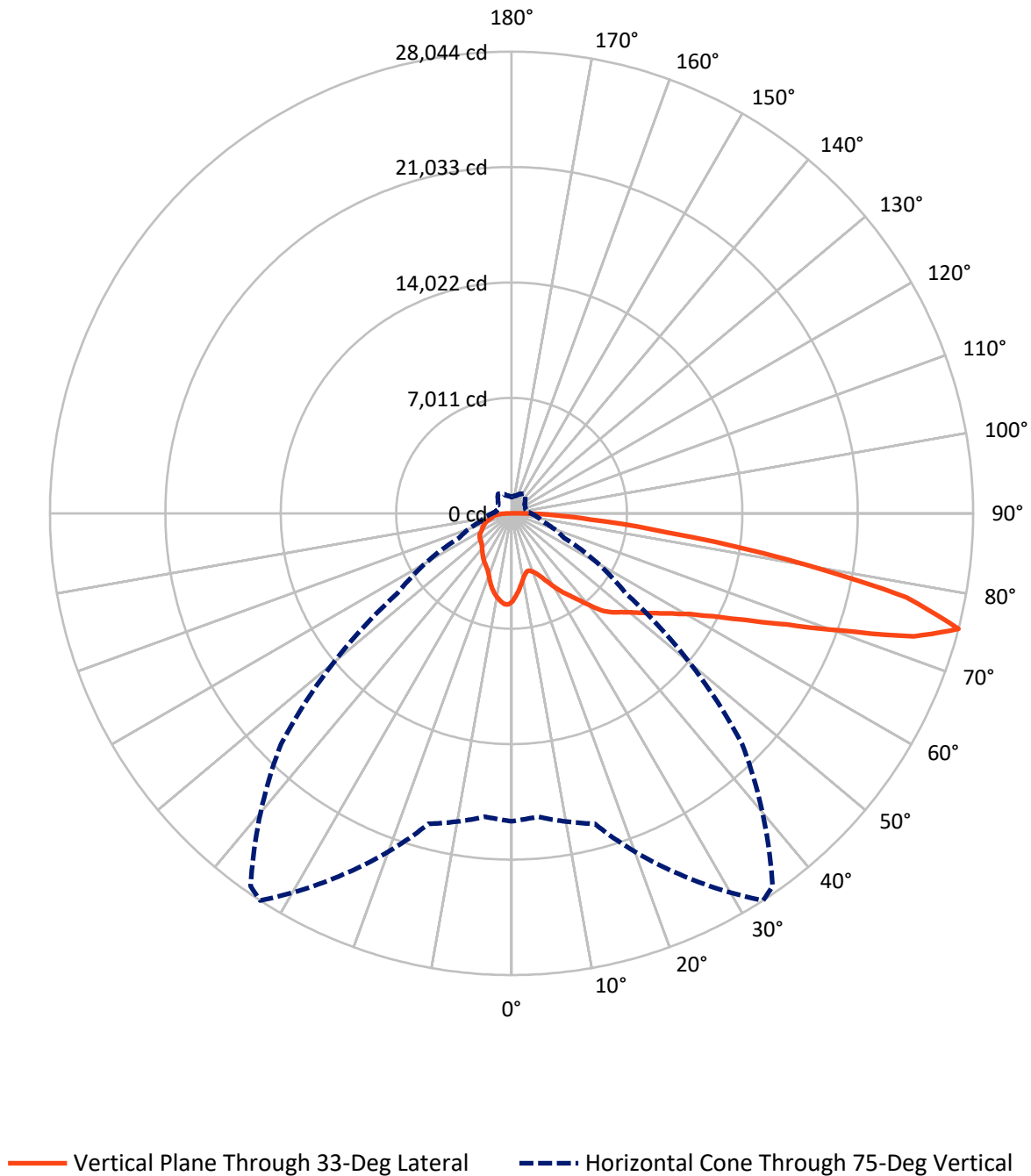
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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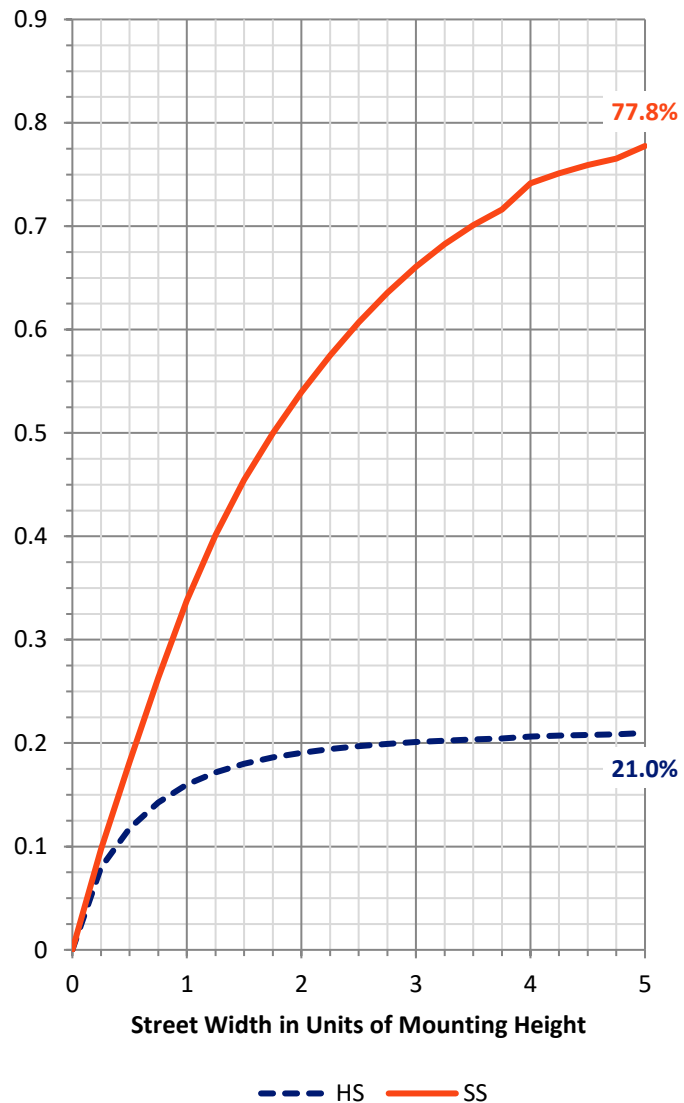
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7369.4	0.0	7369.4
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	26950.6	0.0	26950.6
	% Fixture	78.5	0.0	78.5
Total	Lumens	34320.0	0.0	34320.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.1	1.4
10°-20°	1314.0	3.8
20°-30°	2145.9	6.3
30°-40°	3195.8	9.3
40°-50°	4583.6	13.4
50°-60°	6292.6	18.3
60°-70°	7878.0	23.0
70°-80°	7126.9	20.8
80°-90°	1298.2	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°	34320.0	100.0
0°-180°	34320.0	100.0

Coefficient of Utilization



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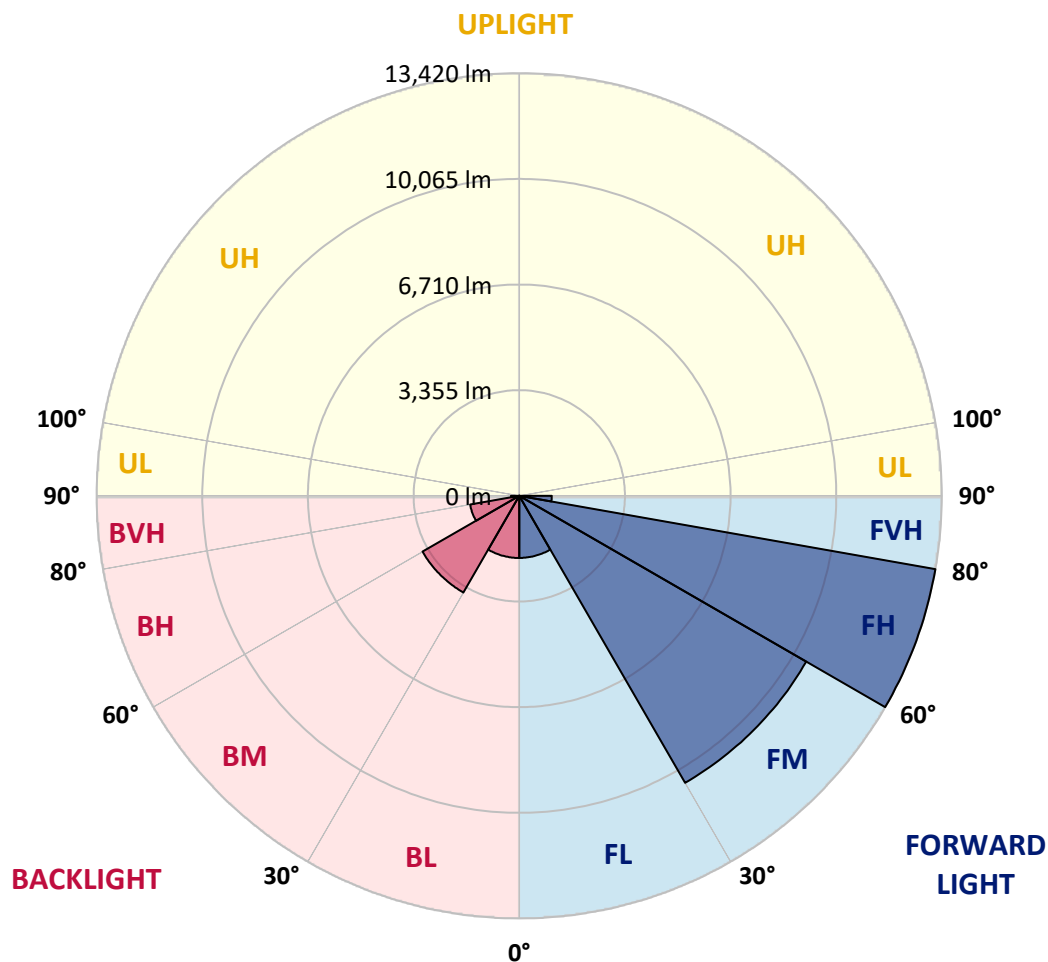
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1971.2	5.7			
FM	(30°-60°)	10525.2	30.7			
FH	(60°-80°)	13420.3	39.1			G5
FVH	(80°-90°)	1033.9	3.0			G5
BL	(0°-30°)	1973.9	5.8	B3/2500		
BM	(30°-60°)	3546.7	10.3	B3/5000		
BH	(60°-80°)	1584.6	4.6	B3/2500		G3/2500
BVH	(80°-90°)	264.3	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°	5364.4	5364.4	5364.4	5364.4	5364.4	5364.4	5364.4	5364.4	5364.4	5364.4	5364.4
2.5°	4981.5	4962.5	4998.1	5002.8	5033.7	5045.5	5088.2	5154.6	5209.1	5271.9	5328.8
5°	4529.8	4516.8	4566.6	4602.1	4669.7	4698.2	4798.9	4940.0	5065.7	5207.9	5337.1
7.5°	4100.7	4093.5	4149.3	4229.9	4308.1	4347.2	4521.5	4726.6	4936.4	5166.4	5364.4
10°	3739.1	3736.7	3790.1	3869.5	3984.5	4028.3	4253.6	4523.9	4817.9	5134.4	5410.6
12.5°	3536.4	3544.7	3569.6	3635.9	3742.6	3786.5	4036.6	4354.4	4718.3	5123.8	5478.2
15°	3586.2	3599.2	3556.5	3554.1	3630.0	3664.4	3899.1	4233.4	4647.2	5141.5	5576.6
17.5°	3798.4	3800.7	3688.1	3617.0	3663.2	3681.0	3856.4	4164.7	4605.7	5181.8	5699.9
20°	4097.1	4091.2	3892.0	3773.5	3798.4	3803.1	3916.9	4165.9	4602.1	5251.8	5859.9
22.5°	4493.1	4449.2	4181.3	4020.0	4014.1	4007.0	4072.2	4253.6	4654.3	5365.6	6050.8
25°	5009.9	4968.4	4599.8	4379.3	4331.8	4314.1	4323.5	4440.9	4757.4	5487.7	6264.2
27.5°	5584.9	5512.6	5156.9	4845.2	4746.8	4721.9	4665.0	4705.3	4870.1	5605.1	6517.9
30°	6066.2	6027.1	5716.5	5346.6	5230.4	5194.9	5045.5	5001.6	5032.5	5765.1	6838.0
32.5°	6335.3	6309.3	6120.8	5822.0	5714.1	5664.3	5453.3	5365.6	5293.3	6017.6	7271.9
35°	6661.4	6644.8	6530.9	6314.0	6154.0	6101.8	5938.2	5846.9	5660.8	6365.0	7832.6
37.5°	7076.3	7058.5	7060.9	6885.4	6694.5	6645.9	6538.1	6442.0	6137.4	6821.4	8442.0
40°	7545.7	7511.4	7498.3	7490.0	7369.1	7341.8	7284.9	7154.5	6734.9	7366.7	9043.0
42.5°	8252.3	8130.2	7869.4	7967.8	8087.5	8073.3	8119.5	7932.2	7398.7	8011.6	9629.9
45°	8934.0	8733.6	8283.1	8304.5	8566.5	8645.9	8992.1	8859.3	8118.3	8718.2	10236.8
47.5°	9244.6	9092.8	8709.9	8711.1	8970.7	9135.5	9894.2	9799.4	8874.7	9520.8	10977.8
50°	9591.9	9440.2	9096.4	9225.6	9452.0	9627.5	10765.6	10717.0	9594.3	10399.2	11865.7
52.5°	9971.3	9714.0	9495.9	9727.1	10044.8	10248.7	11638.1	11505.3	10254.6	11283.6	12886.4
55°	9976.0	9906.1	10072.0	10241.6	10717.0	10967.1	12552.1	12201.2	10792.8	12152.6	13717.5
57.5°	10543.9	10430.1	10782.2	10860.4	11481.6	11763.8	13461.4	12807.0	11340.5	12818.9	14165.6
60°	11295.5	11198.3	11486.4	11692.6	12427.6	12804.6	14432.3	13429.4	11770.9	13321.5	14144.3
62.5°	12593.6	12483.4	12479.8	12769.1	13759.0	14197.6	15521.8	14039.9	11941.6	13421.1	13540.8
65°	14494.0	14318.5	13987.8	14125.3	15597.7	16035.1	16739.3	14482.1	11716.3	12887.6	11986.6
67.5°	16343.4	16337.4	15930.8	16213.0	18025.6	18376.5	18126.4	14526.0	11013.3	11029.9	9229.2
70°	18186.8	18210.5	18141.8	19123.4	21305.9	21671.0	19603.5	13936.8	9433.1	7965.4	5529.2
72.5°	19647.4	19641.4	19987.6	22518.7	25563.0	25481.2	20848.3	12151.4	6772.8	4299.8	2642.5
75°	18701.3	18495.1	19526.4	24199.7	28044.3	27644.8	19789.6	8476.4	3515.0	1957.3	1422.6
77.5°	12197.7	12393.3	13907.2	19991.2	24530.5	24044.4	14518.9	3954.8	1656.1	1283.9	1031.4
80°	4417.2	4623.5	6512.0	11323.9	16900.6	16821.1	7149.8	1625.3	1120.3	969.7	751.6
82.5°	1519.8	1595.7	2569.0	5028.9	9542.1	9897.8	2689.9	923.5	814.4	687.6	514.5
85°	596.3	682.9	1174.8	2419.6	4813.1	4848.7	1089.5	552.4	566.7	450.5	282.2
87.5°	226.4	275.0	561.9	1123.9	2197.9	2018.9	390.0	263.2	322.5	267.9	134.0
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°	5364.4	5364.4	5364.4	5364.4	5364.4	5364.4	5364.4	5364.4	5364.4	5364.4	5364.4
2.5°	5372.7	5397.6	5449.8	5485.3	5523.3	5533.9	5538.7	5548.2	5557.6	5554.1	5555.3
5°	5405.9	5454.5	5538.7	5574.2	5590.8	5571.9	5535.1	5505.5	5484.1	5472.3	5468.7
7.5°	5460.4	5529.2	5619.3	5613.4	5575.4	5491.3	5396.4	5325.3	5266.0	5244.7	5232.8
10°	5532.8	5613.4	5676.2	5608.6	5498.4	5352.6	5210.3	5100.0	5011.1	4976.7	4970.8
12.5°	5625.2	5707.0	5718.9	5575.4	5392.9	5193.7	5000.5	4854.6	4721.9	4679.2	4669.7
15°	5745.0	5822.0	5748.5	5517.3	5262.5	4994.5	4744.4	4546.4	4406.5	4354.4	4335.4
17.5°	5870.6	5944.1	5754.4	5421.3	5091.7	4758.6	4444.5	4241.7	4081.7	4021.2	4014.1
20°	6021.2	6054.4	5729.5	5283.8	4857.0	4452.8	4122.0	3931.1	3845.8	3803.1	3798.4
22.5°	6207.3	6171.7	5672.6	5097.7	4559.5	4099.5	3830.4	3741.5	3720.1	3710.6	3714.2
25°	6404.1	6295.0	5588.5	4854.6	4183.6	3746.2	3617.0	3641.9	3670.3	3666.8	3666.8
27.5°	6621.0	6420.7	5459.2	4532.2	3767.5	3456.9	3472.3	3563.6	3606.3	3605.1	3603.9
30°	6899.6	6563.0	5294.5	4144.5	3378.7	3253.0	3346.7	3458.1	3516.2	3513.8	3515.0
32.5°	7242.2	6719.4	5070.4	3711.8	3097.7	3102.5	3210.3	3320.6	3388.2	3382.2	3383.4
35°	7642.9	6894.9	4766.9	3285.0	2911.6	2982.7	3068.1	3145.1	3209.2	3200.9	3192.6
37.5°	8079.2	7066.8	4363.8	2903.3	2759.9	2871.3	2942.4	2955.5	2985.1	2963.8	2948.3
40°	8494.1	7198.4	3844.6	2590.3	2606.9	2776.5	2822.7	2770.5	2717.2	2710.1	2688.7
42.5°	8855.7	7242.2	3319.4	2340.2	2445.7	2676.9	2705.3	2596.3	2500.2	2455.2	2436.2
45°	9237.5	7257.7	2829.8	2130.4	2290.4	2588.0	2618.8	2473.0	2337.8	2240.6	2208.6
47.5°	9736.5	7369.1	2449.3	1975.1	2171.8	2528.7	2572.5	2374.6	2199.1	2060.4	2030.8
50°	10389.8	7589.6	2139.8	1856.5	2094.8	2489.6	2539.4	2278.5	2085.3	1918.1	1888.5
52.5°	11115.3	7792.3	1889.7	1760.5	2020.1	2420.8	2496.7	2209.8	1978.6	1786.6	1754.5
55°	11622.7	7637.0	1688.2	1660.9	1922.9	2322.4	2437.4	2151.7	1825.7	1658.5	1630.1
57.5°	11719.9	7105.9	1535.2	1557.8	1805.5	2199.1	2346.1	2022.5	1742.7	1602.8	1573.2
60°	11454.3	6366.2	1421.4	1462.9	1679.9	2043.8	2175.4	1931.2	1663.3	1543.5	1518.6
62.5°	10786.9	5608.6	1337.2	1377.6	1562.5	1886.1	2068.7	1835.2	1582.6	1476.0	1451.1
65°	9439.0	4708.8	1256.6	1301.7	1453.4	1749.8	1972.7	1746.2	1503.2	1421.4	1397.7
67.5°	7124.9	3526.9	1180.8	1221.1	1356.2	1631.3	1868.4	1658.5	1426.2	1374.0	1345.5
70°	4195.5	2208.6	1094.2	1136.9	1254.3	1508.0	1756.9	1562.5	1330.1	1306.4	1269.7
72.5°	1952.5	1329.0	995.8	1037.3	1126.2	1343.2	1613.5	1436.8	1216.3	1164.2	1114.4
75°	1165.4	972.1	879.6	916.4	979.2	1167.7	1433.3	1308.8	1108.4	1039.7	987.5
77.5°	871.3	743.3	751.6	790.7	841.7	1021.9	1269.7	1208.0	1025.5	972.1	936.5
80°	627.1	564.3	612.9	655.6	708.9	929.4	1216.3	1116.7	927.1	855.9	822.7
82.5°	418.5	405.4	461.2	505.0	557.2	813.3	1142.8	978.0	791.9	701.8	628.3
85°	231.2	244.2	310.6	329.6	374.6	572.6	936.5	786.0	596.3	480.1	458.8
87.5°	96.0	112.6	167.2	161.2	199.2	341.4	616.5	474.2	379.4	283.3	220.5
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)