

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: P318664

Luminaire Tested: **GAN-SA0D-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318664
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-SA0D-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 64612 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

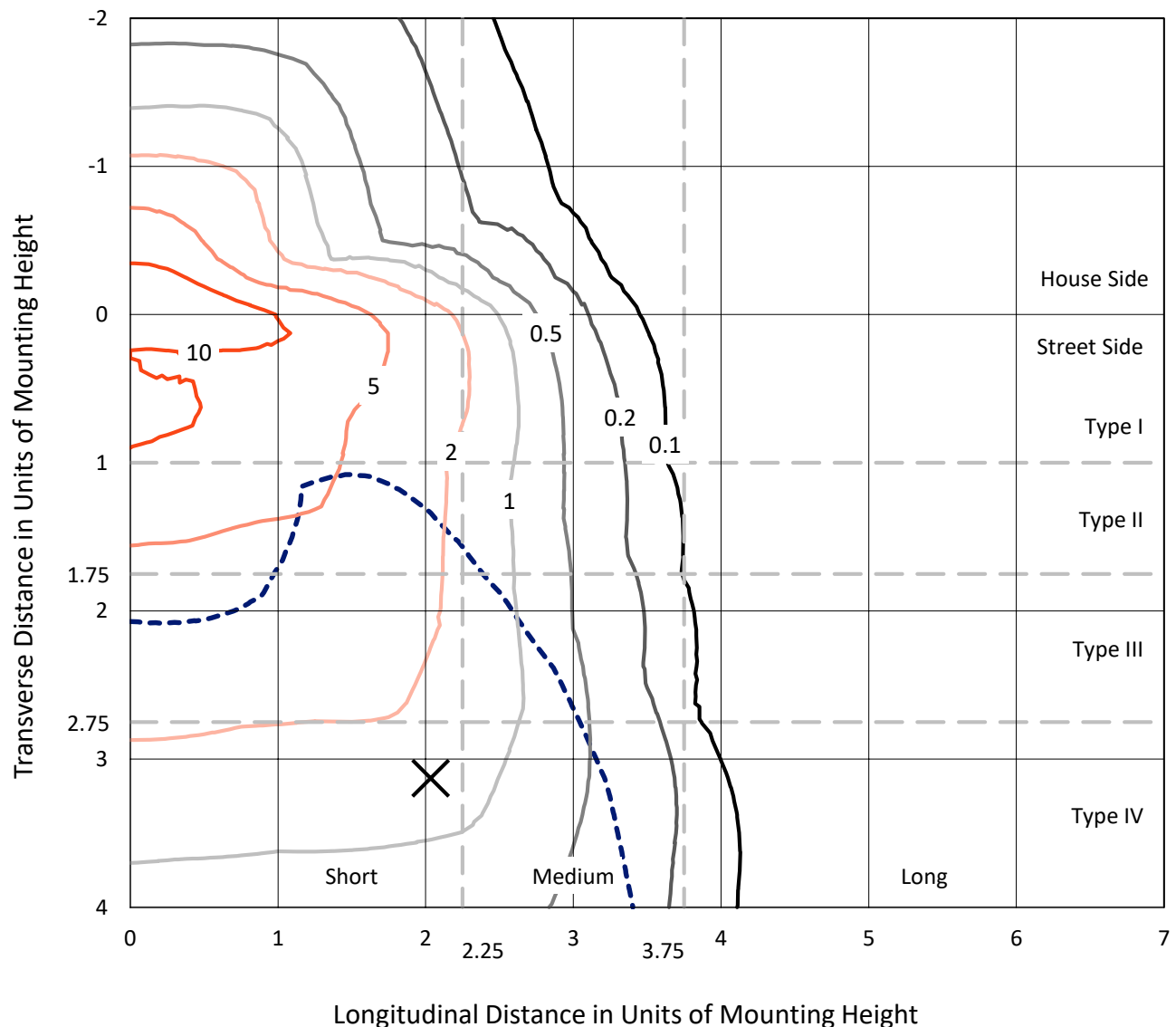
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

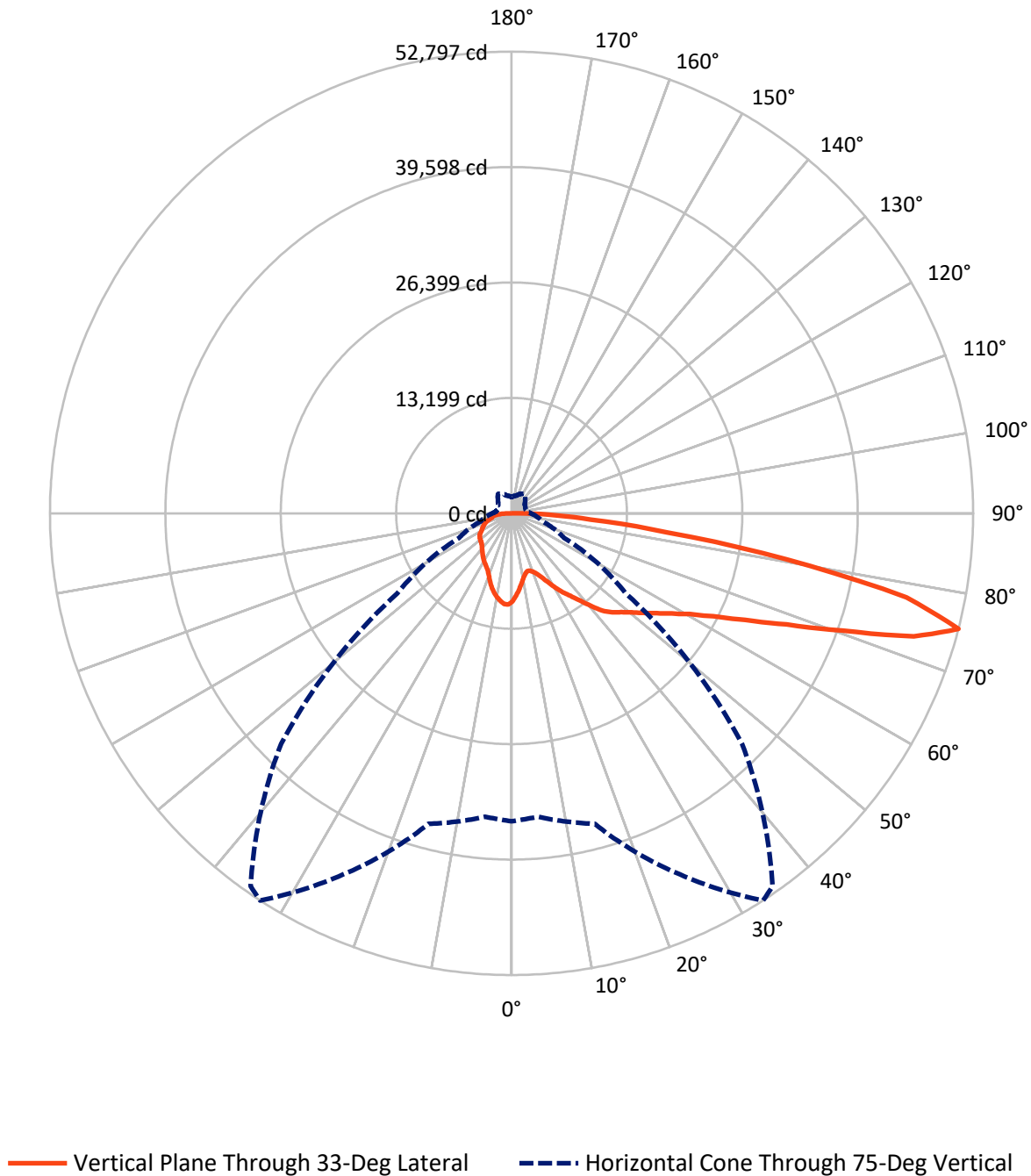
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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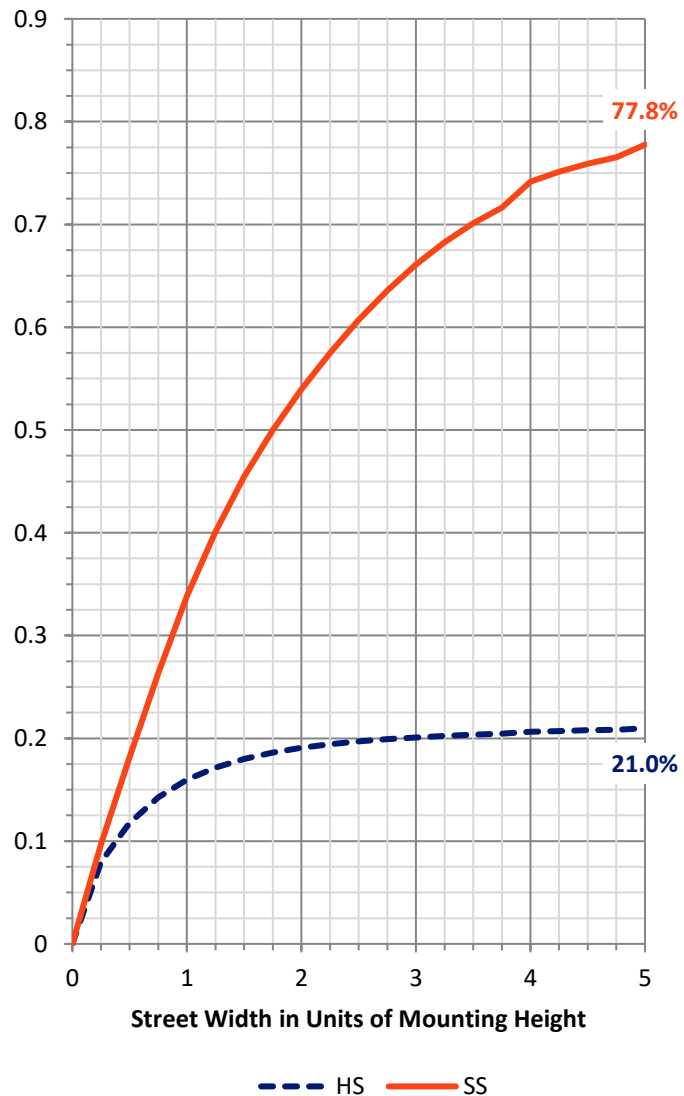
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13873.9	0.0	13873.9
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	50738.1	0.0	50738.1
	% Fixture	78.5	0.0	78.5
Total	Lumens	64612.0	0.0	64612.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	913.3	1.4
10°-20°	2473.7	3.8
20°-30°	4040.0	6.3
30°-40°	6016.5	9.3
40°-50°	8629.2	13.4
50°-60°	11846.6	18.3
60°-70°	14831.4	23.0
70°-80°	13417.3	20.8
80°-90°	2444.0	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°	64612.0	100.0
0°-180°	64612.0	100.0

Coefficient of Utilization



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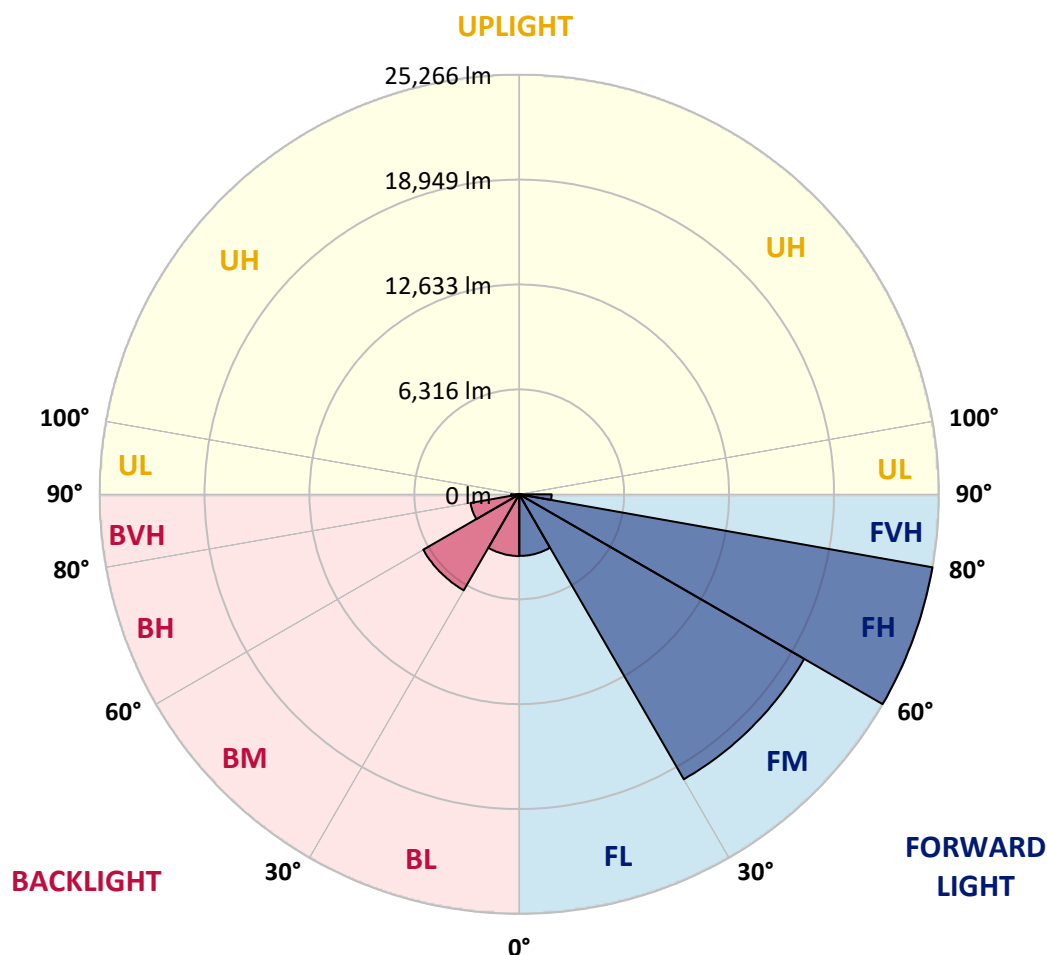
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3711.0	5.7			
FM	(30°-60°)	19815.2	30.7			
FH	(60°-80°)	25265.5	39.1			G5
FVH	(80°-90°)	1946.5	3.0			G5
BL	(0°-30°)	3716.1	5.8	B4/5000		
BM	(30°-60°)	6677.1	10.3	B4/8500		
BH	(60°-80°)	2983.1	4.6	B4/5000		G4/5000
BVH	(80°-90°)	497.6	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°	10099.2	10099.2	10099.2	10099.2	10099.2	10099.2	10099.2	10099.2	10099.2	10099.2	10099.2
2.5°	9378.3	9342.6	9409.6	9418.5	9476.5	9498.8	9579.2	9704.2	9806.8	9925.1	10032.3
5°	8528.0	8503.4	8597.2	8664.1	8791.3	8844.9	9034.6	9300.2	9536.8	9804.6	10047.9
7.5°	7720.0	7706.7	7811.5	7963.3	8110.6	8184.3	8512.4	8898.5	9293.5	9726.5	10099.2
10°	7039.3	7034.9	7135.3	7284.8	7501.3	7583.9	8008.0	8516.8	9070.3	9666.2	10186.3
12.5°	6657.7	6673.3	6720.2	6845.1	7046.0	7128.6	7599.5	8197.7	8882.8	9646.1	10313.5
15°	6751.4	6776.0	6695.6	6691.2	6834.0	6898.7	7340.6	7970.0	8748.9	9679.6	10498.7
17.5°	7150.9	7155.4	6943.4	6809.4	6896.5	6930.0	7260.3	7840.6	8670.8	9755.5	10730.8
20°	7713.3	7702.2	7327.2	7104.0	7150.9	7159.8	7374.1	7842.8	8664.1	9887.2	11032.1
22.5°	8458.8	8376.2	7871.8	7568.3	7557.1	7543.7	7666.5	8008.0	8762.3	10101.4	11391.5
25°	9431.9	9353.8	8659.7	8244.5	8155.3	8121.8	8139.6	8360.6	8956.5	10331.3	11793.2
27.5°	10514.3	10378.2	9708.6	9121.7	8936.4	8889.5	8782.4	8858.3	9168.5	10552.3	12270.8
30°	11420.5	11346.8	10762.1	10065.7	9847.0	9780.1	9498.8	9416.3	9474.3	10853.6	12873.4
32.5°	11927.1	11878.0	11523.2	10960.7	10757.6	10663.9	10266.6	10101.4	9965.3	11329.0	13690.3
35°	12540.9	12509.6	12295.4	11886.9	11585.6	11487.4	11179.4	11007.6	10657.2	11982.9	14746.0
37.5°	13322.0	13288.6	13293.0	12962.7	12603.4	12511.9	12308.8	12128.0	11554.4	12842.2	15893.2
40°	14205.9	14141.1	14116.6	14101.0	13873.3	13822.0	13714.8	13469.3	12679.3	13868.8	17024.7
42.5°	15536.1	15306.2	14815.2	15000.4	15225.8	15199.0	15286.1	14933.5	13929.1	15083.0	18129.5
45°	16819.4	16442.2	15594.1	15634.3	16127.5	16277.0	16928.7	16678.8	15283.9	16413.2	19272.2
47.5°	17404.1	17118.5	16397.6	16399.8	16888.6	17198.8	18627.2	18448.6	16707.8	17924.2	20667.1
50°	18058.1	17772.4	17125.1	17368.4	17794.7	18125.0	20267.6	20176.1	18062.5	19578.0	22338.8
52.5°	18772.3	18288.0	17877.3	18312.5	18910.6	19294.5	21910.3	21660.3	19305.7	21243.0	24260.4
55°	18781.2	18649.5	18962.0	19281.1	20176.1	20647.0	23631.1	22970.4	20319.0	22878.9	25825.0
57.5°	19850.3	19636.0	20298.9	20446.2	21615.7	22146.9	25342.9	24110.9	21350.1	24133.2	26668.6
60°	21265.3	21082.3	21624.6	22012.9	23396.7	24106.4	27170.8	25282.6	22160.3	25079.5	26628.5
62.5°	23709.2	23501.6	23494.9	24039.5	25903.1	26728.9	29221.9	26432.1	22481.6	25267.0	25492.4
65°	27286.9	26956.5	26333.9	26592.7	29364.7	30188.3	31514.0	27264.5	22057.6	24262.7	22566.5
67.5°	30768.6	30757.4	29991.9	30523.1	33935.6	34596.2	34125.3	27347.1	20734.1	20765.3	17375.1
70°	34239.1	34283.8	34154.3	36002.3	40111.2	40798.6	36906.2	26237.9	17759.0	14995.9	10409.4
72.5°	36988.8	36977.6	37629.4	42394.4	48125.8	47971.8	39249.7	22876.7	12750.7	8095.0	4974.8
75°	35207.8	34819.4	36761.2	45559.2	52797.1	52045.0	37256.6	15957.9	6617.5	3684.8	2678.2
77.5°	22963.7	23332.0	26182.1	37636.0	46181.9	45266.8	27333.7	7445.5	3117.9	2417.1	1941.7
80°	8316.0	8704.3	12259.7	21318.8	31817.6	31668.0	13460.4	3059.9	2109.1	1825.7	1415.0
82.5°	2861.3	3004.1	4836.5	9467.6	17964.3	18633.9	5064.1	1738.6	1533.3	1294.5	968.6
85°	1122.6	1285.6	2211.8	4555.2	9061.4	9128.4	2051.1	1040.1	1066.8	848.1	531.2
87.5°	426.3	517.8	1057.9	2115.8	4137.9	3800.9	734.3	495.5	607.1	504.4	252.2
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°	10099.2	10099.2	10099.2	10099.2	10099.2	10099.2	10099.2	10099.2	10099.2	10099.2	10099.2
2.5°	10114.8	10161.7	10259.9	10326.9	10398.3	10418.4	10427.3	10445.2	10463.0	10456.3	10458.5
5°	10177.3	10268.8	10427.3	10494.3	10525.5	10489.8	10420.6	10364.8	10324.6	10302.3	10295.6
7.5°	10280.0	10409.4	10579.1	10567.9	10496.5	10338.0	10159.5	10025.6	9914.0	9873.8	9851.5
10°	10416.1	10567.9	10686.2	10559.0	10351.4	10076.9	9809.1	9601.5	9434.1	9369.4	9358.2
12.5°	10590.2	10744.2	10766.5	10496.5	10152.8	9777.8	9414.0	9139.5	8889.5	8809.2	8791.3
15°	10815.6	10960.7	10822.3	10387.1	9907.3	9402.9	8931.9	8559.2	8295.9	8197.7	8162.0
17.5°	11052.2	11190.6	10833.5	10206.3	9585.9	8958.7	8367.3	7985.6	7684.3	7570.5	7557.1
20°	11335.7	11398.2	10786.6	9947.5	9144.0	8382.9	7760.2	7400.9	7240.2	7159.8	7150.9
22.5°	11686.1	11619.1	10679.5	9597.0	8583.8	7717.8	7211.2	7043.8	7003.6	6985.8	6992.5
25°	12056.6	11851.2	10521.0	9139.5	7876.3	7052.7	6809.4	6856.3	6909.9	6903.2	6903.2
27.5°	12465.0	12087.8	10277.8	8532.4	7092.9	6508.1	6537.2	6709.0	6789.4	6787.1	6784.9
30°	12989.5	12355.6	9967.5	7802.6	6360.8	6124.3	6300.6	6510.4	6619.7	6615.3	6617.5
32.5°	13634.5	12650.2	9545.7	6988.0	5831.9	5840.8	6043.9	6251.5	6378.7	6367.5	6369.8
35°	14388.9	12980.6	8974.4	6184.5	5481.5	5615.4	5776.1	5921.2	6041.7	6026.1	6010.4
37.5°	15210.2	13304.2	8215.5	5465.9	5195.8	5405.6	5539.5	5564.1	5619.9	5579.7	5550.7
40°	15991.4	13551.9	7238.0	4876.6	4907.9	5227.0	5314.1	5215.9	5115.4	5102.1	5061.9
42.5°	16672.1	13634.5	6249.2	4405.7	4604.4	5039.6	5093.1	4887.8	4707.0	4622.2	4586.5
45°	17390.7	13663.5	5327.5	4010.7	4312.0	4872.2	4930.2	4655.7	4401.3	4218.2	4158.0
47.5°	18330.4	13873.3	4611.0	3718.3	4088.8	4760.6	4843.2	4470.4	4140.1	3879.0	3823.2
50°	19560.1	14288.4	4028.5	3495.1	3943.7	4686.9	4780.7	4289.7	3925.9	3611.2	3555.4
52.5°	20926.0	14670.1	3557.6	3314.3	3803.1	4557.5	4700.3	4160.2	3725.0	3363.4	3303.2
55°	21881.3	14377.7	3178.2	3126.9	3620.1	4372.2	4588.7	4050.8	3437.1	3122.4	3068.8
57.5°	22064.3	13377.8	2890.3	2932.7	3399.1	4140.1	4416.9	3807.6	3280.9	3017.5	2961.7
60°	21564.3	11985.1	2676.0	2754.1	3162.6	3847.7	4095.5	3635.7	3131.3	2905.9	2859.0
62.5°	20307.8	10559.0	2517.6	2593.4	2941.6	3550.9	3894.6	3454.9	2979.5	2778.7	2731.8
65°	17770.2	8865.0	2365.8	2450.6	2736.3	3294.2	3713.8	3287.5	2830.0	2676.0	2631.4
67.5°	13413.5	6639.8	2222.9	2298.8	2553.3	3071.1	3517.4	3122.4	2684.9	2586.7	2533.2
70°	7898.6	4158.0	2060.0	2140.4	2361.3	2838.9	3307.6	2941.6	2504.2	2459.5	2390.3
72.5°	3675.9	2501.9	1874.8	1952.9	2120.3	2528.7	3037.6	2705.0	2289.9	2191.7	2098.0
75°	2193.9	1830.1	1656.0	1725.2	1843.5	2198.4	2698.3	2464.0	2086.8	1957.4	1859.1
77.5°	1640.4	1399.4	1415.0	1488.7	1584.6	1923.9	2390.3	2274.3	1930.6	1830.1	1763.2
80°	1180.7	1062.4	1153.9	1234.2	1334.7	1749.8	2289.9	2102.4	1745.3	1611.4	1548.9
82.5°	787.9	763.3	868.2	950.8	1049.0	1531.1	2151.5	1841.3	1490.9	1321.3	1182.9
85°	435.2	459.8	584.8	620.5	705.3	1078.0	1763.2	1479.7	1122.6	903.9	863.7
87.5°	180.8	212.0	314.7	303.5	375.0	642.8	1160.6	892.7	714.2	533.4	415.1
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)