

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: P320084

Luminaire Tested: **GAN-SA0B-760-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0B-760-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53747 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 419
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



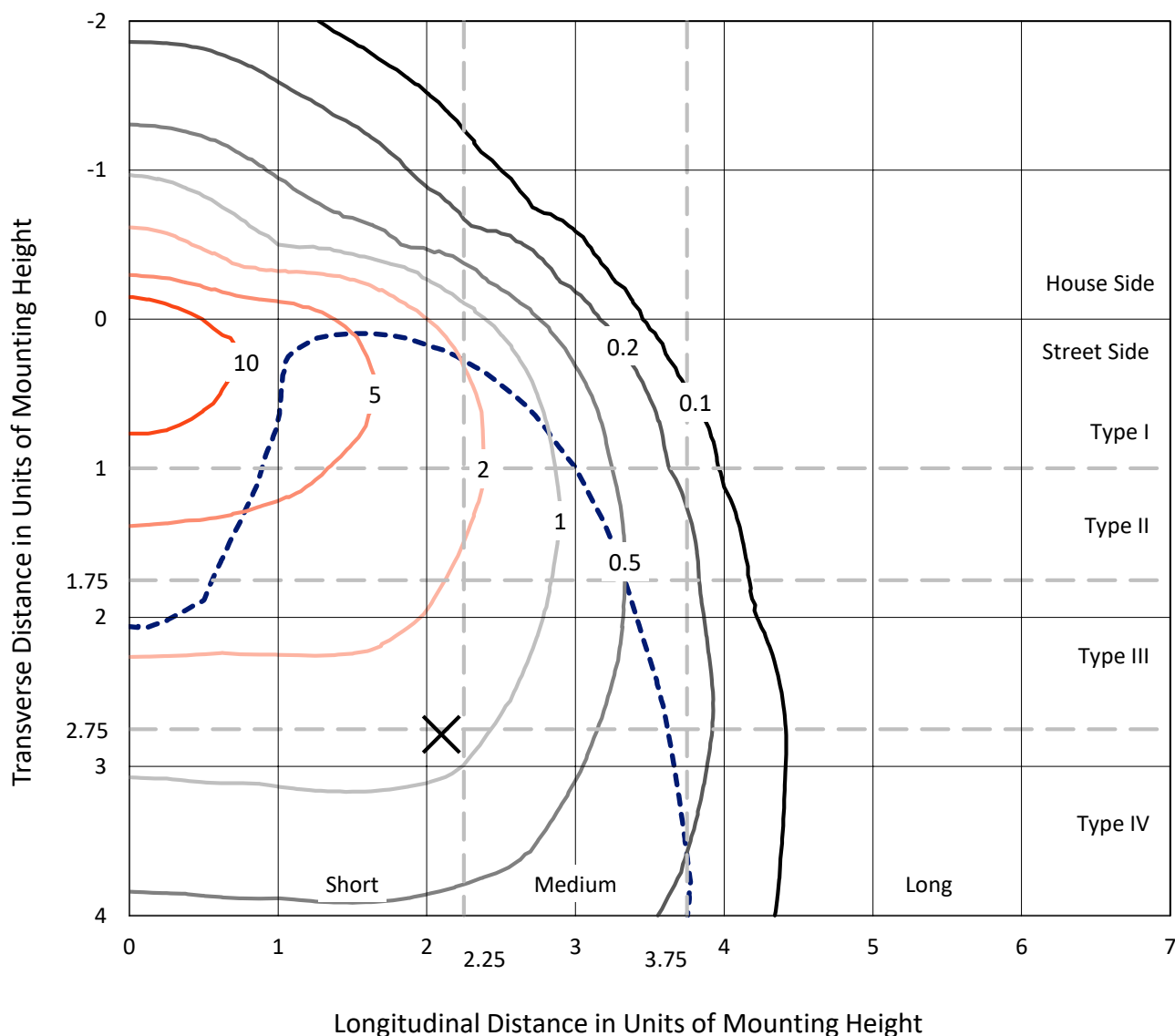
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

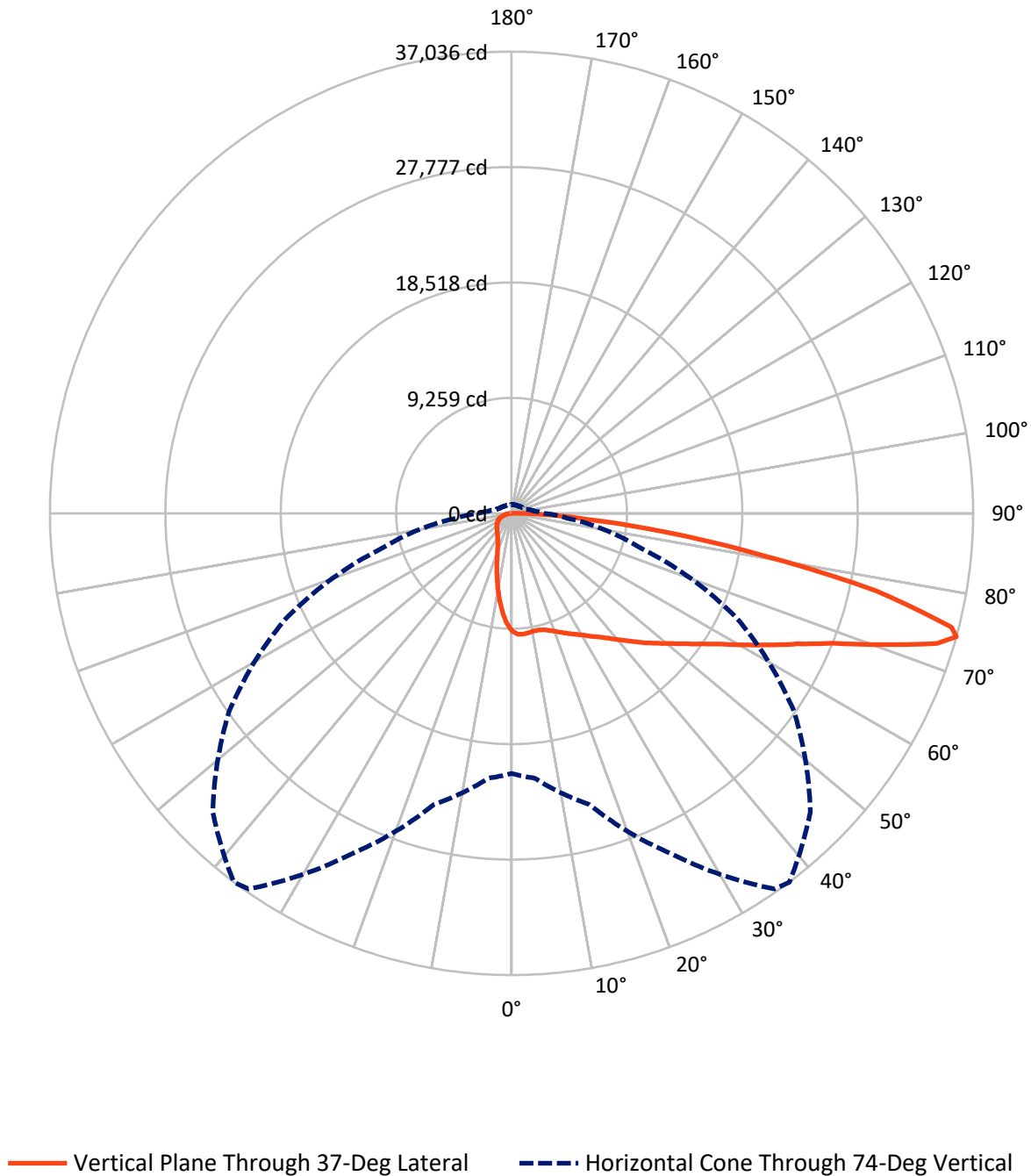


Based on 25 foot mounting height. Maximum calculated value = 15.4 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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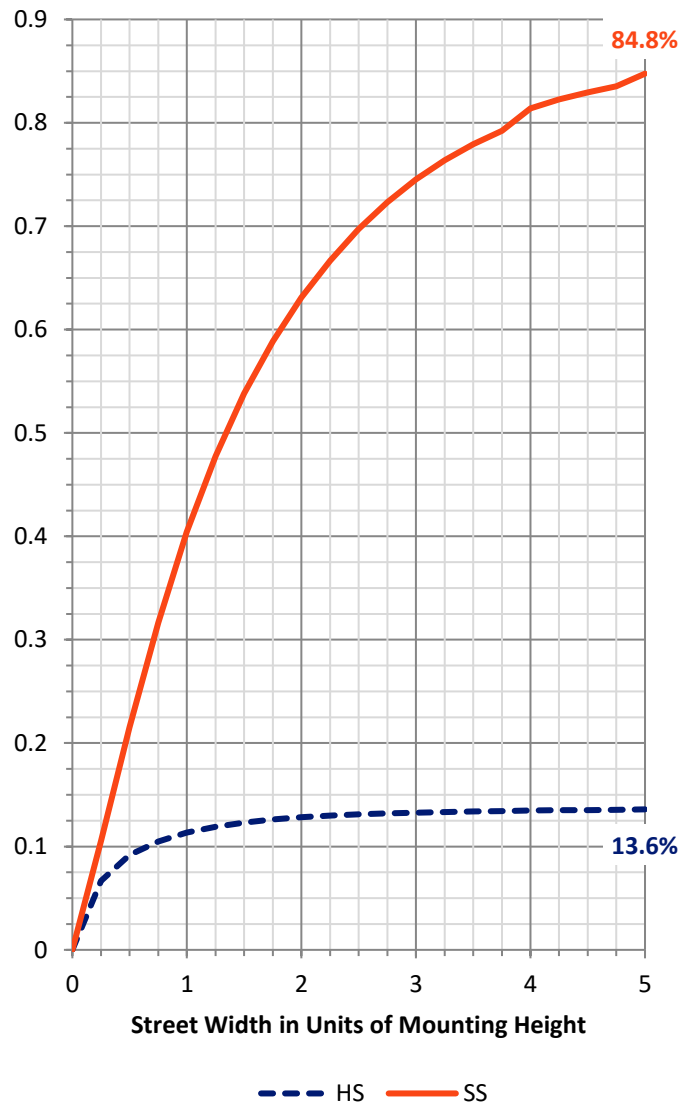
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7395.2	0.0	7395.2
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	46351.8	0.0	46351.8
	% Fixture	86.2	0.0	86.2
Total	Lumens	53747.0	0.0	53747.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	833.9	1.6
10°-20°	2137.6	4.0
20°-30°	3293.6	6.1
30°-40°	4789.4	8.9
40°-50°	7049.2	13.1
50°-60°	9899.4	18.4
60°-70°	12529.6	23.3
70°-80°	11032.8	20.5
80°-90°	2181.4	4.1
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°	53747.0	100.0
0°-180°	53747.0	100.0

Coefficient of Utilization



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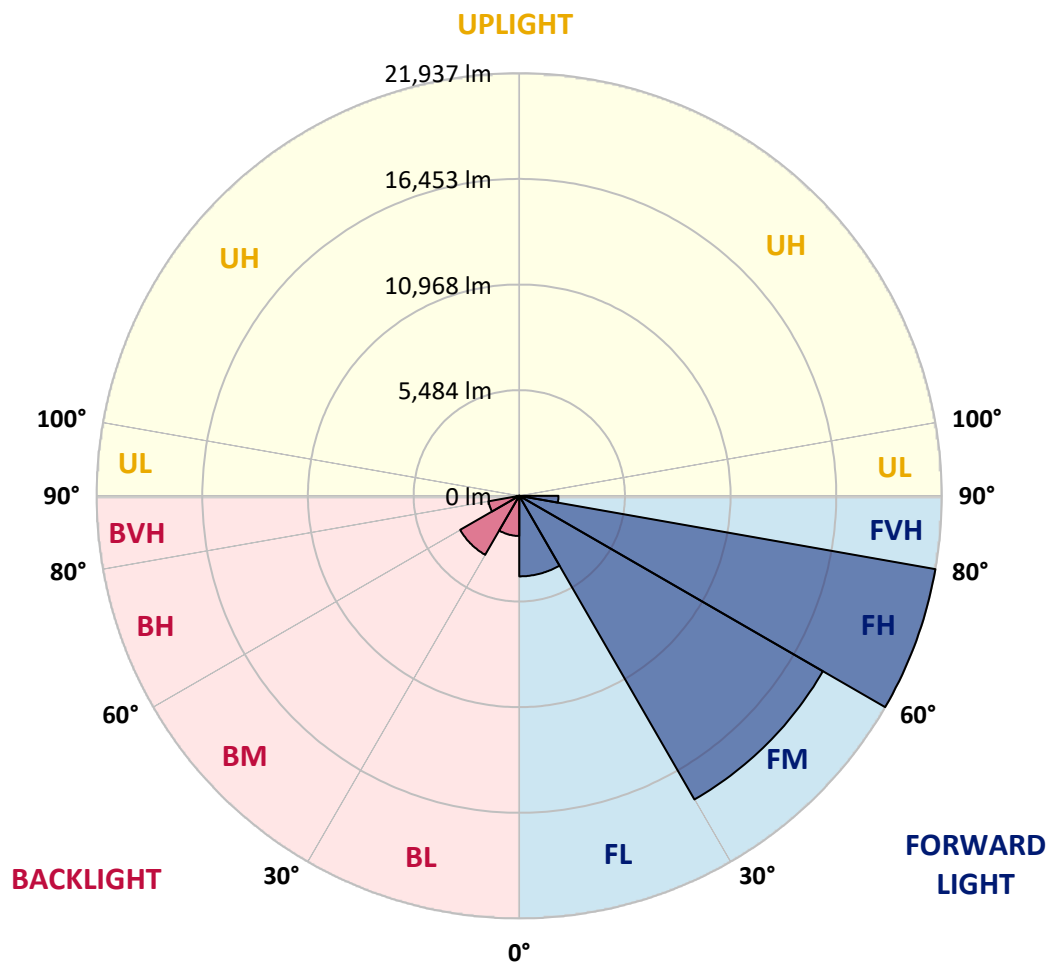
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4182.1	7.8			
FM	(30°-60°)	18199.2	33.9			
FH	(60°-80°)	21936.8	40.8			G5
FVH	(80°-90°)	2033.7	3.8			G5
BL	(0°-30°)	2083.1	3.9	B3/2500		
BM	(30°-60°)	3538.9	6.6	B3/5000		
BH	(60°-80°)	1625.5	3.0	B3/2500		G3/2500
BVH	(80°-90°)	147.7	0.3			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°	35°	37°	45°	55°	65°	75°	85°
0°	9470.0	9470.0	9470.0	9470.0	9470.0	9470.0	9470.0	9470.0	9470.0	9470.0	9470.0
2.5°	9793.8	9795.7	9793.8	9778.6	9742.6	9712.3	9687.7	9651.8	9572.2	9511.7	9420.8
5°	9886.5	9875.2	9867.6	9839.2	9782.4	9748.3	9701.0	9632.8	9502.2	9381.0	9233.4
7.5°	9843.0	9829.7	9812.7	9778.6	9714.2	9685.8	9619.6	9530.6	9373.5	9214.4	9002.4
10°	9708.6	9704.8	9697.2	9689.6	9634.7	9612.0	9551.4	9456.8	9301.5	9108.4	8860.4
12.5°	9559.0	9568.5	9598.8	9638.5	9613.9	9602.5	9564.7	9500.3	9341.3	9133.0	8833.9
15°	9464.3	9490.8	9572.2	9676.4	9697.2	9693.4	9683.9	9642.3	9473.8	9242.8	8894.5
17.5°	9432.1	9475.7	9630.9	9803.2	9863.8	9877.1	9880.8	9808.9	9621.5	9377.2	8956.9
20°	9490.8	9545.7	9772.9	10009.6	10106.1	10113.7	10096.7	9971.7	9761.6	9492.7	8991.0
22.5°	9668.8	9718.0	10002.0	10269.0	10378.8	10390.1	10339.0	10149.7	9909.2	9629.0	9038.4
25°	10011.5	10072.1	10356.1	10623.0	10679.8	10681.7	10607.9	10373.1	10102.4	9820.3	9140.6
27.5°	10458.3	10518.9	10774.5	11035.7	11005.4	10988.4	10888.1	10653.3	10354.2	10083.4	9322.3
30°	10956.2	11022.5	11264.8	11450.3	11378.4	11344.3	11262.9	10960.0	10704.4	10443.1	9600.6
32.5°	11471.2	11531.8	11743.8	11870.6	11779.8	11764.6	11641.6	11365.2	11160.7	10992.2	10051.2
35°	11999.4	12042.9	12251.2	12323.1	12202.0	12198.2	12164.1	11910.4	11781.7	11861.2	10706.3
37.5°	12539.0	12550.3	12728.3	12732.1	12696.1	12711.2	12747.2	12588.2	12624.2	12872.2	11558.3
40°	13019.8	13050.1	13178.9	13218.6	13281.1	13334.1	13514.0	13409.9	13688.2	14127.4	12618.5
42.5°	13375.8	13434.5	13640.8	13743.1	13945.6	14028.9	14282.6	14379.2	14939.6	15598.4	13879.4
45°	13676.8	13767.7	14099.0	14309.1	14651.8	14797.6	15161.1	15484.9	16353.9	17194.5	15206.5
47.5°	14002.4	14117.9	14532.6	14933.9	15399.7	15564.4	16225.1	16709.8	17862.8	18799.9	16458.0
50°	14481.4	14570.4	14975.6	15606.0	16187.2	16399.3	17313.7	18008.5	19396.3	20329.7	17542.8
52.5°	15149.7	15115.7	15458.3	16342.5	17122.5	17383.8	18476.2	19390.6	20950.7	21713.6	18459.1
55°	15821.9	15765.1	16005.5	17113.0	18213.0	18487.5	19756.0	20778.4	22429.3	22959.4	19161.5
57.5°	16569.7	16461.8	16664.3	17982.0	19455.0	19782.5	21189.2	22253.2	23883.3	23966.6	19608.3
60°	17340.2	17194.5	17421.6	19059.3	21032.1	21418.3	22866.6	23692.1	25254.0	24773.1	19752.2
62.5°	18014.2	17912.0	18262.2	20261.5	22809.8	23233.9	24513.7	25221.8	26605.8	25108.2	19233.5
65°	18603.0	18620.1	19225.9	21613.3	24792.0	25244.5	26403.2	27107.5	27669.8	24909.4	18019.9
67.5°	19305.4	19402.0	20435.7	23392.9	27287.3	27783.4	29152.2	29163.6	28264.3	23743.2	15630.6
70°	20329.7	20528.5	22099.9	25861.7	30835.3	31516.9	32573.3	30371.4	27429.3	20581.5	12298.5
72.5°	21238.4	21609.5	23870.0	28686.5	35159.5	35676.3	34574.4	29674.7	23940.1	15424.3	7662.0
74°	20869.2	21329.3	24191.9	30078.0	36787.6	37035.7	33898.6	27641.4	19960.5	10681.7	4452.9
75°	20074.1	20573.9	23722.4	30064.7	36581.3	36443.1	32266.6	25318.4	16439.0	7285.2	2962.9
77.5°	16200.5	16728.7	19988.9	25767.1	29994.7	29864.1	24786.4	16984.3	7200.0	2389.3	1505.1
80°	9418.9	9822.2	12408.3	16363.3	20225.5	20462.2	16300.8	8404.1	2832.3	1342.3	1020.5
82.5°	4184.1	4462.4	5994.0	8353.0	12205.8	12510.6	8536.6	4403.7	1749.4	816.0	613.4
85°	2745.2	2951.6	3638.8	3977.7	5812.3	6020.5	4178.4	3428.7	1154.9	448.7	450.6
87.5°	1974.7	2173.4	2703.6	2360.9	2667.6	2525.6	2273.8	3173.1	463.8	255.6	151.5
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°	9470.0	9470.0	9470.0	9470.0	9470.0	9470.0	9470.0	9470.0	9470.0	9470.0	9470.0
2.5°	9381.0	9350.7	9282.6	9153.8	9081.9	9021.3	8921.0	8862.3	8835.8	8833.9	8845.2
5°	9148.2	9078.1	8902.0	8686.2	8513.9	8356.8	8161.8	8044.4	7961.1	7911.9	7925.1
7.5°	8877.4	8767.6	8491.2	8146.6	7870.2	7565.4	7264.4	7084.5	6944.4	6840.3	6859.2
10°	8691.9	8540.4	8137.2	7641.1	7181.1	6738.1	6323.4	6075.4	5878.5	5727.1	5738.4
12.5°	8629.4	8424.9	7866.4	7203.8	6558.2	5952.4	5410.9	5030.4	4827.8	4655.5	4668.7
15°	8638.9	8364.4	7639.2	6810.0	5997.8	5234.8	4577.9	4133.0	3858.4	3739.2	3741.1
17.5°	8646.5	8294.3	7400.7	6387.8	5443.1	4564.6	3850.9	3400.3	3140.9	3031.1	3033.0
20°	8621.8	8180.7	7105.3	5903.1	4863.7	3949.3	3258.3	2875.8	2678.9	2593.7	2593.7
22.5°	8589.7	8046.3	6772.1	5416.6	4292.0	3415.4	2834.2	2542.6	2429.0	2372.2	2370.3
25°	8604.8	7946.0	6431.4	4916.8	3765.7	2989.4	2552.1	2359.0	2283.3	2247.3	2245.4
27.5°	8686.2	7898.6	6117.1	4418.8	3305.6	2669.5	2362.8	2226.5	2177.2	2154.5	2154.5
30°	8833.9	7898.6	5789.5	3994.7	2923.2	2432.8	2217.0	2124.2	2090.1	2075.0	2075.0
32.5°	9091.4	7942.2	5473.4	3574.4	2618.4	2247.3	2095.8	2033.3	2006.8	1999.3	1999.3
35°	9534.4	8089.8	5164.8	3176.9	2372.2	2095.8	1980.3	1944.4	1925.4	1923.5	1929.2
37.5°	10157.3	8390.9	4875.1	2883.4	2198.1	1972.8	1883.8	1855.4	1844.0	1853.5	1861.1
40°	10941.1	8799.8	4611.9	2618.4	2065.5	1874.3	1794.8	1775.9	1770.2	1783.4	1794.8
42.5°	11887.7	9352.6	4396.1	2427.1	1963.3	1791.0	1719.1	1696.3	1690.7	1705.8	1721.0
45°	12911.9	9947.1	4244.7	2285.1	1883.8	1728.5	1652.8	1628.2	1616.8	1624.4	1641.4
47.5°	13843.4	10509.4	4184.1	2184.8	1808.0	1675.5	1594.1	1563.8	1544.9	1541.1	1554.4
50°	14629.1	10927.8	4212.5	2124.2	1747.5	1616.8	1537.3	1503.2	1474.8	1457.8	1467.3
52.5°	15200.9	11191.0	4239.0	2097.7	1700.1	1552.5	1474.8	1442.7	1404.8	1376.4	1376.4
55°	15615.5	11251.6	4180.3	2076.9	1664.2	1482.4	1404.8	1374.5	1336.6	1304.4	1300.7
57.5°	15778.3	11081.2	3962.6	2046.6	1639.6	1416.1	1331.0	1308.2	1276.0	1238.2	1236.3
60°	15558.7	10554.8	3542.3	1982.2	1607.4	1361.2	1257.1	1242.0	1226.8	1190.9	1189.0
62.5°	14676.4	9400.0	2998.9	1851.6	1543.0	1302.6	1189.0	1196.5	1198.4	1173.8	1170.0
65°	13076.6	7813.4	2468.8	1681.2	1446.4	1232.5	1118.9	1154.9	1175.7	1171.9	1166.2
67.5°	10751.7	6081.1	2092.0	1501.3	1319.6	1135.9	1043.2	1084.8	1101.9	1115.1	1111.3
70°	7980.0	4288.2	1730.4	1312.0	1166.2	1022.4	944.7	965.6	954.2	969.3	975.0
72.5°	4449.1	2572.9	1410.5	1122.7	1007.2	889.8	834.9	831.1	806.5	806.5	806.5
74°	2669.5	1887.6	1240.1	1005.3	910.7	802.7	755.4	738.4	715.6	717.5	715.6
75°	2146.9	1622.5	1137.8	927.7	842.5	751.6	704.3	681.6	664.5	664.5	662.6
77.5°	1355.6	1232.5	916.3	738.4	674.0	619.1	586.9	556.6	556.6	554.7	552.8
80°	1024.2	980.7	713.8	558.5	516.9	475.2	454.4	441.1	441.1	446.8	444.9
82.5°	702.4	738.4	501.7	390.0	369.2	338.9	335.1	337.0	331.3	323.7	321.9
85°	513.1	554.7	338.9	246.1	225.3	206.4	221.5	229.1	219.6	202.6	195.0
87.5°	196.9	363.5	181.8	102.2	94.7	81.4	94.7	98.4	106.0	83.3	85.2
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)