

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: P319934

Luminaire Tested: **GAN-SA0C-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319934
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-SA0C-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1050mA 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: 55634 lumens
Efficiency: N/A
Efficacy: 99.7 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): 558
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



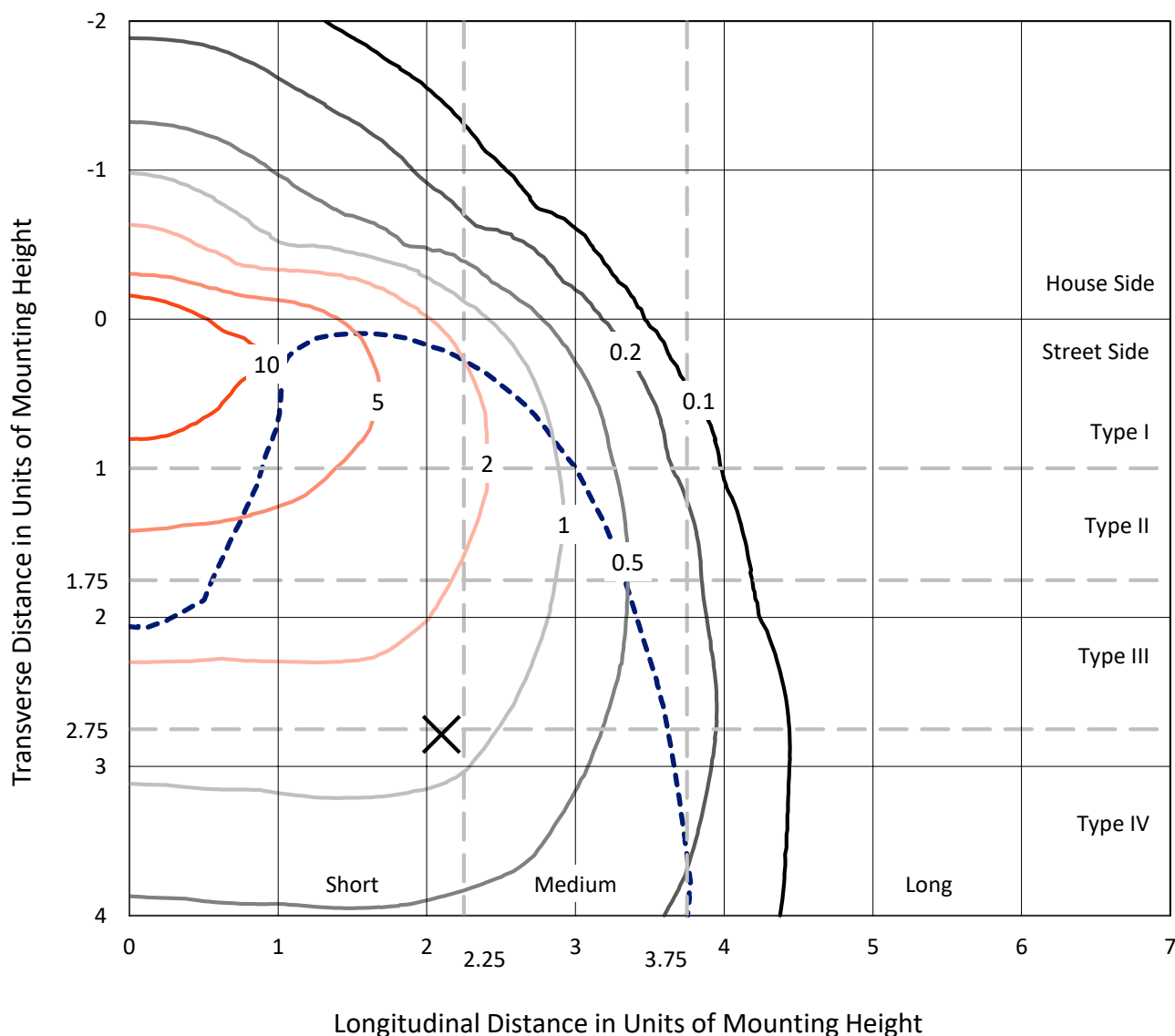
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

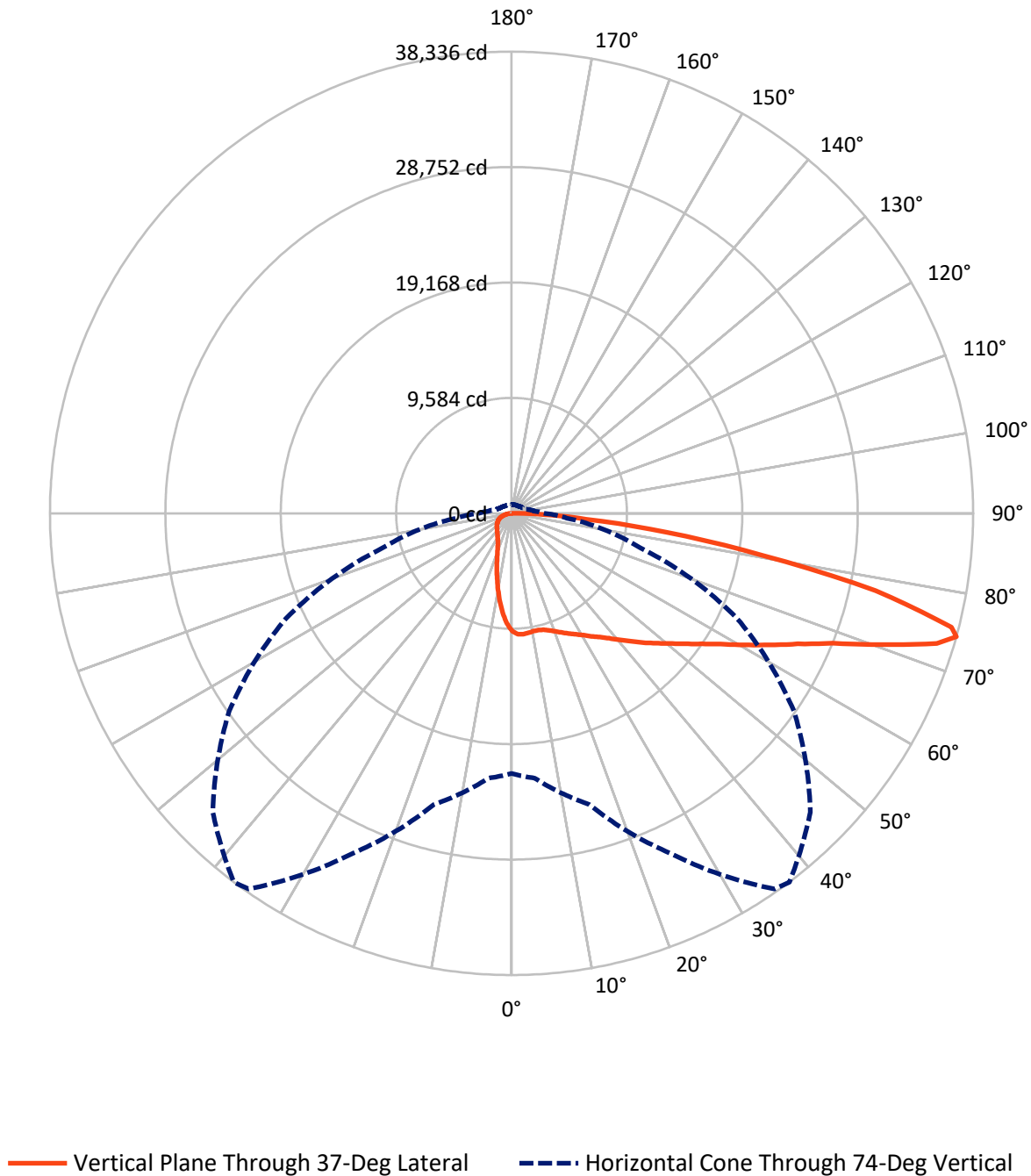


Based on 25 foot mounting height. Maximum calculated value = 15.9 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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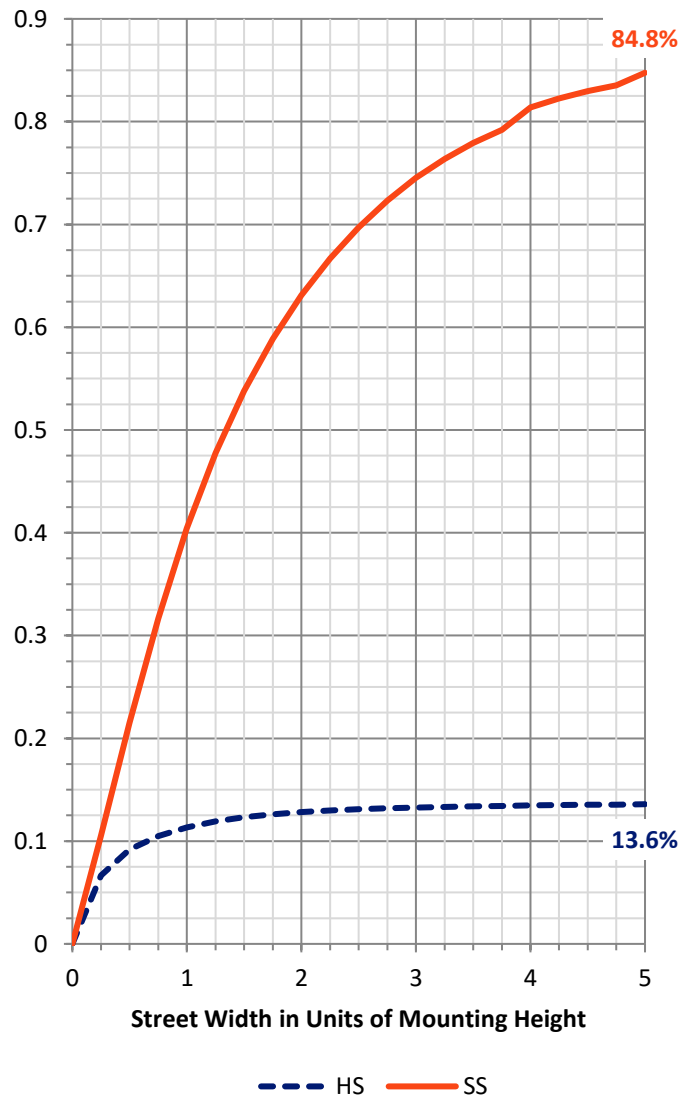
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7654.9	0.0	7654.9
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	47979.2	0.0	47979.2
	% Fixture	86.2	0.0	86.2
Total	Lumens	55634.0	0.0	55634.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	863.2	1.6
10°-20°	2212.7	4.0
20°-30°	3409.3	6.1
30°-40°	4957.6	8.9
40°-50°	7296.7	13.1
50°-60°	10246.9	18.4
60°-70°	12969.5	23.3
70°-80°	11420.1	20.5
80°-90°	2258.0	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°	55634.0	100.0
0°-180°	55634.0	100.0

Coefficient of Utilization



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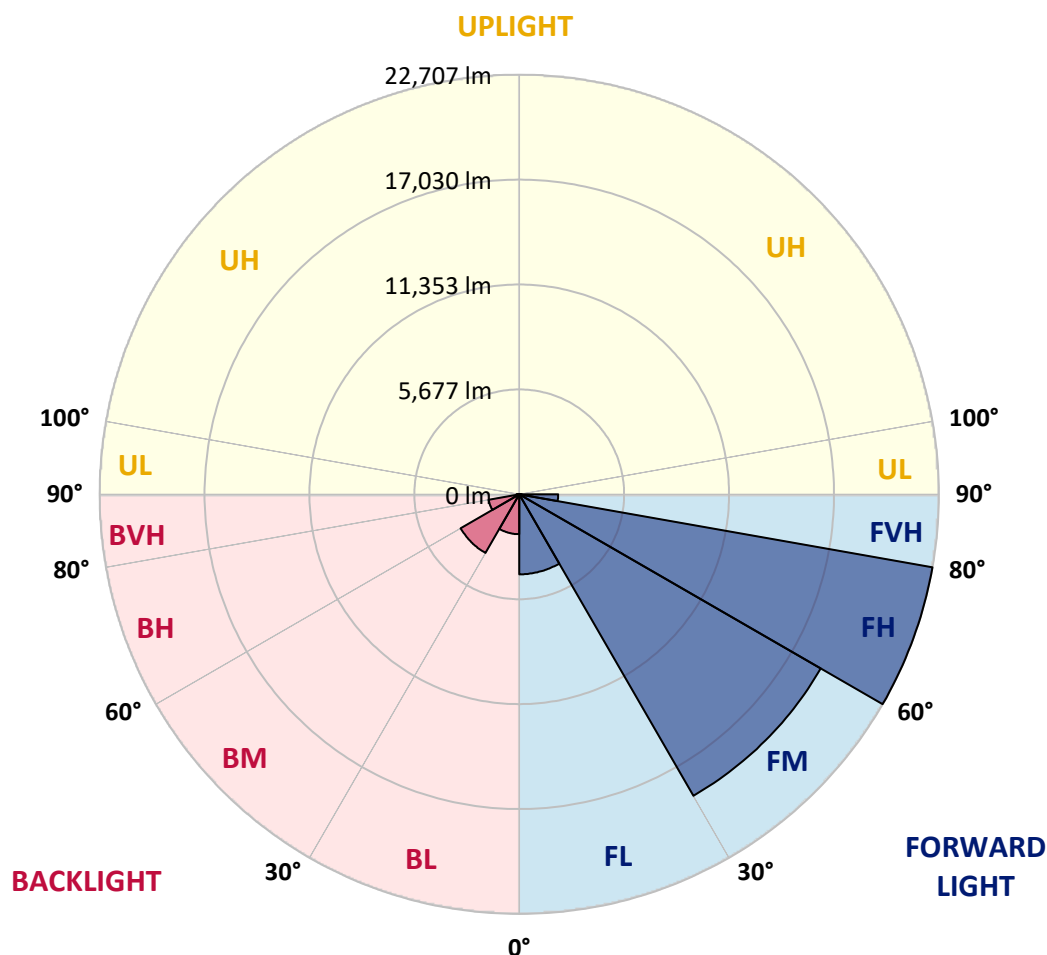
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4329.0	7.8			
FM	(30°-60°)	18838.1	33.9			
FH	(60°-80°)	22707.0	40.8			G5
FVH	(80°-90°)	2105.1	3.8			G5
BL	(0°-30°)	2156.2	3.9	B3/2500		
BM	(30°-60°)	3663.1	6.6	B3/5000		
BH	(60°-80°)	1682.6	3.0	B3/2500		G3/2500
BVH	(80°-90°)	152.9	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°	9802.5	9802.5	9802.5	9802.5	9802.5	9802.5	9802.5	9802.5	9802.5	9802.5	9802.5
2.5°	10137.6	10139.6	10137.6	10121.9	10084.7	10053.3	10027.9	9990.6	9908.3	9845.6	9751.5
5°	10233.6	10221.9	10214.0	10184.6	10125.8	10090.6	10041.6	9971.0	9835.8	9710.4	9557.5
7.5°	10188.6	10174.8	10157.2	10121.9	10055.3	10025.9	9957.3	9865.2	9702.5	9537.9	9318.4
10°	10049.4	10045.5	10037.7	10029.8	9973.0	9949.5	9886.8	9788.8	9628.1	9428.2	9171.5
12.5°	9894.6	9904.4	9935.8	9976.9	9951.4	9939.7	9900.5	9833.9	9669.2	9453.7	9144.0
15°	9796.6	9824.1	9908.3	10016.1	10037.7	10033.7	10023.9	9980.8	9806.4	9567.3	9206.7
17.5°	9763.3	9808.4	9969.1	10147.4	10210.1	10223.8	10227.8	10153.3	9959.3	9706.5	9271.4
20°	9824.1	9880.9	10116.0	10361.0	10461.0	10468.8	10451.2	10321.8	10104.3	9826.0	9306.7
22.5°	10008.3	10059.2	10353.2	10629.5	10743.2	10754.9	10702.0	10506.0	10257.1	9967.1	9355.7
25°	10363.0	10425.7	10719.6	10996.0	11054.8	11056.7	10980.3	10737.3	10457.0	10165.0	9461.5
27.5°	10825.5	10888.2	11152.7	11423.2	11391.8	11374.2	11270.3	11027.3	10717.7	10437.4	9649.6
30°	11340.9	11409.5	11660.3	11852.4	11777.9	11742.6	11658.3	11344.8	11080.2	10809.8	9937.7
32.5°	11873.9	11936.6	12156.1	12287.4	12193.3	12177.7	12050.3	11764.2	11552.5	11378.1	10404.1
35°	12420.7	12465.7	12681.3	12755.8	12630.4	12626.4	12591.2	12328.6	12195.3	12277.6	11082.2
37.5°	12979.2	12991.0	13175.2	13179.1	13141.8	13157.5	13194.8	13030.1	13067.4	13324.1	11964.1
40°	13477.0	13508.3	13641.6	13682.7	13747.4	13802.3	13988.4	13880.7	14168.7	14623.4	13061.5
42.5°	13845.4	13906.1	14119.7	14225.6	14435.3	14521.5	14784.1	14884.0	15464.1	16146.1	14366.7
45°	14157.0	14251.0	14594.0	14811.5	15166.2	15317.1	15693.4	16028.5	16928.0	17798.1	15740.4
47.5°	14494.1	14613.6	15042.8	15458.2	15940.3	16110.8	16794.8	17296.4	18489.9	19460.0	17035.8
50°	14989.9	15082.0	15501.3	16153.9	16755.6	16975.1	17921.6	18640.8	20077.3	21043.4	18158.7
52.5°	15681.6	15646.4	16001.1	16916.3	17723.7	17994.1	19124.9	20071.4	21686.2	22476.0	19107.2
55°	16377.3	16318.5	16567.4	17713.9	18852.5	19136.6	20449.6	21507.9	23216.7	23765.5	19834.3
57.5°	17151.4	17039.7	17249.4	18613.4	20138.0	20477.1	21933.1	23034.5	24721.8	24808.0	20296.8
60°	17949.0	17798.1	18033.3	19728.5	21770.5	22170.3	23669.4	24523.9	26140.6	25642.9	20445.7
62.5°	18646.7	18540.9	18903.4	20972.9	23610.6	24049.6	25374.4	26107.3	27539.9	25989.7	19908.7
65°	19256.2	19273.8	19900.9	22372.1	25662.5	26130.8	27330.2	28059.2	28641.2	25784.0	18652.6
67.5°	19983.2	20083.2	21153.2	24214.2	28245.4	28758.8	30175.7	30187.5	29256.6	24576.8	16179.4
70°	21043.4	21249.2	22875.8	26769.7	31917.9	32623.4	33716.9	31437.8	28392.4	21304.1	12730.3
72.5°	21984.1	22368.2	24708.1	29693.6	36393.9	36928.9	35788.3	30716.6	24780.6	15965.8	7931.0
74°	21601.9	22078.2	25041.2	31134.0	38079.2	38335.9	35088.7	28611.8	20661.3	11056.7	4609.3
75°	20778.9	21296.2	24555.2	31120.3	37865.6	37722.6	33399.4	26207.3	17016.2	7541.0	3067.0
77.5°	16769.3	17316.0	20690.7	26671.7	31047.8	30912.5	25656.6	17580.6	7452.8	2473.2	1558.0
80°	9749.6	10167.0	12844.0	16937.8	20935.6	21180.6	16873.1	8699.2	2931.7	1389.4	1056.3
82.5°	4331.0	4619.0	6204.5	8646.3	12634.3	12949.8	8836.4	4558.3	1810.8	844.6	634.9
85°	2841.6	3055.2	3766.6	4117.4	6016.3	6231.9	4325.1	3549.0	1195.4	464.5	466.4
87.5°	2044.0	2249.8	2798.5	2443.8	2761.2	2614.3	2353.6	3284.5	480.1	264.6	156.8
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°	9802.5	9802.5	9802.5	9802.5	9802.5	9802.5	9802.5	9802.5	9802.5	9802.5	9802.5
2.5°	9710.4	9679.0	9608.5	9475.2	9400.8	9338.0	9234.2	9173.4	9146.0	9144.0	9155.8
5°	9469.3	9396.8	9214.6	8991.2	8812.8	8650.2	8448.3	8326.8	8240.6	8189.6	8203.4
7.5°	9189.1	9075.4	8789.3	8432.7	8146.5	7831.0	7519.4	7333.3	7188.2	7080.5	7100.0
10°	8997.1	8840.3	8422.9	7909.4	7433.2	6974.6	6545.4	6288.7	6084.9	5928.1	5939.9
12.5°	8932.4	8720.7	8142.6	7456.7	6788.5	6161.3	5600.9	5207.0	4997.3	4818.9	4832.7
15°	8942.2	8658.0	7907.5	7049.1	6208.4	5418.6	4738.6	4278.1	3993.9	3870.4	3872.4
17.5°	8950.0	8585.5	7660.5	6612.1	5634.2	4724.9	3986.1	3519.6	3251.2	3137.5	3139.5
20°	8924.5	8467.9	7354.8	6110.4	5034.5	4088.0	3372.7	2976.8	2773.0	2684.8	2684.8
22.5°	8891.2	8328.8	7009.9	5606.7	4442.7	3535.3	2933.7	2631.9	2514.3	2455.5	2453.6
25°	8906.9	8224.9	6657.2	5089.4	3897.9	3094.4	2641.7	2441.8	2363.4	2326.2	2324.2
27.5°	8991.2	8175.9	6331.8	4574.0	3421.7	2763.2	2445.7	2304.6	2253.7	2230.2	2230.2
30°	9144.0	8175.9	5992.8	4135.0	3025.8	2518.2	2294.8	2198.8	2163.5	2147.8	2147.8
32.5°	9410.6	8221.0	5665.5	3699.9	2710.3	2326.2	2169.4	2104.7	2077.3	2069.5	2069.5
35°	9869.1	8373.9	5346.1	3288.4	2455.5	2169.4	2049.9	2012.6	1993.0	1991.1	1996.9
37.5°	10513.9	8685.5	5046.3	2984.6	2275.2	2042.0	1949.9	1920.5	1908.8	1918.6	1926.4
40°	11325.2	9108.8	4773.9	2710.3	2138.0	1940.1	1857.8	1838.2	1832.3	1846.1	1857.8
42.5°	12305.1	9681.0	4550.5	2512.4	2032.2	1853.9	1779.4	1755.9	1750.0	1765.7	1781.4
45°	13365.3	10296.3	4393.7	2365.4	1949.9	1789.2	1710.8	1685.4	1673.6	1681.4	1699.1
47.5°	14329.4	10878.4	4331.0	2261.5	1871.5	1734.3	1650.1	1618.7	1599.1	1595.2	1608.9
50°	15142.7	11311.5	4360.4	2198.8	1808.8	1673.6	1591.3	1556.0	1526.6	1509.0	1518.8
52.5°	15734.6	11583.9	4387.8	2171.4	1759.8	1607.0	1526.6	1493.3	1454.1	1424.7	1424.7
55°	16163.7	11646.6	4327.1	2149.8	1722.6	1534.5	1454.1	1422.8	1383.6	1350.2	1346.3
57.5°	16332.3	11470.2	4101.7	2118.5	1697.1	1465.9	1377.7	1354.2	1320.8	1281.7	1279.7
60°	16104.9	10925.4	3666.6	2051.8	1663.8	1409.0	1301.3	1285.6	1269.9	1232.7	1230.7
62.5°	15191.7	9730.0	3104.2	1916.6	1597.2	1348.3	1230.7	1238.5	1240.5	1215.0	1211.1
65°	13535.8	8087.7	2555.5	1740.2	1497.2	1275.8	1158.2	1195.4	1217.0	1213.1	1207.2
67.5°	11129.2	6294.6	2165.5	1554.1	1365.9	1175.8	1079.8	1122.9	1140.6	1154.3	1150.4
70°	8260.2	4438.8	1791.2	1358.1	1207.2	1058.2	977.9	999.5	987.7	1003.4	1009.3
72.5°	4605.3	2663.3	1460.0	1162.1	1042.6	921.1	864.2	860.3	834.8	834.8	834.8
74°	2763.2	1953.8	1283.6	1040.6	942.6	830.9	781.9	764.3	740.8	742.7	740.8
75°	2222.3	1679.5	1177.8	960.3	872.1	778.0	729.0	705.5	687.9	687.9	685.9
77.5°	1403.2	1275.8	948.5	764.3	697.7	640.8	607.5	576.2	576.2	574.2	572.2
80°	1060.2	1015.1	738.8	578.1	535.0	491.9	470.3	456.6	456.6	462.5	460.5
82.5°	727.1	764.3	519.3	403.7	382.1	350.8	346.9	348.8	343.0	335.1	333.2
85°	531.1	574.2	350.8	254.8	233.2	213.6	229.3	237.1	227.3	209.7	201.9
87.5°	203.8	376.3	188.1	105.8	98.0	84.3	98.0	101.9	109.7	86.2	88.2
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)