

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: P319933

Luminaire Tested: **GAN-SA9C-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319933
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-SA9C-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 50250 lumens
Efficiency: N/A
Efficacy: 100.3 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): 501
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

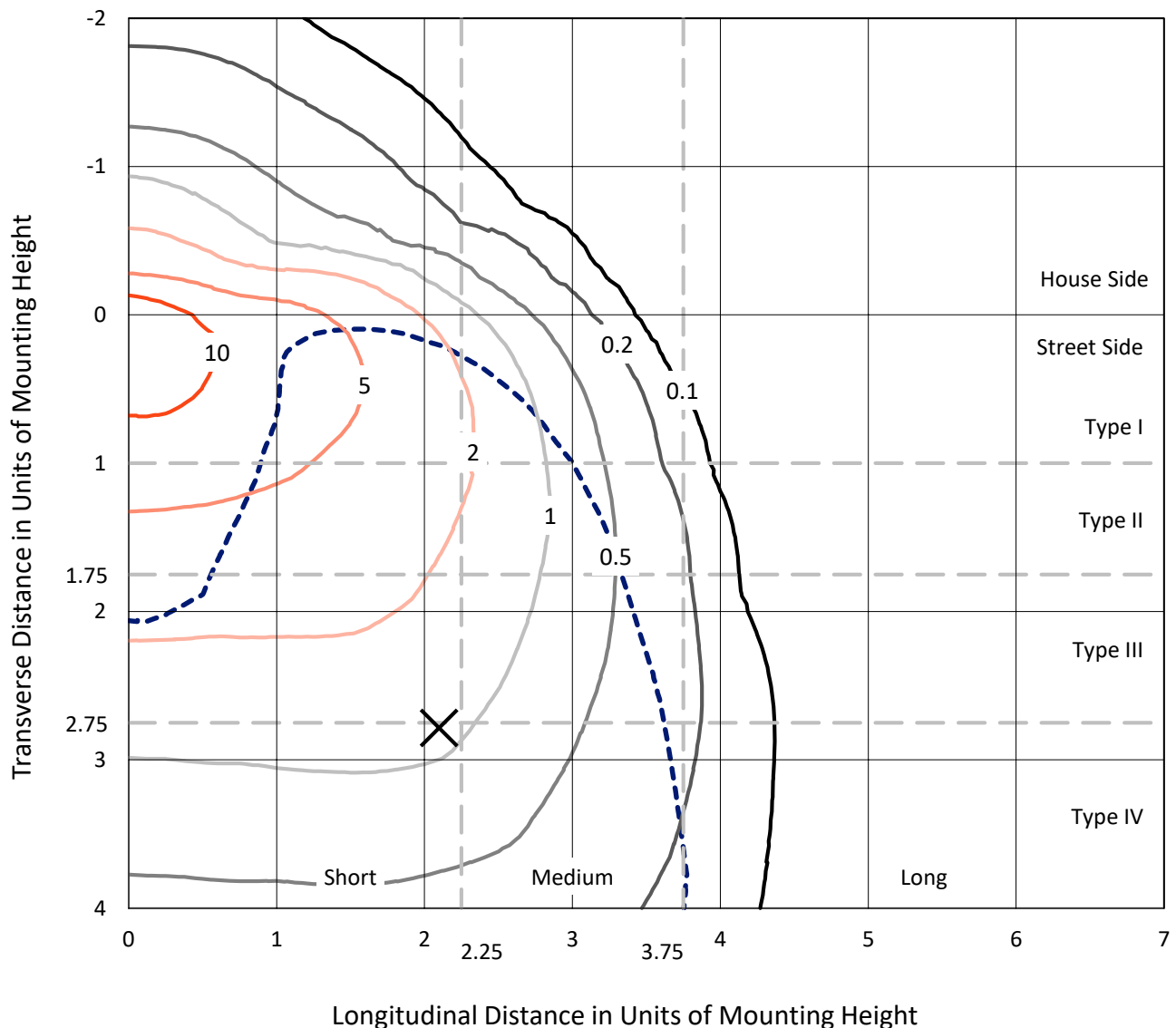


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Iso-Footcandle Lines of Horizontal Illumination

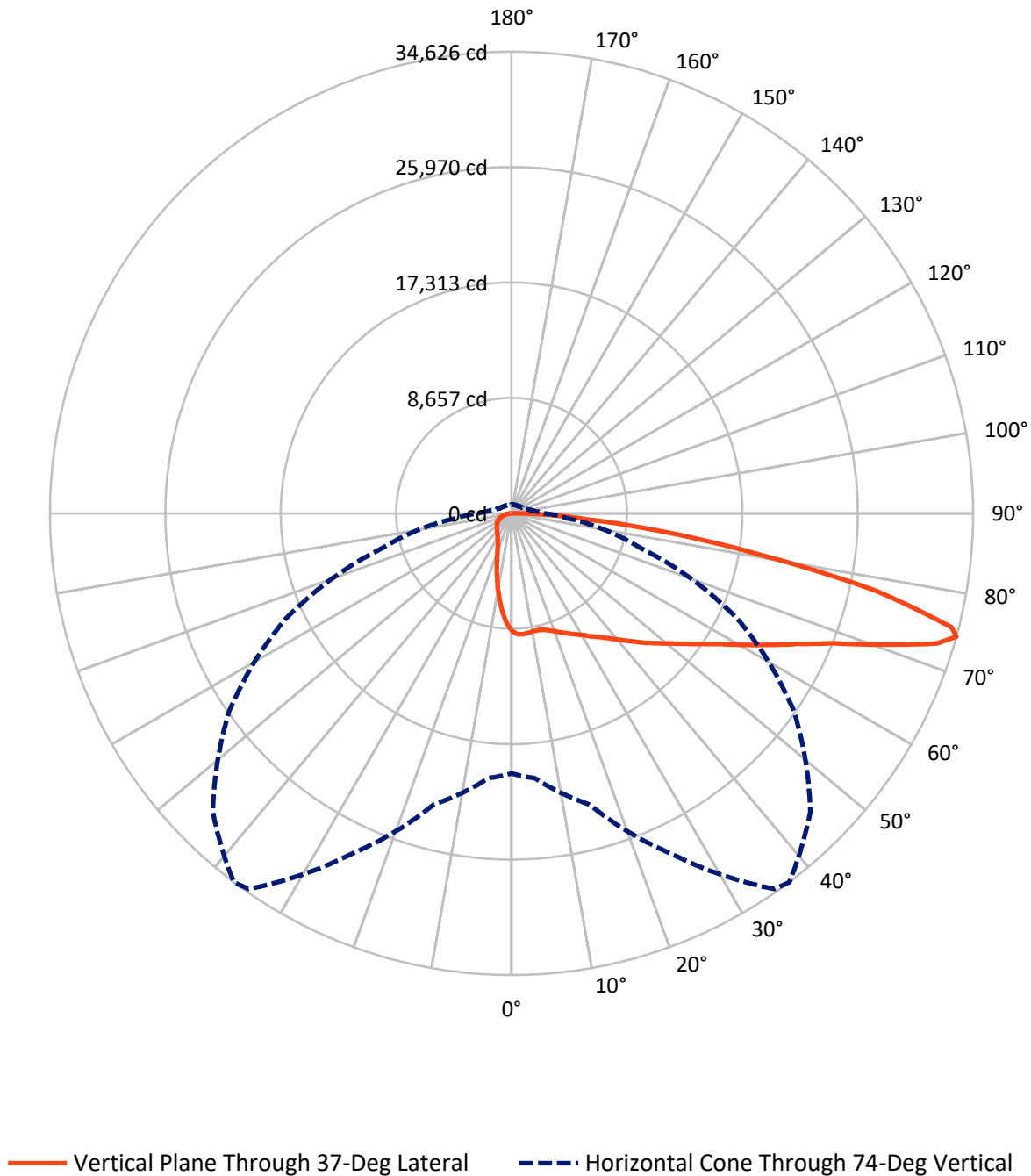
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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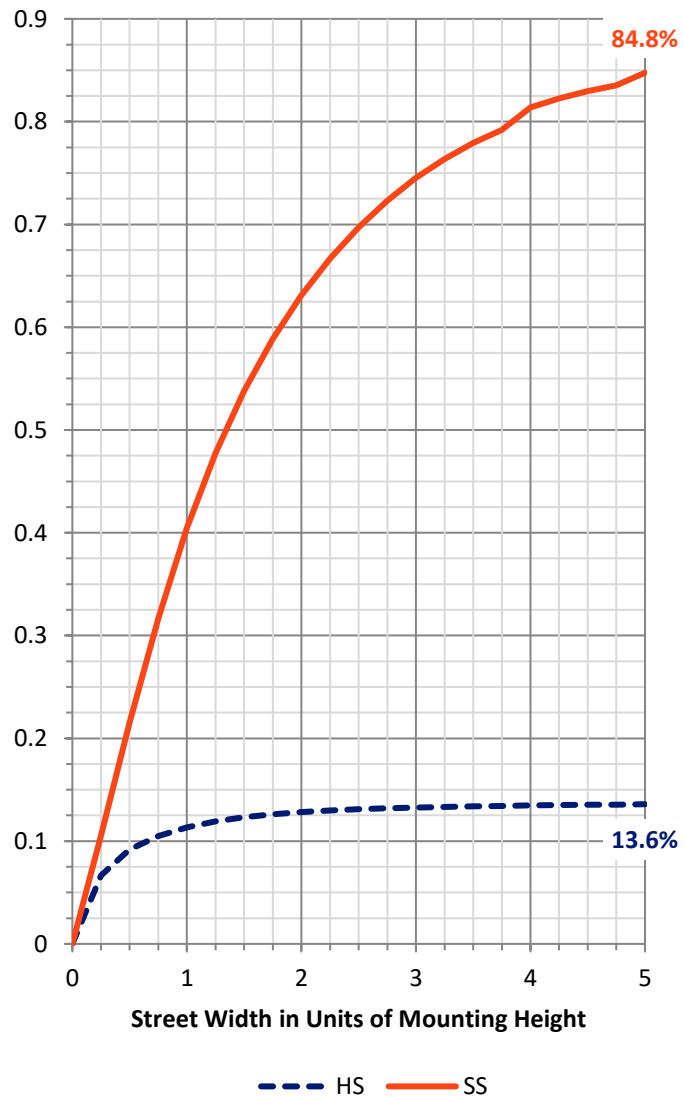
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6914.0	0.0	6914.0
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	43335.9	0.0	43335.9
	% Fixture	86.2	0.0	86.2
Total	Lumens	50250.0	0.0	50250.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	779.7	1.6
10°-20°	1998.5	4.0
20°-30°	3079.3	6.1
30°-40°	4477.8	8.9
40°-50°	6590.6	13.1
50°-60°	9255.3	18.4
60°-70°	11714.4	23.3
70°-80°	10314.9	20.5
80°-90°	2039.5	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°	50250.0	100.0
0°-180°	50250.0	100.0

Coefficient of Utilization



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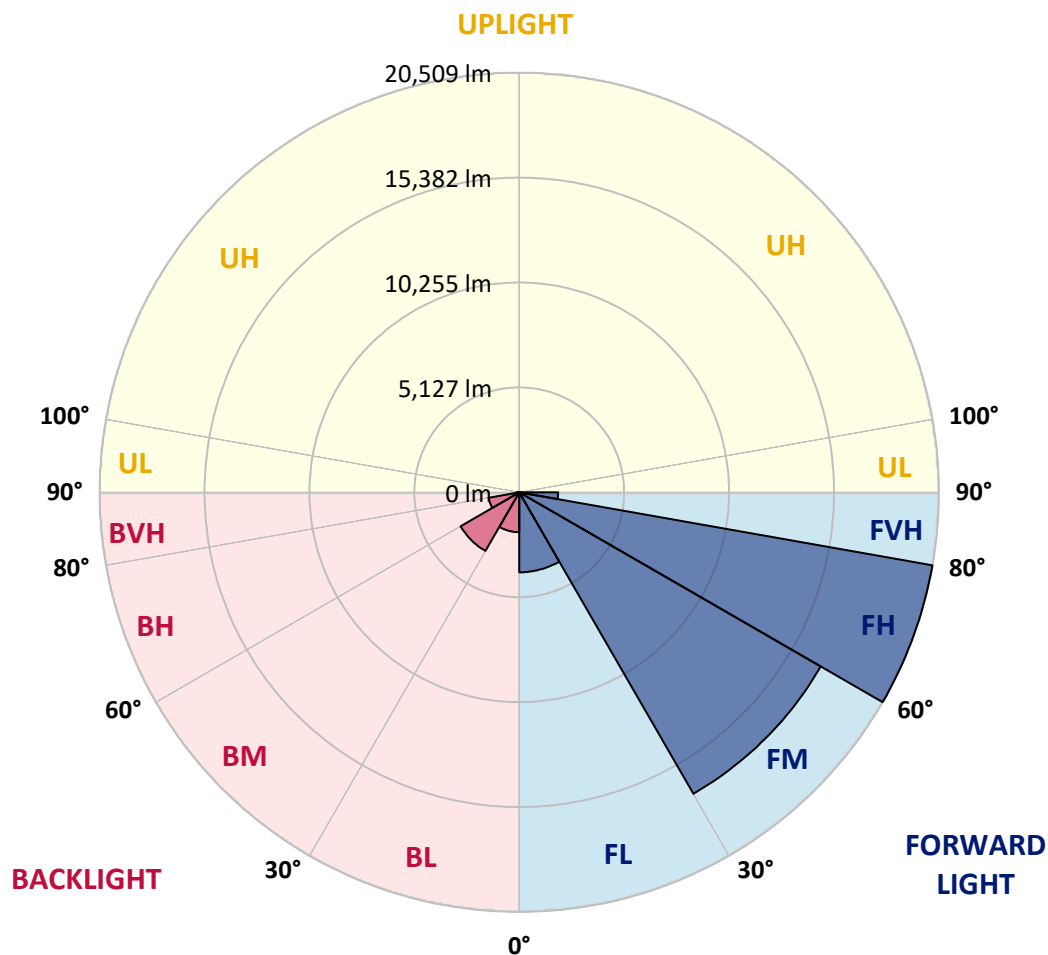
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3910.0	7.8			
FM	(30°-60°)	17015.0	33.9			
FH	(60°-80°)	20509.5	40.8			G5
FVH	(80°-90°)	1901.4	3.8			G5
BL	(0°-30°)	1947.5	3.9	B3/2500		
BM	(30°-60°)	3308.6	6.6	B3/5000		
BH	(60°-80°)	1519.8	3.0	B3/2500		G3/2500
BVH	(80°-90°)	138.1	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°	8853.9	8853.9	8853.9	8853.9	8853.9	8853.9	8853.9	8853.9	8853.9	8853.9	8853.9
2.5°	9156.5	9158.3	9156.5	9142.4	9108.7	9080.4	9057.4	9023.8	8949.4	8892.8	8807.8
5°	9243.3	9232.6	9225.6	9199.0	9145.9	9114.1	9069.8	9006.1	8883.9	8770.7	8632.6
7.5°	9202.6	9190.2	9174.2	9142.4	9082.2	9055.6	8993.7	8910.5	8763.6	8614.9	8416.6
10°	9076.9	9073.3	9066.3	9059.2	9007.9	8986.6	8930.0	8841.5	8696.3	8515.8	8283.9
12.5°	8937.0	8945.9	8974.2	9011.4	8988.4	8977.8	8942.4	8882.2	8733.5	8538.8	8259.1
15°	8848.5	8873.3	8949.4	9046.8	9066.3	9062.7	9053.9	9014.9	8857.4	8641.4	8315.8
17.5°	8818.5	8859.2	9004.3	9165.4	9222.0	9234.4	9238.0	9170.7	8995.5	8767.1	8374.2
20°	8873.3	8924.7	9137.1	9358.3	9448.6	9455.7	9439.7	9322.9	9126.4	8875.1	8406.0
22.5°	9039.7	9085.7	9351.2	9600.8	9703.5	9714.1	9666.3	9489.3	9264.5	9002.5	8450.3
25°	9360.1	9416.7	9682.2	9931.8	9984.9	9986.7	9917.7	9698.2	9445.1	9181.3	8545.9
27.5°	9777.8	9834.5	10073.4	10317.7	10289.4	10273.4	10179.6	9960.1	9680.5	9427.4	8715.8
30°	10243.4	10305.3	10531.9	10705.3	10638.1	10606.2	10530.1	10246.9	10007.9	9763.7	8976.0
32.5°	10724.8	10781.5	10979.7	11098.3	11013.3	10999.2	10884.1	10625.7	10434.5	10277.0	9397.3
35°	11218.7	11259.4	11454.1	11521.3	11408.1	11404.5	11372.7	11135.5	11015.1	11089.4	10009.7
37.5°	11723.1	11733.7	11900.1	11903.7	11870.0	11884.2	11917.8	11769.1	11802.8	12034.7	10806.2
40°	12172.7	12201.0	12321.4	12358.6	12417.0	12466.6	12634.7	12537.4	12797.6	13208.2	11797.5
42.5°	12505.5	12560.4	12753.3	12848.9	13038.3	13116.2	13353.4	13443.6	13967.6	14583.5	12976.3
45°	12786.9	12871.9	13181.7	13378.1	13698.5	13834.8	14174.7	14477.3	15289.8	16075.7	14217.1
47.5°	13091.4	13199.4	13587.0	13962.3	14397.7	14551.7	15169.4	15622.6	16700.5	17576.7	15387.2
50°	13539.2	13622.4	14001.2	14590.6	15134.0	15332.3	16187.2	16836.8	18134.3	19006.9	16401.4
52.5°	14164.0	14132.2	14452.6	15279.2	16008.4	16252.7	17274.0	18129.0	19587.5	20300.9	17258.1
55°	14792.4	14739.3	14964.1	15999.6	17028.0	17284.7	18470.6	19426.4	20969.9	21465.6	17914.8
57.5°	15491.6	15390.7	15580.1	16812.1	18189.2	18495.4	19810.5	20805.3	22329.3	22407.2	18332.5
60°	16212.0	16075.7	16288.1	17819.2	19663.6	20024.7	21378.8	22150.6	23610.9	23161.3	18467.1
62.5°	16842.1	16746.6	17074.0	18943.2	21325.7	21722.2	22918.8	23580.8	24874.7	23474.6	17982.1
65°	17392.6	17408.6	17975.0	20207.0	23179.0	23602.0	24685.3	25343.8	25869.5	23288.7	16847.5
67.5°	18049.3	18139.6	19106.1	21870.9	25511.9	25975.7	27255.4	27266.1	26425.3	22198.4	14613.6
70°	19006.9	19192.8	20661.9	24179.1	28829.0	29466.2	30453.9	28395.4	25644.7	19242.4	11498.3
72.5°	19856.6	20203.5	22317.0	26820.0	32871.8	33355.1	32324.9	27744.0	22382.4	14420.7	7163.4
74°	19511.4	19941.5	22617.9	28121.0	34394.1	34626.0	31693.0	25842.9	18661.8	9986.7	4163.2
75°	18768.0	19235.3	22178.9	28108.6	34201.2	34071.9	30167.2	23671.1	15369.5	6811.2	2770.1
77.5°	15146.4	15640.3	18688.3	24090.6	28043.1	27921.0	23173.7	15879.2	6731.5	2233.8	1407.2
80°	8806.1	9183.1	11601.0	15298.7	18909.6	19130.8	15240.2	7857.3	2648.0	1255.0	954.1
82.5°	3911.8	4172.0	5604.0	7809.5	11411.6	11696.6	7981.2	4117.2	1635.5	762.9	573.5
85°	2566.6	2759.5	3402.1	3718.9	5434.1	5628.8	3906.5	3205.6	1079.7	419.5	421.3
87.5°	1846.2	2032.0	2527.6	2207.3	2494.0	2361.3	2125.8	2966.6	433.7	239.0	141.6
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°	8853.9	8853.9	8853.9	8853.9	8853.9	8853.9	8853.9	8853.9	8853.9	8853.9	8853.9
2.5°	8770.7	8742.3	8678.6	8558.3	8491.0	8434.4	8340.5	8285.7	8260.9	8259.1	8269.7
5°	8552.9	8487.5	8322.8	8121.0	7960.0	7813.1	7630.7	7521.0	7443.1	7397.1	7409.5
7.5°	8299.8	8197.2	7938.7	7616.6	7358.2	7073.2	6791.7	6623.6	6492.6	6395.2	6412.9
10°	8126.4	7984.8	7607.7	7144.0	6713.8	6299.7	5912.0	5680.1	5496.0	5354.4	5365.1
12.5°	8067.9	7876.8	7354.6	6735.1	6131.5	5565.1	5058.8	4703.1	4513.7	4352.6	4365.0
15°	8076.8	7820.1	7142.2	6366.9	5607.6	4894.2	4280.0	3864.0	3607.4	3495.9	3497.6
17.5°	8083.9	7754.6	6919.2	5972.2	5088.9	4267.6	3600.3	3179.0	2936.5	2833.9	2835.6
20°	8060.9	7648.4	6643.0	5519.1	4547.3	3692.4	3046.3	2688.7	2504.6	2425.0	2425.0
22.5°	8030.8	7522.8	6331.5	5064.2	4012.7	3193.2	2649.8	2377.2	2271.0	2217.9	2216.1
25°	8044.9	7429.0	6012.9	4596.9	3520.7	2794.9	2386.0	2205.5	2134.7	2101.1	2099.3
27.5°	8121.0	7384.7	5719.1	4131.3	3090.5	2495.8	2209.0	2081.6	2035.6	2014.3	2014.3
30°	8259.1	7384.7	5412.9	3734.8	2733.0	2274.5	2072.7	1986.0	1954.1	1940.0	1940.0
32.5°	8499.8	7425.4	5117.3	3341.9	2448.0	2101.1	1959.5	1901.0	1876.3	1869.2	1869.2
35°	8914.0	7563.5	4828.7	2970.2	2217.9	1959.5	1851.5	1817.9	1800.2	1798.4	1803.7
37.5°	9496.4	7844.9	4557.9	2695.8	2055.0	1844.4	1761.2	1734.7	1724.0	1732.9	1740.0
40°	10229.2	8227.3	4311.9	2448.0	1931.1	1752.4	1678.0	1660.3	1655.0	1667.4	1678.0
42.5°	11114.2	8744.1	4110.1	2269.2	1835.6	1674.5	1607.2	1586.0	1580.7	1594.8	1609.0
45°	12071.8	9299.9	3968.5	2136.5	1761.2	1616.1	1545.3	1522.3	1511.6	1518.7	1534.6
47.5°	12942.7	9825.6	3911.8	2042.7	1690.4	1566.5	1490.4	1462.1	1444.4	1440.8	1453.2
50°	13677.3	10216.8	3938.4	1986.0	1633.8	1511.6	1437.3	1405.4	1378.9	1362.9	1371.8
52.5°	14211.8	10462.8	3963.2	1961.2	1589.5	1451.5	1378.9	1348.8	1313.4	1286.8	1286.8
55°	14599.5	10519.5	3908.3	1941.8	1555.9	1386.0	1313.4	1285.1	1249.7	1219.6	1216.0
57.5°	14751.7	10360.2	3704.7	1913.4	1532.9	1324.0	1244.4	1223.1	1193.0	1157.6	1155.9
60°	14546.4	9868.1	3311.8	1853.3	1502.8	1272.7	1175.3	1161.2	1147.0	1113.4	1111.6
62.5°	13721.5	8788.4	2803.8	1731.1	1442.6	1217.8	1111.6	1118.7	1120.4	1097.4	1093.9
65°	12225.8	7305.1	2308.2	1571.8	1352.3	1152.3	1046.1	1079.7	1099.2	1095.7	1090.4
67.5°	10052.2	5685.4	1955.9	1403.7	1233.7	1062.0	975.3	1014.2	1030.2	1042.6	1039.0
70°	7460.8	4009.2	1617.8	1226.7	1090.4	955.8	883.3	902.7	892.1	906.3	911.6
72.5°	4159.6	2405.5	1318.7	1049.6	941.7	831.9	780.6	777.1	754.0	754.0	754.0
74°	2495.8	1764.8	1159.4	939.9	851.4	750.5	706.3	690.3	669.1	670.9	669.1
75°	2007.3	1516.9	1063.8	867.3	787.7	702.7	658.5	637.2	621.3	621.3	619.5
77.5°	1267.4	1152.3	856.7	690.3	630.1	578.8	548.7	520.4	520.4	518.6	516.9
80°	957.6	916.9	667.3	522.2	483.2	444.3	424.8	412.4	412.4	417.7	416.0
82.5°	656.7	690.3	469.1	364.6	345.2	316.8	313.3	315.1	309.8	302.7	300.9
85°	479.7	518.6	316.8	230.1	210.6	192.9	207.1	214.2	205.3	189.4	182.3
87.5°	184.1	339.9	169.9	95.6	88.5	76.1	88.5	92.0	99.1	77.9	79.7
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)