

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: P317849

Luminaire Tested: **GAN-SA5C-760-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-760-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36144 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 279
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

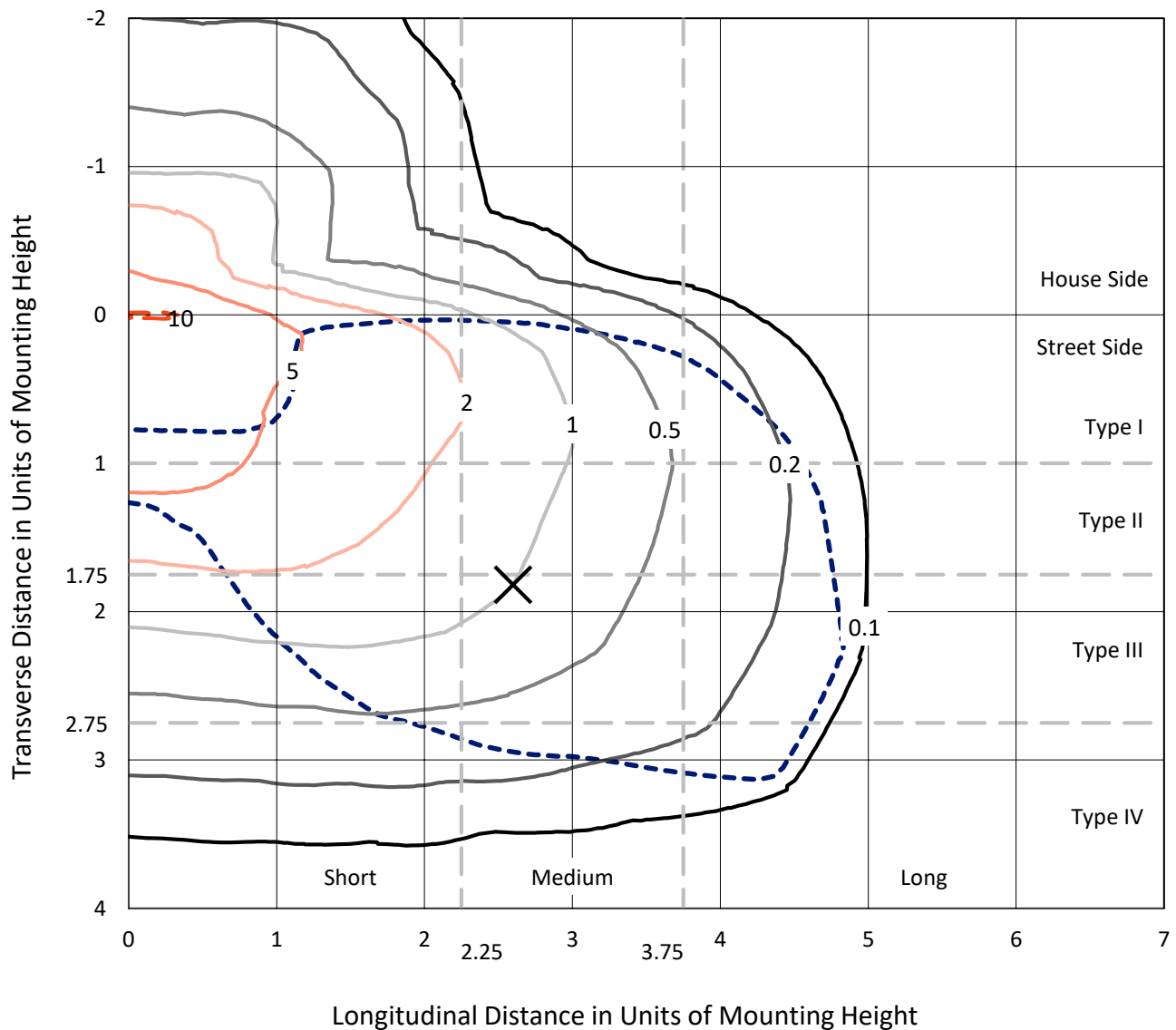


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Iso-Footcandle Lines of Horizontal Illumination

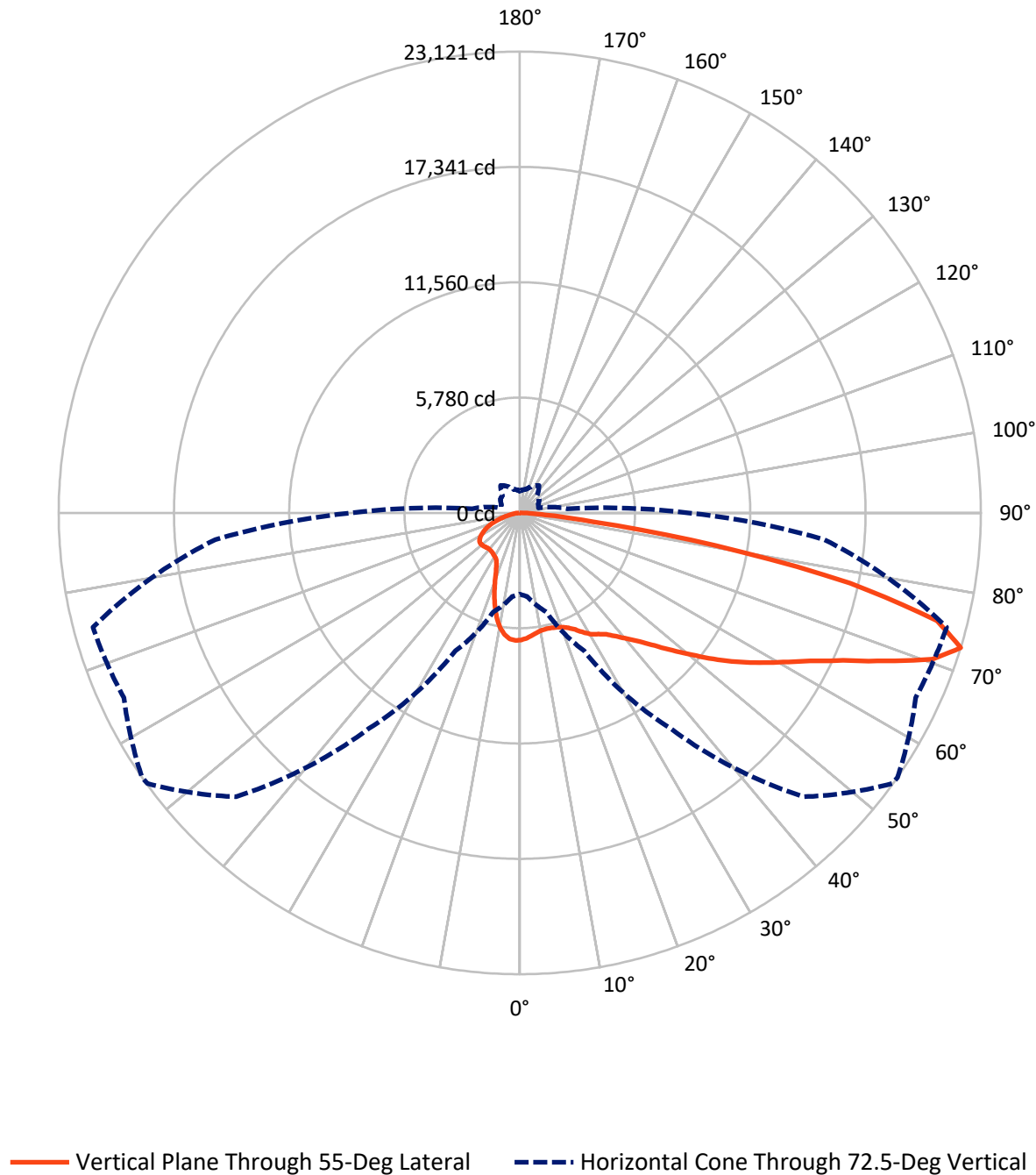
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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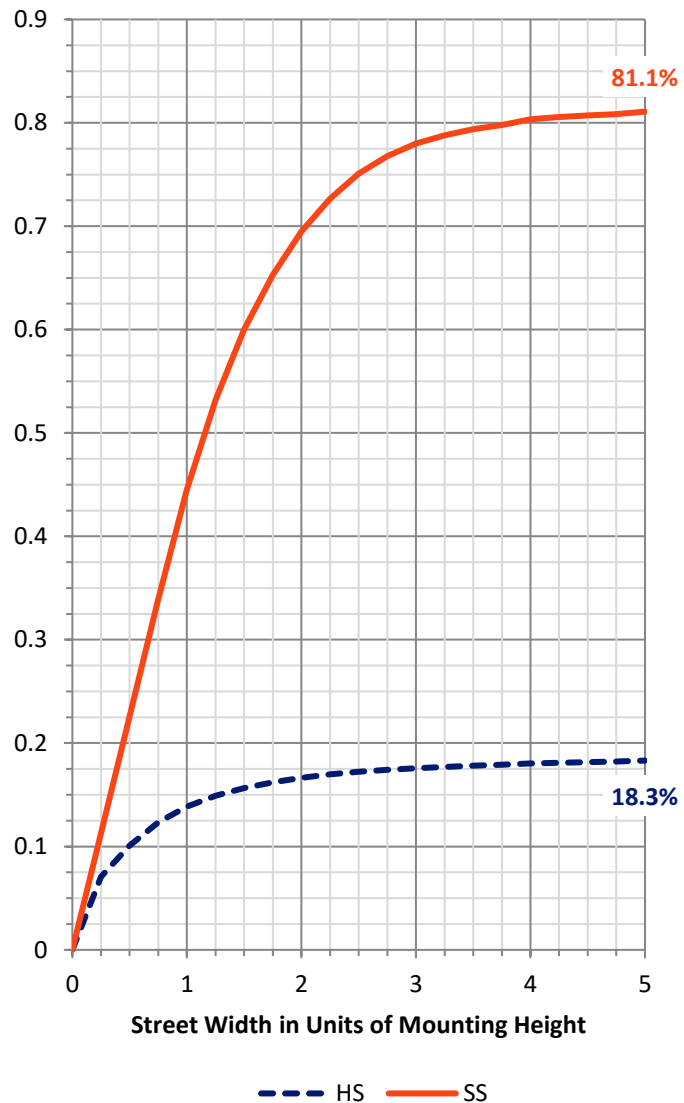
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6718.0	0.0	6718.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	29426.0	0.0	29426.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	36144.0	0.0	36144.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.9	1.6
10°-20°	1535.8	4.2
20°-30°	2532.2	7.0
30°-40°	3745.8	10.4
40°-50°	5228.3	14.5
50°-60°	6807.4	18.8
60°-70°	8366.1	23.1
70°-80°	6558.0	18.1
80°-90°	793.6	2.2
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°	36144.0	100.0
0°-180°	36144.0	100.0

Coefficient of Utilization



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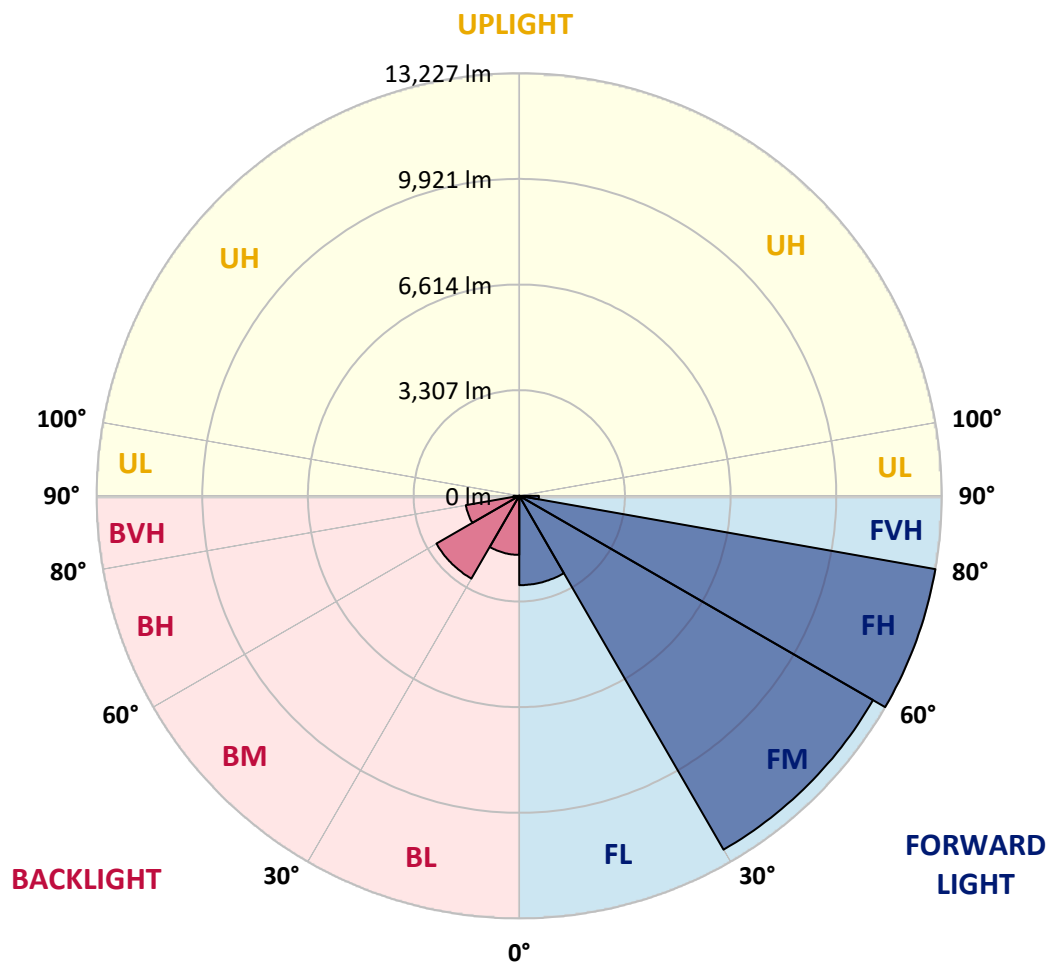
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2796.5	7.7			
FM	(30°-60°)	12788.5	35.4			
FH	(60°-80°)	13227.5	36.6			G5
FVH	(80°-90°)	613.6	1.7			G4/750
BL	(0°-30°)	1848.4	5.1	B3/2500		
BM	(30°-60°)	2993.0	8.3	B3/5000		
BH	(60°-80°)	1696.6	4.7	B3/2500		G3/2500
BVH	(80°-90°)	180.0	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6375.0	6375.0	6375.0	6375.0	6375.0	6375.0	6375.0	6375.0	6375.0	6375.0	6375.0
2.5°	6167.5	6152.8	6171.2	6196.8	6224.9	6262.7	6284.7	6294.5	6332.3	6346.9	6378.7
5°	5881.8	5874.5	5905.0	5949.0	6011.2	6099.1	6169.9	6183.4	6283.5	6354.3	6419.0
7.5°	5674.3	5674.3	5709.7	5762.2	5831.8	5950.2	6050.3	6068.6	6238.3	6390.9	6510.5
10°	5509.5	5515.6	5557.1	5619.3	5701.1	5826.9	5960.0	5980.7	6226.1	6476.4	6666.8
12.5°	5399.6	5414.3	5452.1	5508.3	5609.6	5762.2	5930.7	5958.7	6251.7	6598.4	6854.8
15°	5469.2	5493.6	5497.3	5520.5	5576.6	5742.6	5947.7	5977.0	6306.7	6723.0	7068.4
17.5°	5774.4	5782.9	5745.1	5696.3	5669.4	5775.6	5999.0	6029.5	6372.6	6846.3	7273.5
20°	6238.3	6233.4	6151.6	6019.8	5883.0	5900.1	6083.3	6115.0	6461.7	6954.9	7478.6
22.5°	6824.3	6807.2	6681.4	6438.5	6205.3	6107.7	6231.0	6257.8	6596.0	7109.9	7698.4
25°	7534.8	7496.9	7330.9	7005.0	6661.9	6410.4	6453.2	6478.8	6791.3	7283.3	7899.8
27.5°	8284.4	8246.5	8035.3	7641.0	7184.4	6792.5	6759.6	6781.6	7013.5	7411.5	8048.7
30°	9068.1	9027.8	8834.9	8393.0	7738.7	7188.1	7045.2	7053.8	7169.8	7481.1	8170.8
32.5°	9855.5	9817.7	9601.6	9088.9	8340.5	7612.9	7251.6	7240.6	7263.8	7553.1	8308.8
35°	10653.9	10668.6	10415.9	9848.2	9007.1	8085.4	7495.7	7472.5	7421.3	7700.8	8504.1
37.5°	11508.5	11498.7	11171.6	10578.2	9704.1	8598.1	7846.1	7842.4	7665.4	7980.4	8810.5
40°	12079.8	12085.9	11886.9	11325.4	10408.6	9165.8	8295.3	8286.8	8054.8	8399.1	9212.2
42.5°	12303.2	12343.5	12394.8	12038.3	11145.9	9823.8	8831.3	8819.1	8598.1	8999.7	9684.6
45°	12319.1	12399.7	12717.1	12671.9	11893.0	10577.0	9516.1	9482.0	9323.3	9798.2	10248.6
47.5°	12182.4	12265.4	12792.8	13049.1	12560.8	11371.8	10317.0	10290.1	10153.4	10796.8	10859.0
50°	11883.3	11962.6	12636.5	13233.5	13110.2	12136.0	11239.9	11169.1	11095.9	11950.4	11557.3
52.5°	11322.9	11475.5	12427.8	13277.4	13438.6	12814.8	12210.5	12164.1	12204.3	13167.6	12256.8
55°	9995.9	10166.8	11889.4	13240.8	13681.5	13384.9	13181.0	13178.5	13387.3	14444.5	13007.6
57.5°	9252.5	9373.3	10793.1	13178.5	13969.6	13951.3	14141.8	14165.0	14571.5	15835.0	13793.8
60°	8832.5	8959.5	10237.6	12947.8	14416.4	14683.8	15122.1	15168.5	15775.2	17374.4	14740.0
62.5°	8450.4	8589.6	9893.4	12477.8	14942.6	15731.2	16296.5	16338.0	17049.7	18956.6	15654.3
65°	7797.3	7954.7	9389.2	12168.9	15421.2	17097.3	17789.5	17817.6	18513.5	20614.4	16353.9
67.5°	6874.3	7018.4	8438.2	11486.5	15775.2	18756.4	19774.5	19790.4	19965.0	21785.2	16711.5
70°	5796.4	5851.3	7083.1	10077.7	15356.5	20308.0	21950.0	21953.7	21288.3	22534.8	16652.9
72.5°	4072.6	4202.0	5142.0	7628.8	13196.9	20118.8	23079.2	23120.8	21903.6	22156.3	15322.3
75°	2497.8	2634.5	3225.4	4623.2	8372.3	15822.8	21323.7	21611.8	20750.0	19755.0	12516.9
77.5°	1670.1	1721.3	2104.7	2695.5	3793.0	9103.5	16394.1	16936.2	17237.7	14406.7	8004.8
80°	931.5	1029.1	1395.4	1674.9	1687.1	3617.2	9829.9	9956.9	9590.6	5736.5	2469.7
82.5°	493.2	546.9	931.5	984.0	920.5	1211.0	3663.6	3667.3	3064.2	1538.2	733.7
85°	382.1	427.3	638.5	600.6	470.0	537.2	1208.6	1274.5	1042.6	629.9	239.3
87.5°	190.4	236.8	433.4	380.9	184.3	153.8	432.2	461.5	411.4	246.6	86.7
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°	6375.0	6375.0	6375.0	6375.0	6375.0	6375.0	6375.0	6375.0	6375.0	6375.0	6375.0
2.5°	6390.9	6401.9	6415.3	6400.7	6395.8	6376.2	6343.3	6336.0	6318.9	6320.1	6329.9
5°	6447.1	6465.4	6458.0	6401.9	6334.7	6240.7	6143.1	6060.1	6005.1	6001.5	5997.8
7.5°	6554.5	6566.7	6509.3	6349.4	6161.4	5944.1	5739.0	5559.5	5450.9	5424.0	5417.9
10°	6723.0	6720.5	6563.0	6240.7	5865.9	5477.7	5148.1	4899.1	4753.8	4711.1	4700.1
12.5°	6911.0	6882.9	6581.3	6043.0	5448.4	4910.1	4492.5	4215.4	4064.0	4015.2	4003.0
15°	7105.1	7035.5	6536.2	5747.5	4935.7	4298.4	3860.2	3603.8	3522.0	3495.2	3490.3
17.5°	7285.7	7151.5	6406.8	5347.1	4350.9	3689.3	3347.4	3244.9	3264.4	3299.8	3301.0
20°	7462.8	7229.6	6199.2	4841.7	3734.4	3187.5	3071.5	3147.2	3240.0	3312.0	3321.8
22.5°	7637.3	7284.5	5931.9	4258.2	3182.6	2905.5	2987.3	3125.3	3231.5	3309.6	3323.0
25°	7783.8	7297.9	5563.2	3635.5	2799.3	2799.3	2947.0	3077.6	3182.6	3259.5	3273.0
27.5°	7837.5	7207.6	5043.1	3059.3	2606.4	2750.5	2890.9	2999.5	3088.6	3170.4	3185.1
30°	7858.3	7040.4	4442.5	2596.6	2527.1	2698.0	2815.2	2907.9	2992.2	3069.1	3082.5
32.5°	7862.0	6838.9	3805.2	2334.2	2472.1	2643.0	2721.2	2803.0	2893.3	2923.8	2928.7
35°	7885.2	6600.9	3133.8	2199.9	2420.8	2591.8	2654.0	2712.6	2566.1	2577.1	2586.9
37.5°	7952.3	6365.3	2572.2	2124.2	2387.9	2564.9	2639.4	2427.0	2312.2	2285.3	2281.7
40°	8078.0	6113.8	2155.9	2063.2	2375.7	2578.3	2545.4	2265.8	2068.0	1920.3	1898.3
42.5°	8252.6	5842.8	1889.8	2022.9	2384.2	2643.0	2414.7	2110.8	1782.4	1687.1	1674.9
45°	8449.2	5558.3	1745.7	1994.8	2413.5	2693.1	2387.9	1904.4	1649.3	1577.3	1571.2
47.5°	8639.6	5210.4	1671.3	1982.6	2453.8	2652.8	2274.4	1841.0	1585.8	1548.0	1551.6
50°	8858.1	4896.6	1626.1	1969.2	2489.2	2627.2	2146.2	1808.0	1561.4	1607.8	1656.6
52.5°	9042.5	4571.9	1585.8	1942.3	2502.6	2582.0	2113.2	1814.1	1561.4	1650.5	1696.9
55°	9261.0	4326.5	1539.4	1886.1	2477.0	2453.8	2090.0	1850.7	1579.7	1523.6	1528.4
57.5°	9543.0	4245.9	1488.2	1798.2	2391.5	2267.0	2079.0	1886.1	1568.7	1533.3	1545.5
60°	9933.7	4331.4	1467.4	1683.5	2258.5	2120.5	2080.2	1867.8	1491.8	1430.8	1432.0
62.5°	10306.0	4426.6	1466.2	1611.5	2094.9	1989.9	2052.2	1808.0	1452.8	1417.4	1430.8
65°	10428.1	4330.2	1407.6	1530.9	1910.6	1833.6	2000.9	1744.5	1423.5	1369.7	1367.3
67.5°	10264.5	4031.1	1289.2	1400.3	1699.4	1651.7	1933.7	1668.8	1377.1	1333.1	1325.8
70°	9778.6	3363.3	1142.7	1228.1	1458.9	1446.6	1827.5	1580.9	1314.8	1277.0	1245.2
72.5°	8471.1	2396.4	963.2	1021.8	1187.8	1226.9	1681.0	1466.2	1226.9	1145.1	1096.3
75°	6957.3	1773.8	791.1	803.3	902.2	1008.4	1479.6	1331.9	1123.1	984.0	946.1
77.5°	4260.6	1085.3	629.9	634.8	647.0	804.5	1218.4	1181.7	991.3	820.4	793.5
80°	1379.5	592.1	455.4	478.6	441.9	589.6	942.5	1005.9	850.9	686.1	656.8
82.5°	524.9	345.5	307.6	323.5	306.4	395.5	687.3	805.7	697.1	564.0	459.0
85°	253.9	195.3	181.9	203.9	189.2	202.7	439.5	593.3	528.6	367.5	341.8
87.5°	90.3	86.7	69.6	94.0	80.6	72.0	134.3	299.1	349.1	252.7	225.8
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)