

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: P321048

Luminaire Tested: **GAN-SA4C-760-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-760-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29271 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

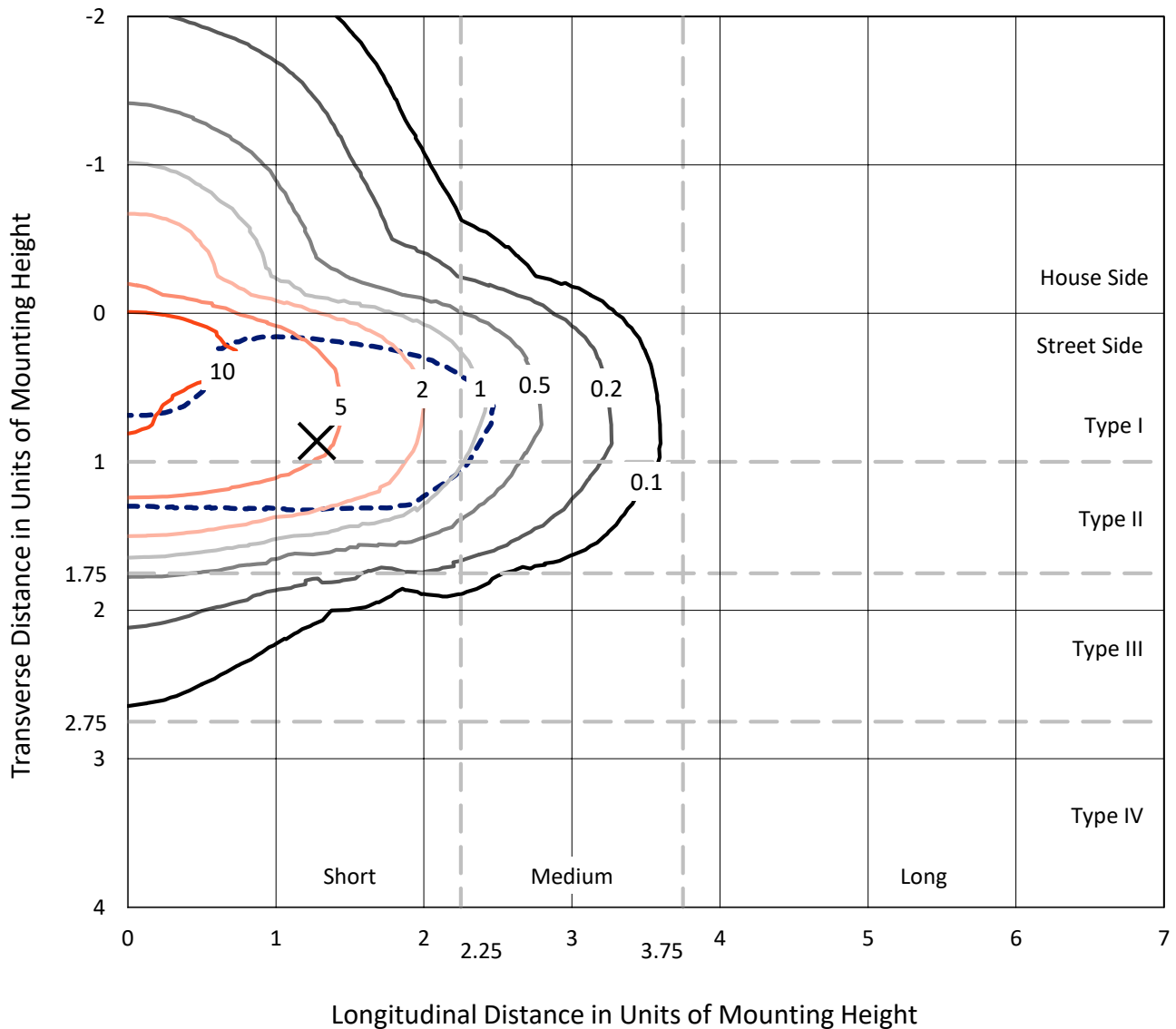
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

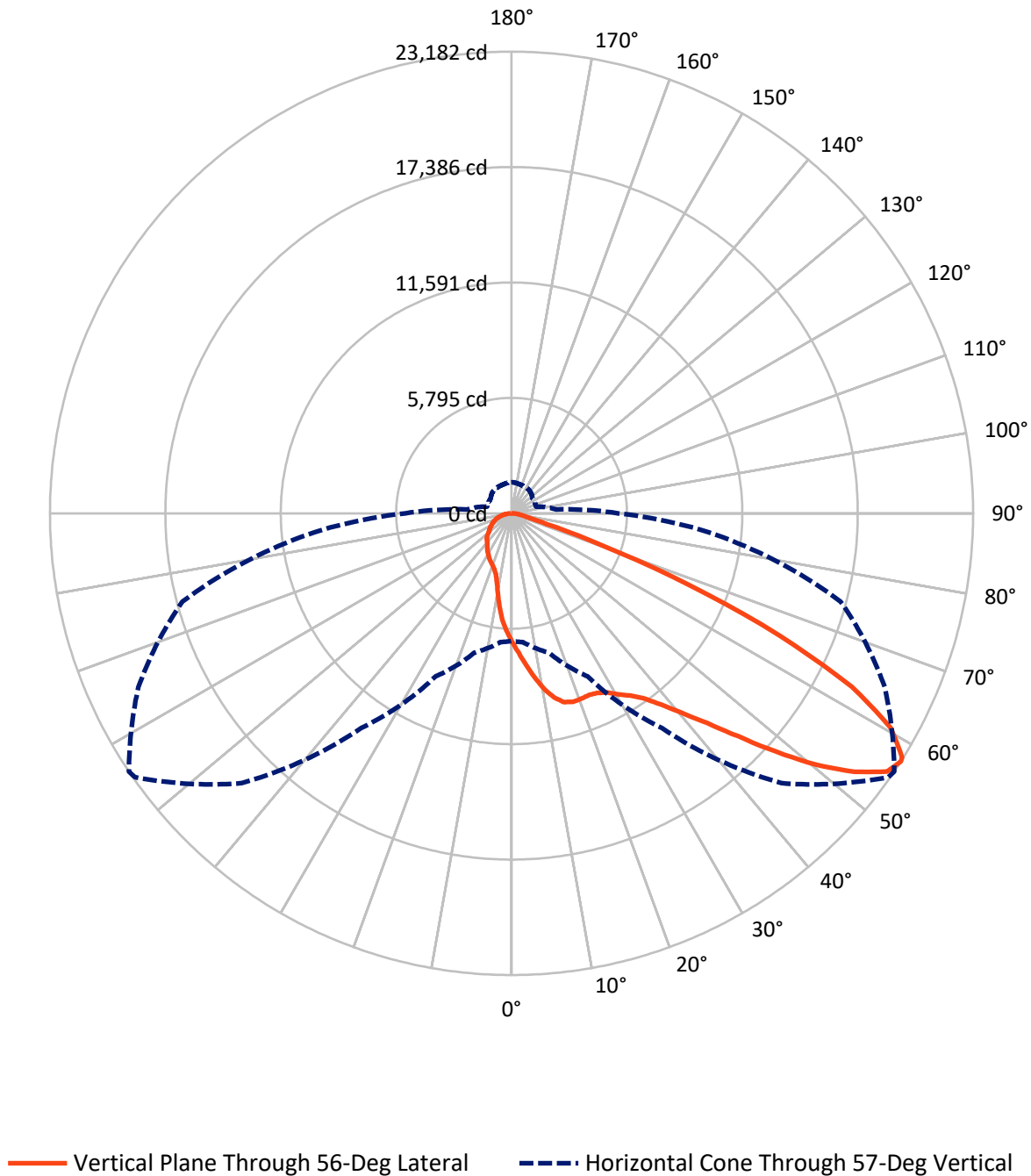
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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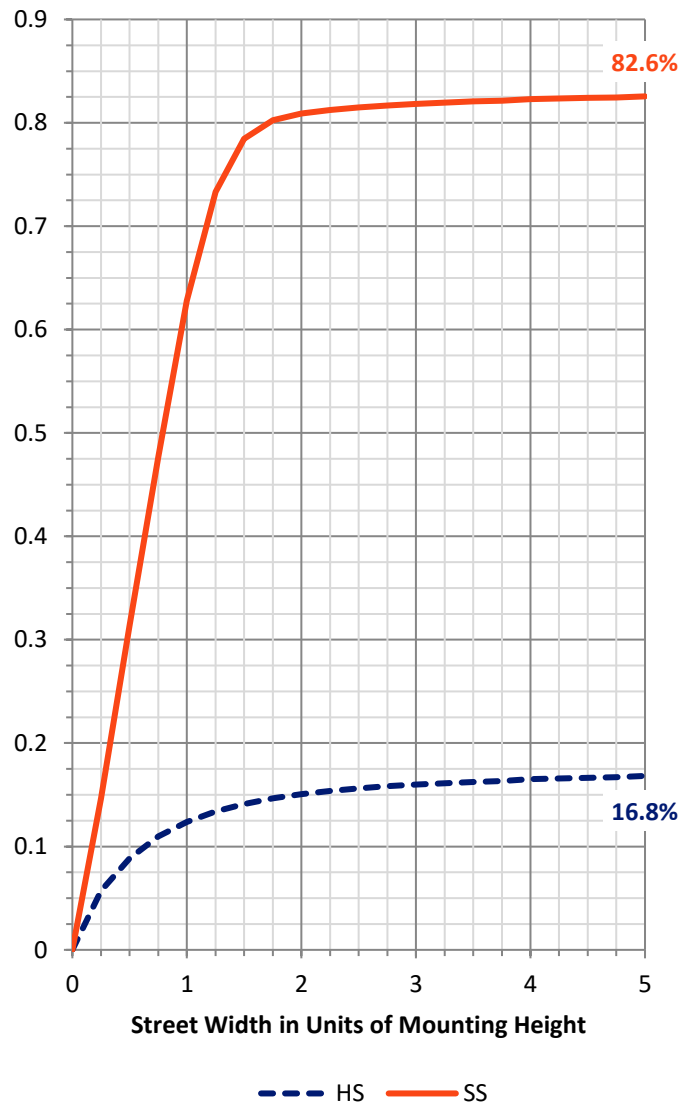
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5045.7	0.0	5045.7
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	24225.3	0.0	24225.3
	% Fixture	82.8	0.0	82.8
Total	Lumens	29271.0	0.0	29271.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.2	2.1
10°-20°	1753.4	6.0
20°-30°	2855.9	9.8
30°-40°	4269.3	14.6
40°-50°	6475.6	22.1
50°-60°	7258.1	24.8
60°-70°	4286.9	14.6
70°-80°	1404.6	4.8
80°-90°	347.0	1.2
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°	29271.0	100.0
0°-180°	29271.0	100.0

Coefficient of Utilization



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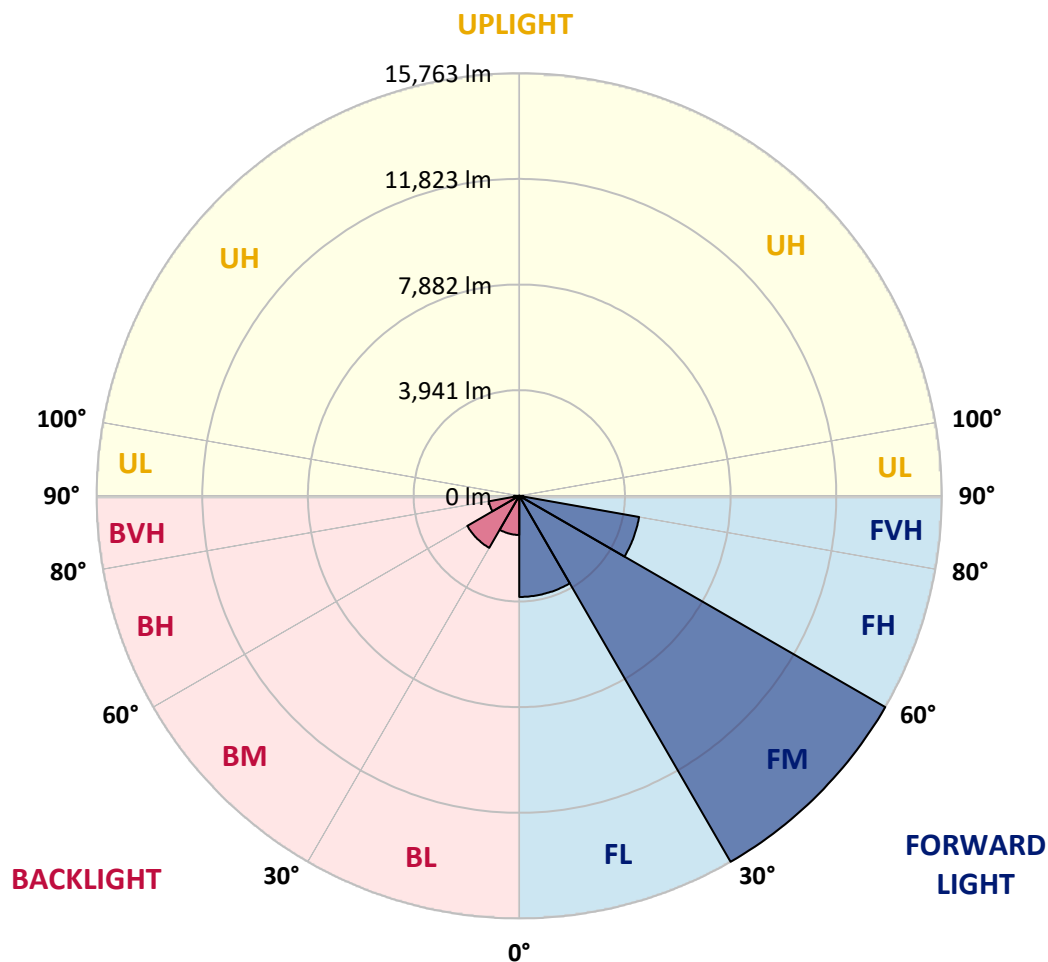
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3770.5	12.9			
FM	(30°-60°)	15763.4	53.9			
FH	(60°-80°)	4538.6	15.5			G2/5000
FVH	(80°-90°)	152.8	0.5			G2/225
BL	(0°-30°)	1459.0	5.0	B3/2500		
BM	(30°-60°)	2239.6	7.7	B2/2500		
BH	(60°-80°)	1152.9	3.9	B3/2500		G3/2500
BVH	(80°-90°)	194.2	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6492.3	6492.3	6492.3	6492.3	6492.3	6492.3	6492.3	6492.3	6492.3	6492.3	6492.3
2.5°	7455.0	7523.4	7493.2	7388.6	7308.2	7194.5	7067.7	7029.5	6895.7	6745.8	6565.8
5°	8635.0	8600.8	8551.5	8388.5	8216.5	8016.3	7698.5	7648.2	7350.4	7011.4	6653.3
7.5°	9307.0	9303.9	9274.8	9179.2	9022.3	8760.7	8377.5	8318.1	7868.5	7323.2	6768.0
10°	9209.4	9202.3	9250.6	9350.2	9397.5	9343.2	9020.3	8960.9	8408.6	7668.3	6900.7
12.5°	8655.1	8659.1	8736.6	8945.8	9230.5	9572.5	9520.2	9491.0	8969.0	8058.6	7061.7
15°	8223.6	8232.6	8294.0	8476.0	8812.0	9432.7	9824.0	9834.1	9511.2	8489.1	7249.8
17.5°	8034.4	8053.6	8081.7	8209.5	8517.3	9154.1	9896.4	9950.8	9986.0	8935.8	7430.9
20°	8094.8	8112.9	8121.0	8202.4	8454.9	8985.1	9846.1	9943.7	10350.1	9356.2	7611.9
22.5°	8365.4	8376.5	8381.5	8402.6	8598.8	9033.3	9812.9	9915.5	10613.7	9733.5	7748.8
25°	8814.0	8806.0	8773.8	8746.6	8878.4	9224.5	9889.4	9987.0	10827.9	10075.5	7838.3
27.5°	9351.2	9341.2	9278.8	9204.3	9279.8	9522.2	10109.7	10187.2	11020.1	10395.4	7883.5
30°	9996.0	9969.9	9852.2	9763.7	9792.8	9968.9	10472.8	10543.3	11316.8	10758.5	7927.8
32.5°	10741.4	10713.3	10543.3	10396.4	10396.4	10543.3	10847.0	10905.4	11568.3	11168.9	7999.2
35°	11674.9	11639.7	11418.4	11172.0	11102.6	11177.0	11357.1	11398.3	12021.0	11686.0	8129.0
37.5°	12775.4	12728.2	12441.5	12111.5	11959.6	11955.6	12085.4	12169.9	12744.2	12365.0	8349.3
40°	13878.9	13845.8	13595.3	13335.7	13038.0	12942.4	13142.6	13168.8	13689.8	13208.0	8631.0
42.5°	14732.0	14726.0	14679.7	14713.9	14409.1	14215.9	14372.9	14394.0	14844.7	14120.4	8930.7
45°	15182.6	15192.7	15417.0	15914.0	16026.6	15885.8	15963.3	15969.3	16164.4	15040.8	9205.4
47.5°	14821.5	14873.8	15441.2	16552.7	17475.2	17942.9	17814.2	17888.6	17444.0	15831.5	9420.6
50°	13414.2	13478.6	14444.3	16268.1	18151.2	19933.7	19866.3	19849.2	18476.1	16410.9	9537.3
52.5°	11670.9	11721.2	12517.9	14788.3	17655.2	21034.2	21652.9	21564.3	19393.5	16844.5	9559.4
55°	9016.2	9094.7	9858.2	11834.9	15649.4	20613.7	22966.6	22887.1	20229.4	17071.8	9533.3
57°	6409.8	6492.3	7250.8	9032.3	13164.7	19158.1	23097.4	23181.9	20681.1	17110.0	9562.5
57.5°	5719.8	5804.3	6555.7	8285.9	12390.2	18632.0	22984.7	23125.5	20762.6	17104.0	9578.6
60°	2880.0	2912.2	3391.0	4625.3	7832.2	15062.9	21515.0	21878.2	20836.0	16808.2	9648.0
62.5°	1790.6	1767.4	1752.3	2130.6	3810.5	9989.0	18482.1	19181.3	19430.7	16092.0	9480.0
65°	1574.3	1531.0	1365.1	1334.9	1682.9	4851.6	13918.2	14788.3	16428.0	14963.4	9079.6
67.5°	1478.7	1436.5	1249.4	1136.7	1137.7	1923.4	8641.0	9620.8	12797.6	13055.1	8135.0
70°	1380.1	1341.9	1166.9	1034.1	968.7	1065.3	3975.5	4718.9	8342.3	10261.6	6799.1
72.5°	1253.4	1227.2	1061.3	924.5	855.0	797.7	1522.0	1797.6	4829.5	6891.7	4721.9
75°	1120.6	1096.5	954.6	823.9	739.4	627.7	857.1	923.5	2453.5	3525.8	2324.7
77.5°	974.8	960.7	849.0	728.3	660.9	520.1	606.6	638.8	1052.2	1511.9	1165.9
80°	775.6	802.7	742.4	648.8	586.5	416.5	429.5	450.7	612.6	738.4	661.9
82.5°	505.0	552.3	581.4	527.1	482.9	327.9	308.8	317.9	399.4	450.7	287.7
85°	210.2	236.4	382.3	345.0	320.9	239.4	207.2	211.2	247.5	256.5	117.7
87.5°	93.6	99.6	168.0	157.9	135.8	82.5	88.5	96.6	131.8	124.7	45.3
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°	6492.3	6492.3	6492.3	6492.3	6492.3	6492.3	6492.3	6492.3	6492.3	6492.3	6492.3
2.5°	6498.4	6413.9	6269.0	6109.1	5978.3	5873.7	5768.1	5695.6	5611.1	5565.9	5542.7
5°	6503.4	6337.4	6032.6	5719.8	5440.1	5184.6	4941.2	4754.1	4579.0	4484.5	4458.3
7.5°	6524.5	6275.1	5782.1	5267.1	4770.2	4316.5	3966.4	3747.1	3589.2	3518.8	3498.7
10°	6541.6	6201.6	5472.3	4709.8	4033.8	3574.1	3302.5	3179.8	3125.5	3116.4	3107.3
12.5°	6581.9	6126.2	5146.4	4128.4	3461.4	3143.6	3049.0	3041.0	3056.0	3078.2	3078.2
15°	6645.2	6051.7	4774.2	3629.4	3097.3	2985.6	3004.7	3049.0	3090.2	3124.4	3129.5
17.5°	6691.5	5960.2	4373.8	3230.1	2903.1	2933.3	3001.7	3064.1	3106.3	3139.5	3142.6
20°	6724.7	5818.4	3946.3	2925.3	2791.5	2885.0	2970.5	3025.9	3055.0	3088.2	3093.3
22.5°	6707.6	5628.2	3567.1	2707.0	2700.9	2814.6	2896.1	2962.5	2940.4	2908.2	2929.3
25°	6625.1	5366.7	3176.8	2544.0	2605.4	2720.1	2820.7	2776.4	2702.0	2687.9	2695.9
27.5°	6478.3	5032.7	2815.6	2393.1	2494.7	2632.5	2626.5	2582.2	2556.1	2538.0	2549.1
30°	6320.3	4670.6	2499.8	2261.4	2372.0	2485.7	2462.5	2461.5	2435.4	2406.2	2420.3
32.5°	6164.4	4306.4	2249.3	2152.7	2279.5	2294.5	2344.8	2359.9	2308.6	2247.3	2243.2
35°	6028.6	3962.4	2059.2	2054.1	2167.8	2169.8	2243.2	2222.1	2094.4	2031.0	2031.0
37.5°	5927.0	3619.4	1914.3	1965.6	2020.9	2073.2	2110.5	2022.9	2001.8	1966.6	1965.6
40°	5882.7	3317.6	1823.8	1898.2	1917.3	1983.7	1888.1	1922.4	1932.4	1914.3	1914.3
42.5°	5836.5	3055.0	1745.3	1846.9	1843.9	1834.8	1786.5	1830.8	1871.0	1872.1	1869.0
45°	5790.2	2828.7	1675.9	1737.3	1779.5	1681.9	1691.0	1738.3	1794.6	1814.7	1814.7
47.5°	5738.9	2649.6	1612.5	1621.6	1687.0	1621.6	1614.5	1650.7	1717.1	1749.3	1756.4
50°	5626.2	2488.7	1540.1	1520.0	1538.1	1560.2	1566.2	1583.3	1656.8	1708.1	1720.2
52.5°	5470.3	2344.8	1447.5	1426.4	1426.4	1509.9	1538.1	1543.1	1605.5	1666.8	1678.9
55°	5340.5	2253.3	1352.0	1348.0	1343.9	1456.6	1504.9	1512.9	1556.2	1604.5	1610.5
57°	5349.6	2246.3	1278.5	1282.6	1281.6	1402.3	1473.7	1490.8	1512.9	1554.2	1561.2
57.5°	5354.6	2251.3	1262.5	1264.5	1263.5	1387.2	1464.6	1483.8	1500.9	1544.1	1551.2
60°	5430.1	2264.4	1197.1	1174.9	1180.0	1306.7	1413.3	1437.5	1448.6	1505.9	1514.9
62.5°	5318.4	2206.0	1144.8	1091.4	1091.4	1222.2	1341.9	1380.1	1397.3	1474.7	1489.8
65°	4994.5	2042.1	1083.4	996.9	1006.9	1137.7	1256.4	1318.8	1344.9	1441.5	1457.6
67.5°	4494.5	1851.9	1018.0	912.4	922.4	1049.2	1167.9	1235.3	1276.5	1405.3	1418.4
70°	3843.7	1619.6	929.5	822.9	834.9	952.6	1063.3	1139.7	1201.1	1371.1	1375.1
72.5°	2833.7	1327.8	805.8	724.3	737.4	840.0	957.7	1046.2	1128.7	1285.6	1283.6
75°	1684.9	1038.1	668.9	624.7	633.7	729.3	862.1	969.7	1093.5	1252.4	1271.5
77.5°	1022.0	781.6	545.2	523.1	534.2	631.7	793.7	908.4	1078.4	1181.0	1174.9
80°	617.6	558.3	435.6	421.5	432.6	540.2	734.3	862.1	942.6	1009.0	1009.0
82.5°	322.9	341.0	319.9	308.8	323.9	438.6	667.9	752.4	832.9	715.2	667.9
85°	131.8	178.1	194.1	193.1	202.2	303.8	576.4	643.8	537.2	510.0	522.1
87.5°	44.3	75.4	94.6	81.5	85.5	191.1	399.4	310.8	369.2	257.5	244.4
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)