

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: P318168

Luminaire Tested: **GAN-SA4C-760-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-760-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27999 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

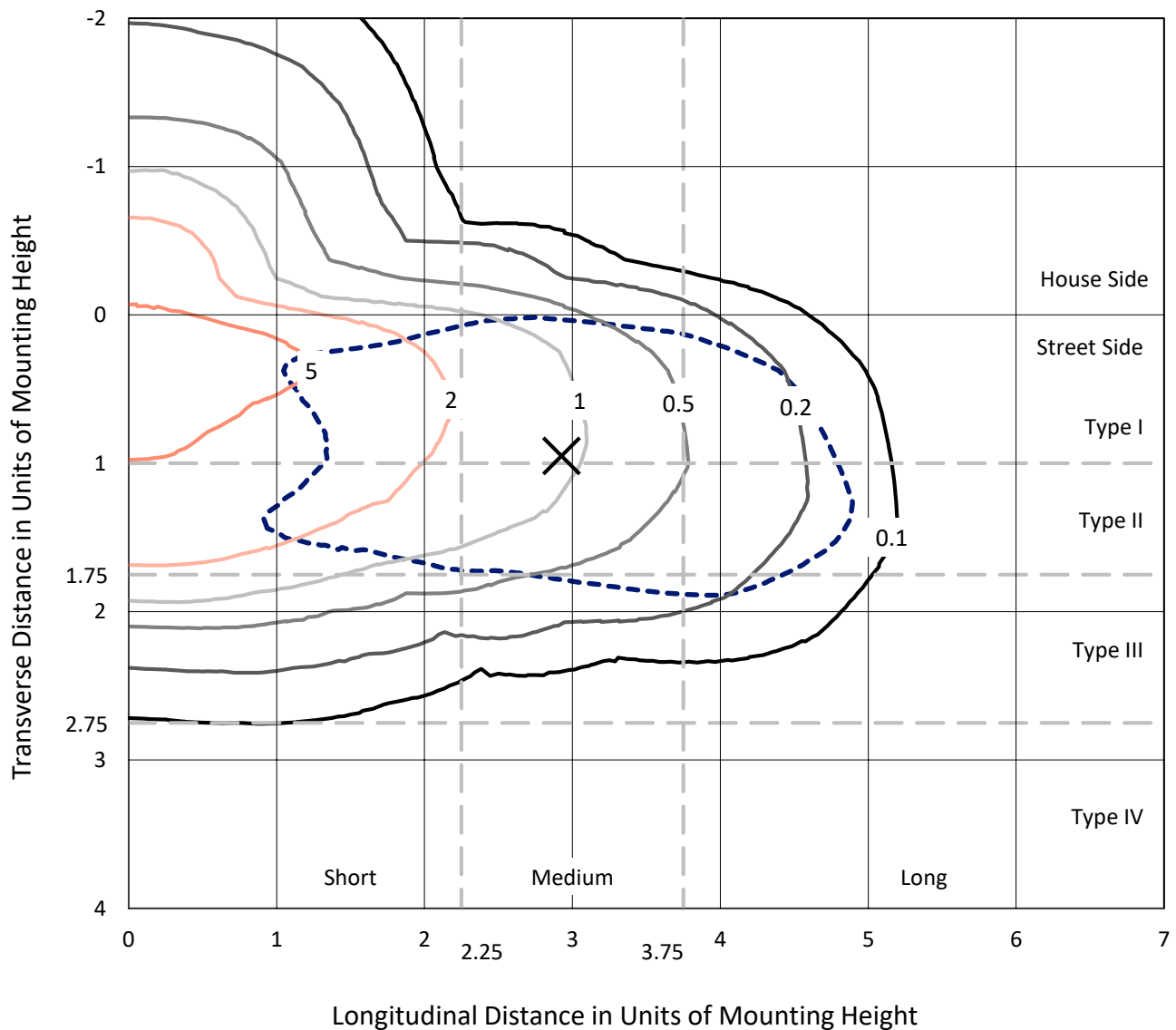
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

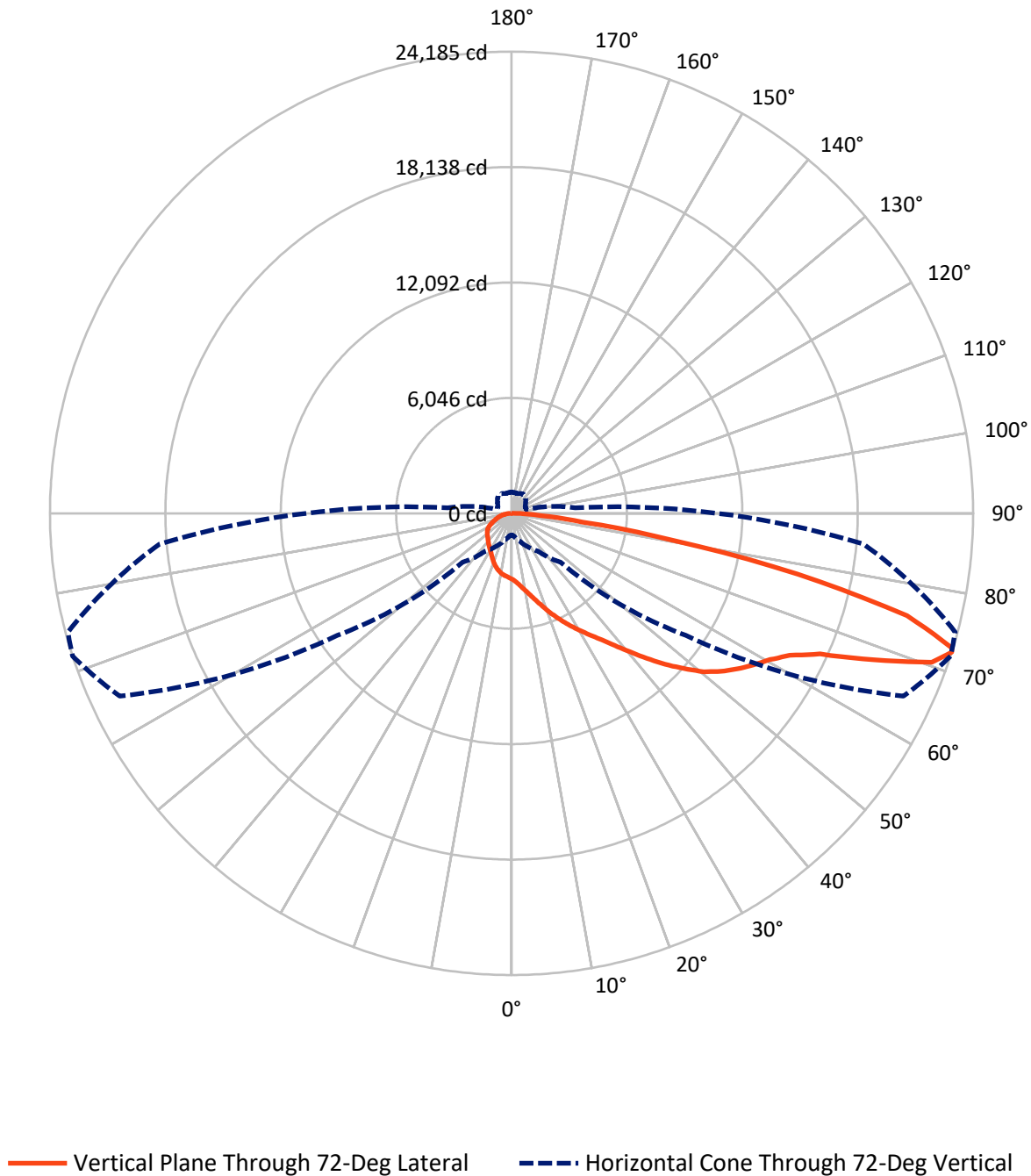
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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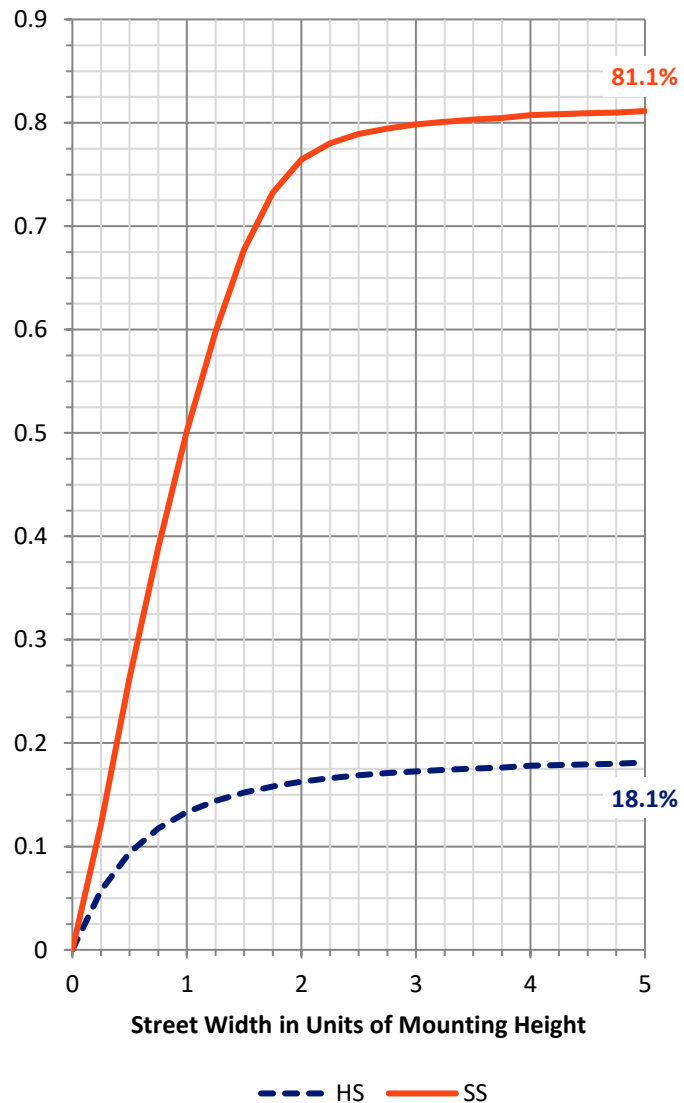
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5194.0	0.0	5194.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	22805.0	0.0	22805.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	27999.0	0.0	27999.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.2	1.2
10°-20°	1115.4	4.0
20°-30°	1954.5	7.0
30°-40°	2897.9	10.4
40°-50°	4238.5	15.1
50°-60°	5832.1	20.8
60°-70°	6492.8	23.2
70°-80°	4399.5	15.7
80°-90°	723.1	2.6
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°	27999.0	100.0
0°-180°	27999.0	100.0

Coefficient of Utilization



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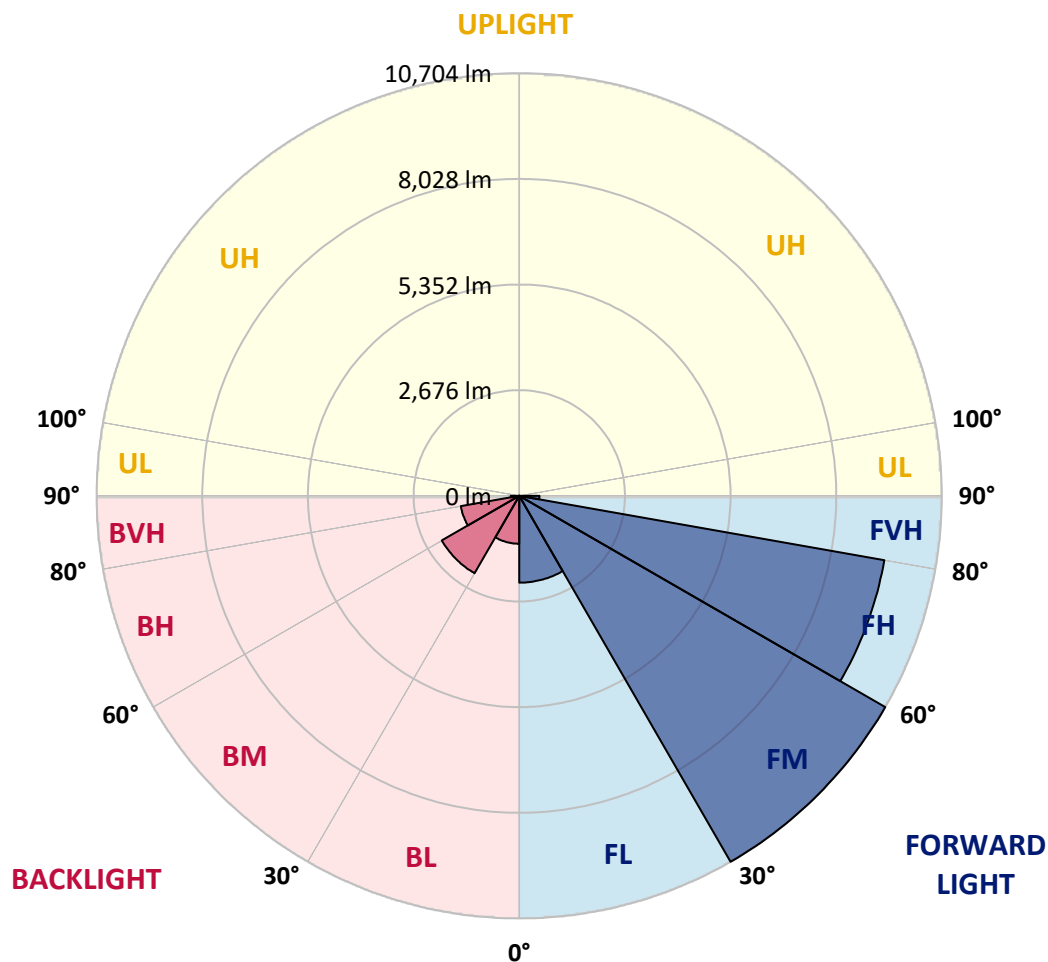
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2200.9	7.9			
FM	(30°-60°)	10704.4	38.2			
FH	(60°-80°)	9389.7	33.5			G4/12000
FVH	(80°-90°)	510.1	1.8			G4/750
BL	(0°-30°)	1214.2	4.3	B3/2500		
BM	(30°-60°)	2264.1	8.1	B2/2500		
BH	(60°-80°)	1502.7	5.4	B3/2500		G3/2500
BVH	(80°-90°)	213.0	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3444.6	3444.6	3444.6	3444.6	3444.6	3444.6	3444.6	3444.6	3444.6	3444.6	3444.6
2.5°	3805.2	3799.4	3779.1	3779.1	3740.6	3707.8	3646.1	3604.6	3555.5	3538.1	3480.3
5°	4173.4	4175.4	4150.3	4133.0	4076.1	4006.7	3901.6	3806.1	3710.7	3672.1	3553.5
7.5°	4482.9	4479.1	4472.3	4457.8	4404.8	4333.5	4191.8	4050.0	3909.3	3851.4	3647.1
10°	4681.5	4690.2	4696.0	4702.7	4680.5	4629.4	4495.4	4322.9	4138.7	4059.7	3758.9
12.5°	4781.8	4797.2	4824.2	4870.5	4907.1	4901.3	4803.9	4620.8	4401.9	4302.6	3898.7
15°	4840.6	4860.8	4903.2	4986.1	5089.3	5148.1	5122.1	4956.3	4712.4	4589.9	4069.3
17.5°	4877.2	4893.6	4959.2	5070.0	5223.3	5379.5	5447.9	5309.1	5063.3	4923.5	4265.0
20°	4902.3	4914.8	4996.8	5126.9	5325.5	5574.2	5765.1	5730.4	5449.9	5268.6	4469.4
22.5°	4958.2	4968.8	5046.9	5178.0	5397.8	5718.8	6070.7	6122.8	5857.7	5652.3	4688.3
25°	5114.4	5114.4	5179.9	5271.5	5477.8	5844.2	6329.1	6559.5	6274.1	6035.1	4890.7
27.5°	5412.3	5409.4	5433.5	5465.3	5621.5	5971.4	6559.5	6945.1	6706.0	6444.8	5087.4
30°	5765.1	5784.4	5787.3	5771.9	5845.1	6130.5	6772.6	7352.0	7140.8	6859.3	5288.9
32.5°	6219.2	6231.7	6217.3	6166.2	6155.6	6356.1	6981.8	7778.1	7611.3	7292.2	5473.0
35°	6795.7	6771.6	6726.3	6622.2	6522.9	6657.8	7220.9	8204.2	8139.6	7815.7	5726.6
37.5°	7413.7	7414.6	7358.7	7122.5	6985.6	7043.5	7550.6	8687.2	8778.8	8438.5	6051.4
40°	7909.2	7935.2	7969.9	7659.5	7482.1	7562.1	7969.9	9247.3	9534.6	9176.9	6474.7
42.5°	8255.3	8285.2	8383.5	8188.8	8004.6	8153.1	8463.5	9845.0	10383.0	10029.2	6970.2
45°	8621.6	8638.0	8707.4	8623.6	8506.0	8840.5	9019.8	10464.0	11280.5	10937.3	7524.5
47.5°	9007.3	9024.6	9096.0	9040.0	8978.3	9482.6	9600.2	11047.2	12140.5	11935.1	8116.5
50°	9483.5	9495.1	9562.6	9461.3	9480.6	9966.5	10118.8	11582.3	13041.9	12831.7	8710.3
52.5°	10133.3	10136.2	10229.7	10138.1	10047.5	10321.3	10565.2	12086.5	13748.5	13649.2	9304.2
55°	10642.3	10673.2	10979.7	10960.5	10908.4	10643.3	10938.3	12566.6	14379.0	14426.3	9934.7
57.5°	10317.4	10437.9	11058.8	11496.5	11922.6	11444.4	11442.5	13107.4	14965.2	15188.9	10627.9
60°	9036.2	9200.1	10115.0	11085.8	12419.1	12838.5	12489.5	13767.8	15557.1	15944.7	11496.5
62.5°	6453.5	6723.4	7963.2	9513.4	11738.5	13762.0	14620.1	14815.8	16362.1	16820.1	12625.4
65°	3262.4	3466.8	4506.0	6373.4	9378.4	13158.5	16935.7	17110.2	17761.0	18167.8	14363.6
67.5°	1982.1	2059.2	2566.3	3544.9	5749.7	10249.9	17691.6	20934.7	20468.1	20684.0	16842.2
70°	1460.6	1517.4	1833.7	2354.2	3306.7	6014.8	15372.0	23664.0	23357.4	23333.3	18674.0
72°	1137.6	1179.1	1458.6	1902.1	2417.9	3608.5	11141.7	22656.5	24184.6	24063.1	18506.2
72.5°	1078.8	1115.4	1369.9	1790.3	2284.8	3271.1	10017.6	21976.8	24124.8	24069.8	18289.3
75°	849.3	875.4	1014.2	1384.4	1788.3	1855.8	5489.4	17031.2	21401.3	22291.1	16449.9
77.5°	702.8	706.7	779.9	1007.4	1394.0	1312.1	2696.5	11816.6	15324.8	16303.3	11652.7
80°	572.7	577.5	612.2	706.7	1054.7	970.8	1280.3	6794.7	8580.2	8590.8	5541.5
82.5°	456.0	457.0	495.5	516.7	757.8	694.1	733.7	3190.1	3749.3	3606.6	1991.8
85°	321.0	314.3	484.0	424.2	495.5	445.4	404.9	1262.9	1550.2	1482.7	623.8
87.5°	107.0	110.9	215.0	274.8	289.2	252.6	180.3	484.0	585.2	580.4	197.6
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°	3444.6	3444.6	3444.6	3444.6	3444.6	3444.6	3444.6	3444.6	3444.6	3444.6	3444.6
2.5°	3462.0	3431.1	3385.8	3335.7	3296.1	3255.7	3225.8	3210.3	3193.0	3178.5	3195.9
5°	3498.6	3440.8	3344.3	3249.9	3180.5	3118.8	3074.4	3051.3	3030.1	3015.6	3017.5
7.5°	3558.4	3464.9	3302.9	3165.0	3068.6	3002.1	2956.8	2941.4	2927.9	2924.0	2928.8
10°	3622.0	3484.1	3247.9	3064.8	2954.9	2899.9	2879.7	2890.3	2899.9	2908.6	2918.2
12.5°	3694.3	3501.5	3167.9	2947.1	2853.6	2832.4	2852.7	2898.9	2932.7	2952.9	2965.5
15°	3788.8	3516.9	3075.4	2829.5	2766.9	2791.0	2859.4	2939.4	2998.2	3035.8	3041.6
17.5°	3875.5	3515.9	2956.8	2711.0	2696.5	2766.9	2870.0	2982.8	3061.9	3114.9	3125.5
20°	3965.2	3489.9	2818.9	2595.3	2625.2	2740.8	2874.8	3010.8	3106.2	3167.9	3182.4
22.5°	4049.1	3444.6	2667.6	2490.2	2565.4	2706.1	2856.5	2994.4	3089.8	3140.0	3155.4
25°	4106.0	3365.6	2514.3	2401.5	2512.4	2663.7	2796.8	2907.6	2979.0	3004.0	3007.9
27.5°	4134.9	3262.4	2369.7	2324.4	2457.4	2594.3	2685.9	2740.8	2761.1	2759.2	2755.3
30°	4138.7	3126.5	2245.3	2261.7	2393.8	2492.1	2535.5	2524.9	2498.9	2454.5	2458.4
32.5°	4126.2	2973.2	2141.2	2201.9	2312.8	2367.7	2369.7	2318.6	2249.2	2178.8	2159.5
35°	4130.1	2822.8	2049.6	2134.4	2214.5	2238.6	2216.4	2141.2	2046.7	1956.1	1936.8
37.5°	4172.5	2691.7	1970.6	2056.4	2105.5	2111.3	2079.5	2000.4	1931.0	1842.3	1834.6
40°	4273.7	2598.2	1895.4	1968.6	1996.6	1999.5	1954.2	1898.2	1904.0	1856.8	1855.8
42.5°	4455.9	2557.7	1828.8	1877.0	1894.4	1900.2	1865.5	1829.8	1879.9	1849.1	1838.5
45°	4691.1	2567.3	1772.9	1787.4	1819.2	1846.2	1825.0	1781.6	1800.9	1666.9	1622.5
47.5°	4963.0	2629.0	1728.6	1710.3	1765.2	1816.3	1783.5	1718.0	1649.5	1516.5	1491.4
50°	5281.2	2724.5	1688.1	1634.1	1706.4	1775.8	1743.0	1649.5	1546.4	1481.8	1473.1
52.5°	5612.8	2841.1	1647.6	1550.2	1632.2	1745.0	1728.6	1634.1	1506.8	1443.2	1431.6
55°	5988.8	2958.7	1596.5	1452.8	1552.1	1730.5	1721.8	1578.2	1476.9	1441.3	1432.6
57.5°	6456.3	3092.7	1529.0	1351.6	1476.9	1678.4	1651.4	1544.4	1446.1	1419.1	1416.2
60°	7065.6	3290.4	1431.6	1243.6	1385.4	1598.4	1592.6	1495.3	1396.9	1377.7	1373.8
62.5°	7979.6	3617.2	1297.6	1135.7	1283.2	1462.5	1515.5	1428.7	1344.9	1343.9	1345.8
65°	9396.8	4108.8	1152.1	1041.2	1180.0	1347.8	1425.9	1360.3	1291.8	1311.1	1314.0
67.5°	11039.5	4516.6	1009.4	948.6	1074.9	1238.8	1344.9	1291.8	1221.5	1271.6	1272.6
70°	11586.1	4152.2	884.0	857.1	966.0	1133.7	1257.1	1216.7	1145.3	1195.4	1190.6
72°	10782.1	3352.1	803.1	787.6	884.0	1047.0	1179.1	1146.3	1075.9	1109.6	1097.1
72.5°	10528.6	3195.9	782.8	770.3	861.9	1024.8	1158.8	1128.9	1058.5	1087.5	1075.9
75°	9391.9	2775.5	672.9	675.8	752.0	916.8	1045.0	1035.4	963.1	966.0	962.1
77.5°	6812.1	2035.1	566.9	586.2	640.1	806.0	930.3	924.5	845.5	831.0	828.1
80°	3161.2	1038.3	461.8	470.5	526.4	673.9	793.4	785.7	722.1	703.8	693.2
82.5°	1082.6	493.6	347.1	352.8	407.8	542.8	688.3	683.5	630.5	594.8	572.7
85°	386.6	245.8	242.9	237.2	291.1	427.1	599.6	573.6	495.5	422.3	420.3
87.5°	125.3	105.1	125.3	124.4	169.7	289.2	435.8	371.2	359.6	298.9	293.1
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)