

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: P318249

Luminaire Tested: **GAN-SA5C-830-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318249
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-SA5C-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27568 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

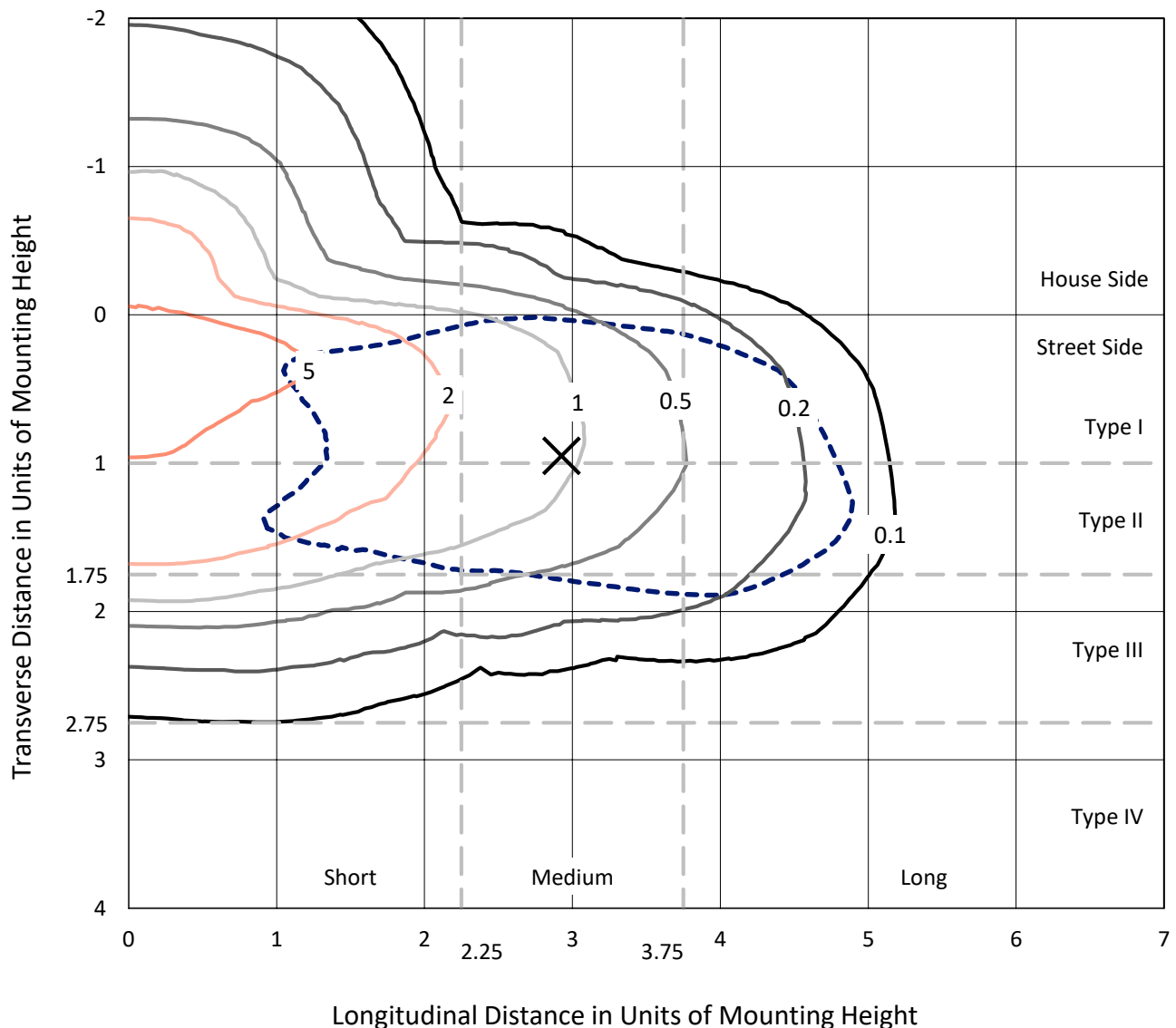
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

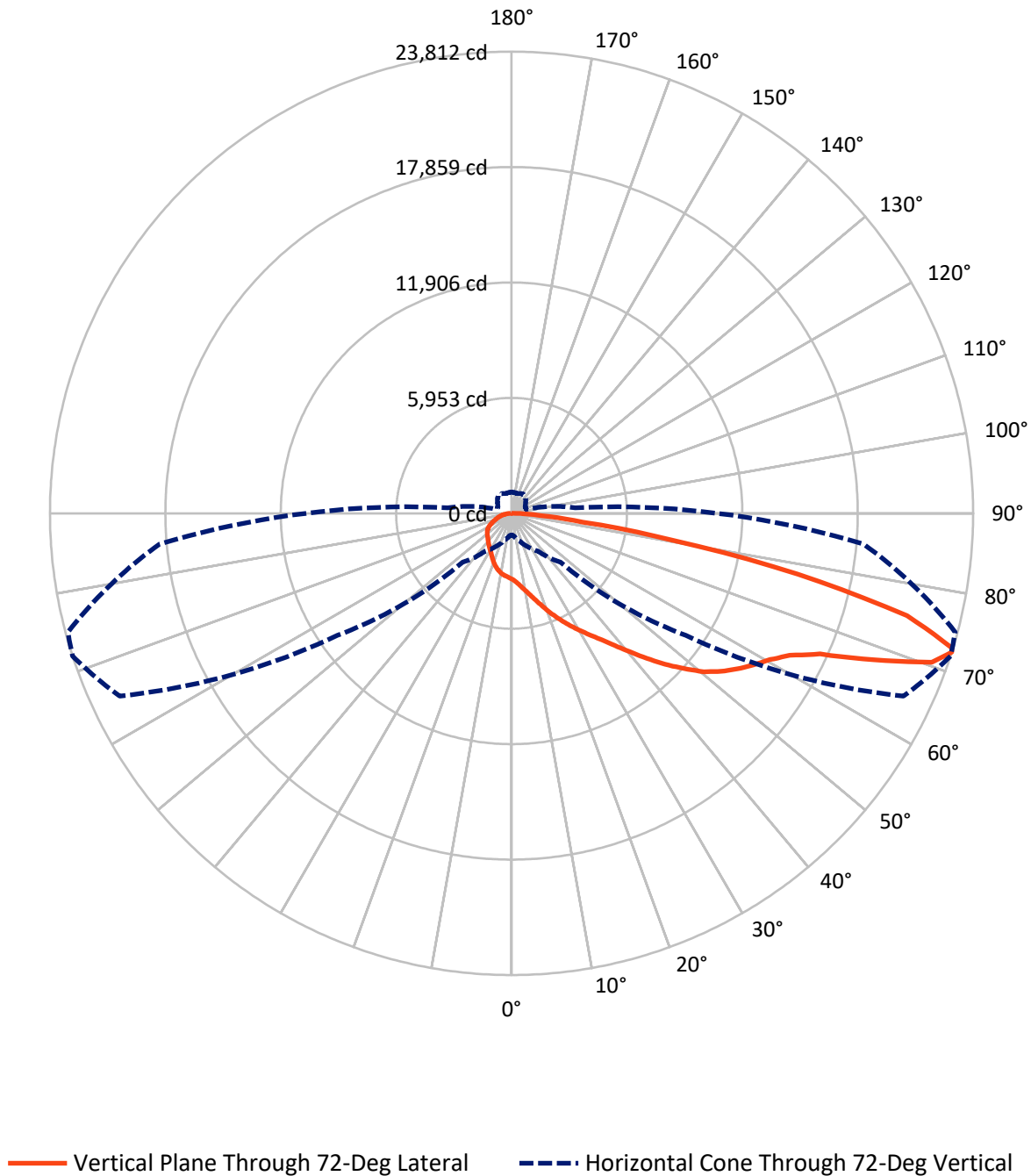
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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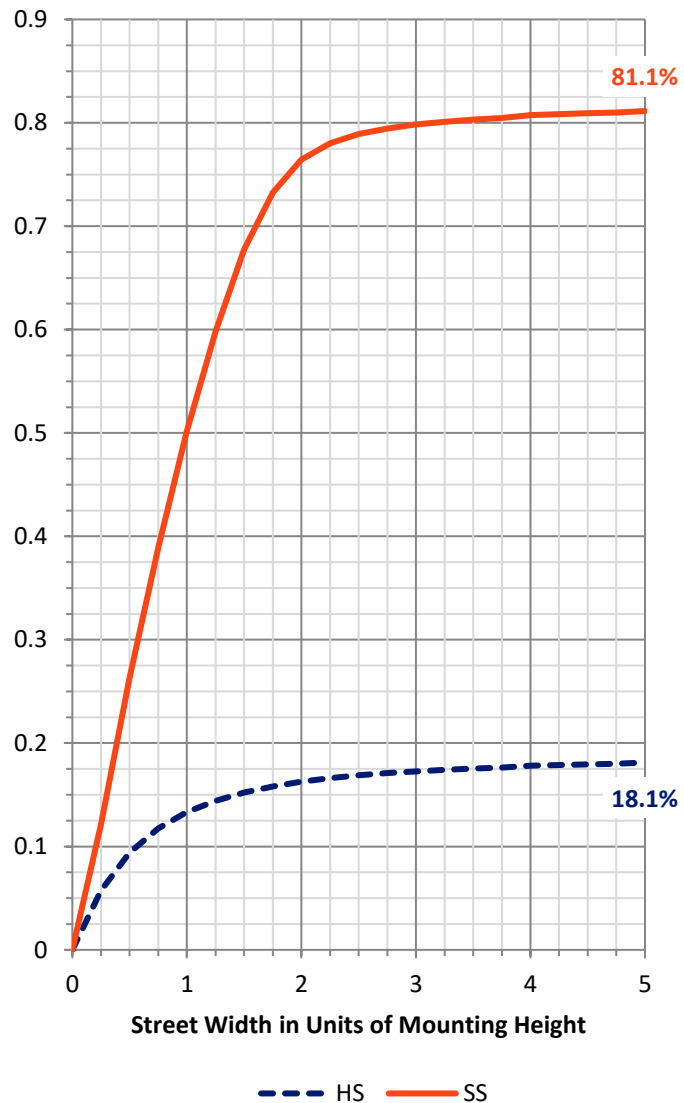
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5114.0	0.0	5114.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	22454.0	0.0	22454.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	27568.0	0.0	27568.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.8	1.2
10°-20°	1098.2	4.0
20°-30°	1924.4	7.0
30°-40°	2853.3	10.4
40°-50°	4173.2	15.1
50°-60°	5742.3	20.8
60°-70°	6392.9	23.2
70°-80°	4331.8	15.7
80°-90°	712.0	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°	27568.0	100.0
0°-180°	27568.0	100.0

Coefficient of Utilization



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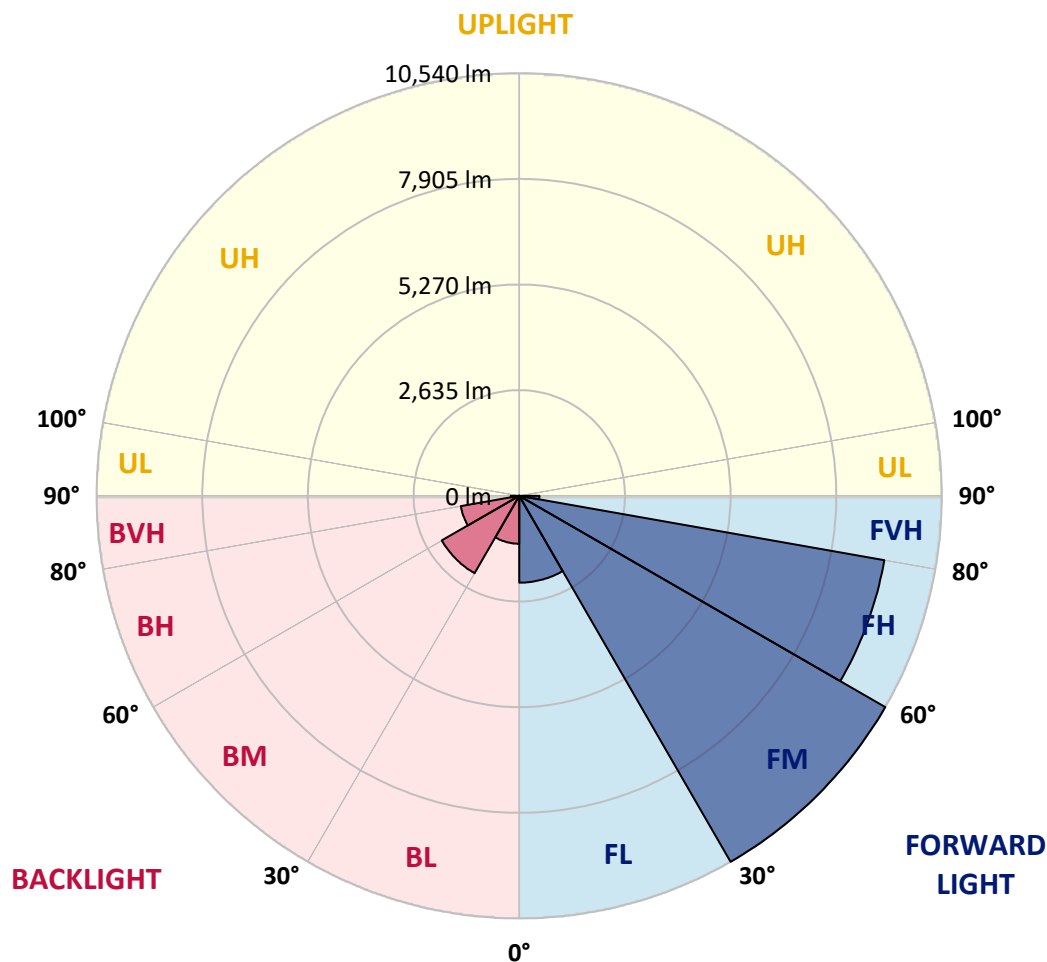
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2167.0	7.9			
FM	(30°-60°)	10539.6	38.2			
FH	(60°-80°)	9245.1	33.5			G4/12000
FVH	(80°-90°)	502.2	1.8			G4/750
BL	(0°-30°)	1195.5	4.3	B3/2500		
BM	(30°-60°)	2229.2	8.1	B2/2500		
BH	(60°-80°)	1479.6	5.4	B3/2500		G3/2500
BVH	(80°-90°)	209.8	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°	3391.6	3391.6	3391.6	3391.6	3391.6	3391.6	3391.6	3391.6	3391.6	3391.6	3391.6
2.5°	3746.6	3740.9	3721.0	3721.0	3683.0	3650.7	3590.0	3549.2	3500.7	3483.7	3426.7
5°	4109.2	4111.1	4086.4	4069.3	4013.3	3945.0	3841.5	3747.5	3653.6	3615.6	3498.8
7.5°	4413.9	4410.1	4403.5	4389.2	4337.0	4266.8	4127.2	3987.7	3849.1	3792.2	3590.9
10°	4609.4	4618.0	4623.7	4630.3	4608.5	4558.2	4426.2	4256.3	4075.0	3997.2	3701.0
12.5°	4708.2	4723.3	4749.9	4795.5	4831.6	4825.9	4730.0	4549.6	4334.2	4236.4	3838.7
15°	4766.1	4786.0	4827.8	4909.4	5011.0	5068.9	5043.2	4880.0	4639.8	4519.3	4006.7
17.5°	4802.1	4818.3	4882.8	4992.0	5142.9	5296.7	5364.1	5227.4	4985.3	4847.7	4199.4
20°	4826.8	4839.2	4919.8	5048.0	5243.5	5488.4	5676.4	5642.2	5366.0	5187.5	4400.6
22.5°	4881.9	4892.3	4969.2	5098.3	5314.7	5630.8	5977.3	6028.5	5767.5	5565.3	4616.1
25°	5035.6	5035.6	5100.2	5190.4	5393.5	5754.2	6231.7	6458.5	6177.6	5942.2	4815.4
27.5°	5329.0	5326.1	5349.8	5381.2	5534.9	5879.5	6458.5	6838.2	6602.8	6345.6	5009.1
30°	5676.4	5695.4	5698.2	5683.0	5755.2	6036.1	6668.3	7238.8	7030.9	6753.7	5207.5
32.5°	6123.5	6135.8	6121.6	6071.2	6060.8	6258.2	6874.3	7658.4	7494.1	7179.9	5388.8
35°	6691.1	6667.4	6622.7	6520.2	6422.5	6555.4	7109.7	8077.9	8014.3	7695.4	5638.4
37.5°	7299.5	7300.5	7245.4	7012.9	6878.1	6935.0	7434.3	8553.5	8643.6	8308.6	5958.3
40°	7787.4	7813.1	7847.2	7541.6	7366.9	7445.7	7847.2	9105.0	9387.8	9035.7	6375.0
42.5°	8128.2	8157.6	8254.5	8062.7	7881.4	8027.6	8333.3	9693.5	10223.2	9874.8	6862.9
45°	8488.9	8505.1	8573.4	8490.8	8375.0	8704.4	8881.0	10302.9	11106.9	10769.0	7408.7
47.5°	8868.6	8885.7	8955.9	8900.9	8840.1	9336.6	9452.4	10877.2	11953.6	11751.4	7991.5
50°	9337.5	9348.9	9415.4	9315.7	9334.7	9813.1	9963.1	11404.0	12841.1	12634.2	8576.3
52.5°	9977.3	9980.2	10072.2	9982.1	9892.8	10162.4	10402.6	11900.4	13536.9	13439.1	9161.0
55°	10478.5	10508.9	10810.7	10791.7	10740.5	10479.5	10769.9	12373.2	14157.7	14204.2	9781.8
57.5°	10158.6	10277.3	10888.6	11319.5	11739.1	11268.3	11266.4	12905.7	14734.8	14955.0	10464.3
60°	8897.1	9058.5	9959.3	10915.1	12227.9	12640.8	12297.2	13555.9	15317.7	15699.2	11319.5
62.5°	6354.1	6619.9	7840.6	9367.0	11557.8	13550.2	14395.0	14587.7	16110.3	16561.1	12431.1
65°	3212.2	3413.4	4436.7	6275.3	9234.1	12956.0	16675.0	16846.9	17487.6	17888.2	14142.5
67.5°	1951.6	2027.5	2526.8	3490.3	5661.2	10092.2	17419.2	20612.4	20153.0	20365.6	16583.0
70°	1438.1	1494.1	1805.4	2318.0	3255.8	5922.2	15135.4	23299.7	22997.8	22974.1	18386.5
72°	1120.1	1160.9	1436.2	1872.8	2380.7	3553.0	10970.2	22307.8	23812.3	23692.7	18221.3
72.5°	1062.2	1098.3	1348.8	1762.7	2249.7	3220.7	9863.4	21638.5	23753.4	23699.3	18007.8
75°	836.3	861.9	998.6	1363.1	1760.8	1827.3	5404.9	16769.0	21071.9	21948.0	16196.6
77.5°	692.0	695.8	767.9	991.9	1372.6	1291.9	2655.0	11634.7	15088.9	16052.4	11473.3
80°	563.8	568.6	602.8	695.8	1038.5	955.9	1260.6	6690.1	8448.1	8458.5	5456.1
82.5°	449.0	449.9	487.9	508.8	746.1	683.4	722.4	3141.0	3691.5	3551.1	1961.1
85°	316.1	309.4	476.5	417.7	487.9	438.5	398.7	1243.5	1526.4	1459.9	614.1
87.5°	105.4	109.2	211.7	270.5	284.8	248.7	177.5	476.5	576.2	571.4	194.6
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°	3391.6	3391.6	3391.6	3391.6	3391.6	3391.6	3391.6	3391.6	3391.6	3391.6	3391.6
2.5°	3408.7	3378.3	3333.7	3284.3	3245.4	3205.5	3176.1	3160.9	3143.8	3129.6	3146.7
5°	3444.7	3387.8	3292.9	3199.8	3131.5	3070.7	3027.1	3004.3	2983.4	2969.2	2971.1
7.5°	3503.6	3411.5	3252.0	3116.3	3021.4	2955.9	2911.3	2896.1	2882.8	2879.0	2883.7
10°	3566.2	3430.5	3197.9	3017.6	2909.4	2855.3	2835.3	2845.8	2855.3	2863.8	2873.3
12.5°	3637.4	3447.6	3119.2	2901.8	2809.7	2788.8	2808.8	2854.3	2887.5	2907.5	2919.8
15°	3730.5	3462.8	3028.0	2786.0	2724.3	2748.0	2815.4	2894.2	2952.1	2989.1	2994.8
17.5°	3815.9	3461.8	2911.3	2669.2	2655.0	2724.3	2825.8	2936.9	3014.7	3066.9	3077.4
20°	3904.2	3436.2	2775.5	2555.3	2584.7	2698.6	2830.6	2964.4	3058.4	3119.2	3133.4
22.5°	3986.7	3391.6	2626.5	2451.8	2525.9	2664.5	2812.6	2948.3	3042.3	3091.6	3106.8
25°	4042.8	3313.7	2475.6	2364.5	2473.7	2622.7	2753.7	2862.9	2933.1	2957.8	2961.6
27.5°	4071.2	3212.2	2333.2	2288.6	2419.6	2554.4	2644.5	2698.6	2718.6	2716.7	2712.9
30°	4075.0	3078.3	2210.7	2226.9	2356.9	2453.7	2496.5	2486.0	2460.4	2416.7	2420.5
32.5°	4062.7	2927.4	2108.2	2168.0	2277.2	2331.3	2333.2	2282.9	2214.5	2145.2	2126.3
35°	4066.5	2779.3	2018.1	2101.6	2180.4	2204.1	2182.3	2108.2	2015.2	1926.0	1907.0
37.5°	4108.2	2650.2	1940.2	2024.7	2073.1	2078.8	2047.5	1969.6	1901.3	1814.0	1806.4
40°	4207.9	2558.2	1866.2	1938.3	1965.8	1968.7	1924.1	1869.0	1874.7	1828.2	1827.3
42.5°	4387.3	2518.3	1800.7	1848.1	1865.2	1870.9	1836.8	1801.6	1851.0	1820.6	1810.2
45°	4618.9	2527.8	1745.6	1759.9	1791.2	1817.8	1796.9	1754.2	1773.2	1641.2	1597.5
47.5°	4886.6	2588.5	1702.0	1683.9	1738.0	1788.3	1756.1	1691.5	1624.1	1493.1	1468.5
50°	5199.9	2682.5	1662.1	1608.9	1680.1	1748.5	1716.2	1624.1	1522.6	1459.0	1450.4
52.5°	5526.4	2797.4	1622.2	1526.4	1607.0	1718.1	1702.0	1608.9	1483.6	1421.0	1409.6
55°	5896.6	2913.2	1571.9	1430.5	1528.3	1703.9	1695.3	1553.9	1454.2	1419.1	1410.5
57.5°	6357.0	3045.1	1505.5	1330.8	1454.2	1652.6	1626.0	1520.7	1423.8	1397.3	1394.4
60°	6956.9	3239.7	1409.6	1224.5	1364.0	1573.8	1568.1	1472.2	1375.4	1356.4	1352.6
62.5°	7856.7	3561.5	1277.7	1118.2	1263.4	1440.0	1492.2	1406.8	1324.2	1323.2	1325.1
65°	9252.1	4045.6	1134.3	1025.2	1161.9	1327.0	1403.9	1339.4	1272.0	1290.9	1293.8
67.5°	10869.6	4447.1	993.8	934.0	1058.4	1219.8	1324.2	1272.0	1202.7	1252.0	1253.0
70°	11407.8	4088.3	870.4	843.9	951.1	1116.3	1237.8	1197.9	1127.7	1177.0	1172.3
72°	10616.1	3300.5	790.7	775.5	870.4	1030.9	1160.9	1128.6	1059.3	1092.6	1080.2
72.5°	10366.5	3146.7	770.8	758.4	848.6	1009.0	1141.0	1111.5	1042.2	1070.7	1059.3
75°	9247.4	2732.8	662.6	665.4	740.4	902.7	1029.0	1019.5	948.3	951.1	947.3
77.5°	6707.2	2003.8	558.1	577.1	630.3	793.6	916.0	910.3	832.5	818.2	815.4
80°	3112.5	1022.3	454.7	463.2	518.3	663.5	781.2	773.6	711.0	692.9	682.5
82.5°	1066.0	486.0	341.7	347.4	401.5	534.4	677.7	673.0	620.8	585.7	563.8
85°	380.6	242.1	239.2	233.5	286.7	420.5	590.4	564.8	487.9	415.8	413.9
87.5°	123.4	103.5	123.4	122.5	167.1	284.8	429.0	365.5	354.1	294.3	288.6
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)