

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: P317610

Luminaire Tested: **GAN-SA6C-830-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6C-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35022 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

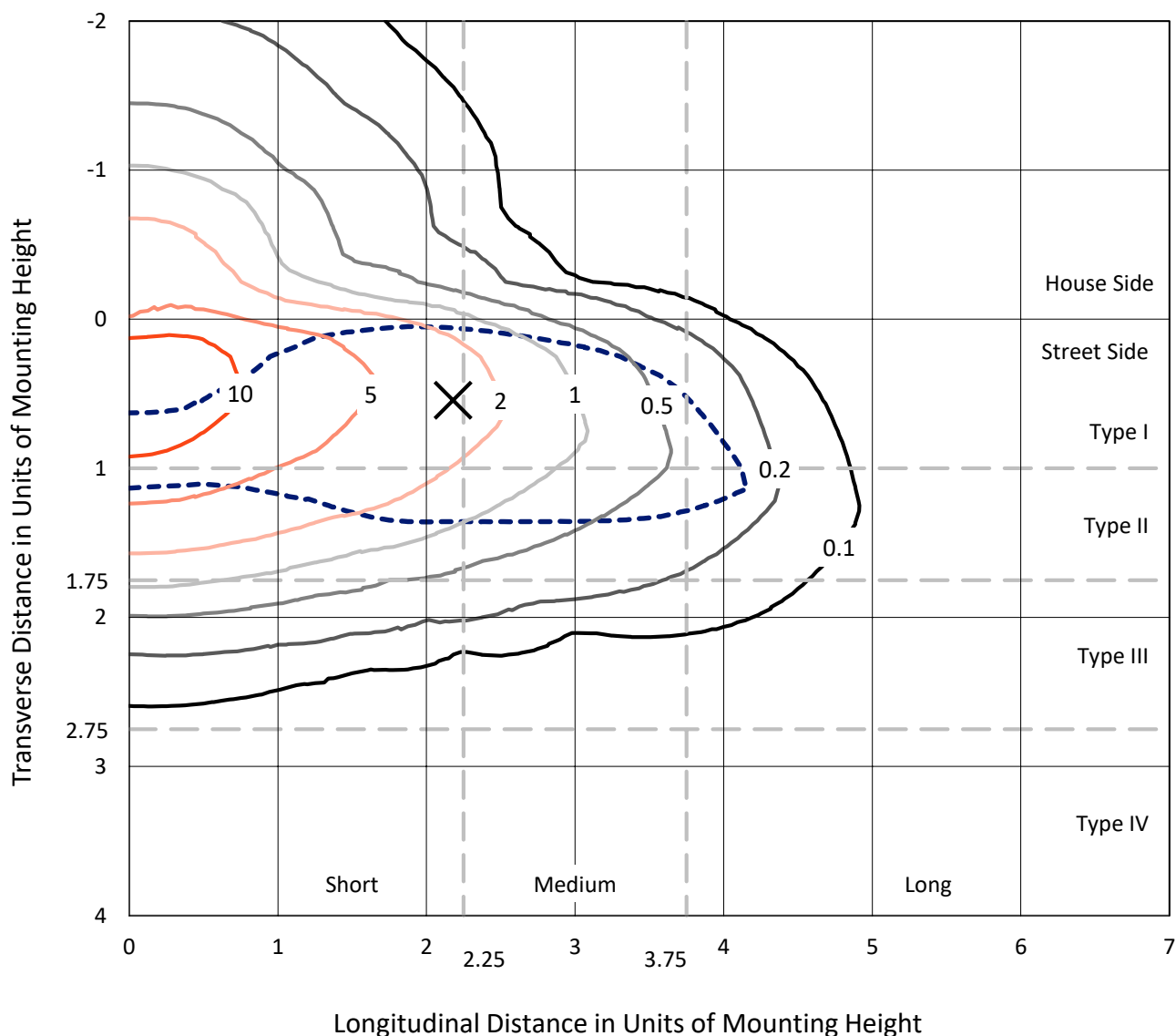
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

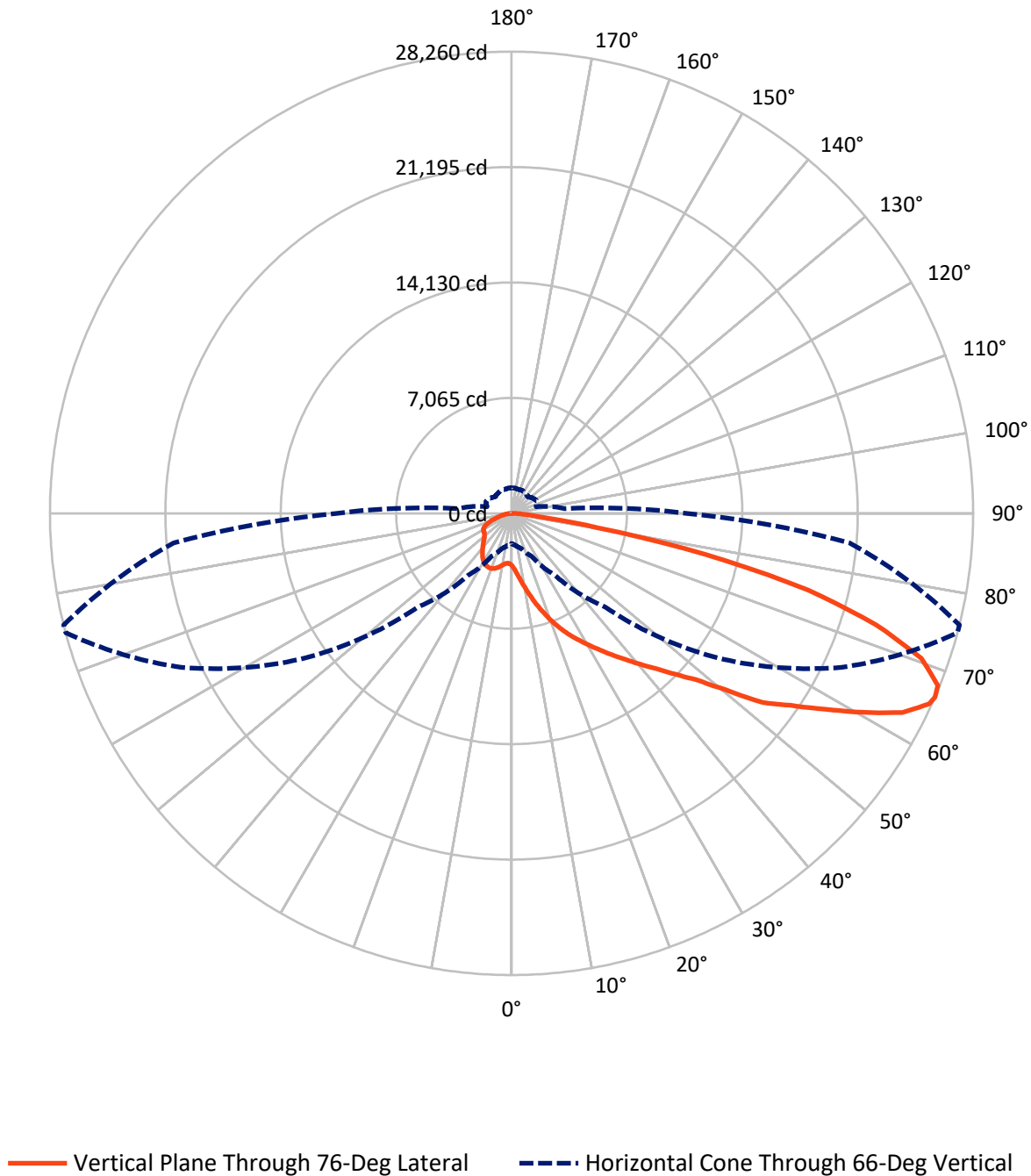
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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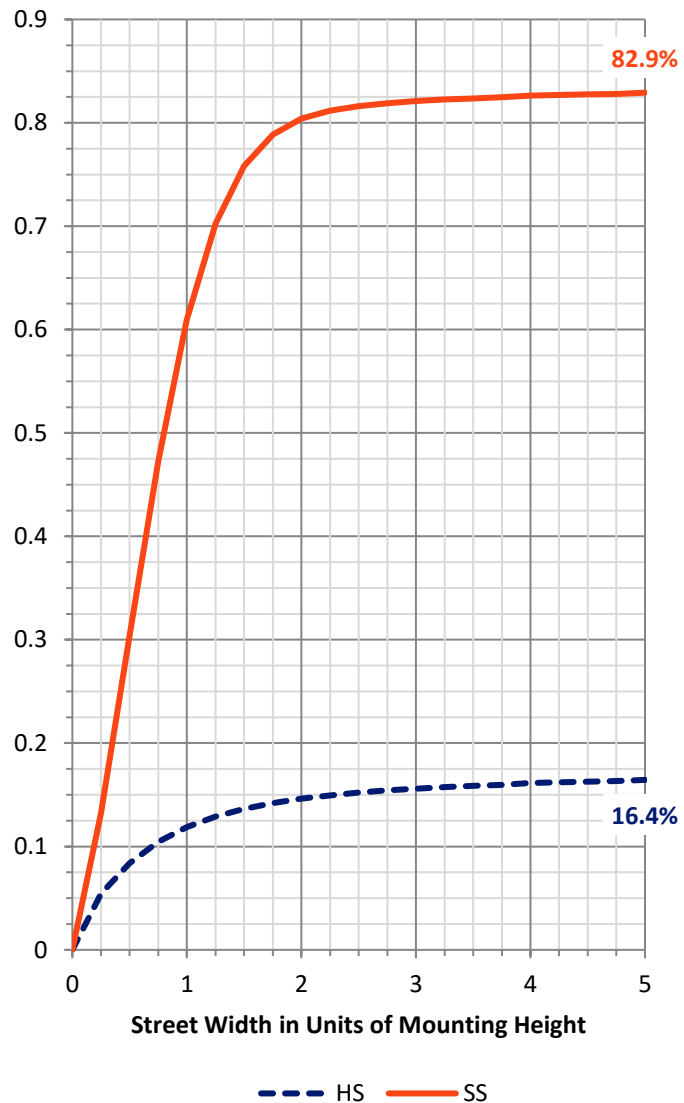
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5893.0	0.0	5893.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	29129.0	0.0	29129.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	35022.0	0.0	35022.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.8	1.1
10°-20°	1527.3	4.4
20°-30°	2967.9	8.5
30°-40°	4844.3	13.8
40°-50°	6618.4	18.9
50°-60°	7709.2	22.0
60°-70°	6911.4	19.7
70°-80°	3492.7	10.0
80°-90°	564.0	1.6
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°	35022.0	100.0
0°-180°	35022.0	100.0

Coefficient of Utilization



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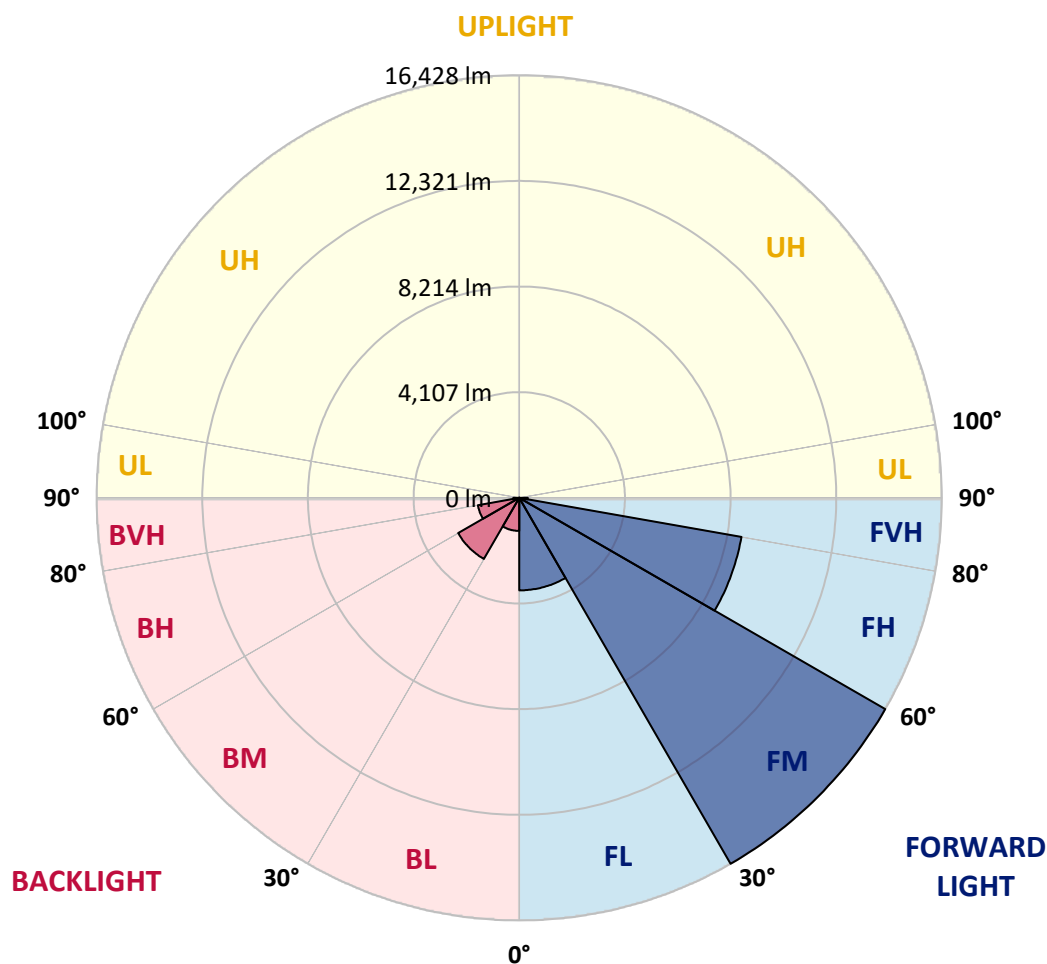
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3596.7	10.3			
FM	(30°-60°)	16427.7	46.9			
FH	(60°-80°)	8771.5	25.0			G4/12000
FVH	(80°-90°)	333.1	1.0			G3/500
BL	(0°-30°)	1285.3	3.7	B3/2500		
BM	(30°-60°)	2744.1	7.8	B3/5000		
BH	(60°-80°)	1632.6	4.7	B3/2500		G3/2500
BVH	(80°-90°)	230.9	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3
2.5°	4245.8	4181.6	4175.6	4081.7	4060.3	3880.8	3748.8	3610.9	3453.9	3423.0	3299.4
5°	5453.8	5447.8	5365.8	5212.4	5092.3	4785.6	4482.4	4161.4	3809.4	3752.4	3474.1
7.5°	6540.5	6530.9	6467.9	6302.7	6129.1	5752.2	5319.4	4827.2	4256.5	4172.1	3710.7
10°	7365.6	7362.0	7340.6	7219.4	7071.9	6710.5	6232.5	5560.8	4776.0	4660.7	4006.8
12.5°	8002.9	8010.0	8024.3	7981.5	7911.3	7603.4	7113.5	6338.3	5330.1	5216.0	4336.1
15°	8434.5	8455.9	8529.6	8590.2	8627.1	8438.0	7963.6	7133.8	5950.7	5814.0	4701.1
17.5°	8652.1	8675.8	8803.0	8986.1	9155.0	9136.0	8759.1	7892.3	6546.4	6414.4	5093.5
20°	8839.9	8857.7	9000.4	9220.4	9518.8	9650.8	9439.1	8622.3	7199.1	7042.2	5509.6
22.5°	9384.4	9407.0	9449.8	9574.7	9838.6	10081.2	9978.9	9313.1	7797.2	7650.9	5904.4
25°	10435.5	10462.8	10370.1	10264.3	10314.2	10483.0	10502.1	9943.3	8403.6	8238.3	6328.8
27.5°	11701.7	11741.0	11582.8	11310.6	11072.8	11007.4	10984.8	10459.3	8982.6	8791.2	6748.5
30°	12941.8	13009.6	12803.9	12450.8	12014.4	11707.7	11480.6	10964.6	9553.3	9370.2	7144.5
32.5°	14153.4	14126.0	13827.6	13482.8	12971.5	12587.5	12038.2	11506.7	10195.3	9984.9	7538.0
35°	14983.3	14992.8	14715.7	14306.7	13819.3	13524.4	12784.9	12091.7	10850.4	10656.6	7985.0
37.5°	15689.5	15645.5	15331.6	14950.0	14530.3	14404.2	13658.8	12736.1	11560.2	11348.6	8460.6
40°	15924.9	15873.8	15668.1	15393.4	15057.0	15046.3	14623.0	13466.1	12362.8	12153.5	8996.8
42.5°	15782.2	15716.8	15632.4	15557.5	15454.1	15501.6	15529.0	14322.2	13245.0	13010.8	9617.5
45°	15255.5	15156.8	15216.3	15379.2	15603.9	15872.6	16347.0	15269.8	14233.0	14036.8	10346.3
47.5°	14445.8	14356.7	14542.2	14890.5	15501.6	16181.7	17121.0	16316.1	15412.5	15217.5	11384.3
50°	13306.8	13333.0	13598.1	14231.8	15155.7	16324.4	18074.5	17701.2	17126.9	16945.0	12800.3
52.5°	11437.8	11442.5	12189.2	13229.5	14542.2	16250.7	18603.6	19471.6	19468.0	19248.0	14148.6
55°	9701.9	9807.7	10398.6	11781.4	13548.2	15955.8	18973.4	20332.4	21005.3	20747.3	15405.3
57.5°	8006.4	8068.3	8628.3	10017.0	12129.8	15169.9	19352.7	21365.6	22776.9	22614.0	16967.6
60°	6078.0	6173.1	6752.1	8035.0	10315.4	13775.3	19388.3	22444.0	24894.4	24730.3	18711.8
62.5°	3945.0	4109.0	4651.2	5853.2	8120.6	11769.5	18560.8	23149.0	26901.4	26843.1	20259.9
65°	2267.3	2391.0	2767.9	3695.3	5602.4	9251.3	16593.1	22877.9	28136.7	28103.4	20838.9
66°	1852.4	1929.7	2218.6	2888.0	4622.7	8124.2	15449.3	22306.1	28259.2	28260.4	20772.3
67.5°	1481.4	1515.9	1645.5	2067.6	3411.1	6439.4	13405.5	21044.6	28107.0	28148.6	20343.1
70°	1225.8	1243.7	1284.1	1386.3	1861.9	3883.1	9515.2	17766.6	26579.2	26611.3	18667.8
72.5°	1099.8	1110.5	1125.9	1140.2	1313.8	2169.8	5811.6	14212.8	23303.6	23345.2	16115.1
75°	996.3	1002.3	999.9	1001.1	1102.2	1382.8	3003.3	10611.5	18842.6	18759.4	12345.0
77.5°	875.1	881.0	869.1	871.5	974.9	1062.9	1494.5	7428.6	12715.9	12128.6	6955.4
80°	739.5	744.3	739.5	747.9	848.9	802.5	869.1	4179.2	5622.6	5318.2	2473.0
82.5°	558.8	579.0	593.3	626.6	699.1	570.7	581.4	1627.7	1712.1	1630.1	758.6
85°	244.9	298.4	447.0	479.2	525.5	342.4	381.7	663.4	696.7	675.3	275.8
87.5°	64.2	70.1	221.1	278.2	291.3	154.6	198.6	302.0	318.6	302.0	91.5
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°	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3	3198.3
2.5°	3234.0	3175.7	3071.1	2978.3	2908.2	2860.6	2813.1	2789.3	2775.0	2760.8	2763.1
5°	3337.4	3219.7	3040.2	2912.9	2841.6	2796.4	2772.7	2763.1	2757.2	2742.9	2742.9
7.5°	3493.2	3326.7	3079.4	2948.6	2892.7	2858.3	2844.0	2839.2	2832.1	2815.5	2817.8
10°	3689.3	3456.3	3161.4	3034.2	2983.1	2945.1	2924.8	2917.7	2904.6	2885.6	2888.0
12.5°	3920.0	3616.8	3269.6	3136.5	3074.6	3023.5	2990.2	2970.0	2947.4	2922.5	2923.6
15°	4172.1	3791.6	3386.2	3228.0	3143.6	3072.3	3018.8	2984.3	2948.6	2917.7	2916.5
17.5°	4427.7	3960.4	3475.3	3278.0	3163.8	3069.9	2997.4	2943.9	2899.9	2861.8	2858.3
20°	4703.5	4112.6	3525.3	3273.2	3125.8	3014.0	2917.7	2851.1	2802.4	2764.3	2758.4
22.5°	4984.1	4255.3	3533.6	3224.5	3041.4	2904.6	2803.6	2729.8	2679.9	2640.7	2626.4
25°	5240.9	4365.9	3499.1	3130.5	2923.6	2776.2	2677.5	2602.6	2562.2	2515.8	2501.6
27.5°	5475.2	4443.1	3430.1	3010.4	2791.7	2646.6	2553.9	2489.7	2445.7	2410.0	2398.1
30°	5685.6	4484.8	3317.2	2867.8	2656.1	2524.2	2445.7	2401.7	2363.6	2318.5	2310.1
32.5°	5885.3	4484.8	3172.1	2712.0	2521.8	2416.0	2369.6	2342.2	2299.4	2255.5	2243.6
35°	6085.1	4457.4	3000.9	2549.1	2398.1	2338.7	2336.3	2304.2	2238.8	2179.4	2163.9
37.5°	6295.5	4401.5	2808.3	2396.9	2297.1	2304.2	2324.4	2253.1	2160.3	2075.9	2053.3
40°	6533.3	4324.2	2608.6	2265.0	2212.7	2288.7	2292.3	2179.4	1998.6	1921.4	1901.1
42.5°	6812.7	4247.0	2423.1	2148.4	2146.1	2242.4	2231.7	2020.0	1911.8	1872.6	1861.9
45°	7180.1	4203.0	2247.1	2037.9	2093.8	2167.5	2128.2	1932.1	1886.9	1864.3	1854.8
47.5°	7759.1	4225.6	2085.4	1949.9	2041.4	2092.6	1935.6	1896.4	1864.3	1836.9	1827.4
50°	8484.4	4212.5	1954.6	1889.3	1982.0	2014.1	1848.8	1850.0	1833.4	1802.5	1788.2
52.5°	9030.1	4110.2	1870.2	1854.8	1929.7	1875.0	1794.1	1804.8	1796.5	1751.3	1735.9
55°	9556.8	4022.2	1827.4	1841.7	1891.6	1701.4	1729.9	1756.1	1747.8	1703.8	1696.6
57.5°	10212.0	4005.6	1801.3	1845.3	1859.5	1614.6	1668.1	1702.6	1696.6	1677.6	1674.1
60°	11014.5	4010.4	1777.5	1851.2	1823.9	1550.4	1609.8	1653.8	1657.4	1653.8	1651.5
62.5°	11455.6	3880.8	1718.0	1834.6	1760.8	1494.5	1549.2	1613.4	1614.6	1621.7	1620.6
65°	11081.1	3493.2	1607.5	1776.3	1655.0	1448.2	1496.9	1567.0	1549.2	1581.3	1581.3
66°	10717.3	3269.6	1552.8	1738.3	1609.8	1430.3	1480.3	1543.3	1520.7	1564.7	1564.7
67.5°	9974.2	2892.7	1454.1	1657.4	1545.6	1405.3	1461.2	1504.0	1473.1	1538.5	1533.8
70°	8616.4	2237.6	1255.5	1474.3	1439.8	1368.5	1435.1	1425.6	1380.4	1480.3	1461.2
72.5°	7264.5	1700.2	1008.2	1234.1	1279.3	1322.1	1398.2	1325.7	1268.6	1338.8	1297.2
75°	5636.9	1278.1	796.6	959.5	1080.8	1249.6	1354.2	1210.4	1128.3	1121.2	1098.6
77.5°	3047.3	877.5	631.3	732.4	858.4	1159.2	1324.5	1086.7	963.1	934.5	916.7
80°	1206.8	570.7	458.9	555.2	600.4	1028.4	1253.2	942.8	794.2	765.7	738.3
82.5°	498.2	337.7	296.1	372.1	391.2	879.8	1124.8	772.8	613.5	848.9	901.2
85°	214.0	185.5	176.0	192.6	221.1	617.1	895.3	589.7	662.2	590.9	469.6
87.5°	64.2	78.5	74.9	73.7	80.8	147.4	476.8	328.2	486.3	184.3	137.9
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)