

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: P199932

Luminaire Tested: **GAP-AF-02-LED-U-AFL-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-AF-02-LED-U-AFL-7030-600
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8121.3 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 66
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: 28.75 FT



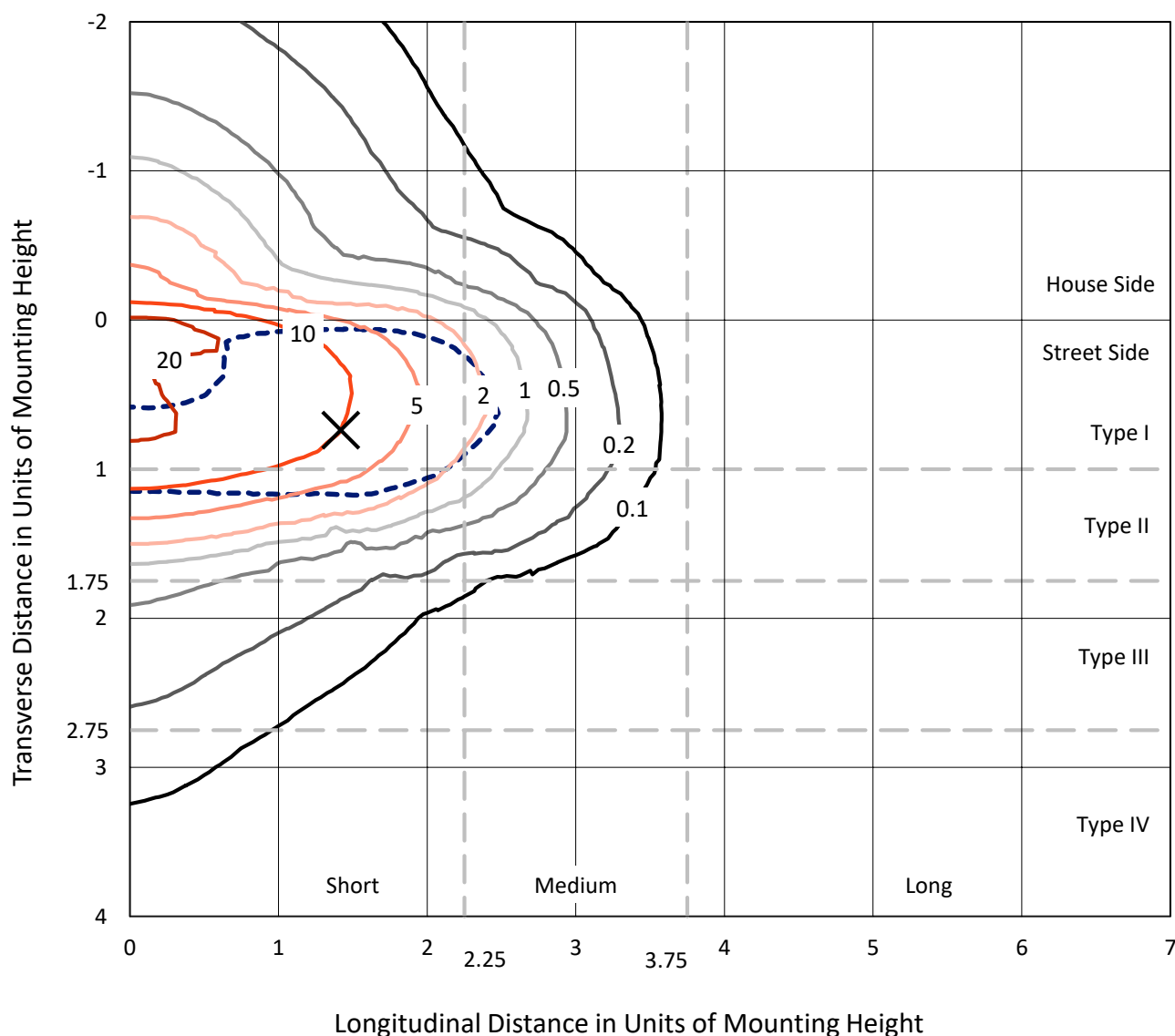
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

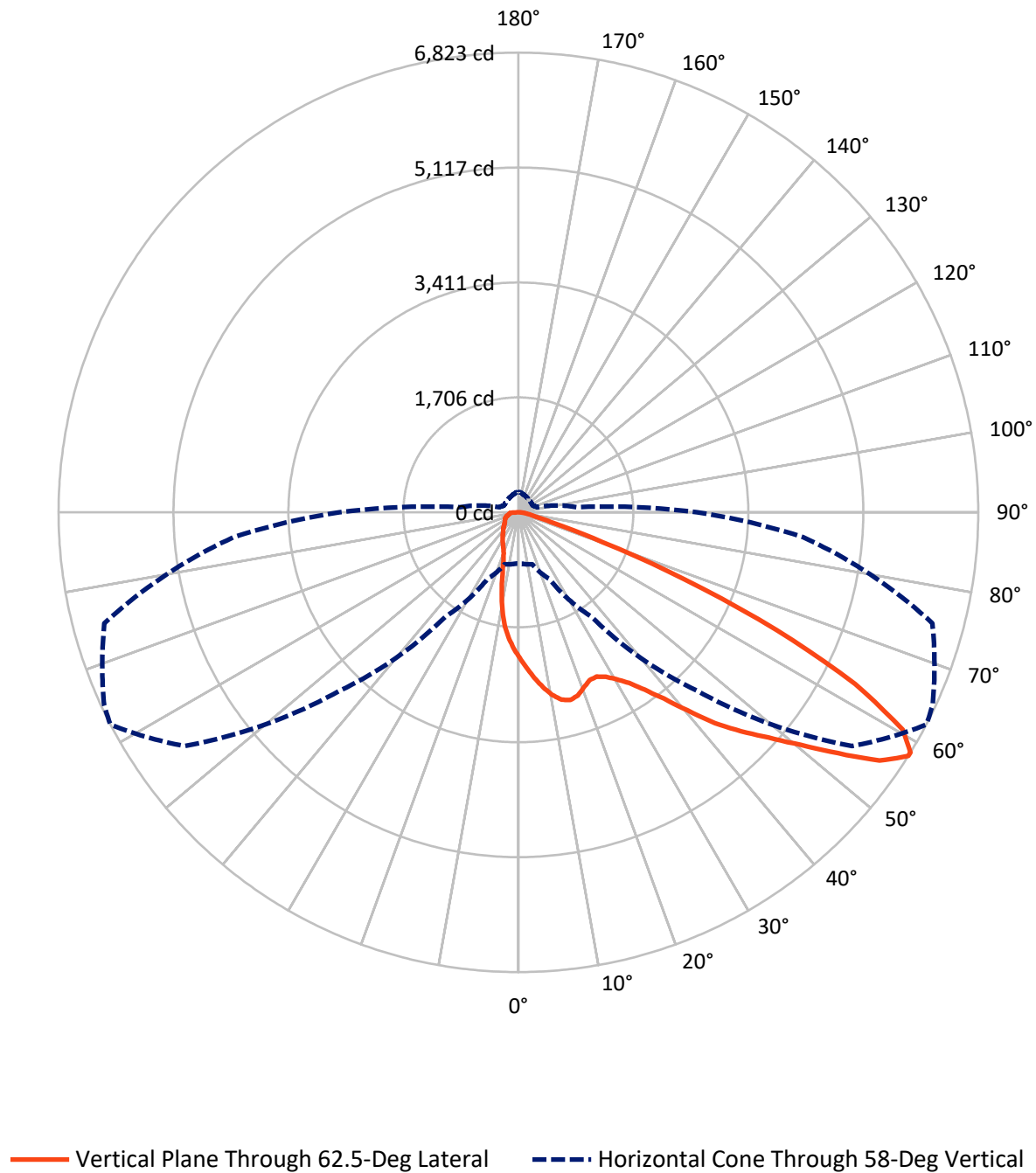


Based on 10 foot mounting height. Maximum calculated value = 26.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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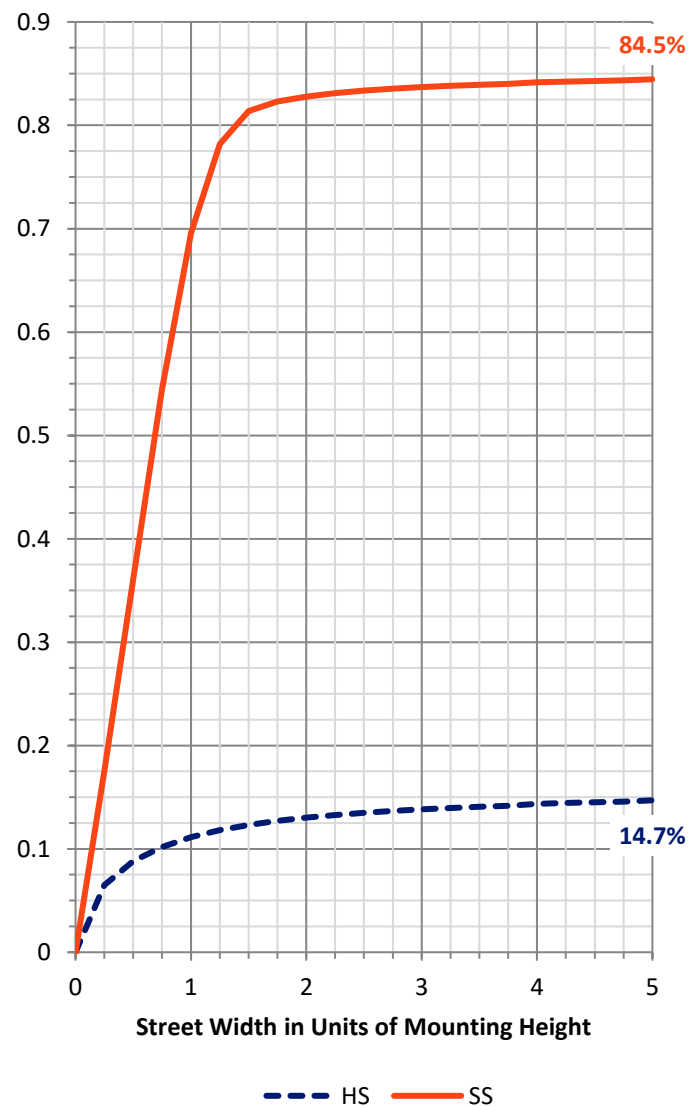
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1238.6	0.0	1238.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	6882.7	0.0	6882.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	8121.3	0.0	8121.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.9	2.4
10°-20°	493.2	6.1
20°-30°	797.2	9.8
30°-40°	1265.6	15.6
40°-50°	1851.8	22.8
50°-60°	1936.8	23.8
60°-70°	1144.3	14.1
70°-80°	322.4	4.0
80°-90°	117.1	1.4
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°	8121.3	100.0
0°-180°	8121.3	100.0

Coefficient of Utilization



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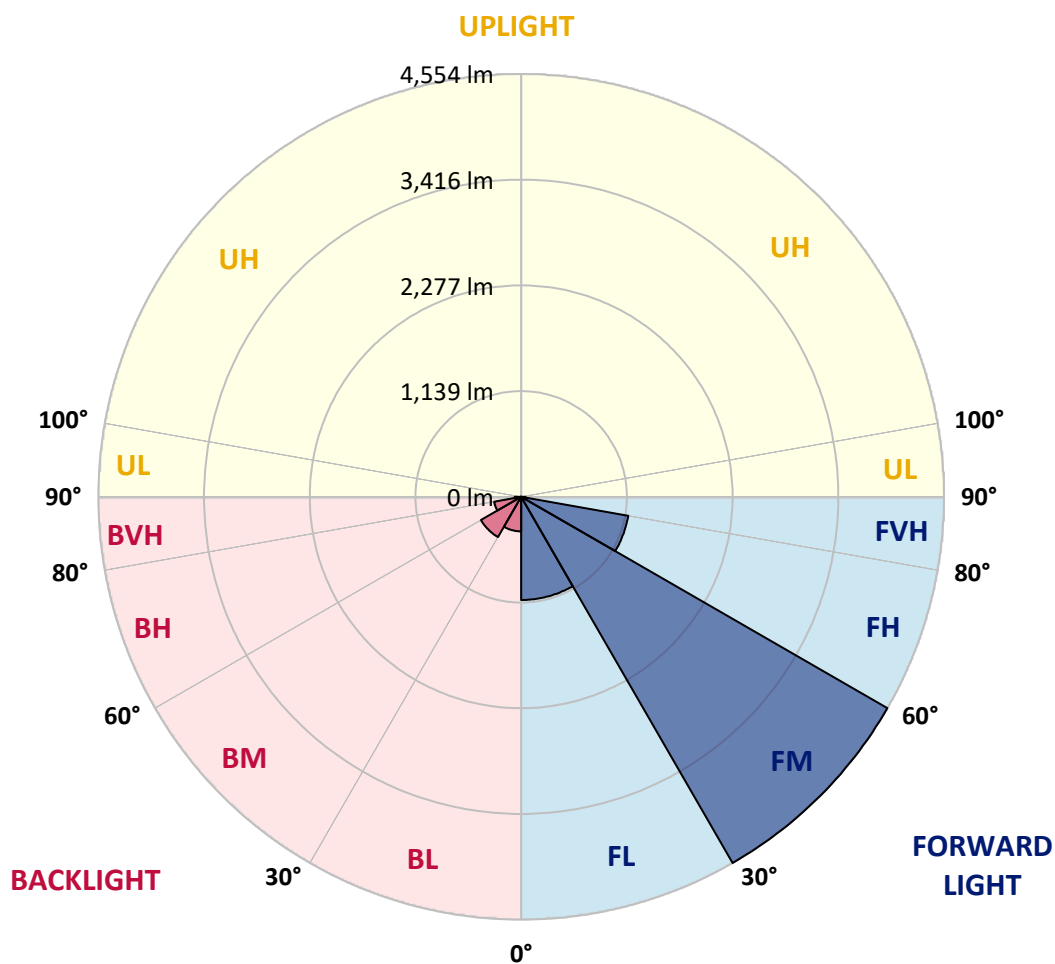
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1111.1	13.7			
FM	(30°-60°)	4554.3	56.1			
FH	(60°-80°)	1171.1	14.4			G1/1800
FVH	(80°-90°)	46.2	0.6			G1/100
BL	(0°-30°)	372.2	4.6	B1/500		
BM	(30°-60°)	499.9	6.2	B1/1000		
BH	(60°-80°)	295.5	3.6	B1/500		G1/500
BVH	(80°-90°)	70.9	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	2157.3	2157.3	2157.3	2157.3	2157.3	2157.3	2157.3	2157.3	2157.3	2157.3	2157.3
2.5°	2465.1	2445.2	2432.5	2421.5	2407.0	2376.0	2334.4	2307.9	2294.6	2249.0	2195.1
5°	2706.8	2689.2	2676.2	2661.2	2635.3	2586.7	2519.4	2465.9	2439.4	2348.4	2240.6
7.5°	2650.2	2657.4	2680.0	2719.4	2753.0	2746.6	2686.4	2618.4	2583.7	2457.0	2293.4
10°	2309.0	2321.6	2360.6	2452.9	2602.0	2755.0	2801.6	2754.5	2719.4	2564.6	2347.7
12.5°	2240.6	2240.3	2243.3	2267.7	2356.5	2571.8	2805.4	2852.9	2831.8	2667.0	2403.1
15°	2268.5	2269.4	2267.0	2277.3	2304.9	2390.1	2688.5	2890.8	2905.6	2770.3	2460.5
17.5°	2342.0	2340.0	2331.3	2331.3	2341.2	2374.4	2550.7	2855.5	2924.5	2861.6	2511.0
20°	2465.1	2456.2	2432.9	2411.6	2400.9	2418.8	2494.2	2774.4	2891.9	2941.6	2552.7
22.5°	2614.2	2607.4	2569.4	2523.6	2486.5	2486.0	2523.3	2703.7	2835.6	3016.9	2587.8
25°	2807.0	2795.8	2739.6	2666.3	2601.3	2576.4	2586.7	2700.3	2805.0	3098.8	2619.2
27.5°	3033.4	3013.2	2946.6	2840.6	2745.0	2694.9	2680.0	2762.6	2833.0	3200.1	2662.7
30°	3308.0	3284.7	3199.3	3061.3	2926.3	2844.0	2812.4	2873.1	2925.5	3323.6	2732.8
32.5°	3620.5	3586.8	3488.1	3335.9	3158.4	3033.0	2981.3	3019.3	3060.9	3472.4	2820.3
35°	4052.1	4012.0	3869.3	3659.4	3459.0	3286.5	3203.9	3231.5	3272.0	3694.2	2946.9
37.5°	4346.7	4328.7	4233.8	4036.5	3818.5	3620.0	3492.3	3508.4	3531.3	3971.5	3109.1
40°	4343.9	4351.2	4353.1	4355.1	4206.6	4016.6	3879.2	3862.5	3857.8	4275.9	3293.4
42.5°	4126.2	4156.1	4252.5	4448.0	4538.2	4451.0	4325.2	4276.6	4252.5	4634.6	3488.8
45°	3793.3	3809.4	3989.8	4371.5	4708.0	4881.2	4786.0	4633.0	4589.4	4964.2	3651.0
47.5°	3621.5	3639.1	3752.7	4168.8	4706.2	5228.8	5283.9	4992.5	4914.5	5251.0	3791.0
50°	3212.8	3249.5	3392.5	3816.2	4534.4	5388.6	5804.4	5420.8	5259.4	5530.1	3931.2
52.5°	2462.0	2518.7	2678.8	3236.5	4098.8	5309.6	6220.9	5940.2	5712.2	5819.3	4051.8
55°	1553.0	1595.0	1729.7	2285.7	3278.9	4897.6	6378.8	6501.9	6299.3	6093.2	4156.1
57.5°	844.3	863.1	913.6	1262.0	2132.7	3987.1	6148.6	6821.6	6737.5	6325.7	4234.9
58°	755.6	768.3	799.7	1093.6	1891.5	3738.2	6046.5	6822.8	6780.7	6359.7	4241.0
60°	560.6	554.2	526.2	624.1	1052.8	2582.5	5429.2	6549.8	6673.2	6401.4	4211.2
62.5°	492.5	476.9	419.9	413.4	512.1	1189.8	4154.2	5610.5	5902.3	6163.6	4029.9
65°	462.7	445.9	372.5	348.7	369.4	503.2	2447.1	4207.8	4573.8	5442.2	3566.4
67.5°	440.6	418.8	342.3	309.8	311.3	332.7	980.9	2650.2	3062.1	4132.0	2774.1
70°	419.1	395.4	316.7	279.1	270.4	263.1	390.0	1326.6	1700.3	2609.9	1768.7
72.5°	396.2	372.9	294.1	255.1	237.8	213.8	254.7	542.7	757.9	1234.8	802.3
75°	363.0	341.9	271.5	233.7	209.2	177.1	192.4	283.4	340.1	491.7	386.7
77.5°	322.0	304.9	246.3	216.2	185.5	143.7	148.0	196.5	218.0	281.5	229.9
80°	231.4	237.5	219.2	194.3	165.2	116.7	113.6	143.4	154.9	181.0	149.5
82.5°	162.6	166.0	181.3	158.8	136.6	91.8	83.8	100.9	107.8	119.0	80.8
85°	112.1	108.2	124.3	110.6	98.7	61.1	57.4	68.5	72.6	73.9	41.7
87.5°	67.3	67.3	71.9	59.3	53.2	31.8	31.0	39.0	41.7	39.8	23.0
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°	2157.3	2157.3	2157.3	2157.3	2157.3	2157.3	2157.3	2157.3	2157.3	2157.3	2157.3
2.5°	2163.0	2135.8	2078.1	2031.7	1973.3	1912.5	1878.5	1842.1	1817.3	1799.3	1828.0
5°	2179.4	2124.0	2004.7	1891.5	1766.4	1636.3	1537.8	1445.9	1382.0	1342.2	1379.7
7.5°	2205.4	2120.1	1930.1	1736.5	1512.1	1295.6	1102.1	980.9	910.1	875.3	897.1
10°	2235.2	2114.0	1842.5	1526.7	1205.3	932.7	788.2	739.2	723.2	716.6	719.7
12.5°	2260.1	2101.0	1735.0	1272.7	905.2	736.5	694.9	693.7	697.2	697.9	699.0
15°	2277.7	2081.9	1575.6	1008.0	724.0	671.2	668.8	675.8	682.3	684.9	686.4
17.5°	2289.5	2042.5	1395.5	796.9	648.6	639.3	644.7	653.6	660.5	662.3	663.9
20°	2288.4	1984.8	1180.9	664.7	607.7	607.7	616.9	623.8	624.1	621.8	623.0
22.5°	2276.5	1905.6	972.9	594.3	571.3	577.9	587.0	580.5	553.7	536.1	537.3
25°	2256.6	1811.2	794.7	549.6	537.7	549.1	546.6	497.5	459.3	442.1	442.1
27.5°	2239.0	1699.5	657.7	510.6	504.0	518.2	470.8	426.4	410.4	402.3	399.7
30°	2226.4	1579.1	566.4	473.1	472.3	461.9	408.4	396.2	393.6	387.0	384.7
32.5°	2229.6	1457.1	507.8	440.2	442.8	395.4	378.6	381.4	379.0	372.1	369.1
35°	2254.8	1341.1	469.6	410.4	402.3	357.2	361.0	366.0	365.3	355.6	352.6
37.5°	2299.9	1231.4	444.3	385.4	351.0	338.0	344.1	351.9	349.9	343.4	341.1
40°	2347.3	1128.1	423.7	366.0	320.9	325.0	330.4	334.7	336.5	338.4	336.9
42.5°	2393.6	1020.3	398.5	346.2	308.2	312.8	315.1	319.4	329.6	336.9	336.5
45°	2421.0	919.0	372.5	317.8	298.3	301.0	299.5	307.9	320.4	332.3	332.7
47.5°	2451.7	840.2	351.9	291.8	288.8	290.6	286.0	294.5	305.9	320.4	322.0
50°	2488.8	793.1	335.4	271.2	275.8	275.8	274.6	282.2	298.3	315.1	318.2
52.5°	2530.9	783.9	321.7	256.2	262.8	262.3	263.6	275.0	292.6	308.9	311.7
55°	2582.2	808.8	306.7	245.2	250.1	251.7	255.4	268.4	283.4	302.1	303.3
57.5°	2641.8	859.4	294.9	236.3	238.6	243.6	249.7	261.5	277.6	298.3	299.5
58°	2651.7	870.0	293.0	235.6	236.3	242.1	249.0	260.5	276.5	299.1	300.3
60°	2652.0	905.5	288.8	232.1	227.6	237.1	244.7	256.2	274.6	301.8	304.4
62.5°	2558.0	905.2	285.7	227.2	218.4	230.2	239.1	252.4	272.7	308.2	313.6
65°	2252.5	822.6	271.2	219.5	211.1	224.1	234.1	249.7	278.1	336.5	340.1
67.5°	1761.8	674.2	243.9	208.8	201.6	218.0	231.0	249.3	283.7	343.1	345.4
70°	1164.8	504.4	214.1	196.5	191.6	210.8	232.5	262.3	277.3	329.3	323.2
72.5°	604.6	354.1	190.1	181.3	180.2	204.2	254.7	260.8	270.8	309.8	302.1
75°	317.4	246.0	169.1	164.4	166.4	202.6	300.6	253.9	262.3	296.4	311.0
77.5°	194.3	198.6	151.1	149.1	153.0	198.1	300.3	245.2	250.1	272.7	288.8
80°	130.0	161.0	137.3	137.6	140.4	181.3	269.7	231.4	235.2	257.8	274.2
82.5°	82.3	95.3	124.7	131.2	127.8	149.5	229.1	210.8	216.2	294.9	311.7
85°	41.7	59.6	108.2	126.2	115.2	104.8	185.8	184.7	187.4	212.6	222.3
87.5°	19.1	32.9	84.5	110.2	86.9	65.4	135.1	136.9	147.6	151.1	151.1
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)