

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: P381000

Luminaire Tested: **USSL-XL-PA3A-740-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381000
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-PA3A-740-U-T4W
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24325 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 172
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



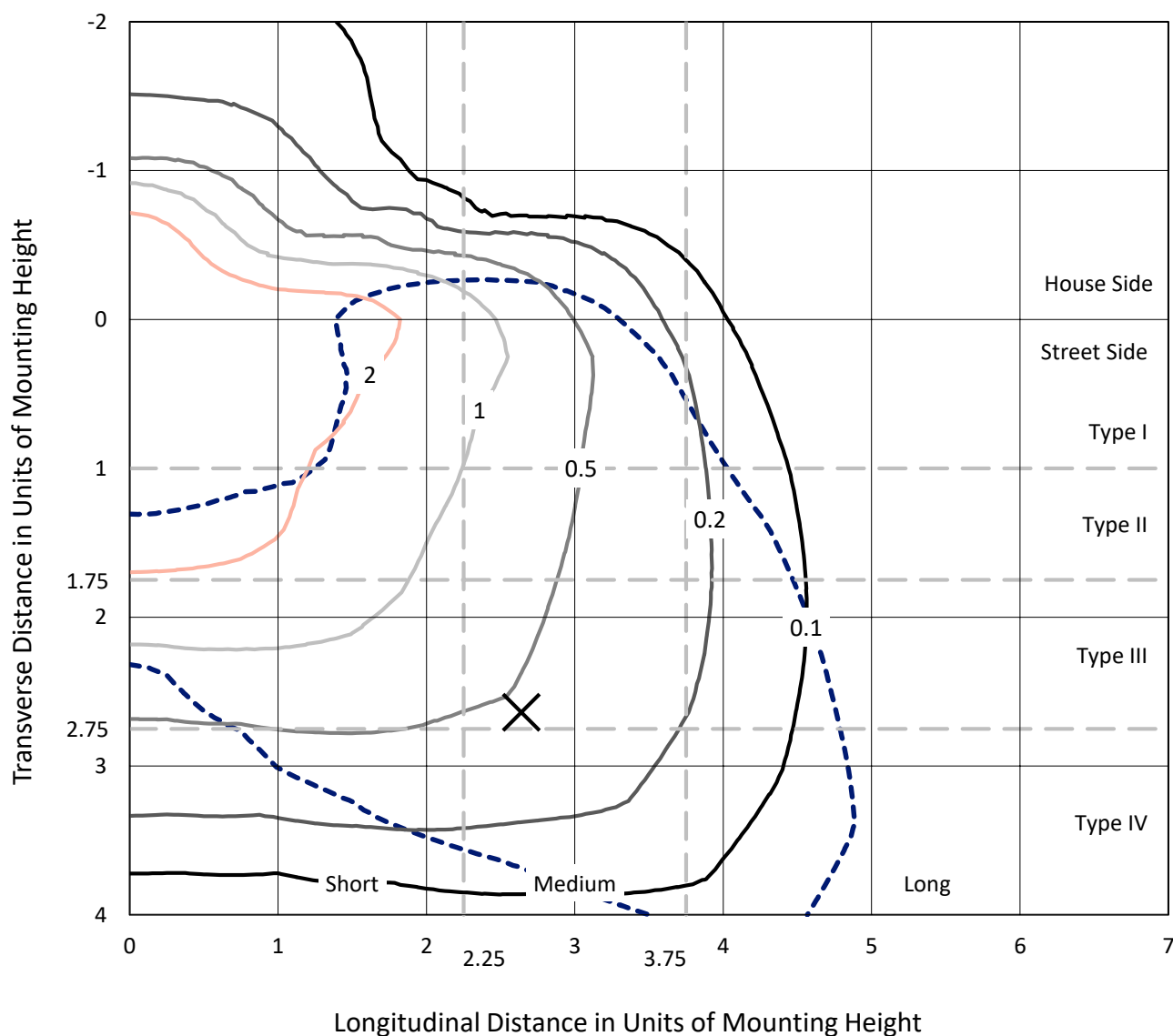
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

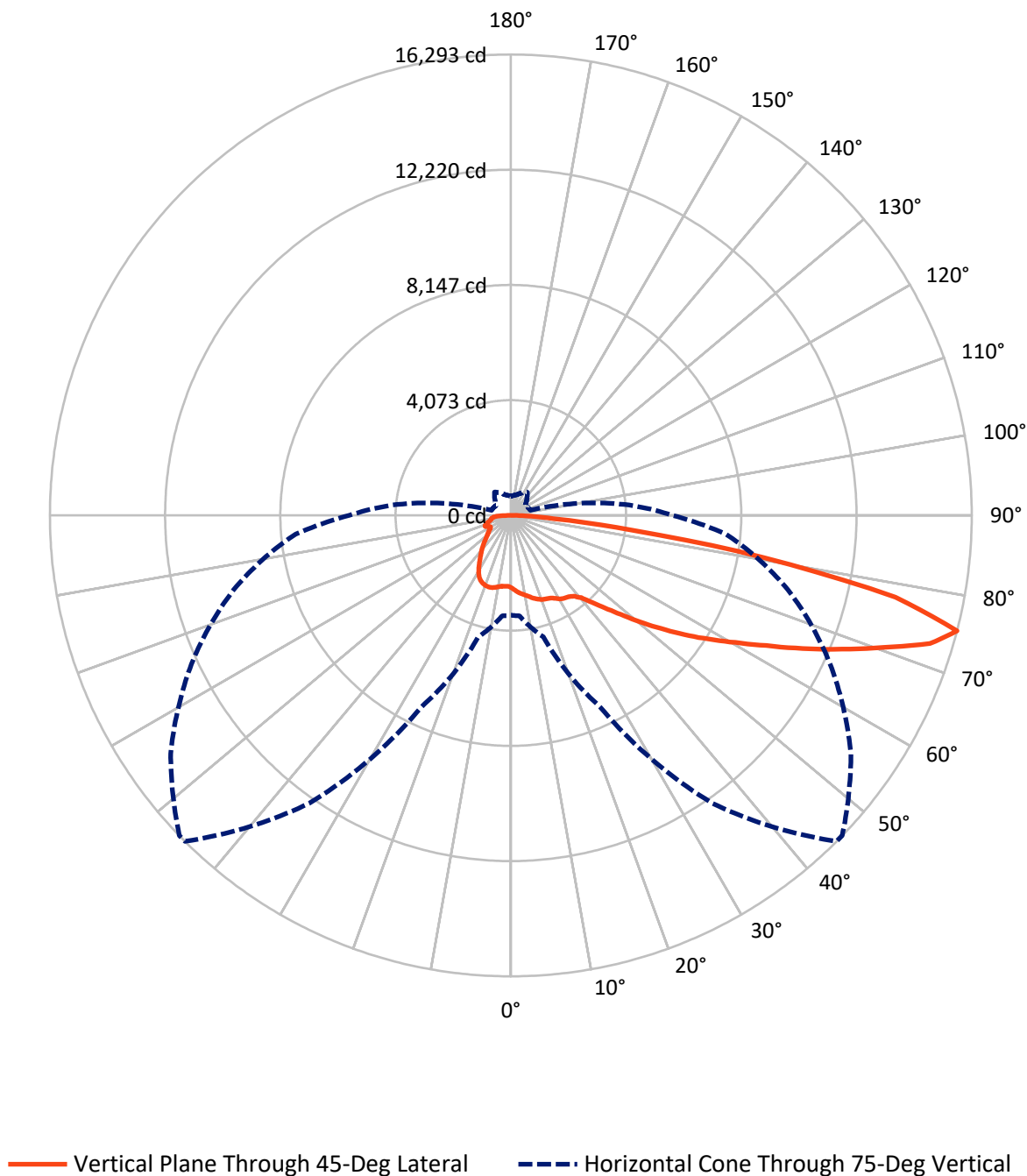


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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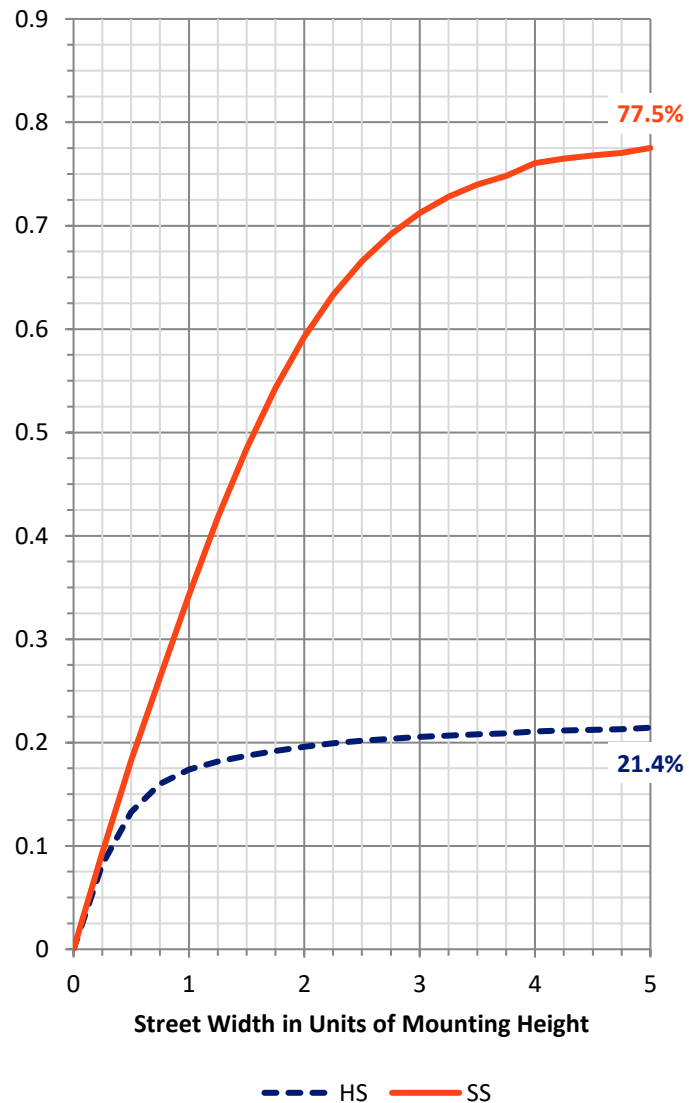
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5375.7	0.0	5375.7
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	18949.3	0.0	18949.3
	% Fixture	77.9	0.0	77.9
Total	Lumens	24325.0	0.0	24325.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.7	1.0
10°-20°	804.0	3.3
20°-30°	1370.7	5.6
30°-40°	1920.6	7.9
40°-50°	2821.6	11.6
50°-60°	4490.6	18.5
60°-70°	6387.9	26.3
70°-80°	5348.6	22.0
80°-90°	928.2	3.8
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°	24325.0	100.0
0°-180°	24325.0	100.0

Coefficient of Utilization



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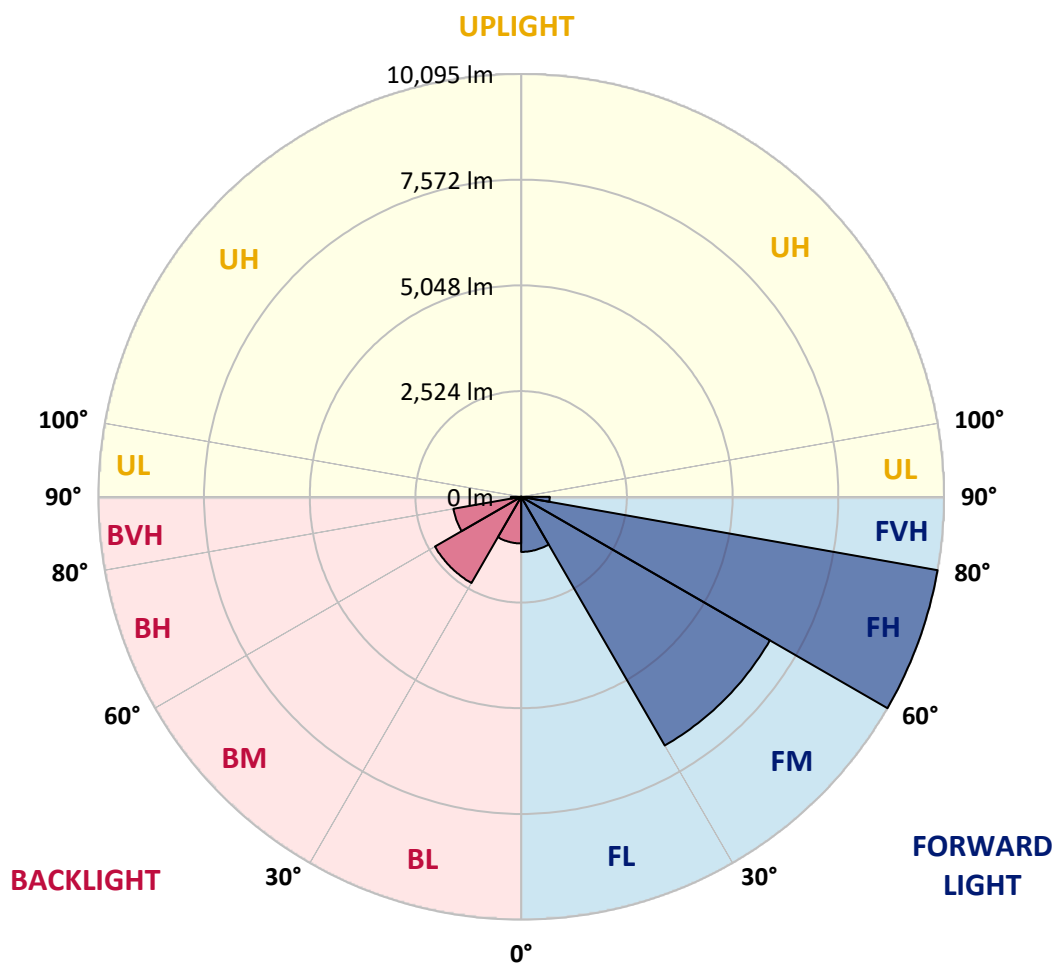
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1314.9	5.4			
FM	(30°-60°)	6856.5	28.2			
FH	(60°-80°)	10095.5	41.5			G4/12000
FVH	(80°-90°)	682.4	2.8			G4/750
BL	(0°-30°)	1112.6	4.6	B3/2500		
BM	(30°-60°)	2376.3	9.8	B2/2500		
BH	(60°-80°)	1641.0	6.7	B3/2500		G3/2500
BVH	(80°-90°)	245.8	1.0			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2554.7	2554.7	2554.7	2554.7	2554.7	2554.7	2554.7	2554.7	2554.7	2554.7	2554.7
2.5°	2700.9	2687.9	2681.4	2681.4	2655.4	2639.2	2635.9	2613.2	2593.7	2574.2	2557.9
5°	2856.9	2847.2	2827.7	2811.4	2775.7	2730.2	2723.7	2674.9	2626.2	2580.7	2541.7
7.5°	2999.9	2980.4	2957.7	2925.2	2866.7	2804.9	2795.2	2726.9	2658.7	2590.4	2538.4
10°	3120.2	3100.7	3068.2	3022.7	2947.9	2873.2	2863.4	2791.9	2720.4	2639.2	2564.4
12.5°	3233.9	3217.7	3168.9	3107.2	3019.4	2951.2	2941.4	2879.7	2804.9	2713.9	2616.4
15°	3331.5	3315.2	3263.2	3191.7	3090.9	3038.9	3025.9	2967.4	2892.7	2795.2	2694.4
17.5°	3380.2	3380.2	3325.0	3246.9	3152.7	3113.7	3103.9	3032.4	2964.2	2869.9	2769.2
20°	3396.5	3403.0	3364.0	3269.7	3188.4	3172.2	3162.4	3103.9	3025.9	2934.9	2840.7
22.5°	3406.2	3419.2	3386.7	3279.5	3211.2	3201.4	3194.9	3155.9	3094.2	3006.4	2912.2
25°	3438.7	3438.7	3416.0	3295.7	3240.4	3237.2	3237.2	3214.4	3172.2	3097.4	3003.2
27.5°	3487.5	3484.2	3455.0	3331.5	3305.5	3315.2	3312.0	3308.7	3279.5	3204.7	3103.9
30°	3568.7	3568.7	3536.2	3403.0	3386.7	3429.0	3432.2	3438.7	3393.2	3276.2	3194.9
32.5°	3692.2	3679.2	3646.7	3474.5	3448.5	3487.5	3494.0	3490.7	3451.7	3341.2	3302.2
35°	4072.5	4043.2	3926.2	3633.7	3503.7	3526.5	3529.7	3546.0	3552.5	3464.7	3445.2
37.5°	4738.8	4699.8	4521.0	4010.7	3679.2	3624.0	3620.7	3663.0	3698.7	3620.7	3620.7
40°	5463.6	5431.1	5327.1	4660.8	4004.2	3822.2	3809.2	3848.2	3893.7	3838.5	3854.7
42.5°	6087.6	6113.6	6123.4	5349.8	4491.8	4192.8	4157.0	4101.8	4173.3	4124.5	4189.5
45°	6555.7	6542.7	6721.4	6055.1	5122.3	4657.5	4608.8	4459.3	4550.3	4547.0	4690.0
47.5°	7052.9	7030.2	7104.9	6718.2	5840.6	5226.3	5151.6	4930.6	5067.1	5161.3	5398.6
50°	7524.2	7530.7	7556.7	7241.4	6620.7	5918.6	5824.4	5528.6	5723.6	5921.9	6256.6
52.5°	8138.5	8093.0	8060.5	7852.5	7495.0	6640.2	6578.4	6240.4	6513.4	6747.4	7192.7
55°	8674.8	8645.5	8626.0	8616.3	8226.3	7436.5	7371.5	7020.4	7413.7	7579.5	8236.0
57.5°	9246.8	9230.6	9334.6	9500.3	9344.3	8245.8	8177.5	7839.5	8278.3	8395.3	9367.1
60°	9666.1	9675.8	9961.9	10384.4	10277.1	9123.3	9042.1	8743.0	9120.1	9224.1	10498.1
62.5°	9669.3	9766.9	10429.9	11187.2	11310.7	10134.1	10039.9	9714.8	9984.6	9984.6	11512.2
65°	8746.3	8856.8	10345.4	11385.5	12357.3	11336.7	11245.7	10735.4	10836.2	10699.7	12464.5
67.5°	7826.5	7956.5	9357.3	11401.7	13091.8	12623.8	12516.5	11756.0	11583.7	11239.2	13130.8
70°	7215.4	7306.4	8476.5	11190.4	13533.8	13969.4	13888.1	12724.5	12172.0	11691.0	12991.0
72.5°	6074.6	6042.1	7160.2	10186.1	13780.8	15497.0	15428.7	13777.6	12682.3	11476.5	11079.9
75°	3526.5	3565.5	4443.0	7462.5	12422.3	16293.3	16286.8	14677.9	12458.0	10137.4	7634.7
77.5°	1017.3	1046.6	1459.3	3279.5	7855.7	13897.9	14343.1	13423.3	10530.6	7225.2	3958.7
80°	445.3	468.0	633.8	1092.1	3383.5	9077.8	9467.8	9077.8	6350.9	3315.2	1553.6
82.5°	263.3	279.5	412.8	676.0	1621.8	4319.5	4846.0	4231.8	2739.9	1407.3	643.5
85°	149.5	156.0	237.3	429.0	1020.6	1511.3	1696.6	1589.3	1335.8	799.5	338.0
87.5°	68.3	71.5	117.0	201.5	572.0	510.3	529.8	702.0	773.5	487.5	169.0
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°	2554.7	2554.7	2554.7	2554.7	2554.7	2554.7	2554.7	2554.7	2554.7	2554.7	2554.7
2.5°	2551.4	2541.7	2522.2	2515.7	2505.9	2509.2	2512.4	2512.4	2515.7	2505.9	2505.9
5°	2525.4	2509.2	2489.7	2489.7	2489.7	2515.7	2538.4	2551.4	2557.9	2557.9	2551.4
7.5°	2515.7	2496.2	2473.4	2479.9	2486.4	2518.9	2561.2	2603.4	2616.4	2616.4	2609.9
10°	2535.2	2515.7	2499.4	2509.2	2525.4	2551.4	2583.9	2622.9	2655.4	2658.7	2655.4
12.5°	2580.7	2557.9	2541.7	2561.2	2580.7	2596.9	2613.2	2629.4	2671.7	2678.2	2678.2
15°	2655.4	2632.7	2613.2	2629.4	2635.9	2635.9	2635.9	2635.9	2678.2	2684.7	2684.7
17.5°	2730.2	2710.7	2691.2	2694.4	2674.9	2648.9	2639.2	2635.9	2658.7	2678.2	2681.4
20°	2801.7	2785.4	2765.9	2733.4	2684.7	2635.9	2619.7	2619.7	2632.7	2661.9	2661.9
22.5°	2879.7	2860.2	2827.7	2752.9	2671.7	2603.4	2587.2	2596.9	2613.2	2652.2	2648.9
25°	2967.4	2941.4	2886.2	2746.4	2629.4	2548.2	2551.4	2580.7	2609.9	2652.2	2652.2
27.5°	3064.9	3029.2	2918.7	2694.4	2535.2	2457.2	2486.4	2554.7	2596.9	2642.4	2648.9
30°	3172.2	3139.7	2944.7	2603.4	2382.4	2310.9	2382.4	2492.9	2557.9	2600.2	2609.9
32.5°	3302.2	3276.2	2967.4	2486.4	2184.1	2122.4	2226.4	2362.9	2466.9	2515.7	2525.4
35°	3464.7	3438.7	2996.7	2353.1	1998.9	1933.9	2028.1	2167.9	2304.4	2366.1	2385.6
37.5°	3676.0	3637.0	3022.7	2210.1	1842.9	1768.1	1813.6	1940.4	2063.9	2148.4	2171.1
40°	3945.7	3884.0	3045.4	2047.6	1706.4	1621.8	1638.1	1699.9	1771.4	1846.1	1875.4
42.5°	4326.0	4202.5	3048.7	1875.4	1566.6	1488.6	1482.1	1501.6	1501.6	1501.6	1511.3
45°	4855.8	4621.8	3055.2	1712.9	1423.6	1342.3	1322.8	1316.3	1267.6	1173.3	1166.8
47.5°	5525.3	5171.1	3084.4	1576.3	1274.1	1202.6	1176.6	1150.6	1059.6	962.1	942.6
50°	6383.4	5808.1	3142.9	1446.3	1147.3	1098.6	1066.1	1004.3	903.6	828.8	809.3
52.5°	7371.5	6565.4	3198.2	1309.8	1053.1	1020.6	981.6	906.8	799.5	754.0	747.5
55°	8505.8	7410.5	3308.7	1189.6	971.8	949.1	913.3	841.8	760.5	728.0	724.8
57.5°	9666.1	8356.3	3464.7	1082.3	893.8	880.8	880.8	819.1	767.0	754.0	754.0
60°	10784.2	9168.8	3344.5	981.6	822.3	828.8	890.6	874.3	835.3	851.6	861.3
62.5°	11652.0	9646.6	2713.9	900.3	770.3	828.8	988.1	988.1	942.6	936.1	936.1
65°	12022.5	9640.1	1907.9	838.6	750.8	910.1	1101.8	1049.8	929.6	884.1	874.3
67.5°	11928.2	9217.6	1316.3	796.3	744.3	994.6	1153.8	1007.6	871.1	832.1	802.8
70°	11099.4	8323.8	1014.1	757.3	734.5	958.8	1137.6	958.8	825.6	789.8	763.8
72.5°	8954.3	6675.9	841.8	718.3	695.5	887.3	1082.3	913.3	789.8	750.8	724.8
75°	5710.6	4199.3	711.8	666.3	620.8	796.3	1007.6	867.8	750.8	698.8	679.3
77.5°	2746.4	1810.4	620.8	604.5	559.0	737.8	932.8	809.3	698.8	656.5	643.5
80°	1111.6	828.8	539.5	542.8	513.5	702.0	880.8	754.0	646.8	601.3	578.5
82.5°	578.5	481.0	455.0	468.0	468.0	669.5	841.8	708.5	601.3	581.8	507.0
85°	312.0	299.0	351.0	377.0	406.3	604.5	783.3	659.8	549.3	471.3	455.0
87.5°	152.8	195.0	198.3	227.5	282.8	484.3	659.8	552.5	458.3	380.3	373.8
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)