

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: ITL53974_250MP

Luminaire Tested: **GMX25PXX4SF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: ITL53974_250MP
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GMX25PXX4SF
Description: 250W MH TYPE IV AREA
Light Source: 250 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 22000 (1 lamp)
Luminaire Lumens: 17794.8 lumens
Efficiency: 80.9%
Efficacy: 62.9 lumens/watt
Luminous Opening: Circular (Dia: 1.74' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

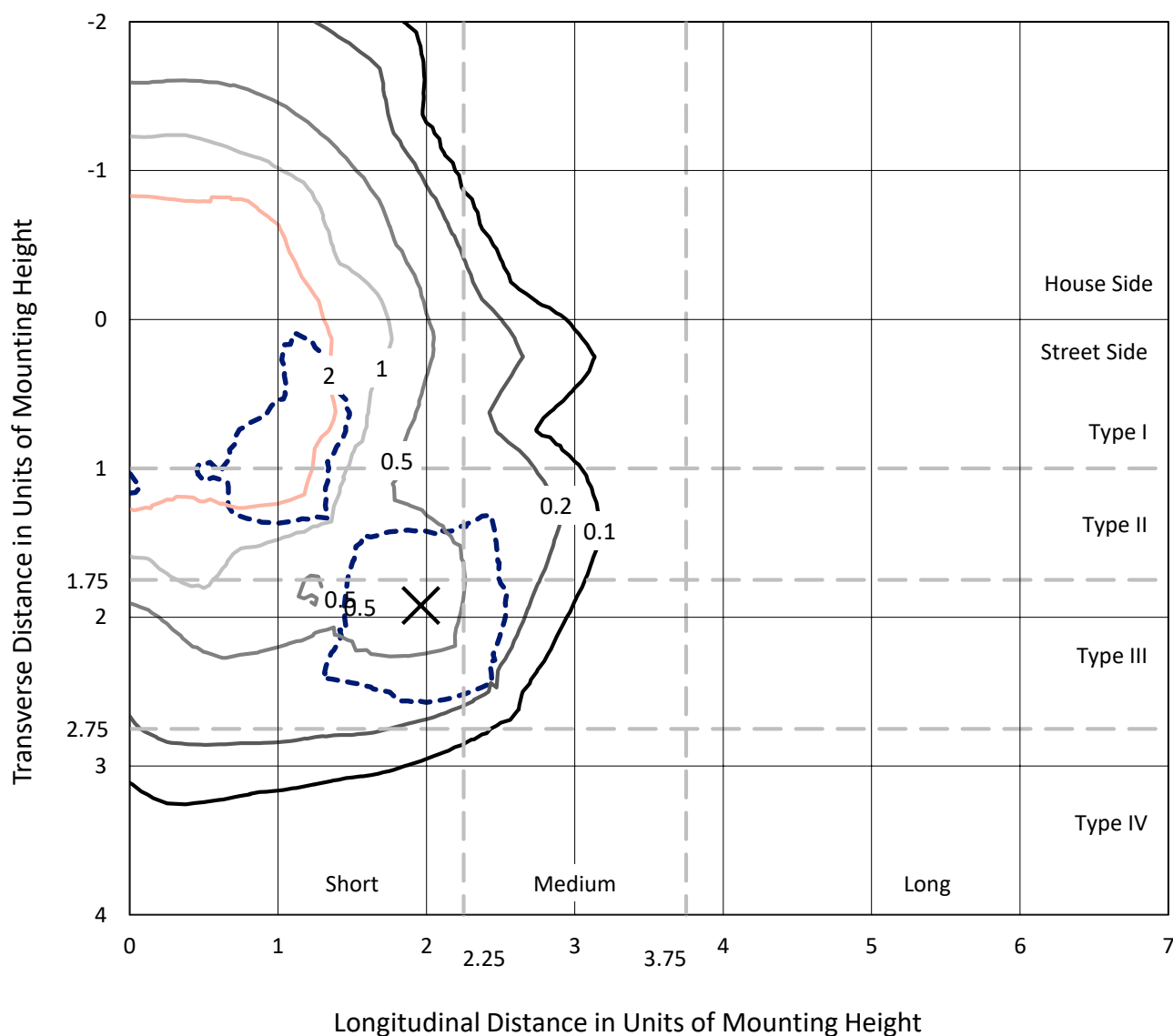
Input Watts (W): 283
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

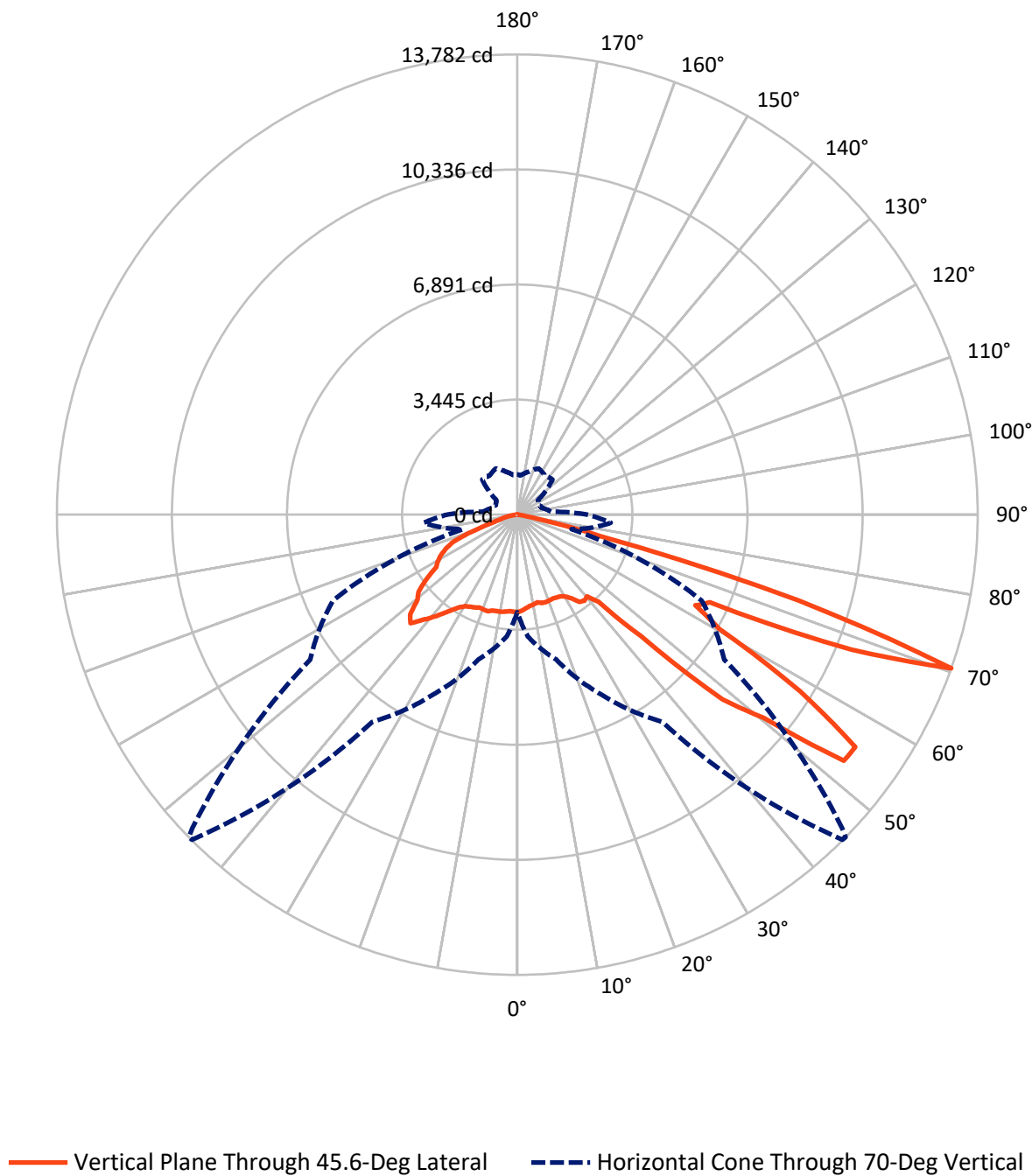
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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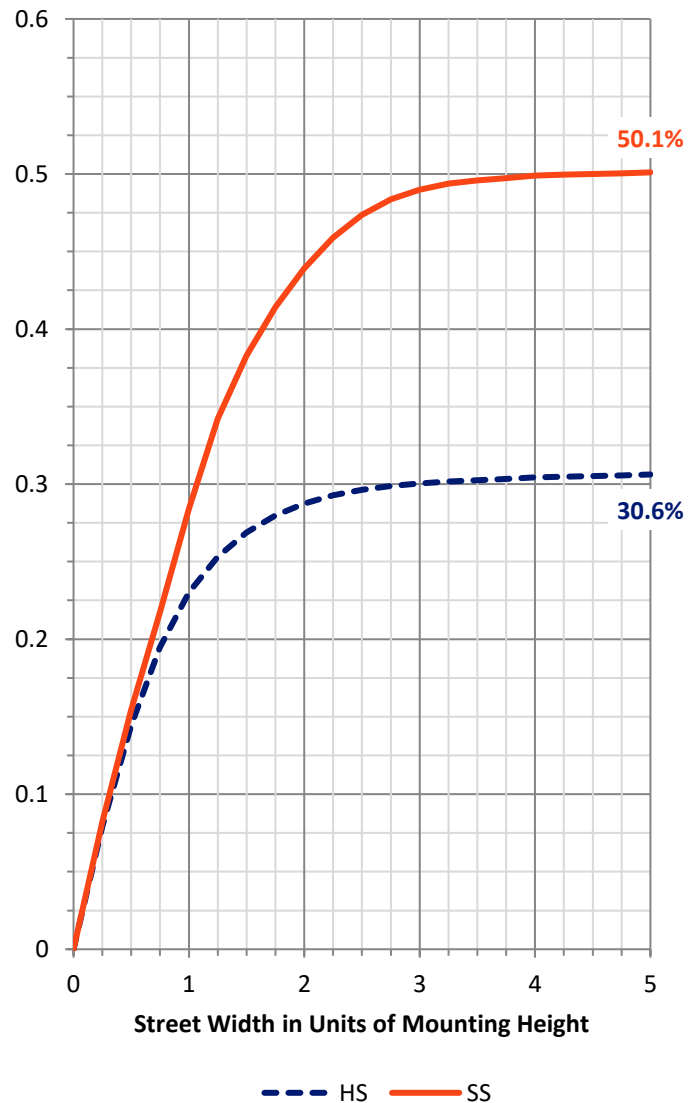
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6771.6	0.0	6771.6
	% Lamp	30.8	0.0	30.8
Street Side	Lumens	11023.2	0.0	11023.2
	% Lamp	50.1	0.0	50.1
Total	Lumens	17794.8	0.0	17794.8
	% Lamp	80.9	0.0	80.9

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	274.2	1.5	1.2
10°-20°	812.9	4.6	3.7
20°-30°	1369.9	7.7	6.2
30°-40°	2130.7	12.0	9.7
40°-50°	3565.0	20.0	16.2
50°-60°	4528.4	25.4	20.6
60°-70°	3425.2	19.2	15.6
70°-80°	1596.3	9.0	7.3
80°-90°	92.2	0.5	0.4
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	17794.8	100.0	80.9
0°-180°	17794.8	100.0	80.9

Coefficient of Utilization

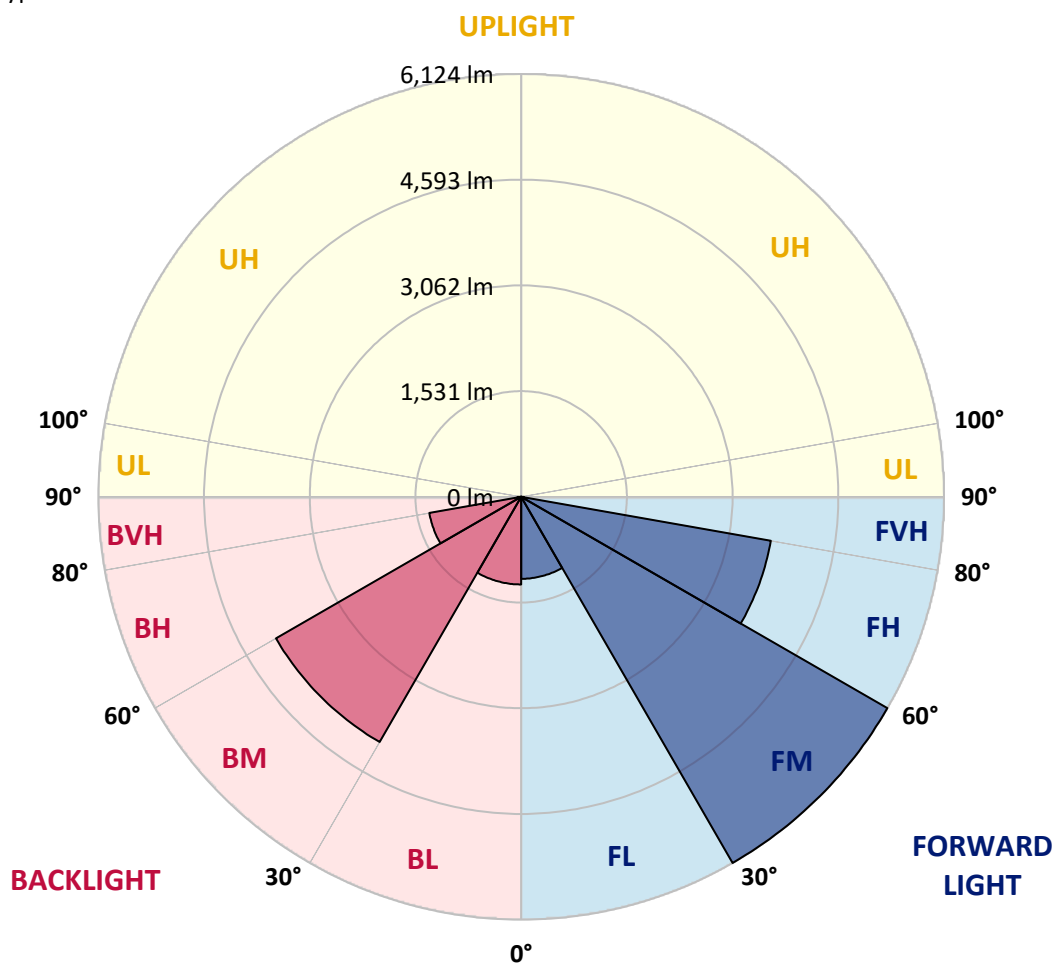


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1187.8	5.4			
FM	(30°-60°)	6123.9	27.8			
FH	(60°-80°)	3671.4	16.7			G2/5000
FVH	(80°-90°)	40.2	0.2			G1/100
BL	(0°-30°)	1269.2	5.8	B3/2500		
BM	(30°-60°)	4100.2	18.6	B3/5000		
BH	(60°-80°)	1350.1	6.1	B3/2500		G3/2500
BVH	(80°-90°)	52.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		4205.2	19.1			

BUG Rating: B3-U0-G3
Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	45.6°	55°	65°	75°	85°
0°	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1
2.5°	2871.8	2884.7	2884.7	2884.7	2884.7	2884.7	2871.8	2897.6	2909.4	2923.3	2923.3
5°	2768.8	2794.5	2782.7	2794.5	2820.3	2846.0	2808.5	2858.9	2884.7	2897.6	2909.4
7.5°	2691.5	2705.5	2730.1	2744.1	2768.8	2782.7	2755.9	2808.5	2858.9	2884.7	2897.6
10°	2666.8	2679.7	2679.7	2705.5	2705.5	2744.1	2730.1	2782.7	2833.2	2871.8	2923.3
12.5°	2641.1	2654.0	2666.8	2691.5	2691.5	2730.1	2691.5	2782.7	2871.8	2923.3	2936.2
15°	2615.3	2654.0	2666.8	2679.7	2679.7	2744.1	2744.1	2808.5	2833.2	2871.8	2897.6
17.5°	2589.6	2654.0	2833.2	2949.1	2705.5	2782.7	2755.9	2768.8	2820.3	2884.7	2949.1
20°	2999.5	2884.7	2833.2	2654.0	2679.7	2744.1	2744.1	2782.7	2871.8	2949.1	3012.4
22.5°	2691.5	2730.1	2589.6	2589.6	2666.8	2730.1	2730.1	2871.8	2936.2	3026.3	3063.9
25°	2486.5	2526.2	2564.9	2576.7	2641.1	2744.1	2744.1	2884.7	2999.5	3090.7	3166.9
27.5°	2486.5	2486.5	2550.9	2564.9	2654.0	2768.8	2768.8	2962.0	3063.9	3270.0	3397.7
30°	2436.1	2538.0	2526.2	2589.6	2666.8	2833.2	2846.0	3090.7	3244.2	3552.2	3756.1
32.5°	2384.6	2589.6	2705.5	2615.3	2691.5	2962.0	2987.7	3397.7	3487.8	3949.3	4282.0
35°	2666.8	2576.7	2923.3	2666.8	2782.7	3166.9	3205.6	3628.4	3858.0	4269.1	4436.5
37.5°	3051.0	2999.5	2679.7	2858.9	2936.2	3205.6	3270.0	3705.7	3743.2	3884.9	3935.3
40°	2820.3	2962.0	2884.7	3628.4	3115.4	3179.8	3217.4	3487.8	3922.4	4089.9	4410.7
42.5°	3256.0	3320.4	4538.4	5525.8	3294.6	3397.7	3564.0	3602.6	3986.8	4666.1	5038.5
45°	6332.8	5295.0	4922.6	5768.3	4372.1	5012.8	5192.0	4089.9	4346.3	5641.7	5961.5
47.5°	7768.7	6717.0	5448.5	6897.3	6076.3	7692.5	8268.8	5820.9	5333.7	7307.2	6666.5
50°	5692.1	5487.1	5204.9	7063.6	6358.5	9051.1	9564.1	8307.4	7205.3	8154.0	6282.3
52.5°	5204.9	5282.1	4089.9	5641.7	6781.4	12153.7	12243.8	8576.8	7589.5	6590.3	6218.0
55°	4230.4	5038.5	6025.9	5974.3	8333.2	12590.4	12282.4	7781.6	7768.7	6076.3	5871.3
57.5°	4282.0	4294.8	6627.9	5282.1	7281.5	10525.7	9986.9	7358.7	7768.7	5204.9	5871.3
60°	3667.0	4140.3	6794.2	4486.9	6011.9	7486.4	6948.8	5461.4	4935.5	4422.5	5641.7
62.5°	3026.3	3397.7	5756.5	4319.5	3975.0	6179.3	5987.2	4192.9	4128.5	4358.1	4064.1
65°	2589.6	3166.9	5589.1	4564.2	3794.7	6050.5	6332.8	4167.1	2962.0	2808.5	3628.4
67.5°	2744.1	3423.4	5166.2	5717.9	5627.7	9986.9	10781.1	5974.3	3538.2	2666.8	3231.3
70°	2923.3	3667.0	4486.9	5935.7	7577.7	13768.8	13781.7	7563.7	6090.2	1679.5	2808.5
72.5°	2076.6	2755.9	2987.7	3833.4	6166.4	10230.5	8806.4	6050.5	4922.6	1256.7	2268.7
75°	1435.9	1616.2	1000.2	1410.1	2192.5	3256.0	2564.9	2089.5	1781.5	769.5	1448.8
77.5°	769.5	846.7	448.6	422.8	576.3	846.7	693.3	551.6	513.0	372.4	769.5
80°	256.5	294.0	217.9	205.0	243.6	308.0	269.4	243.6	217.9	192.1	385.3
82.5°	103.0	114.8	103.0	103.0	114.8	140.6	114.8	114.8	114.8	103.0	140.6
85°	25.8	50.4	38.6	38.6	50.4	50.4	38.6	50.4	50.4	50.4	50.4
87.5°	0.0	0.0	12.9	0.0	0.0	0.0	0.0	0.0	12.9	25.8	25.8
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°	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1
2.5°	2936.2	2923.3	2936.2	2909.4	2909.4	2909.4	2909.4	2909.4	2909.4	2923.3	2897.6
5°	2909.4	2923.3	2923.3	2923.3	2909.4	2897.6	2909.4	2909.4	2923.3	2909.4	2897.6
7.5°	2909.4	2909.4	2923.3	2962.0	2936.2	2923.3	2936.2	2936.2	2936.2	2949.1	2949.1
10°	2923.3	2936.2	2936.2	2936.2	2962.0	2949.1	2949.1	2936.2	2923.3	2923.3	2949.1
12.5°	2949.1	2949.1	2999.5	3012.4	2987.7	2949.1	2936.2	2909.4	2871.8	2871.8	2871.8
15°	2923.3	2909.4	2973.8	2987.7	3038.1	2962.0	2923.3	2884.7	2858.9	2871.8	2871.8
17.5°	2962.0	2987.7	2999.5	3012.4	2999.5	3026.3	2923.3	2884.7	2858.9	2846.0	2846.0
20°	3051.0	3038.1	3063.9	3076.8	3026.3	3012.4	2949.1	2884.7	2858.9	2846.0	2846.0
22.5°	3090.7	3128.3	3141.2	3141.2	3076.8	2999.5	2962.0	2897.6	2871.8	2871.8	2871.8
25°	3205.6	3217.4	3205.6	3179.8	3128.3	3051.0	2973.8	2923.3	2897.6	2897.6	2871.8
27.5°	3423.4	3410.5	3371.9	3281.8	3166.9	3090.7	3026.3	2949.1	2884.7	2846.0	2846.0
30°	3794.7	3794.7	3692.8	3487.8	3294.6	3141.2	3063.9	2936.2	2833.2	2808.5	2794.5
32.5°	4269.1	4282.0	4154.2	3820.5	3473.9	3256.0	3090.7	2897.6	2808.5	2782.7	2768.8
35°	4307.7	4410.7	4577.1	4294.8	3756.1	3449.2	3102.5	2897.6	2808.5	2768.8	2768.8
37.5°	3884.9	3884.9	4038.3	4577.1	4204.7	3678.8	3153.0	2909.4	2794.5	2755.9	2744.1
40°	4372.1	4346.3	4154.2	4243.3	4436.5	3949.3	3217.4	2923.3	2782.7	2755.9	2718.3
42.5°	4974.1	4935.5	4654.3	4230.4	3999.7	4257.3	3294.6	2949.1	2768.8	2718.3	2718.3
45°	5935.7	5871.3	5204.9	4615.7	4013.7	4590.0	3435.2	2936.2	2768.8	2666.8	2641.1
47.5°	6269.5	5922.8	4935.5	5025.7	4577.1	4372.1	3449.2	2909.4	2782.7	2589.6	2564.9
50°	5564.4	5397.0	4640.4	4499.8	4769.2	3872.0	3102.5	2884.7	2705.5	2500.5	2512.3
52.5°	5730.7	5550.4	3986.8	3564.0	4461.2	3705.7	3038.1	2794.5	2705.5	2410.3	2410.3
55°	5153.4	4794.9	3435.2	3384.8	4013.7	3307.5	2884.7	2691.5	2730.1	2256.9	2256.9
57.5°	5345.5	4962.3	3410.5	3435.2	3244.2	2871.8	2755.9	2602.4	2384.6	2089.5	2076.6
60°	5204.9	4743.4	3141.2	3461.0	2987.7	2744.1	2641.1	2474.7	2179.6	1961.8	1948.9
62.5°	3667.0	3449.2	2884.7	2679.7	2538.0	2589.6	2500.5	2321.3	2039.0	1795.4	1795.4
65°	3410.5	2949.1	2282.6	1871.6	1768.6	2397.5	2307.3	2141.0	1833.0	1616.2	1640.9
67.5°	2602.4	1692.4	1179.4	1037.8	1037.8	2153.9	2063.7	2063.7	1640.9	1423.0	1435.9
70°	2089.5	1013.1	769.5	705.1	755.5	1487.4	1435.9	1525.0	1334.0	1179.4	1205.2
72.5°	1628.0	755.5	602.0	576.3	602.0	769.5	795.2	858.5	833.9	819.9	872.5
75°	1063.5	538.7	461.5	448.6	500.1	525.9	564.5	576.3	576.3	590.2	614.9
77.5°	602.0	358.4	320.9	332.7	372.4	397.1	435.7	448.6	448.6	461.5	487.2
80°	320.9	217.9	217.9	217.9	243.6	282.2	320.9	320.9	320.9	320.9	332.7
82.5°	140.6	114.8	128.8	128.8	140.6	167.4	167.4	179.2	192.1	192.1	205.0
85°	50.4	50.4	50.4	50.4	50.4	64.4	64.4	90.1	64.4	77.3	103.0
87.5°	25.8	25.8	25.8	25.8	25.8	12.9	25.8	25.8	25.8	12.9	25.8
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)