

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: ITL53280_250MP

Luminaire Tested: **GMX25PXX5SF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: ITL53280_250MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GMX25PXX5SF
Description: 250W MH TYPE V AREA
Light Source: 250 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 22000 (1 lamp)
Luminaire Lumens: 17014.6 lumens
Efficiency: 77.3%
Efficacy: 60.1 lumens/watt
Luminous Opening: Rectangular (W 1.01' x L: 1.03' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

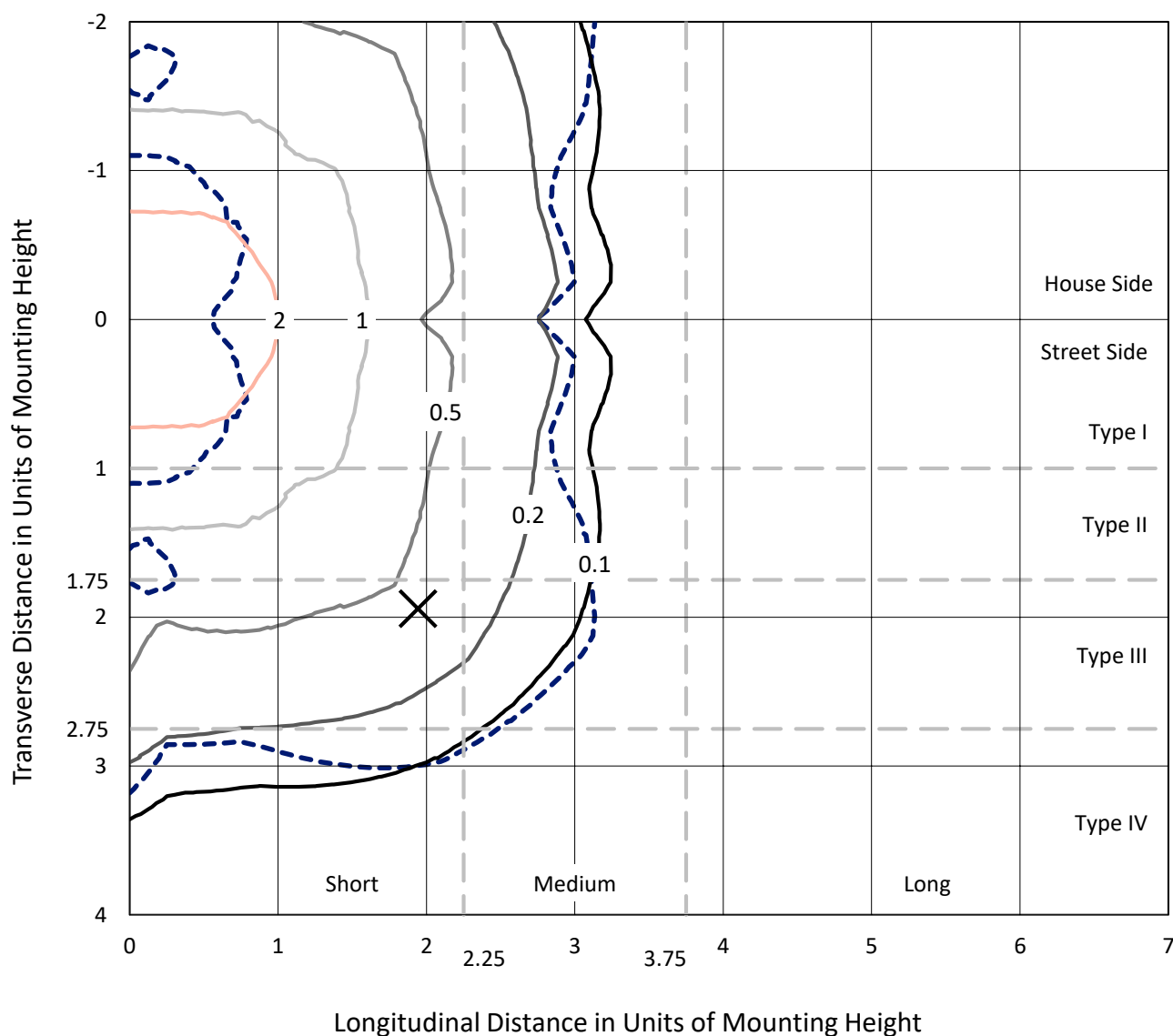
Input Watts (W): 283
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

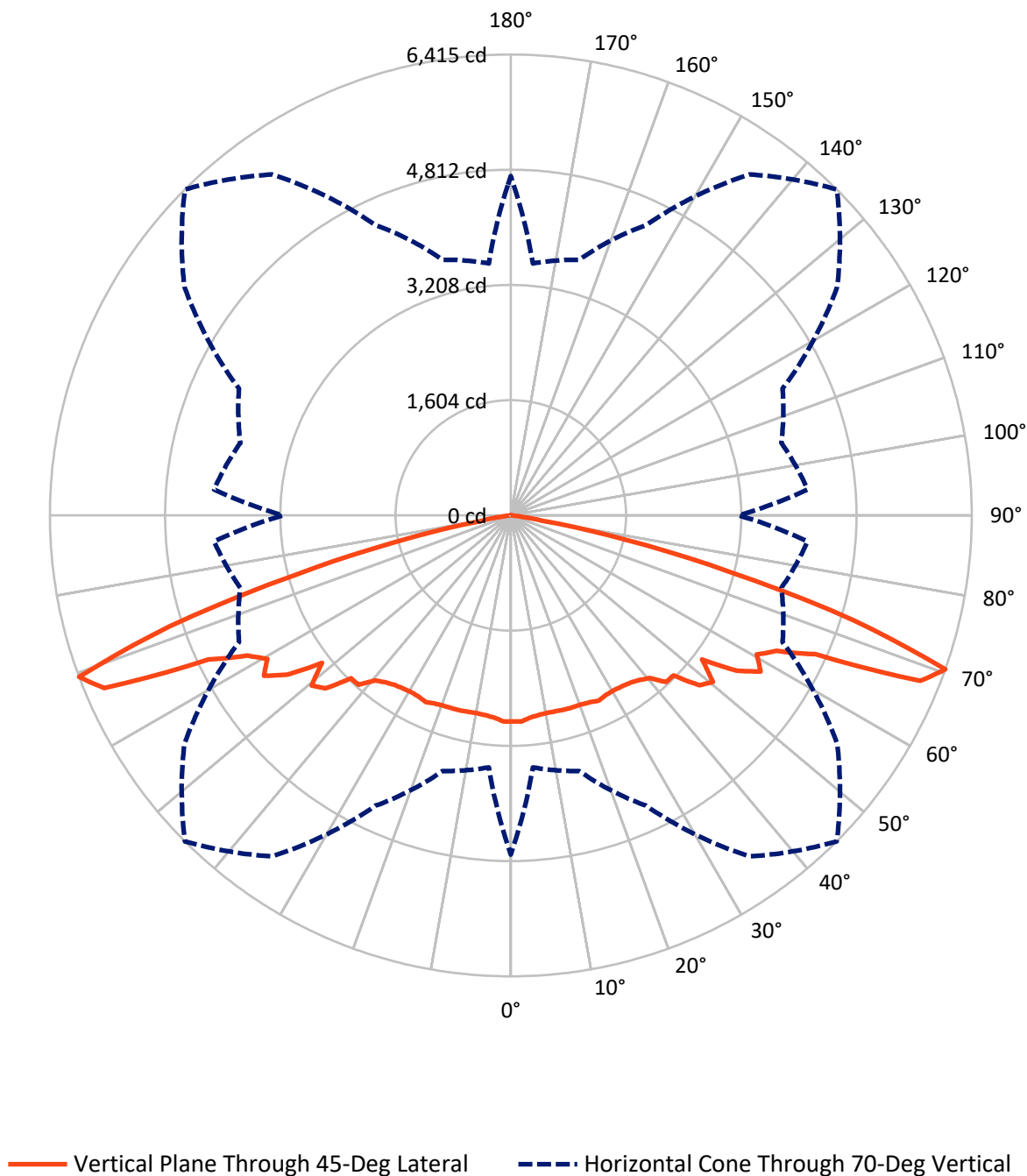
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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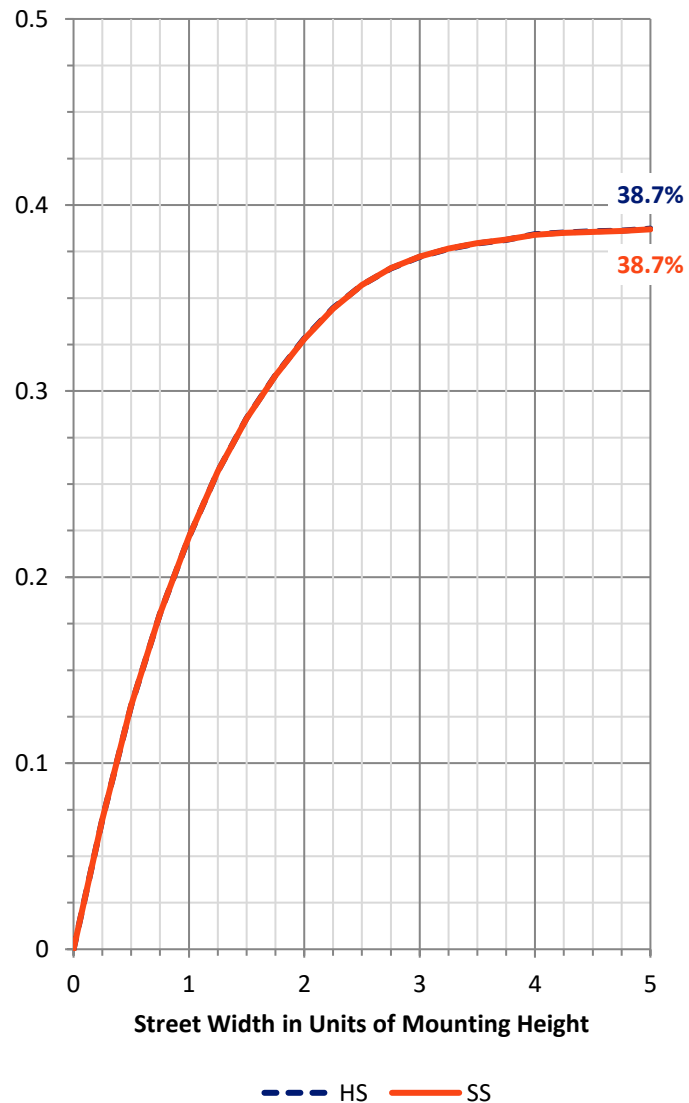
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8507.3	0.0	8507.3
	% Lamp	38.7	0.0	38.7
Street Side	Lumens	8507.3	0.0	8507.3
	% Lamp	38.7	0.0	38.7
Total	Lumens	17014.6	0.0	17014.6
	% Lamp	77.3	0.0	77.3

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	269.1	1.6	1.2
10°-20°	791.8	4.7	3.6
20°-30°	1314.5	7.7	6.0
30°-40°	1777.1	10.4	8.1
40°-50°	2497.2	14.7	11.4
50°-60°	3395.9	20.0	15.4
60°-70°	4374.0	25.7	19.9
70°-80°	2483.6	14.6	11.3
80°-90°	111.4	0.7	0.5
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°	17014.6	100.0	77.3
0°-180°	17014.6	100.0	77.3

Coefficient of Utilization

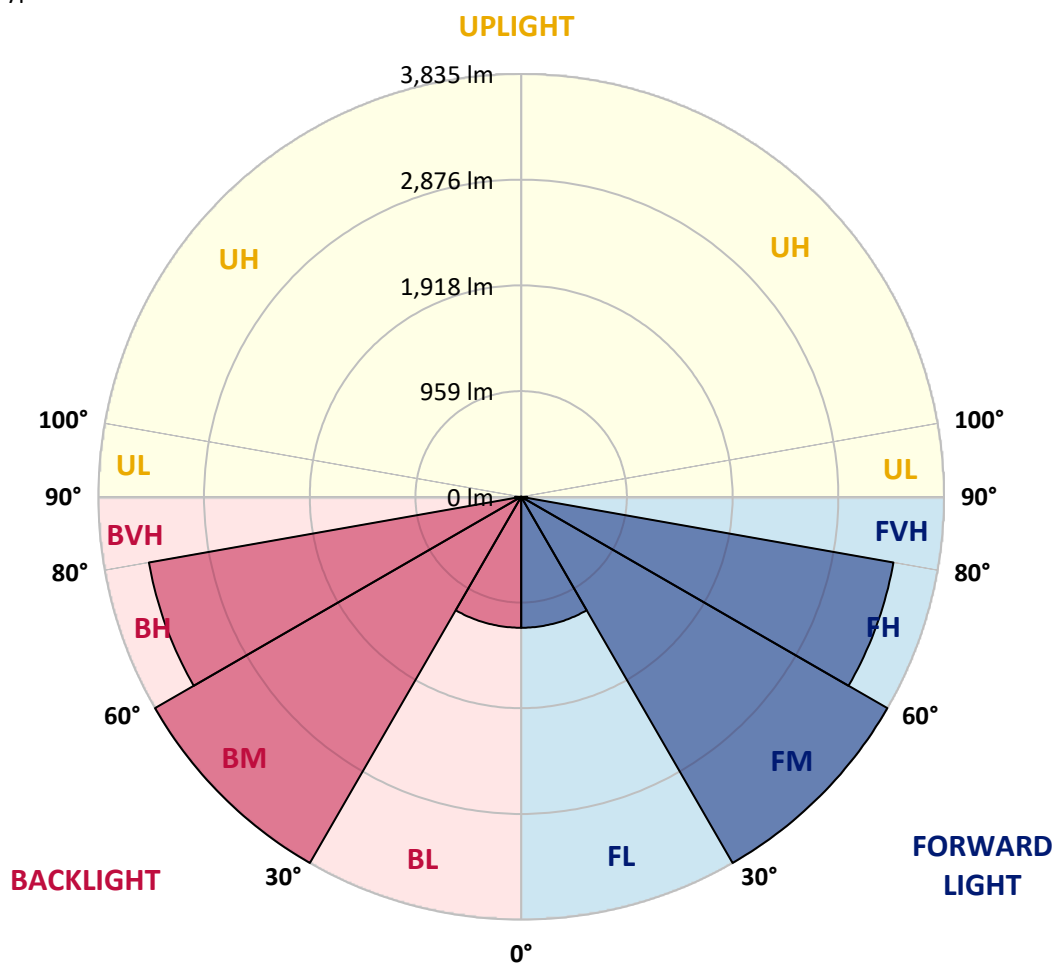


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1187.7	5.4			
FM	(30°-60°)	3835.1	17.4			
FH	(60°-80°)	3428.8	15.6			G2/5000
FVH	(80°-90°)	55.7	0.3			G1/100
BL	(0°-30°)	1187.7	5.4	B3/2500		
BM	(30°-60°)	3835.1	17.4	B3/5000		
BH	(60°-80°)	3428.8	15.6	B4/5000		G2/5000
BVH	(80°-90°)	55.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		4985.4	22.7			

BUG Rating: B4-U0-G2
Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2868.6	2868.6	2868.6	2868.6	2868.6	2868.6	2868.6	2868.6	2868.6	2868.6	2868.6
2.5°	2874.0	2871.8	2877.2	2874.0	2875.0	2870.7	2865.4	2870.7	2864.3	2863.2	2874.0
5°	2821.4	2812.8	2813.9	2817.1	2822.4	2825.7	2830.0	2849.3	2849.3	2842.8	2852.5
7.5°	2790.2	2781.7	2783.8	2792.4	2796.7	2804.2	2805.3	2822.4	2832.1	2826.7	2836.4
10°	2754.8	2750.5	2758.0	2768.8	2781.7	2794.5	2805.3	2819.2	2825.7	2826.7	2836.4
12.5°	2717.3	2709.8	2719.4	2742.0	2767.7	2796.7	2819.2	2841.8	2842.8	2843.9	2853.6
15°	2676.5	2669.0	2686.1	2717.3	2757.0	2803.1	2843.9	2874.0	2872.9	2871.8	2883.6
17.5°	2635.7	2635.7	2658.2	2701.2	2750.5	2807.4	2863.2	2909.4	2915.8	2913.7	2926.5
20°	2598.1	2604.6	2634.6	2678.6	2747.3	2808.5	2881.5	2952.3	2968.4	2967.3	2982.3
22.5°	2626.0	2613.2	2641.1	2676.5	2740.9	2824.6	2907.2	3002.7	3039.2	3046.7	3059.6
25°	2608.9	2599.2	2635.7	2688.3	2757.0	2853.6	2949.1	3062.8	3118.6	3125.1	3134.7
27.5°	2509.1	2503.7	2558.4	2642.1	2730.1	2828.9	2958.7	3085.4	3155.1	3158.3	3172.3
30°	2425.4	2418.9	2472.6	2560.6	2694.7	2823.5	2971.6	3089.7	3161.6	3159.4	3173.4
32.5°	2380.3	2374.9	2415.7	2512.3	2669.0	2837.5	2971.6	3086.4	3168.0	3180.9	3191.6
35°	2340.6	2339.5	2390.0	2501.6	2662.5	2861.1	2980.2	3101.5	3183.0	3197.0	3208.8
37.5°	2351.3	2344.9	2410.3	2543.4	2717.3	2907.2	3024.2	3140.1	3218.4	3242.0	3259.2
40°	2399.6	2406.0	2487.6	2650.7	2820.3	2975.9	3090.7	3200.2	3279.6	3298.9	3316.1
42.5°	2569.2	2579.9	2647.5	2822.4	2985.6	3169.1	3145.5	3233.5	3356.9	3378.3	3375.1
45°	2910.4	2900.8	2912.6	3077.9	3096.1	3176.6	3218.4	3277.5	3444.9	3535.0	3569.4
47.5°	3122.9	3126.1	3037.1	3168.0	3285.0	3531.8	3214.1	3319.3	3674.5	3771.1	3756.1
50°	3437.4	3404.1	3362.2	3561.9	3833.4	3644.5	3839.8	3660.6	3723.9	4062.0	3968.6
52.5°	3105.8	3096.1	3247.4	3393.4	3342.9	3334.3	3493.2	3411.6	3747.5	4090.9	4042.6
55°	3311.8	3286.0	3377.3	3583.3	3667.0	3815.1	3645.6	3606.9	4167.1	4431.1	4155.3
57.5°	3111.1	3058.5	3640.2	3852.7	4552.4	4098.4	5027.8	4794.9	4159.6	4444.0	4039.4
60°	3081.1	2832.1	3314.0	3902.0	3652.0	3932.1	5027.8	4184.3	3843.0	3908.5	3626.2
62.5°	3559.7	3309.7	3557.6	4244.4	4254.0	4153.2	4332.4	3874.1	4080.2	3766.8	3268.9
65°	4752.0	3836.6	4288.4	4808.9	4580.3	4660.8	5316.5	4597.5	4520.2	4262.6	3476.0
67.5°	5385.2	4037.3	4331.3	4863.6	5468.9	6147.1	5350.8	4484.8	4444.0	4585.7	3595.1
70°	4722.0	3520.0	3683.1	4458.0	5793.0	6415.4	5545.1	4173.6	3897.8	4145.7	3168.0
72.5°	3190.5	2372.8	2593.9	3469.6	4462.2	4996.7	4215.4	3591.9	2329.9	2696.9	1799.7
75°	1807.2	1306.0	1490.6	2288.0	2934.0	3161.6	3327.9	2617.5	1650.5	1830.8	1103.2
77.5°	848.9	628.9	729.8	1122.5	1486.3	1646.2	1764.3	1908.1	856.4	951.9	599.9
80°	382.0	299.4	337.0	427.1	443.2	434.6	590.2	584.9	366.0	348.8	251.1
82.5°	148.1	134.1	140.6	157.8	142.7	127.7	136.3	142.7	143.8	122.3	108.4
85°	55.8	52.6	51.5	54.7	48.3	46.1	46.1	46.1	49.4	42.9	44.0
87.5°	11.8	10.7	10.7	11.8	10.7	9.7	8.6	8.6	10.7	8.6	10.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2868.6	2868.6	2868.6	2868.6	2868.6	2868.6	2868.6	2868.6	2868.6	2868.6
2.5°	2863.2	2864.3	2870.7	2865.4	2870.7	2875.0	2874.0	2877.2	2871.8	2874.0
5°	2842.8	2849.3	2849.3	2830.0	2825.7	2822.4	2817.1	2813.9	2812.8	2821.4
7.5°	2826.7	2832.1	2822.4	2805.3	2804.2	2796.7	2792.4	2783.8	2781.7	2790.2
10°	2826.7	2825.7	2819.2	2805.3	2794.5	2781.7	2768.8	2758.0	2750.5	2754.8
12.5°	2843.9	2842.8	2841.8	2819.2	2796.7	2767.7	2742.0	2719.4	2709.8	2717.3
15°	2871.8	2872.9	2874.0	2843.9	2803.1	2757.0	2717.3	2686.1	2669.0	2676.5
17.5°	2913.7	2915.8	2909.4	2863.2	2807.4	2750.5	2701.2	2658.2	2635.7	2635.7
20°	2967.3	2968.4	2952.3	2881.5	2808.5	2747.3	2678.6	2634.6	2604.6	2598.1
22.5°	3046.7	3039.2	3002.7	2907.2	2824.6	2740.9	2676.5	2641.1	2613.2	2626.0
25°	3125.1	3118.6	3062.8	2949.1	2853.6	2757.0	2688.3	2635.7	2599.2	2608.9
27.5°	3158.3	3155.1	3085.4	2958.7	2828.9	2730.1	2642.1	2558.4	2503.7	2509.1
30°	3159.4	3161.6	3089.7	2971.6	2823.5	2694.7	2560.6	2472.6	2418.9	2425.4
32.5°	3180.9	3168.0	3086.4	2971.6	2837.5	2669.0	2512.3	2415.7	2374.9	2380.3
35°	3197.0	3183.0	3101.5	2980.2	2861.1	2662.5	2501.6	2390.0	2339.5	2340.6
37.5°	3242.0	3218.4	3140.1	3024.2	2907.2	2717.3	2543.4	2410.3	2344.9	2351.3
40°	3298.9	3279.6	3200.2	3090.7	2975.9	2820.3	2650.7	2487.6	2406.0	2399.6
42.5°	3378.3	3356.9	3233.5	3145.5	3169.1	2985.6	2822.4	2647.5	2579.9	2569.2
45°	3535.0	3444.9	3277.5	3218.4	3176.6	3096.1	3077.9	2912.6	2900.8	2910.4
47.5°	3771.1	3674.5	3319.3	3214.1	3531.8	3285.0	3168.0	3037.1	3126.1	3122.9
50°	4062.0	3723.9	3660.6	3839.8	3644.5	3833.4	3561.9	3362.2	3404.1	3437.4
52.5°	4090.9	3747.5	3411.6	3493.2	3334.3	3342.9	3393.4	3247.4	3096.1	3105.8
55°	4431.1	4167.1	3606.9	3645.6	3815.1	3667.0	3583.3	3377.3	3286.0	3311.8
57.5°	4444.0	4159.6	4794.9	5027.8	4098.4	4552.4	3852.7	3640.2	3058.5	3111.1
60°	3908.5	3843.0	4184.3	5027.8	3932.1	3652.0	3902.0	3314.0	2832.1	3081.1
62.5°	3766.8	4080.2	3874.1	4332.4	4153.2	4254.0	4244.4	3557.6	3309.7	3559.7
65°	4262.6	4520.2	4597.5	5316.5	4660.8	4580.3	4808.9	4288.4	3836.6	4752.0
67.5°	4585.7	4444.0	4484.8	5350.8	6147.1	5468.9	4863.6	4331.3	4037.3	5385.2
70°	4145.7	3897.8	4173.6	5545.1	6415.4	5793.0	4458.0	3683.1	3520.0	4722.0
72.5°	2696.9	2329.9	3591.9	4215.4	4996.7	4462.2	3469.6	2593.9	2372.8	3190.5
75°	1830.8	1650.5	2617.5	3327.9	3161.6	2934.0	2288.0	1490.6	1306.0	1807.2
77.5°	951.9	856.4	1908.1	1764.3	1646.2	1486.3	1122.5	729.8	628.9	848.9
80°	348.8	366.0	584.9	590.2	434.6	443.2	427.1	337.0	299.4	382.0
82.5°	122.3	143.8	142.7	136.3	127.7	142.7	157.8	140.6	134.1	148.1
85°	42.9	49.4	46.1	46.1	46.1	48.3	54.7	51.5	52.6	55.8
87.5°	8.6	10.7	8.6	8.6	9.7	10.7	11.8	10.7	10.7	11.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)