

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: 768350_250MP

Luminaire Tested: **TRU25PXX5F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768350_250MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TRU25PXX5F
Description: ARCHITECTURAL AREA LUMINAIRE - TYPE V
Light Source: 250 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 22000 (1 lamp)
Luminaire Lumens: 13521 lumens
Efficiency: 61.5%
Efficacy: 47.8 lumens/watt
Luminous Opening: Rectangular (W 1.08' x L: 1.08' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

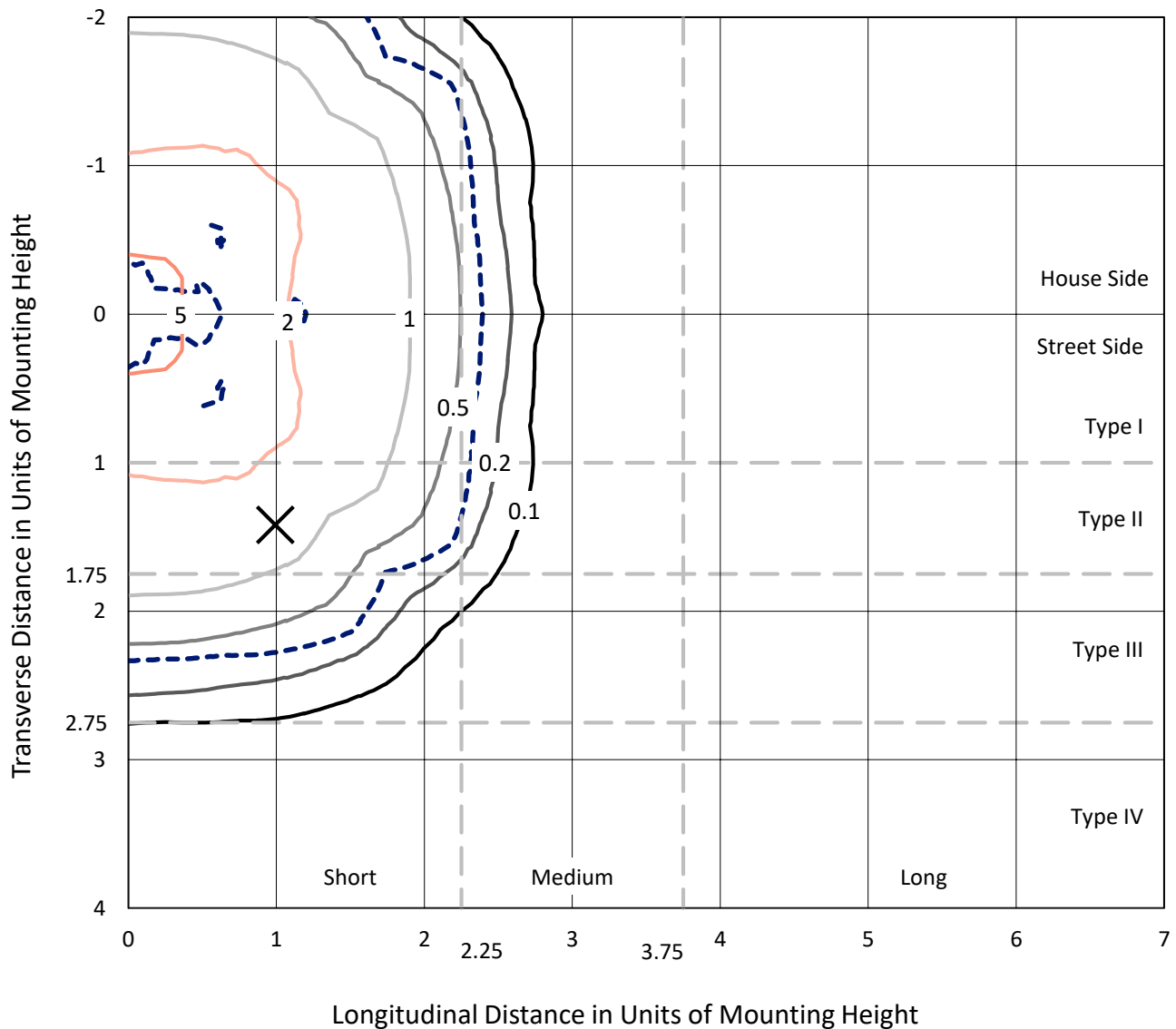
Input Watts (W): 283
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

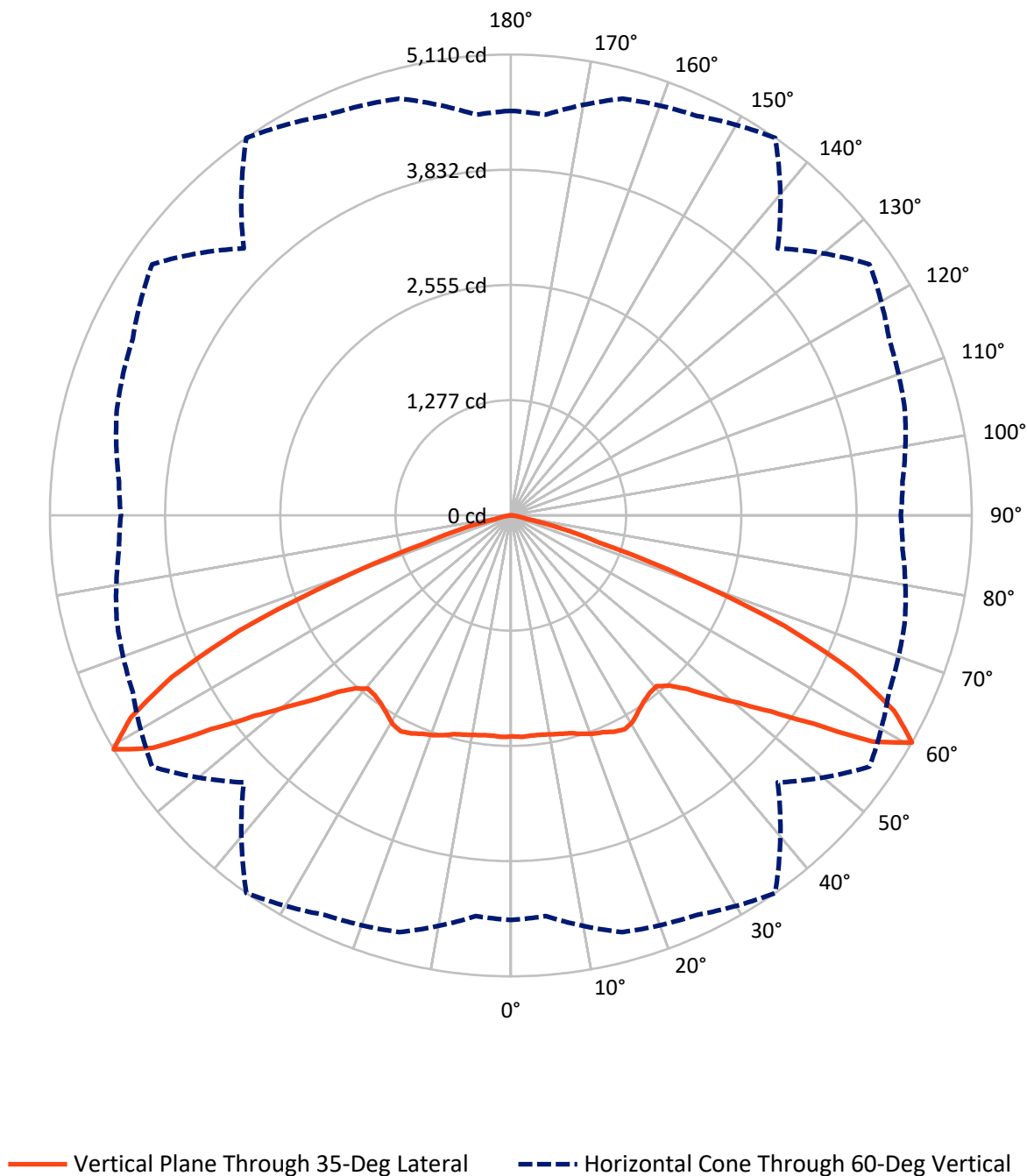
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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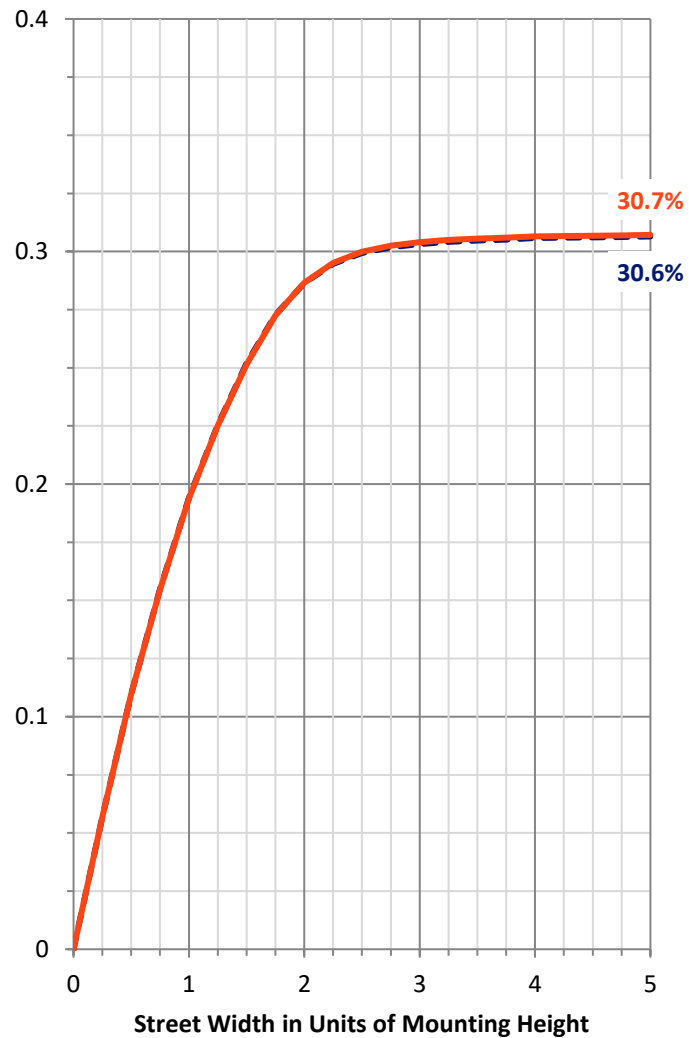
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6760.5	0.0	6760.5
	% Lamp	30.7	0.0	30.7
Street Side	Lumens	6760.5	0.0	6760.5
	% Lamp	30.7	0.0	30.7
Total	Lumens	13521.0	0.0	13521.0
	% Lamp	61.5	0.0	61.5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	233.3	1.7	1.1
10°-20°	699.6	5.2	3.2
20°-30°	1177.8	8.7	5.4
30°-40°	1672.4	12.4	7.6
40°-50°	2232.3	16.5	10.1
50°-60°	3441.2	25.5	15.6
60°-70°	3431.3	25.4	15.6
70°-80°	593.3	4.4	2.7
80°-90°	39.8	0.3	0.2
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°	13521.0	100.0	61.5
0°-180°	13521.0	100.0	61.5

Coefficient of Utilization



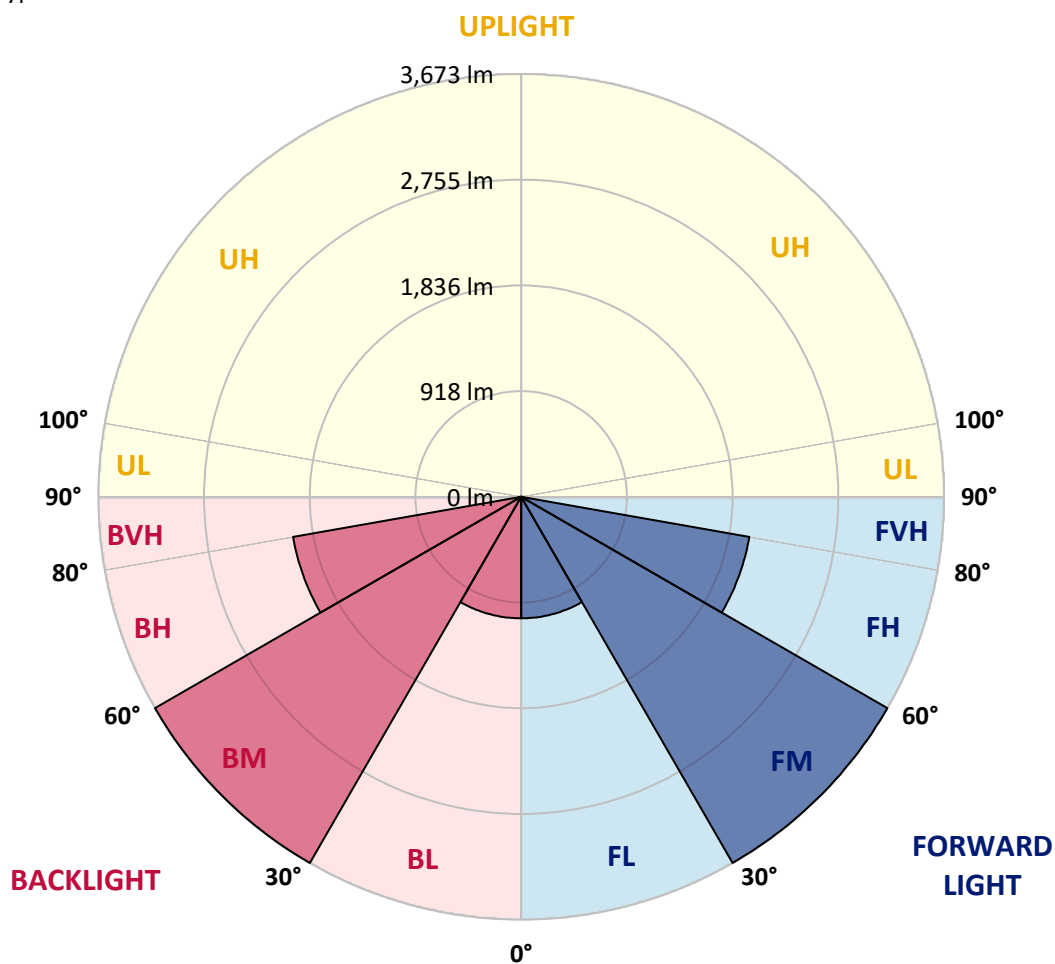
--- HS — SS

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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°)	1055.3	4.8			
FM	(30°-60°)	3672.9	16.7			
FH	(60°-80°)	2012.3	9.1			G2/5000
FVH	(80°-90°)	19.9	0.1			G1/100
BL	(0°-30°)	1055.3	4.8	B3/2500		
BM	(30°-60°)	3672.9	16.7	B3/5000		
BH	(60°-80°)	2012.3	9.1	B3/2500		G2/5000
BVH	(80°-90°)	19.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		8479.0	38.5			

BUG Rating: B3-U0-G2
Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2450.3	2450.3	2450.3	2450.3	2450.3	2450.3	2450.3	2450.3	2450.3	2450.3	2450.3
2.5°	2460.8	2446.2	2447.4	2445.0	2457.8	2446.2	2446.8	2432.8	2452.6	2456.7	2425.8
5°	2454.9	2444.4	2444.4	2439.2	2450.8	2437.5	2437.5	2429.9	2452.6	2456.1	2431.6
7.5°	2437.5	2431.6	2436.9	2437.5	2454.3	2443.9	2444.4	2437.5	2443.3	2447.4	2414.2
10°	2437.5	2427.0	2435.7	2449.1	2467.7	2454.9	2452.6	2441.5	2447.4	2437.5	2408.3
12.5°	2438.0	2427.0	2435.7	2448.5	2484.0	2459.0	2457.3	2432.8	2428.7	2428.7	2401.3
15°	2439.2	2427.0	2446.2	2467.2	2504.4	2485.2	2485.2	2446.2	2434.5	2415.3	2385.6
17.5°	2454.9	2446.2	2466.6	2502.7	2546.9	2527.7	2531.8	2466.6	2443.3	2407.7	2379.2
20°	2498.6	2485.2	2496.9	2531.8	2584.2	2570.8	2559.8	2484.6	2449.1	2415.3	2385.0
22.5°	2527.7	2508.5	2508.5	2540.5	2610.4	2616.3	2586.0	2499.8	2450.3	2431.6	2408.3
25°	2513.2	2503.3	2510.3	2564.4	2656.4	2676.2	2636.6	2533.6	2461.3	2435.1	2406.0
27.5°	2487.0	2489.9	2524.8	2578.4	2686.1	2699.5	2642.5	2511.4	2470.7	2429.9	2411.2
30°	2484.0	2507.3	2572.6	2551.6	2658.2	2696.6	2616.8	2484.6	2474.7	2466.0	2437.5
32.5°	2583.1	2603.4	2675.1	2546.4	2592.4	2653.5	2555.1	2493.4	2523.7	2534.7	2505.0
35°	2784.0	2831.8	2884.2	2588.9	2536.5	2583.1	2501.5	2542.3	2699.5	2662.3	2601.1
37.5°	2984.9	3047.3	3095.6	2678.6	2499.8	2520.2	2467.7	2642.5	2872.5	2786.3	2743.2
40°	3002.4	3089.8	3223.7	2810.2	2489.9	2482.3	2463.1	2752.0	3014.1	2887.1	2842.2
42.5°	2836.4	2936.6	3252.8	2972.1	2579.0	2524.8	2558.0	2901.6	3074.6	2851.0	2804.4
45°	2614.5	2705.4	3139.3	3125.9	2743.2	2690.8	2769.4	3046.1	3016.4	2680.3	2623.2
47.5°	2469.5	2548.1	2948.2	3191.1	2996.6	2920.3	3026.9	3133.5	2900.5	2493.9	2428.1
50°	2563.3	2563.8	2826.5	3222.0	3265.7	3247.0	3334.4	3276.1	2816.0	2427.0	2358.8
52.5°	3069.4	3031.5	2976.2	3322.2	3611.0	3581.3	3696.7	3517.9	2957.6	2687.9	2728.7
55°	4083.4	3958.2	3758.4	3590.7	4078.1	3994.9	4152.7	3721.7	3276.7	3344.3	3331.5
57.5°	4778.2	4778.8	4799.2	4462.5	4730.5	4198.1	4648.9	3991.4	4102.6	4047.9	4004.8
60°	4484.7	4458.5	4782.9	4886.0	5109.6	4185.9	4854.5	4625.6	4522.5	4360.0	4322.8
62.5°	3823.6	3823.6	4161.4	4423.5	4766.0	4059.5	5022.3	4580.8	4287.8	3993.1	3905.2
65°	3145.7	3200.4	3392.6	3725.8	4160.9	3436.9	4598.3	4050.8	3600.0	3371.1	3284.9
67.5°	2244.7	2205.6	2382.1	2833.5	3270.9	2616.3	3468.9	2973.3	2546.4	2411.2	2457.3
70°	1019.2	1007.6	1185.2	1650.6	2064.7	1756.6	2283.1	1827.7	1081.6	1001.8	1086.2
72.5°	632.5	655.2	701.2	760.1	1002.9	927.8	937.7	793.8	712.3	781.6	789.8
75°	309.3	364.6	421.7	482.8	588.3	488.1	565.5	502.1	443.2	373.3	338.4
77.5°	148.5	146.2	152.6	154.9	171.2	177.6	181.1	170.7	164.8	175.3	168.3
80°	89.7	93.2	93.8	99.0	106.6	115.3	110.1	106.0	100.2	103.7	97.3
82.5°	60.6	62.3	56.5	58.8	65.2	68.7	68.7	67.0	62.9	64.1	61.7
85°	19.2	18.6	18.6	18.1	17.5	18.6	18.6	19.2	18.1	17.5	18.6
87.5°	14.0	14.0	13.4	12.2	12.8	12.8	12.8	12.8	13.4	13.4	13.4
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°	2450.3	2450.3	2450.3	2450.3	2450.3	2450.3	2450.3	2450.3	2450.3	2450.3
2.5°	2456.7	2452.6	2432.8	2446.8	2446.2	2457.8	2445.0	2447.4	2446.2	2460.8
5°	2456.1	2452.6	2429.9	2437.5	2437.5	2450.8	2439.2	2444.4	2444.4	2454.9
7.5°	2447.4	2443.3	2437.5	2444.4	2443.9	2454.3	2437.5	2436.9	2431.6	2437.5
10°	2437.5	2447.4	2441.5	2452.6	2454.9	2467.7	2449.1	2435.7	2427.0	2437.5
12.5°	2428.7	2428.7	2432.8	2457.3	2459.0	2484.0	2448.5	2435.7	2427.0	2438.0
15°	2415.3	2434.5	2446.2	2485.2	2485.2	2504.4	2467.2	2446.2	2427.0	2439.2
17.5°	2407.7	2443.3	2466.6	2531.8	2527.7	2546.9	2502.7	2466.6	2446.2	2454.9
20°	2415.3	2449.1	2484.6	2559.8	2570.8	2584.2	2531.8	2496.9	2485.2	2498.6
22.5°	2431.6	2450.3	2499.8	2586.0	2616.3	2610.4	2540.5	2508.5	2508.5	2527.7
25°	2435.1	2461.3	2533.6	2636.6	2676.2	2656.4	2564.4	2510.3	2503.3	2513.2
27.5°	2429.9	2470.7	2511.4	2642.5	2699.5	2686.1	2578.4	2524.8	2489.9	2487.0
30°	2466.0	2474.7	2484.6	2616.8	2696.6	2658.2	2551.6	2572.6	2507.3	2484.0
32.5°	2534.7	2523.7	2493.4	2555.1	2653.5	2592.4	2546.4	2675.1	2603.4	2583.1
35°	2662.3	2699.5	2542.3	2501.5	2583.1	2536.5	2588.9	2884.2	2831.8	2784.0
37.5°	2786.3	2872.5	2642.5	2467.7	2520.2	2499.8	2678.6	3095.6	3047.3	2984.9
40°	2887.1	3014.1	2752.0	2463.1	2482.3	2489.9	2810.2	3223.7	3089.8	3002.4
42.5°	2851.0	3074.6	2901.6	2558.0	2524.8	2579.0	2972.1	3252.8	2936.6	2836.4
45°	2680.3	3016.4	3046.1	2769.4	2690.8	2743.2	3125.9	3139.3	2705.4	2614.5
47.5°	2493.9	2900.5	3133.5	3026.9	2920.3	2996.6	3191.1	2948.2	2548.1	2469.5
50°	2427.0	2816.0	3276.1	3334.4	3247.0	3265.7	3222.0	2826.5	2563.8	2563.3
52.5°	2687.9	2957.6	3517.9	3696.7	3581.3	3611.0	3322.2	2976.2	3031.5	3069.4
55°	3344.3	3276.7	3721.7	4152.7	3994.9	4078.1	3590.7	3758.4	3958.2	4083.4
57.5°	4047.9	4102.6	3991.4	4648.9	4198.1	4730.5	4462.5	4799.2	4778.8	4778.2
60°	4360.0	4522.5	4625.6	4854.5	4185.9	5109.6	4886.0	4782.9	4458.5	4484.7
62.5°	3993.1	4287.8	4580.8	5022.3	4059.5	4766.0	4423.5	4161.4	3823.6	3823.6
65°	3371.1	3600.0	4050.8	4598.3	3436.9	4160.9	3725.8	3392.6	3200.4	3145.7
67.5°	2411.2	2546.4	2973.3	3468.9	2616.3	3270.9	2833.5	2382.1	2205.6	2244.7
70°	1001.8	1081.6	1827.7	2283.1	1756.6	2064.7	1650.6	1185.2	1007.6	1019.2
72.5°	781.6	712.3	793.8	937.7	927.8	1002.9	760.1	701.2	655.2	632.5
75°	373.3	443.2	502.1	565.5	488.1	588.3	482.8	421.7	364.6	309.3
77.5°	175.3	164.8	170.7	181.1	177.6	171.2	154.9	152.6	146.2	148.5
80°	103.7	100.2	106.0	110.1	115.3	106.6	99.0	93.8	93.2	89.7
82.5°	64.1	62.9	67.0	68.7	68.7	65.2	58.8	56.5	62.3	60.6
85°	17.5	18.1	19.2	18.6	18.6	17.5	18.1	18.6	18.6	19.2
87.5°	13.4	13.4	12.8	12.8	12.8	12.8	12.2	13.4	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)