

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: P149089

Luminaire Tested: **TMU-E05-LED-E-U-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P149089
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TMU-E05-LED-E-U-RW-7030
Description: TALON MEDIUM LED AREA LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (105) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14266.2 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 127.3
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

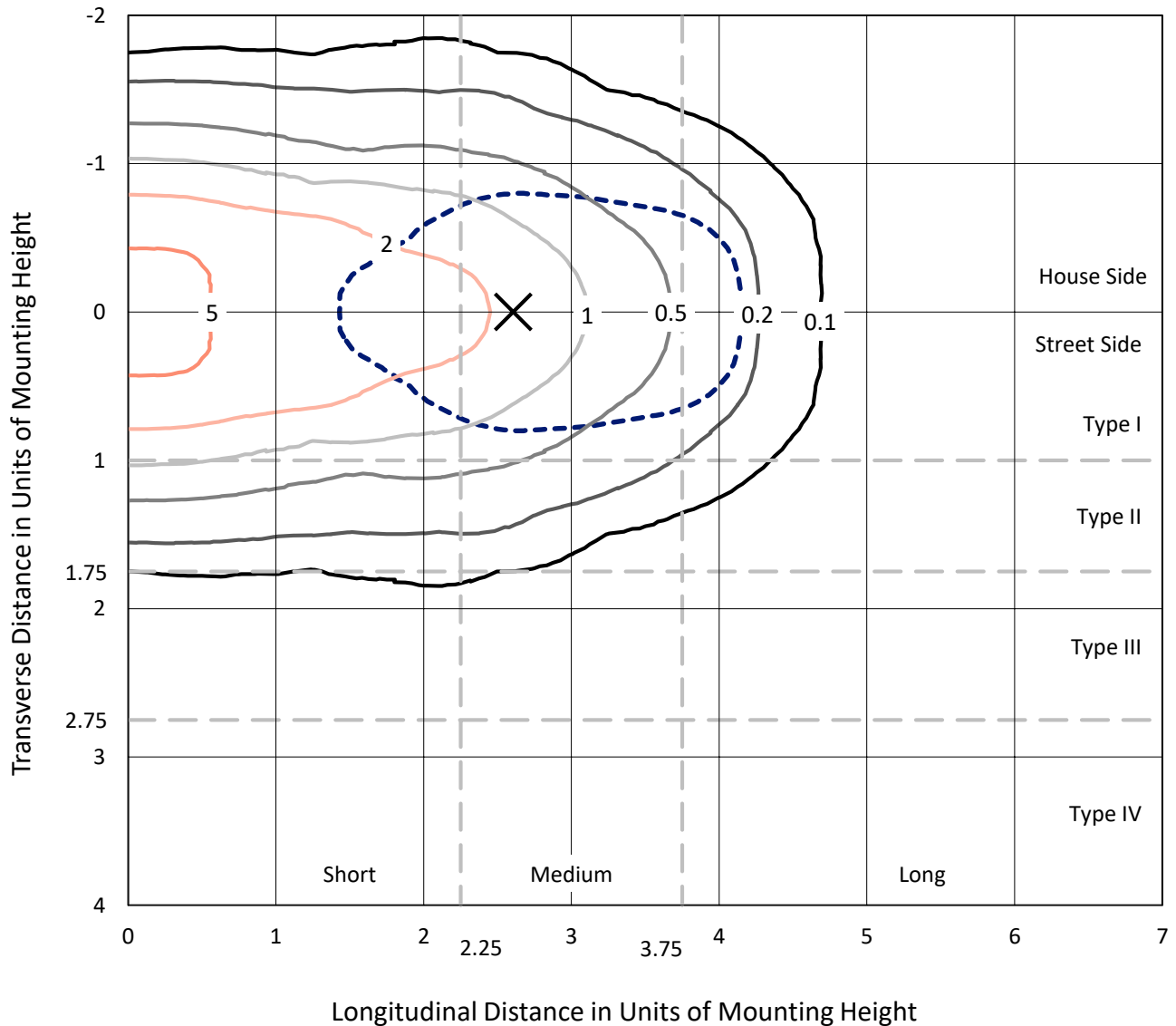


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Iso-Footcandle Lines of Horizontal Illumination

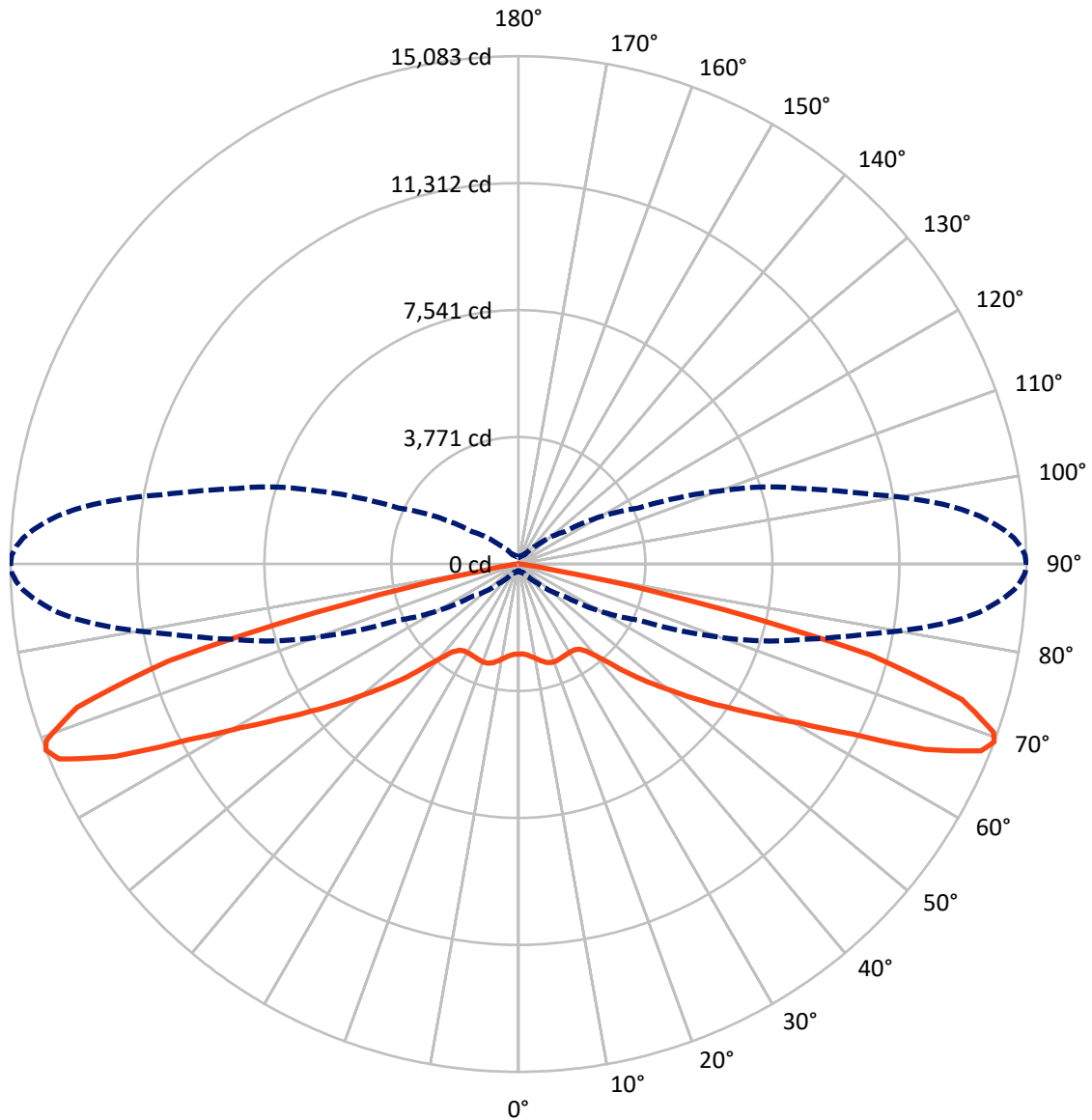
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.8 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7133.1	0.0	7133.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7133.1	0.0	7133.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	14266.2	0.0	14266.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.2	1.8
10°-20°	827.1	5.8
20°-30°	1340.0	9.4
30°-40°	1670.0	11.7
40°-50°	2086.9	14.6
50°-60°	2576.9	18.1
60°-70°	3201.9	22.4
70°-80°	2125.6	14.9
80°-90°	175.5	1.2
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°	14266.2	100.0
0°-180°	14266.2	100.0



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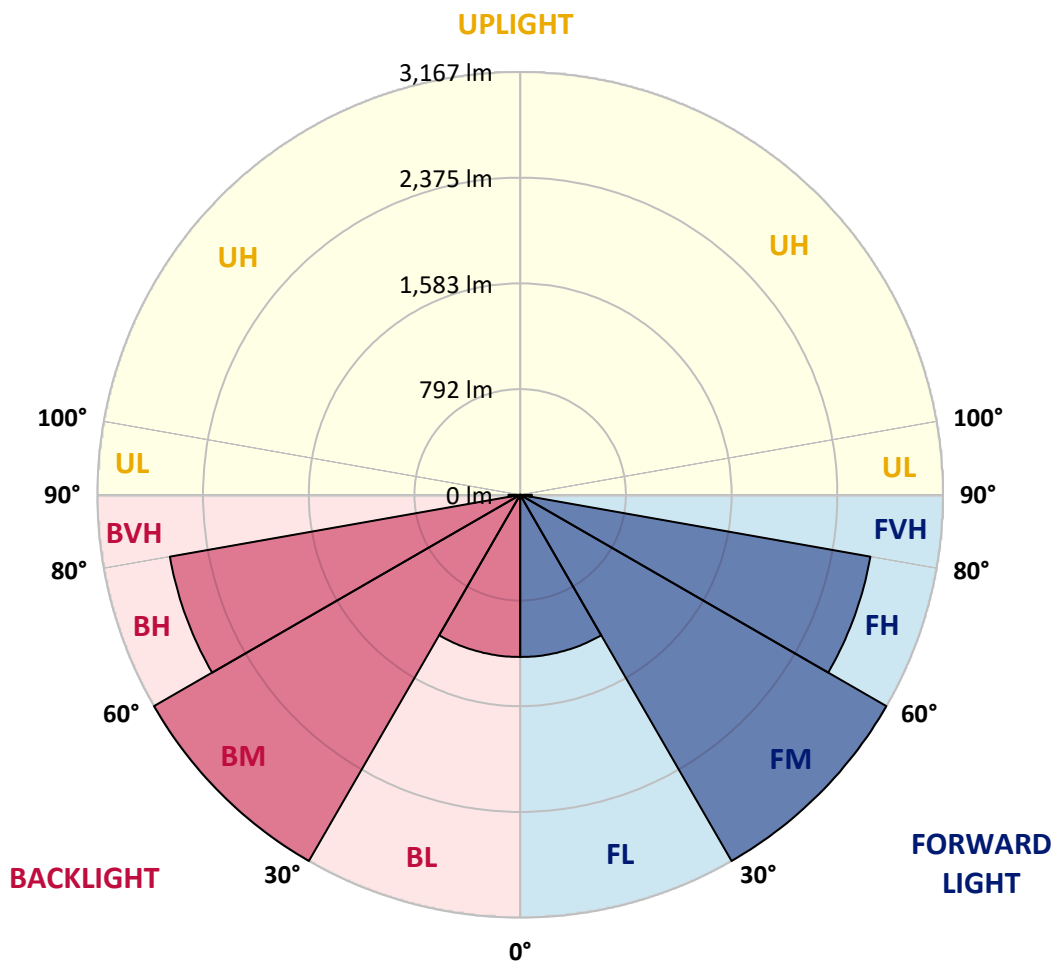
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1214.7	8.5			
FM	(30°-60°)	3166.9	22.2			
FH	(60°-80°)	2663.8	18.7			G2/5000
FVH	(80°-90°)	87.7	0.6			G1/100
BL	(0°-30°)	1214.7	8.5	B3/2500		
BM	(30°-60°)	3166.9	22.2	B3/5000		
BH	(60°-80°)	2663.8	18.7	B4/5000		G2/5000
BVH	(80°-90°)	87.7	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	2673.1	2673.1	2673.1	2673.1	2673.1	2673.1	2673.1	2673.1	2673.1	2673.1	2673.1
2.5°	2685.2	2687.6	2686.0	2689.0	2688.3	2688.2	2686.8	2683.7	2683.3	2682.9	2682.6
5°	2711.1	2708.0	2712.6	2717.2	2715.6	2716.4	2715.7	2715.7	2715.4	2715.1	2714.8
7.5°	2738.6	2737.8	2740.8	2753.0	2754.5	2759.1	2764.4	2768.2	2768.4	2768.5	2768.6
10°	2762.2	2762.9	2770.5	2788.0	2797.2	2811.6	2826.0	2837.5	2838.3	2839.2	2840.0
12.5°	2781.1	2782.0	2793.3	2820.8	2842.9	2870.2	2901.4	2918.9	2920.4	2922.0	2923.5
15°	2782.7	2785.0	2804.8	2849.6	2893.8	2938.7	2976.0	2999.6	3000.8	3002.0	3003.2
17.5°	2762.9	2764.4	2797.9	2864.1	2938.0	3008.0	3046.8	3057.4	3057.9	3058.4	3058.8
20°	2711.1	2715.0	2762.2	2860.3	2973.0	3064.2	3104.6	3090.2	3088.7	3087.3	3085.8
22.5°	2627.4	2626.6	2688.3	2820.7	2979.8	3108.4	3144.2	3106.2	3101.7	3097.2	3092.7
25°	2491.9	2501.0	2573.4	2731.7	2941.0	3118.4	3172.4	3114.5	3108.1	3101.6	3095.1
27.5°	2345.0	2350.4	2427.2	2597.0	2850.4	3084.0	3186.0	3131.3	3124.1	3116.8	3109.6
30°	2173.8	2180.6	2262.9	2440.1	2705.0	2995.8	3182.3	3169.3	3160.8	3152.4	3144.0
32.5°	2006.3	2014.0	2087.8	2281.9	2552.0	2874.8	3159.4	3223.4	3214.7	3206.0	3197.4
35°	1832.8	1844.2	1934.0	2130.4	2404.4	2740.0	3124.4	3292.6	3287.9	3283.1	3278.3
37.5°	1689.0	1691.2	1778.0	1984.2	2267.4	2611.4	3078.0	3380.2	3383.7	3387.2	3390.7
40°	1528.4	1542.8	1629.6	1847.2	2143.4	2502.6	3033.9	3498.9	3517.1	3535.3	3553.5
42.5°	1384.5	1386.0	1474.3	1698.8	2008.6	2415.0	3009.5	3642.0	3680.9	3719.8	3758.7
45°	1233.0	1239.1	1319.0	1535.9	1853.4	2311.5	3008.7	3807.2	3869.3	3931.4	3993.5
47.5°	1089.9	1092.2	1176.7	1378.4	1675.2	2167.0	3003.4	3984.5	4069.1	4153.6	4238.2
50°	953.0	950.6	1033.6	1227.7	1499.4	1977.4	2957.0	4185.4	4292.2	4399.0	4505.8
52.5°	796.1	806.8	892.8	1078.5	1339.6	1784.8	2821.5	4405.4	4533.1	4660.8	4788.5
55°	642.3	647.0	739.0	912.6	1177.5	1605.2	2585.6	4607.8	4758.4	4909.0	5059.5
57.5°	473.4	487.1	567.8	739.0	1013.1	1453.8	2285.6	4712.9	4896.1	5079.3	5262.5
60°	334.2	344.8	416.4	560.2	832.7	1294.6	2027.6	4654.3	4892.4	5130.5	5368.5
62.5°	260.3	268.6	325.8	419.4	649.2	1135.6	1842.7	4464.8	4788.7	5112.6	5436.6
65°	228.3	236.0	287.7	335.6	484.8	973.4	1741.4	4264.6	4692.8	5121.0	5549.2
67.5°	206.2	215.4	260.3	293.8	395.0	849.4	1714.8	4138.2	4623.2	5108.2	5593.2
69°	196.4	205.5	245.8	274.0	366.9	805.3	1669.2	3939.6	4421.8	4904.0	5386.1
70°	190.3	197.9	235.2	264.1	357.8	774.8	1593.0	3691.4	4164.9	4638.4	5111.9
72.5°	176.6	180.4	213.1	241.2	331.8	626.4	1225.4	2741.6	3152.0	3562.5	3973.0
75°	156.0	160.6	191.0	218.4	258.8	388.9	775.6	1695.8	2002.2	2308.7	2615.1
77.5°	134.7	138.6	165.2	208.6	201.0	242.8	463.5	943.8	1121.5	1299.2	1477.0
80°	108.0	112.6	136.2	207.0	165.9	188.8	333.4	659.9	707.8	755.8	803.8
82.5°	79.2	82.9	106.6	167.4	127.2	142.3	254.2	559.4	576.1	592.7	609.4
85°	40.4	41.1	67.8	102.0	80.6	73.8	143.1	382.8	393.5	404.2	414.8
87.5°	6.8	6.8	15.2	17.5	19.8	12.2	18.2	65.5	67.5	69.6	71.6
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	2673.1	2673.1	2673.1	2673.1	2673.1	2673.1	2673.1	2673.1	2673.1	2673.1	2673.1
2.5°	2682.2	2681.8	2680.5	2680.8	2681.7	2681.2	2682.2	2682.4	2683.2	2680.4	2679.8
5°	2714.5	2714.2	2714.0	2713.9	2714.5	2714.3	2715.0	2716.2	2715.9	2714.0	2713.7
7.5°	2768.8	2769.0	2769.7	2769.0	2770.5	2769.7	2768.2	2770.7	2772.3	2772.5	2774.2
10°	2840.8	2841.6	2844.3	2843.9	2846.6	2846.2	2846.6	2849.2	2851.0	2851.3	2853.2
12.5°	2925.0	2926.6	2927.9	2929.3	2932.2	2930.5	2934.1	2935.7	2937.9	2942.5	2940.2
15°	3004.5	3005.7	3009.8	3010.1	3012.7	3013.8	3017.1	3018.5	3019.1	3022.8	3023.3
17.5°	3059.2	3059.7	3061.2	3060.5	3062.8	3062.0	3064.2	3065.5	3067.5	3069.4	3073.0
20°	3084.4	3083.0	3082.1	3081.2	3079.7	3077.3	3078.0	3079.1	3079.4	3081.2	3083.8
22.5°	3088.2	3083.7	3079.1	3075.9	3071.3	3067.4	3063.5	3063.8	3064.1	3063.7	3065.5
25°	3088.7	3082.2	3075.0	3066.2	3059.8	3051.0	3043.8	3043.1	3041.0	3041.1	3042.0
27.5°	3102.4	3095.1	3085.0	3074.8	3060.9	3049.3	3037.6	3033.5	3029.4	3026.8	3025.8
30°	3135.5	3127.0	3115.0	3102.1	3087.0	3068.8	3052.1	3046.9	3041.0	3035.8	3031.4
32.5°	3188.7	3180.0	3166.6	3153.2	3133.0	3115.0	3098.6	3090.2	3081.8	3072.6	3064.3
35°	3273.5	3268.7	3256.9	3245.1	3230.2	3216.1	3201.3	3191.9	3177.9	3170.7	3160.5
37.5°	3394.2	3397.7	3397.7	3399.2	3394.6	3387.8	3377.1	3367.2	3362.6	3343.6	3331.5
40°	3571.6	3589.8	3606.5	3619.4	3630.7	3642.1	3651.8	3646.1	3647.9	3642.9	3635.6
42.5°	3797.6	3836.4	3872.0	3907.6	3933.2	3973.3	4001.2	4010.1	4032.6	4041.4	4057.8
45°	4055.6	4117.7	4177.3	4232.4	4283.8	4341.1	4397.0	4438.6	4483.9	4535.4	4586.9
47.5°	4322.7	4407.3	4495.2	4567.1	4641.3	4726.2	4800.4	4863.0	4944.6	5020.1	5103.2
50°	4612.6	4719.4	4819.4	4908.1	5003.6	5101.4	5203.0	5295.0	5405.2	5526.1	5656.9
52.5°	4916.3	5044.0	5159.8	5271.1	5383.1	5495.2	5603.4	5733.2	5869.2	6028.7	6192.1
55°	5210.0	5360.6	5492.0	5615.7	5744.1	5869.3	5980.9	6154.6	6321.5	6511.8	6725.2
57.5°	5445.7	5628.9	5780.4	5927.4	6072.1	6205.4	6342.4	6538.3	6751.0	6973.6	7244.1
60°	5606.6	5844.7	6038.2	6214.9	6392.4	6560.0	6717.7	6973.7	7226.7	7503.3	7840.0
62.5°	5760.5	6084.4	6336.8	6577.8	6817.2	7032.3	7228.4	7550.5	7881.0	8222.9	8623.4
65°	5977.4	6405.6	6777.4	7113.3	7444.7	7760.9	8054.2	8462.3	8879.6	9329.6	9807.7
67.5°	6078.2	6563.2	7047.3	7500.1	7921.0	8321.4	8698.2	9191.5	9682.6	10204.1	10781.9
69°	5868.3	6350.5	6868.0	7362.6	7827.6	8252.2	8660.0	9163.8	9674.4	10207.0	10789.9
70°	5585.4	6058.9	6581.3	7098.3	7543.1	7985.5	8408.2	8907.9	9425.1	9959.2	10569.3
72.5°	4383.5	4794.0	5303.4	5805.1	6251.4	6695.4	7105.8	7617.3	8137.9	8698.9	9276.6
75°	2921.5	3228.0	3607.4	4073.0	4482.1	4874.6	5272.3	5704.9	6212.9	6675.2	7203.7
77.5°	1654.7	1832.4	2052.9	2355.6	2649.2	2884.1	3167.8	3371.4	3666.2	3920.7	4189.7
80°	851.7	899.6	965.4	1038.0	1079.4	1072.9	1115.0	1073.4	1082.6	1048.6	1012.2
82.5°	626.1	642.8	672.5	687.1	685.6	637.8	586.8	516.2	454.0	388.6	328.7
85°	425.5	436.1	443.6	454.8	451.7	431.0	385.2	323.8	263.9	211.8	169.4
87.5°	73.7	75.7	75.2	81.5	81.8	75.9	62.4	53.3	44.9	33.5	23.6
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):

	80°	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
0°	2673.1	2673.1	2673.1	2673.1	2673.1	2673.1	2673.1	2673.1	2673.1	2673.1	2673.1
2.5°	2679.2	2679.2	2680.7	2679.1	2679.1	2679.1	2678.4	2680.0	2679.2	2676.8	2674.6
5°	2714.2	2711.9	2711.2	2712.6	2714.2	2711.1	2713.4	2715.7	2711.9	2712.7	2711.1
7.5°	2772.8	2772.0	2771.2	2772.8	2772.8	2772.0	2772.8	2770.5	2769.0	2771.2	2773.5
10°	2851.2	2850.4	2852.0	2852.0	2855.0	2853.4	2852.7	2855.0	2853.4	2852.0	2852.7
12.5°	2943.2	2941.0	2944.8	2944.8	2947.0	2947.1	2946.3	2947.0	2946.3	2944.0	2942.5
15°	3025.5	3022.4	3023.2	3029.2	3028.5	3030.0	3030.0	3028.5	3027.8	3027.0	3027.8
17.5°	3075.0	3073.4	3073.4	3076.4	3078.8	3078.0	3078.0	3078.0	3077.2	3078.0	3079.5
20°	3084.0	3084.1	3084.8	3087.9	3091.7	3089.4	3089.5	3090.9	3089.4	3090.9	3091.7
22.5°	3066.6	3068.1	3069.6	3073.4	3074.2	3074.2	3074.2	3074.9	3076.5	3076.4	3078.0
25°	3042.2	3043.8	3046.0	3049.0	3052.1	3052.1	3052.1	3053.6	3053.6	3054.4	3055.2
27.5°	3024.0	3025.5	3027.8	3030.8	3034.6	3034.6	3034.6	3036.2	3036.2	3036.9	3038.4
30°	3026.2	3023.1	3025.5	3027.0	3029.3	3029.3	3028.6	3029.3	3030.0	3030.0	3030.8
32.5°	3059.0	3052.1	3049.8	3049.0	3049.8	3047.6	3046.8	3045.2	3043.7	3043.7	3043.0
35°	3145.7	3135.1	3134.3	3128.2	3122.1	3116.0	3116.8	3112.2	3113.8	3110.0	3106.9
37.5°	3323.8	3311.6	3319.2	3306.3	3298.0	3291.9	3285.0	3275.9	3270.6	3277.4	3277.4
40°	3642.8	3634.4	3632.1	3634.4	3626.8	3630.6	3613.8	3609.2	3599.4	3606.2	3615.3
42.5°	4083.4	4078.1	4107.0	4112.4	4115.4	4120.0	4123.0	4097.9	4097.2	4091.8	4076.6
45°	4627.6	4659.6	4658.0	4693.1	4694.6	4684.0	4688.6	4677.1	4672.6	4655.8	4676.4
47.5°	5187.0	5248.0	5270.8	5278.4	5307.4	5314.2	5286.8	5277.6	5293.6	5266.2	5270.0
50°	5787.6	5853.0	5906.4	5942.1	5962.6	5964.2	5943.6	5939.0	5953.5	5901.8	5926.1
52.5°	6378.2	6477.2	6577.6	6631.0	6669.0	6672.0	6688.0	6669.0	6676.6	6664.4	6688.8
55°	6960.4	7131.8	7249.7	7354.0	7420.2	7477.3	7482.6	7503.2	7504.7	7529.8	7504.7
57.5°	7529.8	7716.3	7921.8	8106.8	8209.5	8274.2	8335.1	8418.0	8436.3	8426.4	8442.4
60°	8201.8	8490.4	8769.7	8982.8	9160.2	9329.9	9421.2	9551.3	9571.9	9628.2	9579.5
62.5°	9051.3	9469.9	9849.0	10135.9	10405.4	10669.5	10868.8	10969.3	11030.2	11148.2	11109.4
65°	10354.4	10856.7	11358.2	11769.2	12146.8	12461.2	12764.0	12908.7	13068.5	13236.0	13266.4
67.5°	11427.5	12049.4	12614.9	13115.7	13573.2	13922.5	14237.6	14488.0	14682.8	14806.2	14816.1
69°	11476.2	12122.4	12736.6	13274.0	13751.2	14122.6	14454.6	14733.1	14922.6	15049.0	15082.5
70°	11243.3	11904.8	12559.3	13102.0	13590.6	13970.4	14322.1	14587.8	14799.3	14928.0	14972.9
72.5°	9933.4	10639.8	11339.2	11814.9	12314.2	12766.3	13048.0	13318.9	13617.2	13656.1	13779.4
75°	7830.4	8424.2	8966.8	9330.6	9747.8	10153.4	10429.7	10501.2	10657.3	10853.6	10783.6
77.5°	4537.8	4720.5	5070.6	5160.4	5084.3	5260.9	5319.5	5194.7	5188.6	5303.6	5075.2
80°	1005.4	948.4	1019.9	966.6	968.2	969.6	953.6	947.6	959.0	947.6	931.6
82.5°	278.6	269.4	271.0	267.9	273.2	269.5	267.2	273.2	272.5	271.7	277.0
85°	134.0	132.4	130.2	129.4	126.4	122.6	116.4	116.4	119.4	114.9	117.2
87.5°	17.5	16.8	16.8	19.8	17.5	14.4	14.4	14.4	13.7	13.7	13.7
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)