

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: P149081

Luminaire Tested: **TMU-E04-LED-E-U-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P149081
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-E04-LED-E-U-RW-7050
Description: TALON MEDIUM LED AREA LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (84) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12822 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (A_{in}): 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

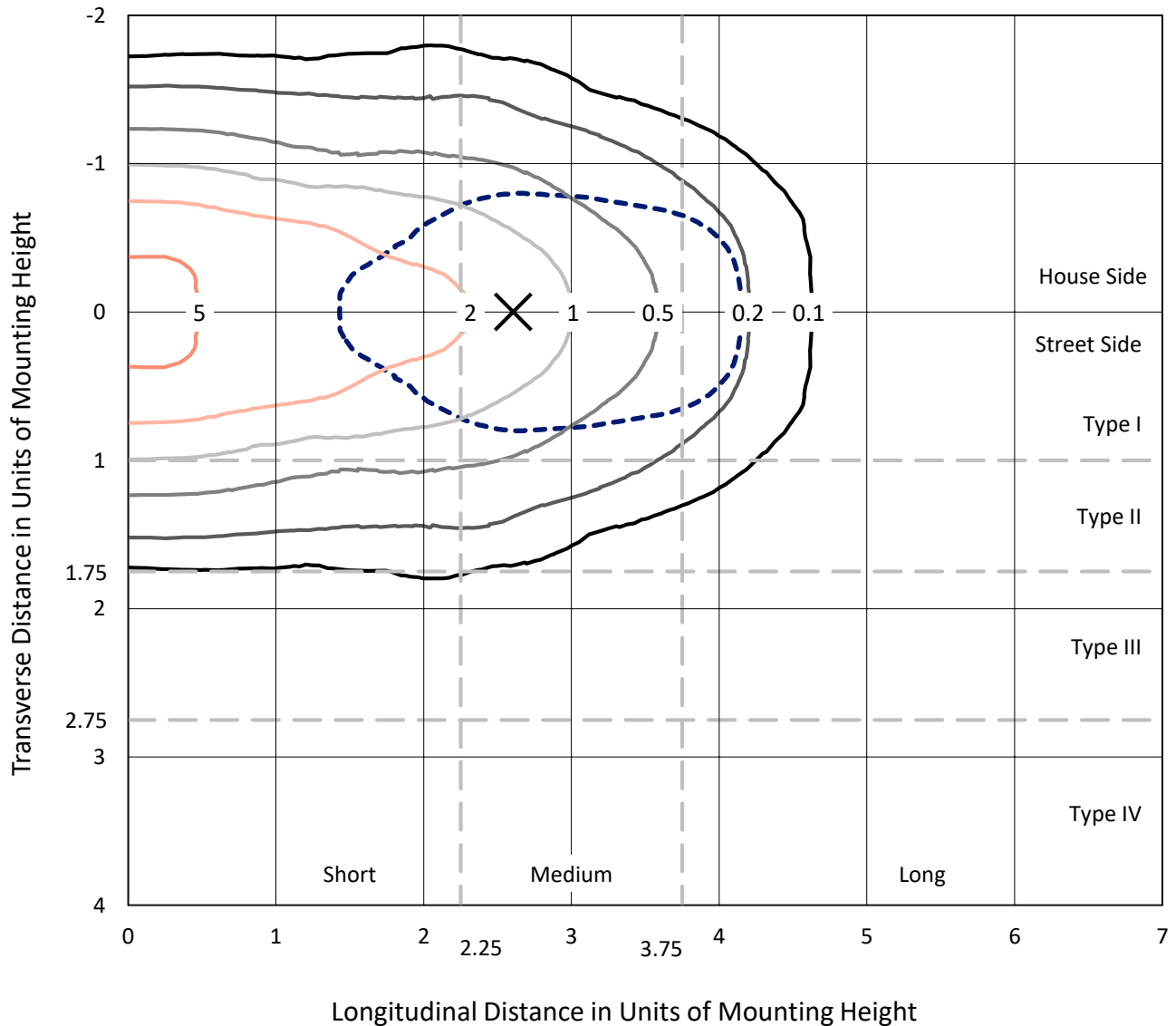


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Iso-Footcandle Lines of Horizontal Illumination

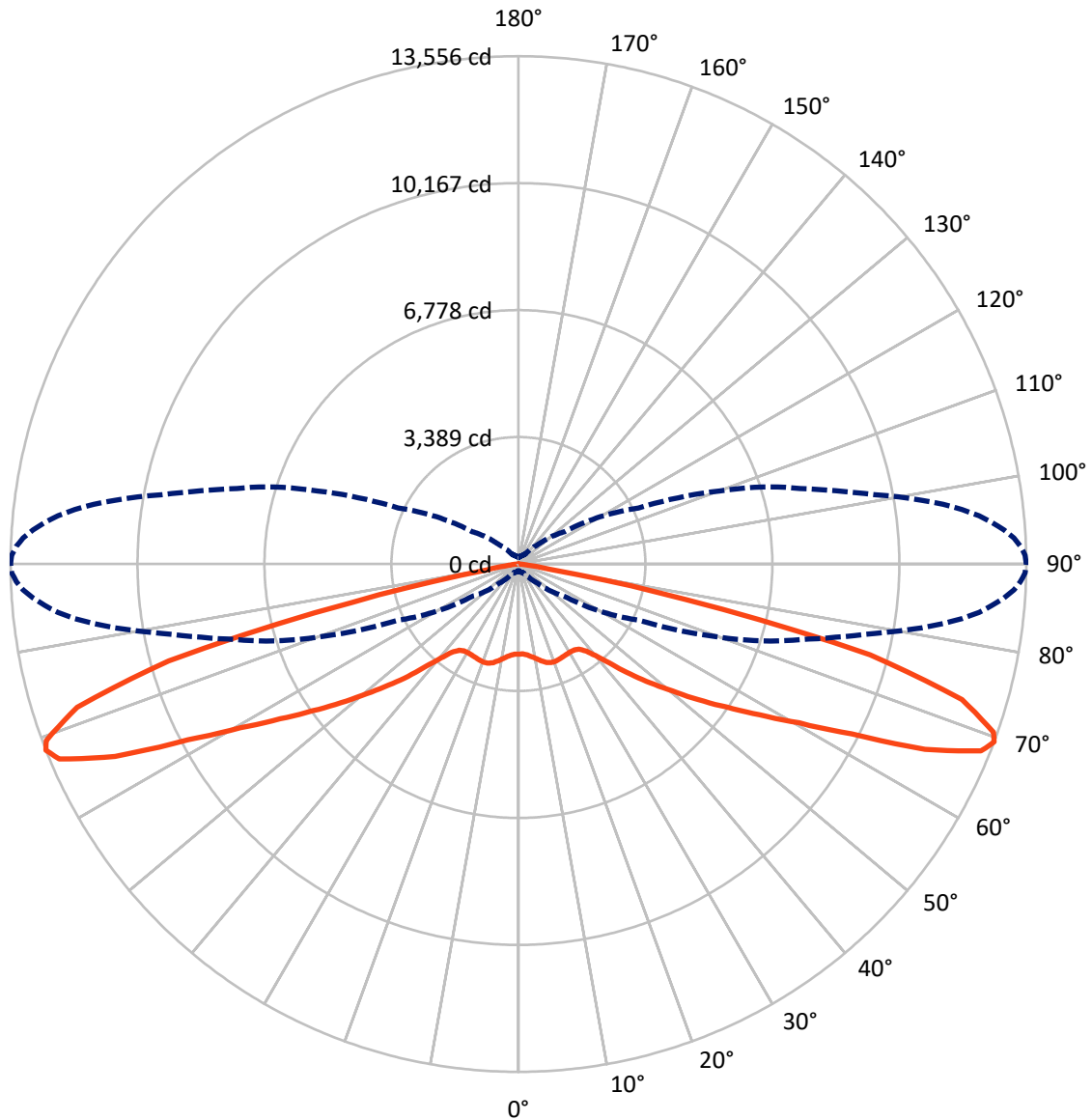
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - 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	6411.0	0.0	6411.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6411.0	0.0	6411.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12822.0	0.0	12822.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.7	1.8
10°-20°	743.4	5.8
20°-30°	1204.4	9.4
30°-40°	1501.0	11.7
40°-50°	1875.6	14.6
50°-60°	2316.0	18.1
60°-70°	2877.8	22.4
70°-80°	1910.4	14.9
80°-90°	157.7	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°	12822.0	100.0
0°-180°	12822.0	100.0

Coefficient of Utilization



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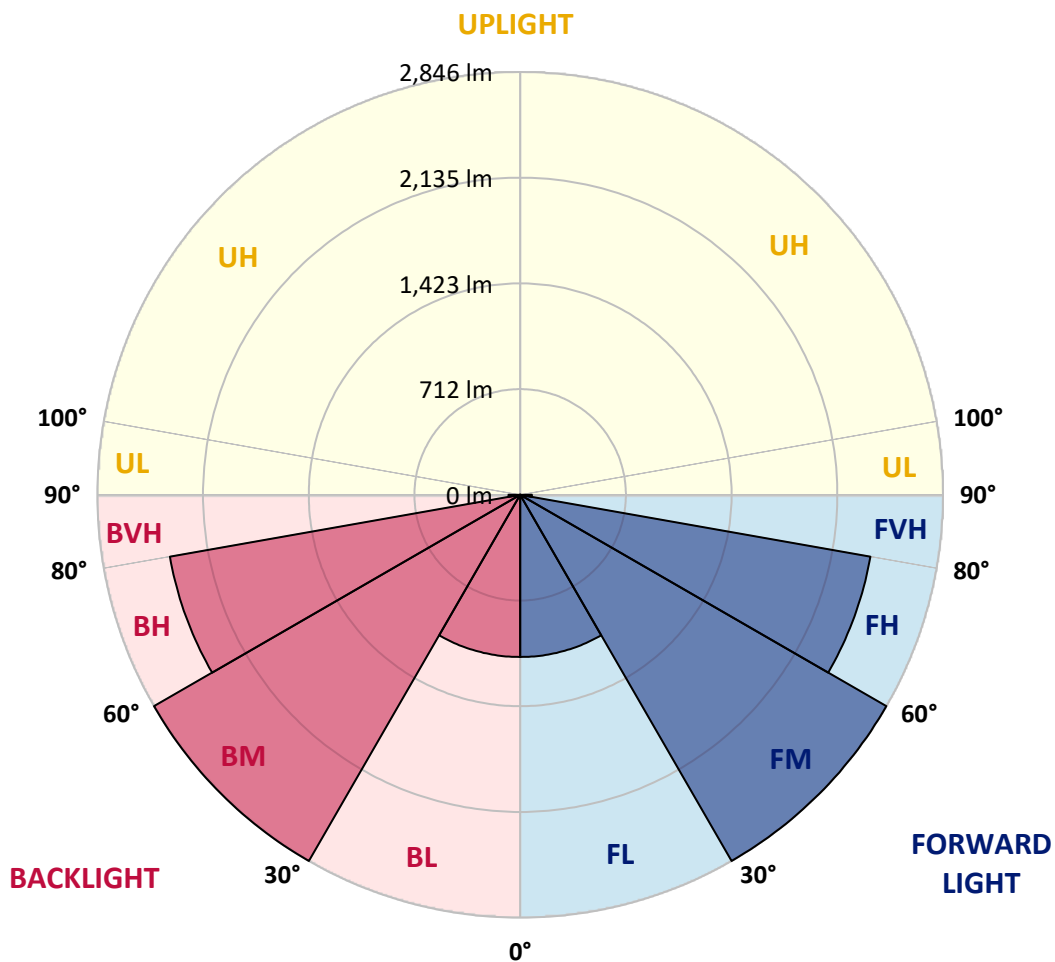
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1091.7	8.5			
FM	(30°-60°)	2846.3	22.2			
FH	(60°-80°)	2394.1	18.7			G2/5000
FVH	(80°-90°)	78.9	0.6			G1/100
BL	(0°-30°)	1091.7	8.5	B3/2500		
BM	(30°-60°)	2846.3	22.2	B3/5000		
BH	(60°-80°)	2394.1	18.7	B3/2500		G2/5000
BVH	(80°-90°)	78.9	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	2402.5	2402.5	2402.5	2402.5	2402.5	2402.5	2402.5	2402.5	2402.5	2402.5	2402.5
2.5°	2413.4	2415.4	2414.1	2416.8	2416.1	2416.2	2414.8	2412.0	2411.7	2411.3	2411.0
5°	2436.6	2433.9	2438.0	2442.1	2440.8	2441.4	2440.8	2440.8	2440.5	2440.2	2440.0
7.5°	2461.3	2460.6	2463.4	2474.3	2475.6	2479.8	2484.6	2488.0	2488.1	2488.3	2488.4
10°	2482.5	2483.2	2490.0	2505.8	2514.0	2527.0	2540.0	2550.2	2551.0	2551.7	2552.4
12.5°	2499.6	2500.3	2510.6	2535.2	2555.0	2579.6	2607.6	2623.4	2624.8	2626.1	2627.5
15°	2501.0	2503.0	2520.8	2561.2	2600.8	2641.2	2674.7	2696.0	2697.0	2698.1	2699.2
17.5°	2483.2	2484.5	2514.6	2574.2	2640.5	2703.4	2738.3	2748.0	2748.4	2748.8	2749.2
20°	2436.6	2440.1	2482.5	2570.8	2672.0	2754.1	2790.3	2777.4	2776.0	2774.8	2773.4
22.5°	2361.4	2360.8	2416.1	2535.2	2678.1	2793.8	2825.9	2791.7	2787.7	2783.6	2779.6
25°	2239.6	2247.8	2312.9	2455.1	2643.2	2802.6	2851.2	2799.2	2793.4	2787.6	2781.8
27.5°	2107.6	2112.4	2181.5	2334.0	2561.9	2771.8	2863.5	2814.3	2807.8	2801.3	2794.8
30°	1953.7	1959.8	2033.7	2193.1	2431.2	2692.5	2860.1	2848.5	2840.9	2833.3	2825.7
32.5°	1803.2	1810.0	1876.4	2050.8	2293.7	2583.7	2839.6	2897.0	2889.3	2881.4	2873.7
35°	1647.2	1657.5	1738.2	1914.7	2161.0	2462.6	2808.1	2959.3	2955.0	2950.7	2946.3
37.5°	1518.0	1520.0	1598.0	1783.4	2037.8	2347.0	2766.4	3038.0	3041.1	3044.2	3047.4
40°	1373.6	1386.6	1464.6	1660.2	1926.4	2249.2	2726.7	3144.7	3161.0	3177.4	3193.7
42.5°	1244.3	1245.7	1325.0	1526.8	1805.2	2170.6	2704.8	3273.2	3308.2	3343.2	3378.1
45°	1108.2	1113.7	1185.5	1380.4	1665.7	2077.6	2704.2	3421.7	3477.5	3533.3	3589.2
47.5°	979.6	981.6	1057.6	1238.8	1505.6	1947.6	2699.4	3581.1	3657.1	3733.1	3809.1
50°	856.4	854.4	929.0	1103.4	1347.6	1777.2	2657.6	3761.7	3857.7	3953.7	4049.6
52.5°	715.6	725.1	802.4	969.4	1203.9	1604.2	2535.9	3959.4	4074.2	4189.0	4303.8
55°	577.4	581.5	664.2	820.2	1058.2	1442.7	2323.8	4141.4	4276.7	4412.0	4547.3
57.5°	425.4	437.8	510.4	664.2	910.5	1306.6	2054.2	4235.8	4400.4	4565.1	4729.7
60°	300.3	309.8	374.2	503.4	748.3	1163.6	1822.4	4183.0	4397.0	4611.0	4825.0
62.5°	234.0	241.5	292.8	376.9	583.5	1020.6	1656.2	4012.8	4303.9	4595.0	4886.2
65°	205.2	212.0	258.5	301.6	435.8	875.0	1565.2	3832.8	4217.7	4602.6	4987.4
67.5°	185.4	193.6	234.0	264.0	355.0	763.4	1541.2	3719.3	4155.2	4591.1	5027.0
69°	176.5	184.7	221.0	246.3	329.8	723.8	1500.2	3540.8	3974.1	4407.5	4840.8
70°	171.0	177.8	211.4	237.4	321.5	696.4	1431.8	3317.8	3743.3	4168.9	4594.4
72.5°	158.7	162.1	191.5	216.8	298.2	563.0	1101.4	2464.0	2833.0	3201.9	3570.8
75°	140.2	144.4	171.7	196.4	232.6	349.6	697.1	1524.1	1799.5	2074.9	2350.3
77.5°	121.1	124.5	148.4	187.4	180.6	218.2	416.6	848.2	1008.0	1167.7	1327.4
80°	97.1	101.2	122.4	186.0	149.1	169.6	299.6	593.1	636.2	679.3	722.4
82.5°	71.2	74.6	95.8	150.5	114.2	127.9	228.4	502.8	517.8	532.8	547.7
85°	36.2	37.0	60.9	91.6	72.5	66.4	128.6	344.1	353.7	363.2	372.8
87.5°	6.2	6.2	13.7	15.8	17.8	10.9	16.4	58.8	60.7	62.6	64.4
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	2402.5	2402.5	2402.5	2402.5	2402.5	2402.5	2402.5	2402.5	2402.5	2402.5	2402.5
2.5°	2410.6	2410.3	2409.2	2409.4	2410.3	2409.8	2410.7	2410.8	2411.6	2409.0	2408.5
5°	2439.7	2439.4	2439.3	2439.1	2439.7	2439.5	2440.0	2441.2	2440.9	2439.2	2439.0
7.5°	2488.5	2488.7	2489.4	2488.6	2490.0	2489.4	2488.0	2490.2	2491.7	2491.8	2493.3
10°	2553.2	2554.0	2556.4	2556.0	2558.4	2558.1	2558.4	2560.8	2562.4	2562.6	2564.3
12.5°	2628.9	2630.2	2631.5	2632.7	2635.3	2633.8	2637.0	2638.4	2640.5	2644.6	2642.5
15°	2700.3	2701.4	2705.1	2705.4	2707.7	2708.7	2711.6	2712.9	2713.4	2716.7	2717.3
17.5°	2749.6	2750.0	2751.3	2750.7	2752.7	2752.0	2754.0	2755.1	2756.9	2758.7	2761.9
20°	2772.1	2770.8	2770.1	2769.3	2767.9	2765.8	2766.4	2767.3	2767.6	2769.3	2771.6
22.5°	2775.6	2771.5	2767.3	2764.5	2760.4	2756.9	2753.4	2753.6	2753.9	2753.5	2755.2
25°	2776.0	2770.1	2763.6	2755.8	2749.9	2742.1	2735.6	2735.1	2733.1	2733.3	2734.1
27.5°	2788.3	2781.8	2772.7	2763.6	2751.1	2740.6	2730.1	2726.4	2722.7	2720.4	2719.5
30°	2818.1	2810.5	2799.6	2788.1	2774.4	2758.1	2743.1	2738.4	2733.1	2728.5	2724.5
32.5°	2865.9	2858.0	2846.0	2834.0	2815.8	2799.6	2784.9	2777.3	2769.8	2761.6	2754.1
35°	2942.0	2937.7	2927.1	2916.5	2903.2	2890.5	2877.2	2868.7	2856.1	2849.7	2840.5
37.5°	3050.6	3053.7	3053.7	3055.1	3051.0	3044.8	3035.2	3026.3	3022.2	3005.1	2994.2
40°	3210.1	3226.4	3241.4	3253.0	3263.1	3273.3	3282.2	3277.0	3278.6	3274.1	3267.5
42.5°	3413.1	3448.0	3480.0	3511.9	3535.0	3571.0	3596.2	3604.1	3624.4	3632.3	3647.1
45°	3645.0	3700.8	3754.5	3804.0	3850.1	3901.7	3951.9	3989.2	4030.0	4076.3	4122.5
47.5°	3885.1	3961.1	4040.1	4104.8	4171.5	4247.8	4314.5	4370.7	4444.0	4511.9	4586.5
50°	4145.6	4241.6	4331.5	4411.2	4497.1	4585.0	4676.3	4758.9	4858.0	4966.6	5084.1
52.5°	4418.6	4533.4	4637.5	4737.5	4838.2	4938.9	5036.2	5152.9	5275.0	5418.4	5565.2
55°	4682.6	4817.9	4936.0	5047.2	5162.5	5275.1	5375.4	5531.5	5681.5	5852.6	6044.3
57.5°	4894.4	5059.0	5195.2	5327.3	5457.4	5577.2	5700.4	5876.5	6067.5	6267.6	6510.7
60°	5039.0	5253.0	5426.9	5585.7	5745.2	5895.9	6037.6	6267.7	6495.1	6743.7	7046.3
62.5°	5177.3	5468.5	5695.3	5911.9	6127.1	6320.4	6496.6	6786.1	7083.2	7390.4	7750.4
65°	5372.3	5757.2	6091.2	6393.2	6691.0	6975.2	7238.8	7605.6	7980.6	8385.0	8814.8
67.5°	5462.9	5898.8	6333.8	6740.8	7119.1	7478.9	7817.6	8260.9	8702.3	9171.1	9690.4
69°	5274.2	5707.5	6172.6	6617.2	7035.1	7416.7	7783.4	8236.1	8694.9	9173.7	9697.5
70°	5020.0	5445.6	5915.0	6379.7	6779.4	7177.1	7556.9	8006.1	8471.0	8950.9	9499.3
72.5°	3939.7	4308.6	4766.5	5217.5	5618.6	6017.6	6386.5	6846.2	7314.1	7818.3	8337.5
75°	2625.8	2901.2	3242.2	3660.6	4028.4	4381.1	4738.6	5127.4	5583.9	5999.4	6474.5
77.5°	1487.2	1646.9	1845.0	2117.1	2381.0	2592.1	2847.1	3030.0	3295.0	3523.8	3765.5
80°	765.5	808.6	867.7	932.9	970.1	964.3	1002.1	964.7	973.0	942.4	909.7
82.5°	562.7	577.7	604.4	617.5	616.2	573.2	527.4	463.9	408.0	349.3	295.4
85°	382.4	392.0	398.7	408.8	405.9	387.3	346.2	291.0	237.2	190.3	152.3
87.5°	66.2	68.1	67.6	73.3	73.5	68.2	56.1	47.9	40.4	30.1	21.2
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°	2402.5	2402.5	2402.5	2402.5	2402.5	2402.5	2402.5	2402.5	2402.5	2402.5	2402.5
2.5°	2407.9	2408.0	2409.3	2408.0	2408.0	2407.9	2407.2	2408.6	2407.9	2405.9	2403.8
5°	2439.4	2437.4	2436.6	2438.0	2439.4	2436.6	2438.7	2440.8	2437.4	2438.0	2436.7
7.5°	2492.1	2491.4	2490.7	2492.0	2492.0	2491.4	2492.1	2490.0	2488.6	2490.7	2492.8
10°	2562.5	2561.8	2563.2	2563.2	2566.0	2564.6	2563.9	2566.0	2564.6	2563.2	2563.9
12.5°	2645.3	2643.2	2646.6	2646.6	2648.7	2648.8	2648.0	2648.7	2648.0	2646.0	2644.6
15°	2719.2	2716.4	2717.2	2722.6	2722.0	2723.3	2723.3	2721.9	2721.2	2720.6	2721.2
17.5°	2763.6	2762.3	2762.2	2765.0	2767.0	2766.4	2766.4	2766.4	2765.6	2766.4	2767.7
20°	2771.8	2771.8	2772.5	2775.3	2778.7	2776.6	2776.6	2778.0	2776.6	2778.0	2778.7
22.5°	2756.2	2757.5	2758.9	2762.2	2763.0	2763.0	2763.0	2763.6	2765.0	2765.0	2766.4
25°	2734.2	2735.6	2737.6	2740.4	2743.1	2743.2	2743.1	2744.5	2744.5	2745.2	2745.9
27.5°	2717.9	2719.2	2721.2	2724.0	2727.4	2727.4	2727.4	2728.8	2728.8	2729.4	2730.8
30°	2719.8	2717.1	2719.2	2720.5	2722.6	2722.6	2721.9	2722.6	2723.2	2723.2	2724.0
32.5°	2749.3	2743.2	2741.0	2740.4	2741.0	2739.0	2738.4	2737.0	2735.6	2735.6	2734.9
35°	2827.2	2817.6	2817.0	2811.6	2806.1	2800.6	2801.2	2797.2	2798.5	2795.1	2792.4
37.5°	2987.3	2976.4	2983.2	2971.6	2964.0	2958.6	2952.4	2944.2	2939.4	2945.6	2945.6
40°	3274.0	3266.5	3264.4	3266.4	3259.6	3263.0	3248.0	3243.8	3235.0	3241.2	3249.3
42.5°	3670.0	3665.2	3691.2	3696.0	3698.8	3702.9	3705.6	3683.0	3682.4	3677.6	3663.9
45°	4159.2	4187.9	4186.5	4218.0	4219.4	4209.8	4213.8	4203.6	4199.5	4184.5	4202.9
47.5°	4661.9	4716.6	4737.2	4744.0	4770.0	4776.2	4751.6	4743.4	4757.7	4733.1	4736.5
50°	5201.6	5260.5	5308.4	5340.5	5359.0	5360.4	5341.9	5337.8	5350.8	5304.2	5326.2
52.5°	5732.5	5821.4	5911.8	5959.6	5993.8	5996.6	6011.0	5993.8	6000.6	5989.7	6011.6
55°	6255.8	6409.8	6515.8	6609.5	6669.0	6720.3	6725.1	6743.6	6745.0	6767.6	6744.9
57.5°	6767.5	6935.1	7119.8	7286.0	7378.4	7436.6	7491.3	7565.8	7582.2	7573.4	7587.7
60°	7371.6	7630.8	7881.8	8073.4	8232.8	8385.3	8467.4	8584.4	8602.9	8653.5	8609.7
62.5°	8134.9	8511.2	8851.9	9109.8	9351.9	9589.3	9768.5	9858.8	9913.5	10019.6	9984.7
65°	9306.1	9757.6	10208.4	10577.8	10917.1	11199.6	11471.9	11601.8	11745.5	11896.0	11923.3
67.5°	10270.6	10829.5	11337.8	11787.9	12199.0	12513.0	12796.2	13021.2	13196.4	13307.2	13316.1
69°	10314.4	10895.2	11447.2	11930.2	12359.0	12693.0	12991.2	13241.6	13411.9	13525.4	13555.5
70°	10105.1	10699.6	11287.8	11775.6	12214.8	12556.1	12872.2	13110.9	13301.1	13416.6	13457.0
72.5°	8927.8	9562.7	10191.2	10618.8	11067.6	11473.9	11727.0	11970.6	12238.7	12273.6	12384.4
75°	7037.8	7571.3	8059.1	8386.0	8760.9	9125.5	9373.8	9438.1	9578.3	9754.8	9691.9
77.5°	4078.4	4242.6	4557.3	4638.0	4569.6	4728.3	4781.0	4668.8	4663.4	4766.6	4561.4
80°	903.6	852.4	916.6	868.8	870.2	871.5	857.2	851.7	861.9	851.6	837.3
82.5°	250.4	242.2	243.6	240.8	245.6	242.2	240.1	245.6	244.9	244.2	249.0
85°	120.4	119.0	117.0	116.3	113.6	110.2	104.6	104.6	107.4	103.2	105.3
87.5°	15.8	15.0	15.0	17.8	15.8	13.0	13.0	13.0	12.3	12.3	12.3
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)