

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: INVUE

Report Number: P180297

Luminaire Tested: **ICM-E05-LED-E1-RW-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180297
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E05-LED-E1-RW-7030
Description: ICON SITE MEDIUM LED 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: 13271 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

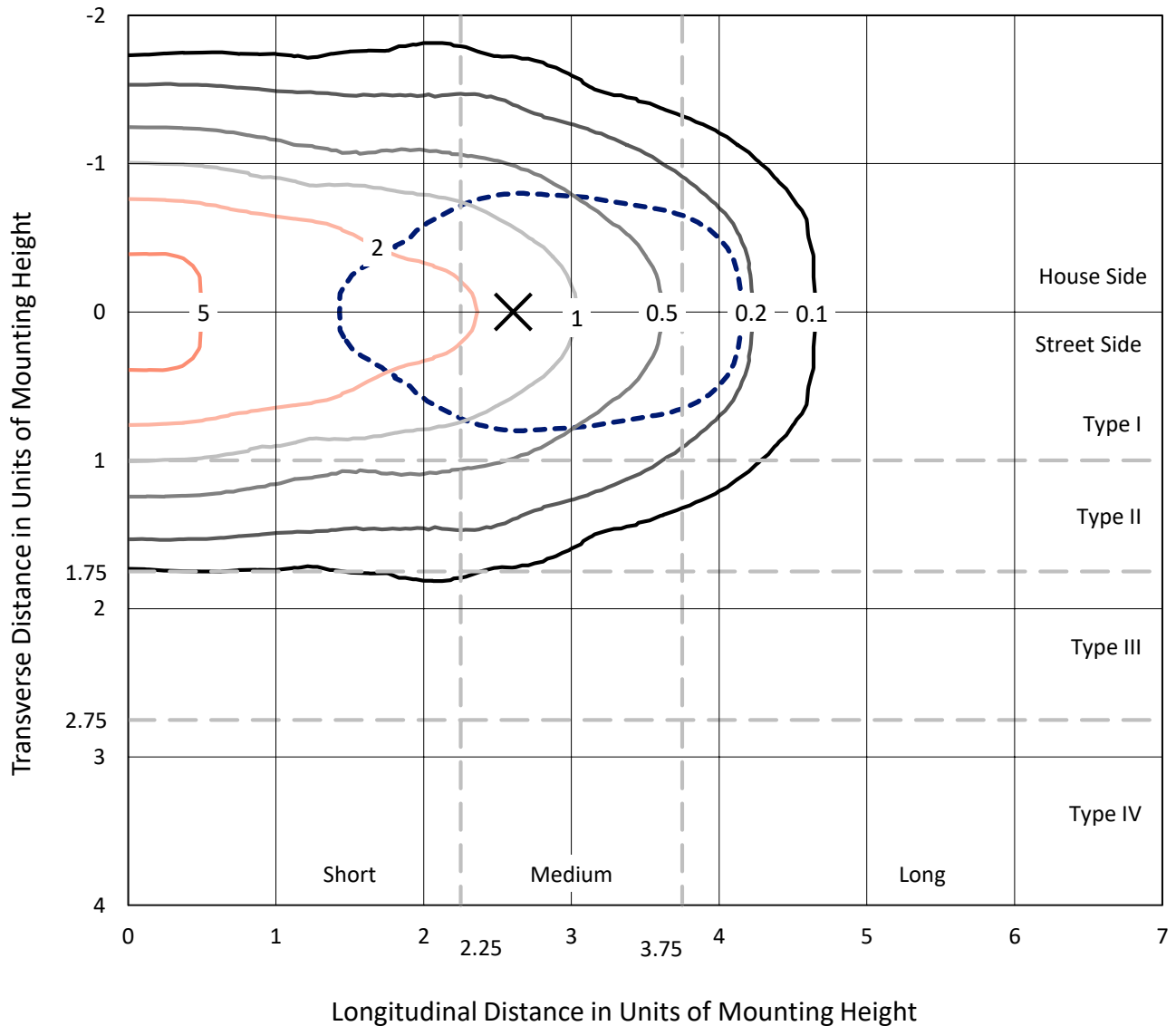
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

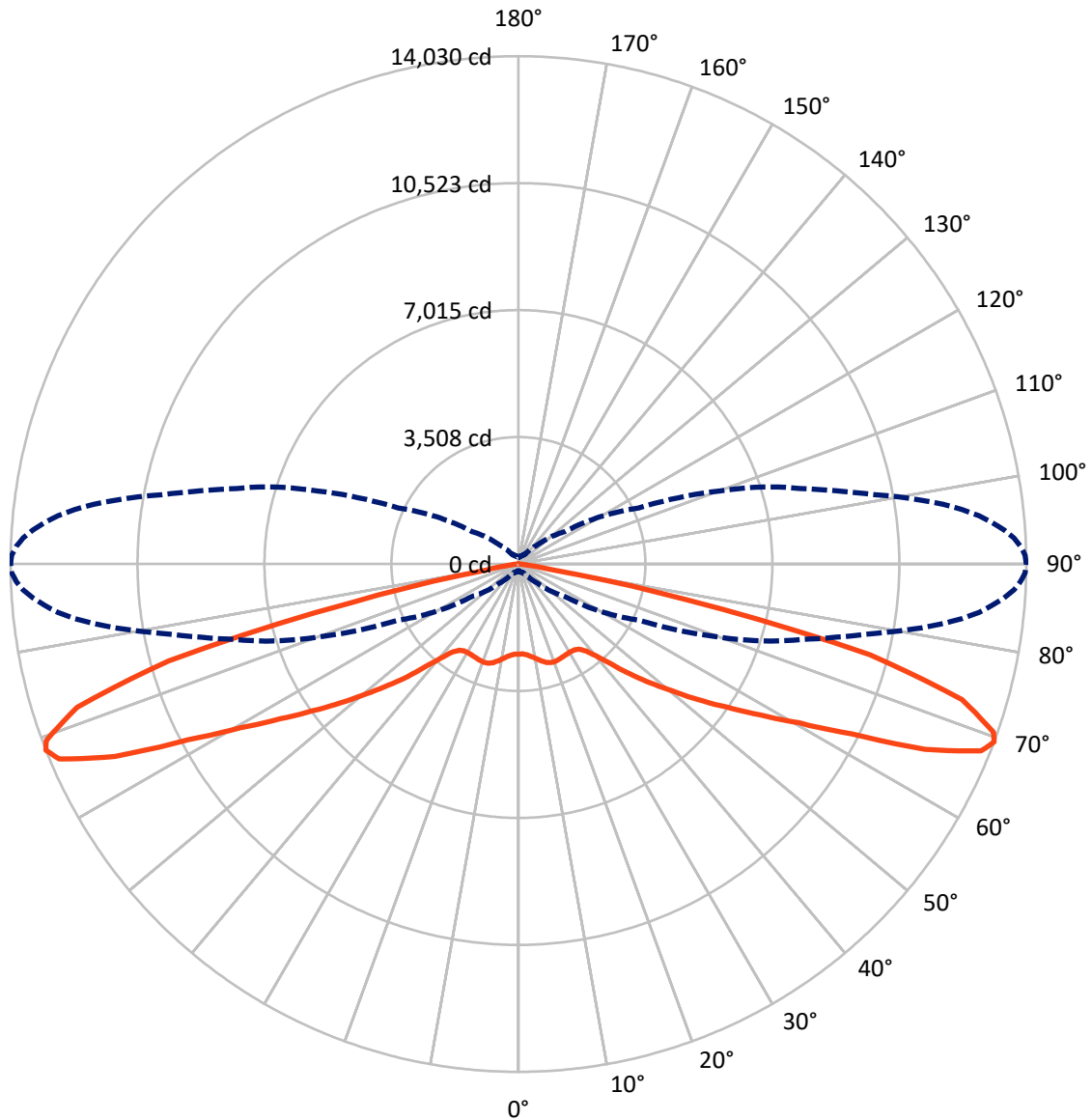
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 fc
 Type I - Short - 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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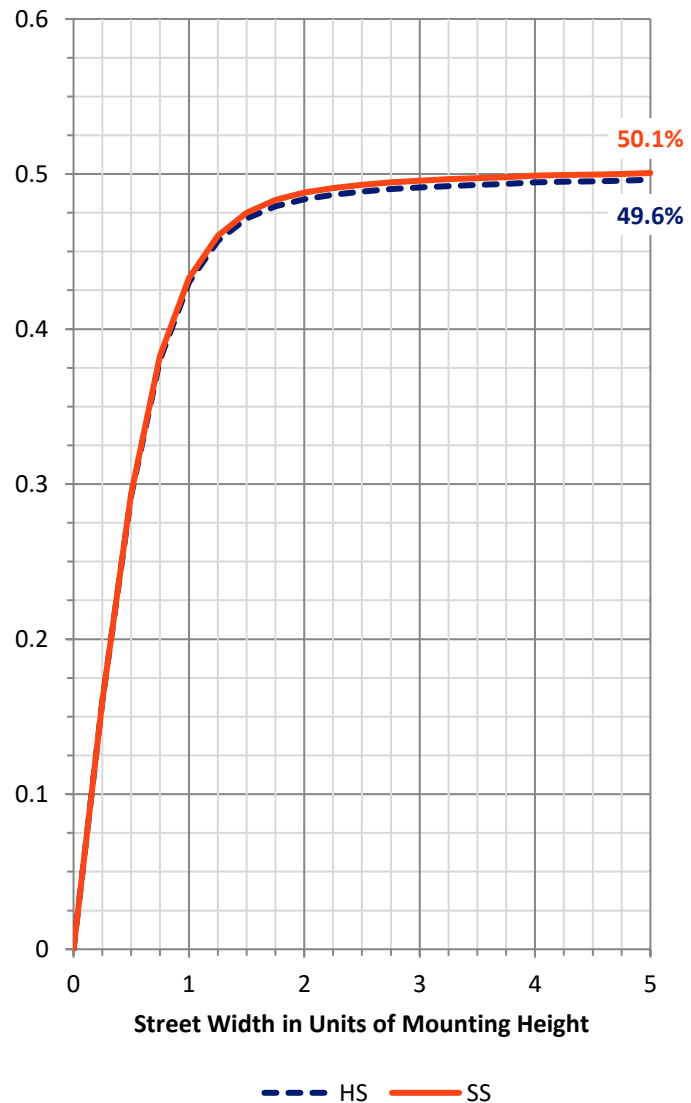
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6635.5	0.0	6635.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6635.5	0.0	6635.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13271.0	0.0	13271.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.9	1.8
10°-20°	769.4	5.8
20°-30°	1246.6	9.4
30°-40°	1553.5	11.7
40°-50°	1941.3	14.6
50°-60°	2397.1	18.1
60°-70°	2978.5	22.4
70°-80°	1977.3	14.9
80°-90°	163.3	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°	13271.0	100.0
0°-180°	13271.0	100.0



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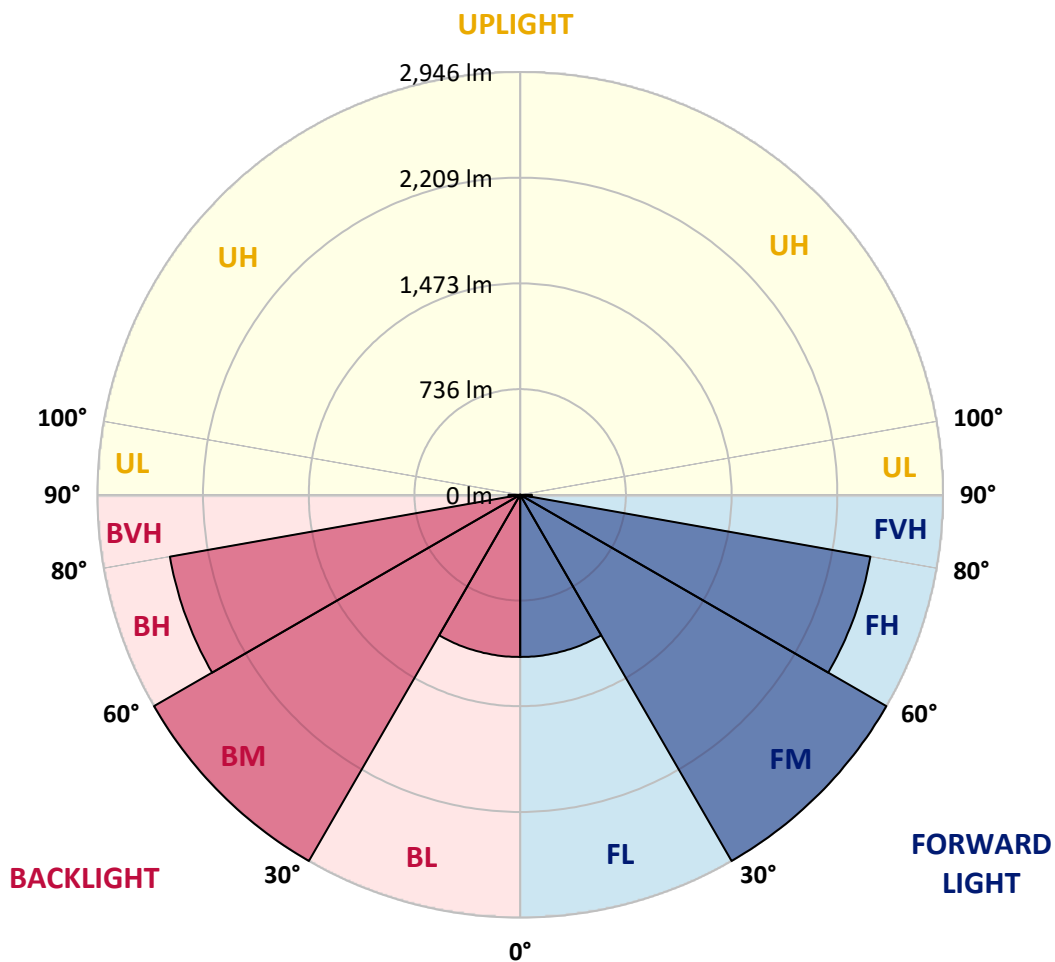
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1129.9	8.5			
FM	(30°-60°)	2946.0	22.2			
FH	(60°-80°)	2477.9	18.7			G2/5000
FVH	(80°-90°)	81.6	0.6			G1/100
BL	(0°-30°)	1129.9	8.5	B3/2500		
BM	(30°-60°)	2946.0	22.2	B3/5000		
BH	(60°-80°)	2477.9	18.7	B3/2500		G3/2500
BVH	(80°-90°)	81.6	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-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6
2.5°	2497.9	2500.1	2498.6	2501.4	2500.8	2500.7	2499.4	2496.5	2494.7	2493.5	2493.8
5°	2522.0	2519.1	2523.4	2527.6	2526.2	2526.9	2526.2	2526.2	2524.9	2524.7	2524.6
7.5°	2547.6	2546.8	2549.6	2560.9	2562.3	2566.6	2571.6	2575.1	2575.8	2576.5	2575.8
10°	2569.5	2570.2	2577.2	2593.5	2602.1	2615.5	2628.9	2639.6	2643.4	2645.9	2645.5
12.5°	2587.1	2587.9	2598.4	2624.0	2644.6	2670.0	2699.0	2715.3	2722.4	2723.6	2724.9
15°	2588.6	2590.7	2609.1	2650.8	2691.9	2733.7	2768.4	2790.3	2796.0	2799.8	2800.1
17.5°	2570.2	2571.6	2602.7	2664.3	2733.0	2798.2	2834.2	2844.1	2846.2	2847.6	2847.0
20°	2522.0	2525.6	2569.5	2660.8	2765.6	2850.4	2888.0	2874.6	2867.9	2867.1	2866.3
22.5°	2444.1	2443.4	2500.8	2623.9	2771.9	2891.6	2924.9	2889.5	2868.6	2864.3	2861.3
25°	2318.1	2326.5	2393.9	2541.1	2735.8	2900.9	2951.1	2897.2	2867.2	2860.5	2852.3
27.5°	2181.4	2186.4	2257.9	2415.8	2651.6	2868.9	2963.7	2912.9	2879.2	2869.8	2860.3
30°	2022.2	2028.5	2105.0	2269.9	2516.3	2786.8	2960.3	2948.2	2908.9	2897.7	2885.7
32.5°	1866.3	1873.5	1942.2	2122.7	2374.0	2674.2	2939.0	2998.5	2958.2	2945.7	2933.2
35°	1704.9	1715.5	1799.1	1981.8	2236.7	2548.9	2906.4	3062.9	3040.7	3029.7	3018.7
37.5°	1571.2	1573.2	1654.0	1845.8	2109.2	2429.2	2863.3	3144.4	3160.7	3160.7	3162.1
40°	1421.8	1435.2	1515.9	1718.3	1993.9	2328.0	2822.2	3254.8	3339.4	3354.9	3366.9
42.5°	1287.9	1289.3	1371.5	1580.3	1868.5	2246.5	2799.6	3387.9	3568.8	3601.9	3635.0
45°	1147.0	1152.7	1227.0	1428.8	1724.1	2150.2	2798.8	3541.6	3830.4	3885.9	3937.1
47.5°	1013.9	1016.0	1094.6	1282.2	1558.3	2015.8	2793.9	3706.5	4099.8	4181.6	4248.5
50°	886.5	884.3	961.5	1142.1	1394.8	1839.5	2750.7	3893.4	4390.2	4483.2	4565.7
52.5°	740.6	750.5	830.5	1003.3	1246.1	1660.3	2624.7	4098.1	4692.1	4799.8	4903.4
55°	597.5	601.9	687.4	848.9	1095.4	1493.2	2405.2	4286.4	4986.6	5108.9	5223.9
57.5°	440.4	453.1	528.2	687.4	942.4	1352.4	2126.2	4384.1	5236.2	5377.1	5513.9
60°	310.9	320.7	387.4	521.1	774.6	1204.3	1886.2	4329.6	5437.0	5617.0	5781.3
62.5°	242.1	249.9	303.1	390.1	603.9	1056.4	1714.2	4153.3	5659.9	5894.7	6118.9
65°	212.4	219.5	267.6	312.2	451.0	905.5	1619.9	3967.1	5958.7	6304.6	6617.1
67.5°	191.8	200.4	242.1	273.3	367.4	790.1	1595.2	3849.5	6105.3	6555.7	6976.9
69°	182.7	191.2	228.7	254.9	341.3	749.1	1552.8	3664.8	5907.5	6388.9	6849.0
70°	177.0	184.1	218.8	245.7	332.8	720.7	1481.9	3433.9	5636.2	6122.2	6603.1
72.5°	164.3	167.8	198.2	224.4	308.7	582.7	1139.9	2550.3	4459.6	4933.4	5400.1
75°	145.1	149.4	177.7	203.2	240.7	361.8	721.5	1577.5	3002.8	3355.7	3788.9
77.5°	125.3	128.9	153.7	194.0	187.0	225.9	431.2	878.0	1704.6	1909.7	2191.3
80°	100.5	104.7	126.7	192.6	154.3	175.6	310.1	613.9	836.8	898.1	965.6
82.5°	73.7	77.1	99.2	155.7	118.3	132.4	236.5	520.4	598.0	625.6	639.2
85°	37.6	38.2	63.1	94.9	75.0	68.7	133.1	356.1	405.7	412.7	423.1
87.5°	6.3	6.3	14.1	16.3	18.4	11.3	16.9	60.9	70.4	70.0	75.8
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6
2.5°	2494.6	2494.2	2495.1	2495.3	2496.0	2493.4	2492.9	2492.3	2492.3	2493.7	2492.2
5°	2525.1	2524.9	2525.6	2526.7	2526.4	2524.7	2524.4	2524.9	2522.7	2522.1	2523.4
7.5°	2577.2	2576.5	2575.1	2577.4	2578.9	2579.1	2580.7	2579.4	2578.6	2577.9	2579.4
10°	2648.0	2647.6	2648.0	2650.4	2652.1	2652.4	2654.2	2652.3	2651.6	2653.0	2653.0
12.5°	2727.6	2726.1	2729.4	2730.9	2732.9	2737.2	2735.1	2737.9	2735.8	2739.4	2739.4
15°	2802.5	2803.6	2806.6	2807.9	2808.5	2811.9	2812.4	2814.4	2811.6	2812.3	2817.9
17.5°	2849.1	2848.4	2850.4	2851.6	2853.5	2855.3	2858.6	2860.5	2859.0	2859.0	2861.8
20°	2864.9	2862.6	2863.3	2864.3	2864.6	2866.3	2868.7	2868.9	2868.9	2869.6	2872.5
22.5°	2857.0	2853.4	2849.8	2850.1	2850.3	2850.0	2851.6	2852.7	2854.1	2855.5	2859.0
25°	2846.3	2838.2	2831.5	2830.8	2828.9	2828.9	2829.8	2830.0	2831.5	2833.5	2836.3
27.5°	2847.4	2836.6	2825.7	2821.9	2818.1	2815.6	2814.7	2813.0	2814.4	2816.6	2819.4
30°	2871.6	2854.7	2839.2	2834.3	2828.9	2824.0	2819.9	2815.1	2812.2	2814.4	2815.8
32.5°	2914.4	2897.7	2882.4	2874.6	2866.8	2858.3	2850.5	2845.6	2839.2	2837.0	2836.3
35°	3004.9	2991.7	2978.0	2969.2	2956.2	2949.5	2940.0	2926.3	2916.4	2915.6	2910.0
37.5°	3157.8	3151.5	3141.5	3132.3	3128.0	3110.3	3099.1	3091.9	3080.6	3087.6	3075.6
40°	3377.4	3388.0	3397.0	3391.7	3393.4	3388.8	3382.0	3388.7	3380.9	3378.7	3380.9
42.5°	3658.8	3696.1	3722.1	3730.3	3751.3	3759.5	3774.7	3798.5	3793.6	3820.5	3825.5
45°	3985.0	4038.3	4090.3	4129.0	4171.1	4219.0	4266.9	4304.8	4334.5	4333.0	4365.7
47.5°	4317.5	4396.5	4465.5	4523.7	4599.7	4669.9	4747.2	4825.1	4881.9	4903.1	4910.2
50°	4654.5	4745.5	4840.0	4925.6	5028.1	5140.6	5262.3	5383.8	5444.7	5494.4	5527.6
52.5°	5007.6	5111.8	5212.5	5333.2	5459.8	5608.1	5760.1	5933.2	6025.3	6118.7	6168.4
55°	5343.4	5459.8	5563.7	5725.2	5880.5	6057.5	6256.0	6474.8	6634.3	6743.9	6841.0
57.5°	5648.5	5772.5	5899.9	6082.2	6280.0	6487.1	6738.7	7004.5	7178.0	7369.2	7541.3
60°	5946.5	6102.4	6249.1	6487.2	6722.6	6979.9	7293.1	7629.6	7898.1	8157.9	8356.1
62.5°	6341.6	6541.7	6724.1	7023.8	7331.2	7649.3	8021.8	8419.9	8809.3	9161.9	9428.8
65°	6925.3	7219.5	7492.3	7872.0	8260.1	8678.8	9123.5	9632.1	10099.3	10565.8	10948.2
67.5°	7368.4	7740.9	8091.4	8550.3	9007.1	9492.2	10029.7	10630.3	11208.8	11734.9	12200.7
69°	7281.5	7676.5	8055.9	8524.5	8999.5	9494.9	10037.2	10675.6	11276.7	11848.1	12348.0
70°	7016.9	7428.4	7821.6	8286.5	8767.6	9264.4	9832.0	10458.9	11074.3	11683.1	12188.0
72.5°	5815.3	6228.3	6610.1	7085.9	7570.2	8092.0	8629.4	9240.4	9897.5	10548.2	10990.7
75°	4169.4	4534.5	4904.5	5306.9	5779.5	6209.5	6701.2	7284.1	7836.5	8341.3	8679.7
77.5°	2464.4	2682.9	2946.8	3136.2	3410.4	3647.2	3897.4	4221.2	4391.2	4716.9	4800.4
80°	1004.1	998.1	1037.2	998.5	1007.1	975.4	941.6	935.3	882.2	948.7	899.2
82.5°	637.8	593.3	545.9	480.2	422.3	361.5	305.8	259.2	250.6	252.1	249.2
85°	420.2	400.9	358.3	301.2	245.5	197.0	157.6	124.7	123.2	121.1	120.4
87.5°	76.1	70.6	58.0	49.6	41.8	31.2	22.0	16.3	15.6	15.6	18.4
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):

	84°	85°	86°	87°	88°	89°	90°
0°	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6
2.5°	2492.2	2492.2	2491.6	2493.0	2492.3	2490.1	2488.0
5°	2524.9	2522.0	2524.1	2526.2	2522.7	2523.5	2522.0
7.5°	2579.4	2578.6	2579.4	2577.2	2575.8	2577.9	2580.0
10°	2655.8	2654.3	2653.7	2655.8	2654.3	2653.0	2653.7
12.5°	2741.4	2741.5	2740.8	2741.4	2740.8	2738.6	2737.2
15°	2817.2	2818.6	2818.6	2817.2	2816.6	2815.8	2816.6
17.5°	2864.0	2863.3	2863.3	2863.3	2862.5	2863.3	2864.7
20°	2876.0	2873.9	2874.0	2875.3	2873.9	2875.3	2876.0
22.5°	2859.7	2859.7	2859.7	2860.4	2861.9	2861.8	2863.3
25°	2839.2	2839.2	2839.2	2840.6	2840.6	2841.3	2842.1
27.5°	2822.9	2822.9	2822.9	2824.4	2824.4	2825.0	2826.4
30°	2818.0	2818.0	2817.3	2818.0	2818.6	2818.6	2819.4
32.5°	2837.0	2835.0	2834.2	2832.8	2831.4	2831.4	2830.7
35°	2904.3	2898.6	2899.4	2895.1	2896.6	2893.0	2890.2
37.5°	3067.9	3062.3	3055.8	3047.4	3042.4	3048.8	3048.8
40°	3373.8	3377.3	3361.7	3357.4	3348.3	3354.6	3363.1
42.5°	3828.3	3832.6	3835.4	3812.0	3811.4	3806.3	3792.2
45°	4367.1	4357.2	4361.5	4350.8	4346.6	4331.0	4350.2
47.5°	4937.1	4943.5	4918.0	4909.4	4924.3	4898.8	4902.4
50°	5546.6	5548.1	5529.0	5524.7	5538.2	5490.1	5512.7
52.5°	6203.8	6206.5	6221.4	6203.8	6210.8	6199.5	6222.2
55°	6902.6	6955.7	6960.6	6979.8	6981.2	7004.5	6981.2
57.5°	7636.8	7697.0	7753.6	7830.7	7847.8	7838.6	7853.4
60°	8521.2	8679.0	8764.0	8885.0	8904.1	8956.5	8911.2
62.5°	9679.5	9925.2	10110.6	10204.1	10260.7	10370.5	10334.4
65°	11299.4	11591.9	11873.6	12008.2	12156.8	12312.6	12340.9
67.5°	12626.3	12951.2	13244.4	13477.3	13658.5	13773.3	13782.5
69°	12791.9	13137.4	13446.2	13705.3	13881.6	13999.2	14030.3
70°	12642.5	12995.8	13323.0	13570.1	13766.9	13886.6	13928.4
72.5°	11455.1	11875.7	12137.7	12389.8	12667.2	12703.4	12818.1
75°	9067.8	9445.1	9702.1	9768.6	9913.8	10096.4	10031.3
77.5°	4729.6	4893.9	4948.4	4832.3	4826.6	4933.6	4721.1
80°	900.7	902.0	887.1	881.5	892.1	881.5	866.6
82.5°	254.1	250.7	248.6	254.1	253.5	252.7	257.7
85°	117.6	114.0	108.3	108.3	111.1	106.9	109.0
87.5°	16.3	13.4	13.4	13.4	12.7	12.7	12.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)