

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: P148824

Luminaire Tested: **VWM-F05-LED-E1-RW-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P148824
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: VWM-F05-LED-E1-RW-7030
Description: VISION WALL MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (35) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11777.1 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 133.3
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: 25 FT

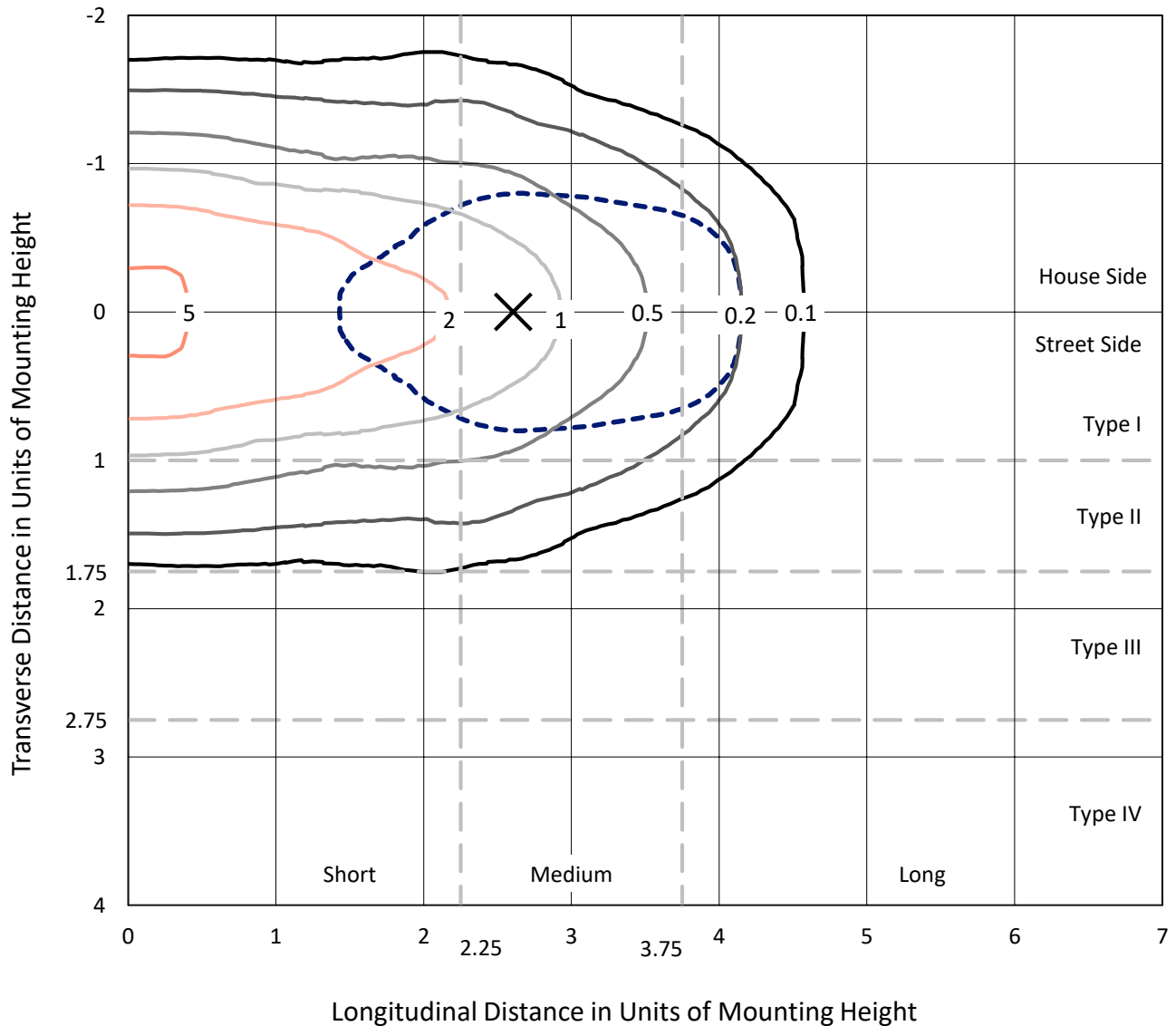


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Iso-Footcandle Lines of Horizontal Illumination

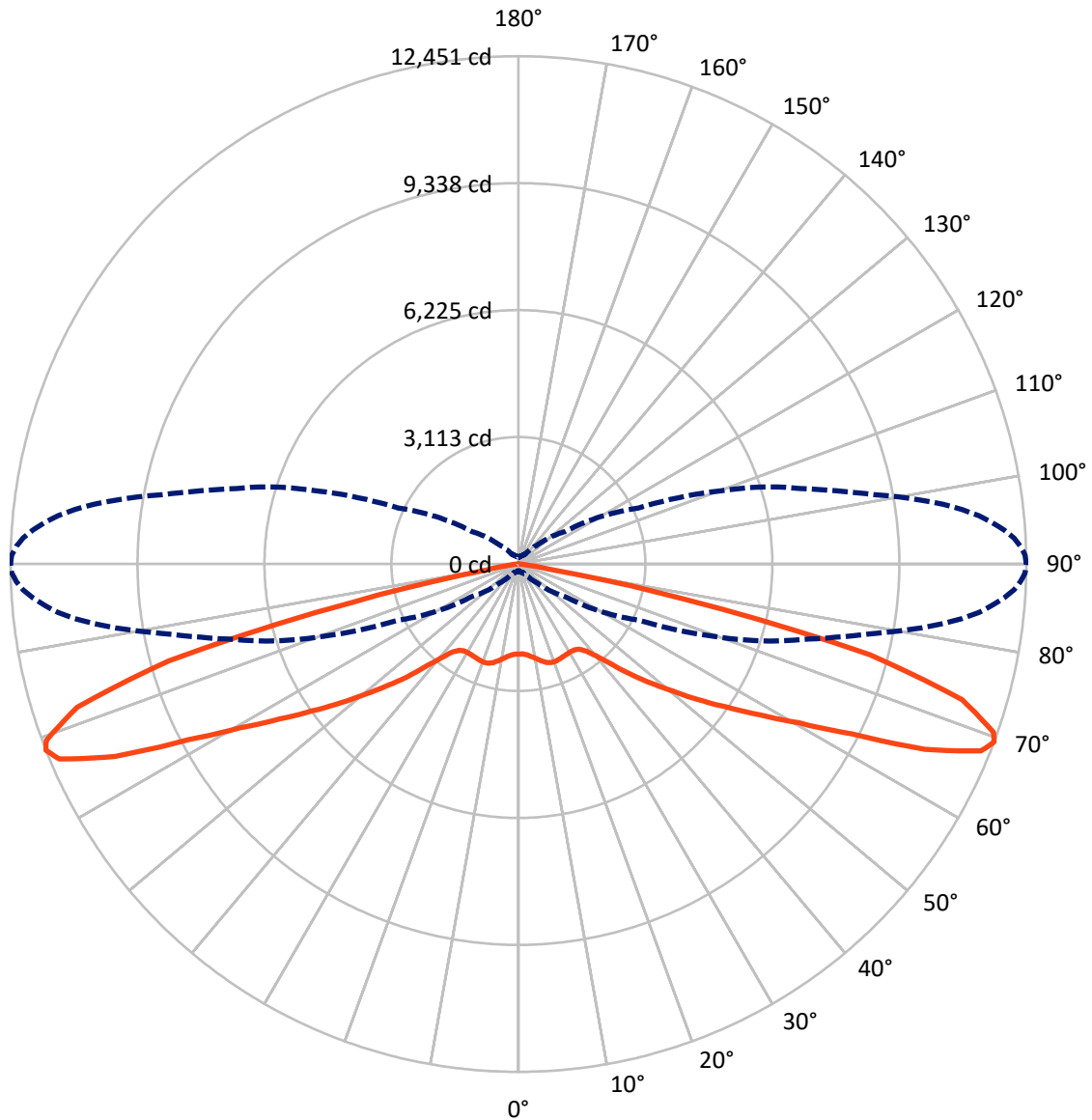
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 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	5888.6	0.0	5888.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5888.6	0.0	5888.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	11777.1	0.0	11777.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.4	1.8
10°-20°	682.8	5.8
20°-30°	1106.2	9.4
30°-40°	1378.7	11.7
40°-50°	1722.8	14.6
50°-60°	2127.3	18.1
60°-70°	2643.3	22.4
70°-80°	1754.8	14.9
80°-90°	144.9	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°	11777.1	100.0
0°-180°	11777.1	100.0



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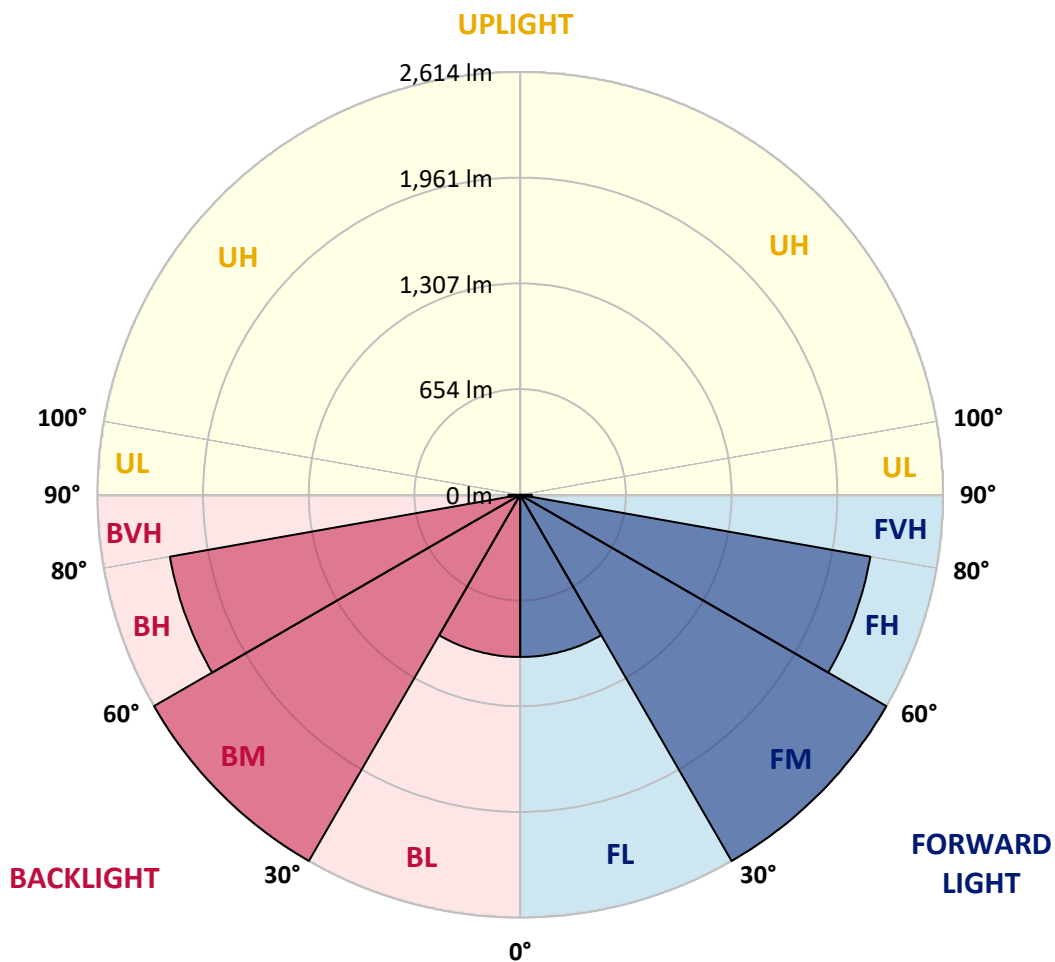
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1002.8	8.5			
FM (30°-60°)	2614.4	22.2			
FH (60°-80°)	2199.0	18.7			G2/5000
FVH (80°-90°)	72.4	0.6			G1/100
BL (0°-30°)	1002.8	8.5	B3/2500		
BM (30°-60°)	2614.4	22.2	B3/5000		
BH (60°-80°)	2199.0	18.7	B3/2500		G3/2500
BVH (80°-90°)	72.4	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°	66°	67°	68°
0°	2206.7	2206.7	2206.7	2206.7	2206.7	2206.7	2206.7	2206.7	2206.7	2206.7	2206.7
2.5°	2216.8	2218.6	2217.4	2219.9	2219.2	2219.2	2218.0	2215.4	2215.1	2214.8	2214.5
5°	2238.1	2235.6	2239.4	2243.2	2241.8	2242.5	2241.9	2241.8	2241.6	2241.4	2241.1
7.5°	2260.7	2260.1	2262.6	2272.7	2273.9	2277.7	2282.1	2285.2	2285.4	2285.5	2285.6
10°	2280.2	2280.8	2287.1	2301.6	2309.1	2321.0	2333.0	2342.4	2343.1	2343.8	2344.5
12.5°	2295.9	2296.6	2306.0	2328.6	2346.8	2369.4	2395.2	2409.6	2410.9	2412.1	2413.4
15°	2297.2	2299.0	2315.4	2352.4	2388.9	2426.0	2456.8	2476.2	2477.2	2478.2	2479.2
17.5°	2280.8	2282.1	2309.8	2364.4	2425.4	2483.1	2515.2	2524.0	2524.4	2524.8	2525.1
20°	2238.1	2241.2	2280.2	2361.2	2454.2	2529.6	2563.0	2551.0	2549.8	2548.6	2547.4
22.5°	2169.0	2168.4	2219.2	2328.6	2459.9	2566.1	2595.6	2564.2	2560.5	2556.8	2553.1
25°	2057.2	2064.7	2124.4	2255.0	2427.9	2574.2	2618.9	2571.2	2565.8	2560.5	2555.1
27.5°	1935.8	1940.2	2003.8	2143.9	2353.1	2546.0	2630.2	2585.0	2579.0	2573.0	2567.1
30°	1794.5	1800.2	1868.0	2014.4	2233.1	2473.1	2627.0	2616.4	2609.4	2602.4	2595.4
32.5°	1656.3	1662.6	1723.5	1883.8	2106.8	2373.2	2608.2	2661.0	2653.8	2646.6	2639.5
35°	1513.0	1522.4	1596.6	1758.7	1984.9	2262.0	2579.3	2718.2	2714.2	2710.2	2706.3
37.5°	1394.2	1396.2	1467.8	1638.1	1871.8	2155.8	2541.0	2790.4	2793.3	2796.2	2799.1
40°	1261.6	1273.6	1345.2	1525.0	1769.4	2066.0	2504.5	2888.4	2903.5	2918.5	2933.5
42.5°	1142.9	1144.2	1217.1	1402.4	1658.2	1993.7	2484.4	3006.5	3038.7	3070.8	3102.9
45°	1017.9	1022.9	1088.9	1268.0	1530.0	1908.2	2483.8	3142.9	3194.2	3245.4	3296.7
47.5°	899.8	901.6	971.4	1137.9	1383.0	1788.8	2479.4	3289.3	3359.1	3428.9	3498.7
50°	786.7	784.8	853.2	1013.5	1237.8	1632.4	2441.0	3455.2	3543.3	3631.5	3719.6
52.5°	657.2	666.0	737.0	890.4	1105.8	1473.4	2329.2	3636.8	3742.2	3847.6	3953.1
55°	530.3	534.0	610.1	753.4	972.0	1325.2	2134.4	3803.9	3928.2	4052.4	4176.7
57.5°	390.8	402.2	468.7	610.1	836.3	1200.1	1886.8	3890.6	4041.8	4193.1	4344.3
60°	275.8	284.6	343.7	462.4	687.4	1068.8	1673.8	3842.2	4038.8	4235.3	4431.9
62.5°	214.9	221.8	268.9	346.2	536.0	937.4	1521.2	3685.8	3953.2	4220.6	4488.0
65°	188.5	194.8	237.6	277.1	400.2	803.6	1437.6	3520.5	3874.0	4227.5	4581.0
67.5°	170.2	177.8	214.9	242.6	326.2	701.2	1415.6	3416.2	3816.6	4217.0	4617.3
69°	162.2	169.6	203.0	226.2	302.8	664.8	1378.0	3252.2	3650.2	4048.3	4446.3
70°	157.0	163.4	194.1	218.0	295.3	639.7	1315.1	3047.4	3438.2	3829.1	4220.0
72.5°	145.8	148.9	176.0	199.2	274.0	517.1	1011.6	2263.2	2602.1	2941.0	3279.8
75°	128.8	132.6	157.8	180.3	213.6	321.1	640.2	1399.9	1652.9	1905.8	2158.8
77.5°	111.2	114.4	136.4	172.2	165.9	200.4	382.7	779.2	925.9	1072.6	1219.3
80°	89.2	93.0	112.4	170.9	137.0	155.8	275.2	544.8	584.3	623.9	663.5
82.5°	65.4	68.4	87.9	138.2	105.0	117.5	209.9	461.8	475.6	489.3	503.1
85°	33.3	34.0	55.9	84.2	66.6	61.0	118.2	316.0	324.8	333.6	342.4
87.5°	5.6	5.6	12.6	14.4	16.4	10.0	15.0	54.0	55.8	57.4	59.2
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	2206.7	2206.7	2206.7	2206.7	2206.7	2206.7	2206.7	2206.7	2206.7	2206.7	2206.7
2.5°	2214.2	2213.9	2212.8	2213.0	2213.8	2213.4	2214.2	2214.3	2215.1	2212.7	2212.2
5°	2240.9	2240.6	2240.5	2240.4	2240.9	2240.7	2241.2	2242.3	2242.0	2240.5	2240.3
7.5°	2285.7	2285.8	2286.5	2285.9	2287.1	2286.5	2285.2	2287.2	2288.6	2288.8	2290.2
10°	2345.2	2345.9	2348.1	2347.8	2350.0	2349.7	2350.0	2352.1	2353.6	2353.8	2355.4
12.5°	2414.6	2415.9	2417.0	2418.2	2420.6	2419.2	2422.2	2423.5	2425.4	2429.1	2427.2
15°	2480.2	2481.2	2484.7	2484.9	2487.0	2487.9	2490.7	2491.8	2492.3	2495.3	2495.8
17.5°	2525.5	2525.9	2527.1	2526.5	2528.4	2527.7	2529.6	2530.6	2532.3	2533.9	2536.8
20°	2546.2	2545.0	2544.3	2543.7	2542.3	2540.4	2541.0	2541.8	2542.1	2543.6	2545.7
22.5°	2549.4	2545.7	2541.8	2539.3	2535.4	2532.2	2529.0	2529.3	2529.5	2529.2	2530.7
25°	2549.8	2544.4	2538.5	2531.2	2525.9	2518.7	2512.7	2512.2	2510.4	2510.6	2511.3
27.5°	2561.1	2555.1	2546.8	2538.4	2526.9	2517.3	2507.6	2504.2	2500.9	2498.8	2497.8
30°	2588.5	2581.5	2571.5	2560.9	2548.4	2533.4	2519.6	2515.3	2510.4	2506.2	2502.5
32.5°	2632.3	2625.1	2614.1	2603.0	2586.3	2571.5	2557.9	2551.0	2544.1	2536.6	2529.7
35°	2702.3	2698.4	2688.6	2678.9	2666.7	2655.0	2642.8	2635.0	2623.4	2617.5	2609.1
37.5°	2802.0	2804.9	2804.8	2806.1	2802.3	2796.7	2787.9	2779.7	2776.0	2760.2	2750.2
40°	2948.5	2963.5	2977.3	2987.9	2997.2	3006.6	3014.7	3009.9	3011.5	3007.3	3001.3
42.5°	3135.0	3167.1	3196.4	3225.8	3247.0	3280.1	3303.1	3310.4	3329.0	3336.3	3349.8
45°	3348.0	3399.2	3448.5	3494.0	3536.3	3583.7	3629.8	3664.2	3701.6	3744.1	3786.5
47.5°	3568.5	3638.3	3710.9	3770.3	3831.5	3901.6	3962.8	4014.5	4081.9	4144.2	4212.8
50°	3807.8	3896.0	3978.6	4051.8	4130.6	4211.4	4295.2	4371.2	4462.1	4561.9	4669.8
52.5°	4058.5	4164.0	4259.6	4351.5	4443.9	4536.4	4625.8	4733.0	4845.1	4976.9	5111.7
55°	4301.0	4425.3	4533.7	4635.9	4741.8	4845.3	4937.4	5080.8	5218.5	5375.7	5551.8
57.5°	4495.5	4646.8	4771.9	4893.2	5012.7	5122.7	5235.9	5397.6	5573.2	5756.9	5980.2
60°	4628.4	4825.0	4984.7	5130.6	5277.1	5415.4	5545.6	5757.0	5965.9	6194.2	6472.1
62.5°	4755.4	5022.8	5231.2	5430.1	5627.8	5805.4	5967.2	6233.1	6506.0	6788.2	7118.8
65°	4934.5	5288.0	5594.9	5872.2	6145.8	6406.8	6649.0	6985.8	7330.3	7701.8	8096.5
67.5°	5017.7	5418.1	5817.7	6191.6	6539.0	6869.5	7180.6	7587.8	7993.2	8423.8	8900.8
69°	4844.4	5242.4	5669.6	6078.0	6461.8	6812.4	7149.1	7564.9	7986.4	8426.1	8907.3
70°	4610.9	5001.8	5433.0	5859.9	6227.0	6592.3	6941.2	7353.7	7780.7	8221.6	8725.2
72.5°	3618.7	3957.5	4378.1	4792.3	5160.8	5527.2	5866.1	6288.4	6718.1	7181.2	7658.1
75°	2411.8	2664.7	2978.0	3362.3	3700.1	4024.1	4352.4	4709.6	5128.9	5510.6	5946.9
77.5°	1366.0	1512.7	1694.7	1944.6	2187.0	2380.9	2615.1	2783.1	3026.5	3236.6	3458.7
80°	703.1	742.7	796.9	856.9	891.1	885.7	920.5	886.1	893.7	865.6	835.6
82.5°	516.8	530.6	555.2	567.2	566.0	526.5	484.4	426.1	374.7	320.8	271.3
85°	351.2	360.0	366.2	375.5	372.8	355.8	317.9	267.2	217.9	174.8	139.8
87.5°	60.8	62.6	62.1	67.3	67.5	62.6	51.6	44.0	37.1	27.7	19.5
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°	2206.7	2206.7	2206.7	2206.7	2206.7	2206.7	2206.7	2206.7	2206.7	2206.7	2206.7
2.5°	2211.8	2211.7	2213.0	2211.7	2211.7	2211.7	2211.1	2212.4	2211.7	2209.8	2207.9
5°	2240.6	2238.8	2238.1	2239.4	2240.6	2238.1	2240.0	2241.9	2238.8	2239.4	2238.1
7.5°	2289.0	2288.4	2287.7	2289.0	2289.0	2288.4	2289.0	2287.1	2285.9	2287.8	2289.6
10°	2353.8	2353.1	2354.3	2354.4	2356.8	2355.6	2355.0	2356.8	2355.6	2354.3	2355.0
12.5°	2429.8	2427.8	2431.0	2431.0	2432.9	2432.9	2432.2	2432.9	2432.2	2430.4	2429.1
15°	2497.6	2495.1	2495.7	2500.8	2500.2	2501.4	2501.4	2500.1	2499.5	2498.8	2499.5
17.5°	2538.4	2537.2	2537.2	2539.7	2541.6	2541.0	2541.0	2541.0	2540.3	2541.0	2542.2
20°	2546.0	2546.0	2546.6	2549.2	2552.2	2550.4	2550.4	2551.6	2550.4	2551.6	2552.3
22.5°	2531.6	2532.8	2534.0	2537.2	2537.8	2537.8	2537.9	2538.4	2539.7	2539.7	2541.0
25°	2511.4	2512.6	2514.6	2517.1	2519.6	2519.6	2519.6	2520.8	2520.8	2521.4	2522.1
27.5°	2496.4	2497.6	2499.4	2502.0	2505.2	2505.1	2505.1	2506.4	2506.4	2507.0	2508.3
30°	2498.2	2495.7	2497.6	2498.9	2500.8	2500.8	2500.1	2500.8	2501.4	2501.4	2502.0
32.5°	2525.2	2519.6	2517.7	2517.1	2517.8	2515.8	2515.2	2514.0	2512.6	2512.7	2512.1
35°	2596.8	2588.0	2587.4	2582.4	2577.4	2572.4	2573.0	2569.2	2570.5	2567.4	2564.8
37.5°	2744.0	2733.8	2740.2	2729.5	2722.6	2717.5	2711.8	2704.4	2699.9	2705.6	2705.6
40°	3007.2	3000.2	2998.4	3000.3	2994.0	2997.1	2983.3	2979.5	2971.4	2977.0	2984.6
42.5°	3371.0	3366.6	3390.4	3394.8	3397.4	3401.2	3403.6	3382.9	3382.3	3377.9	3365.3
45°	3820.2	3846.6	3845.4	3874.3	3875.6	3866.8	3870.5	3861.0	3857.3	3843.5	3860.4
47.5°	4282.0	4332.3	4351.2	4357.5	4381.4	4387.0	4364.4	4356.8	4370.0	4347.4	4350.5
50°	4777.8	4831.8	4875.8	4905.4	4922.3	4923.6	4906.6	4902.8	4914.8	4872.0	4892.2
52.5°	5265.4	5347.1	5430.0	5474.0	5505.4	5507.9	5521.1	5505.4	5511.7	5501.6	5521.7
55°	5746.0	5887.4	5984.8	6070.9	6125.6	6172.6	6177.1	6194.0	6195.3	6216.0	6195.3
57.5°	6216.0	6370.0	6539.6	6692.3	6777.2	6830.6	6880.8	6949.3	6964.4	6956.2	6969.4
60°	6770.8	7009.0	7239.6	7415.6	7561.9	7702.0	7777.4	7884.9	7901.9	7948.4	7908.1
62.5°	7472.0	7817.6	8130.6	8367.4	8589.8	8807.9	8972.5	9055.4	9105.7	9203.1	9171.1
65°	8547.8	8962.4	9376.6	9715.8	10027.5	10287.0	10537.0	10656.4	10788.4	10926.6	10951.8
67.5°	9433.8	9947.0	10413.9	10827.3	11205.0	11493.3	11753.5	11960.2	12121.0	12222.9	12231.0
69°	9474.0	10007.3	10514.4	10958.0	11352.0	11658.6	11932.6	12162.6	12319.0	12423.3	12450.9
70°	9281.7	9827.6	10368.0	10816.0	11219.4	11533.0	11823.2	12042.5	12217.2	12323.4	12360.5
72.5°	8200.3	8783.4	9360.8	9753.5	10165.8	10538.9	10771.4	10995.1	11241.4	11273.4	11375.2
75°	6464.2	6954.3	7402.4	7702.7	8047.0	8381.9	8610.0	8669.0	8797.8	8960.0	8902.1
77.5°	3746.0	3896.8	4185.9	4260.0	4197.2	4343.0	4391.4	4288.4	4283.3	4378.2	4189.7
80°	830.0	782.9	842.0	798.0	799.2	800.5	787.3	782.2	791.7	782.3	769.1
82.5°	230.0	222.4	223.7	221.2	225.6	222.4	220.6	225.6	225.0	224.3	228.7
85°	110.6	109.4	107.4	106.8	104.3	101.1	96.2	96.1	98.6	94.9	96.8
87.5°	14.4	13.8	13.8	16.3	14.4	12.0	12.0	12.0	11.4	11.4	11.3
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)