

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: P148809

Luminaire Tested: **VWM-E04-LED-E1-RW-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P148809
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-E04-LED-E1-RW-7030
Description: VISION WALL MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11413 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

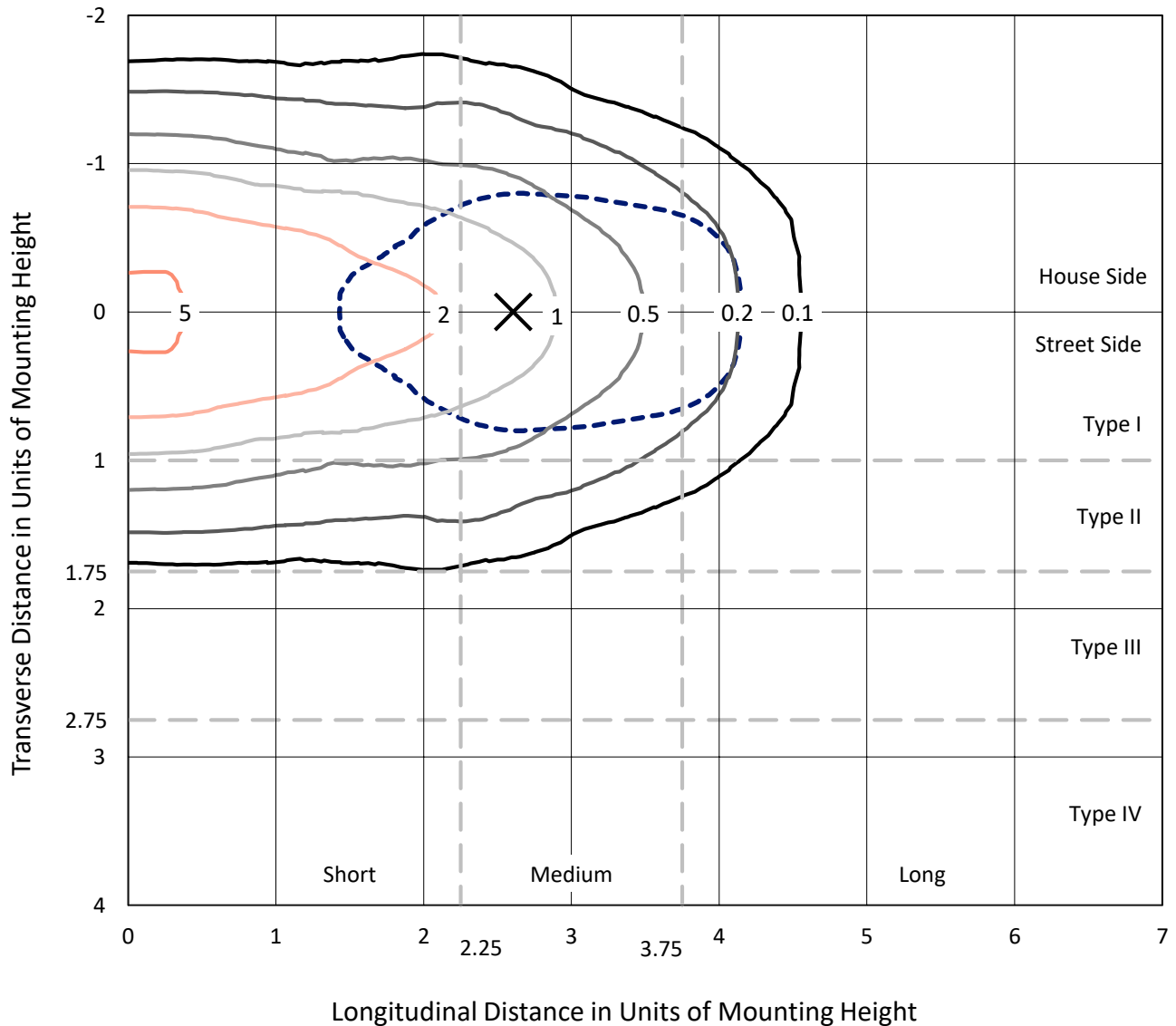
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

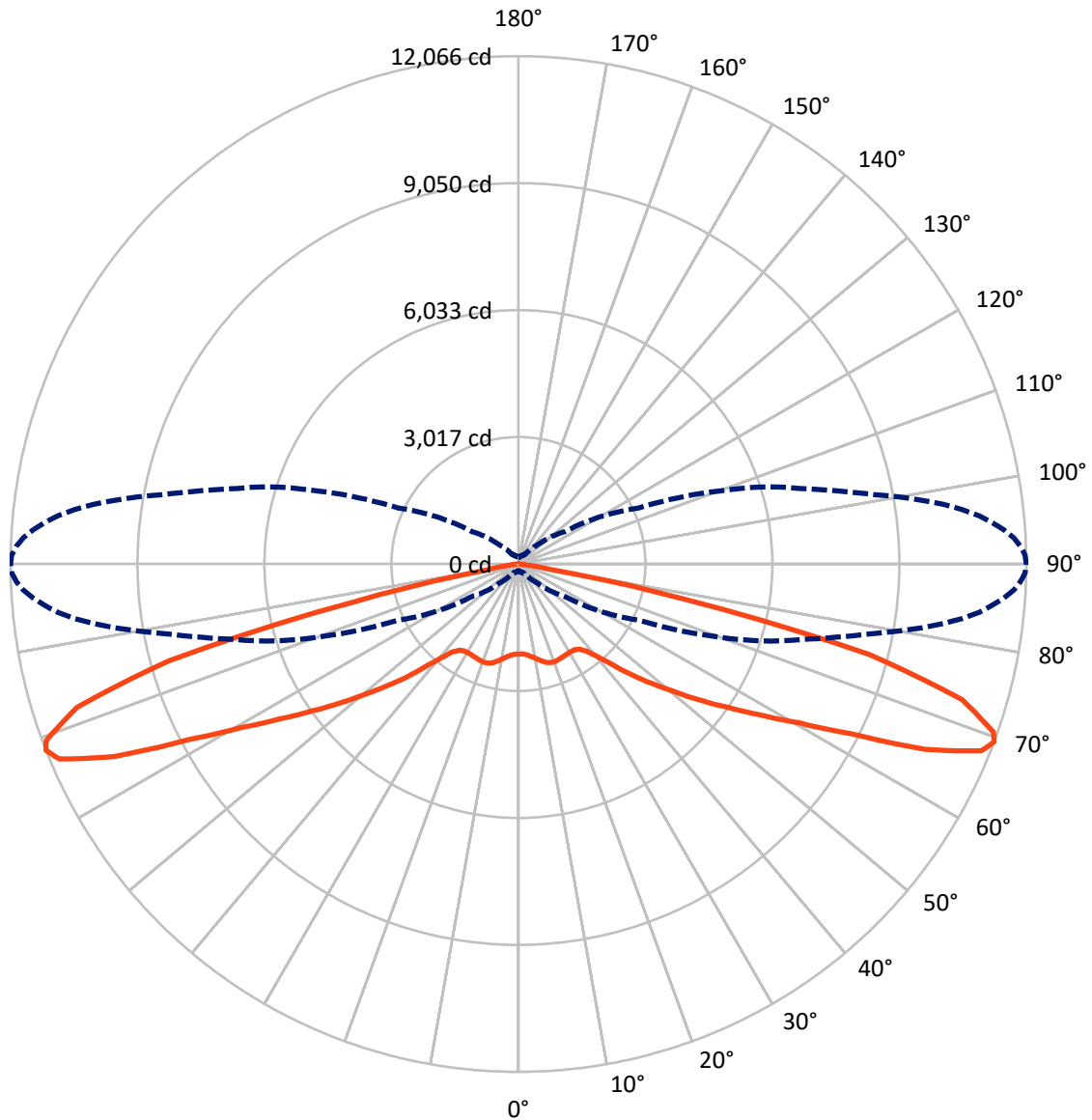
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 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	5706.5	0.0	5706.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5706.5	0.0	5706.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11413.0	0.0	11413.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.8	1.8
10°-20°	661.7	5.8
20°-30°	1072.0	9.4
30°-40°	1336.0	11.7
40°-50°	1669.5	14.6
50°-60°	2061.5	18.1
60°-70°	2561.5	22.4
70°-80°	1700.5	14.9
80°-90°	140.4	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°	11413.0	100.0
0°-180°	11413.0	100.0



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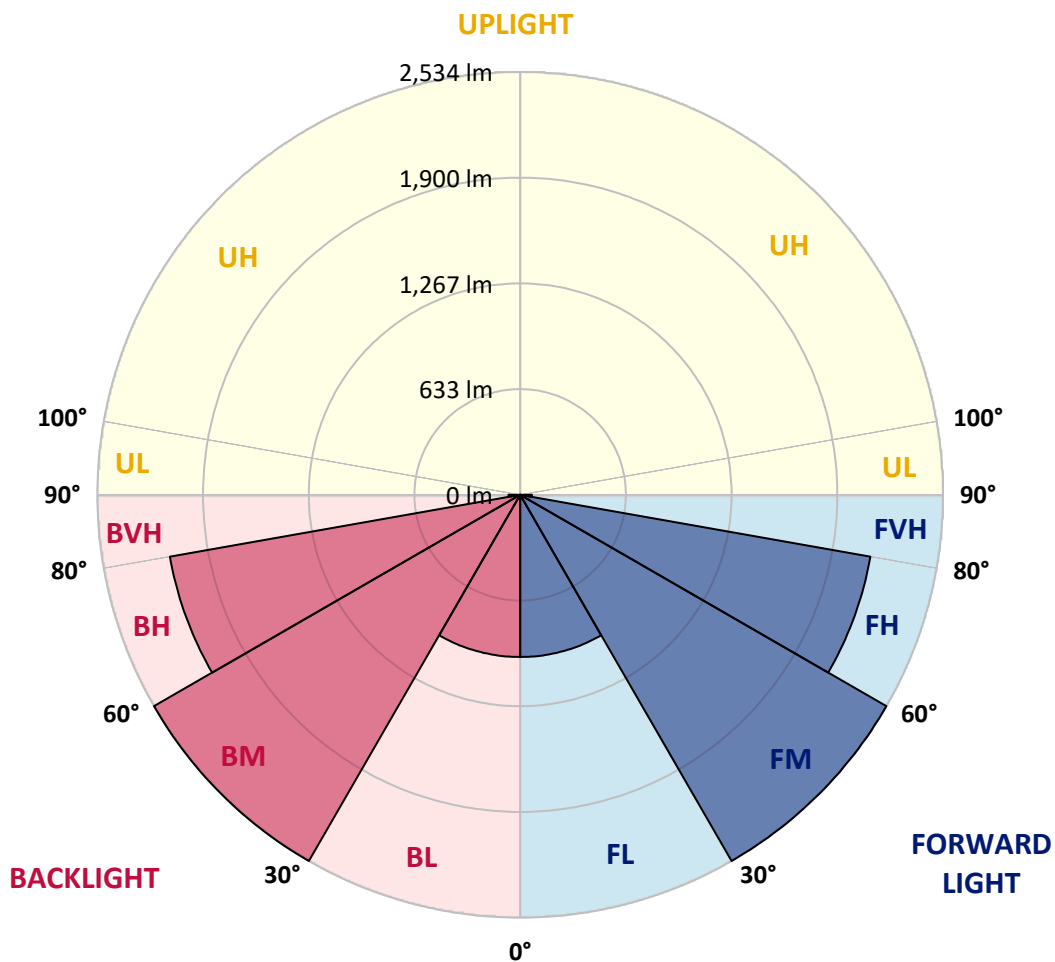
CATALOG NUMBER: VWM-E04-LED-E1-RW-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	971.7	8.5			
FM (30°-60°)	2533.5	22.2			
FH (60°-80°)	2131.0	18.7			G2/5000
FVH (80°-90°)	70.2	0.6			G1/100
BL (0°-30°)	971.7	8.5	B2/1000		
BM (30°-60°)	2533.5	22.2	B3/5000		
BH (60°-80°)	2131.0	18.7	B3/2500		G3/2500
BVH (80°-90°)	70.2	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°	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5
2.5°	2148.2	2150.0	2148.8	2151.2	2150.6	2150.6	2149.4	2147.0	2146.7	2146.4	2146.1
5°	2168.9	2166.4	2170.1	2173.8	2172.6	2173.2	2172.6	2172.6	2172.3	2172.1	2171.8
7.5°	2190.8	2190.2	2192.6	2202.4	2203.6	2207.2	2211.5	2214.6	2214.7	2214.8	2214.9
10°	2209.7	2210.3	2216.4	2230.4	2237.7	2249.3	2260.8	2270.0	2270.6	2271.3	2272.0
12.5°	2225.0	2225.6	2234.6	2256.6	2274.2	2296.2	2321.2	2335.1	2336.4	2337.6	2338.8
15°	2226.1	2228.0	2243.8	2279.7	2315.0	2351.0	2380.8	2399.6	2400.6	2401.6	2402.6
17.5°	2210.3	2211.6	2238.3	2291.3	2350.4	2406.4	2437.4	2446.0	2446.3	2446.7	2447.0
20°	2168.9	2172.0	2209.7	2288.2	2378.4	2451.4	2483.7	2472.1	2471.0	2469.8	2468.6
22.5°	2101.9	2101.3	2150.6	2256.6	2383.9	2486.8	2515.4	2484.9	2481.3	2477.7	2474.1
25°	1993.6	2000.8	2058.7	2185.3	2352.8	2494.6	2537.9	2491.6	2486.4	2481.2	2476.1
27.5°	1876.0	1880.3	1941.8	2077.6	2280.4	2467.3	2548.8	2505.0	2499.2	2493.4	2487.6
30°	1739.0	1744.5	1810.2	1952.2	2164.0	2396.6	2545.9	2535.4	2528.7	2521.9	2515.2
32.5°	1605.1	1611.2	1670.2	1825.5	2041.6	2299.8	2527.6	2578.7	2571.8	2564.8	2557.9
35°	1466.2	1475.4	1547.2	1704.3	1923.5	2192.0	2499.6	2634.1	2630.3	2626.4	2622.6
37.5°	1351.1	1353.0	1422.4	1587.4	1813.9	2089.2	2462.4	2704.1	2706.9	2709.7	2712.5
40°	1222.7	1234.2	1303.6	1477.8	1714.7	2002.0	2427.1	2799.1	2813.6	2828.2	2842.8
42.5°	1107.6	1108.8	1179.4	1359.1	1606.9	1932.0	2407.6	2913.6	2944.7	2975.8	3006.9
45°	986.4	991.3	1055.2	1228.8	1482.6	1849.2	2407.0	3045.8	3095.4	3145.1	3194.8
47.5°	872.0	873.8	941.4	1102.7	1340.2	1733.5	2402.7	3187.6	3255.2	3322.9	3390.5
50°	762.3	760.5	826.9	982.2	1199.5	1582.0	2365.6	3348.4	3433.8	3519.2	3604.6
52.5°	636.9	645.4	714.2	862.8	1071.6	1427.8	2257.2	3524.3	3626.5	3728.7	3830.8
55°	513.9	517.6	591.2	730.0	942.0	1284.2	2068.4	3686.3	3806.7	3927.2	4047.6
57.5°	378.7	389.7	454.2	591.2	810.4	1163.0	1828.6	3770.4	3916.9	4063.5	4210.0
60°	267.3	275.8	333.0	448.2	666.1	1035.8	1622.2	3723.4	3913.9	4104.4	4294.8
62.5°	208.2	214.9	260.6	335.5	519.4	908.5	1474.2	3571.8	3831.0	4090.1	4349.2
65°	182.7	188.8	230.2	268.5	387.9	778.8	1393.2	3411.7	3754.3	4096.8	4439.4
67.5°	165.0	172.3	208.2	235.0	316.0	679.6	1371.8	3310.6	3698.6	4086.6	4474.6
69°	157.1	164.4	196.7	219.2	293.4	644.2	1335.4	3151.7	3537.4	3923.2	4308.9
70°	152.2	158.3	188.1	211.3	286.2	619.8	1274.4	2953.2	3332.0	3710.8	4089.6
72.5°	141.2	144.3	170.4	193.0	265.4	501.2	980.4	2193.2	2521.6	2850.0	3178.4
75°	124.8	128.4	152.9	174.8	207.0	311.2	620.4	1356.6	1601.8	1846.9	2092.1
77.5°	107.8	110.8	132.2	166.9	160.8	194.2	370.8	755.0	897.2	1039.4	1181.6
80°	86.4	90.1	109.0	165.6	132.8	151.0	266.7	528.0	566.3	604.7	643.0
82.5°	63.4	66.4	85.2	134.0	101.7	113.8	203.4	447.5	460.8	474.2	487.5
85°	32.3	32.9	54.2	81.6	64.6	59.0	114.5	306.2	314.8	323.3	331.8
87.5°	5.5	5.5	12.2	14.0	15.8	9.8	14.6	52.4	54.0	55.6	57.3
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°	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5
2.5°	2145.8	2145.4	2144.4	2144.6	2145.4	2145.0	2145.8	2145.9	2146.6	2144.3	2143.8
5°	2171.6	2171.3	2171.2	2171.1	2171.6	2171.5	2172.0	2172.9	2172.7	2171.2	2171.0
7.5°	2215.1	2215.2	2215.8	2215.2	2216.4	2215.8	2214.6	2216.5	2217.9	2218.0	2219.3
10°	2272.6	2273.3	2275.4	2275.2	2277.3	2277.0	2277.3	2279.4	2280.8	2281.0	2282.5
12.5°	2340.0	2341.2	2342.3	2343.4	2345.7	2344.4	2347.3	2348.5	2350.3	2354.0	2352.2
15°	2403.6	2404.6	2407.8	2408.1	2410.1	2411.0	2413.6	2414.8	2415.2	2418.2	2418.6
17.5°	2447.4	2447.8	2449.0	2448.4	2450.2	2449.6	2451.4	2452.4	2454.0	2455.6	2458.4
20°	2467.5	2466.4	2465.7	2465.0	2463.7	2461.8	2462.4	2463.3	2463.5	2464.9	2467.0
22.5°	2470.5	2467.0	2463.2	2460.8	2457.0	2454.0	2450.8	2451.1	2451.3	2451.0	2452.4
25°	2470.9	2465.7	2459.9	2452.9	2447.8	2440.8	2435.0	2434.5	2432.8	2432.9	2433.6
27.5°	2481.8	2476.0	2468.0	2459.9	2448.7	2439.4	2430.1	2426.8	2423.5	2421.5	2420.6
30°	2508.4	2501.6	2492.0	2481.7	2469.6	2455.0	2441.7	2437.5	2432.8	2428.6	2425.1
32.5°	2550.9	2544.0	2533.3	2522.6	2506.3	2492.0	2478.8	2472.1	2465.4	2458.1	2451.4
35°	2618.8	2615.0	2605.5	2596.0	2584.2	2572.9	2561.0	2553.5	2542.3	2536.6	2528.4
37.5°	2715.3	2718.1	2718.1	2719.3	2715.7	2710.2	2701.6	2693.8	2690.1	2674.9	2665.1
40°	2857.3	2871.9	2885.2	2895.5	2904.6	2913.6	2921.5	2916.9	2918.4	2914.3	2908.5
42.5°	3038.1	3069.2	3097.6	3126.0	3146.5	3178.6	3201.0	3208.0	3226.1	3233.1	3246.3
45°	3244.5	3294.2	3341.9	3386.0	3427.0	3472.9	3517.6	3550.8	3587.2	3628.4	3669.5
47.5°	3458.2	3525.8	3596.2	3653.7	3713.0	3781.0	3840.3	3890.4	3955.7	4016.1	4082.5
50°	3690.1	3775.5	3855.6	3926.5	4002.9	4081.2	4162.4	4236.0	4324.2	4420.8	4525.4
52.5°	3933.0	4035.2	4127.8	4216.8	4306.5	4396.2	4482.7	4586.6	4695.4	4823.0	4953.6
55°	4168.1	4288.5	4393.6	4492.6	4595.2	4695.5	4784.8	4923.7	5057.2	5209.5	5380.1
57.5°	4356.6	4503.1	4624.4	4741.9	4857.7	4964.3	5074.0	5230.7	5400.8	5578.9	5795.3
60°	4485.3	4675.7	4830.5	4971.9	5113.9	5248.0	5374.2	5579.0	5781.4	6002.7	6272.0
62.5°	4608.4	4867.6	5069.5	5262.2	5453.8	5625.9	5782.7	6040.4	6304.8	6578.3	6898.7
65°	4782.0	5124.5	5421.9	5690.7	5955.8	6208.7	6443.4	6769.9	7103.7	7463.7	7846.2
67.5°	4862.5	5250.5	5637.8	6000.1	6336.8	6657.1	6958.5	7353.2	7746.1	8163.3	8625.6
69°	4694.6	5080.3	5494.4	5890.1	6262.0	6601.7	6928.0	7331.0	7739.5	8165.6	8631.9
70°	4468.4	4847.2	5265.1	5678.7	6034.5	6388.4	6726.6	7126.3	7540.1	7967.4	8455.5
72.5°	3506.8	3835.2	4242.7	4644.1	5001.2	5356.3	5684.7	6093.9	6510.4	6959.1	7421.3
75°	2337.2	2582.4	2885.9	3258.4	3585.7	3899.6	4217.8	4564.0	4970.4	5340.2	5763.0
77.5°	1323.8	1465.9	1642.4	1884.5	2119.3	2307.3	2534.2	2697.1	2933.0	3136.6	3351.8
80°	681.4	719.7	772.3	830.4	863.6	858.3	892.0	858.7	866.1	838.8	809.7
82.5°	500.9	514.2	538.0	549.6	548.5	510.2	469.4	413.0	363.1	310.9	262.9
85°	340.4	348.9	354.9	363.9	361.3	344.8	308.1	259.0	211.2	169.4	135.6
87.5°	58.9	60.6	60.2	65.2	65.4	60.7	49.9	42.6	35.9	26.8	18.9
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°	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5
2.5°	2143.3	2143.3	2144.6	2143.4	2143.4	2143.4	2142.7	2143.9	2143.3	2141.5	2139.7
5°	2171.4	2169.6	2168.9	2170.1	2171.3	2168.9	2170.8	2172.6	2169.5	2170.1	2168.9
7.5°	2218.2	2217.6	2217.0	2218.2	2218.2	2217.6	2218.2	2216.4	2215.2	2217.0	2218.8
10°	2281.0	2280.4	2281.6	2281.6	2284.0	2282.8	2282.1	2284.0	2282.8	2281.6	2282.2
12.5°	2354.6	2352.8	2355.8	2355.8	2357.6	2357.7	2357.1	2357.7	2357.1	2355.2	2354.0
15°	2420.4	2418.0	2418.6	2423.4	2422.8	2424.0	2424.0	2422.8	2422.2	2421.6	2422.2
17.5°	2460.0	2458.8	2458.8	2461.1	2463.0	2462.4	2462.4	2462.4	2461.8	2462.4	2463.6
20°	2467.2	2467.2	2467.9	2470.3	2473.4	2471.5	2471.5	2472.8	2471.6	2472.8	2473.4
22.5°	2453.2	2454.5	2455.7	2458.8	2459.4	2459.4	2459.4	2460.0	2461.2	2461.2	2462.4
25°	2433.8	2435.0	2436.8	2439.2	2441.6	2441.7	2441.7	2442.9	2442.9	2443.5	2444.1
27.5°	2419.2	2420.4	2422.2	2424.6	2427.7	2427.7	2427.7	2428.9	2428.9	2429.5	2430.7
30°	2421.0	2418.6	2420.4	2421.6	2423.4	2423.4	2422.8	2423.4	2424.0	2424.0	2424.6
32.5°	2447.2	2441.6	2439.9	2439.2	2439.9	2438.0	2437.4	2436.2	2435.0	2435.0	2434.4
35°	2516.6	2508.1	2507.4	2502.6	2497.8	2492.8	2493.4	2489.8	2491.0	2488.0	2485.5
37.5°	2659.0	2649.3	2655.4	2645.0	2638.4	2633.5	2628.0	2620.7	2616.4	2622.0	2621.9
40°	2914.2	2907.5	2905.7	2907.5	2901.4	2904.4	2891.0	2887.4	2879.5	2885.0	2892.3
42.5°	3266.8	3262.5	3285.6	3289.9	3292.3	3296.0	3298.4	3278.4	3277.7	3273.4	3261.3
45°	3702.2	3727.6	3726.5	3754.4	3755.7	3747.2	3750.8	3741.7	3738.0	3724.6	3741.1
47.5°	4149.6	4198.4	4216.6	4222.7	4245.8	4251.4	4229.4	4222.2	4234.9	4213.0	4216.0
50°	4630.0	4682.5	4725.0	4753.7	4770.2	4771.4	4755.0	4751.2	4762.8	4721.4	4740.9
52.5°	5102.6	5181.8	5262.1	5304.7	5335.2	5337.6	5350.4	5335.2	5341.3	5331.5	5351.0
55°	5568.4	5705.4	5799.8	5883.2	5936.2	5981.8	5986.1	6002.5	6003.8	6023.8	6003.8
57.5°	6023.8	6173.0	6337.4	6485.4	6567.6	6619.4	6668.0	6734.4	6749.0	6741.2	6753.9
60°	6561.5	6792.3	7015.8	7186.2	7328.1	7463.9	7537.0	7641.1	7657.6	7702.6	7663.6
62.5°	7241.0	7575.9	7879.2	8108.7	8324.3	8535.6	8695.1	8775.4	8824.2	8918.6	8887.5
65°	8283.5	8685.4	9086.6	9415.4	9717.4	9969.0	10211.2	10327.0	10454.8	10588.8	10613.1
67.5°	9142.0	9639.5	10091.9	10492.6	10858.5	11138.0	11390.1	11590.4	11746.3	11845.0	11852.9
69°	9181.0	9698.0	10189.3	10619.2	11001.0	11298.1	11563.6	11786.4	11938.1	12039.2	12066.0
70°	8994.6	9523.8	10047.5	10481.6	10872.6	11176.4	11457.7	11670.2	11839.4	11942.4	11978.3
72.5°	7946.8	8511.8	9071.4	9452.0	9851.4	10213.0	10438.4	10655.2	10893.8	10924.9	11023.5
75°	6264.4	6739.3	7173.4	7464.5	7798.2	8122.7	8343.8	8401.0	8525.8	8683.0	8626.9
77.5°	3630.2	3776.4	4056.5	4128.3	4067.4	4208.7	4255.6	4155.8	4150.9	4242.8	4060.1
80°	804.3	758.7	816.0	773.3	774.5	775.8	763.0	758.0	767.2	758.0	745.3
82.5°	222.8	215.6	216.8	214.4	218.6	215.6	213.7	218.6	218.0	217.4	221.6
85°	107.2	106.0	104.2	103.5	101.0	98.0	93.2	93.2	95.6	91.9	93.8
87.5°	14.0	13.4	13.4	15.8	14.0	11.6	11.6	11.6	11.0	11.0	11.0
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)