

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: P148823

Luminaire Tested: **VWM-F05-LED-E1-RW-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P148823  
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-8030  
Description: VISION WALL MEDIUM LED LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE  
Light Source: (35) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10882.8 lumens  
Efficiency: N/A  
Efficacy: 81.6 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

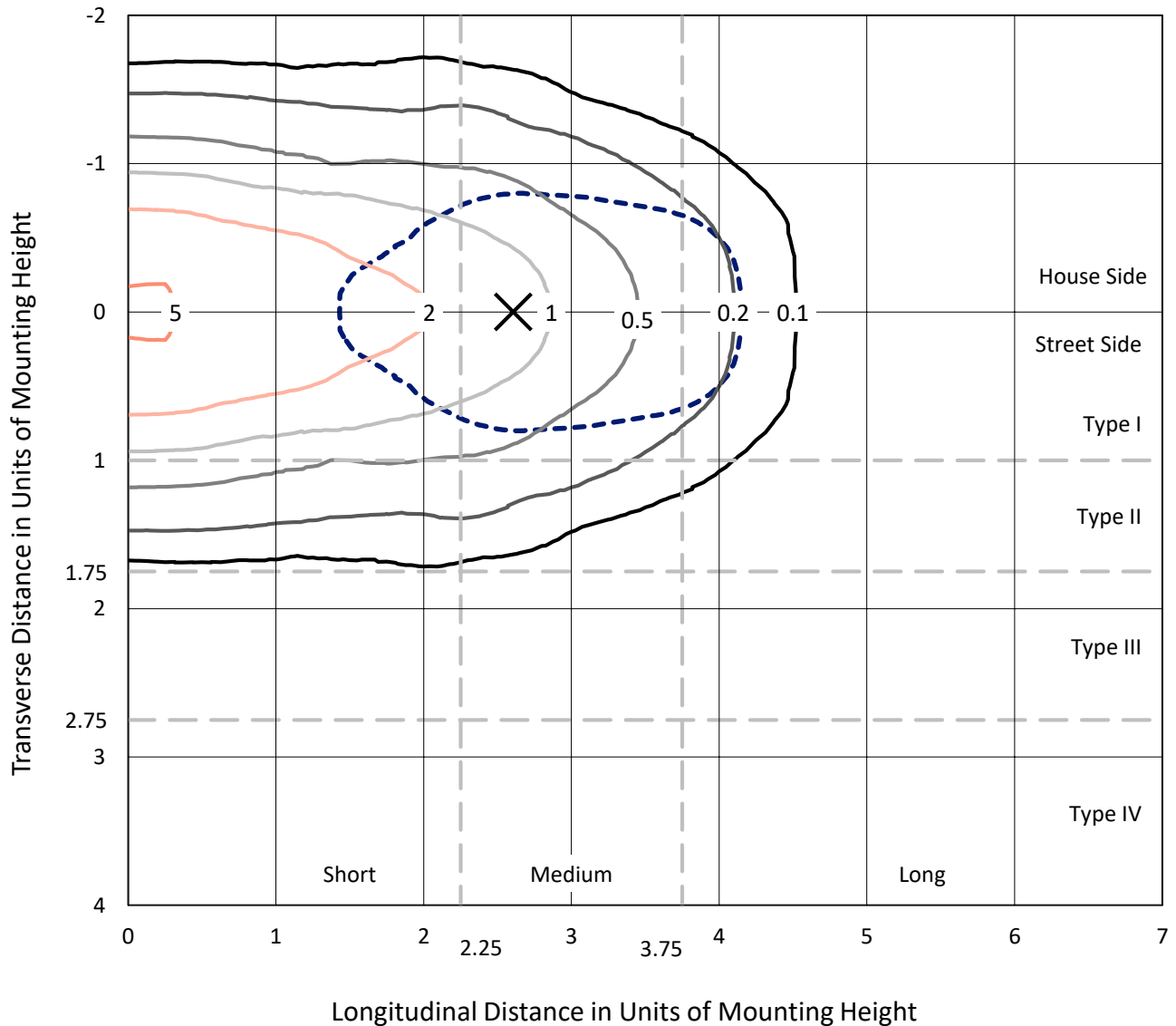
Input Watts (W): 133.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

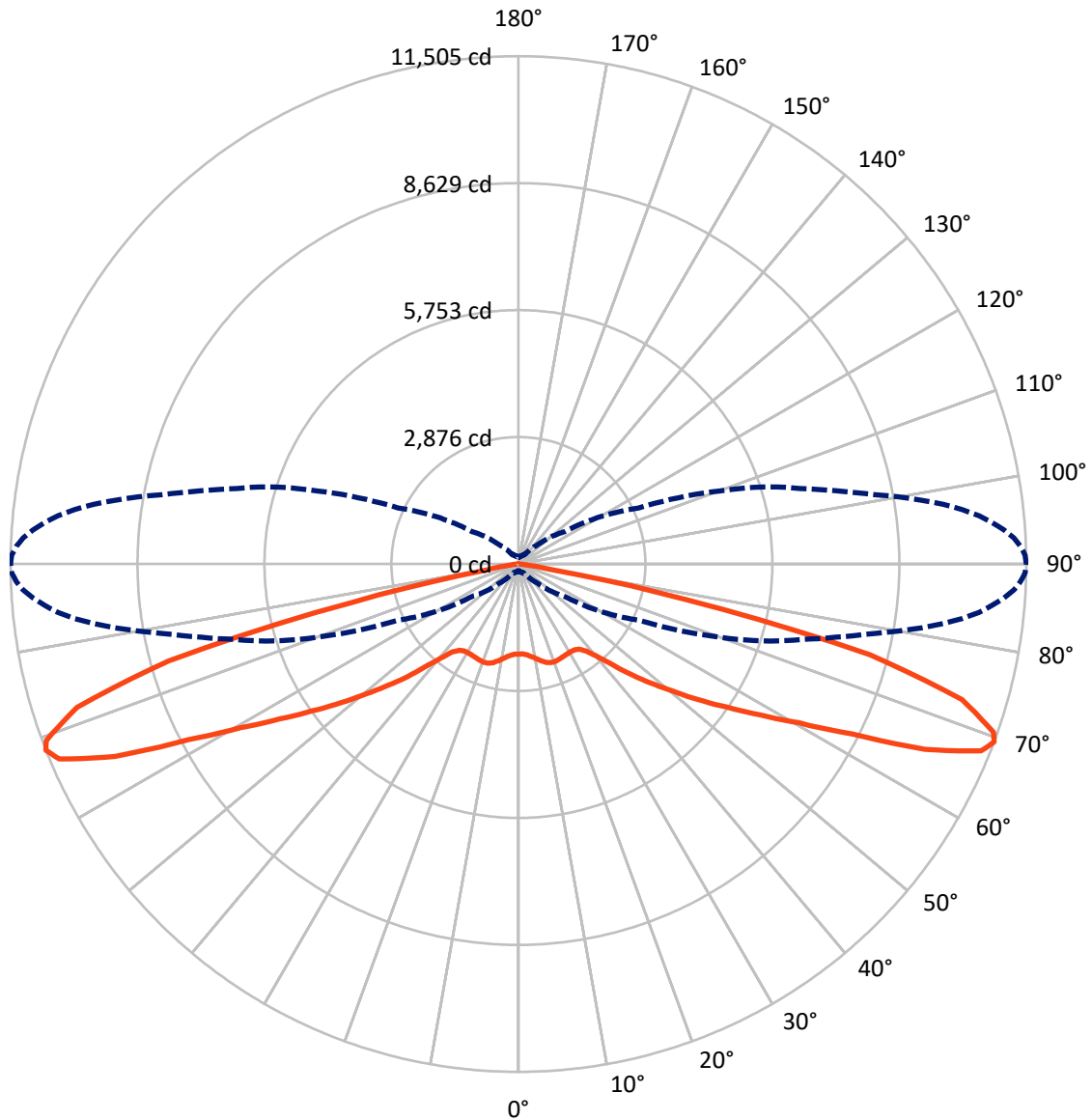
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 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
<b>House Side</b>	Lumens	5441.4	0.0	5441.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5441.4	0.0	5441.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10882.8	0.0	10882.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.0	1.8
10°-20°	631.0	5.8
20°-30°	1022.2	9.4
30°-40°	1274.0	11.7
40°-50°	1592.0	14.6
50°-60°	1965.7	18.1
60°-70°	2442.5	22.4
70°-80°	1621.5	14.9
80°-90°	133.9	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°	10882.8	100.0
0°-180°	10882.8	100.0



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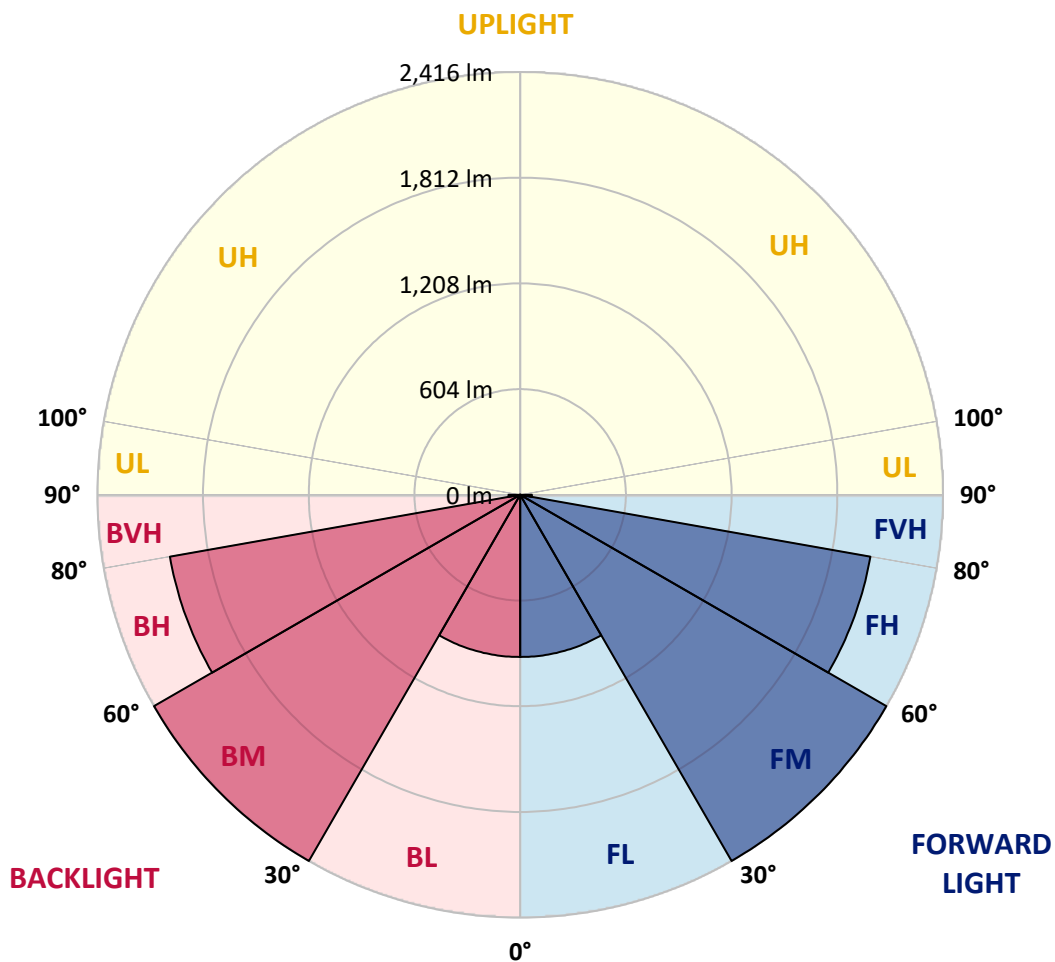
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	926.6	8.5			
FM	(30°-60°)	2415.8	22.2			
FH	(60°-80°)	2032.0	18.7			G2/5000
FVH	(80°-90°)	66.9	0.6			G1/100
BL	(0°-30°)	926.6	8.5	B2/1000		
BM	(30°-60°)	2415.8	22.2	B2/2500		
BH	(60°-80°)	2032.0	18.7	B3/2500		G3/2500
BVH	(80°-90°)	66.9	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-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	2039.1	2039.1	2039.1	2039.1	2039.1	2039.1	2039.1	2039.1	2039.1	2039.1	2039.1
2.5°	2048.4	2050.2	2049.0	2051.3	2050.8	2050.7	2049.6	2047.2	2046.9	2046.6	2046.3
5°	2068.2	2065.8	2069.3	2072.8	2071.6	2072.2	2071.6	2071.6	2071.4	2071.2	2070.9
7.5°	2089.0	2088.4	2090.8	2100.1	2101.2	2104.8	2108.8	2111.7	2111.8	2111.9	2112.1
10°	2107.0	2107.6	2113.4	2126.8	2133.8	2144.8	2155.8	2164.5	2165.1	2165.8	2166.4
12.5°	2121.6	2122.2	2130.8	2151.8	2168.6	2189.5	2213.3	2226.6	2227.8	2229.0	2230.1
15°	2122.7	2124.4	2139.6	2173.9	2207.5	2241.8	2270.2	2288.2	2289.1	2290.0	2291.0
17.5°	2107.6	2108.8	2134.4	2184.9	2241.2	2294.6	2324.2	2332.3	2332.7	2333.0	2333.4
20°	2068.2	2071.0	2107.0	2182.0	2267.9	2337.6	2368.3	2357.3	2356.2	2355.1	2354.0
22.5°	2004.3	2003.7	2050.8	2151.8	2273.1	2371.2	2398.6	2369.5	2366.1	2362.6	2359.2
25°	1900.9	1907.8	1963.0	2083.8	2243.5	2378.8	2420.0	2375.8	2370.9	2366.0	2361.1
27.5°	1788.8	1792.9	1851.6	1981.0	2174.4	2352.6	2430.4	2388.6	2383.1	2377.6	2372.1
30°	1658.2	1663.4	1726.2	1861.4	2063.5	2285.3	2427.5	2417.6	2411.2	2404.8	2398.3
32.5°	1530.4	1536.3	1592.6	1740.6	1946.8	2193.0	2410.1	2458.9	2452.3	2445.6	2439.0
35°	1398.1	1406.8	1475.4	1625.1	1834.2	2090.2	2383.4	2511.8	2508.1	2504.4	2500.8
37.5°	1288.4	1290.2	1356.3	1513.6	1729.6	1992.1	2348.0	2578.5	2581.2	2583.9	2586.5
40°	1165.8	1176.9	1243.1	1409.2	1635.0	1909.0	2314.4	2669.0	2682.9	2696.8	2710.7
42.5°	1056.1	1057.3	1124.6	1295.9	1532.2	1842.3	2295.8	2778.2	2807.9	2837.6	2867.2
45°	940.6	945.2	1006.2	1171.7	1413.8	1763.4	2295.2	2904.2	2951.6	2999.0	3046.4
47.5°	831.4	833.2	897.6	1051.5	1277.9	1653.0	2291.1	3039.5	3104.0	3168.5	3233.0
50°	727.0	725.2	788.4	936.6	1143.8	1508.4	2255.7	3192.8	3274.3	3355.7	3437.2
52.5°	607.4	615.4	681.1	822.7	1021.8	1361.6	2152.4	3360.6	3458.0	3555.4	3652.9
55°	490.0	493.5	563.8	696.2	898.2	1224.6	1972.4	3515.0	3629.9	3744.7	3859.6
57.5°	361.2	371.6	433.2	563.8	772.8	1109.0	1743.6	3595.2	3734.9	3874.6	4014.4
60°	254.9	263.0	317.6	427.3	635.2	987.6	1546.8	3550.4	3732.1	3913.7	4095.3
62.5°	198.6	205.0	248.6	319.9	495.3	866.2	1405.6	3405.9	3653.0	3900.1	4147.2
65°	174.2	180.0	219.4	256.0	369.8	742.6	1328.4	3253.2	3579.8	3906.4	4233.1
67.5°	157.4	164.3	198.6	224.2	301.4	648.0	1308.1	3156.8	3526.8	3896.7	4266.7
69°	149.8	156.8	187.6	209.0	279.8	614.2	1273.3	3005.2	3373.1	3740.9	4108.7
70°	145.2	151.0	179.4	201.4	272.9	591.0	1215.2	2816.0	3177.2	3538.4	3899.6
72.5°	134.7	137.6	162.6	184.0	253.2	477.8	934.8	2091.4	2404.5	2717.6	3030.7
75°	119.0	122.5	145.8	166.6	197.4	296.7	591.6	1293.6	1527.4	1761.1	1994.9
77.5°	102.8	105.6	126.0	159.1	153.2	185.2	353.6	719.9	855.5	991.1	1126.7
80°	82.4	85.9	103.9	158.0	126.5	144.0	254.4	503.4	540.0	576.6	613.1
82.5°	60.4	63.3	81.2	127.7	97.0	108.6	193.9	426.8	439.5	452.2	464.9
85°	30.8	31.4	51.7	77.8	61.6	56.4	109.2	292.0	300.2	308.3	316.4
87.5°	5.2	5.2	11.6	13.4	15.1	9.3	14.0	49.9	51.5	53.0	54.6
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°	2039.1	2039.1	2039.1	2039.1	2039.1	2039.1	2039.1	2039.1	2039.1	2039.1	2039.1
2.5°	2046.1	2045.8	2044.8	2045.0	2045.7	2045.3	2046.0	2046.2	2046.9	2044.7	2044.2
5°	2070.7	2070.5	2070.3	2070.3	2070.7	2070.6	2071.0	2072.0	2071.8	2070.4	2070.2
7.5°	2112.2	2112.3	2112.9	2112.3	2113.4	2112.9	2111.7	2113.6	2114.8	2115.0	2116.2
10°	2167.1	2167.7	2169.8	2169.5	2171.5	2171.2	2171.5	2173.5	2174.9	2175.1	2176.5
12.5°	2231.3	2232.4	2233.5	2234.5	2236.7	2235.5	2238.2	2239.4	2241.1	2244.7	2242.9
15°	2291.9	2292.8	2296.0	2296.2	2298.2	2299.0	2301.6	2302.6	2303.0	2305.8	2306.3
17.5°	2333.7	2334.1	2335.2	2334.7	2336.4	2335.8	2337.6	2338.5	2340.0	2341.5	2344.2
20°	2352.9	2351.8	2351.1	2350.5	2349.2	2347.4	2348.0	2348.8	2349.0	2350.4	2352.4
22.5°	2355.8	2352.4	2348.8	2346.4	2342.9	2339.9	2337.0	2337.2	2337.4	2337.1	2338.5
25°	2356.1	2351.2	2345.7	2339.0	2334.0	2327.4	2321.8	2321.4	2319.8	2319.9	2320.6
27.5°	2366.6	2361.1	2353.3	2345.6	2335.0	2326.1	2317.2	2314.1	2311.0	2309.0	2308.2
30°	2391.9	2385.4	2376.2	2366.4	2354.9	2341.0	2328.2	2324.3	2319.8	2315.8	2312.5
32.5°	2432.4	2425.8	2415.6	2405.3	2389.9	2376.2	2363.6	2357.3	2350.9	2343.9	2337.5
35°	2497.1	2493.4	2484.5	2475.5	2464.1	2453.4	2442.0	2434.9	2424.2	2418.7	2411.0
37.5°	2589.2	2591.9	2591.9	2593.0	2589.6	2584.3	2576.2	2568.6	2565.2	2550.6	2541.4
40°	2724.6	2738.5	2751.2	2761.0	2769.7	2778.3	2785.8	2781.4	2782.8	2779.0	2773.4
42.5°	2896.9	2926.6	2953.7	2980.8	3000.4	3031.0	3052.3	3059.0	3076.2	3083.0	3095.5
45°	3093.8	3141.1	3186.6	3228.7	3267.8	3311.6	3354.2	3385.9	3420.5	3459.8	3499.0
47.5°	3297.5	3362.0	3429.1	3484.0	3540.6	3605.3	3661.9	3709.6	3771.9	3829.5	3892.9
50°	3518.6	3600.1	3676.4	3744.1	3816.9	3891.5	3969.1	4039.2	4123.3	4215.5	4315.2
52.5°	3750.3	3847.7	3936.0	4021.0	4106.4	4191.9	4274.4	4373.5	4477.2	4598.9	4723.5
55°	3974.4	4089.3	4189.5	4283.9	4381.8	4477.4	4562.4	4695.0	4822.2	4967.5	5130.2
57.5°	4154.2	4293.9	4409.5	4521.6	4632.0	4733.7	4838.2	4987.7	5149.9	5319.7	5526.0
60°	4276.9	4458.5	4606.1	4740.9	4876.3	5004.2	5124.5	5319.8	5512.8	5723.8	5980.7
62.5°	4394.3	4641.4	4834.0	5017.8	5200.4	5364.5	5514.1	5759.8	6011.9	6272.7	6578.2
65°	4559.8	4886.4	5170.0	5426.3	5679.1	5920.3	6144.0	6455.4	6773.6	7116.9	7481.6
67.5°	4636.7	5006.6	5375.9	5721.4	6042.4	6347.8	6635.2	7011.6	7386.2	7784.1	8224.8
69°	4476.5	4844.4	5239.1	5616.5	5971.1	6295.1	6606.2	6990.5	7379.9	7786.3	8230.9
70°	4260.8	4622.0	5020.5	5414.9	5754.1	6091.6	6414.0	6795.3	7189.8	7597.2	8062.6
72.5°	3343.8	3657.0	4045.6	4428.4	4768.8	5107.5	5420.6	5810.8	6207.9	6635.8	7076.5
75°	2228.6	2462.4	2751.9	3107.0	3419.1	3718.5	4021.9	4351.9	4739.4	5092.1	5495.2
77.5°	1262.2	1397.8	1566.0	1797.0	2020.9	2200.1	2416.5	2571.8	2796.7	2990.8	3196.0
80°	649.7	686.3	736.4	791.8	823.4	818.4	850.6	818.8	825.8	799.9	772.1
82.5°	477.6	490.3	513.0	524.1	523.0	486.5	447.6	393.8	346.3	296.4	250.7
85°	324.6	332.7	338.4	347.0	344.5	328.7	293.8	247.0	201.4	161.5	129.3
87.5°	56.2	57.8	57.4	62.2	62.4	57.9	47.6	40.7	34.3	25.6	18.0
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°	2039.1	2039.1	2039.1	2039.1	2039.1	2039.1	2039.1	2039.1	2039.1	2039.1	2039.1
2.5°	2043.8	2043.8	2044.9	2043.8	2043.8	2043.8	2043.2	2044.4	2043.8	2042.0	2040.3
5°	2070.5	2068.8	2068.2	2069.3	2070.4	2068.1	2069.9	2071.6	2068.7	2069.3	2068.1
7.5°	2115.2	2114.6	2114.0	2115.2	2115.2	2114.6	2115.1	2113.4	2112.2	2114.0	2115.8
10°	2175.0	2174.4	2175.6	2175.6	2177.8	2176.7	2176.2	2177.9	2176.7	2175.6	2176.1
12.5°	2245.2	2243.5	2246.4	2246.4	2248.2	2248.1	2247.6	2248.1	2247.6	2245.8	2244.6
15°	2307.9	2305.6	2306.2	2310.9	2310.2	2311.4	2311.4	2310.2	2309.6	2309.1	2309.7
17.5°	2345.7	2344.5	2344.5	2346.8	2348.6	2348.0	2348.0	2348.0	2347.4	2348.0	2349.2
20°	2352.6	2352.6	2353.2	2355.6	2358.4	2356.8	2356.7	2357.9	2356.7	2357.8	2358.4
22.5°	2339.3	2340.4	2341.6	2344.6	2345.1	2345.1	2345.0	2345.6	2346.8	2346.9	2348.0
25°	2320.7	2321.8	2323.6	2326.0	2328.2	2328.2	2328.3	2329.4	2329.4	2330.0	2330.6
27.5°	2306.8	2307.9	2309.7	2312.0	2314.9	2314.9	2314.9	2316.0	2316.0	2316.6	2317.8
30°	2308.5	2306.2	2308.0	2309.1	2310.8	2310.9	2310.2	2310.9	2311.4	2311.4	2312.0
32.5°	2333.5	2328.3	2326.5	2326.0	2326.5	2324.8	2324.2	2323.0	2321.8	2321.9	2321.3
35°	2399.7	2391.6	2391.0	2386.3	2381.6	2377.0	2377.6	2374.2	2375.3	2372.4	2370.1
37.5°	2535.5	2526.2	2532.0	2522.2	2515.8	2511.2	2506.0	2499.0	2494.9	2500.1	2500.1
40°	2778.9	2772.4	2770.7	2772.4	2766.6	2769.5	2756.8	2753.2	2745.8	2751.0	2757.9
42.5°	3115.0	3111.0	3133.0	3137.0	3139.4	3142.9	3145.2	3126.0	3125.4	3121.4	3109.8
45°	3530.1	3554.5	3553.4	3580.0	3581.2	3573.0	3576.6	3567.8	3564.4	3551.6	3567.3
47.5°	3956.9	4003.4	4020.8	4026.6	4048.6	4053.8	4033.0	4026.0	4038.2	4017.2	4020.2
50°	4415.0	4464.9	4505.5	4532.8	4548.5	4549.7	4534.0	4530.5	4541.6	4502.0	4520.7
52.5°	4865.5	4941.0	5017.6	5058.3	5087.4	5089.6	5101.8	5087.4	5093.2	5083.8	5102.4
55°	5309.8	5440.4	5530.4	5609.8	5660.4	5704.0	5708.0	5723.7	5724.8	5744.0	5724.8
57.5°	5744.0	5886.2	6043.0	6184.2	6262.5	6311.8	6358.3	6421.6	6435.5	6428.0	6440.2
60°	6256.7	6476.8	6689.8	6852.4	6987.7	7117.2	7186.8	7286.1	7301.8	7344.8	7307.6
62.5°	6904.6	7224.0	7513.1	7732.0	7937.6	8139.1	8291.2	8367.8	8414.2	8504.2	8474.6
65°	7898.6	8281.8	8664.5	8978.0	9266.0	9505.8	9736.8	9847.2	9969.1	10096.8	10120.1
67.5°	8717.3	9191.7	9623.1	10005.1	10354.1	10620.6	10861.0	11052.0	11200.6	11294.6	11302.2
69°	8754.4	9247.4	9716.0	10125.9	10490.0	10773.3	11026.4	11238.9	11383.5	11479.9	11505.4
70°	8576.8	9081.4	9580.7	9994.7	10367.4	10657.2	10925.4	11128.0	11289.4	11387.6	11421.8
72.5°	7577.6	8116.4	8650.0	9012.8	9393.8	9738.6	9953.4	10160.1	10387.7	10417.3	10511.4
75°	5973.4	6426.2	6840.2	7117.8	7435.9	7745.4	7956.2	8010.7	8129.8	8279.6	8226.1
77.5°	3461.6	3601.0	3868.0	3936.6	3878.5	4013.2	4057.9	3962.7	3958.0	4045.7	3871.5
80°	767.0	723.4	778.0	737.4	738.5	739.7	727.5	722.8	731.6	722.8	710.7
82.5°	212.5	205.6	206.7	204.4	208.4	205.6	203.8	208.4	207.8	207.2	211.3
85°	102.2	101.0	99.2	98.7	96.4	93.5	88.8	88.8	91.2	87.6	89.4
87.5°	13.4	12.8	12.8	15.1	13.4	11.0	11.0	11.0	10.4	10.4	10.5
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)