

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: P148804

Luminaire Tested: **VWM-F03-LED-E1-RW-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P148804  
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-F03-LED-E1-RW-7030  
Description: VISION WALL MEDIUM LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE  
Light Source: (21) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7066.3 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 78.3  
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

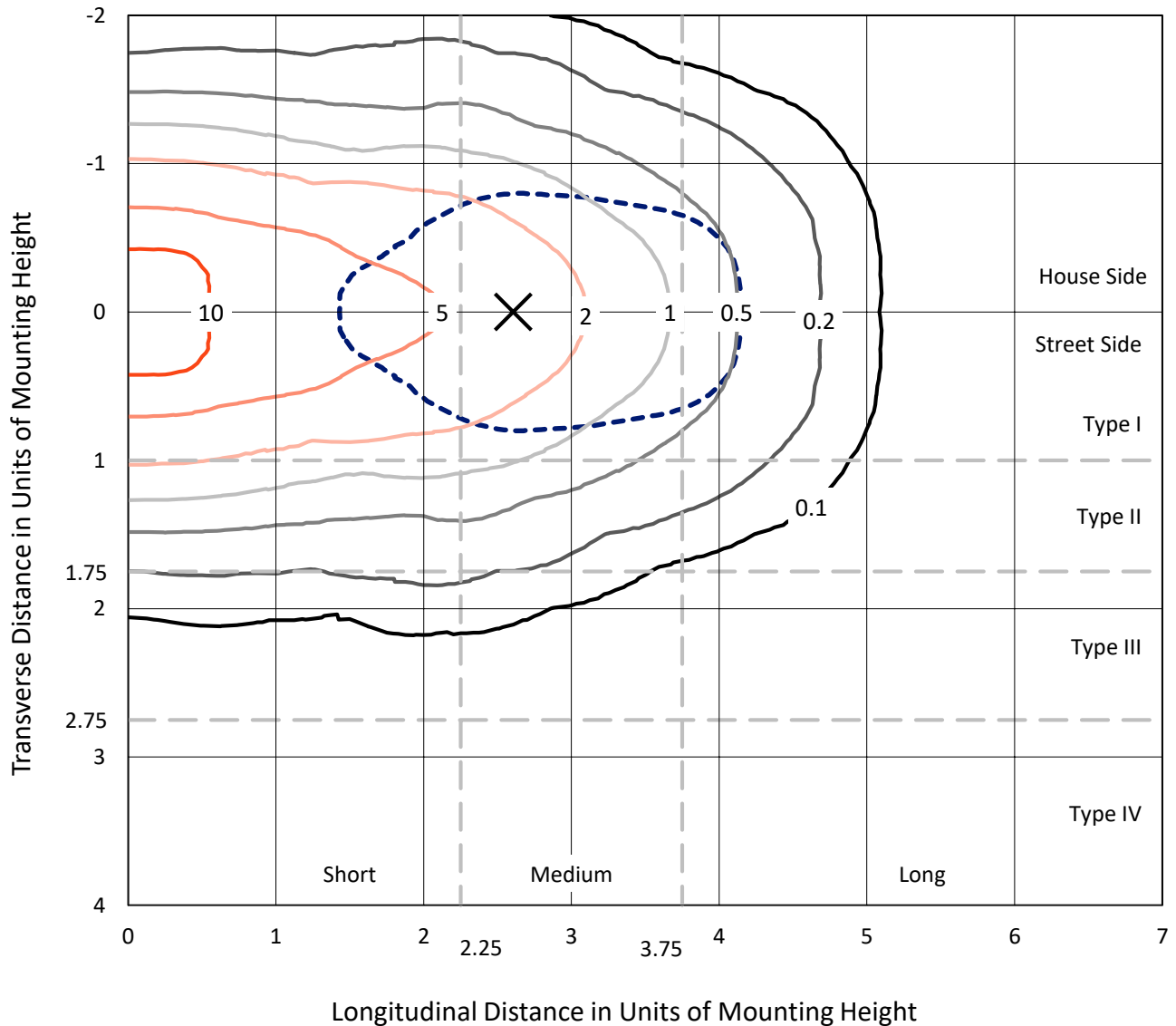


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### Iso-Footcandle Lines of Horizontal Illumination

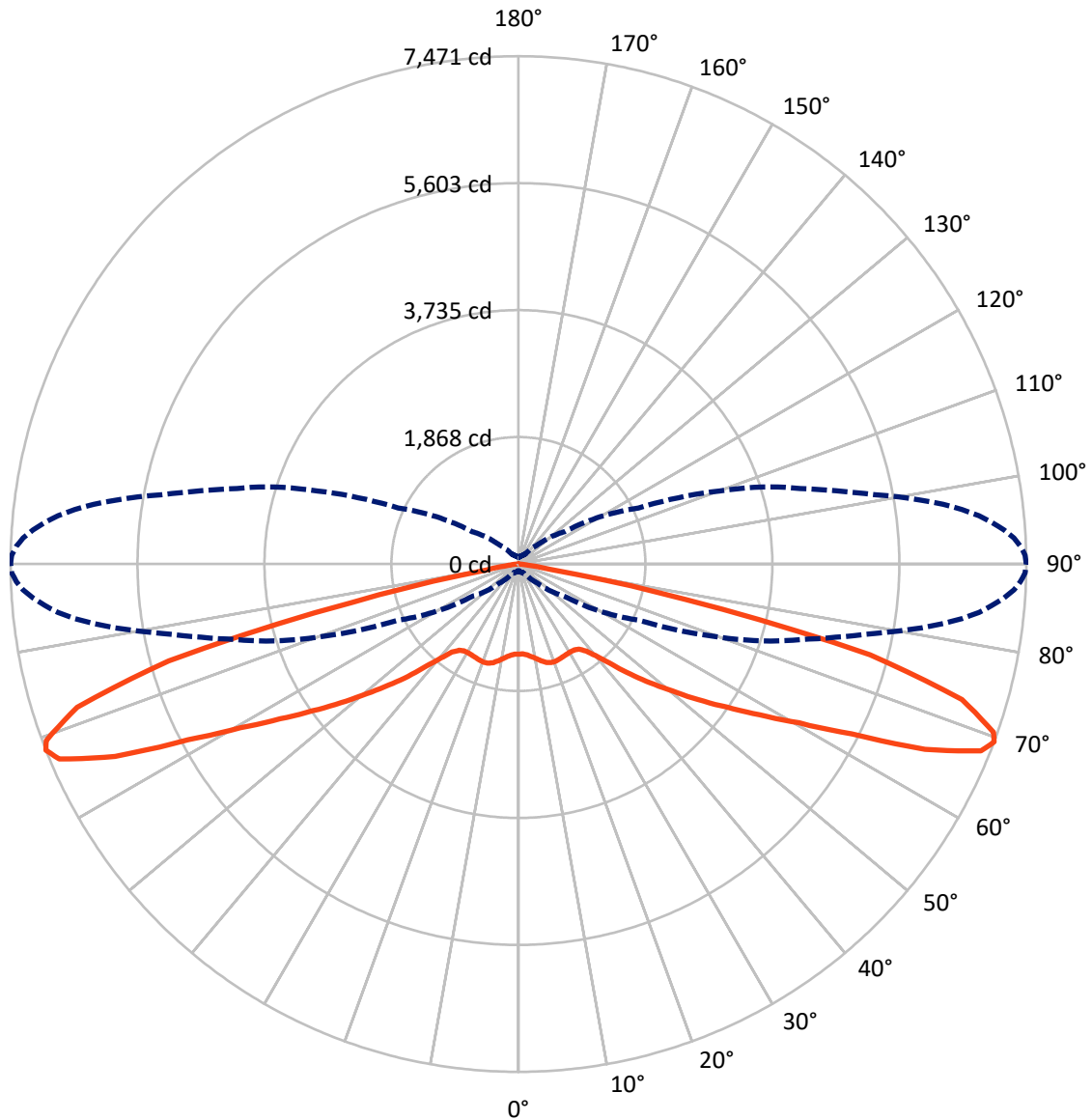
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.5 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
<b>House Side</b>	Lumens	3533.1	0.0	3533.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3533.1	0.0	3533.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7066.3	0.0	7066.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.9	1.8
10°-20°	409.7	5.8
20°-30°	663.7	9.4
30°-40°	827.2	11.7
40°-50°	1033.7	14.6
50°-60°	1276.4	18.1
60°-70°	1586.0	22.4
70°-80°	1052.9	14.9
80°-90°	86.9	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°	7066.3	100.0
0°-180°	7066.3	100.0



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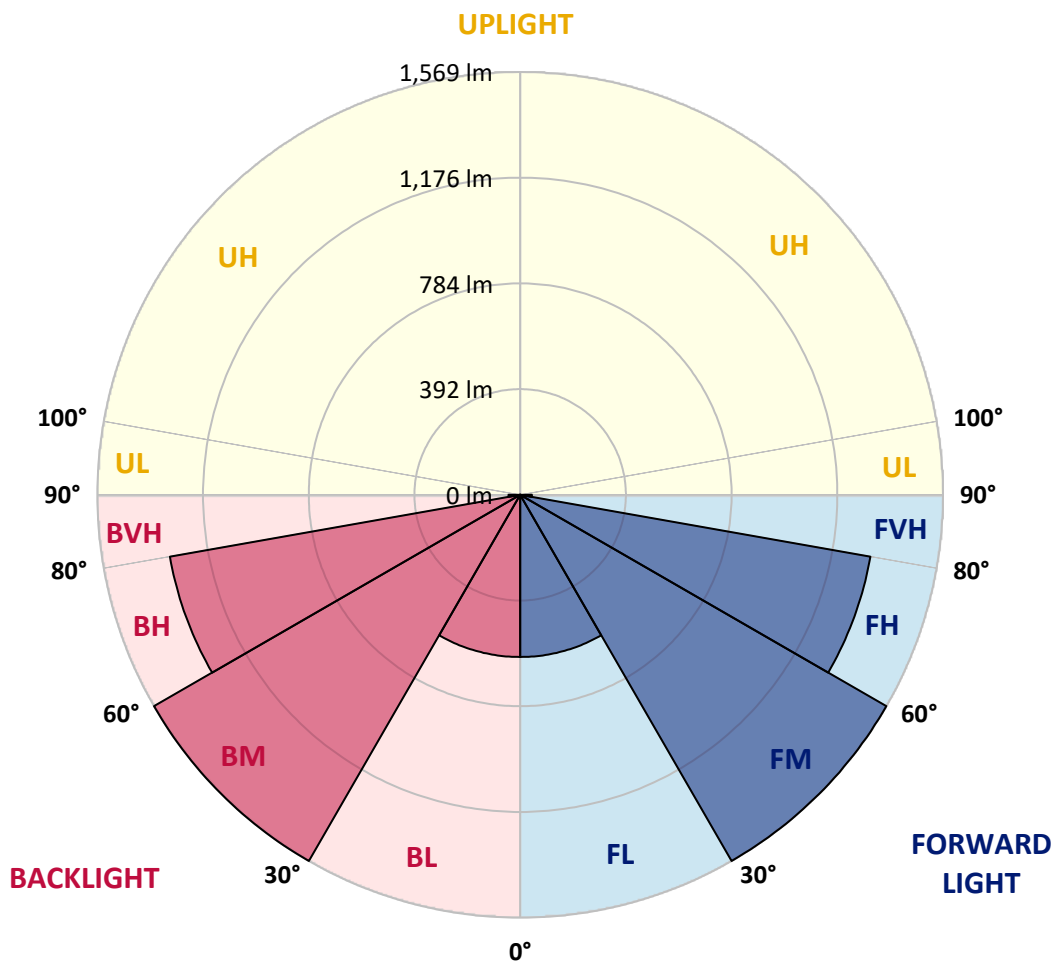
CATALOG NUMBER: VWM-F03-LED-E1-RW-7030

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	601.7	8.5			
FM (30°-60°)	1568.6	22.2			
FH (60°-80°)	1319.4	18.7			G1/1800
FVH (80°-90°)	43.5	0.6			G1/100
BL (0°-30°)	601.7	8.5	B2/1000		
BM (30°-60°)	1568.6	22.2	B2/2500		
BH (60°-80°)	1319.4	18.7	B3/2500		G3/2500
BVH (80°-90°)	43.5	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°	1324.0	1324.0	1324.0	1324.0	1324.0	1324.0	1324.0	1324.0	1324.0	1324.0	1324.0
2.5°	1330.1	1331.2	1330.4	1332.0	1331.6	1331.6	1330.8	1329.3	1329.1	1328.9	1328.7
5°	1342.8	1341.4	1343.6	1345.8	1345.2	1345.6	1345.1	1345.1	1345.0	1344.8	1344.7
7.5°	1356.4	1356.0	1357.6	1363.6	1364.4	1366.6	1369.2	1371.2	1371.2	1371.3	1371.4
10°	1368.2	1368.5	1372.2	1381.0	1385.4	1392.6	1399.8	1405.4	1405.8	1406.2	1406.6
12.5°	1377.6	1377.9	1383.6	1397.2	1408.1	1421.6	1437.2	1445.8	1446.6	1447.3	1448.1
15°	1378.3	1379.4	1389.2	1411.5	1433.3	1455.6	1474.0	1485.8	1486.4	1487.0	1487.6
17.5°	1368.5	1369.2	1385.8	1418.6	1455.2	1489.9	1509.1	1514.4	1514.6	1514.8	1515.1
20°	1342.9	1344.8	1368.2	1416.8	1472.6	1517.8	1537.8	1530.6	1529.9	1529.2	1528.5
22.5°	1301.4	1301.0	1331.6	1397.2	1475.9	1539.6	1557.4	1538.6	1536.3	1534.1	1531.9
25°	1234.2	1238.8	1274.6	1353.0	1456.7	1544.6	1571.3	1542.7	1539.5	1536.3	1533.1
27.5°	1161.6	1164.2	1202.2	1286.3	1411.9	1527.6	1578.1	1551.0	1547.4	1543.8	1540.2
30°	1076.7	1080.1	1120.8	1208.6	1339.8	1483.9	1576.2	1569.8	1565.6	1561.4	1557.3
32.5°	993.8	997.6	1034.1	1130.2	1264.1	1424.0	1564.9	1596.6	1592.3	1588.0	1583.7
35°	907.8	913.4	958.0	1055.2	1190.9	1357.2	1547.6	1630.9	1628.5	1626.2	1623.8
37.5°	836.6	837.7	880.6	982.8	1123.1	1293.4	1524.6	1674.2	1676.0	1677.7	1679.5
40°	757.0	764.2	807.2	915.0	1061.6	1239.6	1502.7	1733.0	1742.1	1751.1	1760.1
42.5°	685.8	686.6	730.2	841.4	994.9	1196.2	1490.6	1803.9	1823.2	1842.4	1861.7
45°	610.8	613.8	653.3	760.8	918.0	1145.0	1490.2	1885.7	1916.5	1947.2	1978.0
47.5°	539.9	541.0	582.8	682.8	829.8	1073.3	1487.6	1973.6	2015.5	2057.4	2099.2
50°	472.0	470.8	512.0	608.1	742.6	979.4	1464.6	2073.1	2126.0	2178.9	2231.8
52.5°	394.4	399.6	442.2	534.2	663.5	884.0	1397.6	2182.0	2245.3	2308.6	2371.8
55°	318.2	320.4	366.0	452.0	583.2	795.0	1280.7	2282.4	2356.9	2431.5	2506.1
57.5°	234.5	241.2	281.2	366.0	501.8	720.1	1132.2	2334.4	2425.1	2515.9	2606.6
60°	165.5	170.8	206.2	277.4	412.4	641.2	1004.4	2305.4	2423.3	2541.2	2659.1
62.5°	129.0	133.0	161.4	207.7	321.6	562.4	912.7	2211.5	2372.0	2532.4	2692.9
65°	113.1	116.8	142.6	166.2	240.2	482.2	862.6	2112.3	2324.4	2536.5	2748.6
67.5°	102.2	106.7	128.9	145.5	195.6	420.8	849.4	2049.7	2289.9	2530.2	2770.4
69°	97.2	101.8	121.8	135.8	181.8	398.8	826.8	1951.4	2190.2	2429.0	2667.8
70°	94.2	98.0	116.5	130.8	177.2	383.8	789.0	1828.4	2063.0	2297.5	2532.0
72.5°	87.5	89.4	105.6	119.5	164.4	310.2	607.0	1358.0	1561.3	1764.6	1967.9
75°	77.3	79.6	94.6	108.2	128.2	192.6	384.2	840.0	991.7	1143.5	1295.3
77.5°	66.7	68.6	81.8	103.3	99.6	120.2	229.6	467.4	555.5	643.5	731.6
80°	53.6	55.8	67.5	102.5	82.2	93.5	165.1	326.8	350.6	374.4	398.1
82.5°	39.2	41.1	52.8	82.9	63.0	70.5	126.0	277.1	285.4	293.6	301.9
85°	20.0	20.3	33.6	50.5	40.0	36.6	70.9	189.6	194.9	200.2	205.4
87.5°	3.4	3.4	7.6	8.6	9.8	6.1	9.0	32.4	33.4	34.4	35.5
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):**

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	1324.0	1324.0	1324.0	1324.0	1324.0	1324.0	1324.0	1324.0	1324.0	1324.0	1324.0
2.5°	1328.6	1328.4	1327.7	1327.9	1328.3	1328.1	1328.6	1328.6	1329.1	1327.7	1327.3
5°	1344.5	1344.4	1344.3	1344.2	1344.5	1344.4	1344.8	1345.4	1345.2	1344.3	1344.1
7.5°	1371.4	1371.5	1371.9	1371.5	1372.3	1371.9	1371.2	1372.4	1373.2	1373.2	1374.1
10°	1407.1	1407.5	1408.8	1408.6	1409.9	1409.7	1410.0	1411.2	1412.1	1412.3	1413.2
12.5°	1448.8	1449.6	1450.2	1450.9	1452.4	1451.5	1453.3	1454.1	1455.2	1457.5	1456.3
15°	1488.2	1488.8	1490.8	1491.0	1492.2	1492.8	1494.4	1495.1	1495.4	1497.2	1497.5
17.5°	1515.3	1515.5	1516.3	1515.9	1517.0	1516.6	1517.8	1518.4	1519.4	1520.3	1522.1
20°	1527.8	1527.0	1526.6	1526.2	1525.4	1524.3	1524.6	1525.1	1525.2	1526.2	1527.4
22.5°	1529.6	1527.4	1525.1	1523.6	1521.3	1519.4	1517.4	1517.6	1517.7	1517.5	1518.4
25°	1529.9	1526.6	1523.1	1518.7	1515.5	1511.2	1507.6	1507.3	1506.3	1506.3	1506.8
27.5°	1536.7	1533.1	1528.0	1523.0	1516.1	1510.3	1504.6	1502.5	1500.5	1499.3	1498.7
30°	1553.1	1548.9	1542.9	1536.5	1529.0	1520.0	1511.8	1509.2	1506.2	1503.7	1501.5
32.5°	1579.4	1575.1	1568.5	1561.8	1551.8	1542.9	1534.8	1530.6	1526.5	1521.9	1517.8
35°	1621.4	1619.0	1613.2	1607.3	1600.0	1593.0	1585.6	1581.0	1574.1	1570.5	1565.4
37.5°	1681.2	1683.0	1682.9	1683.7	1681.4	1678.0	1672.8	1667.8	1665.6	1656.1	1650.1
40°	1769.1	1778.1	1786.4	1792.7	1798.3	1803.9	1808.8	1805.9	1806.9	1804.4	1800.8
42.5°	1881.0	1900.2	1917.8	1935.4	1948.2	1968.0	1981.9	1986.3	1997.4	2001.8	2009.9
45°	2008.8	2039.5	2069.1	2096.4	2121.8	2150.2	2177.9	2198.5	2221.0	2246.5	2272.0
47.5°	2141.1	2183.0	2226.6	2262.2	2298.9	2341.0	2377.7	2408.7	2449.1	2486.5	2527.7
50°	2284.7	2337.6	2387.2	2431.0	2478.4	2526.8	2577.2	2622.7	2677.3	2737.1	2801.9
52.5°	2435.1	2498.4	2555.7	2610.8	2666.3	2721.9	2775.4	2839.8	2907.1	2986.2	3067.0
55°	2580.6	2655.2	2720.3	2781.6	2845.1	2907.2	2962.4	3048.5	3131.1	3225.4	3331.1
57.5°	2697.3	2788.1	2863.1	2935.9	3007.6	3073.6	3141.5	3238.5	3343.9	3454.1	3588.1
60°	2777.0	2895.0	2990.8	3078.4	3166.3	3249.3	3327.4	3454.2	3579.5	3716.5	3883.3
62.5°	2853.3	3013.8	3138.7	3258.1	3376.7	3483.2	3580.4	3739.9	3903.6	4072.9	4271.3
65°	2960.7	3172.8	3357.0	3523.3	3687.5	3844.1	3989.4	4191.5	4398.2	4621.1	4857.9
67.5°	3010.6	3250.8	3490.6	3714.9	3923.4	4121.7	4308.3	4552.7	4795.9	5054.3	5340.5
69°	2906.6	3145.5	3401.8	3646.8	3877.2	4087.5	4289.5	4539.0	4791.9	5055.7	5344.4
70°	2766.6	3001.1	3259.8	3515.9	3736.2	3955.3	4164.7	4412.2	4668.5	4933.0	5235.1
72.5°	2171.2	2374.5	2626.8	2875.4	3096.4	3316.3	3519.6	3773.0	4030.9	4308.7	4594.9
75°	1447.1	1598.8	1786.8	2017.4	2220.1	2414.5	2611.4	2825.7	3077.3	3306.3	3568.1
77.5°	819.6	907.6	1016.8	1166.8	1312.2	1428.6	1569.1	1669.9	1816.0	1942.0	2075.2
80°	421.8	445.6	478.2	514.1	534.7	531.4	552.3	531.6	536.2	519.4	501.3
82.5°	310.1	318.4	333.1	340.3	339.6	315.9	290.6	255.7	224.9	192.5	162.8
85°	210.7	216.0	219.7	225.3	223.7	213.4	190.8	160.4	130.7	104.9	83.9
87.5°	36.5	37.5	37.3	40.4	40.5	37.6	30.9	26.4	22.2	16.6	11.7
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°	1324.0	1324.0	1324.0	1324.0	1324.0	1324.0	1324.0	1324.0	1324.0	1324.0	1324.0
2.5°	1327.0	1327.0	1327.8	1327.0	1327.0	1327.0	1326.6	1327.4	1327.0	1325.9	1324.8
5°	1344.4	1343.2	1342.8	1343.6	1344.4	1342.8	1344.0	1345.1	1343.2	1343.6	1342.9
7.5°	1373.4	1373.0	1372.6	1373.4	1373.4	1373.0	1373.4	1372.2	1371.5	1372.6	1373.8
10°	1412.2	1411.9	1412.6	1412.6	1414.1	1413.4	1413.0	1414.1	1413.4	1412.6	1413.0
12.5°	1457.8	1456.7	1458.6	1458.6	1459.8	1459.8	1459.4	1459.8	1459.4	1458.2	1457.5
15°	1498.6	1497.0	1497.4	1500.4	1500.1	1500.8	1500.8	1500.0	1499.7	1499.3	1499.7
17.5°	1523.0	1522.4	1522.3	1523.8	1525.0	1524.6	1524.6	1524.6	1524.2	1524.6	1525.3
20°	1527.6	1527.6	1528.0	1529.5	1531.4	1530.2	1530.2	1531.0	1530.2	1531.0	1531.4
22.5°	1519.0	1519.6	1520.4	1522.4	1522.7	1522.7	1522.7	1523.1	1523.8	1523.8	1524.6
25°	1506.8	1507.6	1508.8	1510.2	1511.8	1511.8	1511.8	1512.5	1512.5	1512.9	1513.3
27.5°	1497.8	1498.6	1499.7	1501.2	1503.1	1503.1	1503.1	1503.8	1503.8	1504.2	1505.0
30°	1499.0	1497.4	1498.6	1499.3	1500.4	1500.4	1500.1	1500.4	1500.8	1500.8	1501.2
32.5°	1515.2	1511.8	1510.6	1510.2	1510.6	1509.5	1509.1	1508.4	1507.6	1507.6	1507.2
35°	1558.2	1552.9	1552.5	1549.4	1546.4	1543.4	1543.8	1541.5	1542.3	1540.4	1538.9
37.5°	1646.4	1640.3	1644.1	1637.7	1633.6	1630.5	1627.1	1622.6	1619.9	1623.4	1623.3
40°	1804.3	1800.2	1799.0	1800.2	1796.4	1798.2	1790.0	1787.7	1782.8	1786.2	1790.7
42.5°	2022.6	2020.0	2034.3	2037.0	2038.4	2040.7	2042.2	2029.8	2029.4	2026.8	2019.2
45°	2292.2	2308.0	2307.2	2324.6	2325.3	2320.0	2322.3	2316.6	2314.4	2306.0	2316.3
47.5°	2569.2	2599.4	2610.8	2614.5	2628.8	2632.2	2618.6	2614.1	2622.0	2608.4	2610.3
50°	2866.7	2899.1	2925.5	2943.2	2953.4	2954.2	2944.0	2941.8	2948.8	2923.2	2935.3
52.5°	3159.2	3208.2	3258.0	3284.4	3303.2	3304.8	3312.6	3303.2	3307.0	3301.0	3313.0
55°	3447.6	3532.5	3590.9	3642.6	3675.4	3703.6	3706.2	3716.4	3717.2	3729.6	3717.2
57.5°	3729.6	3822.0	3923.8	4015.4	4066.3	4098.4	4128.5	4169.6	4178.6	4173.7	4181.6
60°	4062.6	4205.4	4343.8	4449.4	4537.2	4621.2	4666.5	4730.9	4741.2	4769.0	4744.9
62.5°	4483.2	4690.6	4878.4	5020.4	5154.0	5284.8	5383.5	5433.3	5463.5	5521.9	5502.6
65°	5128.6	5377.5	5625.9	5829.5	6016.5	6172.2	6322.2	6393.9	6473.0	6556.0	6571.1
67.5°	5660.2	5968.2	6248.3	6496.4	6723.0	6896.0	7052.1	7176.2	7272.6	7333.7	7338.6
69°	5684.4	6004.4	6308.7	6574.8	6811.2	6995.2	7159.6	7297.5	7391.4	7454.0	7470.6
70°	5569.0	5896.6	6220.8	6489.6	6731.6	6919.8	7094.0	7225.5	7330.4	7394.0	7416.3
72.5°	4920.2	5270.0	5616.5	5852.2	6099.4	6323.4	6462.8	6597.0	6744.8	6764.1	6825.1
75°	3878.6	4172.6	4441.4	4621.6	4828.2	5029.2	5166.0	5201.4	5278.7	5376.0	5341.3
77.5°	2247.6	2338.2	2511.6	2556.0	2518.4	2605.8	2634.8	2573.0	2570.0	2627.0	2513.8
80°	498.0	469.7	505.2	478.8	479.6	480.3	472.4	469.4	475.0	469.4	461.4
82.5°	138.0	133.4	134.2	132.7	135.3	133.4	132.4	135.4	135.0	134.6	137.2
85°	66.4	65.6	64.4	64.1	62.6	60.6	57.7	57.6	59.2	57.0	58.1
87.5°	8.7	8.3	8.2	9.8	8.6	7.2	7.2	7.2	6.8	6.8	6.8
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)