

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: P149939

Luminaire Tested: **VWM-E03-LED-E1-SL2-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P149939  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33678)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VWM-E03-LED-E1-SL2-7030  
Description: VISION WALL MEDIUM LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL  
Light Source: (63) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8371.1 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G2

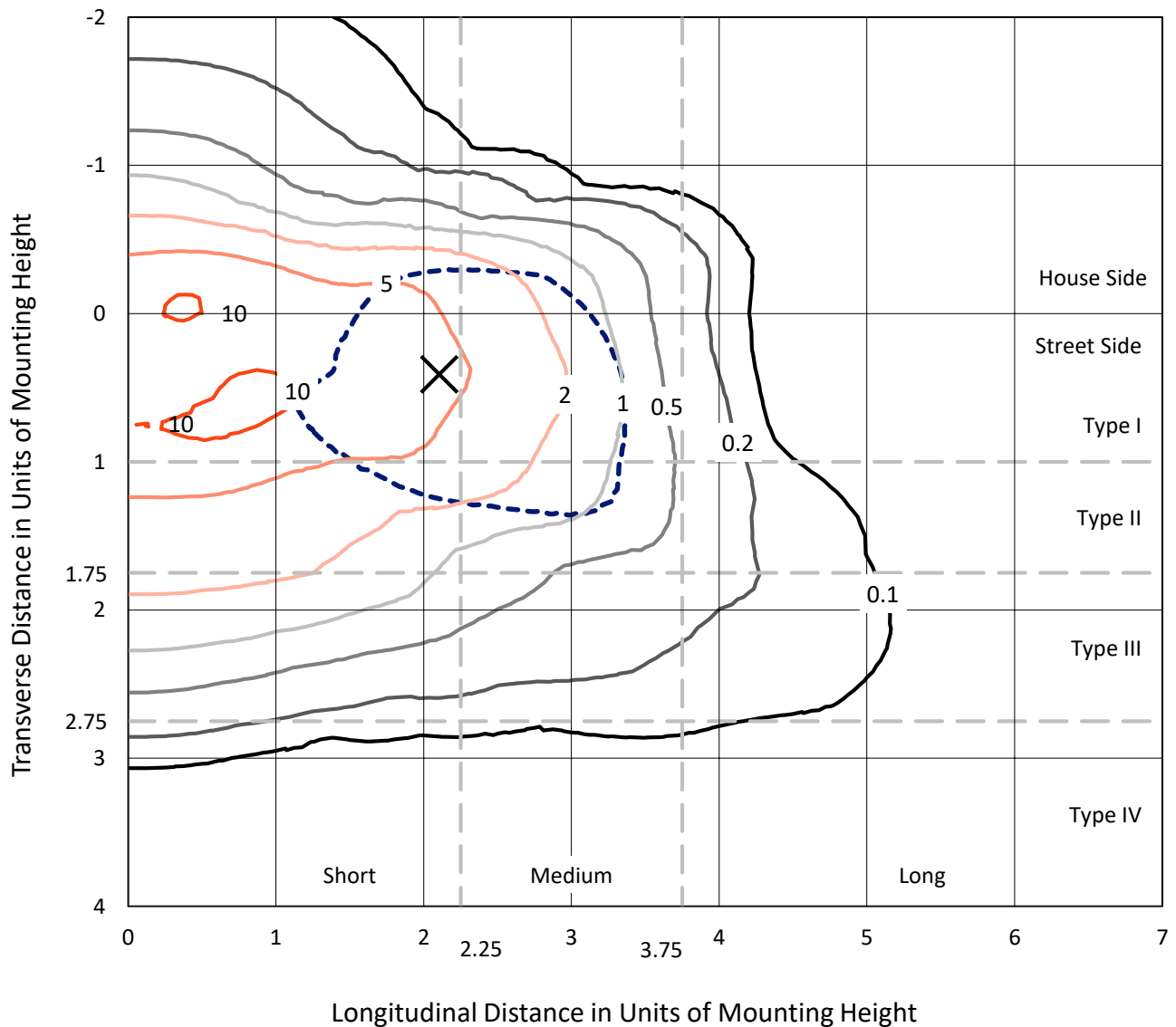
Input Watts (W): 75.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

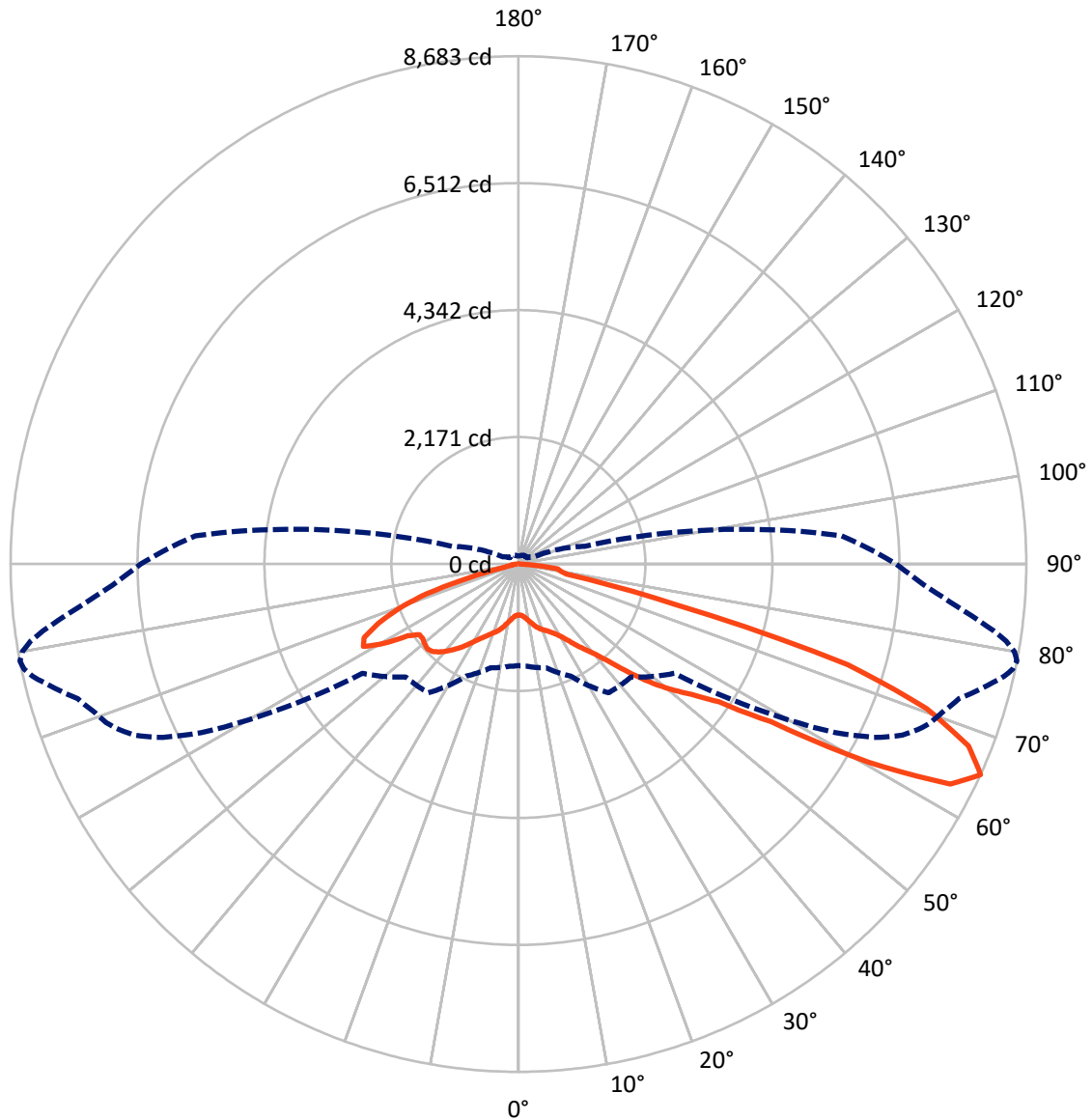
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.5 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1978.9	0.0	1978.9
	% Fixture	23.6	0.0	23.6
<b>Street Side</b>	Lumens	6392.2	0.0	6392.2
	% Fixture	76.4	0.0	76.4
<b>Total</b>	Lumens	8371.1	0.0	8371.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.6	1.0
10°-20°	283.2	3.4
20°-30°	489.2	5.8
30°-40°	809.7	9.7
40°-50°	1373.3	16.4
50°-60°	1824.7	21.8
60°-70°	2357.0	28.2
70°-80°	988.5	11.8
80°-90°	158.8	1.9
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°	8371.1	100.0
0°-180°	8371.1	100.0



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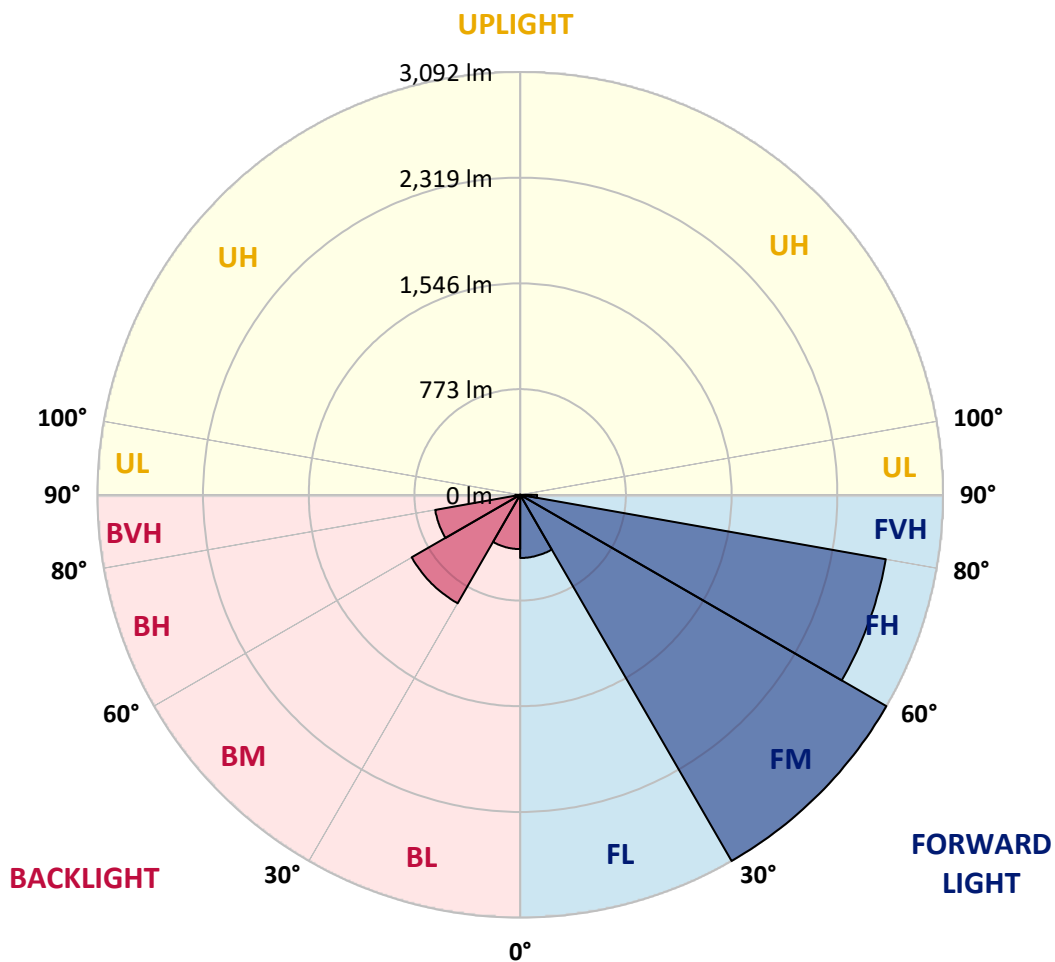
CATALOG NUMBER: VWM-E03-LED-E1-SL2-7030

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	461.9	5.5			
FM (30°-60°)	3091.7	36.9			
FH (60°-80°)	2714.4	32.4			G2/5000
FVH (80°-90°)	124.2	1.5			G2/225
BL (0°-30°)	397.1	4.7	B1/500		
BM (30°-60°)	916.0	10.9	B1/1000		
BH (60°-80°)	631.1	7.5	B2/1000		G2/1000
BVH (80°-90°)	34.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3
2.5°	868.6	871.3	869.5	871.3	873.2	874.1	875.9	875.0	875.0	875.9	874.1
5°	868.6	868.6	871.3	875.9	877.7	883.2	889.6	888.7	889.6	888.7	890.5
7.5°	886.9	885.9	888.7	894.2	896.0	904.2	915.2	917.0	918.8	918.8	921.6
10°	918.8	917.9	920.7	923.4	926.1	932.5	948.1	954.5	955.4	956.3	959.9
12.5°	959.0	958.1	954.5	954.5	953.5	965.4	986.4	998.3	1000.1	1003.8	1006.5
15°	987.3	984.6	979.1	975.5	980.0	999.2	1030.3	1044.0	1045.8	1048.5	1055.8
17.5°	1014.7	1012.0	1000.1	991.0	997.4	1028.4	1070.4	1085.1	1088.7	1091.5	1099.7
20°	1053.1	1051.3	1033.9	1012.0	1010.2	1050.4	1101.5	1120.7	1123.4	1127.1	1135.3
22.5°	1111.5	1103.3	1083.2	1042.1	1022.0	1063.1	1123.4	1149.9	1153.6	1157.2	1168.2
25°	1184.6	1181.0	1146.3	1083.2	1041.2	1075.9	1147.2	1180.0	1185.5	1190.1	1204.7
27.5°	1260.4	1254.9	1217.5	1135.3	1075.0	1101.5	1184.6	1222.1	1229.4	1236.7	1250.4
30°	1328.0	1326.2	1295.1	1205.6	1129.8	1149.9	1244.9	1290.6	1298.8	1307.9	1320.7
32.5°	1486.9	1487.8	1455.9	1364.5	1262.3	1237.6	1331.7	1400.2	1403.8	1414.8	1437.6
35°	1791.1	1794.7	1782.9	1710.7	1595.6	1494.2	1503.4	1571.0	1574.6	1583.7	1605.7
37.5°	1994.8	2002.1	2038.6	2061.4	2003.0	1956.4	1840.4	1813.9	1816.7	1811.2	1806.6
40°	2107.1	2118.1	2214.0	2332.7	2396.6	2397.5	2347.3	2230.4	2185.6	2172.9	2118.1
42.5°	2171.0	2189.3	2325.4	2528.2	2711.7	2837.8	2868.8	2739.1	2706.3	2647.8	2542.8
45°	2213.0	2235.0	2395.7	2673.4	2943.7	3158.4	3320.0	3262.5	3240.6	3204.9	3108.1
47.5°	2205.7	2223.1	2390.2	2722.7	3065.2	3370.3	3657.1	3716.4	3689.9	3680.8	3615.0
50°	2072.4	2087.9	2257.8	2600.3	2998.5	3450.6	3870.8	4038.8	4038.8	4056.2	4036.1
52.5°	1929.9	1942.7	2097.1	2404.9	2783.0	3372.1	3989.5	4268.1	4304.6	4334.8	4382.3
55°	1876.0	1891.5	2008.5	2271.5	2599.4	3147.4	4029.7	4439.8	4507.4	4558.5	4666.3
57.5°	1901.6	1917.1	2000.2	2199.3	2491.6	2918.2	4031.5	4670.9	4801.5	4906.5	5124.8
60°	2012.1	2026.7	2096.1	2266.0	2463.3	2785.7	3953.9	5039.0	5247.2	5444.5	5808.0
62.5°	1961.0	1979.2	2080.6	2376.5	2674.3	2685.2	3673.5	5323.9	5659.1	5950.5	6528.6
65°	1737.2	1756.4	1835.8	2112.6	2687.1	2729.1	3257.9	5329.4	5745.9	6139.5	6763.4
67.5°	1318.9	1326.2	1389.2	1611.2	2149.1	2777.5	2830.5	4698.3	5094.7	5534.0	6177.9
70°	674.1	686.8	705.1	889.6	1383.7	2295.2	2432.3	3462.5	3967.6	4421.5	5195.1
72.5°	233.8	238.4	256.7	339.8	674.1	1506.1	2129.0	2372.9	2677.9	3102.7	3998.6
75°	140.7	140.7	147.0	171.7	307.8	784.6	1894.3	1938.1	1979.2	2121.7	2708.1
77.5°	111.4	113.3	113.3	117.8	170.8	402.8	1438.5	1802.0	1807.5	1821.2	1919.9
80°	79.5	83.1	90.4	94.1	110.5	221.0	807.4	1581.9	1689.7	1741.8	1813.9
82.5°	59.4	63.0	76.7	81.3	85.9	123.3	362.6	1091.5	1287.8	1391.9	1645.9
85°	26.5	31.1	52.1	57.5	60.3	65.8	169.9	310.5	357.1	401.0	528.8
87.5°	4.6	4.6	8.2	11.9	17.4	16.4	37.4	53.0	53.9	63.0	70.3
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):**

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3
2.5°	874.1	874.1	874.1	873.2	874.1	874.1	874.1	874.1	875.0	875.0	875.0
5°	893.3	891.4	892.3	892.3	892.3	891.4	893.3	892.3	893.3	896.0	895.1
7.5°	921.6	923.4	924.3	925.2	925.2	925.2	926.1	928.0	928.0	930.7	929.8
10°	963.6	962.7	963.6	966.3	969.1	970.0	972.7	971.8	973.6	977.3	980.9
12.5°	1008.3	1010.2	1012.9	1015.6	1020.2	1021.1	1023.9	1024.8	1030.3	1030.3	1033.9
15°	1058.6	1059.5	1065.0	1065.9	1071.4	1073.2	1077.8	1079.6	1086.0	1086.9	1090.5
17.5°	1104.2	1106.1	1108.8	1111.5	1117.9	1120.7	1124.3	1128.0	1133.5	1135.3	1141.7
20°	1140.8	1144.4	1145.3	1150.8	1156.3	1160.0	1163.6	1167.3	1172.7	1175.5	1181.9
22.5°	1173.7	1177.3	1180.0	1184.6	1188.3	1193.7	1195.6	1202.0	1207.4	1212.0	1217.5
25°	1209.3	1214.8	1217.5	1225.7	1228.5	1233.9	1238.5	1244.9	1252.2	1257.7	1265.0
27.5°	1259.5	1267.7	1271.4	1280.5	1286.9	1289.7	1297.0	1306.1	1312.5	1318.9	1326.2
30°	1328.9	1344.5	1347.2	1353.6	1365.5	1367.3	1376.4	1383.7	1393.8	1400.2	1406.6
32.5°	1436.7	1455.9	1457.7	1465.0	1475.1	1478.7	1486.0	1494.2	1509.8	1512.5	1522.6
35°	1602.0	1610.2	1617.5	1620.3	1628.5	1633.1	1638.6	1647.7	1663.2	1661.4	1672.3
37.5°	1800.2	1803.0	1803.9	1794.7	1796.6	1788.3	1798.4	1800.2	1805.7	1810.3	1821.2
40°	2083.4	2055.0	2051.4	2029.5	2007.5	1995.7	1991.1	1972.8	1977.4	1979.2	1988.4
42.5°	2497.1	2442.3	2396.6	2365.6	2311.7	2285.2	2249.6	2221.3	2199.3	2207.6	2211.2
45°	3021.4	2942.8	2869.7	2774.8	2704.4	2654.2	2591.2	2534.5	2509.0	2497.1	2511.7
47.5°	3544.7	3475.3	3389.4	3291.7	3180.3	3097.2	2992.1	2899.9	2836.0	2812.2	2825.0
50°	3996.8	3932.9	3868.0	3810.5	3680.8	3590.4	3447.0	3327.3	3226.9	3175.7	3162.0
52.5°	4372.2	4338.4	4303.7	4255.3	4151.2	4060.8	3946.6	3828.8	3695.4	3591.3	3555.7
55°	4707.4	4727.5	4710.1	4711.1	4670.0	4612.4	4515.6	4427.9	4334.8	4216.9	4167.6
57.5°	5196.1	5314.8	5338.5	5397.9	5427.1	5458.2	5485.6	5433.5	5409.8	5322.1	5323.0
60°	5966.0	6139.5	6290.2	6427.2	6539.6	6649.2	6764.3	6815.4	6872.0	6898.5	6989.0
62.5°	6785.3	6950.6	7175.3	7358.9	7462.1	7604.6	7729.7	7811.0	7910.5	8016.5	8154.4
65°	6988.0	7187.2	7328.7	7451.1	7553.4	7629.2	7697.7	7794.5	7877.6	8045.7	8208.3
67.5°	6468.3	6627.3	6757.0	6877.5	6957.0	7020.9	7082.1	7146.1	7288.5	7441.1	7604.6
70°	5552.3	5744.1	5958.7	6114.9	6154.2	6209.0	6267.4	6350.5	6421.8	6581.6	6705.8
72.5°	4460.8	4736.6	4918.4	5134.9	5181.4	5264.6	5297.4	5362.3	5375.1	5461.8	5494.7
75°	3109.0	3425.1	3607.7	3766.7	3797.7	3752.0	3770.3	3541.1	3482.6	3435.1	3396.7
77.5°	2052.3	2137.2	2166.5	2140.9	2018.5	1922.6	1820.3	1719.8	1730.8	1649.5	1507.0
80°	1824.9	1844.1	1817.6	1792.0	1721.7	1621.2	1528.9	1434.9	1388.3	1339.0	1265.9
82.5°	1775.6	1849.5	1857.8	1826.7	1771.0	1661.4	1550.0	1410.2	1291.5	1181.9	1070.4
85°	593.7	722.5	780.0	833.9	850.3	869.5	803.7	714.2	606.5	534.3	418.3
87.5°	75.8	94.1	108.7	93.2	108.7	127.9	92.2	103.2	104.1	64.8	48.4
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):**

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3
2.5°	875.9	875.0	875.0	875.0	874.1	875.0	875.0	875.0	875.0	875.0	874.1
5°	896.0	896.0	898.7	899.7	897.8	896.9	897.8	898.7	898.7	897.8	898.7
7.5°	933.4	934.4	936.2	938.9	937.1	938.0	938.9	938.0	940.8	941.7	940.8
10°	980.9	982.8	987.3	988.2	987.3	991.0	991.9	990.1	991.9	991.9	995.6
12.5°	1035.7	1037.6	1043.0	1044.9	1046.7	1047.6	1050.4	1051.3	1054.0	1055.8	1058.6
15°	1095.1	1096.9	1100.6	1107.0	1108.8	1110.6	1112.5	1117.9	1118.9	1122.5	1125.2
17.5°	1145.3	1148.1	1153.6	1158.1	1160.9	1165.4	1167.3	1173.7	1175.5	1181.0	1185.5
20°	1185.5	1190.1	1194.7	1200.1	1204.7	1210.2	1212.0	1218.4	1222.1	1224.8	1230.3
22.5°	1222.1	1227.5	1233.9	1240.3	1244.0	1251.3	1254.0	1256.8	1265.0	1268.6	1274.1
25°	1269.6	1275.0	1282.3	1290.6	1294.2	1303.4	1306.1	1310.7	1319.8	1323.4	1331.7
27.5°	1334.4	1341.7	1347.2	1355.4	1360.0	1366.4	1372.8	1378.2	1386.5	1391.9	1401.1
30°	1415.7	1421.2	1430.3	1436.7	1444.0	1453.1	1460.4	1465.9	1470.5	1478.7	1488.8
32.5°	1535.3	1536.3	1539.0	1554.5	1561.8	1569.1	1579.2	1583.7	1591.1	1599.3	1610.2
35°	1684.2	1692.4	1698.8	1706.1	1714.4	1722.6	1726.2	1739.9	1746.3	1757.3	1768.2
37.5°	1832.2	1833.1	1847.7	1852.3	1859.6	1867.8	1880.6	1894.3	1910.7	1921.7	1939.0
40°	1991.1	1998.4	2016.7	2025.8	2034.9	2055.0	2065.1	2087.0	2114.4	2129.9	2159.2
42.5°	2221.3	2232.2	2265.1	2279.7	2301.6	2334.5	2355.5	2385.7	2396.6	2434.1	2447.8
45°	2522.7	2556.5	2604.0	2635.0	2674.3	2709.9	2728.2	2741.9	2758.3	2787.5	2783.9
47.5°	2848.7	2892.6	2945.6	3009.5	3035.1	3077.1	3100.8	3127.3	3112.7	3105.4	3098.1
50°	3183.0	3234.2	3304.5	3362.0	3401.3	3426.9	3447.0	3443.3	3412.3	3395.8	3350.2
52.5°	3554.8	3584.9	3651.6	3700.9	3724.6	3730.1	3725.6	3698.2	3668.9	3616.9	3563.0
55°	4124.7	4111.0	4137.5	4160.3	4153.0	4178.6	4112.8	4087.2	4015.1	3947.5	3875.3
57.5°	5282.8	5301.1	5153.1	5086.4	5074.6	5098.3	4982.3	4967.7	4793.3	4771.3	4649.9
60°	6976.2	7065.7	6949.7	6884.8	6709.5	6651.9	6522.2	6468.3	6301.2	6166.0	5995.2
62.5°	8249.4	8330.7	8379.1	8286.8	8184.5	8033.8	7837.5	7620.1	7442.9	7235.6	7054.7
65°	8364.5	8528.9	8640.3	8683.2	8611.1	8445.8	8203.7	7929.7	7658.4	7398.1	7169.8
67.5°	7826.5	7973.5	8146.2	8300.5	8309.7	8201.9	7995.5	7716.9	7403.6	7082.1	6814.5
70°	6902.2	7086.7	7237.4	7400.0	7513.2	7451.1	7347.9	7092.2	6767.0	6516.8	6209.0
72.5°	5613.5	5691.1	5727.6	5887.5	5889.3	5776.0	5703.0	5561.4	5299.3	5122.1	4887.3
75°	3278.0	3107.2	2925.5	2767.5	2638.7	2584.8	2345.5	2305.3	2144.5	2045.0	1898.9
77.5°	1351.8	1199.2	1002.9	839.4	677.7	604.6	498.7	452.1	391.8	365.3	348.0
80°	1159.0	1014.7	866.8	725.2	599.2	473.1	368.1	285.9	224.7	190.9	177.2
82.5°	946.2	859.5	756.3	679.5	580.9	486.8	411.0	318.8	238.4	175.4	134.3
85°	341.6	280.4	225.6	207.3	165.3	136.1	114.2	97.7	80.4	63.9	56.6
87.5°	38.4	36.5	21.0	20.1	22.8	16.4	19.2	17.4	14.6	12.8	13.7
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):**

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3
2.5°	874.1	874.1	875.0	875.0	875.9	876.8	878.6	877.7	877.7	878.6	878.6
5°	898.7	901.5	900.6	900.6	900.6	901.5	902.4	898.7	895.1	891.4	889.6
7.5°	941.7	943.5	945.3	943.5	945.3	944.4	942.6	932.5	920.7	906.0	896.0
10°	997.4	997.4	999.2	998.3	1001.9	999.2	993.7	970.9	945.3	914.3	891.4
12.5°	1057.7	1064.1	1061.3	1062.2	1069.5	1062.2	1049.4	1015.6	970.0	919.7	879.6
15°	1128.9	1131.6	1133.5	1130.7	1135.3	1128.9	1106.1	1052.2	985.5	915.2	855.8
17.5°	1187.4	1188.3	1189.2	1191.0	1197.4	1190.1	1150.8	1077.8	989.2	894.2	815.6
20°	1233.0	1237.6	1241.2	1241.2	1250.4	1239.4	1187.4	1090.5	977.3	859.5	764.5
22.5°	1280.5	1284.2	1288.7	1289.7	1301.5	1290.6	1217.5	1087.8	946.2	810.1	705.1
25°	1339.0	1342.6	1346.3	1350.8	1367.3	1351.8	1247.6	1076.8	903.3	751.7	641.2
27.5°	1406.6	1414.8	1417.5	1424.8	1444.0	1420.3	1273.2	1060.4	855.8	684.1	573.6
30°	1497.0	1507.0	1510.7	1520.7	1547.2	1495.2	1287.8	1032.1	795.5	615.6	501.4
32.5°	1618.5	1632.2	1643.1	1654.1	1684.2	1570.0	1289.7	991.0	725.2	538.9	432.0
35°	1777.4	1798.4	1806.6	1813.9	1842.2	1651.3	1281.4	929.8	639.3	460.3	377.2
37.5°	1955.5	1976.5	1982.0	1985.6	1991.1	1720.8	1261.3	836.6	542.5	391.8	333.4
40°	2174.7	2193.0	2200.3	2194.8	2165.6	1774.6	1216.6	727.9	448.5	345.2	306.0
42.5°	2442.3	2469.7	2472.4	2447.8	2351.0	1804.8	1127.1	600.1	374.5	311.5	285.0
45°	2773.8	2772.0	2756.5	2739.1	2552.8	1792.9	1001.9	488.6	327.9	285.0	265.8
47.5°	3071.6	3040.5	3016.8	2965.6	2730.9	1723.5	840.3	404.6	299.6	264.9	249.3
50°	3315.5	3258.8	3208.6	3152.9	2863.4	1600.2	679.5	343.4	273.1	247.5	233.8
52.5°	3508.2	3439.7	3381.2	3326.4	2991.2	1463.2	557.1	298.7	247.5	230.2	216.5
55°	3809.6	3741.1	3647.9	3587.6	3186.7	1337.1	477.7	263.0	222.9	211.9	198.2
57.5°	4572.2	4512.0	4400.5	4244.3	3689.0	1289.7	432.9	235.6	202.8	196.4	185.4
60°	5903.9	5806.2	5660.9	5502.0	4710.1	1321.6	397.3	216.5	189.1	183.6	175.4
62.5°	6908.6	6736.9	6572.5	6425.4	5526.7	1320.7	350.7	201.9	179.0	176.3	168.1
65°	6949.7	6775.2	6609.9	6455.6	5544.9	1175.5	295.9	189.1	177.2	176.3	162.6
67.5°	6580.7	6391.6	6231.8	6037.2	5133.0	918.8	237.5	180.8	184.5	182.7	160.7
70°	5977.9	5731.3	5599.8	5407.9	4517.4	643.0	195.5	183.6	200.0	194.5	163.5
72.5°	4691.9	4505.6	4305.5	4172.2	3536.5	406.4	164.4	185.4	206.4	197.3	170.8
75°	1746.3	1796.6	1714.4	1685.1	1796.6	238.4	146.1	172.6	184.5	170.8	155.3
77.5°	352.6	337.0	319.7	316.0	408.3	147.0	134.3	149.8	141.6	125.1	126.0
80°	169.0	164.4	158.9	158.0	151.6	122.4	124.2	127.9	106.9	96.8	103.2
82.5°	112.3	105.9	104.1	100.5	102.3	109.6	117.8	109.6	82.2	76.7	93.2
85°	52.1	50.2	49.3	49.3	54.8	98.6	97.7	80.4	56.6	54.8	93.2
87.5°	12.8	12.8	13.7	12.8	14.6	29.2	25.6	24.7	21.0	23.7	43.8
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):**

	165°	175°	180°
0°	871.3	871.3	871.3
2.5°	877.7	878.6	877.7
5°	885.9	885.9	885.9
7.5°	885.9	883.2	882.3
10°	873.2	864.9	864.9
12.5°	851.2	837.5	835.7
15°	810.1	791.9	789.1
17.5°	758.1	733.4	728.9
20°	699.6	668.6	663.1
22.5°	635.7	600.1	597.3
25°	572.7	536.1	528.8
27.5°	502.3	466.7	463.1
30°	432.0	401.0	399.1
32.5°	372.6	353.5	349.8
35°	330.6	319.7	315.1
37.5°	303.2	295.0	294.1
40°	282.2	274.9	274.0
42.5°	264.9	258.5	257.6
45°	247.5	242.0	240.2
47.5°	230.2	224.7	223.8
50°	214.6	207.3	206.4
52.5°	200.0	192.7	190.9
55°	186.3	179.0	179.0
57.5°	174.4	167.1	166.2
60°	163.5	156.2	155.3
62.5°	155.3	146.1	145.2
65°	148.9	139.7	137.9
67.5°	145.2	134.3	131.5
70°	151.6	131.5	127.0
72.5°	152.5	128.8	122.4
75°	147.0	121.5	116.9
77.5°	128.8	108.7	104.1
80°	111.4	84.0	77.6
82.5°	105.9	68.5	59.4
85°	82.2	44.8	42.0
87.5°	46.6	24.7	20.1
90°	0.0	0.0	0.0

(END OF REPORT)