

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: P152799

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P152799  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33681)  
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-SLL-7030  
Description: VISION WALL MEDIUM LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT  
Light Source: (84) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10165.4 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - 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

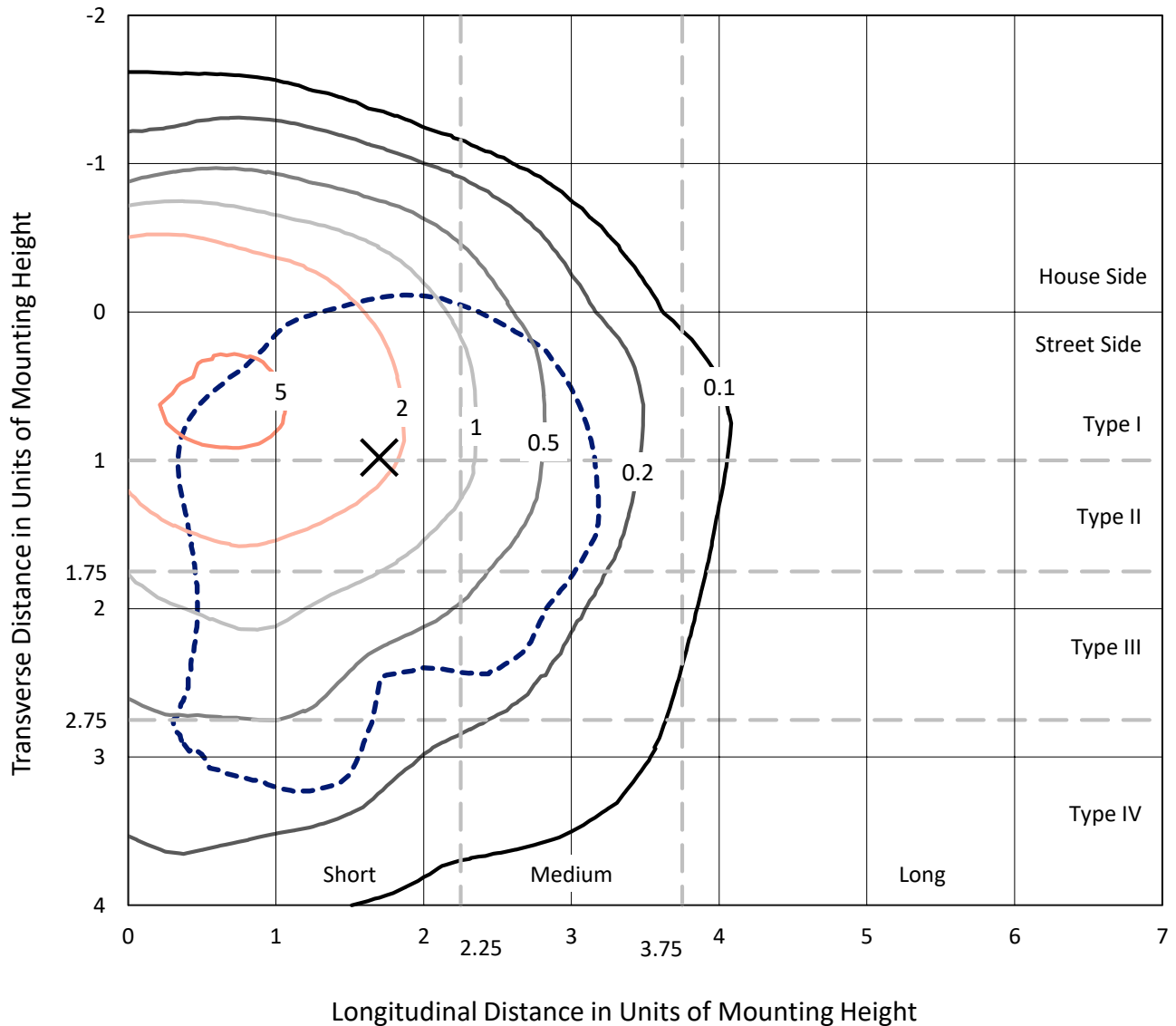


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### Iso-Footcandle Lines of Horizontal Illumination

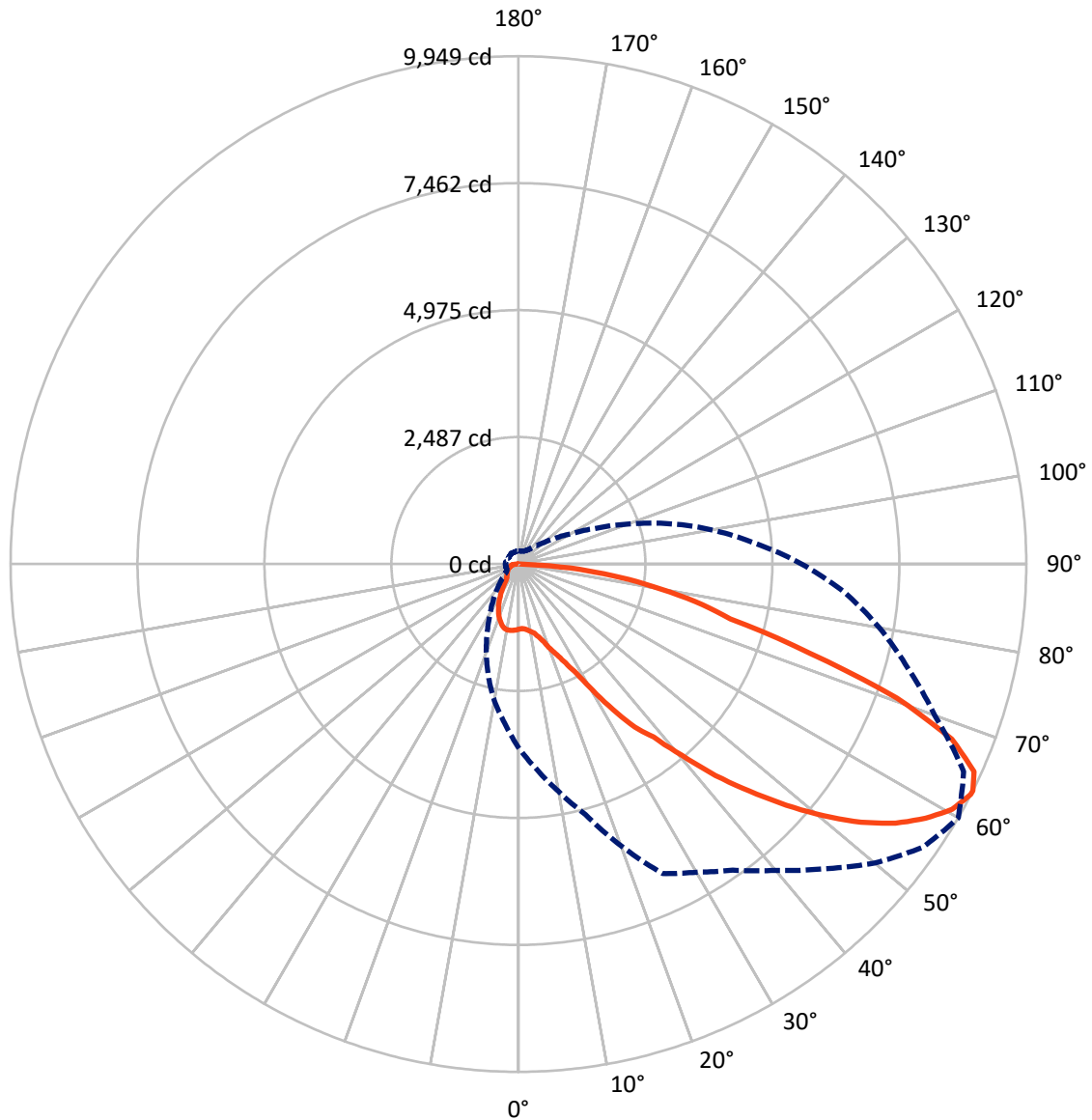
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2204.3   | 0.0    | 2204.3  |
|                    | % Fixture | 21.7     | 0.0    | 21.7    |
| <b>Street Side</b> | Lumens    | 7961.1   | 0.0    | 7961.1  |
|                    | % Fixture | 78.3     | 0.0    | 78.3    |
| <b>Total</b>       | Lumens    | 10165.4  | 0.0    | 10165.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 124.4   | 1.2       |
| 10°-20°   | 387.3   | 3.8       |
| 20°-30°   | 688.1   | 6.8       |
| 30°-40°   | 1083.5  | 10.7      |
| 40°-50°   | 1594.6  | 15.7      |
| 50°-60°   | 2118.1  | 20.8      |
| 60°-70°   | 2333.0  | 23.0      |
| 70°-80°   | 1463.7  | 14.4      |
| 80°-90°   | 372.8   | 3.7       |
| 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°    | 10165.4 | 100.0     |
| 0°-180°   | 10165.4 | 100.0     |



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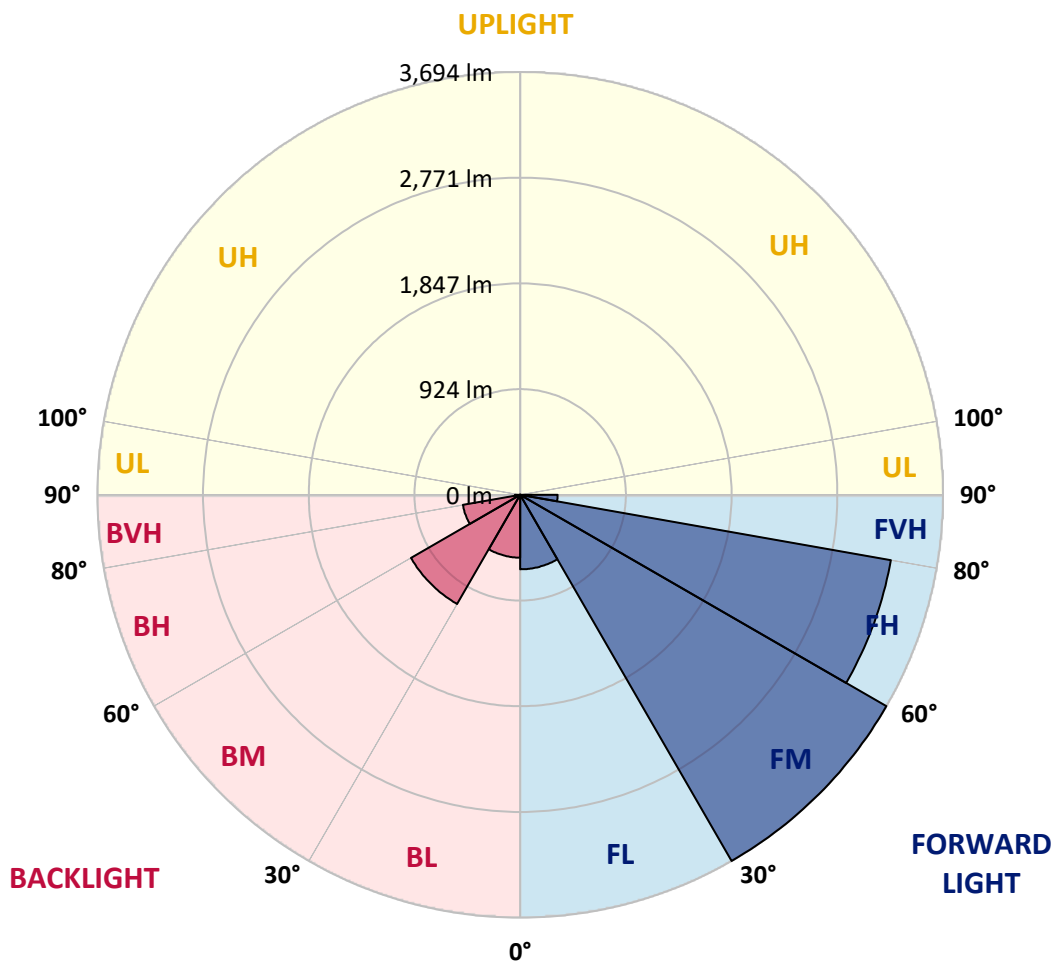
CATALOG NUMBER: VWM-E04-LED-E1-SLL-7030

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 650.9  | 6.4       |                         |      |         |
| FM (30°-60°)   | 3694.4 | 36.3      |                         |      |         |
| FH (60°-80°)   | 3288.7 | 32.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 327.2  | 3.2       |                         |      | G3/500  |
| BL (0°-30°)    | 548.8  | 5.4       | B2/1000                 |      |         |
| BM (30°-60°)   | 1101.8 | 10.8      | B2/2500                 |      |         |
| BH (60°-80°)   | 508.1  | 5.0       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 45.7   | 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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 |
| 2.5°  | 1260.4 | 1262.9 | 1262.9 | 1261.6 | 1261.6 | 1264.1 | 1262.9 | 1261.6 | 1258.0 | 1262.9 | 1262.9 |
| 5°    | 1250.7 | 1253.1 | 1253.1 | 1255.6 | 1258.0 | 1260.4 | 1260.4 | 1262.9 | 1261.6 | 1266.5 | 1270.2 |
| 7.5°  | 1262.9 | 1265.3 | 1270.2 | 1276.3 | 1279.9 | 1288.4 | 1288.4 | 1294.5 | 1297.0 | 1300.6 | 1299.4 |
| 10°   | 1278.7 | 1284.8 | 1295.7 | 1305.5 | 1312.8 | 1322.5 | 1329.8 | 1338.4 | 1338.4 | 1342.0 | 1344.5 |
| 12.5° | 1306.7 | 1312.8 | 1325.0 | 1337.1 | 1348.1 | 1360.3 | 1371.2 | 1379.8 | 1388.3 | 1390.7 | 1395.6 |
| 15°   | 1353.0 | 1360.3 | 1378.6 | 1395.6 | 1409.0 | 1424.8 | 1439.4 | 1456.5 | 1472.3 | 1476.0 | 1478.4 |
| 17.5° | 1422.4 | 1437.0 | 1450.4 | 1480.8 | 1500.3 | 1521.0 | 1544.2 | 1568.5 | 1573.4 | 1599.0 | 1605.1 |
| 20°   | 1521.0 | 1539.3 | 1551.5 | 1589.2 | 1622.1 | 1648.9 | 1683.0 | 1711.0 | 1722.0 | 1746.3 | 1770.7 |
| 22.5° | 1691.5 | 1687.9 | 1706.1 | 1743.9 | 1768.2 | 1821.8 | 1851.1 | 1880.3 | 1894.9 | 1931.4 | 1950.9 |
| 25°   | 1920.5 | 1940.0 | 1980.1 | 1983.8 | 2006.9 | 2069.0 | 2106.8 | 2136.0 | 2137.2 | 2148.2 | 2168.9 |
| 27.5° | 2145.8 | 2226.1 | 2289.5 | 2323.6 | 2385.7 | 2442.9 | 2440.5 | 2481.9 | 2417.3 | 2430.7 | 2450.2 |
| 30°   | 2418.6 | 2552.5 | 2671.9 | 2752.2 | 2815.6 | 2882.5 | 2915.4 | 2938.6 | 2910.5 | 2898.4 | 2875.2 |
| 32.5° | 2674.3 | 2861.8 | 3045.7 | 3188.2 | 3306.3 | 3417.1 | 3490.2 | 3523.1 | 3562.1 | 3660.7 | 3696.0 |
| 35°   | 2849.7 | 3115.1 | 3344.1 | 3549.9 | 3747.2 | 3923.8 | 4051.6 | 4124.7 | 4096.7 | 4083.3 | 4076.0 |
| 37.5° | 2954.4 | 3278.3 | 3564.5 | 3855.6 | 4082.1 | 4346.3 | 4544.8 | 4737.2 | 4781.1 | 4704.4 | 4666.6 |
| 40°   | 3020.1 | 3403.8 | 3771.5 | 4114.9 | 4408.4 | 4749.4 | 4995.4 | 5284.0 | 5503.2 | 5532.5 | 5442.4 |
| 42.5° | 3051.8 | 3487.8 | 3916.4 | 4304.9 | 4701.9 | 5119.6 | 5431.4 | 5780.9 | 6108.5 | 6333.8 | 6277.8 |
| 45°   | 3056.7 | 3542.6 | 4022.4 | 4476.6 | 4949.1 | 5444.8 | 5846.7 | 6233.9 | 6672.3 | 7058.4 | 7069.3 |
| 47.5° | 3056.7 | 3584.0 | 4095.5 | 4600.9 | 5170.8 | 5727.3 | 6165.7 | 6623.6 | 7160.7 | 7617.3 | 7757.4 |
| 50°   | 3059.1 | 3612.0 | 4163.7 | 4698.3 | 5340.1 | 5966.0 | 6461.6 | 7002.4 | 7567.4 | 8064.3 | 8334.6 |
| 52.5° | 3070.1 | 3632.7 | 4217.2 | 4767.7 | 5449.7 | 6134.1 | 6691.8 | 7315.3 | 7878.0 | 8388.2 | 8737.7 |
| 55°   | 3094.4 | 3661.9 | 4256.2 | 4810.3 | 5522.7 | 6243.7 | 6858.7 | 7529.7 | 8078.9 | 8596.5 | 9084.8 |
| 57.5° | 3162.6 | 3713.1 | 4303.7 | 4848.1 | 5562.9 | 6315.5 | 6975.6 | 7622.2 | 8155.6 | 8695.1 | 9268.7 |
| 60°   | 3299.0 | 3821.5 | 4385.3 | 4923.6 | 5629.9 | 6448.3 | 7031.6 | 7560.1 | 8099.6 | 8665.9 | 9310.1 |
| 62.5° | 3517.0 | 3990.7 | 4498.6 | 5051.4 | 5821.1 | 6654.1 | 6989.0 | 7375.0 | 7879.2 | 8496.6 | 9162.7 |
| 63°   | 3592.5 | 4027.3 | 4524.1 | 5079.4 | 5873.5 | 6691.8 | 6970.7 | 7320.2 | 7834.1 | 8443.0 | 9110.4 |
| 65°   | 3803.2 | 4189.2 | 4645.9 | 5220.7 | 6089.0 | 6729.6 | 6828.2 | 7035.2 | 7522.4 | 8137.3 | 8801.0 |
| 67.5° | 4196.5 | 4582.6 | 4907.7 | 5459.4 | 6270.5 | 6581.0 | 6386.1 | 6411.7 | 6920.8 | 7557.7 | 8154.4 |
| 70°   | 4445.0 | 4905.3 | 5074.6 | 5489.8 | 6237.6 | 6360.6 | 5813.8 | 5475.2 | 5883.2 | 6609.0 | 7131.4 |
| 72.5° | 4380.4 | 4909.0 | 4890.7 | 5084.3 | 5580.0 | 5694.4 | 5128.2 | 4594.8 | 4837.1 | 5379.0 | 5717.6 |
| 75°   | 3752.0 | 4384.1 | 4250.1 | 4211.2 | 4385.3 | 4460.8 | 4035.8 | 3954.2 | 4259.9 | 4560.7 | 4565.5 |
| 77.5° | 2701.1 | 3396.4 | 3239.3 | 3014.1 | 3001.9 | 3176.0 | 3233.3 | 3767.9 | 4219.7 | 4457.1 | 4352.4 |
| 80°   | 1720.8 | 2474.6 | 2311.4 | 1918.0 | 1911.9 | 2138.5 | 2641.4 | 3368.4 | 3847.0 | 3979.8 | 3707.0 |
| 82.5° | 898.7  | 1619.7 | 1681.8 | 1439.4 | 1647.7 | 2022.8 | 2513.5 | 2714.5 | 2895.9 | 2914.2 | 2592.7 |
| 85°   | 560.2  | 996.2  | 1171.5 | 1209.3 | 1488.2 | 1793.8 | 1790.2 | 1719.5 | 1639.2 | 1402.9 | 1268.9 |
| 87.5° | 63.3   | 125.4  | 190.0  | 180.2  | 242.3  | 339.8  | 423.8  | 248.4  | 174.1  | 63.3   | 87.7   |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 |
| 2.5°  | 1265.3 | 1266.5 | 1267.7 | 1267.7 | 1273.8 | 1272.6 | 1273.8 | 1276.3 | 1279.9 | 1282.3 | 1284.8 |
| 5°    | 1275.0 | 1275.0 | 1279.9 | 1283.6 | 1290.9 | 1295.7 | 1298.2 | 1305.5 | 1314.0 | 1311.6 | 1318.9 |
| 7.5°  | 1306.7 | 1305.5 | 1310.4 | 1312.8 | 1318.9 | 1327.4 | 1326.2 | 1332.3 | 1339.6 | 1342.0 | 1348.1 |
| 10°   | 1349.3 | 1345.7 | 1345.7 | 1343.2 | 1344.5 | 1342.0 | 1342.0 | 1342.0 | 1346.9 | 1345.7 | 1350.5 |
| 12.5° | 1393.2 | 1391.9 | 1389.5 | 1382.2 | 1382.2 | 1372.5 | 1367.6 | 1361.5 | 1360.3 | 1351.8 | 1353.0 |
| 15°   | 1483.3 | 1483.3 | 1478.4 | 1463.8 | 1451.6 | 1443.1 | 1430.9 | 1422.4 | 1410.2 | 1394.4 | 1385.9 |
| 17.5° | 1614.8 | 1597.8 | 1591.7 | 1589.2 | 1569.7 | 1562.4 | 1535.6 | 1507.6 | 1494.2 | 1472.3 | 1460.1 |
| 20°   | 1775.6 | 1771.9 | 1747.5 | 1735.4 | 1711.0 | 1676.9 | 1642.8 | 1606.3 | 1584.4 | 1557.6 | 1543.0 |
| 22.5° | 1957.0 | 1930.2 | 1918.0 | 1899.8 | 1862.0 | 1823.0 | 1771.9 | 1723.2 | 1689.1 | 1670.8 | 1659.9 |
| 25°   | 2168.9 | 2142.1 | 2129.9 | 2105.6 | 2059.3 | 2017.9 | 1954.6 | 1897.3 | 1866.9 | 1836.4 | 1819.4 |
| 27.5° | 2450.2 | 2424.6 | 2410.0 | 2346.7 | 2330.9 | 2262.7 | 2184.7 | 2106.8 | 2066.6 | 2021.5 | 1992.3 |
| 30°   | 2870.4 | 2871.6 | 2796.1 | 2719.3 | 2640.2 | 2522.1 | 2440.5 | 2352.8 | 2287.0 | 2222.5 | 2157.9 |
| 32.5° | 3580.3 | 3398.9 | 3258.8 | 3094.4 | 2922.7 | 2797.3 | 2696.2 | 2591.5 | 2500.1 | 2406.4 | 2299.2 |
| 35°   | 4013.9 | 3926.2 | 3744.7 | 3443.9 | 3271.0 | 3118.8 | 3006.7 | 2880.1 | 2768.1 | 2602.4 | 2439.3 |
| 37.5° | 4503.4 | 4300.1 | 4079.6 | 3912.8 | 3716.7 | 3540.1 | 3352.6 | 3208.9 | 3015.3 | 2792.4 | 2561.0 |
| 40°   | 5218.3 | 4927.2 | 4661.7 | 4437.7 | 4184.4 | 3999.3 | 3789.8 | 3581.6 | 3324.6 | 3001.9 | 2684.0 |
| 42.5° | 5964.8 | 5664.0 | 5313.3 | 5022.2 | 4723.8 | 4507.1 | 4247.7 | 3955.4 | 3577.9 | 3178.5 | 2790.0 |
| 45°   | 6747.8 | 6346.0 | 5925.8 | 5570.2 | 5259.7 | 4990.5 | 4669.0 | 4281.8 | 3821.5 | 3336.8 | 2888.6 |
| 47.5° | 7519.9 | 7058.4 | 6557.9 | 6175.5 | 5771.2 | 5442.4 | 5047.8 | 4558.2 | 4011.4 | 3486.6 | 2987.3 |
| 50°   | 8200.7 | 7756.2 | 7153.4 | 6667.5 | 6258.3 | 5852.7 | 5360.8 | 4771.3 | 4161.2 | 3615.6 | 3076.2 |
| 52.5° | 8787.6 | 8405.3 | 7770.8 | 7157.0 | 6685.7 | 6230.3 | 5612.8 | 4943.1 | 4312.2 | 3735.0 | 3149.2 |
| 55°   | 9218.7 | 8964.2 | 8379.7 | 7618.6 | 7062.0 | 6518.9 | 5826.0 | 5108.7 | 4454.7 | 3830.0 | 3196.7 |
| 57.5° | 9543.9 | 9402.6 | 8900.9 | 8053.3 | 7407.9 | 6799.0 | 6046.4 | 5307.2 | 4596.0 | 3911.6 | 3218.6 |
| 60°   | 9721.7 | 9760.7 | 9295.5 | 8433.3 | 7713.5 | 7032.8 | 6266.8 | 5476.4 | 4700.7 | 3959.1 | 3206.5 |
| 62.5° | 9704.7 | 9943.3 | 9591.4 | 8667.1 | 7891.3 | 7171.6 | 6415.4 | 5555.6 | 4686.1 | 3883.6 | 3095.6 |
| 63°   | 9671.8 | 9949.4 | 9624.3 | 8682.9 | 7902.3 | 7176.5 | 6419.0 | 5544.6 | 4655.7 | 3847.0 | 3051.8 |
| 65°   | 9388.0 | 9809.4 | 9596.3 | 8611.1 | 7804.9 | 7085.2 | 6342.3 | 5386.3 | 4441.3 | 3651.0 | 2826.5 |
| 67.5° | 8628.1 | 9155.4 | 9094.5 | 8103.2 | 7343.3 | 6707.6 | 5950.2 | 4876.1 | 3911.6 | 3168.7 | 2395.4 |
| 70°   | 7372.6 | 7868.2 | 7879.2 | 7047.4 | 6412.9 | 5789.4 | 5159.8 | 3967.6 | 3100.5 | 2456.3 | 1786.5 |
| 72.5° | 5650.6 | 5969.7 | 6080.5 | 5532.5 | 5107.5 | 4669.0 | 4104.0 | 2880.1 | 2210.3 | 1670.8 | 1163.0 |
| 75°   | 4375.6 | 4287.9 | 4286.7 | 4055.3 | 3882.3 | 3668.0 | 3046.9 | 1943.6 | 1451.6 | 1086.3 | 711.2  |
| 77.5° | 3933.5 | 3543.8 | 3166.3 | 2888.6 | 2749.8 | 2677.9 | 1998.4 | 1171.5 | 856.1  | 624.7  | 409.2  |
| 80°   | 3244.2 | 2669.4 | 2156.7 | 1857.1 | 1737.8 | 1820.6 | 1114.3 | 633.3  | 468.9  | 355.6  | 265.5  |
| 82.5° | 2237.1 | 1857.1 | 1411.4 | 1169.1 | 1003.5 | 1049.7 | 569.9  | 323.9  | 216.8  | 198.5  | 164.4  |
| 85°   | 1165.4 | 1021.7 | 862.2  | 740.4  | 654.0  | 574.8  | 295.9  | 154.7  | 90.1   | 79.2   | 71.9   |
| 87.5° | 0.0    | 1.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 |
| 2.5°  | 1288.4 | 1287.2 | 1289.7 | 1290.9 | 1294.5 | 1297.0 | 1298.2 | 1295.7 | 1299.4 | 1303.0 | 1300.6 |
| 5°    | 1322.5 | 1331.1 | 1332.3 | 1335.9 | 1335.9 | 1343.2 | 1343.2 | 1343.2 | 1342.0 | 1343.2 | 1340.8 |
| 7.5°  | 1351.8 | 1362.7 | 1363.9 | 1368.8 | 1370.0 | 1378.6 | 1374.9 | 1377.3 | 1377.3 | 1371.2 | 1368.8 |
| 10°   | 1355.4 | 1366.4 | 1372.5 | 1378.6 | 1387.1 | 1398.0 | 1398.0 | 1404.1 | 1404.1 | 1399.3 | 1398.0 |
| 12.5° | 1356.6 | 1365.2 | 1371.2 | 1379.8 | 1391.9 | 1407.8 | 1416.3 | 1424.8 | 1428.5 | 1427.3 | 1423.6 |
| 15°   | 1382.2 | 1382.2 | 1383.4 | 1390.7 | 1399.3 | 1418.7 | 1430.9 | 1440.7 | 1446.7 | 1444.3 | 1438.2 |
| 17.5° | 1449.2 | 1439.4 | 1432.1 | 1420.0 | 1422.4 | 1432.1 | 1439.4 | 1448.0 | 1449.2 | 1446.7 | 1437.0 |
| 20°   | 1527.1 | 1514.9 | 1496.7 | 1477.2 | 1467.4 | 1460.1 | 1455.3 | 1455.3 | 1451.6 | 1439.4 | 1423.6 |
| 22.5° | 1637.9 | 1622.1 | 1596.5 | 1567.3 | 1547.8 | 1524.7 | 1496.7 | 1469.9 | 1440.7 | 1411.4 | 1377.3 |
| 25°   | 1791.4 | 1769.5 | 1742.7 | 1697.6 | 1656.2 | 1607.5 | 1550.3 | 1490.6 | 1421.2 | 1360.3 | 1310.4 |
| 27.5° | 1946.0 | 1897.3 | 1827.9 | 1765.8 | 1689.1 | 1616.0 | 1534.4 | 1461.4 | 1372.5 | 1299.4 | 1244.6 |
| 30°   | 2073.9 | 1981.4 | 1881.5 | 1782.9 | 1681.8 | 1583.1 | 1485.7 | 1398.0 | 1300.6 | 1226.3 | 1172.7 |
| 32.5° | 2172.6 | 2044.7 | 1905.9 | 1776.8 | 1652.6 | 1532.0 | 1420.0 | 1322.5 | 1223.9 | 1147.2 | 1089.9 |
| 35°   | 2263.9 | 2086.1 | 1909.5 | 1750.0 | 1596.5 | 1471.1 | 1344.5 | 1238.5 | 1133.8 | 1053.4 | 991.3  |
| 37.5° | 2332.1 | 2105.6 | 1887.6 | 1700.0 | 1523.5 | 1383.4 | 1254.3 | 1146.0 | 1038.8 | 951.1  | 880.5  |
| 40°   | 2375.9 | 2093.4 | 1840.1 | 1628.2 | 1437.0 | 1289.7 | 1158.1 | 1046.1 | 942.6  | 846.4  | 761.1  |
| 42.5° | 2411.2 | 2077.6 | 1792.6 | 1562.4 | 1368.8 | 1208.1 | 1072.9 | 952.3  | 847.6  | 742.9  | 649.1  |
| 45°   | 2463.6 | 2089.7 | 1771.9 | 1516.2 | 1307.9 | 1138.6 | 990.1  | 864.6  | 755.0  | 652.7  | 562.6  |
| 47.5° | 2514.8 | 2095.8 | 1741.5 | 1458.9 | 1231.2 | 1066.8 | 915.8  | 794.0  | 682.0  | 588.2  | 505.4  |
| 50°   | 2561.0 | 2092.2 | 1694.0 | 1385.9 | 1156.9 | 994.9  | 848.8  | 727.0  | 616.2  | 529.7  | 451.8  |
| 52.5° | 2583.0 | 2071.5 | 1635.5 | 1315.2 | 1097.2 | 931.6  | 783.0  | 664.9  | 555.3  | 473.7  | 401.9  |
| 55°   | 2580.5 | 2017.9 | 1558.8 | 1248.2 | 1031.5 | 864.6  | 718.5  | 601.6  | 503.0  | 427.4  | 365.3  |
| 57.5° | 2544.0 | 1935.1 | 1477.2 | 1174.0 | 945.0  | 781.8  | 643.0  | 529.7  | 446.9  | 383.6  | 331.2  |
| 60°   | 2467.3 | 1829.1 | 1370.0 | 1065.6 | 836.6  | 679.5  | 549.2  | 451.8  | 384.8  | 336.1  | 302.0  |
| 62.5° | 2323.6 | 1676.9 | 1236.1 | 914.6  | 690.5  | 546.8  | 433.5  | 370.2  | 320.3  | 291.1  | 275.2  |
| 63°   | 2280.9 | 1635.5 | 1178.8 | 878.0  | 656.4  | 516.3  | 409.2  | 343.4  | 306.9  | 281.3  | 266.7  |
| 65°   | 2069.0 | 1432.1 | 986.4  | 708.8  | 510.3  | 398.2  | 328.8  | 278.9  | 257.0  | 246.0  | 244.8  |
| 67.5° | 1675.7 | 1126.5 | 697.8  | 485.9  | 347.1  | 287.4  | 252.1  | 231.4  | 221.6  | 219.2  | 221.6  |
| 70°   | 1176.4 | 711.2  | 443.3  | 322.7  | 257.0  | 231.4  | 215.6  | 207.0  | 200.9  | 202.2  | 204.6  |
| 72.5° | 750.2  | 426.2  | 304.5  | 244.8  | 216.8  | 203.4  | 196.1  | 193.6  | 192.4  | 191.2  | 191.2  |
| 75°   | 427.4  | 283.7  | 233.8  | 211.9  | 197.3  | 186.3  | 180.2  | 177.8  | 179.0  | 180.2  | 177.8  |
| 77.5° | 282.5  | 233.8  | 208.2  | 193.6  | 180.2  | 168.1  | 164.4  | 163.2  | 165.6  | 168.1  | 168.1  |
| 80°   | 222.9  | 208.2  | 193.6  | 179.0  | 157.1  | 148.6  | 151.0  | 152.2  | 151.0  | 152.2  | 148.6  |
| 82.5° | 157.1  | 154.7  | 158.3  | 152.2  | 130.3  | 123.0  | 120.6  | 121.8  | 119.3  | 119.3  | 116.9  |
| 85°   | 73.1   | 73.1   | 76.7   | 76.7   | 74.3   | 75.5   | 81.6   | 88.9   | 92.6   | 88.9   | 84.0   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 11.0   | 21.9   | 31.7   | 34.1   | 42.6   | 41.4   |
| 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):**

|       | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   | 215°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 |
| 2.5°  | 1297.0 | 1299.4 | 1298.2 | 1297.0 | 1299.4 | 1297.0 | 1298.2 | 1297.0 | 1297.0 | 1295.7 | 1295.7 |
| 5°    | 1338.4 | 1342.0 | 1334.7 | 1333.5 | 1331.1 | 1325.0 | 1325.0 | 1322.5 | 1322.5 | 1317.7 | 1314.0 |
| 7.5°  | 1365.2 | 1366.4 | 1360.3 | 1359.1 | 1353.0 | 1346.9 | 1342.0 | 1337.1 | 1335.9 | 1332.3 | 1325.0 |
| 10°   | 1390.7 | 1388.3 | 1383.4 | 1377.3 | 1371.2 | 1362.7 | 1356.6 | 1350.5 | 1349.3 | 1343.2 | 1334.7 |
| 12.5° | 1412.6 | 1411.4 | 1401.7 | 1395.6 | 1385.9 | 1377.3 | 1370.0 | 1362.7 | 1359.1 | 1351.8 | 1339.6 |
| 15°   | 1427.3 | 1420.0 | 1407.8 | 1396.8 | 1385.9 | 1376.1 | 1367.6 | 1359.1 | 1355.4 | 1346.9 | 1334.7 |
| 17.5° | 1421.2 | 1407.8 | 1391.9 | 1378.6 | 1363.9 | 1351.8 | 1344.5 | 1335.9 | 1329.8 | 1325.0 | 1307.9 |
| 20°   | 1399.3 | 1379.8 | 1355.4 | 1339.6 | 1320.1 | 1304.3 | 1299.4 | 1290.9 | 1286.0 | 1267.7 | 1245.8 |
| 22.5° | 1342.0 | 1314.0 | 1283.6 | 1260.4 | 1238.5 | 1222.7 | 1210.5 | 1202.0 | 1189.8 | 1178.8 | 1144.7 |
| 25°   | 1270.2 | 1238.5 | 1206.8 | 1178.8 | 1149.6 | 1125.2 | 1103.3 | 1082.6 | 1076.5 | 1053.4 | 1020.5 |
| 27.5° | 1200.8 | 1165.4 | 1133.8 | 1100.9 | 1063.1 | 1032.7 | 994.9  | 965.7  | 946.2  | 921.9  | 891.4  |
| 30°   | 1126.5 | 1091.1 | 1048.5 | 1004.7 | 960.8  | 928.0  | 885.3  | 850.0  | 825.7  | 800.1  | 772.1  |
| 32.5° | 1032.7 | 990.1  | 938.9  | 890.2  | 850.0  | 811.1  | 768.4  | 734.3  | 710.0  | 686.8  | 660.0  |
| 35°   | 925.5  | 869.5  | 814.7  | 761.1  | 718.5  | 685.6  | 647.9  | 622.3  | 605.2  | 584.5  | 556.5  |
| 37.5° | 802.5  | 739.2  | 680.8  | 639.3  | 601.6  | 569.9  | 543.1  | 527.3  | 509.0  | 498.1  | 481.0  |
| 40°   | 678.3  | 616.2  | 559.0  | 521.2  | 489.6  | 471.3  | 456.7  | 453.0  | 440.8  | 426.2  | 415.3  |
| 42.5° | 568.7  | 509.0  | 453.0  | 422.6  | 401.9  | 397.0  | 389.7  | 389.7  | 383.6  | 372.6  | 365.3  |
| 45°   | 494.4  | 432.3  | 383.6  | 361.7  | 350.7  | 349.5  | 345.9  | 345.9  | 344.6  | 339.8  | 331.2  |
| 47.5° | 440.8  | 384.8  | 347.1  | 333.7  | 331.2  | 328.8  | 325.2  | 323.9  | 322.7  | 319.1  | 314.2  |
| 50°   | 392.1  | 344.6  | 320.3  | 314.2  | 315.4  | 311.8  | 308.1  | 304.5  | 303.2  | 299.6  | 294.7  |
| 52.5° | 347.1  | 313.0  | 297.1  | 293.5  | 293.5  | 293.5  | 291.1  | 291.1  | 288.6  | 287.4  | 282.5  |
| 55°   | 321.5  | 295.9  | 287.4  | 286.2  | 285.0  | 283.7  | 281.3  | 281.3  | 278.9  | 277.7  | 271.6  |
| 57.5° | 299.6  | 283.7  | 278.9  | 276.4  | 275.2  | 272.8  | 271.6  | 271.6  | 271.6  | 271.6  | 264.3  |
| 60°   | 282.5  | 275.2  | 274.0  | 271.6  | 270.4  | 265.5  | 263.0  | 261.8  | 263.0  | 264.3  | 257.0  |
| 62.5° | 264.3  | 263.0  | 261.8  | 259.4  | 258.2  | 253.3  | 249.6  | 247.2  | 249.6  | 252.1  | 250.9  |
| 63°   | 259.4  | 258.2  | 258.2  | 257.0  | 255.7  | 249.6  | 246.0  | 243.6  | 246.0  | 248.4  | 248.4  |
| 65°   | 242.3  | 243.6  | 243.6  | 242.3  | 241.1  | 237.5  | 232.6  | 230.2  | 231.4  | 235.0  | 236.3  |
| 67.5° | 224.1  | 225.3  | 224.1  | 225.3  | 224.1  | 221.6  | 218.0  | 215.6  | 214.3  | 215.6  | 216.8  |
| 70°   | 207.0  | 209.5  | 208.2  | 207.0  | 205.8  | 205.8  | 203.4  | 199.7  | 198.5  | 197.3  | 197.3  |
| 72.5° | 192.4  | 192.4  | 190.0  | 190.0  | 188.8  | 188.8  | 186.3  | 182.7  | 181.5  | 181.5  | 179.0  |
| 75°   | 176.6  | 176.6  | 172.9  | 172.9  | 170.5  | 171.7  | 169.3  | 165.6  | 164.4  | 164.4  | 163.2  |
| 77.5° | 166.8  | 163.2  | 157.1  | 155.9  | 154.7  | 154.7  | 153.4  | 149.8  | 148.6  | 148.6  | 147.4  |
| 80°   | 147.4  | 140.0  | 134.0  | 132.7  | 134.0  | 136.4  | 136.4  | 134.0  | 134.0  | 134.0  | 134.0  |
| 82.5° | 114.5  | 112.0  | 108.4  | 105.9  | 105.9  | 109.6  | 114.5  | 116.9  | 119.3  | 121.8  | 121.8  |
| 85°   | 84.0   | 85.2   | 84.0   | 80.4   | 79.2   | 82.8   | 87.7   | 92.6   | 93.8   | 98.6   | 97.4   |
| 87.5° | 45.1   | 46.3   | 42.6   | 41.4   | 45.1   | 47.5   | 52.4   | 53.6   | 56.0   | 57.2   | 58.5   |
| 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):**

|       | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   | 255°   | 260°   | 265°   | 270°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 |
| 2.5°  | 1294.5 | 1293.3 | 1294.5 | 1292.1 | 1292.1 | 1289.7 | 1287.2 | 1286.0 | 1283.6 | 1282.3 | 1279.9 |
| 5°    | 1316.4 | 1312.8 | 1309.1 | 1307.9 | 1303.0 | 1298.2 | 1294.5 | 1288.4 | 1283.6 | 1275.0 | 1272.6 |
| 7.5°  | 1331.1 | 1322.5 | 1317.7 | 1316.4 | 1309.1 | 1305.5 | 1297.0 | 1289.7 | 1282.3 | 1271.4 | 1267.7 |
| 10°   | 1337.1 | 1328.6 | 1320.1 | 1316.4 | 1307.9 | 1301.8 | 1293.3 | 1282.3 | 1276.3 | 1265.3 | 1262.9 |
| 12.5° | 1344.5 | 1328.6 | 1315.2 | 1305.5 | 1293.3 | 1279.9 | 1271.4 | 1265.3 | 1256.8 | 1250.7 | 1248.2 |
| 15°   | 1331.1 | 1310.4 | 1289.7 | 1271.4 | 1251.9 | 1237.3 | 1228.8 | 1219.0 | 1209.3 | 1205.6 | 1205.6 |
| 17.5° | 1294.5 | 1267.7 | 1232.4 | 1209.3 | 1188.6 | 1172.7 | 1161.8 | 1152.0 | 1150.8 | 1146.0 | 1148.4 |
| 20°   | 1219.0 | 1183.7 | 1149.6 | 1132.6 | 1120.4 | 1110.6 | 1099.7 | 1094.8 | 1091.1 | 1083.8 | 1081.4 |
| 22.5° | 1114.3 | 1085.1 | 1060.7 | 1048.5 | 1038.8 | 1026.6 | 1016.9 | 1002.2 | 998.6  | 991.3  | 987.6  |
| 25°   | 998.6  | 975.5  | 954.8  | 946.2  | 940.1  | 923.1  | 917.0  | 897.5  | 884.1  | 875.6  | 880.5  |
| 27.5° | 882.9  | 865.9  | 846.4  | 835.4  | 831.8  | 815.9  | 809.8  | 787.9  | 777.0  | 777.0  | 764.8  |
| 30°   | 763.6  | 747.7  | 735.6  | 723.4  | 720.9  | 701.5  | 685.6  | 677.1  | 664.9  | 660.0  | 651.5  |
| 32.5° | 651.5  | 635.7  | 625.9  | 619.9  | 610.1  | 594.3  | 578.5  | 563.8  | 544.4  | 537.0  | 533.4  |
| 35°   | 548.0  | 535.8  | 523.7  | 518.8  | 505.4  | 488.3  | 468.9  | 456.7  | 433.5  | 425.0  | 421.4  |
| 37.5° | 468.9  | 454.2  | 445.7  | 432.3  | 418.9  | 400.7  | 386.0  | 375.1  | 366.6  | 362.9  | 362.9  |
| 40°   | 405.5  | 394.6  | 384.8  | 373.9  | 362.9  | 353.2  | 345.9  | 343.4  | 342.2  | 342.2  | 344.6  |
| 42.5° | 358.0  | 348.3  | 343.4  | 337.3  | 333.7  | 333.7  | 332.5  | 333.7  | 334.9  | 336.1  | 339.8  |
| 45°   | 326.4  | 320.3  | 317.8  | 316.6  | 319.1  | 321.5  | 322.7  | 325.2  | 330.0  | 332.5  | 333.7  |
| 47.5° | 309.3  | 304.5  | 303.2  | 304.5  | 308.1  | 313.0  | 317.8  | 321.5  | 325.2  | 326.4  | 327.6  |
| 50°   | 292.3  | 286.2  | 283.7  | 286.2  | 291.1  | 298.4  | 302.0  | 308.1  | 310.5  | 313.0  | 310.5  |
| 52.5° | 277.7  | 272.8  | 271.6  | 271.6  | 276.4  | 281.3  | 286.2  | 291.1  | 292.3  | 292.3  | 291.1  |
| 55°   | 265.5  | 261.8  | 258.2  | 260.6  | 264.3  | 269.1  | 276.4  | 280.1  | 282.5  | 283.7  | 283.7  |
| 57.5° | 255.7  | 252.1  | 248.4  | 250.9  | 254.5  | 259.4  | 266.7  | 270.4  | 272.8  | 276.4  | 277.7  |
| 60°   | 248.4  | 243.6  | 239.9  | 243.6  | 247.2  | 254.5  | 260.6  | 264.3  | 270.4  | 271.6  | 271.6  |
| 62.5° | 241.1  | 236.3  | 230.2  | 233.8  | 233.8  | 237.5  | 243.6  | 248.4  | 254.5  | 257.0  | 257.0  |
| 63°   | 239.9  | 235.0  | 228.9  | 231.4  | 231.4  | 233.8  | 238.7  | 243.6  | 250.9  | 253.3  | 252.1  |
| 65°   | 230.2  | 228.9  | 222.9  | 222.9  | 220.4  | 222.9  | 226.5  | 231.4  | 235.0  | 238.7  | 238.7  |
| 67.5° | 214.3  | 213.1  | 211.9  | 211.9  | 211.9  | 214.3  | 216.8  | 220.4  | 224.1  | 226.5  | 225.3  |
| 70°   | 196.1  | 196.1  | 196.1  | 197.3  | 197.3  | 199.7  | 200.9  | 199.7  | 203.4  | 205.8  | 204.6  |
| 72.5° | 180.2  | 179.0  | 177.8  | 180.2  | 179.0  | 179.0  | 181.5  | 180.2  | 183.9  | 183.9  | 185.1  |
| 75°   | 163.2  | 162.0  | 162.0  | 163.2  | 160.7  | 158.3  | 159.5  | 159.5  | 160.7  | 160.7  | 163.2  |
| 77.5° | 148.6  | 148.6  | 148.6  | 147.4  | 144.9  | 143.7  | 142.5  | 142.5  | 142.5  | 142.5  | 143.7  |
| 80°   | 135.2  | 135.2  | 135.2  | 134.0  | 131.5  | 129.1  | 126.7  | 125.4  | 124.2  | 118.1  | 118.1  |
| 82.5° | 121.8  | 121.8  | 121.8  | 121.8  | 120.6  | 118.1  | 114.5  | 104.7  | 99.9   | 95.0   | 96.2   |
| 85°   | 96.2   | 98.6   | 101.1  | 104.7  | 103.5  | 103.5  | 96.2   | 84.0   | 76.7   | 71.9   | 73.1   |
| 87.5° | 62.1   | 54.8   | 54.8   | 53.6   | 51.1   | 48.7   | 48.7   | 41.4   | 34.1   | 30.4   | 31.7   |
| 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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 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

|       | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   |       |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0°    | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 0°    |
| 2.5°  | 1279.9 | 1277.5 | 1275.0 | 1275.0 | 1271.4 | 1271.4 | 1268.9 | 1273.8 | 1268.9 | 1265.3 | 1265.3 | 2.5°  |
| 5°    | 1270.2 | 1267.7 | 1260.4 | 1259.2 | 1254.3 | 1254.3 | 1254.3 | 1251.9 | 1251.9 | 1249.5 | 1248.2 | 5°    |
| 7.5°  | 1264.1 | 1258.0 | 1251.9 | 1248.2 | 1248.2 | 1245.8 | 1250.7 | 1248.2 | 1249.5 | 1249.5 | 1250.7 | 7.5°  |
| 10°   | 1259.2 | 1254.3 | 1251.9 | 1250.7 | 1250.7 | 1254.3 | 1258.0 | 1259.2 | 1258.0 | 1259.2 | 1259.2 | 10°   |
| 12.5° | 1247.0 | 1249.5 | 1250.7 | 1255.6 | 1261.6 | 1268.9 | 1277.5 | 1278.7 | 1281.1 | 1281.1 | 1283.6 | 12.5° |
| 15°   | 1208.1 | 1214.1 | 1221.5 | 1233.6 | 1249.5 | 1265.3 | 1281.1 | 1294.5 | 1306.7 | 1312.8 | 1317.7 | 15°   |
| 17.5° | 1153.3 | 1159.3 | 1172.7 | 1186.1 | 1206.8 | 1230.0 | 1256.8 | 1279.9 | 1305.5 | 1328.6 | 1351.8 | 17.5° |
| 20°   | 1079.0 | 1088.7 | 1092.4 | 1116.7 | 1141.1 | 1172.7 | 1204.4 | 1240.9 | 1284.8 | 1328.6 | 1373.7 | 20°   |
| 22.5° | 982.8  | 993.7  | 1010.8 | 1030.3 | 1055.8 | 1094.8 | 1132.6 | 1189.8 | 1248.2 | 1310.4 | 1381.0 | 22.5° |
| 25°   | 875.6  | 887.8  | 902.4  | 923.1  | 948.7  | 990.1  | 1044.9 | 1105.8 | 1177.6 | 1259.2 | 1346.9 | 25°   |
| 27.5° | 764.8  | 777.0  | 789.1  | 803.7  | 833.0  | 876.8  | 941.4  | 1004.7 | 1083.8 | 1172.7 | 1275.0 | 27.5° |
| 30°   | 654.0  | 655.2  | 662.5  | 680.8  | 711.2  | 768.4  | 815.9  | 895.1  | 977.9  | 1071.7 | 1189.8 | 30°   |
| 32.5° | 532.2  | 531.0  | 539.5  | 555.3  | 584.5  | 639.3  | 697.8  | 774.5  | 856.1  | 974.2  | 1096.0 | 32.5° |
| 35°   | 423.8  | 423.8  | 439.6  | 455.5  | 488.3  | 527.3  | 578.5  | 646.7  | 742.9  | 852.5  | 974.2  | 35°   |
| 37.5° | 366.6  | 375.1  | 384.8  | 400.7  | 426.2  | 456.7  | 501.7  | 561.4  | 636.9  | 741.6  | 853.7  | 37.5° |
| 40°   | 348.3  | 353.2  | 361.7  | 376.3  | 398.2  | 426.2  | 459.1  | 504.2  | 562.6  | 646.7  | 748.9  | 40°   |
| 42.5° | 341.0  | 342.2  | 347.1  | 358.0  | 377.5  | 405.5  | 439.6  | 479.8  | 523.7  | 583.3  | 672.2  | 42.5° |
| 45°   | 333.7  | 332.5  | 334.9  | 343.4  | 359.3  | 390.9  | 429.9  | 473.7  | 517.6  | 567.5  | 640.6  | 45°   |
| 47.5° | 327.6  | 327.6  | 327.6  | 331.2  | 345.9  | 377.5  | 422.6  | 473.7  | 526.1  | 582.1  | 654.0  | 47.5° |
| 50°   | 310.5  | 309.3  | 309.3  | 311.8  | 322.7  | 356.8  | 410.4  | 472.5  | 540.7  | 613.8  | 695.4  | 50°   |
| 52.5° | 291.1  | 291.1  | 292.3  | 293.5  | 303.2  | 337.3  | 397.0  | 472.5  | 557.8  | 655.2  | 757.5  | 52.5° |
| 55°   | 285.0  | 286.2  | 287.4  | 286.2  | 293.5  | 322.7  | 382.4  | 465.2  | 565.1  | 688.1  | 824.5  | 55°   |
| 57.5° | 280.1  | 282.5  | 282.5  | 281.3  | 286.2  | 310.5  | 367.8  | 450.6  | 559.0  | 700.2  | 871.9  | 57.5° |
| 60°   | 272.8  | 272.8  | 272.8  | 269.1  | 271.6  | 293.5  | 345.9  | 427.4  | 539.5  | 689.3  | 879.3  | 60°   |
| 62.5° | 257.0  | 257.0  | 254.5  | 253.3  | 252.1  | 269.1  | 316.6  | 393.3  | 504.2  | 660.0  | 861.0  | 62.5° |
| 63°   | 253.3  | 252.1  | 252.1  | 248.4  | 248.4  | 264.3  | 310.5  | 388.5  | 494.4  | 652.7  | 853.7  | 63°   |
| 65°   | 239.9  | 239.9  | 239.9  | 237.5  | 236.3  | 248.4  | 286.2  | 354.4  | 456.7  | 618.6  | 817.1  | 65°   |
| 67.5° | 225.3  | 226.5  | 224.1  | 222.9  | 221.6  | 228.9  | 258.2  | 311.8  | 398.2  | 546.8  | 748.9  | 67.5° |
| 70°   | 204.6  | 205.8  | 205.8  | 204.6  | 203.4  | 208.2  | 226.5  | 267.9  | 330.0  | 455.5  | 638.1  | 70°   |
| 72.5° | 186.3  | 188.8  | 188.8  | 191.2  | 191.2  | 194.8  | 202.2  | 222.9  | 264.3  | 355.6  | 501.7  | 72.5° |
| 75°   | 166.8  | 168.1  | 170.5  | 172.9  | 170.5  | 169.3  | 170.5  | 186.3  | 207.0  | 263.0  | 358.0  | 75°   |
| 77.5° | 149.8  | 153.4  | 153.4  | 152.2  | 148.6  | 146.1  | 146.1  | 153.4  | 170.5  | 199.7  | 255.7  | 77.5° |
| 80°   | 124.2  | 130.3  | 131.5  | 127.9  | 124.2  | 124.2  | 126.7  | 131.5  | 142.5  | 164.4  | 193.6  | 80°   |
| 82.5° | 99.9   | 105.9  | 107.2  | 108.4  | 107.2  | 110.8  | 110.8  | 112.0  | 118.1  | 135.2  | 158.3  | 82.5° |
| 85°   | 76.7   | 81.6   | 85.2   | 86.5   | 87.7   | 88.9   | 87.7   | 81.6   | 85.2   | 96.2   | 107.2  | 85°   |
| 87.5° | 34.1   | 35.3   | 32.9   | 34.1   | 32.9   | 34.1   | 35.3   | 29.2   | 28.0   | 37.8   | 39.0   | 87.5° |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 90°   |



NUMBER: P152799

NUMBER: VWM-E04-LED-E1-SLL-7030

**DISTRIBUTION (continued):**

| 330°   | 335°   | 340°   | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|--------|--------|
| 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 |
| 1264.1 | 1264.1 | 1265.3 | 1262.9 | 1262.9 | 1264.1 | 1260.4 |
| 1244.6 | 1249.5 | 1249.5 | 1249.5 | 1247.0 | 1249.5 | 1250.7 |
| 1249.5 | 1253.1 | 1255.6 | 1255.6 | 1254.3 | 1259.2 | 1262.9 |
| 1255.6 | 1261.6 | 1264.1 | 1264.1 | 1264.1 | 1270.2 | 1278.7 |
| 1278.7 | 1283.6 | 1287.2 | 1287.2 | 1289.7 | 1297.0 | 1306.7 |
| 1321.3 | 1327.4 | 1327.4 | 1326.2 | 1333.5 | 1342.0 | 1353.0 |
| 1368.8 | 1385.9 | 1394.4 | 1393.2 | 1399.3 | 1410.2 | 1422.4 |
| 1413.9 | 1461.4 | 1482.1 | 1496.7 | 1502.8 | 1517.4 | 1521.0 |
| 1451.6 | 1530.8 | 1588.0 | 1636.7 | 1659.9 | 1674.5 | 1691.5 |
| 1438.2 | 1545.4 | 1647.7 | 1747.5 | 1818.2 | 1890.0 | 1920.5 |
| 1383.4 | 1517.4 | 1651.3 | 1797.5 | 1925.3 | 2053.2 | 2145.8 |
| 1316.4 | 1477.2 | 1657.4 | 1864.5 | 2066.6 | 2262.7 | 2418.6 |
| 1239.7 | 1439.4 | 1670.8 | 1926.6 | 2192.0 | 2449.0 | 2674.3 |
| 1143.5 | 1367.6 | 1637.9 | 1932.6 | 2245.6 | 2557.4 | 2849.7 |
| 1021.7 | 1270.2 | 1561.2 | 1888.8 | 2248.1 | 2604.9 | 2954.4 |
| 900.0  | 1147.2 | 1463.8 | 1825.5 | 2216.4 | 2615.8 | 3020.1 |
| 814.7  | 1037.6 | 1365.2 | 1745.1 | 2165.2 | 2598.8 | 3051.8 |
| 756.3  | 958.4  | 1277.5 | 1672.0 | 2110.4 | 2568.3 | 3056.7 |
| 751.4  | 924.3  | 1220.2 | 1618.5 | 2066.6 | 2541.5 | 3056.7 |
| 792.8  | 942.6  | 1200.8 | 1591.7 | 2048.3 | 2533.0 | 3059.1 |
| 870.7  | 1015.6 | 1236.1 | 1612.4 | 2063.0 | 2544.0 | 3070.1 |
| 964.5  | 1126.5 | 1331.1 | 1684.2 | 2125.1 | 2580.5 | 3094.4 |
| 1049.7 | 1254.3 | 1493.0 | 1823.0 | 2238.3 | 2673.1 | 3162.6 |
| 1099.7 | 1363.9 | 1664.7 | 2017.9 | 2431.9 | 2857.0 | 3299.0 |
| 1105.8 | 1424.8 | 1817.0 | 2229.8 | 2667.0 | 3067.6 | 3517.0 |
| 1100.9 | 1429.7 | 1836.4 | 2270.0 | 2716.9 | 3120.0 | 3592.5 |
| 1074.1 | 1430.9 | 1891.2 | 2411.2 | 2889.8 | 3340.4 | 3803.2 |
| 1005.9 | 1391.9 | 1910.7 | 2522.1 | 3107.8 | 3630.3 | 4196.5 |
| 887.8  | 1281.1 | 1853.5 | 2524.5 | 3191.9 | 3792.2 | 4445.0 |
| 713.6  | 1070.4 | 1606.3 | 2296.8 | 2970.2 | 3632.7 | 4380.4 |
| 522.4  | 786.7  | 1214.1 | 1779.2 | 2423.4 | 3023.8 | 3752.0 |
| 347.1  | 509.0  | 818.4  | 1267.7 | 1737.8 | 2176.2 | 2701.1 |
| 238.7  | 315.4  | 478.6  | 762.3  | 1063.1 | 1276.3 | 1720.8 |
| 175.4  | 208.2  | 265.5  | 389.7  | 511.5  | 629.6  | 898.7  |
| 109.6  | 119.3  | 132.7  | 192.4  | 275.2  | 371.4  | 560.2  |
| 29.2   | 30.4   | 28.0   | 37.8   | 59.7   | 57.2   | 63.3   |
| 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)