

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: P181663

Luminaire Tested: **ICM-F05-LED-E1-T4-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P181663  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ICM-F05-LED-E1-T4-7030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4  
Light Source: (35) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10598.2 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 133.3  
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

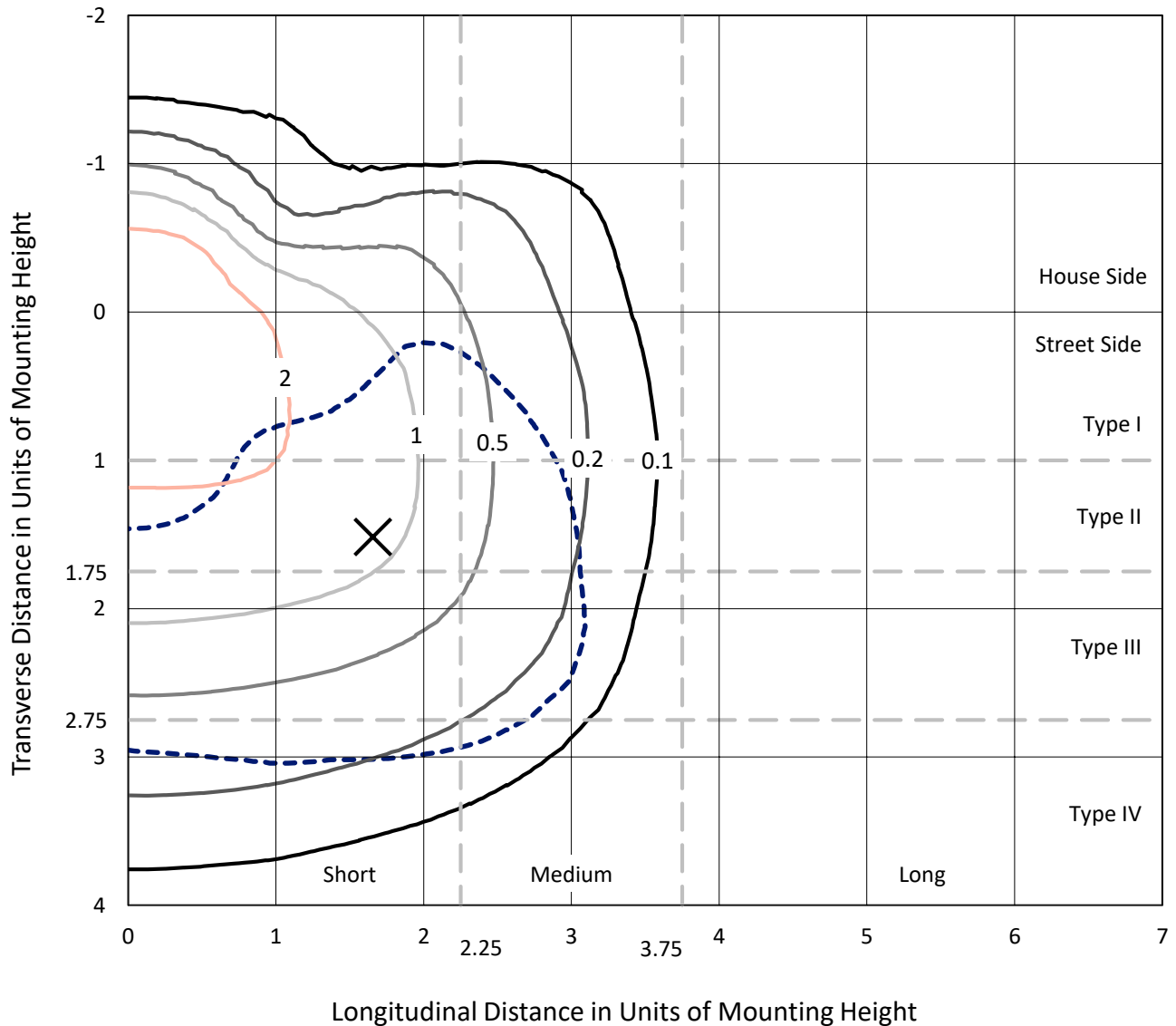


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

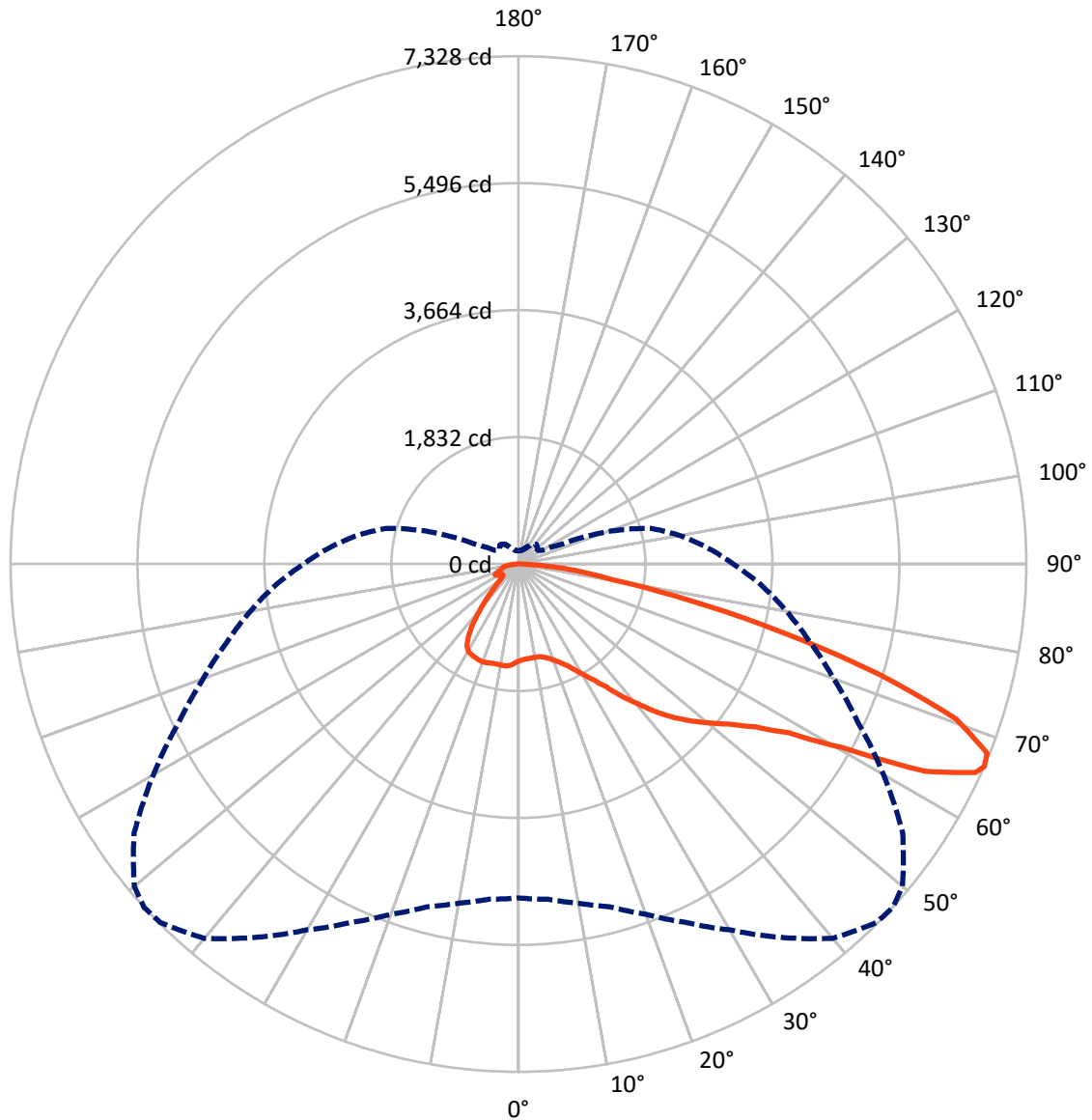


Based on 20 foot mounting height. Maximum calculated value = 3.7 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2261.4   | 0.0    | 2261.4  |
|                    | % Fixture | 21.3     | 0.0    | 21.3    |
| <b>Street Side</b> | Lumens    | 8336.8   | 0.0    | 8336.8  |
|                    | % Fixture | 78.7     | 0.0    | 78.7    |
| <b>Total</b>       | Lumens    | 10598.2  | 0.0    | 10598.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 135.6   | 1.3       |
| 10°-20°   | 411.9   | 3.9       |
| 20°-30°   | 709.4   | 6.7       |
| 30°-40°   | 1073.3  | 10.1      |
| 40°-50°   | 1391.1  | 13.1      |
| 50°-60°   | 1917.9  | 18.1      |
| 60°-70°   | 2979.8  | 28.1      |
| 70°-80°   | 1732.8  | 16.3      |
| 80°-90°   | 246.4   | 2.3       |
| 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°    | 10598.2 | 100.0     |
| 0°-180°   | 10598.2 | 100.0     |



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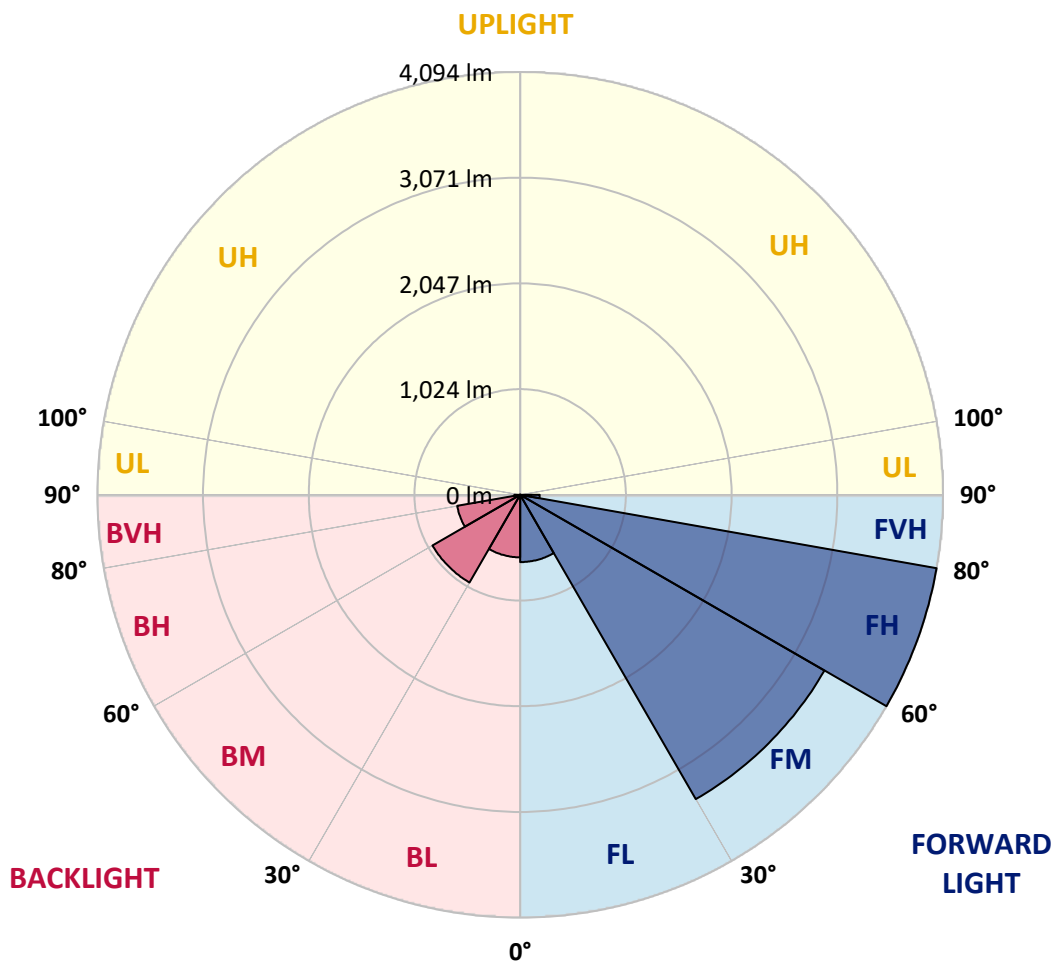
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 651.6  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 3402.0 | 32.1      |                         |      |         |
| FH   | (60°-80°)   | 4094.1 | 38.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 189.1  | 1.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 605.3  | 5.7       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 980.3  | 9.2       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 618.5  | 5.8       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 57.3   | 0.5       |                         |      | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 47.5°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1396.9 | 1396.9 | 1396.9 | 1396.9 | 1396.9 | 1396.9 | 1396.9 | 1396.9 | 1396.9 | 1396.9 | 1396.9 |
| 2.5°  | 1371.3 | 1375.9 | 1372.4 | 1373.6 | 1373.6 | 1374.7 | 1374.7 | 1375.9 | 1374.7 | 1378.2 | 1380.6 |
| 5°    | 1346.7 | 1349.0 | 1347.8 | 1350.1 | 1352.6 | 1357.2 | 1356.0 | 1361.9 | 1363.1 | 1366.5 | 1372.4 |
| 7.5°  | 1337.3 | 1335.0 | 1336.2 | 1339.6 | 1342.0 | 1344.4 | 1346.7 | 1351.4 | 1354.9 | 1363.1 | 1367.7 |
| 10°   | 1346.7 | 1345.5 | 1346.7 | 1349.0 | 1349.0 | 1350.1 | 1347.8 | 1352.6 | 1354.9 | 1361.9 | 1366.5 |
| 12.5° | 1385.2 | 1385.2 | 1382.9 | 1382.9 | 1380.6 | 1378.2 | 1372.4 | 1368.8 | 1367.7 | 1368.8 | 1371.3 |
| 15°   | 1447.2 | 1444.8 | 1440.2 | 1436.7 | 1432.0 | 1423.8 | 1415.6 | 1408.7 | 1403.9 | 1396.9 | 1394.6 |
| 17.5° | 1508.0 | 1504.5 | 1499.8 | 1495.2 | 1489.3 | 1481.1 | 1468.3 | 1460.1 | 1447.2 | 1439.0 | 1434.3 |
| 20°   | 1578.1 | 1571.1 | 1565.3 | 1559.5 | 1547.7 | 1545.4 | 1532.6 | 1518.5 | 1503.4 | 1484.7 | 1482.2 |
| 22.5° | 1669.3 | 1657.6 | 1650.6 | 1647.1 | 1635.5 | 1631.9 | 1610.9 | 1591.0 | 1572.3 | 1547.7 | 1541.9 |
| 25°   | 1761.7 | 1750.0 | 1746.4 | 1741.8 | 1733.6 | 1728.9 | 1709.0 | 1686.9 | 1662.3 | 1628.4 | 1621.4 |
| 27.5° | 1851.6 | 1852.8 | 1843.5 | 1847.0 | 1844.7 | 1836.5 | 1816.6 | 1794.4 | 1775.7 | 1735.9 | 1727.7 |
| 30°   | 1963.9 | 1956.8 | 1952.2 | 1959.3 | 1951.1 | 1952.2 | 1934.7 | 1923.0 | 1892.6 | 1869.2 | 1852.8 |
| 32.5° | 2080.8 | 2079.6 | 2086.6 | 2091.4 | 2090.2 | 2087.8 | 2073.8 | 2062.1 | 2035.2 | 2001.3 | 1994.3 |
| 35°   | 2240.9 | 2247.9 | 2253.8 | 2274.9 | 2274.9 | 2290.1 | 2276.0 | 2262.0 | 2230.4 | 2189.5 | 2175.5 |
| 37.5° | 2349.7 | 2352.0 | 2375.4 | 2403.5 | 2438.5 | 2471.3 | 2480.6 | 2484.1 | 2471.3 | 2440.9 | 2419.8 |
| 40°   | 2449.0 | 2453.7 | 2491.1 | 2534.3 | 2585.8 | 2650.1 | 2688.7 | 2706.2 | 2709.7 | 2695.6 | 2650.1 |
| 42.5° | 2548.4 | 2555.4 | 2594.0 | 2657.1 | 2728.4 | 2810.2 | 2878.1 | 2921.3 | 2945.9 | 2945.9 | 2919.0 |
| 45°   | 2664.1 | 2673.5 | 2715.6 | 2784.6 | 2867.6 | 2970.4 | 3063.9 | 3146.9 | 3186.6 | 3189.0 | 3163.3 |
| 47.5° | 2800.9 | 2809.0 | 2858.2 | 2928.3 | 3013.7 | 3117.7 | 3235.7 | 3330.4 | 3404.1 | 3408.8 | 3387.7 |
| 50°   | 2977.4 | 2989.1 | 3030.1 | 3093.1 | 3180.9 | 3286.1 | 3404.1 | 3536.2 | 3613.3 | 3632.0 | 3609.9 |
| 52.5° | 3211.2 | 3213.5 | 3247.5 | 3305.9 | 3391.3 | 3491.7 | 3616.9 | 3760.7 | 3862.3 | 3877.5 | 3841.3 |
| 55°   | 3533.9 | 3530.3 | 3552.6 | 3615.7 | 3680.0 | 3758.3 | 3888.0 | 4049.4 | 4162.8 | 4186.2 | 4148.8 |
| 57.5° | 3972.2 | 3968.7 | 3987.5 | 4002.6 | 4123.0 | 4199.0 | 4326.4 | 4480.8 | 4590.6 | 4658.4 | 4594.2 |
| 60°   | 4651.4 | 4647.9 | 4678.3 | 4767.1 | 4857.1 | 4968.2 | 5092.1 | 5276.8 | 5431.1 | 5451.0 | 5387.8 |
| 62.5° | 5143.6 | 5161.1 | 5227.8 | 5331.8 | 5514.1 | 5731.6 | 5958.4 | 6201.5 | 6518.3 | 6618.8 | 6588.4 |
| 65°   | 4971.8 | 5006.8 | 5099.1 | 5257.0 | 5500.1 | 5800.5 | 6155.9 | 6596.6 | 7021.0 | 7258.3 | 7251.2 |
| 66°   | 4817.4 | 4855.9 | 4969.3 | 5121.3 | 5378.5 | 5707.0 | 6095.1 | 6575.6 | 7050.2 | 7312.0 | 7328.4 |
| 67.5° | 4536.9 | 4580.1 | 4691.2 | 4871.2 | 5121.3 | 5470.8 | 5888.2 | 6410.7 | 6947.3 | 7252.4 | 7295.7 |
| 70°   | 3990.9 | 4040.0 | 4120.7 | 4269.1 | 4515.8 | 4827.9 | 5267.5 | 5735.1 | 6297.3 | 6646.8 | 6699.5 |
| 72.5° | 3336.3 | 3379.6 | 3469.6 | 3591.1 | 3793.3 | 3989.8 | 4334.6 | 4679.5 | 5081.6 | 5480.2 | 5441.6 |
| 75°   | 2395.3 | 2414.0 | 2467.7 | 2599.8 | 2708.6 | 2885.0 | 3162.2 | 3445.0 | 3719.7 | 3902.1 | 3927.8 |
| 77.5° | 1244.9 | 1294.1 | 1370.1 | 1516.2 | 1634.2 | 1793.2 | 1973.2 | 2186.0 | 2387.1 | 2554.2 | 2508.7 |
| 80°   | 814.8  | 835.8  | 903.6  | 978.4  | 1064.9 | 1166.6 | 1287.1 | 1366.5 | 1392.3 | 1381.8 | 1392.3 |
| 82.5° | 470.0  | 508.5  | 598.5  | 655.8  | 720.1  | 755.2  | 851.0  | 942.2  | 993.7  | 929.3  | 906.0  |
| 85°   | 59.6   | 77.1   | 243.2  | 306.2  | 350.7  | 403.3  | 432.6  | 487.4  | 454.7  | 406.8  | 495.6  |
| 87.5° | 12.8   | 11.7   | 16.4   | 35.1   | 36.3   | 30.4   | 57.3   | 60.7   | 37.4   | 18.7   | 23.3   |
| 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):**

|       | 50°    | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1396.9 | 1396.9 | 1396.9 | 1396.9 | 1396.9 | 1396.9 | 1396.9 | 1396.9 | 1396.9 | 1396.9 | 1396.9 |
| 2.5°  | 1382.9 | 1384.1 | 1386.4 | 1390.0 | 1392.3 | 1394.6 | 1396.9 | 1400.5 | 1402.8 | 1405.1 | 1409.8 |
| 5°    | 1377.0 | 1381.8 | 1386.4 | 1391.1 | 1396.9 | 1406.3 | 1412.1 | 1416.8 | 1421.5 | 1430.8 | 1434.3 |
| 7.5°  | 1373.6 | 1381.8 | 1388.8 | 1396.9 | 1406.3 | 1414.5 | 1425.0 | 1430.8 | 1437.9 | 1443.7 | 1450.7 |
| 10°   | 1371.3 | 1382.9 | 1390.0 | 1401.6 | 1412.1 | 1420.3 | 1432.0 | 1439.0 | 1447.2 | 1454.2 | 1457.7 |
| 12.5° | 1375.9 | 1381.8 | 1388.8 | 1400.5 | 1413.3 | 1425.0 | 1437.9 | 1443.7 | 1450.7 | 1456.6 | 1457.7 |
| 15°   | 1395.7 | 1395.7 | 1396.9 | 1406.3 | 1419.2 | 1428.5 | 1439.0 | 1444.8 | 1448.4 | 1451.9 | 1451.9 |
| 17.5° | 1432.0 | 1423.8 | 1418.0 | 1419.2 | 1427.4 | 1433.2 | 1439.0 | 1439.0 | 1436.7 | 1435.5 | 1433.2 |
| 20°   | 1474.1 | 1463.5 | 1451.9 | 1443.7 | 1441.4 | 1436.7 | 1433.2 | 1421.5 | 1412.1 | 1403.9 | 1398.1 |
| 22.5° | 1534.9 | 1518.5 | 1502.1 | 1487.0 | 1472.9 | 1455.4 | 1435.5 | 1412.1 | 1390.0 | 1374.7 | 1365.4 |
| 25°   | 1609.7 | 1596.8 | 1576.9 | 1553.6 | 1536.0 | 1503.4 | 1477.6 | 1443.7 | 1415.6 | 1395.7 | 1379.5 |
| 27.5° | 1716.1 | 1700.8 | 1682.1 | 1661.1 | 1635.5 | 1599.2 | 1567.6 | 1527.8 | 1494.0 | 1464.8 | 1443.7 |
| 30°   | 1848.2 | 1828.3 | 1814.2 | 1788.6 | 1771.0 | 1730.2 | 1698.5 | 1649.4 | 1584.0 | 1537.2 | 1508.0 |
| 32.5° | 1983.7 | 1961.6 | 1949.9 | 1930.0 | 1910.2 | 1885.6 | 1837.7 | 1761.7 | 1677.5 | 1601.5 | 1551.3 |
| 35°   | 2164.9 | 2141.6 | 2120.6 | 2103.0 | 2073.8 | 2028.2 | 1986.2 | 1894.9 | 1779.2 | 1672.8 | 1588.7 |
| 37.5° | 2392.9 | 2354.3 | 2301.8 | 2257.3 | 2205.9 | 2140.4 | 2076.1 | 1982.6 | 1850.5 | 1712.6 | 1600.4 |
| 40°   | 2636.1 | 2568.3 | 2493.4 | 2410.4 | 2321.6 | 2226.9 | 2153.3 | 2058.6 | 1910.2 | 1746.4 | 1592.2 |
| 42.5° | 2889.8 | 2782.2 | 2678.2 | 2561.2 | 2437.3 | 2325.1 | 2229.2 | 2125.2 | 1954.5 | 1755.8 | 1559.5 |
| 45°   | 3141.0 | 3020.7 | 2862.9 | 2709.7 | 2553.0 | 2414.0 | 2306.4 | 2189.5 | 1995.5 | 1759.4 | 1516.2 |
| 47.5° | 3349.1 | 3225.2 | 3045.2 | 2853.5 | 2667.6 | 2509.8 | 2383.5 | 2257.3 | 2050.4 | 1783.9 | 1505.7 |
| 50°   | 3569.0 | 3418.2 | 3218.3 | 2991.5 | 2781.0 | 2604.5 | 2470.1 | 2339.2 | 2127.5 | 1847.0 | 1539.5 |
| 52.5° | 3808.6 | 3635.6 | 3401.8 | 3148.1 | 2917.8 | 2720.2 | 2574.2 | 2439.6 | 2225.8 | 1935.8 | 1603.8 |
| 55°   | 4100.8 | 3889.2 | 3635.6 | 3349.1 | 3102.5 | 2883.9 | 2722.6 | 2563.6 | 2342.6 | 2041.0 | 1684.5 |
| 57.5° | 4547.4 | 4287.8 | 4002.6 | 3676.5 | 3402.9 | 3144.6 | 2951.7 | 2768.2 | 2523.8 | 2197.7 | 1794.4 |
| 60°   | 5355.1 | 5078.1 | 4707.6 | 4312.4 | 3990.9 | 3689.3 | 3406.4 | 3178.4 | 2878.1 | 2506.3 | 2037.6 |
| 62.5° | 6512.4 | 6144.2 | 5649.7 | 5096.8 | 4675.9 | 4241.0 | 3922.0 | 3582.9 | 3210.1 | 2809.0 | 2323.9 |
| 65°   | 7155.4 | 6708.8 | 6047.2 | 5405.4 | 4864.1 | 4391.9 | 3986.3 | 3593.5 | 3179.6 | 2796.2 | 2390.6 |
| 66°   | 7234.8 | 6769.6 | 6082.3 | 5406.5 | 4838.4 | 4353.3 | 3926.6 | 3519.8 | 3096.7 | 2730.7 | 2362.5 |
| 67.5° | 7202.2 | 6726.4 | 6018.0 | 5304.9 | 4727.4 | 4206.0 | 3765.3 | 3343.3 | 2921.3 | 2579.9 | 2269.0 |
| 70°   | 6665.6 | 6214.4 | 5518.8 | 4827.9 | 4279.7 | 3765.3 | 3344.5 | 2929.5 | 2542.5 | 2250.3 | 2021.2 |
| 72.5° | 5535.2 | 5149.4 | 4545.1 | 4002.6 | 3572.4 | 3148.1 | 2791.6 | 2395.3 | 2067.9 | 1851.6 | 1716.1 |
| 75°   | 3995.6 | 3761.8 | 3211.2 | 2900.3 | 2522.7 | 2240.9 | 1894.9 | 1660.0 | 1425.0 | 1319.8 | 1296.4 |
| 77.5° | 2523.8 | 2209.4 | 1859.8 | 1531.4 | 1259.0 | 1043.9 | 812.5  | 689.7  | 575.2  | 563.4  | 680.4  |
| 80°   | 1277.7 | 1150.2 | 886.1  | 706.1  | 593.9  | 480.5  | 379.9  | 287.5  | 201.0  | 242.0  | 290.0  |
| 82.5° | 837.0  | 697.9  | 547.1  | 450.0  | 391.6  | 325.0  | 252.5  | 175.3  | 128.6  | 144.9  | 198.7  |
| 85°   | 452.4  | 385.8  | 311.0  | 245.5  | 198.7  | 177.7  | 119.3  | 84.2   | 83.0   | 88.8   | 113.4  |
| 87.5° | 32.7   | 32.7   | 25.7   | 23.3   | 28.1   | 23.3   | 21.0   | 21.0   | 19.9   | 21.0   | 28.1   |
| 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):**

|       | 105°   | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1396.9 | 1396.9 | 1396.9 | 1396.9 | 1396.9 | 1396.9 | 1396.9 | 1396.9 | 1396.9 | 1396.9 | 1396.9 |
| 2.5°  | 1412.1 | 1415.6 | 1416.8 | 1422.7 | 1426.1 | 1428.5 | 1430.8 | 1430.8 | 1432.0 | 1435.5 | 1436.7 |
| 5°    | 1439.0 | 1444.8 | 1451.9 | 1456.6 | 1458.9 | 1465.9 | 1468.3 | 1468.3 | 1470.6 | 1475.3 | 1478.8 |
| 7.5°  | 1455.4 | 1463.5 | 1470.6 | 1472.9 | 1477.6 | 1479.9 | 1483.5 | 1485.8 | 1485.8 | 1490.4 | 1492.8 |
| 10°   | 1461.2 | 1465.9 | 1472.9 | 1472.9 | 1477.6 | 1477.6 | 1481.1 | 1482.2 | 1482.2 | 1487.0 | 1490.4 |
| 12.5° | 1461.2 | 1463.5 | 1469.4 | 1469.4 | 1472.9 | 1474.1 | 1478.8 | 1482.2 | 1483.5 | 1489.3 | 1494.0 |
| 15°   | 1454.2 | 1456.6 | 1461.2 | 1462.4 | 1470.6 | 1475.3 | 1485.8 | 1492.8 | 1492.8 | 1498.6 | 1500.9 |
| 17.5° | 1434.3 | 1440.2 | 1449.6 | 1458.9 | 1474.1 | 1484.7 | 1497.5 | 1503.4 | 1498.6 | 1495.2 | 1491.6 |
| 20°   | 1401.6 | 1412.1 | 1434.3 | 1457.7 | 1484.7 | 1498.6 | 1505.7 | 1499.8 | 1483.5 | 1467.1 | 1456.6 |
| 22.5° | 1368.8 | 1390.0 | 1427.4 | 1462.4 | 1492.8 | 1502.1 | 1498.6 | 1477.6 | 1450.7 | 1430.8 | 1416.8 |
| 25°   | 1384.1 | 1408.7 | 1444.8 | 1476.5 | 1496.3 | 1494.0 | 1479.9 | 1450.7 | 1421.5 | 1395.7 | 1372.4 |
| 27.5° | 1447.2 | 1474.1 | 1494.0 | 1504.5 | 1502.1 | 1485.8 | 1463.5 | 1430.8 | 1395.7 | 1361.9 | 1329.1 |
| 30°   | 1506.8 | 1520.8 | 1525.5 | 1517.3 | 1498.6 | 1471.7 | 1443.7 | 1406.3 | 1359.5 | 1317.5 | 1280.0 |
| 32.5° | 1533.7 | 1519.7 | 1497.5 | 1475.3 | 1444.8 | 1421.5 | 1382.9 | 1342.0 | 1283.5 | 1233.3 | 1195.9 |
| 35°   | 1533.7 | 1477.6 | 1421.5 | 1374.7 | 1329.1 | 1299.9 | 1255.4 | 1200.6 | 1146.8 | 1104.7 | 1075.4 |
| 37.5° | 1499.8 | 1392.3 | 1299.9 | 1223.9 | 1166.6 | 1135.1 | 1068.5 | 1019.4 | 973.8  | 959.7  | 941.0  |
| 40°   | 1437.9 | 1278.9 | 1145.6 | 1046.2 | 973.8  | 927.0  | 860.4  | 826.5  | 808.9  | 802.0  | 798.4  |
| 42.5° | 1354.9 | 1152.7 | 975.0  | 852.2  | 773.9  | 721.3  | 676.8  | 655.8  | 654.6  | 653.5  | 653.5  |
| 45°   | 1266.1 | 1017.0 | 808.9  | 662.8  | 593.9  | 547.1  | 526.0  | 517.9  | 524.8  | 523.7  | 524.8  |
| 47.5° | 1211.1 | 914.1  | 656.9  | 501.5  | 448.9  | 418.5  | 408.0  | 411.4  | 417.3  | 415.0  | 415.0  |
| 50°   | 1204.1 | 861.6  | 555.3  | 390.4  | 350.7  | 335.5  | 333.1  | 333.1  | 336.7  | 334.3  | 333.1  |
| 52.5° | 1229.8 | 853.4  | 502.7  | 335.5  | 303.9  | 291.1  | 288.7  | 287.5  | 286.4  | 279.4  | 273.6  |
| 55°   | 1274.2 | 872.1  | 487.4  | 321.5  | 288.7  | 274.7  | 271.2  | 268.8  | 264.2  | 254.9  | 244.3  |
| 57.5° | 1363.1 | 930.5  | 501.5  | 328.5  | 293.4  | 281.8  | 278.2  | 278.2  | 268.8  | 253.7  | 238.5  |
| 60°   | 1576.9 | 1079.0 | 558.8  | 355.4  | 315.6  | 303.9  | 306.2  | 305.1  | 291.1  | 268.8  | 245.5  |
| 62.5° | 1852.8 | 1273.0 | 633.6  | 392.7  | 343.7  | 341.3  | 353.0  | 350.7  | 327.4  | 293.4  | 259.5  |
| 65°   | 1980.3 | 1364.2 | 654.6  | 400.9  | 349.5  | 360.0  | 383.4  | 381.1  | 351.9  | 305.1  | 261.9  |
| 66°   | 1982.6 | 1364.2 | 645.3  | 394.0  | 341.3  | 354.2  | 377.6  | 376.4  | 347.2  | 300.5  | 257.2  |
| 67.5° | 1934.7 | 1326.8 | 618.4  | 379.9  | 325.0  | 334.3  | 355.4  | 354.2  | 327.4  | 288.7  | 247.8  |
| 70°   | 1754.6 | 1187.7 | 549.4  | 355.4  | 302.8  | 298.0  | 305.1  | 300.5  | 282.9  | 256.0  | 227.9  |
| 72.5° | 1503.4 | 997.1  | 479.3  | 336.7  | 287.5  | 268.8  | 264.2  | 260.7  | 246.7  | 231.4  | 214.0  |
| 75°   | 1184.2 | 789.0  | 420.8  | 322.6  | 273.6  | 249.0  | 240.8  | 236.1  | 226.8  | 216.3  | 202.2  |
| 77.5° | 730.6  | 564.7  | 367.1  | 303.9  | 263.0  | 238.5  | 232.7  | 225.6  | 211.6  | 198.7  | 188.2  |
| 80°   | 326.1  | 349.5  | 301.6  | 265.4  | 235.0  | 212.7  | 203.4  | 192.8  | 178.9  | 170.7  | 164.8  |
| 82.5° | 217.4  | 225.6  | 218.6  | 198.7  | 177.7  | 160.2  | 146.1  | 146.1  | 143.8  | 136.7  | 134.4  |
| 85°   | 139.1  | 140.3  | 135.6  | 122.7  | 114.6  | 104.0  | 98.2   | 99.3   | 104.0  | 102.9  | 101.7  |
| 87.5° | 31.5   | 31.5   | 37.4   | 35.1   | 40.9   | 43.3   | 46.8   | 50.2   | 57.3   | 57.3   | 60.7   |
| 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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|       | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1396.9 | 1396.9 | 1396.9 | 1396.9 | 1396.9 |
| 2.5°  | 1437.9 | 1440.2 | 1442.5 | 1439.0 | 1440.2 |
| 5°    | 1478.8 | 1477.6 | 1483.5 | 1479.9 | 1482.2 |
| 7.5°  | 1491.6 | 1492.8 | 1497.5 | 1497.5 | 1498.6 |
| 10°   | 1492.8 | 1495.2 | 1500.9 | 1504.5 | 1506.8 |
| 12.5° | 1498.6 | 1503.4 | 1512.7 | 1515.0 | 1515.0 |
| 15°   | 1503.4 | 1505.7 | 1511.5 | 1513.9 | 1516.2 |
| 17.5° | 1487.0 | 1482.2 | 1484.7 | 1485.8 | 1484.7 |
| 20°   | 1446.1 | 1441.4 | 1440.2 | 1435.5 | 1437.9 |
| 22.5° | 1401.6 | 1388.8 | 1380.6 | 1371.3 | 1371.3 |
| 25°   | 1347.8 | 1328.0 | 1311.6 | 1295.3 | 1298.7 |
| 27.5° | 1297.6 | 1271.8 | 1255.4 | 1244.9 | 1242.6 |
| 30°   | 1248.5 | 1221.6 | 1206.4 | 1193.5 | 1193.5 |
| 32.5° | 1166.6 | 1147.9 | 1128.1 | 1119.9 | 1118.7 |
| 35°   | 1053.2 | 1041.6 | 1025.2 | 1021.7 | 1015.8 |
| 37.5° | 925.9  | 922.3  | 908.3  | 907.2  | 901.3  |
| 40°   | 792.6  | 794.9  | 790.2  | 787.9  | 784.4  |
| 42.5° | 659.4  | 671.0  | 668.7  | 667.5  | 665.1  |
| 45°   | 531.9  | 540.1  | 541.2  | 544.7  | 550.6  |
| 47.5° | 418.5  | 420.8  | 423.2  | 422.0  | 423.2  |
| 50°   | 327.4  | 321.5  | 320.3  | 316.8  | 320.3  |
| 52.5° | 264.2  | 254.9  | 250.1  | 245.5  | 243.2  |
| 55°   | 232.7  | 223.3  | 218.6  | 216.3  | 214.0  |
| 57.5° | 224.5  | 215.1  | 208.1  | 203.4  | 202.2  |
| 60°   | 226.8  | 212.7  | 203.4  | 197.6  | 196.4  |
| 62.5° | 232.7  | 214.0  | 201.0  | 195.3  | 194.0  |
| 65°   | 231.4  | 211.6  | 199.9  | 192.8  | 191.7  |
| 66°   | 227.9  | 209.2  | 197.6  | 191.7  | 190.5  |
| 67.5° | 222.1  | 205.8  | 195.3  | 190.5  | 188.2  |
| 70°   | 211.6  | 201.0  | 192.8  | 187.1  | 184.7  |
| 72.5° | 202.2  | 194.0  | 187.1  | 181.2  | 180.0  |
| 75°   | 191.7  | 184.7  | 177.7  | 173.0  | 171.8  |
| 77.5° | 178.9  | 171.8  | 167.2  | 163.6  | 162.5  |
| 80°   | 157.8  | 153.1  | 148.5  | 143.8  | 143.8  |
| 82.5° | 130.9  | 127.4  | 122.7  | 119.3  | 118.0  |
| 85°   | 100.6  | 100.6  | 97.0   | 93.5   | 92.4   |
| 87.5° | 59.6   | 58.4   | 58.4   | 55.0   | 55.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)