

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: P401744

Luminaire Tested: **ENT-SA1E-827-U-SLL**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401744  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/20/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENT-SA1E-827-U-SLL  
Description: ENTRI LED LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4572 lumens  
Efficiency: N/A  
Efficacy: 79.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G1

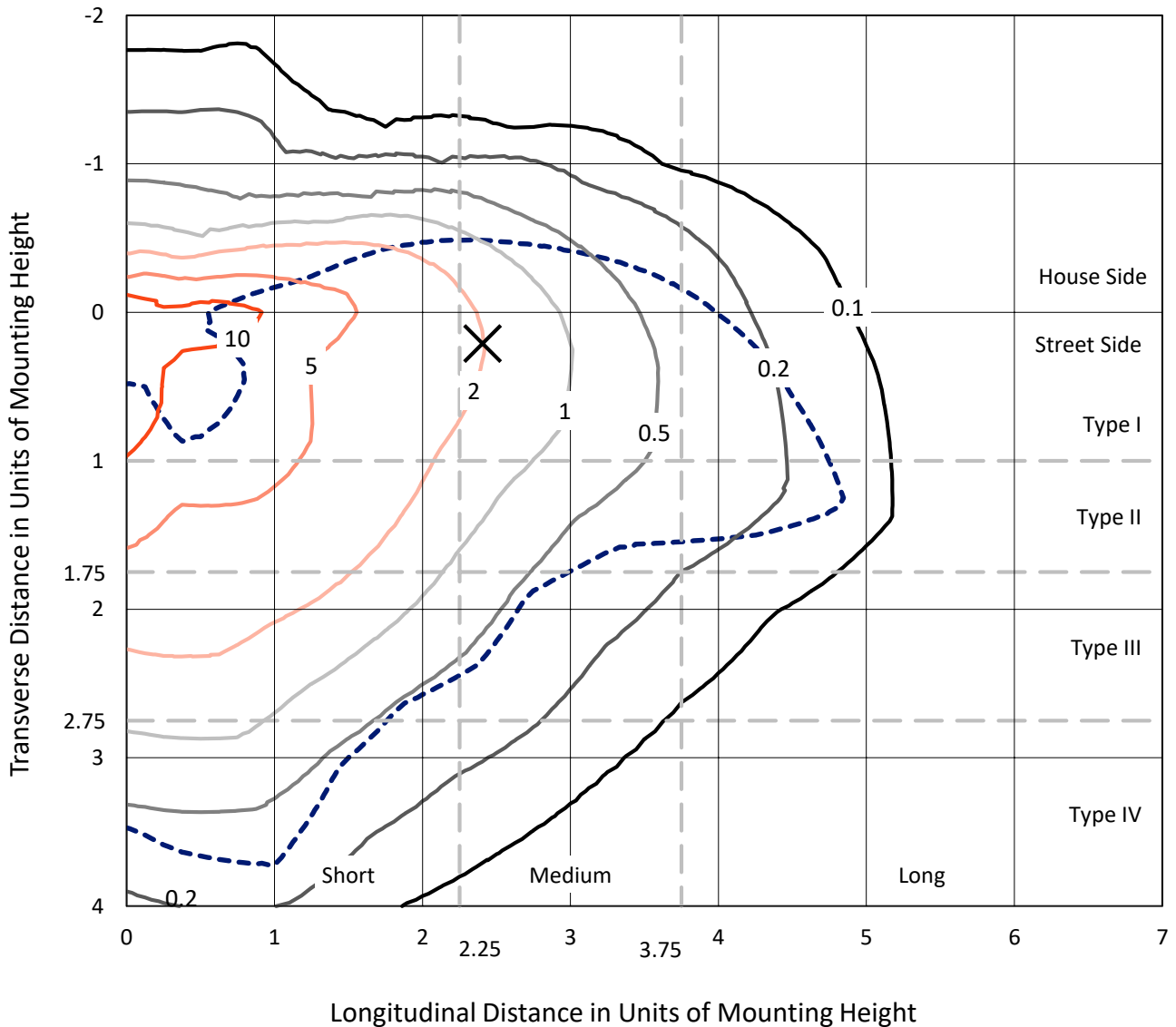
Input Watts (W): 57.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

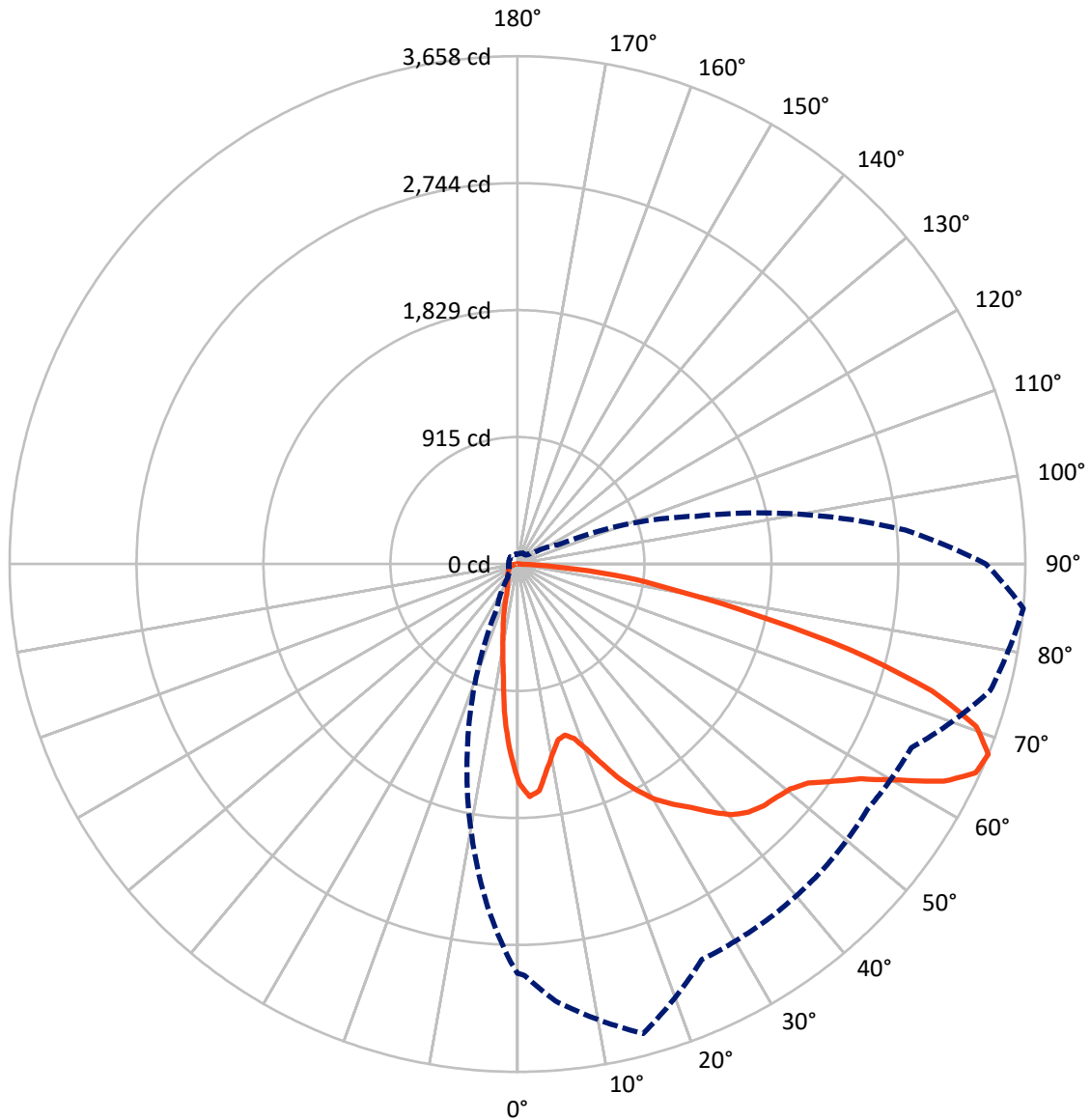
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.9 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 921.2    | 0.0    | 921.2  |
|                    | % Fixture | 20.1     | 0.0    | 20.1   |
| <b>Street Side</b> | Lumens    | 3650.8   | 0.0    | 3650.8 |
|                    | % Fixture | 79.9     | 0.0    | 79.9   |
| <b>Total</b>       | Lumens    | 4572.0   | 0.0    | 4572.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 120.1  | 2.6       |
| 10°-20°   | 236.9  | 5.2       |
| 20°-30°   | 330.9  | 7.2       |
| 30°-40°   | 466.5  | 10.2      |
| 40°-50°   | 646.4  | 14.1      |
| 50°-60°   | 908.3  | 19.9      |
| 60°-70°   | 1110.4 | 24.3      |
| 70°-80°   | 652.6  | 14.3      |
| 80°-90°   | 99.9   | 2.2       |
| 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°    | 4572.0 | 100.0     |
| 0°-180°   | 4572.0 | 100.0     |



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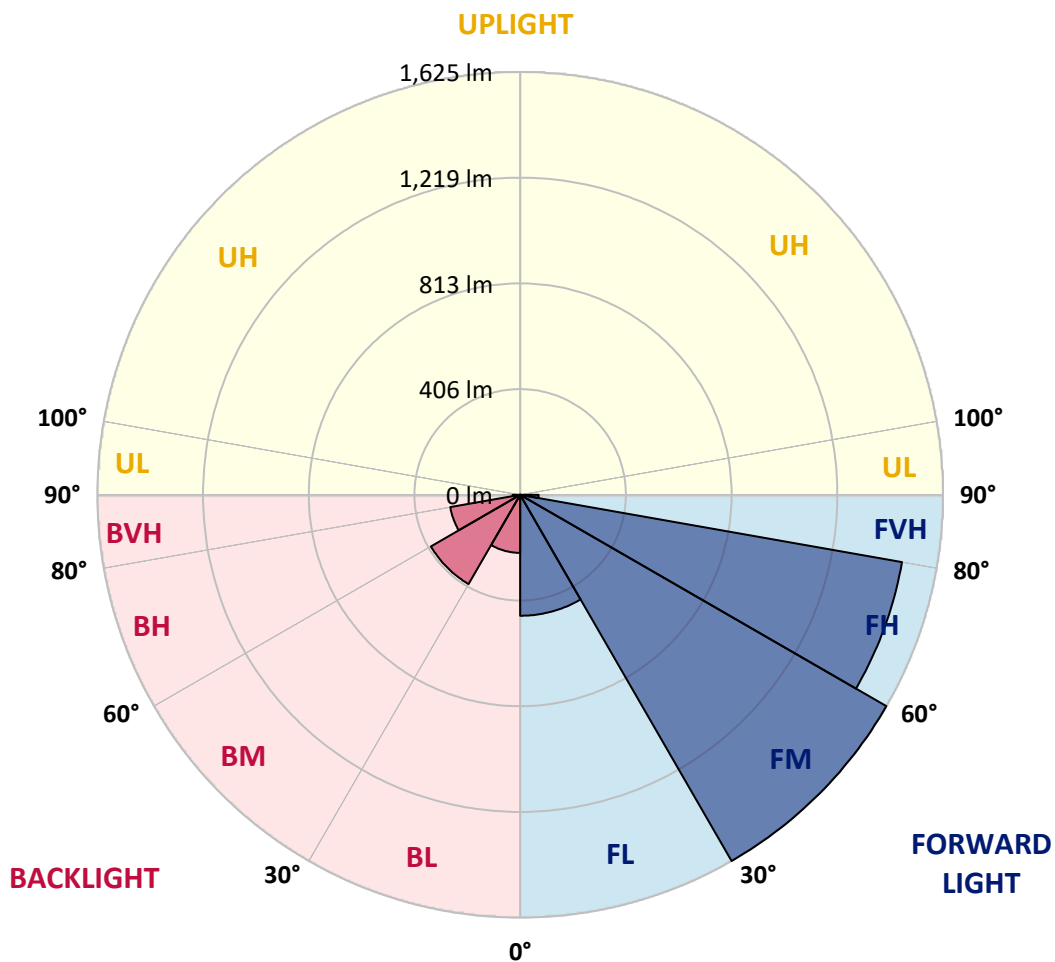
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 464.8  | 10.2      |                         |      |         |
| FM   | (30°-60°)   | 1625.2 | 35.5      |                         |      |         |
| FH   | (60°-80°)   | 1490.1 | 32.6      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 70.7   | 1.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 223.1  | 4.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 396.0  | 8.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 272.9  | 6.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 29.2   | 0.6       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 |
| 2.5°  | 1622.9 | 1615.6 | 1640.5 | 1677.3 | 1702.3 | 1719.9 | 1725.8 | 1725.1 | 1719.9 | 1706.0 | 1676.6 |
| 5°    | 1550.9 | 1544.3 | 1595.0 | 1676.6 | 1747.9 | 1799.3 | 1814.0 | 1793.4 | 1767.7 | 1713.3 | 1641.3 |
| 7.5°  | 1414.2 | 1424.5 | 1489.1 | 1603.8 | 1718.5 | 1800.0 | 1819.9 | 1787.5 | 1734.6 | 1623.6 | 1502.4 |
| 10°   | 1310.5 | 1315.7 | 1388.4 | 1526.6 | 1648.6 | 1732.4 | 1767.0 | 1738.3 | 1669.2 | 1528.8 | 1388.4 |
| 12.5° | 1246.6 | 1251.7 | 1322.3 | 1450.2 | 1580.3 | 1645.7 | 1656.0 | 1655.2 | 1597.9 | 1461.9 | 1299.5 |
| 15°   | 1255.4 | 1262.0 | 1332.6 | 1438.4 | 1511.9 | 1540.6 | 1541.3 | 1549.4 | 1532.5 | 1428.9 | 1278.2 |
| 17.5° | 1340.7 | 1340.7 | 1408.3 | 1472.2 | 1455.3 | 1434.7 | 1450.2 | 1464.9 | 1494.3 | 1448.7 | 1321.6 |
| 20°   | 1475.2 | 1481.0 | 1543.5 | 1532.5 | 1429.6 | 1378.1 | 1359.8 | 1385.5 | 1476.6 | 1508.2 | 1423.7 |
| 22.5° | 1620.7 | 1636.1 | 1701.6 | 1620.7 | 1425.2 | 1325.2 | 1304.6 | 1332.6 | 1478.8 | 1602.3 | 1564.1 |
| 25°   | 1781.7 | 1800.8 | 1844.9 | 1723.6 | 1438.4 | 1295.8 | 1281.9 | 1308.3 | 1484.7 | 1689.1 | 1715.5 |
| 27.5° | 1928.7 | 1930.1 | 1973.5 | 1810.3 | 1473.0 | 1298.8 | 1275.2 | 1309.8 | 1500.9 | 1757.4 | 1849.3 |
| 30°   | 2033.0 | 2033.0 | 2052.2 | 1854.4 | 1515.6 | 1317.1 | 1281.1 | 1331.8 | 1523.7 | 1794.9 | 1970.6 |
| 32.5° | 2128.6 | 2133.7 | 2124.2 | 1900.7 | 1556.0 | 1343.6 | 1295.1 | 1375.9 | 1559.7 | 1825.8 | 2063.9 |
| 35°   | 2249.9 | 2249.1 | 2206.5 | 1937.5 | 1593.5 | 1372.3 | 1329.6 | 1431.8 | 1611.9 | 1871.3 | 2152.8 |
| 37.5° | 2399.8 | 2392.5 | 2302.1 | 1970.6 | 1639.1 | 1421.5 | 1395.1 | 1508.2 | 1681.7 | 1925.0 | 2265.3 |
| 40°   | 2535.8 | 2524.0 | 2389.5 | 2001.4 | 1675.1 | 1517.1 | 1501.6 | 1603.1 | 1769.9 | 1991.9 | 2374.8 |
| 42.5° | 2641.6 | 2624.0 | 2463.8 | 2023.5 | 1729.5 | 1667.0 | 1680.2 | 1773.6 | 1858.8 | 2051.4 | 2443.2 |
| 45°   | 2730.6 | 2712.2 | 2519.6 | 2034.5 | 1861.0 | 1880.9 | 1906.6 | 1984.5 | 1953.7 | 2067.6 | 2485.1 |
| 47.5° | 2794.5 | 2764.4 | 2543.9 | 2066.9 | 2038.9 | 2130.8 | 2210.2 | 2215.3 | 2087.4 | 2066.9 | 2510.8 |
| 50°   | 2832.0 | 2798.9 | 2566.7 | 2147.0 | 2245.5 | 2414.5 | 2499.0 | 2459.3 | 2226.4 | 2080.1 | 2547.6 |
| 52.5° | 2907.7 | 2873.2 | 2661.5 | 2277.1 | 2457.1 | 2701.9 | 2747.5 | 2683.5 | 2370.4 | 2148.4 | 2621.1 |
| 55°   | 3098.1 | 3082.6 | 2845.2 | 2452.0 | 2665.2 | 2934.2 | 2954.7 | 2890.8 | 2521.1 | 2266.8 | 2761.4 |
| 57.5° | 3313.4 | 3279.6 | 3093.7 | 2671.8 | 2864.3 | 3115.7 | 3148.8 | 3060.6 | 2679.1 | 2432.9 | 2918.0 |
| 60°   | 3373.7 | 3367.1 | 3303.9 | 2928.3 | 3070.1 | 3309.8 | 3312.0 | 3199.5 | 2863.6 | 2630.6 | 3156.9 |
| 62.5° | 3285.5 | 3306.8 | 3391.3 | 3165.7 | 3242.9 | 3439.9 | 3421.5 | 3304.6 | 3056.9 | 2945.2 | 3447.2 |
| 65°   | 3131.9 | 3162.0 | 3331.8 | 3389.9 | 3282.6 | 3414.1 | 3375.2 | 3300.9 | 3178.9 | 3284.0 | 3627.3 |
| 67.5° | 2947.4 | 2963.6 | 3161.3 | 3501.6 | 3143.6 | 3131.1 | 3112.8 | 3079.0 | 3130.4 | 3525.1 | 3658.2 |
| 70°   | 2755.6 | 2769.5 | 2951.8 | 3348.0 | 2726.9 | 2583.6 | 2568.1 | 2538.7 | 2739.4 | 3522.2 | 3506.7 |
| 72.5° | 2322.6 | 2313.8 | 2482.1 | 2794.5 | 2082.3 | 1887.5 | 2018.3 | 1954.4 | 2216.1 | 3164.2 | 3123.8 |
| 75°   | 1442.8 | 1491.3 | 1702.3 | 1959.5 | 1426.7 | 1292.9 | 1473.7 | 1457.5 | 1799.3 | 2724.7 | 2487.3 |
| 77.5° | 879.1  | 888.6  | 1007.7 | 1221.6 | 859.2  | 896.0  | 947.4  | 1047.4 | 1334.0 | 2208.7 | 1733.9 |
| 80°   | 460.1  | 427.8  | 515.2  | 670.3  | 510.1  | 601.2  | 694.6  | 804.8  | 846.7  | 1439.9 | 1159.1 |
| 82.5° | 133.0  | 132.3  | 174.2  | 280.8  | 241.8  | 295.5  | 350.6  | 505.7  | 554.9  | 856.3  | 793.8  |
| 85°   | 0.7    | 0.7    | 0.7    | 1.5    | 2.2    | 3.7    | 15.4   | 130.1  | 172.0  | 396.9  | 326.3  |
| 87.5° | 0.0    | 0.0    | 0.7    | 1.5    | 1.5    | 2.9    | 4.4    | 5.9    | 7.4    | 8.8    | 32.3   |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 |
| 2.5°  | 1667.0 | 1656.0 | 1632.5 | 1600.9 | 1578.8 | 1540.6 | 1532.5 | 1508.2 | 1484.0 | 1464.1 | 1464.9 |
| 5°    | 1606.7 | 1569.2 | 1511.9 | 1445.8 | 1382.6 | 1326.0 | 1314.9 | 1281.9 | 1272.3 | 1262.7 | 1236.3 |
| 7.5°  | 1448.7 | 1404.6 | 1324.5 | 1226.7 | 1147.4 | 1093.7 | 1036.4 | 1001.8 | 971.0  | 935.7  | 944.5  |
| 10°   | 1327.4 | 1264.2 | 1154.0 | 1039.3 | 940.1  | 868.0  | 804.8  | 772.5  | 727.7  | 695.3  | 690.9  |
| 12.5° | 1234.1 | 1165.7 | 1033.4 | 898.9  | 805.6  | 763.7  | 723.3  | 672.5  | 622.6  | 579.9  | 557.9  |
| 15°   | 1203.2 | 1126.0 | 972.4  | 838.6  | 765.1  | 714.4  | 657.8  | 599.8  | 538.8  | 493.2  | 475.6  |
| 17.5° | 1239.2 | 1148.1 | 971.7  | 812.9  | 721.0  | 646.8  | 576.2  | 510.8  | 438.8  | 393.2  | 379.3  |
| 20°   | 1338.5 | 1224.5 | 992.3  | 788.7  | 667.4  | 566.7  | 467.5  | 396.9  | 323.4  | 291.1  | 276.4  |
| 22.5° | 1476.6 | 1328.2 | 1023.9 | 759.3  | 607.9  | 468.9  | 357.2  | 268.3  | 232.3  | 216.1  | 212.4  |
| 25°   | 1618.5 | 1459.7 | 1068.7 | 734.3  | 542.4  | 373.4  | 256.5  | 214.6  | 197.7  | 190.4  | 190.4  |
| 27.5° | 1774.3 | 1591.3 | 1117.2 | 704.1  | 474.8  | 277.8  | 208.7  | 188.9  | 180.1  | 175.7  | 174.9  |
| 30°   | 1900.7 | 1698.6 | 1172.3 | 668.9  | 413.8  | 227.9  | 185.2  | 172.0  | 163.9  | 161.7  | 161.7  |
| 32.5° | 1991.9 | 1778.7 | 1230.4 | 633.6  | 358.0  | 205.8  | 172.0  | 160.2  | 151.4  | 149.9  | 149.9  |
| 35°   | 2098.5 | 1855.2 | 1256.9 | 613.7  | 324.1  | 191.8  | 162.4  | 150.7  | 142.6  | 138.9  | 138.9  |
| 37.5° | 2226.4 | 1946.3 | 1271.6 | 594.6  | 309.4  | 178.6  | 155.8  | 142.6  | 134.5  | 130.1  | 130.1  |
| 40°   | 2388.8 | 2049.9 | 1287.0 | 575.5  | 300.6  | 167.6  | 148.5  | 135.2  | 128.6  | 123.5  | 123.5  |
| 42.5° | 2504.9 | 2145.5 | 1298.8 | 559.3  | 285.2  | 162.4  | 142.6  | 130.1  | 122.0  | 117.6  | 116.9  |
| 45°   | 2565.9 | 2234.4 | 1303.9 | 549.8  | 267.5  | 166.8  | 138.2  | 125.7  | 116.1  | 111.7  | 111.0  |
| 47.5° | 2607.1 | 2307.9 | 1310.5 | 542.4  | 253.6  | 158.8  | 137.4  | 121.3  | 111.7  | 105.8  | 105.8  |
| 50°   | 2672.5 | 2405.0 | 1327.4 | 528.5  | 245.5  | 148.5  | 148.5  | 119.1  | 106.6  | 101.4  | 100.7  |
| 52.5° | 2789.4 | 2543.9 | 1373.0 | 513.0  | 236.7  | 138.2  | 152.9  | 119.8  | 102.9  | 97.0   | 95.6   |
| 55°   | 2965.8 | 2765.1 | 1448.7 | 491.0  | 224.2  | 125.7  | 142.6  | 120.5  | 99.2   | 94.1   | 91.9   |
| 57.5° | 3195.1 | 3032.7 | 1536.9 | 473.3  | 202.9  | 115.4  | 130.1  | 116.9  | 94.8   | 90.4   | 88.9   |
| 60°   | 3349.4 | 3211.3 | 1592.8 | 450.6  | 172.7  | 108.8  | 111.7  | 113.2  | 90.4   | 85.3   | 84.5   |
| 62.5° | 3432.5 | 3214.2 | 1593.5 | 419.0  | 144.8  | 102.9  | 100.0  | 115.4  | 86.7   | 80.1   | 79.4   |
| 65°   | 3438.4 | 3057.6 | 1513.4 | 378.5  | 135.2  | 96.3   | 91.9   | 102.2  | 83.1   | 76.4   | 75.7   |
| 67.5° | 3374.4 | 2802.6 | 1330.4 | 332.2  | 138.9  | 91.1   | 85.3   | 86.0   | 78.6   | 72.8   | 72.0   |
| 70°   | 3145.1 | 2472.6 | 1067.2 | 295.5  | 139.7  | 84.5   | 80.1   | 77.9   | 74.2   | 69.1   | 67.6   |
| 72.5° | 2713.7 | 2066.1 | 808.5  | 283.7  | 141.9  | 79.4   | 74.2   | 72.0   | 69.1   | 64.7   | 63.2   |
| 75°   | 2047.7 | 1611.9 | 607.1  | 264.6  | 143.3  | 73.5   | 67.6   | 66.2   | 63.2   | 58.8   | 58.1   |
| 77.5° | 1414.9 | 1195.1 | 421.9  | 223.4  | 127.9  | 66.9   | 61.0   | 59.5   | 57.3   | 52.9   | 52.2   |
| 80°   | 955.5  | 819.5  | 258.7  | 167.6  | 97.0   | 58.8   | 52.9   | 52.9   | 50.7   | 46.3   | 46.3   |
| 82.5° | 665.2  | 612.3  | 149.2  | 109.5  | 70.6   | 48.5   | 46.3   | 46.3   | 44.1   | 39.7   | 39.0   |
| 85°   | 277.8  | 370.4  | 66.9   | 59.5   | 49.2   | 38.2   | 38.2   | 39.0   | 36.8   | 33.1   | 32.3   |
| 87.5° | 9.6    | 39.7   | 26.5   | 27.9   | 29.4   | 26.5   | 29.4   | 29.4   | 28.7   | 25.7   | 25.0   |
| 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 |
| 2.5°  | 1443.6 | 1434.0 | 1404.6 | 1400.9 | 1378.9 | 1377.4 | 1387.0 | 1370.8 | 1372.3 | 1392.1 | 1389.2 |
| 5°    | 1242.2 | 1220.1 | 1219.4 | 1195.1 | 1167.9 | 1161.3 | 1137.8 | 1129.0 | 1125.3 | 1117.2 | 1146.6 |
| 7.5°  | 971.7  | 961.4  | 970.2  | 967.3  | 942.3  | 928.3  | 878.3  | 840.1  | 821.0  | 829.1  | 831.3  |
| 10°   | 690.9  | 706.3  | 729.9  | 752.7  | 735.0  | 688.7  | 667.4  | 636.5  | 632.8  | 630.6  | 645.3  |
| 12.5° | 547.6  | 529.9  | 541.0  | 549.1  | 532.1  | 512.3  | 503.5  | 490.3  | 497.6  | 514.5  | 524.1  |
| 15°   | 455.0  | 424.1  | 410.1  | 400.6  | 405.0  | 393.2  | 397.6  | 393.2  | 398.4  | 403.5  | 421.2  |
| 17.5° | 359.4  | 348.4  | 321.9  | 309.4  | 310.2  | 305.0  | 306.5  | 305.8  | 302.8  | 314.6  | 328.6  |
| 20°   | 270.5  | 267.5  | 261.7  | 252.8  | 254.3  | 250.6  | 248.4  | 235.9  | 230.8  | 234.5  | 246.2  |
| 22.5° | 210.9  | 214.6  | 218.3  | 217.6  | 221.2  | 211.7  | 202.9  | 191.8  | 190.4  | 191.1  | 194.0  |
| 25°   | 188.9  | 190.4  | 193.3  | 197.0  | 199.2  | 190.4  | 177.9  | 171.3  | 170.5  | 172.0  | 172.0  |
| 27.5° | 175.7  | 174.2  | 177.9  | 182.3  | 185.2  | 174.2  | 163.9  | 158.0  | 156.6  | 155.1  | 154.4  |
| 30°   | 161.7  | 161.7  | 164.6  | 169.1  | 171.3  | 161.7  | 152.9  | 147.0  | 143.3  | 141.1  | 140.4  |
| 32.5° | 151.4  | 152.1  | 153.6  | 156.6  | 160.2  | 150.7  | 143.3  | 138.2  | 131.6  | 129.4  | 127.9  |
| 35°   | 139.7  | 142.6  | 144.8  | 145.5  | 148.5  | 141.9  | 134.5  | 126.4  | 120.5  | 118.3  | 118.3  |
| 37.5° | 130.1  | 132.3  | 136.0  | 135.2  | 137.4  | 133.0  | 125.0  | 116.1  | 113.2  | 112.5  | 111.7  |
| 40°   | 122.7  | 122.7  | 125.7  | 128.6  | 131.6  | 123.5  | 113.9  | 109.5  | 107.3  | 105.8  | 106.6  |
| 42.5° | 116.1  | 115.4  | 115.4  | 120.5  | 125.7  | 113.9  | 105.8  | 102.9  | 102.2  | 100.7  | 101.4  |
| 45°   | 110.3  | 109.5  | 107.3  | 109.5  | 116.9  | 104.4  | 99.2   | 97.0   | 96.3   | 96.3   | 96.3   |
| 47.5° | 105.1  | 103.6  | 100.7  | 101.4  | 106.6  | 97.0   | 92.6   | 91.9   | 91.1   | 91.1   | 91.9   |
| 50°   | 99.2   | 97.8   | 95.6   | 94.8   | 96.3   | 91.9   | 88.2   | 86.7   | 86.7   | 86.7   | 88.2   |
| 52.5° | 94.1   | 93.3   | 90.4   | 89.7   | 90.4   | 87.5   | 83.8   | 83.1   | 83.1   | 83.1   | 85.3   |
| 55°   | 90.4   | 88.9   | 87.5   | 86.0   | 87.5   | 83.8   | 80.9   | 79.4   | 79.4   | 80.9   | 82.3   |
| 57.5° | 86.7   | 85.3   | 84.5   | 83.1   | 84.5   | 80.9   | 77.9   | 76.4   | 77.2   | 77.9   | 77.9   |
| 60°   | 83.1   | 81.6   | 80.9   | 79.4   | 81.6   | 77.9   | 75.0   | 74.2   | 74.2   | 73.5   | 73.5   |
| 62.5° | 79.4   | 78.6   | 77.2   | 75.7   | 78.6   | 74.2   | 72.0   | 70.6   | 69.8   | 69.8   | 69.8   |
| 65°   | 75.0   | 74.2   | 73.5   | 72.8   | 74.2   | 70.6   | 68.4   | 67.6   | 66.2   | 65.4   | 66.2   |
| 67.5° | 71.3   | 71.3   | 69.8   | 68.4   | 70.6   | 66.2   | 64.7   | 63.9   | 61.7   | 61.0   | 61.7   |
| 70°   | 66.9   | 66.9   | 65.4   | 64.7   | 67.6   | 61.7   | 60.3   | 59.5   | 58.1   | 57.3   | 57.3   |
| 72.5° | 62.5   | 62.5   | 61.0   | 60.3   | 63.9   | 57.3   | 55.9   | 55.1   | 52.9   | 52.2   | 52.2   |
| 75°   | 58.1   | 57.3   | 56.6   | 55.9   | 60.3   | 52.9   | 50.7   | 49.2   | 47.0   | 46.3   | 45.6   |
| 77.5° | 52.9   | 52.2   | 50.7   | 51.5   | 54.4   | 47.0   | 44.1   | 43.4   | 41.2   | 40.4   | 39.7   |
| 80°   | 46.3   | 45.6   | 44.8   | 46.3   | 46.3   | 41.2   | 37.5   | 36.0   | 33.8   | 32.3   | 31.6   |
| 82.5° | 39.7   | 39.0   | 39.0   | 40.4   | 38.2   | 36.0   | 31.6   | 28.7   | 25.0   | 22.8   | 22.1   |
| 85°   | 32.3   | 33.8   | 32.3   | 33.8   | 28.7   | 28.7   | 22.1   | 16.9   | 11.8   | 9.6    | 8.8    |
| 87.5° | 25.0   | 25.7   | 25.0   | 25.7   | 19.8   | 19.1   | 10.3   | 5.9    | 0.7    | 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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|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 359°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 | 1579.5 |
| 2.5°  | 1411.2 | 1412.7 | 1444.3 | 1475.9 | 1495.0 | 1542.8 | 1566.3 | 1592.8 | 1606.7 | 1622.9 |
| 5°    | 1132.7 | 1160.6 | 1186.3 | 1249.5 | 1281.9 | 1357.6 | 1412.7 | 1500.9 | 1528.8 | 1550.9 |
| 7.5°  | 855.6  | 897.4  | 929.1  | 1007.7 | 1068.7 | 1162.8 | 1259.1 | 1364.2 | 1394.3 | 1414.2 |
| 10°   | 679.9  | 718.1  | 777.6  | 839.4  | 907.7  | 1021.7 | 1126.0 | 1234.8 | 1287.7 | 1310.5 |
| 12.5° | 571.1  | 632.1  | 701.9  | 759.3  | 813.7  | 897.4  | 1029.8 | 1167.2 | 1222.3 | 1246.6 |
| 15°   | 471.1  | 539.5  | 610.8  | 681.4  | 749.0  | 843.8  | 982.7  | 1161.3 | 1231.1 | 1255.4 |
| 17.5° | 374.1  | 430.0  | 502.0  | 587.3  | 685.8  | 806.3  | 991.5  | 1223.8 | 1309.1 | 1340.7 |
| 20°   | 266.1  | 320.5  | 394.0  | 499.1  | 615.9  | 767.4  | 1012.1 | 1317.9 | 1439.2 | 1475.2 |
| 22.5° | 200.7  | 230.8  | 298.4  | 402.1  | 553.5  | 736.5  | 1044.5 | 1446.5 | 1588.4 | 1620.7 |
| 25°   | 176.4  | 186.7  | 221.2  | 321.2  | 491.0  | 708.6  | 1087.1 | 1574.4 | 1746.4 | 1781.7 |
| 27.5° | 156.6  | 162.4  | 180.1  | 258.0  | 444.7  | 679.9  | 1137.8 | 1712.6 | 1882.4 | 1928.7 |
| 30°   | 141.1  | 148.5  | 163.2  | 216.1  | 399.8  | 638.7  | 1184.1 | 1836.8 | 1997.8 | 2033.0 |
| 32.5° | 129.4  | 137.4  | 150.7  | 195.5  | 361.6  | 607.9  | 1210.6 | 1929.4 | 2096.3 | 2128.6 |
| 35°   | 121.3  | 128.6  | 141.9  | 177.1  | 327.8  | 586.5  | 1218.6 | 2021.3 | 2216.8 | 2249.9 |
| 37.5° | 113.9  | 121.3  | 133.0  | 158.8  | 304.3  | 558.6  | 1231.1 | 2130.8 | 2356.4 | 2399.8 |
| 40°   | 108.8  | 114.7  | 125.7  | 146.3  | 272.0  | 528.5  | 1245.8 | 2258.7 | 2492.4 | 2535.8 |
| 42.5° | 103.6  | 110.3  | 119.8  | 147.0  | 239.6  | 502.7  | 1255.4 | 2357.2 | 2600.5 | 2641.6 |
| 45°   | 99.2   | 106.6  | 117.6  | 144.1  | 215.4  | 479.2  | 1251.0 | 2439.5 | 2699.0 | 2730.6 |
| 47.5° | 94.8   | 103.6  | 123.5  | 138.2  | 208.0  | 457.9  | 1254.7 | 2518.9 | 2769.5 | 2794.5 |
| 50°   | 91.9   | 102.9  | 132.3  | 129.4  | 209.5  | 448.4  | 1289.9 | 2613.7 | 2822.4 | 2832.0 |
| 52.5° | 89.7   | 105.1  | 125.0  | 116.9  | 209.5  | 443.9  | 1357.6 | 2766.6 | 2914.3 | 2907.7 |
| 55°   | 86.0   | 104.4  | 116.9  | 105.8  | 200.7  | 446.2  | 1421.5 | 2968.7 | 3134.8 | 3098.1 |
| 57.5° | 83.1   | 100.0  | 105.1  | 97.8   | 180.1  | 446.9  | 1516.3 | 3139.2 | 3308.3 | 3313.4 |
| 60°   | 79.4   | 107.3  | 91.1   | 91.1   | 154.4  | 443.2  | 1600.1 | 3136.3 | 3339.9 | 3373.7 |
| 62.5° | 75.7   | 105.1  | 81.6   | 84.5   | 136.7  | 429.2  | 1650.8 | 2953.3 | 3223.0 | 3285.5 |
| 65°   | 71.3   | 83.1   | 75.0   | 78.6   | 129.4  | 394.7  | 1578.8 | 2726.2 | 3065.0 | 3131.9 |
| 67.5° | 66.2   | 68.4   | 68.4   | 72.8   | 126.4  | 342.5  | 1397.3 | 2475.5 | 2866.5 | 2947.4 |
| 70°   | 60.3   | 61.0   | 62.5   | 69.1   | 117.6  | 294.7  | 1137.8 | 2208.7 | 2653.4 | 2755.6 |
| 72.5° | 54.4   | 55.1   | 55.1   | 62.5   | 110.3  | 254.3  | 805.6  | 1750.1 | 2215.3 | 2322.6 |
| 75°   | 47.8   | 48.5   | 47.8   | 54.4   | 96.3   | 190.4  | 478.5  | 1106.9 | 1321.6 | 1442.8 |
| 77.5° | 40.4   | 40.4   | 39.0   | 42.6   | 66.2   | 120.5  | 261.7  | 672.5  | 804.1  | 879.1  |
| 80°   | 33.1   | 30.1   | 25.0   | 25.7   | 36.0   | 69.1   | 116.9  | 385.9  | 441.0  | 460.1  |
| 82.5° | 22.1   | 16.9   | 10.3   | 9.6    | 11.8   | 19.1   | 27.2   | 152.9  | 140.4  | 133.0  |
| 85°   | 4.4    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    |
| 87.5° | 0.0    | 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    |

(END OF REPORT)