

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: P671962

Luminaire Tested: **CCP-SA-2B-735-U-AFL**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671962  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2B-735-U-AFL  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ AFL  
distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6873.9 lumens  
Efficiency: N/A  
Efficacy: 149.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

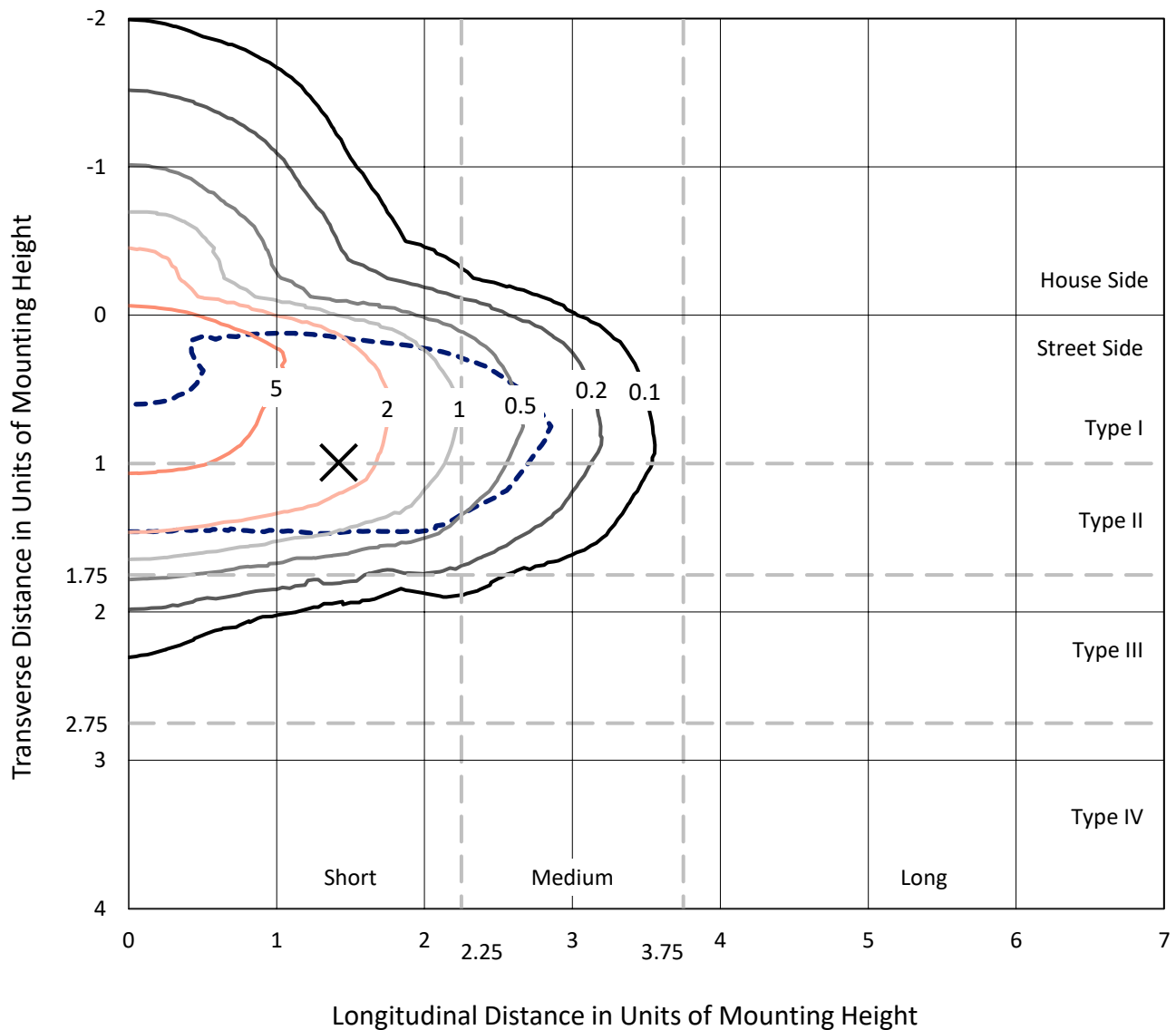
Input Watts (W): 46  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

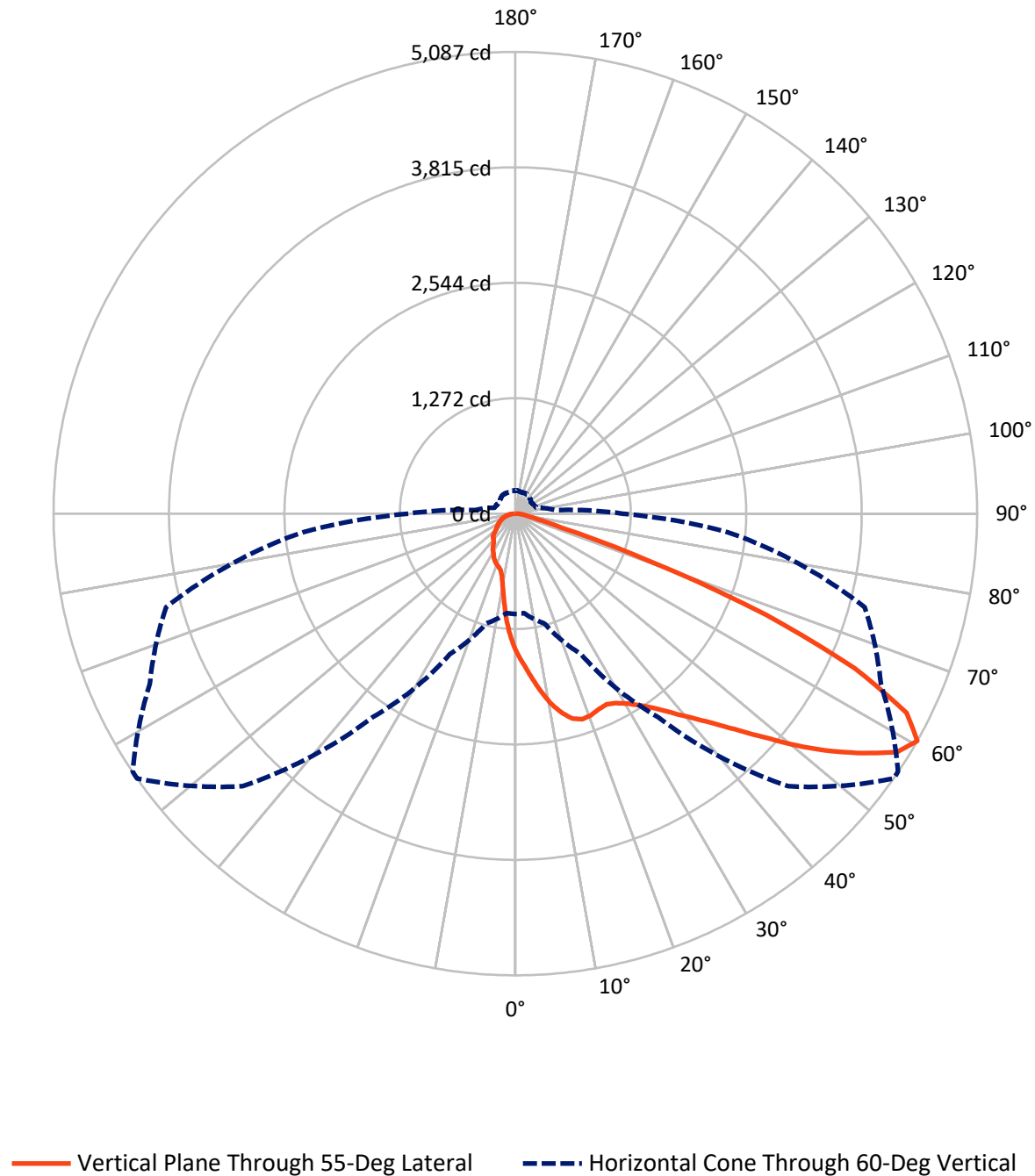


Based on 15 foot mounting height. Maximum calculated value = 9.5 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 988.1    | 0.0    | 988.1  |
|                    | % Fixture | 14.4     | 0.0    | 14.4   |
| <b>Street Side</b> | Lumens    | 5885.8   | 0.0    | 5885.8 |
|                    | % Fixture | 85.6     | 0.0    | 85.6   |
| <b>Total</b>       | Lumens    | 6873.9   | 0.0    | 6873.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 142.7  | 2.1       |
| 10°-20°   | 404.2  | 5.9       |
| 20°-30°   | 658.1  | 9.6       |
| 30°-40°   | 983.6  | 14.3      |
| 40°-50°   | 1445.7 | 21.0      |
| 50°-60°   | 1694.4 | 24.6      |
| 60°-70°   | 1117.2 | 16.3      |
| 70°-80°   | 355.7  | 5.2       |
| 80°-90°   | 72.3   | 1.1       |
| 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°    | 6873.9 | 100.0     |
| 0°-180°   | 6873.9 | 100.0     |

**Coefficient of Utilization**



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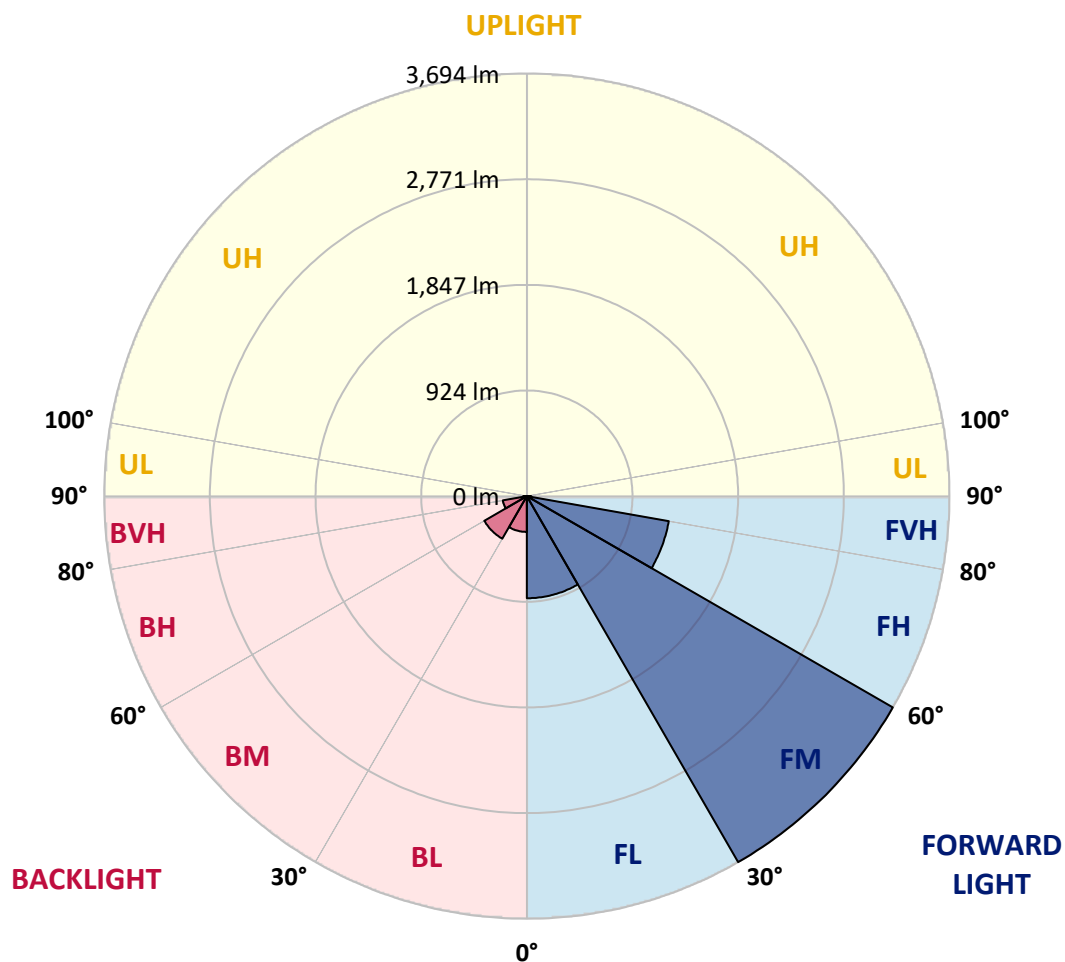
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 892.2  | 13.0      |                         |      |         |
| FM   | (30°-60°)   | 3694.2 | 53.7      |                         |      |         |
| FH   | (60°-80°)   | 1259.7 | 18.3      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 39.7   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 312.8  | 4.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 429.5  | 6.2       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 213.2  | 3.1       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 32.7   | 0.5       |                         |      | 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 II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 56°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1524.5 | 1524.5 | 1524.5 | 1524.5 | 1524.5 | 1524.5 | 1524.5 | 1524.5 | 1524.5 | 1524.5 | 1524.5 |
| 2.5°  | 1774.1 | 1767.6 | 1767.6 | 1751.2 | 1726.7 | 1692.9 | 1652.5 | 1642.6 | 1627.1 | 1587.8 | 1536.9 |
| 5°    | 2044.6 | 2037.6 | 2028.2 | 1999.3 | 1953.9 | 1886.2 | 1801.0 | 1785.5 | 1730.2 | 1649.0 | 1557.4 |
| 7.5°  | 2223.5 | 2219.5 | 2216.5 | 2191.6 | 2146.7 | 2080.0 | 1965.9 | 1948.4 | 1854.8 | 1720.3 | 1576.8 |
| 10°   | 2205.0 | 2217.0 | 2237.9 | 2255.3 | 2264.3 | 2229.9 | 2122.8 | 2102.4 | 1986.3 | 1803.0 | 1605.7 |
| 12.5° | 2032.1 | 2049.1 | 2087.9 | 2159.2 | 2241.4 | 2307.6 | 2246.9 | 2235.4 | 2126.8 | 1890.7 | 1642.1 |
| 15°   | 1903.6 | 1910.6 | 1929.5 | 1982.3 | 2104.9 | 2281.7 | 2343.0 | 2332.6 | 2257.8 | 2003.2 | 1683.9 |
| 17.5° | 1863.8 | 1866.7 | 1871.2 | 1888.7 | 1972.4 | 2180.6 | 2382.4 | 2392.3 | 2384.9 | 2120.3 | 1731.2 |
| 20°   | 1883.7 | 1885.7 | 1886.2 | 1889.2 | 1929.0 | 2095.9 | 2371.9 | 2388.9 | 2496.5 | 2237.4 | 1778.1 |
| 22.5° | 1960.4 | 1957.9 | 1954.4 | 1943.0 | 1965.4 | 2081.0 | 2344.0 | 2370.9 | 2582.7 | 2344.0 | 1821.4 |
| 25°   | 2094.4 | 2090.9 | 2066.5 | 2042.6 | 2052.1 | 2134.8 | 2329.1 | 2358.0 | 2649.9 | 2444.7 | 1853.3 |
| 27.5° | 2253.8 | 2250.4 | 2225.4 | 2180.1 | 2170.1 | 2224.4 | 2363.9 | 2381.9 | 2699.2 | 2533.8 | 1867.2 |
| 30°   | 2419.2 | 2419.2 | 2388.4 | 2336.0 | 2304.2 | 2327.1 | 2428.2 | 2442.7 | 2736.6 | 2620.0 | 1876.2 |
| 32.5° | 2599.6 | 2604.6 | 2556.7 | 2497.0 | 2461.6 | 2448.1 | 2518.4 | 2530.8 | 2790.9 | 2721.6 | 1895.1 |
| 35°   | 2831.3 | 2820.3 | 2762.0 | 2683.3 | 2626.5 | 2596.1 | 2630.0 | 2644.4 | 2870.6 | 2848.2 | 1925.5 |
| 37.5° | 3091.8 | 3072.4 | 3000.6 | 2906.5 | 2807.3 | 2756.5 | 2778.9 | 2782.4 | 2988.7 | 3013.1 | 1980.8 |
| 40°   | 3307.0 | 3303.5 | 3242.8 | 3153.6 | 3028.5 | 2960.3 | 2949.3 | 2951.3 | 3152.6 | 3208.4 | 2064.5 |
| 42.5° | 3488.4 | 3475.4 | 3464.5 | 3433.1 | 3300.6 | 3188.5 | 3143.6 | 3144.1 | 3330.4 | 3410.2 | 2148.7 |
| 45°   | 3568.6 | 3566.1 | 3598.5 | 3679.2 | 3584.0 | 3452.0 | 3388.2 | 3397.2 | 3534.2 | 3617.4 | 2229.9 |
| 47.5° | 3534.2 | 3536.2 | 3622.9 | 3834.6 | 3890.9 | 3789.8 | 3676.7 | 3671.2 | 3731.5 | 3776.3 | 2301.7 |
| 50°   | 3227.3 | 3259.7 | 3494.4 | 3849.1 | 4092.2 | 4142.5 | 4015.0 | 3994.5 | 3904.4 | 3902.9 | 2345.5 |
| 52.5° | 2995.7 | 2994.2 | 3138.1 | 3702.1 | 4163.4 | 4460.9 | 4346.3 | 4300.4 | 4047.3 | 3974.1 | 2349.0 |
| 55°   | 2682.8 | 2680.8 | 2787.9 | 3272.2 | 4021.9 | 4683.0 | 4658.6 | 4601.3 | 4178.4 | 3997.5 | 2325.1 |
| 57.5° | 2031.6 | 2069.5 | 2176.1 | 2619.5 | 3573.6 | 4647.7 | 4957.1 | 4909.2 | 4306.4 | 3987.1 | 2320.6 |
| 60°   | 1105.5 | 1101.0 | 1255.5 | 1707.3 | 2736.1 | 4246.1 | 5087.1 | 5084.6 | 4442.4 | 3983.1 | 2348.0 |
| 62.5° | 509.7  | 504.7  | 535.6  | 760.2  | 1568.8 | 3401.7 | 4836.0 | 4871.9 | 4568.5 | 3946.7 | 2345.5 |
| 65°   | 381.1  | 368.2  | 326.3  | 353.7  | 600.3  | 2030.6 | 4107.6 | 4203.3 | 4374.2 | 3797.3 | 2236.9 |
| 67.5° | 339.8  | 327.3  | 278.5  | 261.1  | 301.4  | 716.4  | 2979.7 | 3067.9 | 3657.8 | 3517.3 | 2061.0 |
| 70°   | 311.4  | 300.4  | 251.6  | 224.2  | 226.2  | 317.4  | 1559.9 | 1733.2 | 2680.8 | 2935.4 | 1756.6 |
| 72.5° | 284.0  | 274.5  | 230.2  | 197.3  | 190.3  | 209.7  | 531.6  | 641.2  | 1667.5 | 2139.3 | 1309.8 |
| 75°   | 255.1  | 246.1  | 207.2  | 176.9  | 163.4  | 155.4  | 253.1  | 272.5  | 881.8  | 1181.2 | 703.0  |
| 77.5° | 221.7  | 216.7  | 184.8  | 155.9  | 144.5  | 117.6  | 168.4  | 176.9  | 377.6  | 463.8  | 334.8  |
| 80°   | 192.8  | 188.8  | 164.9  | 141.5  | 129.5  | 90.7   | 116.1  | 122.1  | 186.3  | 231.7  | 187.3  |
| 82.5° | 125.5  | 135.5  | 136.5  | 121.6  | 114.1  | 72.7   | 76.7   | 81.2   | 123.6  | 136.5  | 81.7   |
| 85°   | 51.8   | 62.8   | 94.2   | 83.7   | 79.2   | 61.8   | 50.8   | 51.8   | 75.7   | 79.7   | 29.4   |
| 87.5° | 23.4   | 25.9   | 46.3   | 46.8   | 40.9   | 23.4   | 25.4   | 27.9   | 38.9   | 38.4   | 13.0   |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1524.5 | 1524.5 | 1524.5 | 1524.5 | 1524.5 | 1524.5 | 1524.5 | 1524.5 | 1524.5 | 1524.5 | 1524.5 |
| 2.5°  | 1523.0 | 1500.1 | 1459.2 | 1406.9 | 1369.5 | 1342.1 | 1312.3 | 1290.3 | 1265.9 | 1244.5 | 1248.0 |
| 5°    | 1519.5 | 1475.2 | 1383.5 | 1286.3 | 1191.7 | 1114.0 | 1049.2 | 1001.4 | 952.1  | 932.6  | 930.1  |
| 7.5°  | 1522.5 | 1447.3 | 1296.8 | 1137.9 | 993.9  | 894.8  | 819.5  | 774.2  | 745.8  | 729.4  | 730.4  |
| 10°   | 1521.5 | 1420.9 | 1203.1 | 983.9  | 826.5  | 735.8  | 690.0  | 675.1  | 672.6  | 674.6  | 677.5  |
| 12.5° | 1523.0 | 1385.0 | 1098.0 | 845.4  | 706.4  | 660.1  | 662.1  | 675.6  | 684.0  | 689.5  | 693.0  |
| 15°   | 1529.5 | 1355.6 | 990.4  | 736.3  | 643.7  | 645.2  | 666.6  | 687.5  | 700.0  | 705.9  | 708.9  |
| 17.5° | 1538.9 | 1318.7 | 894.8  | 653.6  | 617.3  | 640.2  | 668.1  | 690.5  | 700.0  | 703.5  | 705.9  |
| 20°   | 1539.9 | 1276.4 | 798.1  | 596.8  | 599.8  | 629.7  | 654.1  | 672.1  | 684.0  | 688.0  | 690.0  |
| 22.5° | 1535.4 | 1219.1 | 699.0  | 555.5  | 579.9  | 609.8  | 630.7  | 651.1  | 635.2  | 622.2  | 618.8  |
| 25°   | 1516.5 | 1146.8 | 614.3  | 521.6  | 555.0  | 582.9  | 606.8  | 584.4  | 576.9  | 566.9  | 567.9  |
| 27.5° | 1475.7 | 1056.7 | 534.6  | 489.7  | 525.6  | 565.5  | 548.0  | 545.0  | 535.6  | 525.6  | 525.6  |
| 30°   | 1421.9 | 961.5  | 467.8  | 456.3  | 490.2  | 510.2  | 514.1  | 509.7  | 504.2  | 491.2  | 492.2  |
| 32.5° | 1373.5 | 860.9  | 420.5  | 428.4  | 467.8  | 467.8  | 485.2  | 485.2  | 465.3  | 428.9  | 428.9  |
| 35°   | 1325.7 | 766.2  | 385.6  | 405.0  | 430.9  | 439.4  | 463.3  | 431.9  | 403.5  | 387.1  | 386.1  |
| 37.5° | 1288.3 | 685.5  | 362.7  | 385.1  | 395.1  | 416.5  | 417.0  | 394.1  | 384.6  | 369.7  | 368.2  |
| 40°   | 1266.4 | 617.8  | 348.7  | 375.1  | 376.1  | 396.1  | 363.2  | 369.7  | 367.7  | 356.2  | 354.7  |
| 42.5° | 1254.5 | 565.5  | 338.3  | 366.7  | 361.7  | 342.3  | 336.3  | 347.2  | 350.7  | 344.8  | 342.3  |
| 45°   | 1245.0 | 524.6  | 329.8  | 337.3  | 350.2  | 314.9  | 312.4  | 320.8  | 328.3  | 327.8  | 325.8  |
| 47.5° | 1240.0 | 496.2  | 322.3  | 318.8  | 321.3  | 298.4  | 293.4  | 297.4  | 306.9  | 312.9  | 312.4  |
| 50°   | 1220.6 | 474.3  | 311.4  | 299.9  | 284.0  | 284.0  | 281.5  | 281.5  | 292.9  | 304.9  | 305.9  |
| 52.5° | 1186.2 | 448.4  | 295.4  | 282.0  | 263.5  | 271.5  | 272.5  | 270.5  | 282.5  | 295.4  | 296.4  |
| 55°   | 1148.3 | 428.9  | 274.0  | 265.5  | 246.6  | 260.1  | 264.5  | 262.5  | 270.5  | 279.5  | 279.0  |
| 57.5° | 1148.8 | 428.4  | 255.6  | 249.1  | 230.7  | 245.6  | 256.6  | 257.1  | 256.6  | 263.0  | 263.0  |
| 60°   | 1177.7 | 438.4  | 241.1  | 227.2  | 212.2  | 230.2  | 248.1  | 248.1  | 244.6  | 254.1  | 255.1  |
| 62.5° | 1186.2 | 437.4  | 232.2  | 206.3  | 195.8  | 216.2  | 235.6  | 238.6  | 236.1  | 249.6  | 251.1  |
| 65°   | 1111.5 | 414.0  | 223.2  | 187.3  | 180.8  | 200.8  | 220.2  | 228.7  | 226.2  | 243.6  | 245.6  |
| 67.5° | 1007.9 | 383.6  | 209.2  | 170.4  | 165.4  | 185.8  | 204.3  | 213.2  | 212.7  | 235.6  | 236.6  |
| 70°   | 868.9  | 346.2  | 191.8  | 152.9  | 150.5  | 168.4  | 184.8  | 194.3  | 198.8  | 225.2  | 224.7  |
| 72.5° | 673.1  | 296.9  | 165.4  | 134.5  | 134.0  | 150.5  | 164.9  | 175.4  | 183.8  | 209.2  | 209.2  |
| 75°   | 433.9  | 233.7  | 135.0  | 116.6  | 114.6  | 130.0  | 145.0  | 156.9  | 182.8  | 223.2  | 222.7  |
| 77.5° | 265.0  | 178.4  | 108.6  | 97.1   | 96.7   | 110.6  | 125.5  | 146.0  | 199.8  | 198.8  | 193.3  |
| 80°   | 158.9  | 128.0  | 86.7   | 77.7   | 77.7   | 90.7   | 107.1  | 156.4  | 165.9  | 189.3  | 178.9  |
| 82.5° | 82.7   | 78.7   | 64.8   | 57.3   | 59.8   | 71.2   | 97.6   | 125.0  | 135.5  | 115.1  | 105.6  |
| 85°   | 33.9   | 41.8   | 39.9   | 36.4   | 37.9   | 49.3   | 94.2   | 100.1  | 80.2   | 84.2   | 84.7   |
| 87.5° | 11.5   | 18.4   | 18.4   | 14.4   | 15.9   | 34.9   | 55.8   | 33.4   | 40.4   | 23.9   | 17.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)