

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: P553667

Luminaire Tested: **ARB-B3-LED-D1-T3-7030**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553667  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34666)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/12/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ARB-B3-LED-D1-T3-7030  
Description: ARBOR OUTDOOR ARCHITECTURAL POST TOP  
70 CRI, 3000K LEDS AND TYPE III OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7823 lumens  
Efficiency: N/A  
Efficacy: 79.0 lumens/watt  
Luminous Opening: Circular (Dia: 1.62' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

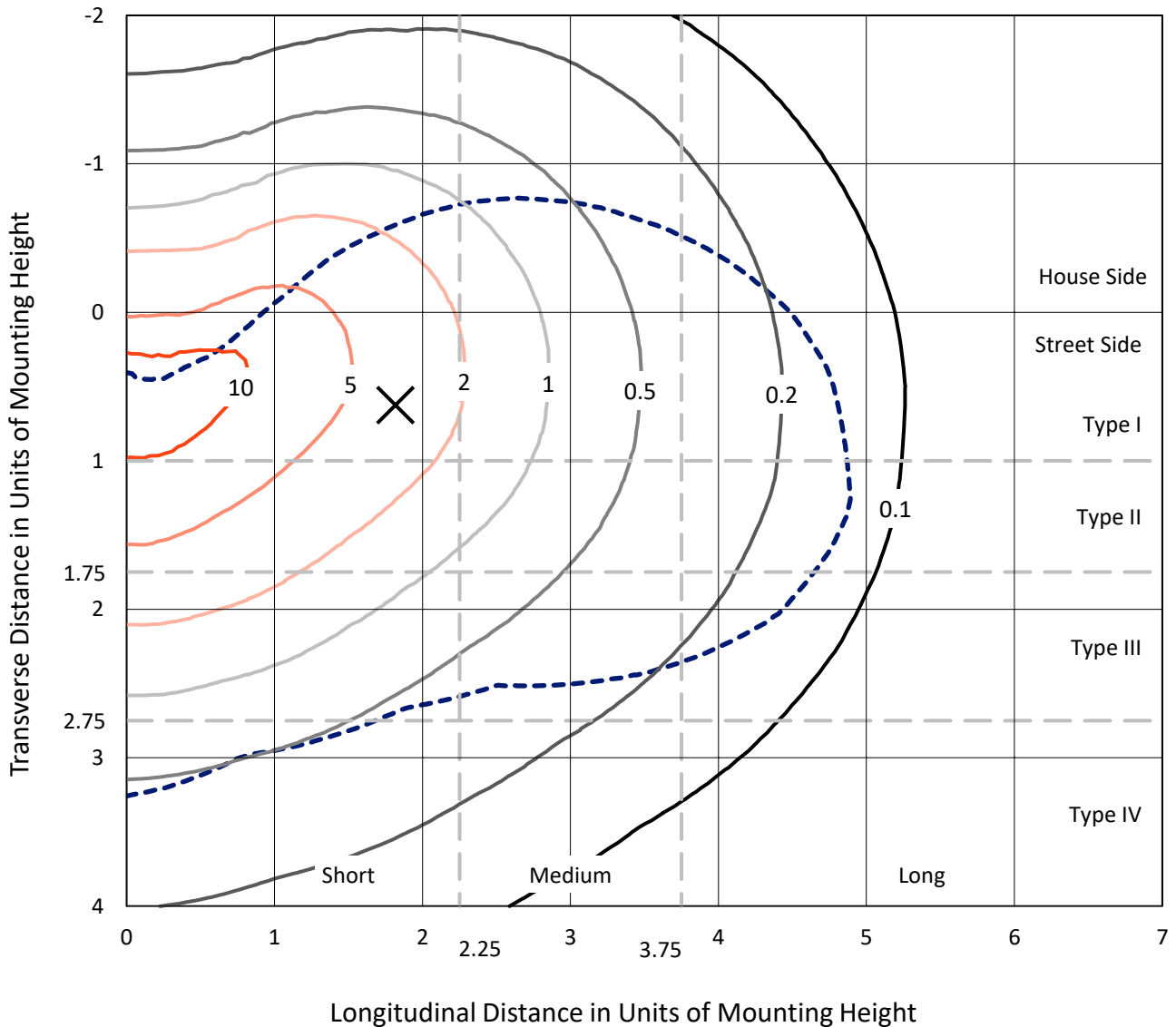
Input Watts (W): 99  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

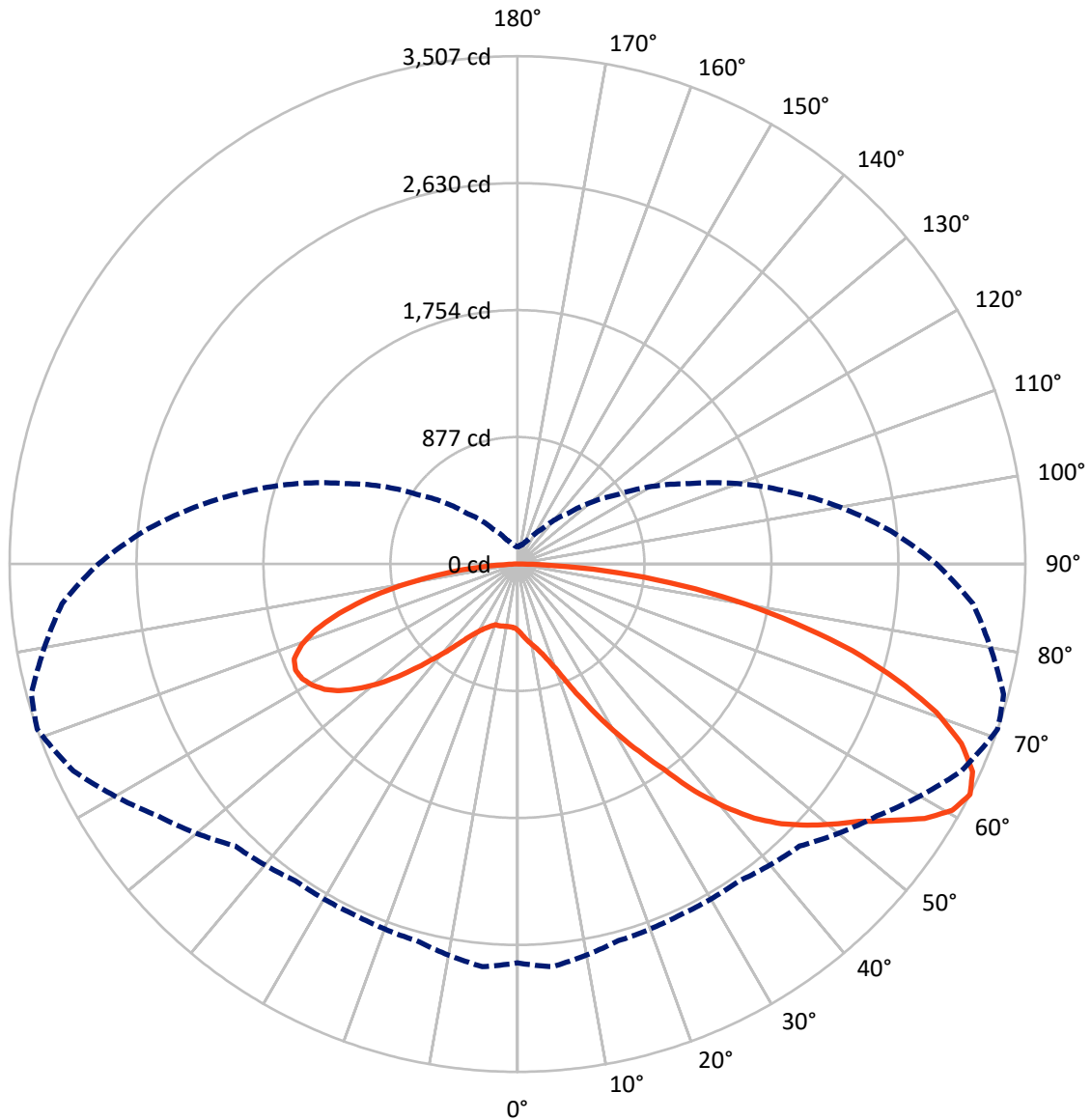
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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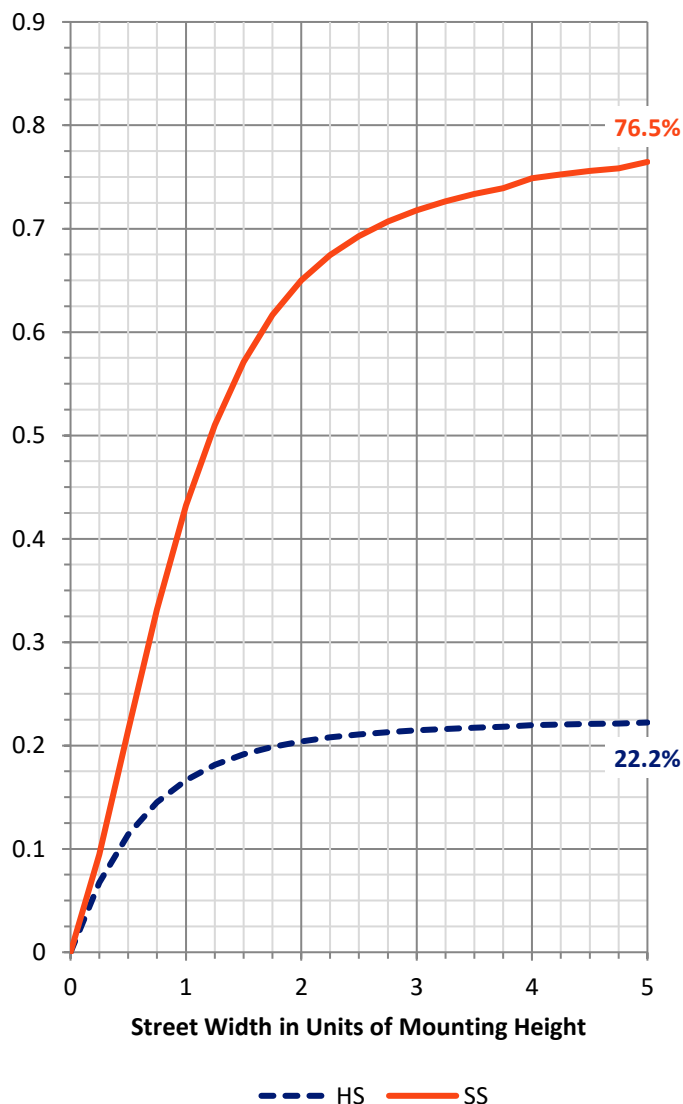
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1759.8   | 0.0    | 1759.8 |
|                    | % Fixture | 22.5     | 0.0    | 22.5   |
| <b>Street Side</b> | Lumens    | 6063.2   | 0.0    | 6063.2 |
|                    | % Fixture | 77.5     | 0.0    | 77.5   |
| <b>Total</b>       | Lumens    | 7823.0   | 0.0    | 7823.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 47.3   | 0.6       |
| 10°-20°   | 176.6  | 2.3       |
| 20°-30°   | 414.5  | 5.3       |
| 30°-40°   | 787.3  | 10.1      |
| 40°-50°   | 1232.1 | 15.7      |
| 50°-60°   | 1685.3 | 21.5      |
| 60°-70°   | 1808.6 | 23.1      |
| 70°-80°   | 1298.6 | 16.6      |
| 80°-90°   | 372.6  | 4.8       |
| 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°    | 7823.0 | 100.0     |
| 0°-180°   | 7823.0 | 100.0     |

**Coefficient of Utilization**



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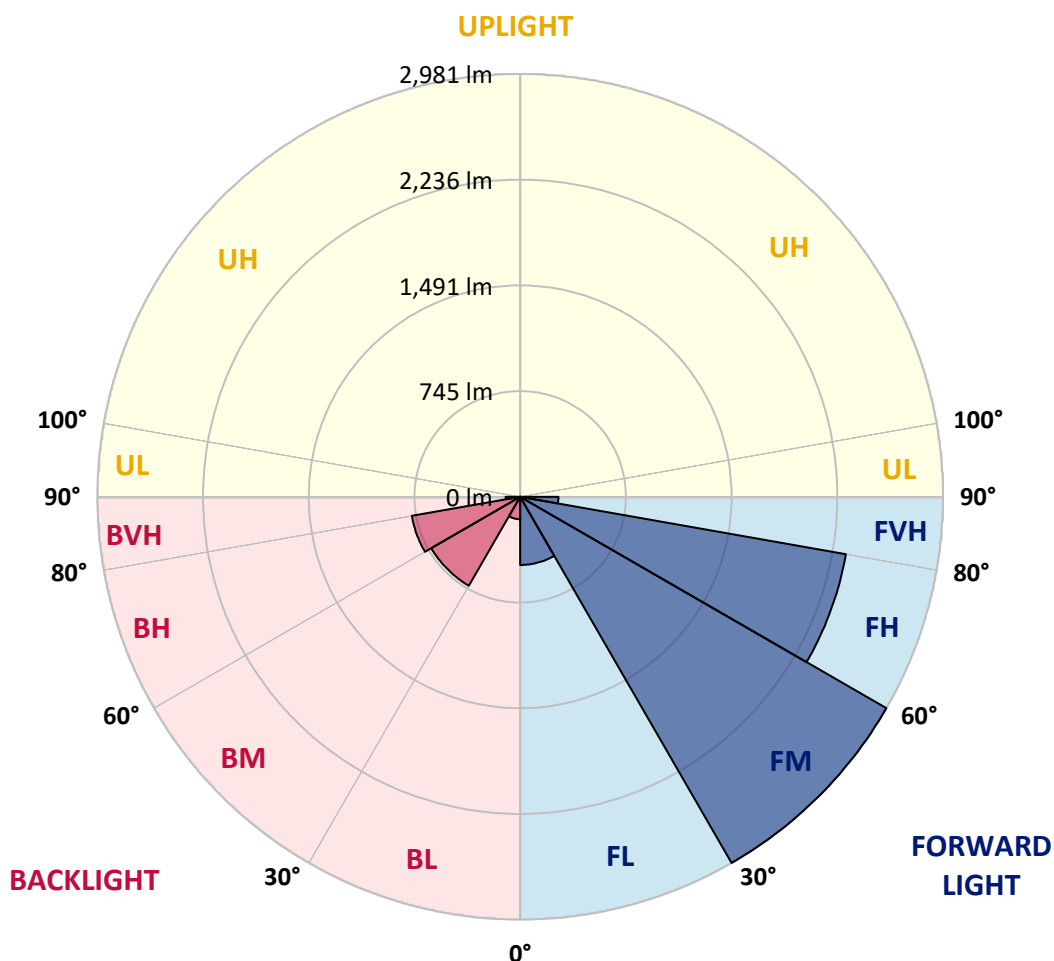
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 480.5  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 2981.3 | 38.1      |                         |      |         |
| FH   | (60°-80°)   | 2331.8 | 29.8      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 269.7  | 3.4       |                         |      | G3/500  |
| BL   | (0°-30°)    | 158.0  | 2.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 723.4  | 9.2       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 775.5  | 9.9       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 102.9  | 1.3       |                         |      | G2/225  |
| 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°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 71°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 458.2  | 458.2  | 458.2  | 458.2  | 458.2  | 458.2  | 458.2  | 458.2  | 458.2  | 458.2  | 458.2  |
| 2.5°  | 530.8  | 528.9  | 528.0  | 523.4  | 516.8  | 506.6  | 499.1  | 485.2  | 480.5  | 474.0  | 464.7  |
| 5°    | 598.8  | 596.9  | 596.0  | 587.6  | 575.5  | 561.5  | 543.8  | 524.3  | 509.4  | 502.9  | 480.5  |
| 7.5°  | 676.1  | 671.4  | 662.1  | 647.2  | 627.7  | 604.4  | 582.0  | 555.9  | 538.3  | 526.1  | 496.3  |
| 10°   | 771.1  | 766.4  | 749.6  | 723.6  | 691.9  | 655.6  | 618.3  | 586.7  | 568.1  | 554.1  | 514.0  |
| 12.5° | 867.0  | 862.3  | 839.0  | 806.5  | 762.7  | 712.4  | 662.1  | 621.1  | 601.6  | 583.9  | 536.4  |
| 15°   | 1091.4 | 1089.5 | 1012.3 | 933.1  | 858.6  | 796.2  | 736.6  | 675.1  | 643.5  | 623.0  | 565.3  |
| 17.5° | 1481.6 | 1454.6 | 1331.7 | 1162.2 | 1018.8 | 915.4  | 839.0  | 747.8  | 704.0  | 672.4  | 596.0  |
| 20°   | 1673.4 | 1659.5 | 1559.8 | 1424.8 | 1256.2 | 1095.1 | 983.4  | 868.8  | 780.4  | 732.0  | 625.8  |
| 22.5° | 1791.7 | 1782.4 | 1680.9 | 1584.0 | 1475.1 | 1320.5 | 1151.9 | 1008.5 | 899.6  | 823.2  | 682.6  |
| 25°   | 1859.7 | 1856.0 | 1788.9 | 1706.0 | 1617.6 | 1523.5 | 1365.2 | 1177.1 | 1030.9 | 938.7  | 753.4  |
| 27.5° | 1894.1 | 1896.9 | 1840.1 | 1790.8 | 1759.1 | 1697.6 | 1579.4 | 1338.2 | 1190.1 | 1079.3 | 844.6  |
| 30°   | 2036.6 | 2036.6 | 1970.5 | 1891.3 | 1890.4 | 1869.9 | 1772.1 | 1511.4 | 1362.4 | 1245.1 | 971.3  |
| 32.5° | 2272.2 | 2297.4 | 2186.5 | 2059.9 | 2033.8 | 2039.4 | 1953.7 | 1709.8 | 1542.1 | 1436.0 | 1134.2 |
| 35°   | 2567.4 | 2583.3 | 2439.8 | 2271.3 | 2215.4 | 2179.1 | 2119.5 | 1918.3 | 1739.6 | 1629.7 | 1317.7 |
| 37.5° | 2748.1 | 2770.4 | 2651.2 | 2490.1 | 2387.7 | 2323.4 | 2275.9 | 2124.2 | 1990.1 | 1876.4 | 1537.5 |
| 40°   | 2896.1 | 2915.7 | 2793.7 | 2619.6 | 2531.1 | 2446.4 | 2415.6 | 2316.0 | 2204.2 | 2102.7 | 1747.0 |
| 42.5° | 2927.8 | 2953.0 | 2811.4 | 2691.3 | 2591.6 | 2533.9 | 2513.4 | 2474.3 | 2399.8 | 2296.4 | 1950.9 |
| 45°   | 2686.6 | 2732.3 | 2748.1 | 2671.7 | 2619.6 | 2596.3 | 2595.4 | 2613.1 | 2558.1 | 2471.5 | 2152.1 |
| 47.5° | 2661.5 | 2711.8 | 2678.2 | 2695.9 | 2636.3 | 2629.8 | 2653.1 | 2729.5 | 2695.0 | 2636.3 | 2329.0 |
| 50°   | 2949.2 | 2967.9 | 2787.2 | 2792.8 | 2710.8 | 2713.6 | 2738.8 | 2834.7 | 2823.5 | 2784.4 | 2487.3 |
| 52.5° | 3093.6 | 3119.6 | 2875.7 | 2811.4 | 2811.4 | 2826.3 | 2858.0 | 2957.6 | 2953.0 | 2940.8 | 2636.3 |
| 55°   | 3314.3 | 3333.8 | 3074.0 | 2889.6 | 2876.6 | 2911.0 | 2996.7 | 3109.4 | 3124.3 | 3104.7 | 2804.0 |
| 57.5° | 3190.4 | 3227.7 | 3062.8 | 2924.1 | 2879.4 | 2921.3 | 3095.4 | 3269.6 | 3315.2 | 3270.5 | 2966.9 |
| 60°   | 2993.9 | 3025.6 | 2905.5 | 2830.0 | 2811.4 | 2871.0 | 3103.8 | 3375.7 | 3452.1 | 3408.3 | 3099.2 |
| 62.5° | 2754.6 | 2790.9 | 2693.1 | 2670.8 | 2671.7 | 2754.6 | 3032.1 | 3382.3 | 3507.0 | 3475.4 | 3157.8 |
| 65°   | 2465.9 | 2508.8 | 2454.7 | 2478.0 | 2490.1 | 2613.1 | 2893.4 | 3308.7 | 3454.0 | 3446.5 | 3144.8 |
| 67.5° | 2227.5 | 2251.7 | 2201.4 | 2255.5 | 2272.2 | 2413.8 | 2716.4 | 3160.6 | 3305.9 | 3306.8 | 3042.4 |
| 70°   | 2003.1 | 2019.9 | 1957.5 | 2010.5 | 2040.3 | 2190.3 | 2509.7 | 2935.3 | 3069.4 | 3079.6 | 2857.0 |
| 72.5° | 1788.9 | 1765.6 | 1697.6 | 1741.4 | 1791.7 | 1943.5 | 2268.5 | 2646.6 | 2746.2 | 2766.7 | 2593.5 |
| 75°   | 1534.7 | 1501.2 | 1421.1 | 1470.4 | 1516.1 | 1663.2 | 1977.9 | 2285.3 | 2391.4 | 2388.6 | 2257.3 |
| 77.5° | 1272.1 | 1234.8 | 1161.3 | 1192.9 | 1240.4 | 1374.5 | 1644.6 | 1883.9 | 1956.5 | 2002.2 | 1860.6 |
| 80°   | 960.1  | 943.3  | 887.5  | 905.2  | 939.6  | 1056.0 | 1288.8 | 1467.6 | 1518.8 | 1520.7 | 1428.5 |
| 82.5° | 679.8  | 659.3  | 626.7  | 623.0  | 661.2  | 751.5  | 923.8  | 1033.7 | 1060.7 | 1073.7 | 969.4  |
| 85°   | 365.0  | 371.6  | 365.0  | 333.4  | 376.2  | 438.6  | 535.5  | 601.6  | 612.8  | 632.3  | 549.4  |
| 87.5° | 100.6  | 88.5   | 98.7   | 95.0   | 102.4  | 116.4  | 140.6  | 173.2  | 176.0  | 179.7  | 152.7  |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 458.2  | 458.2  | 458.2  | 458.2  | 458.2 | 458.2 | 458.2 | 458.2 | 458.2 | 458.2 | 458.2 |
| 2.5°  | 459.1  | 454.4  | 445.1  | 438.6  | 433.0 | 428.4 | 426.5 | 424.6 | 422.8 | 421.9 | 422.8 |
| 5°    | 470.3  | 461.0  | 444.2  | 430.2  | 420.0 | 410.7 | 405.1 | 399.5 | 395.8 | 394.8 | 394.8 |
| 7.5°  | 480.5  | 467.5  | 444.2  | 424.6  | 408.8 | 394.8 | 382.7 | 374.4 | 367.8 | 365.0 | 363.2 |
| 10°   | 494.5  | 477.7  | 447.0  | 421.9  | 398.6 | 379.0 | 364.1 | 352.9 | 345.5 | 343.6 | 339.9 |
| 12.5° | 511.2  | 489.8  | 451.7  | 420.0  | 391.1 | 366.9 | 349.2 | 336.2 | 327.8 | 322.2 | 320.3 |
| 15°   | 533.6  | 504.7  | 458.2  | 418.1  | 384.6 | 357.6 | 337.1 | 319.4 | 306.4 | 298.0 | 298.0 |
| 17.5° | 555.0  | 520.6  | 465.6  | 416.3  | 379.0 | 347.4 | 322.2 | 302.7 | 288.7 | 282.2 | 280.3 |
| 20°   | 573.6  | 532.7  | 467.5  | 411.6  | 370.6 | 335.2 | 306.4 | 286.8 | 273.8 | 266.3 | 266.3 |
| 22.5° | 614.6  | 565.3  | 485.2  | 419.1  | 369.7 | 326.9 | 297.1 | 274.7 | 258.9 | 250.5 | 249.6 |
| 25°   | 671.4  | 605.3  | 508.5  | 429.3  | 369.7 | 323.1 | 288.7 | 261.7 | 244.0 | 236.5 | 235.6 |
| 27.5° | 748.7  | 663.0  | 537.3  | 443.3  | 371.6 | 319.4 | 278.4 | 250.5 | 231.9 | 222.6 | 222.6 |
| 30°   | 847.4  | 743.1  | 576.4  | 460.0  | 375.3 | 314.8 | 269.1 | 237.5 | 216.0 | 204.9 | 204.9 |
| 32.5° | 973.1  | 832.5  | 629.5  | 480.5  | 379.9 | 311.0 | 260.7 | 224.4 | 202.1 | 190.9 | 190.0 |
| 35°   | 1145.4 | 973.1  | 701.2  | 514.0  | 389.3 | 307.3 | 251.4 | 213.3 | 190.9 | 180.7 | 179.7 |
| 37.5° | 1334.5 | 1125.9 | 799.0  | 557.8  | 408.8 | 309.2 | 247.7 | 207.7 | 184.4 | 174.1 | 173.2 |
| 40°   | 1542.1 | 1303.7 | 912.6  | 614.6  | 434.0 | 318.5 | 248.6 | 207.7 | 183.5 | 173.2 | 172.3 |
| 42.5° | 1736.8 | 1496.5 | 1031.8 | 685.4  | 467.5 | 336.2 | 255.2 | 206.7 | 181.6 | 169.5 | 168.6 |
| 45°   | 1916.5 | 1666.9 | 1171.5 | 778.5  | 511.2 | 352.0 | 258.9 | 203.0 | 176.9 | 165.8 | 163.9 |
| 47.5° | 2091.6 | 1834.5 | 1326.1 | 876.3  | 560.6 | 368.8 | 260.7 | 201.1 | 173.2 | 162.0 | 161.1 |
| 50°   | 2265.7 | 2016.1 | 1478.8 | 975.0  | 610.9 | 389.3 | 263.5 | 201.1 | 167.6 | 157.4 | 155.5 |
| 52.5° | 2422.1 | 2173.5 | 1619.4 | 1064.4 | 663.0 | 415.3 | 271.0 | 199.3 | 163.0 | 151.8 | 150.9 |
| 55°   | 2566.5 | 2307.6 | 1745.1 | 1148.2 | 718.0 | 442.3 | 281.2 | 194.6 | 159.2 | 146.2 | 145.3 |
| 57.5° | 2709.0 | 2419.4 | 1833.6 | 1220.9 | 766.4 | 466.5 | 287.8 | 191.8 | 154.6 | 138.8 | 136.9 |
| 60°   | 2827.2 | 2528.3 | 1892.3 | 1274.9 | 804.6 | 485.2 | 291.5 | 190.9 | 148.1 | 130.4 | 129.4 |
| 62.5° | 2894.3 | 2590.7 | 1933.2 | 1312.1 | 828.8 | 496.3 | 294.3 | 188.1 | 140.6 | 122.9 | 119.2 |
| 65°   | 2886.8 | 2593.5 | 1948.1 | 1324.2 | 838.1 | 498.2 | 291.5 | 180.7 | 136.0 | 112.7 | 109.0 |
| 67.5° | 2800.2 | 2529.2 | 1917.4 | 1309.3 | 826.0 | 488.0 | 282.2 | 168.6 | 127.6 | 100.6 | 99.6  |
| 70°   | 2644.7 | 2389.6 | 1816.8 | 1251.6 | 794.3 | 461.9 | 265.4 | 155.5 | 116.4 | 91.3  | 88.5  |
| 72.5° | 2397.0 | 2172.6 | 1659.5 | 1162.2 | 732.0 | 423.7 | 244.0 | 142.5 | 104.3 | 85.7  | 81.0  |
| 75°   | 2099.9 | 1896.0 | 1445.3 | 1025.3 | 652.8 | 375.3 | 216.0 | 127.6 | 90.3  | 79.2  | 75.4  |
| 77.5° | 1734.9 | 1575.7 | 1199.4 | 857.7  | 550.4 | 323.1 | 184.4 | 109.9 | 75.4  | 71.7  | 70.8  |
| 80°   | 1330.7 | 1192.0 | 921.9  | 667.7  | 434.9 | 258.0 | 150.9 | 94.1  | 62.4  | 61.5  | 63.3  |
| 82.5° | 895.9  | 811.1  | 624.9  | 470.3  | 314.8 | 186.2 | 113.6 | 72.6  | 51.2  | 51.2  | 52.1  |
| 85°   | 492.6  | 446.1  | 364.1  | 259.8  | 185.3 | 117.3 | 76.4  | 53.1  | 41.0  | 40.0  | 41.0  |
| 87.5° | 137.8  | 123.9  | 105.2  | 81.0   | 68.0  | 47.5  | 38.2  | 32.6  | 28.9  | 28.9  | 28.9  |
| 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)