

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: P671660

Luminaire Tested: **CCP-SA-1E-730-U-SLL**

Issue Date: 04/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P671660  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1E-730-U-SLL  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ SLL  
distribution lens  
Light Source: (16) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5165.7 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1  
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

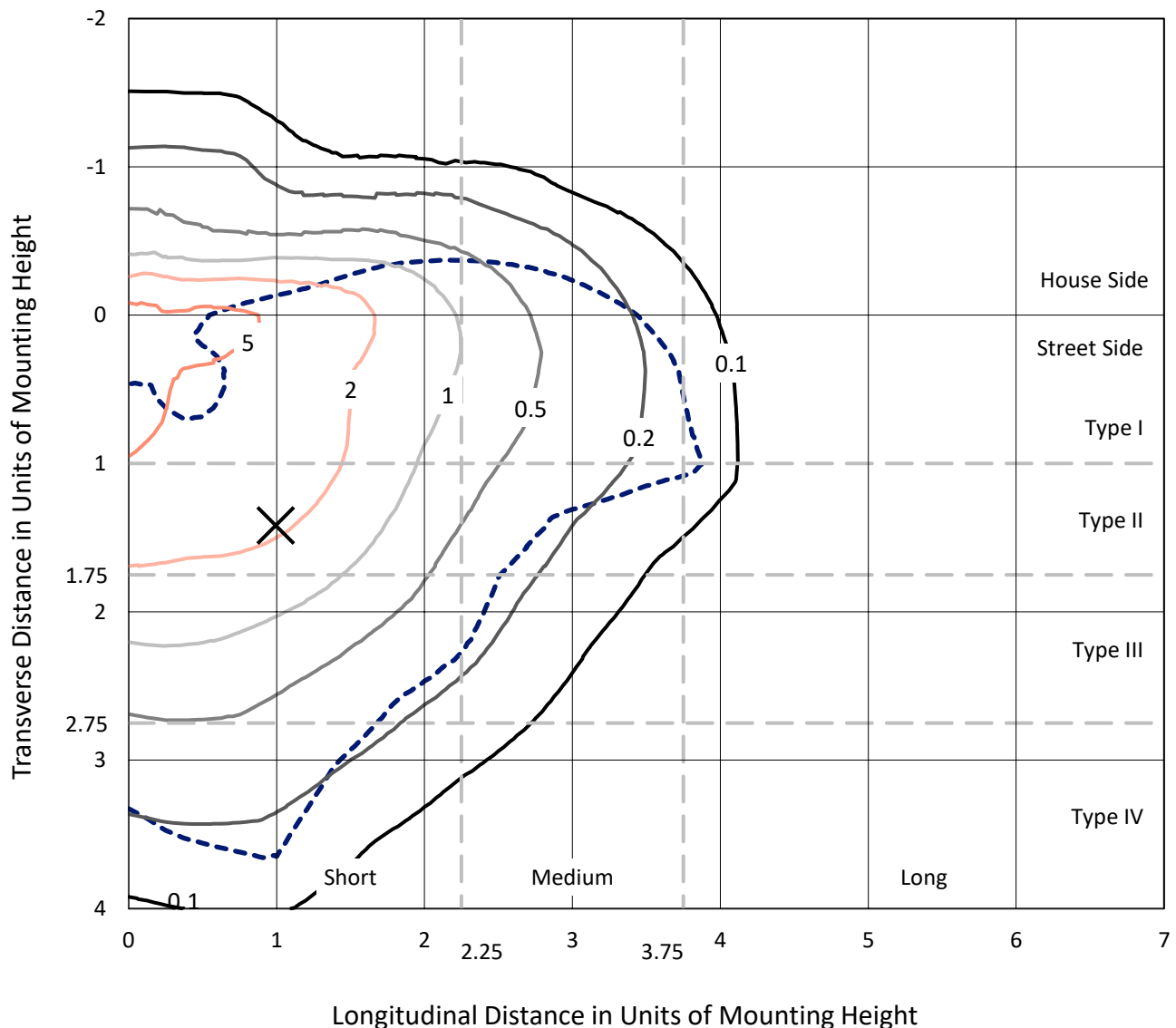
REPORT NUMBER: P671660

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## Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

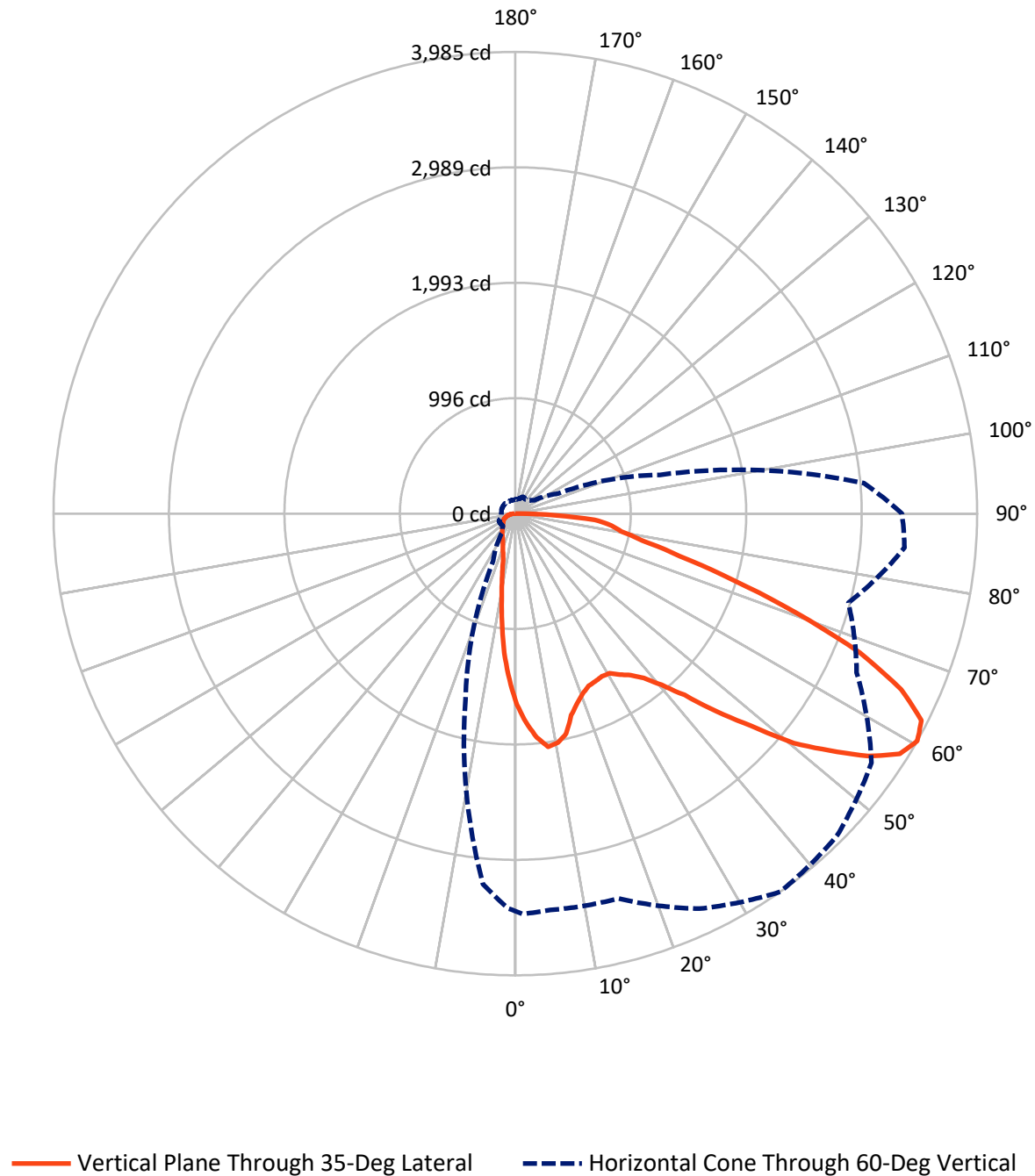


Based on 15 foot mounting height. Maximum calculated value = 8.4 fc

Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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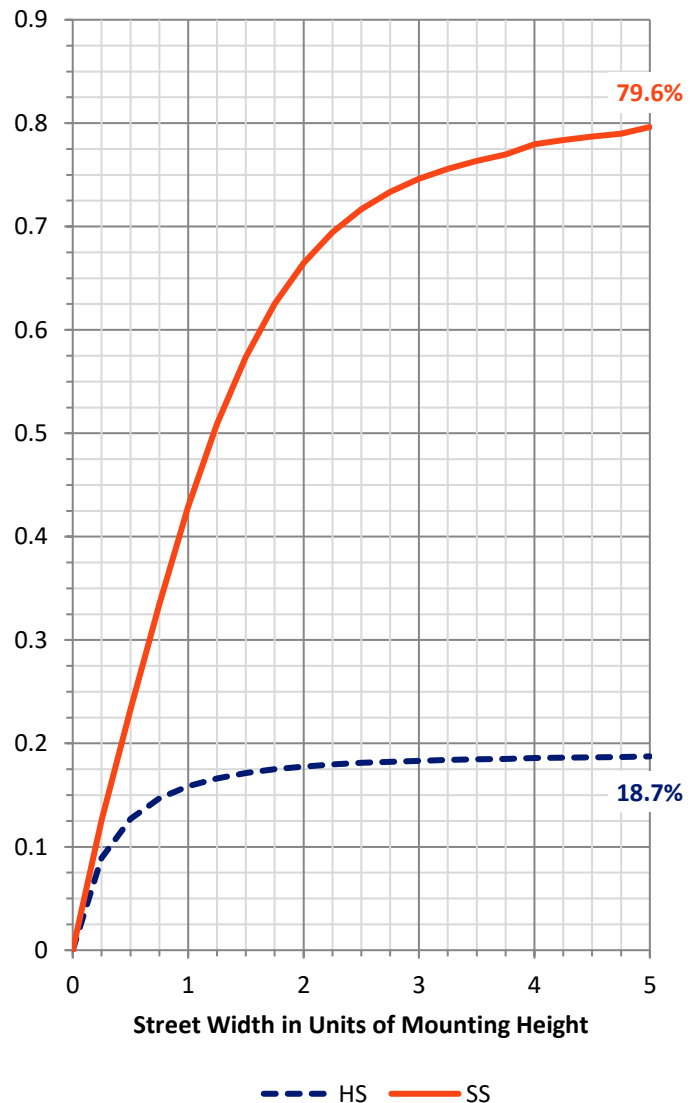
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 983.1    | 0.0    | 983.1  |
|                    | % Fixture | 19.0     | 0.0    | 19.0   |
| <b>Street Side</b> | Lumens    | 4182.6   | 0.0    | 4182.6 |
|                    | % Fixture | 81.0     | 0.0    | 81.0   |
| <b>Total</b>       | Lumens    | 5165.7   | 0.0    | 5165.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 128.2  | 2.5       |
| 10°-20°   | 270.6  | 5.2       |
| 20°-30°   | 395.9  | 7.7       |
| 30°-40°   | 557.9  | 10.8      |
| 40°-50°   | 766.7  | 14.8      |
| 50°-60°   | 1044.9 | 20.2      |
| 60°-70°   | 1143.6 | 22.1      |
| 70°-80°   | 660.2  | 12.8      |
| 80°-90°   | 197.7  | 3.8       |
| 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°    | 5165.7 | 100.0     |
| 0°-180°   | 5165.7 | 100.0     |

**Coefficient of Utilization**



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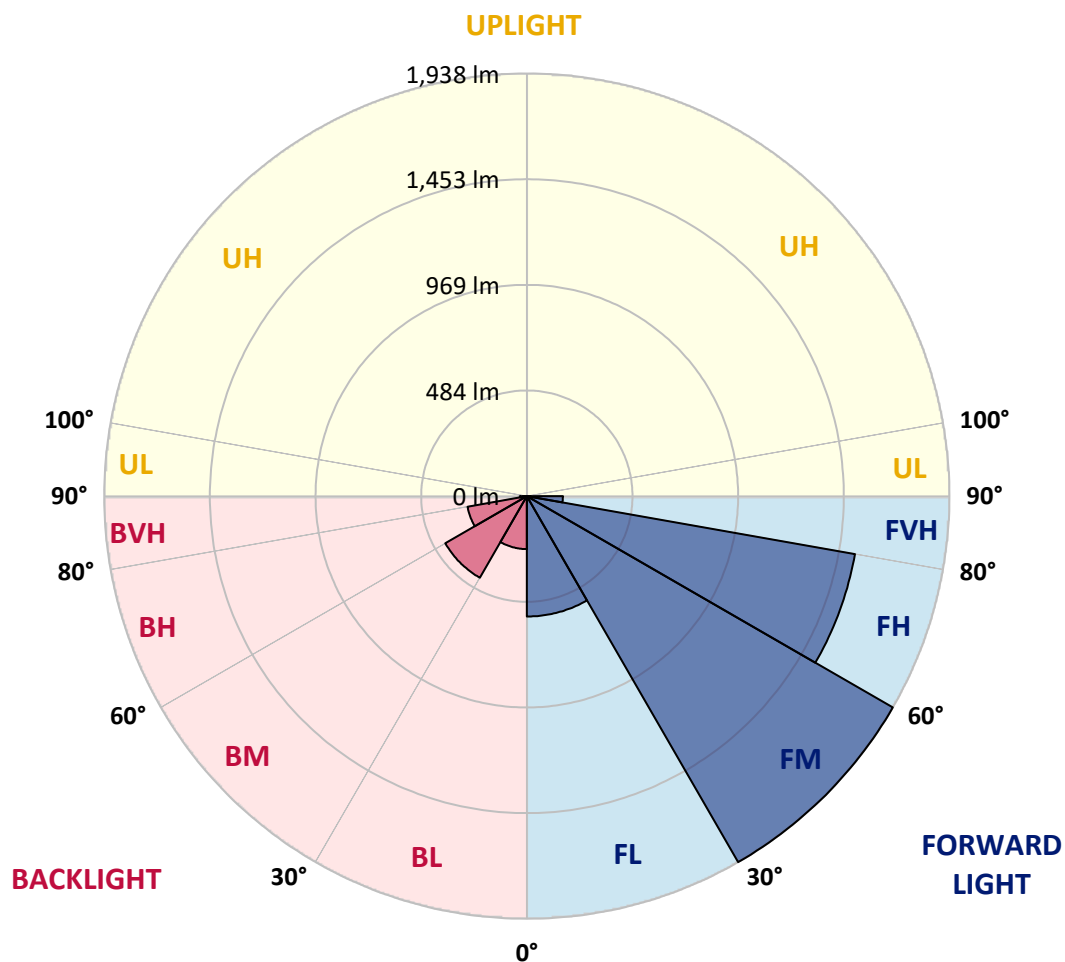
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 551.9  | 10.7      |                         |      |         |
| FM   | (30°-60°)   | 1937.6 | 37.5      |                         |      |         |
| FH   | (60°-80°)   | 1527.7 | 29.6      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 165.5  | 3.2       |                         |      | G2/225  |
| BL   | (0°-30°)    | 242.9  | 4.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 431.9  | 8.4       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 276.1  | 5.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 32.2   | 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-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1649.9 | 1649.9 | 1649.9 | 1649.9 | 1649.9 | 1649.9 | 1649.9 | 1649.9 | 1649.9 | 1649.9 | 1649.9 |
| 2.5°  | 1766.8 | 1759.9 | 1766.8 | 1792.0 | 1798.8 | 1810.3 | 1810.3 | 1794.3 | 1764.5 | 1750.7 | 1727.8 |
| 5°    | 1805.7 | 1794.3 | 1851.6 | 1904.3 | 1945.5 | 1940.9 | 1902.0 | 1869.9 | 1810.3 | 1720.9 | 1636.1 |
| 7.5°  | 1727.8 | 1739.3 | 1780.5 | 1918.0 | 2014.3 | 2032.6 | 1970.7 | 1906.5 | 1778.2 | 1654.5 | 1539.9 |
| 10°   | 1581.2 | 1597.2 | 1686.6 | 1828.6 | 1979.9 | 2009.7 | 1970.7 | 1892.8 | 1739.3 | 1585.7 | 1452.8 |
| 12.5° | 1510.1 | 1546.8 | 1599.5 | 1771.3 | 1879.1 | 1950.1 | 1931.8 | 1881.3 | 1709.5 | 1528.4 | 1400.1 |
| 15°   | 1510.1 | 1519.3 | 1597.2 | 1741.6 | 1803.4 | 1805.7 | 1812.6 | 1821.8 | 1718.6 | 1553.7 | 1381.8 |
| 17.5° | 1558.2 | 1583.4 | 1649.9 | 1739.3 | 1750.7 | 1723.2 | 1723.2 | 1762.2 | 1737.0 | 1624.7 | 1448.2 |
| 20°   | 1675.1 | 1665.9 | 1753.0 | 1789.7 | 1727.8 | 1659.1 | 1652.2 | 1718.6 | 1757.6 | 1700.3 | 1569.7 |
| 22.5° | 1792.0 | 1833.2 | 1904.3 | 1821.8 | 1707.2 | 1615.5 | 1606.4 | 1688.9 | 1819.5 | 1830.9 | 1709.5 |
| 25°   | 1968.4 | 2009.7 | 2046.3 | 1945.5 | 1704.9 | 1604.1 | 1610.9 | 1675.1 | 1895.1 | 2016.5 | 1943.2 |
| 27.5° | 2158.6 | 2183.8 | 2236.5 | 2080.7 | 1759.9 | 1590.3 | 1597.2 | 1693.4 | 1966.1 | 2138.0 | 2126.5 |
| 30°   | 2266.3 | 2293.8 | 2282.4 | 2105.9 | 1796.6 | 1599.5 | 1581.2 | 1718.6 | 1927.2 | 2138.0 | 2245.7 |
| 32.5° | 2371.7 | 2355.7 | 2348.8 | 2147.2 | 1842.4 | 1656.8 | 1610.9 | 1771.3 | 1950.1 | 2172.4 | 2399.2 |
| 35°   | 2500.1 | 2477.1 | 2458.8 | 2227.4 | 1918.0 | 1711.8 | 1691.1 | 1840.1 | 2000.5 | 2243.4 | 2523.0 |
| 37.5° | 2642.1 | 2642.1 | 2552.8 | 2286.9 | 2007.4 | 1801.1 | 1778.2 | 1938.6 | 2080.7 | 2286.9 | 2692.5 |
| 40°   | 2809.4 | 2816.3 | 2658.2 | 2367.1 | 2108.2 | 1943.2 | 1936.3 | 2067.0 | 2158.6 | 2351.1 | 2855.2 |
| 42.5° | 2933.2 | 2937.7 | 2749.8 | 2396.9 | 2225.1 | 2140.3 | 2170.1 | 2273.2 | 2248.0 | 2408.4 | 2866.7 |
| 45°   | 3017.9 | 2995.0 | 2814.0 | 2481.7 | 2353.4 | 2435.9 | 2445.1 | 2474.8 | 2364.9 | 2442.8 | 2912.5 |
| 47.5° | 3059.2 | 3054.6 | 2841.5 | 2580.3 | 2623.8 | 2736.1 | 2788.8 | 2747.5 | 2472.6 | 2406.1 | 2912.5 |
| 50°   | 3100.4 | 3061.5 | 2866.7 | 2715.5 | 2887.3 | 3114.2 | 3102.7 | 3027.1 | 2621.5 | 2451.9 | 2869.0 |
| 52.5° | 3127.9 | 3093.6 | 2917.1 | 2836.9 | 3139.4 | 3396.0 | 3441.9 | 3302.1 | 2795.7 | 2536.7 | 2889.6 |
| 55°   | 3226.5 | 3199.0 | 3068.4 | 3001.9 | 3430.4 | 3693.9 | 3700.8 | 3506.0 | 2979.0 | 2676.5 | 3024.8 |
| 57.5° | 3345.6 | 3361.7 | 3276.9 | 3235.6 | 3652.7 | 3911.6 | 3886.4 | 3657.3 | 3134.8 | 2846.1 | 3180.6 |
| 60°   | 3430.4 | 3455.6 | 3435.0 | 3439.6 | 3762.7 | 3985.0 | 3927.7 | 3751.2 | 3249.4 | 2974.4 | 3370.8 |
| 62.5° | 3384.6 | 3435.0 | 3519.8 | 3501.5 | 3767.3 | 3932.3 | 3852.1 | 3627.5 | 3263.1 | 3141.7 | 3515.2 |
| 65°   | 3258.6 | 3263.1 | 3428.1 | 3529.0 | 3561.0 | 3659.6 | 3554.2 | 3368.5 | 3121.1 | 3244.8 | 3494.6 |
| 67.5° | 2935.4 | 2972.1 | 3121.1 | 3318.1 | 3182.9 | 3205.8 | 3196.7 | 2928.6 | 2905.7 | 3173.8 | 3336.5 |
| 70°   | 2591.7 | 2616.9 | 2779.6 | 3011.1 | 2688.0 | 2580.3 | 2600.9 | 2401.5 | 2495.5 | 2953.8 | 3017.9 |
| 72.5° | 2142.6 | 2158.6 | 2344.2 | 2548.2 | 2156.3 | 1963.8 | 2012.0 | 1849.3 | 1982.2 | 2584.8 | 2545.9 |
| 75°   | 1617.8 | 1647.6 | 1792.0 | 2032.6 | 1588.0 | 1464.3 | 1512.4 | 1446.0 | 1569.7 | 2128.8 | 1975.3 |
| 77.5° | 1150.3 | 1127.4 | 1306.2 | 1590.3 | 1193.9 | 1120.6 | 1125.1 | 1136.6 | 1269.5 | 1794.3 | 1418.5 |
| 80°   | 783.7  | 790.6  | 951.0  | 1166.4 | 937.2  | 925.8  | 914.3  | 1006.0 | 1065.6 | 1420.7 | 1031.2 |
| 82.5° | 465.2  | 465.2  | 641.6  | 829.5  | 740.2  | 834.1  | 781.4  | 863.9  | 834.1  | 1044.9 | 676.0  |
| 85°   | 217.7  | 217.7  | 330.0  | 598.1  | 572.9  | 687.5  | 584.3  | 653.1  | 616.4  | 728.7  | 304.8  |
| 87.5° | 36.7   | 32.1   | 66.5   | 293.3  | 236.0  | 268.1  | 105.4  | 348.3  | 387.3  | 508.7  | 75.6   |
| 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°    | 1649.9 | 1649.9 | 1649.9 | 1649.9 | 1649.9 | 1649.9 | 1649.9 | 1649.9 | 1649.9 | 1649.9 | 1649.9 |
| 2.5°  | 1702.6 | 1686.6 | 1654.5 | 1613.2 | 1578.9 | 1535.3 | 1521.6 | 1491.8 | 1450.5 | 1446.0 | 1427.6 |
| 5°    | 1604.1 | 1549.1 | 1480.3 | 1395.5 | 1338.3 | 1278.7 | 1228.3 | 1198.5 | 1164.1 | 1159.5 | 1150.3 |
| 7.5°  | 1496.4 | 1427.6 | 1313.0 | 1212.2 | 1113.7 | 1019.7 | 973.9  | 916.6  | 877.7  | 847.9  | 834.1  |
| 10°   | 1395.5 | 1331.4 | 1189.3 | 1051.8 | 964.7  | 902.9  | 847.9  | 788.3  | 740.2  | 703.5  | 689.7  |
| 12.5° | 1329.1 | 1253.5 | 1099.9 | 969.3  | 905.2  | 834.1  | 772.2  | 708.1  | 646.2  | 598.1  | 572.9  |
| 15°   | 1299.3 | 1228.3 | 1072.4 | 928.1  | 834.1  | 735.6  | 664.5  | 600.4  | 524.8  | 490.4  | 478.9  |
| 17.5° | 1370.3 | 1264.9 | 1063.3 | 879.9  | 747.0  | 634.8  | 547.7  | 478.9  | 423.9  | 389.6  | 375.8  |
| 20°   | 1462.0 | 1331.4 | 1079.3 | 822.7  | 664.5  | 538.5  | 442.3  | 368.9  | 332.3  | 307.1  | 304.8  |
| 22.5° | 1578.9 | 1429.9 | 1104.5 | 781.4  | 572.9  | 433.1  | 346.0  | 302.5  | 277.3  | 275.0  | 270.4  |
| 25°   | 1787.4 | 1608.7 | 1145.8 | 726.4  | 499.6  | 357.5  | 295.6  | 270.4  | 258.9  | 252.1  | 256.7  |
| 27.5° | 1966.1 | 1725.5 | 1175.6 | 692.0  | 469.8  | 336.9  | 286.4  | 258.9  | 247.5  | 245.2  | 247.5  |
| 30°   | 2071.5 | 1833.2 | 1166.4 | 627.9  | 410.2  | 320.8  | 304.8  | 295.6  | 272.7  | 254.4  | 254.4  |
| 32.5° | 2167.8 | 1902.0 | 1164.1 | 570.6  | 350.6  | 268.1  | 254.4  | 247.5  | 261.2  | 270.4  | 263.5  |
| 35°   | 2300.7 | 2009.7 | 1157.2 | 538.5  | 325.4  | 247.5  | 224.6  | 206.2  | 197.1  | 192.5  | 199.4  |
| 37.5° | 2442.8 | 2083.0 | 1138.9 | 533.9  | 311.6  | 236.0  | 217.7  | 199.4  | 190.2  | 185.6  | 183.3  |
| 40°   | 2598.6 | 2160.9 | 1118.3 | 511.0  | 304.8  | 229.2  | 210.8  | 194.8  | 183.3  | 176.4  | 174.2  |
| 42.5° | 2699.4 | 2222.8 | 1097.6 | 499.6  | 291.0  | 224.6  | 203.9  | 190.2  | 178.7  | 169.6  | 169.6  |
| 45°   | 2756.7 | 2296.1 | 1077.0 | 488.1  | 275.0  | 226.9  | 203.9  | 185.6  | 171.9  | 167.3  | 162.7  |
| 47.5° | 2781.9 | 2351.1 | 1070.1 | 469.8  | 261.2  | 217.7  | 199.4  | 181.0  | 167.3  | 158.1  | 155.8  |
| 50°   | 2848.4 | 2468.0 | 1095.3 | 456.0  | 245.2  | 208.5  | 210.8  | 178.7  | 165.0  | 153.5  | 151.2  |
| 52.5° | 2887.3 | 2561.9 | 1150.3 | 435.4  | 233.7  | 197.1  | 206.2  | 174.2  | 158.1  | 146.7  | 146.7  |
| 55°   | 3029.4 | 2717.7 | 1209.9 | 419.3  | 220.0  | 181.0  | 190.2  | 165.0  | 146.7  | 139.8  | 139.8  |
| 57.5° | 3210.4 | 2882.7 | 1260.3 | 412.5  | 210.8  | 169.6  | 169.6  | 160.4  | 139.8  | 130.6  | 128.3  |
| 60°   | 3336.5 | 3017.9 | 1290.1 | 407.9  | 201.7  | 158.1  | 151.2  | 160.4  | 132.9  | 123.7  | 121.5  |
| 62.5° | 3350.2 | 2940.0 | 1260.3 | 405.6  | 199.4  | 146.7  | 137.5  | 153.5  | 126.0  | 116.9  | 112.3  |
| 65°   | 3263.1 | 2781.9 | 1177.8 | 396.4  | 197.1  | 135.2  | 128.3  | 132.9  | 116.9  | 110.0  | 105.4  |
| 67.5° | 3089.0 | 2525.3 | 1058.7 | 391.9  | 194.8  | 126.0  | 116.9  | 114.6  | 107.7  | 100.8  | 96.2   |
| 70°   | 2683.4 | 2190.7 | 918.9  | 371.2  | 190.2  | 119.2  | 105.4  | 103.1  | 96.2   | 91.7   | 89.4   |
| 72.5° | 2252.6 | 1792.0 | 758.5  | 343.7  | 181.0  | 107.7  | 96.2   | 91.7   | 89.4   | 82.5   | 80.2   |
| 75°   | 1725.5 | 1379.5 | 607.3  | 304.8  | 158.1  | 96.2   | 84.8   | 80.2   | 77.9   | 73.3   | 71.0   |
| 77.5° | 1212.2 | 1026.6 | 449.1  | 247.5  | 132.9  | 87.1   | 75.6   | 71.0   | 68.7   | 61.9   | 61.9   |
| 80°   | 822.7  | 719.5  | 304.8  | 171.9  | 103.1  | 71.0   | 66.5   | 61.9   | 57.3   | 52.7   | 52.7   |
| 82.5° | 511.0  | 504.1  | 220.0  | 112.3  | 75.6   | 57.3   | 52.7   | 52.7   | 45.8   | 41.2   | 41.2   |
| 85°   | 233.7  | 309.4  | 153.5  | 77.9   | 57.3   | 43.5   | 43.5   | 41.2   | 36.7   | 29.8   | 29.8   |
| 87.5° | 73.3   | 103.1  | 80.2   | 34.4   | 32.1   | 25.2   | 25.2   | 22.9   | 22.9   | 18.3   | 18.3   |
| 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1649.9 | 1649.9 | 1649.9 | 1649.9 | 1649.9 | 1649.9 | 1649.9 | 1649.9 | 1649.9 | 1649.9 | 1649.9 |
| 2.5°  | 1446.0 | 1443.7 | 1443.7 | 1434.5 | 1457.4 | 1457.4 | 1471.2 | 1459.7 | 1466.6 | 1468.9 | 1487.2 |
| 5°    | 1148.1 | 1166.4 | 1180.1 | 1207.6 | 1223.7 | 1230.5 | 1230.5 | 1248.9 | 1242.0 | 1255.8 | 1283.3 |
| 7.5°  | 841.0  | 863.9  | 905.2  | 939.5  | 967.0  | 976.2  | 973.9  | 978.5  | 985.4  | 969.3  | 973.9  |
| 10°   | 680.6  | 664.5  | 678.3  | 710.4  | 735.6  | 765.4  | 742.5  | 740.2  | 747.0  | 740.2  | 753.9  |
| 12.5° | 568.3  | 550.0  | 538.5  | 538.5  | 556.8  | 570.6  | 563.7  | 575.2  | 600.4  | 607.3  | 623.3  |
| 15°   | 460.6  | 444.6  | 435.4  | 423.9  | 442.3  | 446.8  | 453.7  | 469.8  | 488.1  | 497.3  | 515.6  |
| 17.5° | 368.9  | 368.9  | 368.9  | 359.8  | 366.6  | 373.5  | 375.8  | 396.4  | 398.7  | 407.9  | 414.8  |
| 20°   | 302.5  | 309.4  | 320.8  | 325.4  | 332.3  | 332.3  | 327.7  | 339.1  | 330.0  | 336.9  | 341.4  |
| 22.5° | 272.7  | 281.9  | 286.4  | 288.7  | 297.9  | 300.2  | 288.7  | 291.0  | 293.3  | 286.4  | 288.7  |
| 25°   | 256.7  | 261.2  | 256.7  | 258.9  | 261.2  | 256.7  | 258.9  | 263.5  | 261.2  | 265.8  | 263.5  |
| 27.5° | 249.8  | 245.2  | 242.9  | 240.6  | 240.6  | 236.0  | 238.3  | 238.3  | 242.9  | 245.2  | 245.2  |
| 30°   | 249.8  | 242.9  | 233.7  | 226.9  | 226.9  | 220.0  | 224.6  | 229.2  | 231.4  | 236.0  | 236.0  |
| 32.5° | 256.7  | 242.9  | 226.9  | 220.0  | 213.1  | 208.5  | 213.1  | 220.0  | 229.2  | 231.4  | 233.7  |
| 35°   | 203.9  | 210.8  | 208.5  | 199.4  | 197.1  | 197.1  | 194.8  | 194.8  | 187.9  | 187.9  | 185.6  |
| 37.5° | 183.3  | 181.0  | 185.6  | 187.9  | 190.2  | 183.3  | 183.3  | 174.2  | 171.9  | 174.2  | 174.2  |
| 40°   | 171.9  | 171.9  | 171.9  | 178.7  | 181.0  | 176.4  | 169.6  | 165.0  | 165.0  | 165.0  | 167.3  |
| 42.5° | 167.3  | 162.7  | 160.4  | 165.0  | 171.9  | 167.3  | 160.4  | 158.1  | 158.1  | 160.4  | 160.4  |
| 45°   | 160.4  | 158.1  | 155.8  | 153.5  | 162.7  | 155.8  | 153.5  | 151.2  | 151.2  | 151.2  | 153.5  |
| 47.5° | 153.5  | 151.2  | 146.7  | 146.7  | 148.9  | 146.7  | 144.4  | 144.4  | 144.4  | 148.9  | 148.9  |
| 50°   | 148.9  | 146.7  | 142.1  | 142.1  | 142.1  | 142.1  | 139.8  | 139.8  | 139.8  | 142.1  | 144.4  |
| 52.5° | 142.1  | 139.8  | 137.5  | 135.2  | 135.2  | 135.2  | 135.2  | 135.2  | 135.2  | 137.5  | 139.8  |
| 55°   | 135.2  | 132.9  | 130.6  | 130.6  | 132.9  | 132.9  | 130.6  | 132.9  | 130.6  | 132.9  | 135.2  |
| 57.5° | 128.3  | 126.0  | 123.7  | 126.0  | 128.3  | 126.0  | 126.0  | 126.0  | 126.0  | 126.0  | 128.3  |
| 60°   | 119.2  | 119.2  | 119.2  | 119.2  | 123.7  | 123.7  | 123.7  | 123.7  | 119.2  | 121.5  | 123.7  |
| 62.5° | 114.6  | 112.3  | 112.3  | 114.6  | 116.9  | 116.9  | 119.2  | 116.9  | 114.6  | 116.9  | 116.9  |
| 65°   | 105.4  | 105.4  | 105.4  | 107.7  | 107.7  | 110.0  | 110.0  | 110.0  | 107.7  | 110.0  | 110.0  |
| 67.5° | 98.5   | 98.5   | 98.5   | 98.5   | 103.1  | 103.1  | 103.1  | 103.1  | 100.8  | 100.8  | 103.1  |
| 70°   | 87.1   | 89.4   | 87.1   | 91.7   | 96.2   | 94.0   | 96.2   | 96.2   | 94.0   | 91.7   | 96.2   |
| 72.5° | 80.2   | 80.2   | 80.2   | 80.2   | 87.1   | 87.1   | 87.1   | 89.4   | 87.1   | 84.8   | 87.1   |
| 75°   | 71.0   | 71.0   | 71.0   | 73.3   | 77.9   | 77.9   | 77.9   | 77.9   | 77.9   | 75.6   | 75.6   |
| 77.5° | 61.9   | 64.2   | 61.9   | 64.2   | 68.7   | 66.5   | 68.7   | 71.0   | 68.7   | 66.5   | 66.5   |
| 80°   | 52.7   | 52.7   | 52.7   | 55.0   | 57.3   | 57.3   | 57.3   | 59.6   | 57.3   | 55.0   | 55.0   |
| 82.5° | 41.2   | 41.2   | 43.5   | 43.5   | 45.8   | 45.8   | 45.8   | 48.1   | 45.8   | 43.5   | 43.5   |
| 85°   | 32.1   | 32.1   | 32.1   | 34.4   | 34.4   | 36.7   | 36.7   | 39.0   | 39.0   | 36.7   | 36.7   |
| 87.5° | 20.6   | 18.3   | 20.6   | 20.6   | 22.9   | 22.9   | 20.6   | 18.3   | 20.6   | 18.3   | 16.0   |
| 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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|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1649.9 | 1649.9 | 1649.9 | 1649.9 | 1649.9 | 1649.9 | 1649.9 | 1649.9 | 1649.9 | 1649.9 |
| 2.5°  | 1505.5 | 1546.8 | 1576.6 | 1597.2 | 1627.0 | 1684.3 | 1707.2 | 1748.4 | 1759.9 | 1766.8 |
| 5°    | 1294.7 | 1338.3 | 1402.4 | 1448.2 | 1500.9 | 1608.7 | 1691.1 | 1753.0 | 1780.5 | 1805.7 |
| 7.5°  | 1015.1 | 1072.4 | 1138.9 | 1198.5 | 1285.5 | 1418.5 | 1526.2 | 1654.5 | 1702.6 | 1727.8 |
| 10°   | 792.9  | 845.6  | 918.9  | 992.2  | 1113.7 | 1226.0 | 1379.5 | 1496.4 | 1562.8 | 1581.2 |
| 12.5° | 669.1  | 731.0  | 818.1  | 907.4  | 983.1  | 1111.4 | 1267.2 | 1436.8 | 1498.7 | 1510.1 |
| 15°   | 568.3  | 653.1  | 742.5  | 834.1  | 921.2  | 1033.5 | 1200.8 | 1407.0 | 1498.7 | 1510.1 |
| 17.5° | 469.8  | 545.4  | 650.8  | 749.3  | 850.2  | 1003.7 | 1212.2 | 1432.2 | 1523.9 | 1558.2 |
| 20°   | 373.5  | 446.8  | 529.3  | 653.1  | 790.6  | 953.3  | 1237.4 | 1517.0 | 1638.4 | 1675.1 |
| 22.5° | 309.4  | 341.4  | 421.6  | 540.8  | 703.5  | 918.9  | 1262.6 | 1649.9 | 1778.2 | 1792.0 |
| 25°   | 270.4  | 293.3  | 343.7  | 456.0  | 634.8  | 896.0  | 1322.2 | 1803.4 | 1968.4 | 1968.4 |
| 27.5° | 252.1  | 261.2  | 295.6  | 396.4  | 586.6  | 875.4  | 1381.8 | 1973.0 | 2126.5 | 2158.6 |
| 30°   | 247.5  | 270.4  | 288.7  | 352.9  | 533.9  | 818.1  | 1436.8 | 2105.9 | 2264.0 | 2266.3 |
| 32.5° | 242.9  | 238.3  | 252.1  | 307.1  | 469.8  | 758.5  | 1482.6 | 2241.1 | 2364.9 | 2371.7 |
| 35°   | 190.2  | 199.4  | 222.3  | 270.4  | 421.6  | 715.0  | 1505.5 | 2314.4 | 2493.2 | 2500.1 |
| 37.5° | 178.7  | 190.2  | 208.5  | 249.8  | 389.6  | 678.3  | 1512.4 | 2456.5 | 2628.4 | 2642.1 |
| 40°   | 174.2  | 183.3  | 197.1  | 231.4  | 364.4  | 632.5  | 1526.2 | 2603.2 | 2827.7 | 2809.4 |
| 42.5° | 165.0  | 176.4  | 190.2  | 222.3  | 343.7  | 598.1  | 1528.4 | 2683.4 | 2933.2 | 2933.2 |
| 45°   | 162.7  | 169.6  | 185.6  | 222.3  | 320.8  | 568.3  | 1491.8 | 2763.6 | 3054.6 | 3017.9 |
| 47.5° | 153.5  | 167.3  | 181.0  | 215.4  | 293.3  | 538.5  | 1448.2 | 2804.8 | 3070.6 | 3059.2 |
| 50°   | 151.2  | 165.0  | 187.9  | 203.9  | 277.3  | 524.8  | 1439.1 | 2907.9 | 3102.7 | 3100.4 |
| 52.5° | 146.7  | 160.4  | 194.8  | 194.8  | 256.7  | 506.4  | 1482.6 | 2953.8 | 3109.6 | 3127.9 |
| 55°   | 139.8  | 160.4  | 181.0  | 178.7  | 238.3  | 483.5  | 1530.7 | 3072.9 | 3231.1 | 3226.5 |
| 57.5° | 135.2  | 155.8  | 171.9  | 162.7  | 217.7  | 467.5  | 1601.8 | 3187.5 | 3377.7 | 3345.6 |
| 60°   | 128.3  | 155.8  | 153.5  | 151.2  | 201.7  | 453.7  | 1661.4 | 3210.4 | 3409.8 | 3430.4 |
| 62.5° | 123.7  | 162.7  | 135.2  | 139.8  | 187.9  | 446.8  | 1636.1 | 3038.6 | 3366.3 | 3384.6 |
| 65°   | 119.2  | 139.8  | 123.7  | 128.3  | 183.3  | 433.1  | 1537.6 | 2832.3 | 3178.3 | 3258.6 |
| 67.5° | 110.0  | 114.6  | 114.6  | 119.2  | 178.7  | 401.0  | 1336.0 | 2461.1 | 2891.9 | 2935.4 |
| 70°   | 100.8  | 103.1  | 103.1  | 110.0  | 174.2  | 364.4  | 1102.2 | 2128.8 | 2509.2 | 2591.7 |
| 72.5° | 91.7   | 91.7   | 91.7   | 100.8  | 160.4  | 334.6  | 907.4  | 1636.1 | 2085.3 | 2142.6 |
| 75°   | 80.2   | 80.2   | 80.2   | 89.4   | 144.4  | 304.8  | 715.0  | 1216.8 | 1535.3 | 1617.8 |
| 77.5° | 71.0   | 71.0   | 68.7   | 80.2   | 126.0  | 247.5  | 515.6  | 859.3  | 1081.6 | 1150.3 |
| 80°   | 59.6   | 57.3   | 57.3   | 64.2   | 98.5   | 178.7  | 332.3  | 607.3  | 753.9  | 783.7  |
| 82.5° | 48.1   | 45.8   | 43.5   | 48.1   | 71.0   | 112.3  | 206.2  | 423.9  | 483.5  | 465.2  |
| 85°   | 45.8   | 48.1   | 39.0   | 36.7   | 50.4   | 73.3   | 130.6  | 261.2  | 217.7  | 217.7  |
| 87.5° | 18.3   | 16.0   | 16.0   | 13.7   | 25.2   | 27.5   | 57.3   | 48.1   | 36.7   | 36.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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