

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: P671751

Luminaire Tested: **CCP-SA-2B-840-U-SLL**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671751  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2B-840-U-SLL  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ SLL  
distribution lens  
Light Source: (32) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4885.6 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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

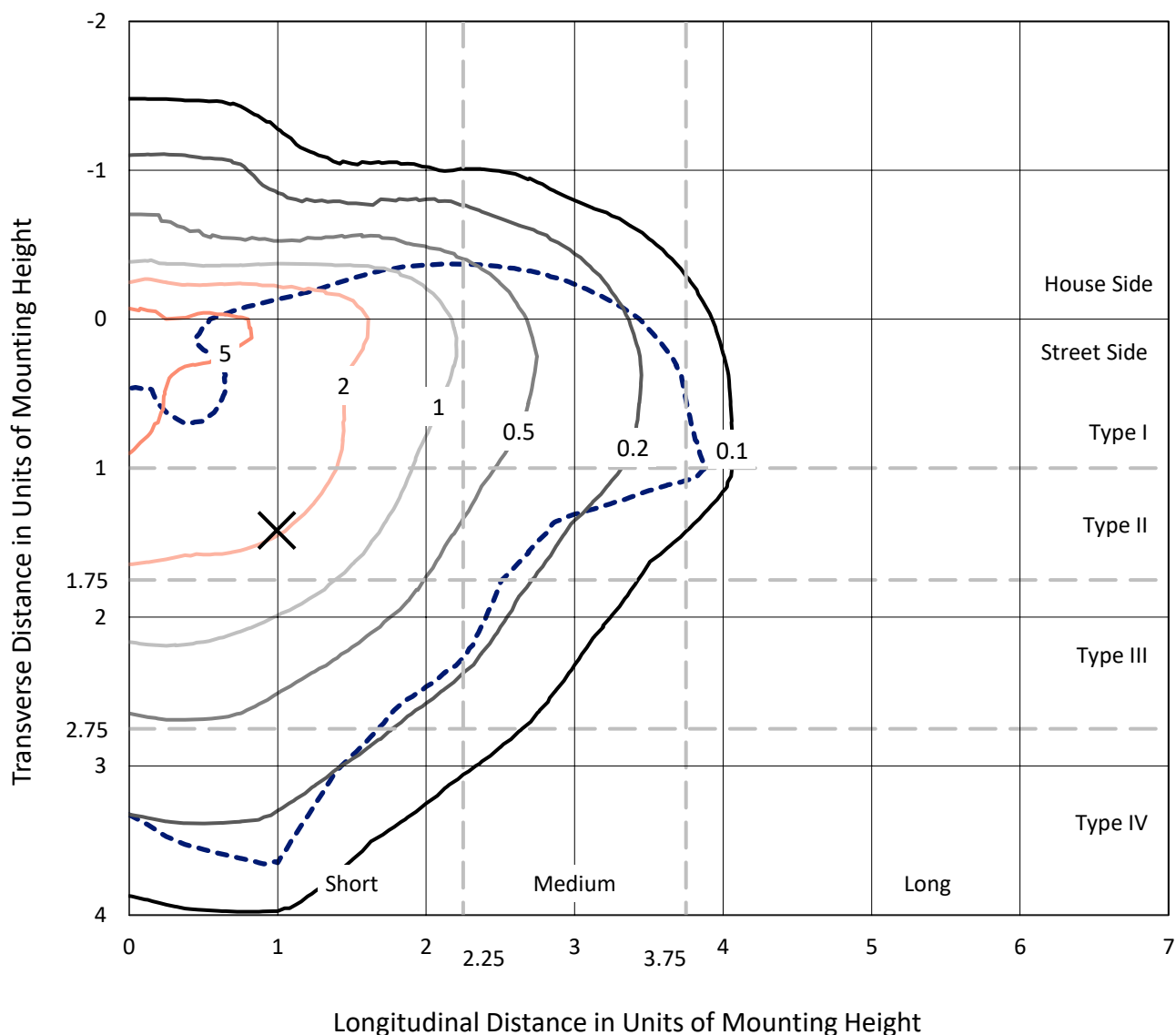
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

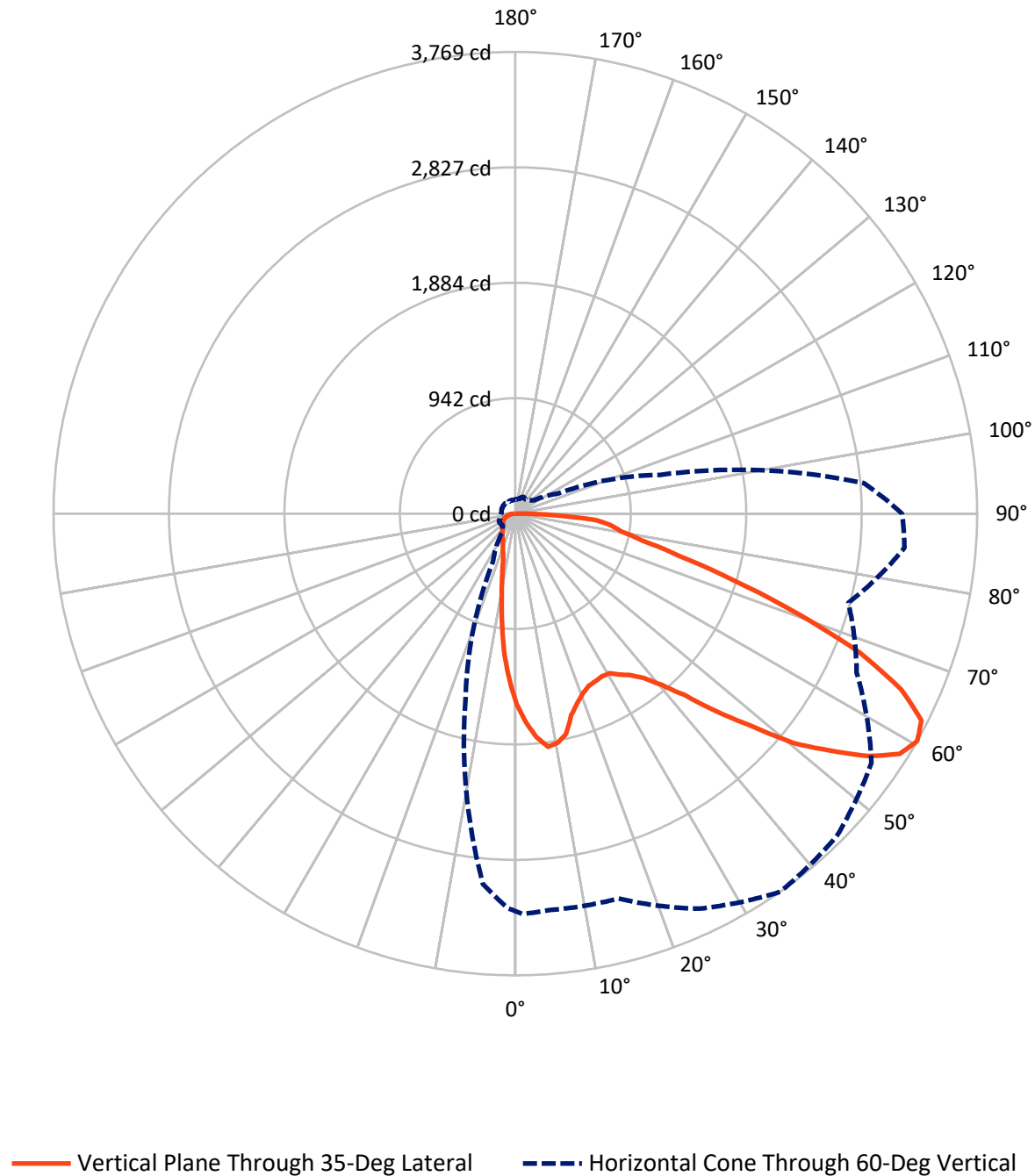


Based on 15 foot mounting height. Maximum calculated value = 7.9 fc

Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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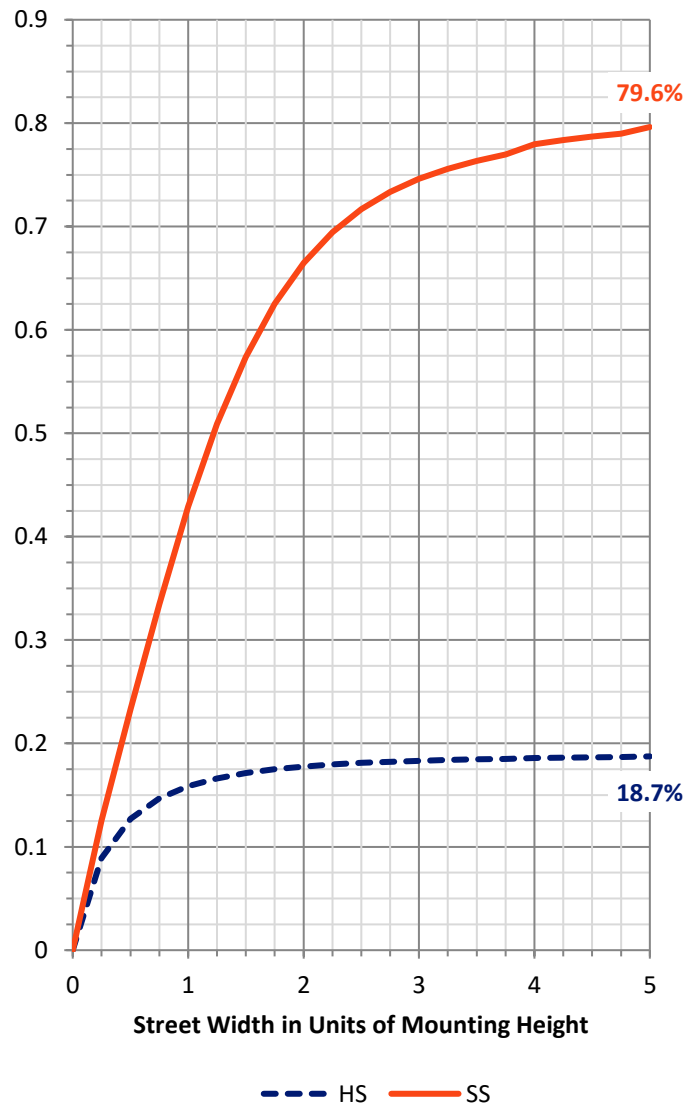
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 929.8    | 0.0    | 929.8  |
|                    | % Fixture | 19.0     | 0.0    | 19.0   |
| <b>Street Side</b> | Lumens    | 3955.8   | 0.0    | 3955.8 |
|                    | % Fixture | 81.0     | 0.0    | 81.0   |
| <b>Total</b>       | Lumens    | 4885.6   | 0.0    | 4885.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 121.2  | 2.5       |
| 10°-20°   | 255.9  | 5.2       |
| 20°-30°   | 374.5  | 7.7       |
| 30°-40°   | 527.6  | 10.8      |
| 40°-50°   | 725.1  | 14.8      |
| 50°-60°   | 988.2  | 20.2      |
| 60°-70°   | 1081.6 | 22.1      |
| 70°-80°   | 624.4  | 12.8      |
| 80°-90°   | 187.0  | 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°    | 4885.6 | 100.0     |
| 0°-180°   | 4885.6 | 100.0     |

**Coefficient of Utilization**



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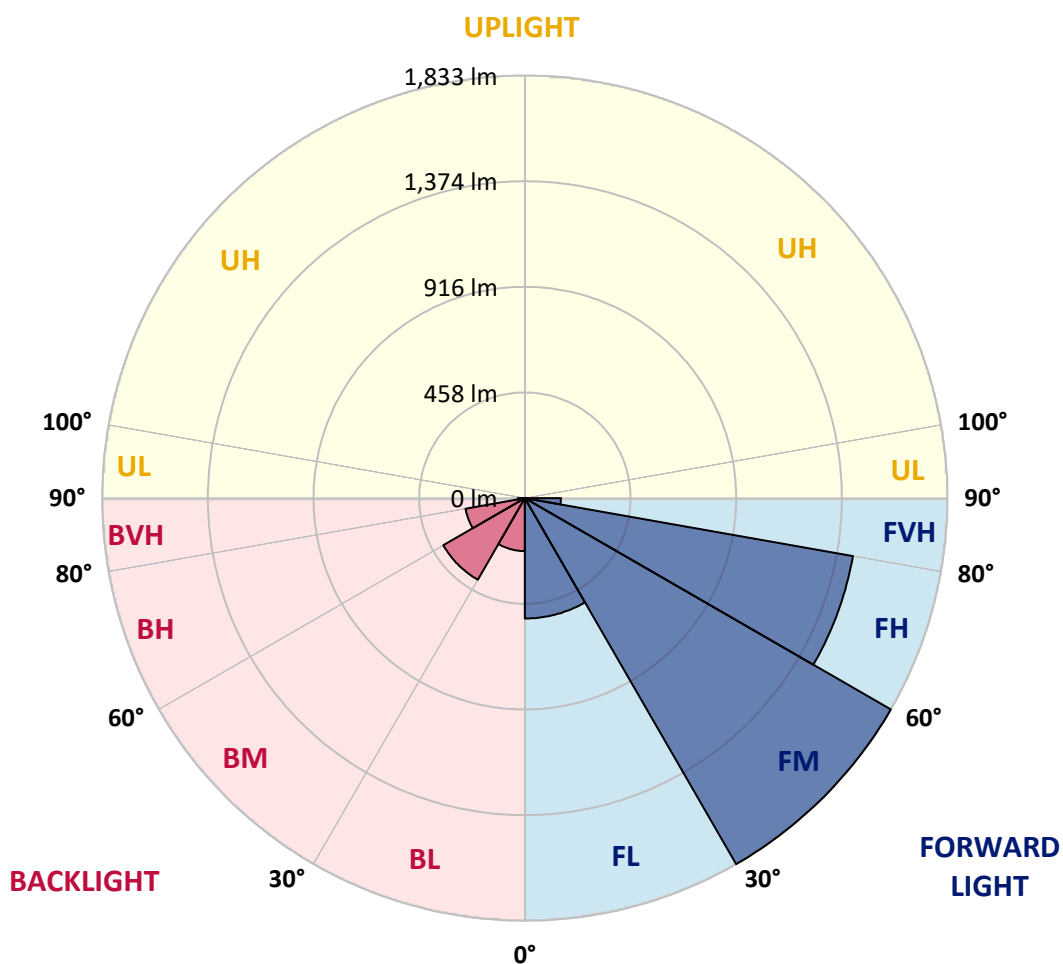
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 521.9  | 10.7      |                         |      |         |
| FM   | (30°-60°)   | 1832.5 | 37.5      |                         |      |         |
| FH   | (60°-80°)   | 1444.9 | 29.6      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 156.5  | 3.2       |                         |      | G2/225  |
| BL   | (0°-30°)    | 229.7  | 4.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 408.4  | 8.4       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 261.2  | 5.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 30.5   | 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°    | 1560.4 | 1560.4 | 1560.4 | 1560.4 | 1560.4 | 1560.4 | 1560.4 | 1560.4 | 1560.4 | 1560.4 | 1560.4 |
| 2.5°  | 1671.0 | 1664.5 | 1671.0 | 1694.8 | 1701.3 | 1712.1 | 1712.1 | 1697.0 | 1668.8 | 1655.8 | 1634.1 |
| 5°    | 1707.8 | 1697.0 | 1751.2 | 1801.0 | 1840.0 | 1835.7 | 1798.8 | 1768.5 | 1712.1 | 1627.6 | 1547.4 |
| 7.5°  | 1634.1 | 1645.0 | 1684.0 | 1814.0 | 1905.0 | 1922.4 | 1863.9 | 1803.2 | 1681.8 | 1564.8 | 1456.4 |
| 10°   | 1495.4 | 1510.6 | 1595.1 | 1729.5 | 1872.5 | 1900.7 | 1863.9 | 1790.2 | 1645.0 | 1499.8 | 1374.1 |
| 12.5° | 1428.2 | 1462.9 | 1512.8 | 1675.3 | 1777.2 | 1844.4 | 1827.0 | 1779.3 | 1616.8 | 1445.6 | 1324.2 |
| 15°   | 1428.2 | 1436.9 | 1510.6 | 1647.1 | 1705.6 | 1707.8 | 1714.3 | 1723.0 | 1625.5 | 1469.4 | 1306.9 |
| 17.5° | 1473.7 | 1497.6 | 1560.4 | 1645.0 | 1655.8 | 1629.8 | 1629.8 | 1666.6 | 1642.8 | 1536.6 | 1369.7 |
| 20°   | 1584.3 | 1575.6 | 1658.0 | 1692.6 | 1634.1 | 1569.1 | 1562.6 | 1625.5 | 1662.3 | 1608.1 | 1484.6 |
| 22.5° | 1694.8 | 1733.8 | 1801.0 | 1723.0 | 1614.6 | 1527.9 | 1519.3 | 1597.3 | 1720.8 | 1731.7 | 1616.8 |
| 25°   | 1861.7 | 1900.7 | 1935.4 | 1840.0 | 1612.5 | 1517.1 | 1523.6 | 1584.3 | 1792.3 | 1907.2 | 1837.9 |
| 27.5° | 2041.6 | 2065.4 | 2115.3 | 1967.9 | 1664.5 | 1504.1 | 1510.6 | 1601.6 | 1859.5 | 2022.1 | 2011.2 |
| 30°   | 2143.4 | 2169.4 | 2158.6 | 1991.7 | 1699.1 | 1512.8 | 1495.4 | 1625.5 | 1822.7 | 2022.1 | 2123.9 |
| 32.5° | 2243.1 | 2228.0 | 2221.5 | 2030.7 | 1742.5 | 1566.9 | 1523.6 | 1675.3 | 1844.4 | 2054.6 | 2269.1 |
| 35°   | 2364.5 | 2342.8 | 2325.5 | 2106.6 | 1814.0 | 1619.0 | 1599.4 | 1740.3 | 1892.0 | 2121.8 | 2386.2 |
| 37.5° | 2498.9 | 2498.9 | 2414.3 | 2162.9 | 1898.5 | 1703.5 | 1681.8 | 1833.5 | 1967.9 | 2162.9 | 2546.5 |
| 40°   | 2657.1 | 2663.6 | 2514.0 | 2238.8 | 1993.9 | 1837.9 | 1831.3 | 1954.9 | 2041.6 | 2223.6 | 2700.4 |
| 42.5° | 2774.1 | 2778.4 | 2600.7 | 2267.0 | 2104.4 | 2024.2 | 2052.4 | 2149.9 | 2126.1 | 2277.8 | 2711.3 |
| 45°   | 2854.3 | 2832.6 | 2661.4 | 2347.2 | 2225.8 | 2303.8 | 2312.5 | 2340.7 | 2236.6 | 2310.3 | 2754.6 |
| 47.5° | 2893.3 | 2889.0 | 2687.4 | 2440.4 | 2481.5 | 2587.7 | 2637.6 | 2598.6 | 2338.5 | 2275.6 | 2754.6 |
| 50°   | 2932.3 | 2895.5 | 2711.3 | 2568.2 | 2730.8 | 2945.3 | 2934.5 | 2863.0 | 2479.4 | 2319.0 | 2713.4 |
| 52.5° | 2958.3 | 2925.8 | 2758.9 | 2683.1 | 2969.2 | 3211.9 | 3255.2 | 3123.0 | 2644.1 | 2399.2 | 2732.9 |
| 55°   | 3051.5 | 3025.5 | 2902.0 | 2839.1 | 3244.4 | 3493.6 | 3500.2 | 3315.9 | 2817.5 | 2531.4 | 2860.8 |
| 57.5° | 3164.2 | 3179.4 | 3099.2 | 3060.2 | 3454.6 | 3699.5 | 3675.7 | 3459.0 | 2964.8 | 2691.8 | 3008.2 |
| 60°   | 3244.4 | 3268.3 | 3248.7 | 3253.1 | 3558.7 | 3768.9 | 3714.7 | 3547.8 | 3073.2 | 2813.1 | 3188.1 |
| 62.5° | 3201.1 | 3248.7 | 3328.9 | 3311.6 | 3563.0 | 3719.0 | 3643.2 | 3430.8 | 3086.2 | 2971.3 | 3324.6 |
| 65°   | 3081.9 | 3086.2 | 3242.2 | 3337.6 | 3367.9 | 3461.1 | 3361.4 | 3185.9 | 2951.8 | 3068.9 | 3305.1 |
| 67.5° | 2776.3 | 2811.0 | 2951.8 | 3138.2 | 3010.3 | 3032.0 | 3023.4 | 2769.8 | 2748.1 | 3001.7 | 3155.6 |
| 70°   | 2451.2 | 2475.0 | 2628.9 | 2847.8 | 2542.2 | 2440.4 | 2459.9 | 2271.3 | 2360.2 | 2793.6 | 2854.3 |
| 72.5° | 2026.4 | 2041.6 | 2217.1 | 2410.0 | 2039.4 | 1857.4 | 1902.9 | 1749.0 | 1874.7 | 2444.7 | 2407.8 |
| 75°   | 1530.1 | 1558.3 | 1694.8 | 1922.4 | 1501.9 | 1384.9 | 1430.4 | 1367.6 | 1484.6 | 2013.4 | 1868.2 |
| 77.5° | 1088.0 | 1066.3 | 1235.3 | 1504.1 | 1129.2 | 1059.8 | 1064.1 | 1075.0 | 1200.7 | 1697.0 | 1341.5 |
| 80°   | 741.2  | 747.7  | 899.4  | 1103.1 | 886.4  | 875.6  | 864.7  | 951.4  | 1007.8 | 1343.7 | 975.3  |
| 82.5° | 440.0  | 440.0  | 606.8  | 784.6  | 700.0  | 788.9  | 739.0  | 817.1  | 788.9  | 988.3  | 639.3  |
| 85°   | 205.9  | 205.9  | 312.1  | 565.7  | 541.8  | 650.2  | 552.7  | 617.7  | 583.0  | 689.2  | 288.2  |
| 87.5° | 34.7   | 30.3   | 62.9   | 277.4  | 223.2  | 253.6  | 99.7   | 329.4  | 366.3  | 481.1  | 71.5   |
| 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°    | 1560.4 | 1560.4 | 1560.4 | 1560.4 | 1560.4 | 1560.4 | 1560.4 | 1560.4 | 1560.4 | 1560.4 | 1560.4 |
| 2.5°  | 1610.3 | 1595.1 | 1564.8 | 1525.8 | 1493.3 | 1452.1 | 1439.1 | 1410.9 | 1371.9 | 1367.6 | 1350.2 |
| 5°    | 1517.1 | 1465.1 | 1400.1 | 1319.9 | 1265.7 | 1209.3 | 1161.7 | 1133.5 | 1101.0 | 1096.6 | 1088.0 |
| 7.5°  | 1415.2 | 1350.2 | 1241.8 | 1146.5 | 1053.3 | 964.4  | 921.1  | 866.9  | 830.1  | 801.9  | 788.9  |
| 10°   | 1319.9 | 1259.2 | 1124.8 | 994.8  | 912.4  | 853.9  | 801.9  | 745.5  | 700.0  | 665.4  | 652.4  |
| 12.5° | 1257.0 | 1185.5 | 1040.3 | 916.8  | 856.1  | 788.9  | 730.4  | 669.7  | 611.2  | 565.7  | 541.8  |
| 15°   | 1228.8 | 1161.7 | 1014.3 | 877.7  | 788.9  | 695.7  | 628.5  | 567.8  | 496.3  | 463.8  | 453.0  |
| 17.5° | 1296.0 | 1196.3 | 1005.6 | 832.2  | 706.5  | 600.3  | 518.0  | 453.0  | 400.9  | 368.4  | 355.4  |
| 20°   | 1382.7 | 1259.2 | 1020.8 | 778.1  | 628.5  | 509.3  | 418.3  | 348.9  | 314.3  | 290.4  | 288.2  |
| 22.5° | 1493.3 | 1352.4 | 1044.6 | 739.0  | 541.8  | 409.6  | 327.3  | 286.1  | 262.2  | 260.1  | 255.7  |
| 25°   | 1690.5 | 1521.4 | 1083.6 | 687.0  | 472.5  | 338.1  | 279.6  | 255.7  | 244.9  | 238.4  | 242.7  |
| 27.5° | 1859.5 | 1632.0 | 1111.8 | 654.5  | 444.3  | 318.6  | 270.9  | 244.9  | 234.1  | 231.9  | 234.1  |
| 30°   | 1959.2 | 1733.8 | 1103.1 | 593.8  | 387.9  | 303.4  | 288.2  | 279.6  | 257.9  | 240.6  | 240.6  |
| 32.5° | 2050.2 | 1798.8 | 1101.0 | 539.7  | 331.6  | 253.6  | 240.6  | 234.1  | 247.1  | 255.7  | 249.2  |
| 35°   | 2175.9 | 1900.7 | 1094.5 | 509.3  | 307.8  | 234.1  | 212.4  | 195.1  | 186.4  | 182.1  | 188.6  |
| 37.5° | 2310.3 | 1970.1 | 1077.1 | 505.0  | 294.7  | 223.2  | 205.9  | 188.6  | 179.9  | 175.5  | 173.4  |
| 40°   | 2457.7 | 2043.7 | 1057.6 | 483.3  | 288.2  | 216.7  | 199.4  | 184.2  | 173.4  | 166.9  | 164.7  |
| 42.5° | 2553.1 | 2102.3 | 1038.1 | 472.5  | 275.2  | 212.4  | 192.9  | 179.9  | 169.0  | 160.4  | 160.4  |
| 45°   | 2607.2 | 2171.6 | 1018.6 | 461.6  | 260.1  | 214.6  | 192.9  | 175.5  | 162.5  | 158.2  | 153.9  |
| 47.5° | 2631.1 | 2223.6 | 1012.1 | 444.3  | 247.1  | 205.9  | 188.6  | 171.2  | 158.2  | 149.5  | 147.4  |
| 50°   | 2693.9 | 2334.2 | 1036.0 | 431.3  | 231.9  | 197.2  | 199.4  | 169.0  | 156.0  | 145.2  | 143.0  |
| 52.5° | 2730.8 | 2423.0 | 1088.0 | 411.8  | 221.1  | 186.4  | 195.1  | 164.7  | 149.5  | 138.7  | 138.7  |
| 55°   | 2865.1 | 2570.4 | 1144.3 | 396.6  | 208.1  | 171.2  | 179.9  | 156.0  | 138.7  | 132.2  | 132.2  |
| 57.5° | 3036.4 | 2726.4 | 1192.0 | 390.1  | 199.4  | 160.4  | 160.4  | 151.7  | 132.2  | 123.5  | 121.4  |
| 60°   | 3155.6 | 2854.3 | 1220.2 | 385.8  | 190.7  | 149.5  | 143.0  | 151.7  | 125.7  | 117.0  | 114.9  |
| 62.5° | 3168.6 | 2780.6 | 1192.0 | 383.6  | 188.6  | 138.7  | 130.0  | 145.2  | 119.2  | 110.5  | 106.2  |
| 65°   | 3086.2 | 2631.1 | 1114.0 | 374.9  | 186.4  | 127.9  | 121.4  | 125.7  | 110.5  | 104.0  | 99.7   |
| 67.5° | 2921.5 | 2388.3 | 1001.3 | 370.6  | 184.2  | 119.2  | 110.5  | 108.4  | 101.9  | 95.4   | 91.0   |
| 70°   | 2537.9 | 2071.9 | 869.1  | 351.1  | 179.9  | 112.7  | 99.7   | 97.5   | 91.0   | 86.7   | 84.5   |
| 72.5° | 2130.4 | 1694.8 | 717.4  | 325.1  | 171.2  | 101.9  | 91.0   | 86.7   | 84.5   | 78.0   | 75.9   |
| 75°   | 1632.0 | 1304.7 | 574.3  | 288.2  | 149.5  | 91.0   | 80.2   | 75.9   | 73.7   | 69.4   | 67.2   |
| 77.5° | 1146.5 | 970.9  | 424.8  | 234.1  | 125.7  | 82.4   | 71.5   | 67.2   | 65.0   | 58.5   | 58.5   |
| 80°   | 778.1  | 680.5  | 288.2  | 162.5  | 97.5   | 67.2   | 62.9   | 58.5   | 54.2   | 49.8   | 49.8   |
| 82.5° | 483.3  | 476.8  | 208.1  | 106.2  | 71.5   | 54.2   | 49.8   | 49.8   | 43.3   | 39.0   | 39.0   |
| 85°   | 221.1  | 292.6  | 145.2  | 73.7   | 54.2   | 41.2   | 41.2   | 39.0   | 34.7   | 28.2   | 28.2   |
| 87.5° | 69.4   | 97.5   | 75.9   | 32.5   | 30.3   | 23.8   | 23.8   | 21.7   | 21.7   | 17.3   | 17.3   |
| 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°    | 1560.4 | 1560.4 | 1560.4 | 1560.4 | 1560.4 | 1560.4 | 1560.4 | 1560.4 | 1560.4 | 1560.4 | 1560.4 |
| 2.5°  | 1367.6 | 1365.4 | 1365.4 | 1356.7 | 1378.4 | 1378.4 | 1391.4 | 1380.6 | 1387.1 | 1389.2 | 1406.6 |
| 5°    | 1085.8 | 1103.1 | 1116.1 | 1142.2 | 1157.3 | 1163.8 | 1163.8 | 1181.2 | 1174.7 | 1187.7 | 1213.7 |
| 7.5°  | 795.4  | 817.1  | 856.1  | 888.6  | 914.6  | 923.3  | 921.1  | 925.4  | 931.9  | 916.8  | 921.1  |
| 10°   | 643.7  | 628.5  | 641.5  | 671.9  | 695.7  | 723.9  | 702.2  | 700.0  | 706.5  | 700.0  | 713.0  |
| 12.5° | 537.5  | 520.1  | 509.3  | 509.3  | 526.6  | 539.7  | 533.1  | 544.0  | 567.8  | 574.3  | 589.5  |
| 15°   | 435.6  | 420.5  | 411.8  | 400.9  | 418.3  | 422.6  | 429.1  | 444.3  | 461.6  | 470.3  | 487.6  |
| 17.5° | 348.9  | 348.9  | 348.9  | 340.3  | 346.8  | 353.3  | 355.4  | 374.9  | 377.1  | 385.8  | 392.3  |
| 20°   | 286.1  | 292.6  | 303.4  | 307.8  | 314.3  | 314.3  | 309.9  | 320.8  | 312.1  | 318.6  | 322.9  |
| 22.5° | 257.9  | 266.6  | 270.9  | 273.1  | 281.7  | 283.9  | 273.1  | 275.2  | 277.4  | 270.9  | 273.1  |
| 25°   | 242.7  | 247.1  | 242.7  | 244.9  | 247.1  | 242.7  | 244.9  | 249.2  | 247.1  | 251.4  | 249.2  |
| 27.5° | 236.2  | 231.9  | 229.7  | 227.6  | 227.6  | 223.2  | 225.4  | 225.4  | 229.7  | 231.9  | 231.9  |
| 30°   | 236.2  | 229.7  | 221.1  | 214.6  | 214.6  | 208.1  | 212.4  | 216.7  | 218.9  | 223.2  | 223.2  |
| 32.5° | 242.7  | 229.7  | 214.6  | 208.1  | 201.6  | 197.2  | 201.6  | 208.1  | 216.7  | 218.9  | 221.1  |
| 35°   | 192.9  | 199.4  | 197.2  | 188.6  | 186.4  | 186.4  | 184.2  | 184.2  | 177.7  | 177.7  | 175.5  |
| 37.5° | 173.4  | 171.2  | 175.5  | 177.7  | 179.9  | 173.4  | 173.4  | 164.7  | 162.5  | 164.7  | 164.7  |
| 40°   | 162.5  | 162.5  | 162.5  | 169.0  | 171.2  | 166.9  | 160.4  | 156.0  | 156.0  | 156.0  | 158.2  |
| 42.5° | 158.2  | 153.9  | 151.7  | 156.0  | 162.5  | 158.2  | 151.7  | 149.5  | 149.5  | 151.7  | 151.7  |
| 45°   | 151.7  | 149.5  | 147.4  | 145.2  | 153.9  | 147.4  | 145.2  | 143.0  | 143.0  | 143.0  | 145.2  |
| 47.5° | 145.2  | 143.0  | 138.7  | 138.7  | 140.9  | 138.7  | 136.5  | 136.5  | 136.5  | 140.9  | 140.9  |
| 50°   | 140.9  | 138.7  | 134.4  | 134.4  | 134.4  | 134.4  | 132.2  | 132.2  | 132.2  | 134.4  | 136.5  |
| 52.5° | 134.4  | 132.2  | 130.0  | 127.9  | 127.9  | 127.9  | 127.9  | 127.9  | 127.9  | 130.0  | 132.2  |
| 55°   | 127.9  | 125.7  | 123.5  | 123.5  | 125.7  | 125.7  | 123.5  | 125.7  | 123.5  | 125.7  | 127.9  |
| 57.5° | 121.4  | 119.2  | 117.0  | 119.2  | 121.4  | 119.2  | 119.2  | 119.2  | 119.2  | 119.2  | 121.4  |
| 60°   | 112.7  | 112.7  | 112.7  | 112.7  | 117.0  | 117.0  | 117.0  | 117.0  | 112.7  | 114.9  | 117.0  |
| 62.5° | 108.4  | 106.2  | 106.2  | 108.4  | 110.5  | 110.5  | 112.7  | 110.5  | 108.4  | 110.5  | 110.5  |
| 65°   | 99.7   | 99.7   | 99.7   | 101.9  | 101.9  | 104.0  | 104.0  | 104.0  | 101.9  | 104.0  | 104.0  |
| 67.5° | 93.2   | 93.2   | 93.2   | 93.2   | 97.5   | 97.5   | 97.5   | 97.5   | 95.4   | 95.4   | 97.5   |
| 70°   | 82.4   | 84.5   | 82.4   | 86.7   | 91.0   | 88.9   | 91.0   | 91.0   | 88.9   | 86.7   | 91.0   |
| 72.5° | 75.9   | 75.9   | 75.9   | 75.9   | 82.4   | 82.4   | 82.4   | 84.5   | 82.4   | 80.2   | 82.4   |
| 75°   | 67.2   | 67.2   | 67.2   | 69.4   | 73.7   | 73.7   | 73.7   | 73.7   | 73.7   | 71.5   | 71.5   |
| 77.5° | 58.5   | 60.7   | 58.5   | 60.7   | 65.0   | 62.9   | 65.0   | 67.2   | 65.0   | 62.9   | 62.9   |
| 80°   | 49.8   | 49.8   | 49.8   | 52.0   | 54.2   | 54.2   | 54.2   | 56.3   | 54.2   | 52.0   | 52.0   |
| 82.5° | 39.0   | 39.0   | 41.2   | 41.2   | 43.3   | 43.3   | 43.3   | 45.5   | 43.3   | 41.2   | 41.2   |
| 85°   | 30.3   | 30.3   | 30.3   | 32.5   | 32.5   | 34.7   | 34.7   | 36.8   | 36.8   | 34.7   | 34.7   |
| 87.5° | 19.5   | 17.3   | 19.5   | 19.5   | 21.7   | 21.7   | 19.5   | 17.3   | 19.5   | 17.3   | 15.2   |
| 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°    | 1560.4 | 1560.4 | 1560.4 | 1560.4 | 1560.4 | 1560.4 | 1560.4 | 1560.4 | 1560.4 | 1560.4 |
| 2.5°  | 1423.9 | 1462.9 | 1491.1 | 1510.6 | 1538.8 | 1592.9 | 1614.6 | 1653.6 | 1664.5 | 1671.0 |
| 5°    | 1224.5 | 1265.7 | 1326.4 | 1369.7 | 1419.6 | 1521.4 | 1599.4 | 1658.0 | 1684.0 | 1707.8 |
| 7.5°  | 960.1  | 1014.3 | 1077.1 | 1133.5 | 1215.8 | 1341.5 | 1443.4 | 1564.8 | 1610.3 | 1634.1 |
| 10°   | 749.9  | 799.7  | 869.1  | 938.4  | 1053.3 | 1159.5 | 1304.7 | 1415.2 | 1478.1 | 1495.4 |
| 12.5° | 632.8  | 691.4  | 773.7  | 858.2  | 929.8  | 1051.1 | 1198.5 | 1358.9 | 1417.4 | 1428.2 |
| 15°   | 537.5  | 617.7  | 702.2  | 788.9  | 871.2  | 977.4  | 1135.7 | 1330.7 | 1417.4 | 1428.2 |
| 17.5° | 444.3  | 515.8  | 615.5  | 708.7  | 804.1  | 949.3  | 1146.5 | 1354.5 | 1441.2 | 1473.7 |
| 20°   | 353.3  | 422.6  | 500.6  | 617.7  | 747.7  | 901.6  | 1170.3 | 1434.7 | 1549.6 | 1584.3 |
| 22.5° | 292.6  | 322.9  | 398.8  | 511.5  | 665.4  | 869.1  | 1194.2 | 1560.4 | 1681.8 | 1694.8 |
| 25°   | 255.7  | 277.4  | 325.1  | 431.3  | 600.3  | 847.4  | 1250.5 | 1705.6 | 1861.7 | 1861.7 |
| 27.5° | 238.4  | 247.1  | 279.6  | 374.9  | 554.8  | 827.9  | 1306.9 | 1866.0 | 2011.2 | 2041.6 |
| 30°   | 234.1  | 255.7  | 273.1  | 333.8  | 505.0  | 773.7  | 1358.9 | 1991.7 | 2141.3 | 2143.4 |
| 32.5° | 229.7  | 225.4  | 238.4  | 290.4  | 444.3  | 717.4  | 1402.2 | 2119.6 | 2236.6 | 2243.1 |
| 35°   | 179.9  | 188.6  | 210.2  | 255.7  | 398.8  | 676.2  | 1423.9 | 2188.9 | 2358.0 | 2364.5 |
| 37.5° | 169.0  | 179.9  | 197.2  | 236.2  | 368.4  | 641.5  | 1430.4 | 2323.3 | 2485.9 | 2498.9 |
| 40°   | 164.7  | 173.4  | 186.4  | 218.9  | 344.6  | 598.2  | 1443.4 | 2462.0 | 2674.4 | 2657.1 |
| 42.5° | 156.0  | 166.9  | 179.9  | 210.2  | 325.1  | 565.7  | 1445.6 | 2537.9 | 2774.1 | 2774.1 |
| 45°   | 153.9  | 160.4  | 175.5  | 210.2  | 303.4  | 537.5  | 1410.9 | 2613.7 | 2889.0 | 2854.3 |
| 47.5° | 145.2  | 158.2  | 171.2  | 203.7  | 277.4  | 509.3  | 1369.7 | 2652.7 | 2904.2 | 2893.3 |
| 50°   | 143.0  | 156.0  | 177.7  | 192.9  | 262.2  | 496.3  | 1361.0 | 2750.3 | 2934.5 | 2932.3 |
| 52.5° | 138.7  | 151.7  | 184.2  | 184.2  | 242.7  | 479.0  | 1402.2 | 2793.6 | 2941.0 | 2958.3 |
| 55°   | 132.2  | 151.7  | 171.2  | 169.0  | 225.4  | 457.3  | 1447.7 | 2906.3 | 3055.9 | 3051.5 |
| 57.5° | 127.9  | 147.4  | 162.5  | 153.9  | 205.9  | 442.1  | 1514.9 | 3014.7 | 3194.6 | 3164.2 |
| 60°   | 121.4  | 147.4  | 145.2  | 143.0  | 190.7  | 429.1  | 1571.3 | 3036.4 | 3224.9 | 3244.4 |
| 62.5° | 117.0  | 153.9  | 127.9  | 132.2  | 177.7  | 422.6  | 1547.4 | 2873.8 | 3183.7 | 3201.1 |
| 65°   | 112.7  | 132.2  | 117.0  | 121.4  | 173.4  | 409.6  | 1454.2 | 2678.8 | 3006.0 | 3081.9 |
| 67.5° | 104.0  | 108.4  | 108.4  | 112.7  | 169.0  | 379.3  | 1263.5 | 2327.7 | 2735.1 | 2776.3 |
| 70°   | 95.4   | 97.5   | 97.5   | 104.0  | 164.7  | 344.6  | 1042.5 | 2013.4 | 2373.2 | 2451.2 |
| 72.5° | 86.7   | 86.7   | 86.7   | 95.4   | 151.7  | 316.4  | 858.2  | 1547.4 | 1972.2 | 2026.4 |
| 75°   | 75.9   | 75.9   | 75.9   | 84.5   | 136.5  | 288.2  | 676.2  | 1150.8 | 1452.1 | 1530.1 |
| 77.5° | 67.2   | 67.2   | 65.0   | 75.9   | 119.2  | 234.1  | 487.6  | 812.7  | 1023.0 | 1088.0 |
| 80°   | 56.3   | 54.2   | 54.2   | 60.7   | 93.2   | 169.0  | 314.3  | 574.3  | 713.0  | 741.2  |
| 82.5° | 45.5   | 43.3   | 41.2   | 45.5   | 67.2   | 106.2  | 195.1  | 400.9  | 457.3  | 440.0  |
| 85°   | 43.3   | 45.5   | 36.8   | 34.7   | 47.7   | 69.4   | 123.5  | 247.1  | 205.9  | 205.9  |
| 87.5° | 17.3   | 15.2   | 15.2   | 13.0   | 23.8   | 26.0   | 54.2   | 45.5   | 34.7   | 34.7   |
| 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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