

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P572045

Luminaire Tested: 22ID-70-L835-SWR

Issue Date: 10/5/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P572045  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 22ID-70-L835-SWR  
Description: 7000 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN REGRESSED SWEEP LENS AND 3500K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7025.0 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.2 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

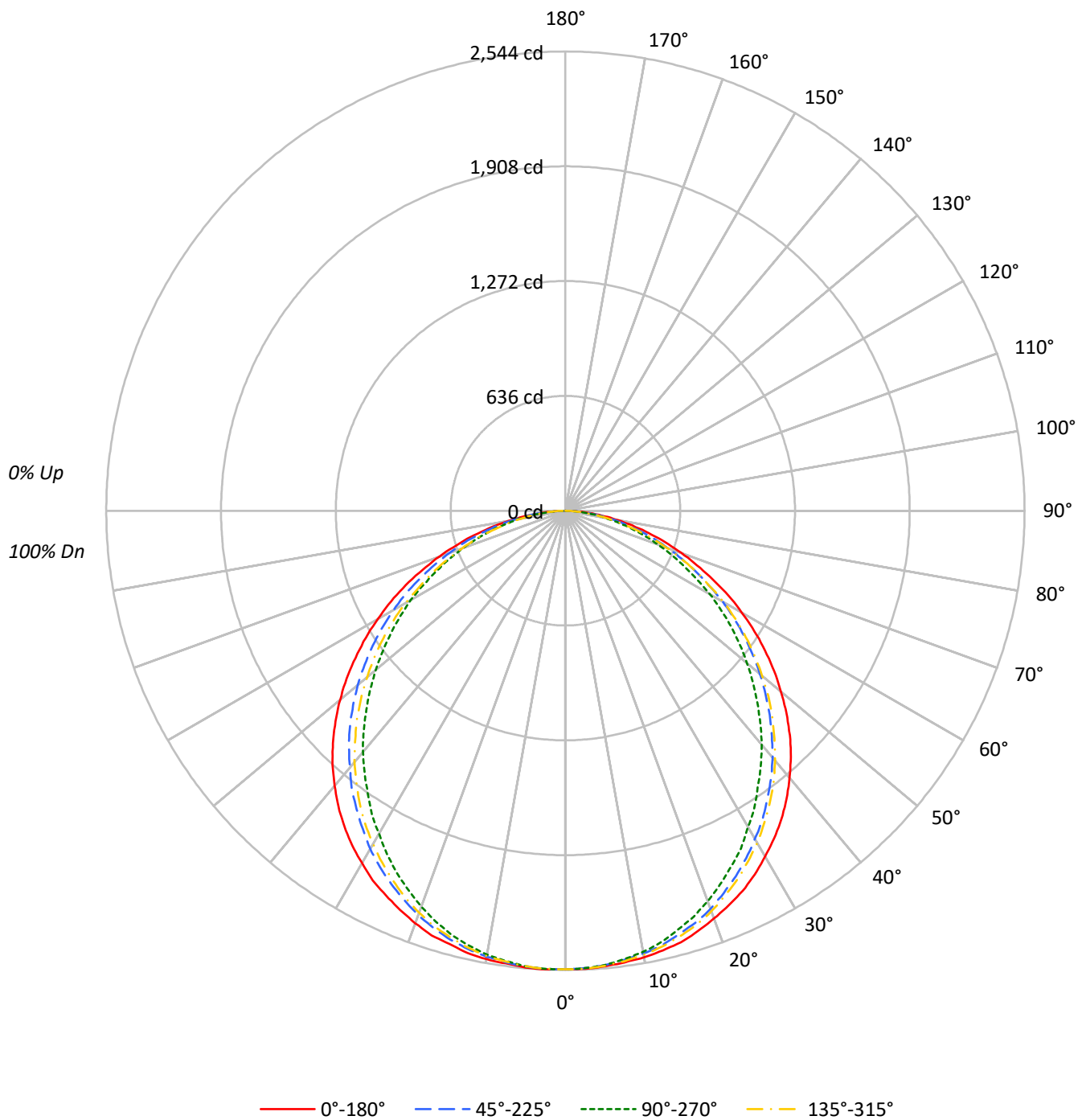
Input Watts (W): 61.1  
Input Voltage (V):  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 95  | 98  | 94  | 92  | 94  | 91  | 89  | 90  | 88  | 86  |
| 2   | 99  | 91  | 84  | 78  | 96  | 89  | 83  | 77  | 85  | 80  | 76  | 82  | 78  | 74  | 79  | 76  | 72  |
| 3   | 90  | 80  | 72  | 65  | 88  | 78  | 71  | 65  | 75  | 69  | 64  | 73  | 67  | 62  | 70  | 65  | 61  |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  | 65  | 58  | 53  | 62  | 57  | 53  |
| 5   | 76  | 63  | 54  | 48  | 74  | 62  | 54  | 47  | 60  | 53  | 47  | 58  | 52  | 46  | 56  | 51  | 46  |
| 6   | 70  | 57  | 48  | 42  | 68  | 56  | 48  | 42  | 54  | 47  | 41  | 53  | 46  | 41  | 51  | 45  | 40  |
| 7   | 65  | 52  | 43  | 37  | 64  | 51  | 43  | 37  | 49  | 42  | 36  | 48  | 41  | 36  | 47  | 41  | 36  |
| 8   | 61  | 47  | 39  | 33  | 59  | 47  | 38  | 33  | 45  | 38  | 33  | 44  | 37  | 32  | 43  | 37  | 32  |
| 9   | 57  | 43  | 35  | 30  | 55  | 43  | 35  | 30  | 42  | 34  | 29  | 41  | 34  | 29  | 40  | 33  | 29  |
| 10  | 53  | 40  | 32  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 26  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 6835 | 6835 | 6835 | 6835 |
| 5°  | 6843 | 6824 | 6861 | 6843 |
| 10° | 6865 | 6779 | 6893 | 6827 |
| 15° | 6892 | 6698 | 6921 | 6775 |
| 20° | 6885 | 6595 | 6964 | 6685 |
| 25° | 6900 | 6454 | 6983 | 6568 |
| 30° | 6874 | 6288 | 7004 | 6418 |
| 35° | 6854 | 6110 | 7015 | 6270 |
| 40° | 6790 | 5945 | 6987 | 6128 |
| 45° | 6693 | 5723 | 6932 | 5936 |
| 50° | 6530 | 5507 | 6822 | 5741 |
| 55° | 6335 | 5255 | 6663 | 5533 |
| 60° | 6084 | 4976 | 6460 | 5314 |
| 65° | 5732 | 4621 | 6221 | 4999 |
| 70° | 5381 | 4282 | 5847 | 4722 |
| 75° | 4970 | 3881 | 5442 | 4390 |
| 80° | 4488 | 3406 | 4812 | 3947 |
| 85° | 3662 | 2800 | 3770 | 3341 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 6932 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 240.6  | 3.4       |
| 10°-20°   | 690.3  | 9.8       |
| 20°-30°   | 1042.0 | 14.8      |
| 30°-40°   | 1244.2 | 17.7      |
| 40°-50°   | 1269.5 | 18.1      |
| 50°-60°   | 1119.6 | 15.9      |
| 60°-70°   | 827.4  | 11.8      |
| 70°-80°   | 466.5  | 6.6       |
| 80°-90°   | 124.9  | 1.8       |
| 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°-30°    | 1973.0 | 28.1      |
| 0°-40°    | 3217.1 | 45.8      |
| 0°-60°    | 5606.2 | 79.8      |
| 0°-90°    | 7025.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7025.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2540 | 2540 | 2540 | 2540 | 2540 |      |
| 5°  | 2533 | 2526 | 2540 | 2533 | 2533 | 241  |
| 15° | 2474 | 2404 | 2484 | 2432 | 2474 | 698  |
| 25° | 2324 | 2174 | 2352 | 2212 | 2324 | 1070 |
| 35° | 2086 | 1860 | 2135 | 1909 | 2086 | 1304 |
| 45° | 1759 | 1504 | 1821 | 1560 | 1759 | 1354 |
| 55° | 1350 | 1120 | 1420 | 1179 | 1350 | 1207 |
| 65° | 900  | 726  | 977  | 785  | 900  | 894  |
| 75° | 478  | 373  | 523  | 422  | 478  | 507  |
| 85° | 119  | 91   | 122  | 108  | 119  | 139  |
| 90° | 0    | 0    | 0    | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 |
| 2.5°  | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2536.7 | 2533.2 | 2533.2 | 2536.7 | 2536.7 | 2533.2 | 2536.7 |
| 5°    | 2533.2 | 2533.2 | 2533.2 | 2529.7 | 2526.2 | 2526.2 | 2526.2 | 2526.2 | 2522.7 | 2526.2 | 2526.2 |
| 7.5°  | 2522.7 | 2522.7 | 2522.7 | 2519.2 | 2515.7 | 2515.7 | 2515.7 | 2512.2 | 2508.7 | 2512.2 | 2508.7 |
| 10°   | 2512.2 | 2508.7 | 2508.7 | 2508.7 | 2501.8 | 2498.3 | 2498.3 | 2498.3 | 2494.8 | 2494.8 | 2491.3 |
| 12.5° | 2494.8 | 2491.3 | 2491.3 | 2487.8 | 2484.3 | 2480.8 | 2477.3 | 2473.9 | 2470.4 | 2466.9 | 2466.9 |
| 15°   | 2473.9 | 2473.9 | 2466.9 | 2463.4 | 2456.4 | 2452.9 | 2449.4 | 2445.9 | 2439.0 | 2435.5 | 2428.5 |
| 17.5° | 2442.4 | 2442.4 | 2435.5 | 2432.0 | 2425.0 | 2418.0 | 2418.0 | 2411.0 | 2404.1 | 2397.1 | 2393.6 |
| 20°   | 2404.1 | 2407.6 | 2404.1 | 2397.1 | 2386.6 | 2383.1 | 2379.6 | 2372.7 | 2362.2 | 2355.2 | 2348.2 |
| 22.5° | 2365.7 | 2369.2 | 2362.2 | 2351.7 | 2344.8 | 2341.3 | 2334.3 | 2323.8 | 2313.3 | 2302.9 | 2292.4 |
| 25°   | 2323.8 | 2320.3 | 2313.3 | 2306.4 | 2295.9 | 2292.4 | 2285.4 | 2275.0 | 2257.5 | 2247.1 | 2233.1 |
| 27.5° | 2271.5 | 2271.5 | 2261.0 | 2254.0 | 2236.6 | 2236.6 | 2226.1 | 2212.2 | 2198.2 | 2180.8 | 2170.3 |
| 30°   | 2212.2 | 2212.2 | 2205.2 | 2194.7 | 2177.3 | 2173.8 | 2163.3 | 2152.8 | 2131.9 | 2114.5 | 2100.5 |
| 32.5° | 2152.8 | 2149.4 | 2142.4 | 2131.9 | 2114.5 | 2107.5 | 2097.0 | 2083.1 | 2065.6 | 2041.2 | 2030.7 |
| 35°   | 2086.5 | 2083.1 | 2072.6 | 2058.6 | 2044.7 | 2037.7 | 2027.2 | 2009.8 | 1992.3 | 1967.9 | 1950.5 |
| 37.5° | 2013.3 | 2009.8 | 1999.3 | 1985.4 | 1967.9 | 1960.9 | 1950.5 | 1933.0 | 1908.6 | 1891.2 | 1870.2 |
| 40°   | 1933.0 | 1929.5 | 1922.6 | 1908.6 | 1891.2 | 1884.2 | 1870.2 | 1852.8 | 1824.9 | 1803.9 | 1786.5 |
| 42.5° | 1849.3 | 1845.8 | 1835.3 | 1817.9 | 1803.9 | 1796.9 | 1783.0 | 1765.5 | 1741.1 | 1716.7 | 1692.3 |
| 45°   | 1758.6 | 1755.1 | 1744.6 | 1723.7 | 1713.2 | 1702.7 | 1688.8 | 1671.3 | 1650.4 | 1629.5 | 1601.5 |
| 47.5° | 1660.9 | 1657.4 | 1650.4 | 1633.0 | 1612.0 | 1608.5 | 1594.6 | 1577.1 | 1552.7 | 1524.8 | 1503.9 |
| 50°   | 1559.7 | 1559.7 | 1549.2 | 1535.3 | 1521.3 | 1510.8 | 1496.9 | 1479.4 | 1448.0 | 1430.6 | 1406.2 |
| 52.5° | 1458.5 | 1455.0 | 1448.0 | 1430.6 | 1420.1 | 1409.6 | 1392.2 | 1381.7 | 1350.3 | 1336.4 | 1308.5 |
| 55°   | 1350.3 | 1346.8 | 1332.9 | 1322.4 | 1315.4 | 1305.0 | 1291.0 | 1270.1 | 1252.6 | 1231.7 | 1207.3 |
| 57.5° | 1242.2 | 1238.7 | 1228.2 | 1221.2 | 1207.3 | 1196.8 | 1182.8 | 1168.9 | 1144.5 | 1130.5 | 1106.1 |
| 60°   | 1130.5 | 1130.5 | 1123.5 | 1113.1 | 1099.1 | 1088.6 | 1078.2 | 1064.2 | 1043.3 | 1022.3 | 1004.9 |
| 62.5° | 1018.9 | 1018.9 | 1008.4 | 997.9  | 990.9  | 980.5  | 973.5  | 956.0  | 938.6  | 924.6  | 896.7  |
| 65°   | 900.2  | 900.2  | 886.3  | 882.8  | 875.8  | 868.8  | 858.3  | 840.9  | 830.4  | 806.0  | 795.5  |
| 67.5° | 788.6  | 792.1  | 781.6  | 781.6  | 771.1  | 764.1  | 753.7  | 739.7  | 729.2  | 708.3  | 697.8  |
| 70°   | 683.9  | 687.4  | 680.4  | 676.9  | 666.4  | 659.5  | 652.5  | 642.0  | 628.1  | 621.1  | 603.6  |
| 72.5° | 579.2  | 582.7  | 575.7  | 575.7  | 565.3  | 561.8  | 554.8  | 547.8  | 533.8  | 526.9  | 509.4  |
| 75°   | 478.0  | 474.5  | 474.5  | 478.0  | 467.6  | 464.1  | 460.6  | 446.6  | 439.6  | 432.7  | 418.7  |
| 77.5° | 380.3  | 380.3  | 383.8  | 380.3  | 373.3  | 369.9  | 362.9  | 352.4  | 348.9  | 345.4  | 331.5  |
| 80°   | 289.6  | 293.1  | 293.1  | 289.6  | 282.6  | 279.1  | 275.6  | 265.2  | 261.7  | 261.7  | 251.2  |
| 82.5° | 202.4  | 202.4  | 198.9  | 202.4  | 195.4  | 191.9  | 195.4  | 184.9  | 181.4  | 181.4  | 174.5  |
| 85°   | 118.6  | 115.1  | 115.1  | 118.6  | 115.1  | 115.1  | 115.1  | 108.2  | 108.2  | 108.2  | 101.2  |
| 87.5° | 45.4   | 45.4   | 48.8   | 48.8   | 45.4   | 45.4   | 45.4   | 45.4   | 41.9   | 41.9   | 38.4   |
| 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):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 |
| 2.5°  | 2533.2 | 2533.2 | 2533.2 | 2533.2 | 2536.7 | 2533.2 | 2536.7 | 2536.7 | 2540.1 | 2536.7 | 2540.1 |
| 5°    | 2526.2 | 2526.2 | 2522.7 | 2522.7 | 2522.7 | 2522.7 | 2522.7 | 2522.7 | 2522.7 | 2526.2 | 2526.2 |
| 7.5°  | 2508.7 | 2508.7 | 2505.3 | 2505.3 | 2505.3 | 2505.3 | 2501.8 | 2501.8 | 2505.3 | 2505.3 | 2505.3 |
| 10°   | 2487.8 | 2484.3 | 2480.8 | 2480.8 | 2480.8 | 2480.8 | 2477.3 | 2480.8 | 2480.8 | 2480.8 | 2480.8 |
| 12.5° | 2456.4 | 2456.4 | 2452.9 | 2449.4 | 2449.4 | 2449.4 | 2445.9 | 2449.4 | 2449.4 | 2449.4 | 2449.4 |
| 15°   | 2425.0 | 2421.5 | 2418.0 | 2411.0 | 2411.0 | 2407.6 | 2404.1 | 2407.6 | 2404.1 | 2404.1 | 2407.6 |
| 17.5° | 2379.6 | 2379.6 | 2372.7 | 2369.2 | 2365.7 | 2362.2 | 2358.7 | 2358.7 | 2358.7 | 2358.7 | 2365.7 |
| 20°   | 2334.3 | 2330.8 | 2323.8 | 2309.9 | 2313.3 | 2309.9 | 2302.9 | 2306.4 | 2306.4 | 2302.9 | 2302.9 |
| 22.5° | 2285.4 | 2271.5 | 2264.5 | 2250.5 | 2254.0 | 2247.1 | 2243.6 | 2247.1 | 2243.6 | 2240.1 | 2247.1 |
| 25°   | 2219.1 | 2212.2 | 2194.7 | 2194.7 | 2187.7 | 2184.2 | 2184.2 | 2180.8 | 2177.3 | 2173.8 | 2180.8 |
| 27.5° | 2159.8 | 2145.9 | 2135.4 | 2121.4 | 2114.5 | 2114.5 | 2111.0 | 2107.5 | 2100.5 | 2107.5 | 2107.5 |
| 30°   | 2086.5 | 2072.6 | 2055.1 | 2048.2 | 2041.2 | 2041.2 | 2034.2 | 2030.7 | 2023.7 | 2023.7 | 2034.2 |
| 32.5° | 2016.8 | 1995.8 | 1978.4 | 1967.9 | 1964.4 | 1960.9 | 1957.4 | 1943.5 | 1947.0 | 1950.5 | 1954.0 |
| 35°   | 1933.0 | 1915.6 | 1901.6 | 1891.2 | 1880.7 | 1877.2 | 1873.7 | 1863.2 | 1863.2 | 1859.8 | 1870.2 |
| 37.5° | 1852.8 | 1831.8 | 1821.4 | 1803.9 | 1796.9 | 1790.0 | 1786.5 | 1779.5 | 1776.0 | 1779.5 | 1783.0 |
| 40°   | 1765.5 | 1748.1 | 1730.7 | 1713.2 | 1706.2 | 1702.7 | 1692.3 | 1692.3 | 1685.3 | 1692.3 | 1692.3 |
| 42.5° | 1674.8 | 1657.4 | 1636.4 | 1622.5 | 1615.5 | 1608.5 | 1601.5 | 1598.1 | 1598.1 | 1598.1 | 1601.5 |
| 45°   | 1584.1 | 1563.2 | 1542.2 | 1528.3 | 1521.3 | 1517.8 | 1507.3 | 1503.9 | 1496.9 | 1503.9 | 1507.3 |
| 47.5° | 1486.4 | 1469.0 | 1448.0 | 1437.6 | 1427.1 | 1423.6 | 1413.1 | 1406.2 | 1402.7 | 1409.6 | 1409.6 |
| 50°   | 1388.7 | 1371.3 | 1353.8 | 1339.9 | 1329.4 | 1325.9 | 1315.4 | 1315.4 | 1308.5 | 1315.4 | 1315.4 |
| 52.5° | 1291.0 | 1273.6 | 1256.1 | 1238.7 | 1231.7 | 1228.2 | 1217.7 | 1217.7 | 1217.7 | 1217.7 | 1217.7 |
| 55°   | 1193.3 | 1168.9 | 1158.4 | 1141.0 | 1134.0 | 1130.5 | 1127.0 | 1116.5 | 1120.0 | 1120.0 | 1120.0 |
| 57.5° | 1092.1 | 1074.7 | 1053.7 | 1046.8 | 1036.3 | 1032.8 | 1032.8 | 1018.9 | 1015.4 | 1022.3 | 1022.3 |
| 60°   | 990.9  | 977.0  | 956.0  | 945.6  | 938.6  | 938.6  | 928.1  | 914.2  | 910.7  | 924.6  | 924.6  |
| 62.5° | 886.3  | 865.3  | 854.9  | 844.4  | 837.4  | 833.9  | 830.4  | 820.0  | 823.5  | 820.0  | 820.0  |
| 65°   | 788.6  | 767.6  | 760.6  | 750.2  | 743.2  | 739.7  | 736.2  | 729.2  | 722.3  | 725.8  | 725.8  |
| 67.5° | 690.9  | 673.4  | 663.0  | 656.0  | 649.0  | 649.0  | 642.0  | 635.0  | 638.5  | 635.0  | 635.0  |
| 70°   | 596.7  | 582.7  | 568.7  | 565.3  | 558.3  | 558.3  | 554.8  | 551.3  | 547.8  | 544.3  | 544.3  |
| 72.5° | 505.9  | 492.0  | 481.5  | 474.5  | 471.0  | 471.0  | 467.6  | 457.1  | 460.6  | 457.1  | 457.1  |
| 75°   | 411.7  | 401.3  | 397.8  | 390.8  | 387.3  | 387.3  | 383.8  | 376.8  | 380.3  | 373.3  | 366.4  |
| 77.5° | 328.0  | 317.5  | 314.0  | 310.5  | 314.0  | 310.5  | 300.1  | 303.6  | 300.1  | 293.1  | 293.1  |
| 80°   | 251.2  | 240.8  | 240.8  | 233.8  | 230.3  | 230.3  | 226.8  | 226.8  | 223.3  | 219.8  | 219.8  |
| 82.5° | 171.0  | 167.5  | 164.0  | 160.5  | 157.0  | 164.0  | 157.0  | 153.5  | 153.5  | 153.5  | 150.0  |
| 85°   | 97.7   | 97.7   | 94.2   | 94.2   | 90.7   | 94.2   | 90.7   | 87.2   | 90.7   | 90.7   | 83.7   |
| 87.5° | 38.4   | 41.9   | 34.9   | 34.9   | 34.9   | 34.9   | 31.4   | 34.9   | 34.9   | 34.9   | 31.4   |
| 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):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 |
| 2.5°  | 2540.1 | 2536.7 | 2536.7 | 2536.7 | 2536.7 | 2533.2 | 2536.7 | 2536.7 | 2540.1 | 2536.7 | 2536.7 |
| 5°    | 2526.2 | 2522.7 | 2526.2 | 2522.7 | 2522.7 | 2526.2 | 2526.2 | 2529.7 | 2529.7 | 2533.2 | 2533.2 |
| 7.5°  | 2505.3 | 2505.3 | 2505.3 | 2505.3 | 2505.3 | 2508.7 | 2508.7 | 2512.2 | 2515.7 | 2515.7 | 2519.2 |
| 10°   | 2480.8 | 2480.8 | 2484.3 | 2480.8 | 2484.3 | 2487.8 | 2491.3 | 2494.8 | 2498.3 | 2501.8 | 2501.8 |
| 12.5° | 2449.4 | 2449.4 | 2449.4 | 2456.4 | 2456.4 | 2459.9 | 2463.4 | 2470.4 | 2473.9 | 2480.8 | 2480.8 |
| 15°   | 2407.6 | 2407.6 | 2414.5 | 2414.5 | 2418.0 | 2425.0 | 2432.0 | 2435.5 | 2442.4 | 2449.4 | 2452.9 |
| 17.5° | 2362.2 | 2362.2 | 2369.2 | 2369.2 | 2372.7 | 2383.1 | 2390.1 | 2393.6 | 2407.6 | 2414.5 | 2421.5 |
| 20°   | 2309.9 | 2309.9 | 2320.3 | 2316.8 | 2323.8 | 2334.3 | 2341.3 | 2351.7 | 2362.2 | 2372.7 | 2379.6 |
| 22.5° | 2247.1 | 2250.5 | 2261.0 | 2261.0 | 2264.5 | 2278.5 | 2288.9 | 2299.4 | 2309.9 | 2323.8 | 2334.3 |
| 25°   | 2180.8 | 2184.2 | 2194.7 | 2198.2 | 2201.7 | 2215.7 | 2229.6 | 2236.6 | 2254.0 | 2271.5 | 2278.5 |
| 27.5° | 2107.5 | 2114.5 | 2121.4 | 2124.9 | 2131.9 | 2149.4 | 2163.3 | 2177.3 | 2191.2 | 2208.7 | 2222.6 |
| 30°   | 2034.2 | 2041.2 | 2048.2 | 2051.7 | 2058.6 | 2076.1 | 2090.0 | 2107.5 | 2124.9 | 2142.4 | 2156.3 |
| 32.5° | 1950.5 | 1960.9 | 1967.9 | 1974.9 | 1978.4 | 1999.3 | 2016.8 | 2034.2 | 2051.7 | 2072.6 | 2090.0 |
| 35°   | 1870.2 | 1880.7 | 1887.7 | 1891.2 | 1898.1 | 1919.1 | 1933.0 | 1950.5 | 1974.9 | 1995.8 | 2013.3 |
| 37.5° | 1783.0 | 1790.0 | 1803.9 | 1803.9 | 1810.9 | 1835.3 | 1852.8 | 1870.2 | 1894.6 | 1915.6 | 1936.5 |
| 40°   | 1695.8 | 1699.2 | 1713.2 | 1716.7 | 1723.7 | 1748.1 | 1765.5 | 1790.0 | 1807.4 | 1831.8 | 1852.8 |
| 42.5° | 1601.5 | 1612.0 | 1626.0 | 1633.0 | 1639.9 | 1653.9 | 1667.8 | 1695.8 | 1713.2 | 1741.1 | 1762.1 |
| 45°   | 1507.3 | 1517.8 | 1524.8 | 1528.3 | 1545.7 | 1559.7 | 1573.6 | 1601.5 | 1622.5 | 1646.9 | 1671.3 |
| 47.5° | 1413.1 | 1420.1 | 1430.6 | 1444.5 | 1451.5 | 1465.5 | 1475.9 | 1503.9 | 1524.8 | 1552.7 | 1573.6 |
| 50°   | 1315.4 | 1325.9 | 1332.9 | 1336.4 | 1350.3 | 1367.8 | 1381.7 | 1406.2 | 1423.6 | 1451.5 | 1475.9 |
| 52.5° | 1217.7 | 1231.7 | 1231.7 | 1245.6 | 1252.6 | 1259.6 | 1280.5 | 1305.0 | 1322.4 | 1346.8 | 1371.3 |
| 55°   | 1123.5 | 1130.5 | 1141.0 | 1144.5 | 1154.9 | 1161.9 | 1175.9 | 1200.3 | 1221.2 | 1245.6 | 1270.1 |
| 57.5° | 1018.9 | 1025.8 | 1032.8 | 1046.8 | 1053.7 | 1067.7 | 1081.7 | 1099.1 | 1116.5 | 1141.0 | 1158.4 |
| 60°   | 917.7  | 928.1  | 935.1  | 945.6  | 945.6  | 963.0  | 980.5  | 997.9  | 1011.9 | 1036.3 | 1053.7 |
| 62.5° | 826.9  | 826.9  | 826.9  | 840.9  | 837.4  | 851.4  | 865.3  | 886.3  | 900.2  | 931.6  | 952.6  |
| 65°   | 729.2  | 732.7  | 732.7  | 743.2  | 739.7  | 753.7  | 764.1  | 785.1  | 799.0  | 816.5  | 837.4  |
| 67.5° | 635.0  | 635.0  | 638.5  | 649.0  | 645.5  | 656.0  | 673.4  | 683.9  | 694.4  | 715.3  | 732.7  |
| 70°   | 537.3  | 540.8  | 544.3  | 554.8  | 551.3  | 565.3  | 575.7  | 582.7  | 596.7  | 610.6  | 624.6  |
| 72.5° | 453.6  | 453.6  | 464.1  | 464.1  | 460.6  | 471.0  | 481.5  | 488.5  | 495.5  | 512.9  | 530.4  |
| 75°   | 373.3  | 369.9  | 376.8  | 376.8  | 373.3  | 376.8  | 383.8  | 394.3  | 401.3  | 415.2  | 429.2  |
| 77.5° | 293.1  | 289.6  | 296.6  | 296.6  | 296.6  | 293.1  | 303.6  | 307.1  | 310.5  | 317.5  | 331.5  |
| 80°   | 216.3  | 212.8  | 219.8  | 219.8  | 212.8  | 216.3  | 223.3  | 226.8  | 226.8  | 233.8  | 244.2  |
| 82.5° | 150.0  | 146.5  | 150.0  | 150.0  | 150.0  | 150.0  | 153.5  | 150.0  | 153.5  | 153.5  | 164.0  |
| 85°   | 90.7   | 87.2   | 90.7   | 87.2   | 87.2   | 83.7   | 90.7   | 87.2   | 87.2   | 90.7   | 90.7   |
| 87.5° | 31.4   | 31.4   | 34.9   | 34.9   | 31.4   | 34.9   | 31.4   | 31.4   | 31.4   | 34.9   | 31.4   |
| 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):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 |
| 2.5°  | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2543.6 | 2543.6 | 2540.1 | 2543.6 | 2540.1 |
| 5°    | 2533.2 | 2533.2 | 2536.7 | 2536.7 | 2536.7 | 2536.7 | 2536.7 | 2540.1 | 2540.1 | 2540.1 | 2536.7 |
| 7.5°  | 2522.7 | 2522.7 | 2522.7 | 2522.7 | 2526.2 | 2529.7 | 2529.7 | 2529.7 | 2533.2 | 2529.7 | 2529.7 |
| 10°   | 2505.3 | 2512.2 | 2512.2 | 2515.7 | 2515.7 | 2519.2 | 2522.7 | 2522.7 | 2522.7 | 2522.7 | 2522.7 |
| 12.5° | 2487.8 | 2491.3 | 2494.8 | 2498.3 | 2501.8 | 2501.8 | 2508.7 | 2508.7 | 2508.7 | 2508.7 | 2505.3 |
| 15°   | 2459.9 | 2466.9 | 2470.4 | 2473.9 | 2480.8 | 2480.8 | 2487.8 | 2484.3 | 2491.3 | 2487.8 | 2484.3 |
| 17.5° | 2428.5 | 2435.5 | 2442.4 | 2442.4 | 2452.9 | 2456.4 | 2463.4 | 2466.9 | 2466.9 | 2463.4 | 2456.4 |
| 20°   | 2390.1 | 2400.6 | 2404.1 | 2411.0 | 2418.0 | 2425.0 | 2428.5 | 2432.0 | 2435.5 | 2432.0 | 2428.5 |
| 22.5° | 2344.8 | 2358.7 | 2362.2 | 2369.2 | 2379.6 | 2386.6 | 2390.1 | 2393.6 | 2397.1 | 2397.1 | 2390.1 |
| 25°   | 2295.9 | 2313.3 | 2313.3 | 2323.8 | 2334.3 | 2344.8 | 2351.7 | 2351.7 | 2358.7 | 2351.7 | 2351.7 |
| 27.5° | 2236.6 | 2257.5 | 2268.0 | 2271.5 | 2285.4 | 2295.9 | 2302.9 | 2309.9 | 2309.9 | 2302.9 | 2302.9 |
| 30°   | 2177.3 | 2198.2 | 2208.7 | 2212.2 | 2229.6 | 2240.1 | 2247.1 | 2254.0 | 2254.0 | 2254.0 | 2247.1 |
| 32.5° | 2111.0 | 2135.4 | 2145.9 | 2149.4 | 2170.3 | 2180.8 | 2191.2 | 2198.2 | 2198.2 | 2194.7 | 2184.2 |
| 35°   | 2041.2 | 2058.6 | 2076.1 | 2083.1 | 2100.5 | 2111.0 | 2128.4 | 2135.4 | 2131.9 | 2131.9 | 2121.4 |
| 37.5° | 1960.9 | 1988.9 | 1999.3 | 2006.3 | 2027.2 | 2041.2 | 2058.6 | 2065.6 | 2065.6 | 2062.1 | 2055.1 |
| 40°   | 1877.2 | 1908.6 | 1919.1 | 1929.5 | 1950.5 | 1967.9 | 1978.4 | 1988.9 | 1988.9 | 1988.9 | 1981.9 |
| 42.5° | 1793.5 | 1817.9 | 1831.8 | 1842.3 | 1866.7 | 1877.2 | 1894.6 | 1908.6 | 1908.6 | 1905.1 | 1894.6 |
| 45°   | 1699.2 | 1727.2 | 1741.1 | 1751.6 | 1776.0 | 1796.9 | 1807.4 | 1821.4 | 1817.9 | 1817.9 | 1803.9 |
| 47.5° | 1605.0 | 1633.0 | 1646.9 | 1657.4 | 1681.8 | 1706.2 | 1713.2 | 1727.2 | 1727.2 | 1727.2 | 1713.2 |
| 50°   | 1507.3 | 1535.3 | 1545.7 | 1556.2 | 1584.1 | 1598.1 | 1615.5 | 1629.5 | 1629.5 | 1633.0 | 1619.0 |
| 52.5° | 1406.2 | 1427.1 | 1444.5 | 1451.5 | 1479.4 | 1496.9 | 1510.8 | 1528.3 | 1528.3 | 1521.3 | 1521.3 |
| 55°   | 1298.0 | 1322.4 | 1339.9 | 1346.8 | 1367.8 | 1395.7 | 1406.2 | 1420.1 | 1420.1 | 1420.1 | 1413.1 |
| 57.5° | 1189.8 | 1217.7 | 1231.7 | 1238.7 | 1263.1 | 1284.0 | 1298.0 | 1311.9 | 1315.4 | 1315.4 | 1301.5 |
| 60°   | 1078.2 | 1106.1 | 1120.0 | 1127.0 | 1154.9 | 1172.4 | 1186.3 | 1200.3 | 1203.8 | 1207.3 | 1193.3 |
| 62.5° | 973.5  | 997.9  | 1011.9 | 1018.9 | 1039.8 | 1053.7 | 1071.2 | 1088.6 | 1092.1 | 1092.1 | 1085.1 |
| 65°   | 858.3  | 882.8  | 893.2  | 900.2  | 917.7  | 942.1  | 963.0  | 977.0  | 980.5  | 977.0  | 977.0  |
| 67.5° | 750.2  | 771.1  | 785.1  | 788.6  | 806.0  | 830.4  | 840.9  | 854.9  | 858.3  | 858.3  | 854.9  |
| 70°   | 642.0  | 666.4  | 676.9  | 683.9  | 697.8  | 718.8  | 729.2  | 743.2  | 746.7  | 750.2  | 743.2  |
| 72.5° | 540.8  | 558.3  | 568.7  | 575.7  | 593.2  | 610.6  | 617.6  | 631.5  | 638.5  | 638.5  | 631.5  |
| 75°   | 439.6  | 457.1  | 464.1  | 471.0  | 485.0  | 502.4  | 509.4  | 523.4  | 530.4  | 526.9  | 526.9  |
| 77.5° | 341.9  | 355.9  | 362.9  | 366.4  | 376.8  | 397.8  | 401.3  | 415.2  | 415.2  | 418.7  | 418.7  |
| 80°   | 251.2  | 261.7  | 268.7  | 272.2  | 279.1  | 293.1  | 300.1  | 310.5  | 317.5  | 314.0  | 314.0  |
| 82.5° | 167.5  | 174.5  | 181.4  | 188.4  | 188.4  | 202.4  | 202.4  | 212.8  | 212.8  | 219.8  | 216.3  |
| 85°   | 94.2   | 97.7   | 101.2  | 104.7  | 104.7  | 115.1  | 115.1  | 122.1  | 129.1  | 122.1  | 122.1  |
| 87.5° | 31.4   | 34.9   | 34.9   | 38.4   | 34.9   | 41.9   | 38.4   | 45.4   | 48.8   | 48.8   | 45.4   |
| 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):**

|       | 200°   | 202.5° | 205°   | 210°   | 215°   | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 |
| 2.5°  | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 |
| 5°    | 2536.7 | 2536.7 | 2533.2 | 2536.7 | 2536.7 | 2536.7 | 2536.7 | 2533.2 | 2533.2 | 2533.2 | 2533.2 |
| 7.5°  | 2529.7 | 2526.2 | 2526.2 | 2526.2 | 2522.7 | 2522.7 | 2522.7 | 2522.7 | 2519.2 | 2519.2 | 2519.2 |
| 10°   | 2519.2 | 2515.7 | 2515.7 | 2515.7 | 2512.2 | 2512.2 | 2508.7 | 2505.3 | 2505.3 | 2501.8 | 2498.3 |
| 12.5° | 2505.3 | 2501.8 | 2498.3 | 2498.3 | 2494.8 | 2491.3 | 2487.8 | 2484.3 | 2480.8 | 2473.9 | 2473.9 |
| 15°   | 2480.8 | 2480.8 | 2477.3 | 2473.9 | 2466.9 | 2466.9 | 2459.9 | 2456.4 | 2449.4 | 2442.4 | 2442.4 |
| 17.5° | 2456.4 | 2452.9 | 2449.4 | 2442.4 | 2435.5 | 2432.0 | 2425.0 | 2418.0 | 2411.0 | 2404.1 | 2400.6 |
| 20°   | 2425.0 | 2414.5 | 2418.0 | 2407.6 | 2400.6 | 2393.6 | 2383.1 | 2376.2 | 2365.7 | 2358.7 | 2351.7 |
| 22.5° | 2383.1 | 2379.6 | 2376.2 | 2365.7 | 2355.2 | 2351.7 | 2334.3 | 2323.8 | 2313.3 | 2302.9 | 2295.9 |
| 25°   | 2337.8 | 2334.3 | 2330.8 | 2320.3 | 2306.4 | 2299.4 | 2281.9 | 2271.5 | 2254.0 | 2247.1 | 2240.1 |
| 27.5° | 2285.4 | 2285.4 | 2278.5 | 2264.5 | 2254.0 | 2236.6 | 2226.1 | 2205.2 | 2191.2 | 2180.8 | 2173.8 |
| 30°   | 2229.6 | 2229.6 | 2222.6 | 2205.2 | 2191.2 | 2173.8 | 2163.3 | 2142.4 | 2124.9 | 2114.5 | 2100.5 |
| 32.5° | 2173.8 | 2170.3 | 2163.3 | 2145.9 | 2128.4 | 2111.0 | 2090.0 | 2072.6 | 2051.7 | 2041.2 | 2027.2 |
| 35°   | 2107.5 | 2104.0 | 2097.0 | 2076.1 | 2062.1 | 2041.2 | 2016.8 | 1995.8 | 1974.9 | 1964.4 | 1943.5 |
| 37.5° | 2037.7 | 2030.7 | 2023.7 | 1999.3 | 1981.9 | 1960.9 | 1943.5 | 1915.6 | 1894.6 | 1880.7 | 1870.2 |
| 40°   | 1960.9 | 1957.4 | 1947.0 | 1926.0 | 1901.6 | 1880.7 | 1856.3 | 1835.3 | 1814.4 | 1796.9 | 1783.0 |
| 42.5° | 1884.2 | 1870.2 | 1863.2 | 1842.3 | 1824.9 | 1793.5 | 1776.0 | 1748.1 | 1727.2 | 1713.2 | 1692.3 |
| 45°   | 1796.9 | 1786.5 | 1776.0 | 1755.1 | 1730.7 | 1706.2 | 1688.8 | 1657.4 | 1636.4 | 1619.0 | 1601.5 |
| 47.5° | 1699.2 | 1695.8 | 1685.3 | 1660.9 | 1639.9 | 1615.5 | 1594.6 | 1563.2 | 1542.2 | 1528.3 | 1510.8 |
| 50°   | 1601.5 | 1598.1 | 1591.1 | 1566.7 | 1538.7 | 1517.8 | 1500.4 | 1469.0 | 1448.0 | 1427.1 | 1416.6 |
| 52.5° | 1510.8 | 1496.9 | 1489.9 | 1469.0 | 1441.0 | 1416.6 | 1402.7 | 1371.3 | 1350.3 | 1329.4 | 1315.4 |
| 55°   | 1406.2 | 1395.7 | 1388.7 | 1371.3 | 1346.8 | 1315.4 | 1301.5 | 1273.6 | 1256.1 | 1242.2 | 1221.2 |
| 57.5° | 1301.5 | 1287.5 | 1280.5 | 1259.6 | 1242.2 | 1217.7 | 1200.3 | 1172.4 | 1154.9 | 1141.0 | 1127.0 |
| 60°   | 1182.8 | 1182.8 | 1175.9 | 1154.9 | 1137.5 | 1113.1 | 1099.1 | 1071.2 | 1053.7 | 1043.3 | 1025.8 |
| 62.5° | 1085.1 | 1071.2 | 1067.7 | 1043.3 | 1032.8 | 1008.4 | 997.9  | 973.5  | 963.0  | 945.6  | 928.1  |
| 65°   | 963.0  | 963.0  | 959.5  | 945.6  | 931.6  | 900.2  | 886.3  | 865.3  | 854.9  | 840.9  | 826.9  |
| 67.5° | 854.9  | 844.4  | 844.4  | 830.4  | 813.0  | 795.5  | 785.1  | 764.1  | 757.2  | 739.7  | 729.2  |
| 70°   | 746.7  | 736.2  | 736.2  | 718.8  | 708.3  | 690.9  | 683.9  | 666.4  | 652.5  | 645.5  | 635.0  |
| 72.5° | 638.5  | 631.5  | 628.1  | 614.1  | 607.1  | 589.7  | 586.2  | 568.7  | 554.8  | 551.3  | 540.8  |
| 75°   | 530.4  | 523.4  | 512.9  | 516.4  | 502.4  | 488.5  | 485.0  | 474.5  | 467.6  | 457.1  | 446.6  |
| 77.5° | 422.2  | 415.2  | 415.2  | 408.2  | 401.3  | 390.8  | 387.3  | 380.3  | 369.9  | 362.9  | 355.9  |
| 80°   | 321.0  | 314.0  | 314.0  | 310.5  | 300.1  | 293.1  | 293.1  | 282.6  | 282.6  | 275.6  | 272.2  |
| 82.5° | 219.8  | 216.3  | 212.8  | 216.3  | 209.4  | 202.4  | 205.9  | 202.4  | 198.9  | 191.9  | 188.4  |
| 85°   | 129.1  | 125.6  | 122.1  | 129.1  | 122.1  | 125.6  | 122.1  | 118.6  | 118.6  | 115.1  | 111.7  |
| 87.5° | 48.8   | 48.8   | 45.4   | 48.8   | 48.8   | 52.3   | 48.8   | 48.8   | 48.8   | 48.8   | 48.8   |
| 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):**

|       | 247.5° | 250°   | 255°   | 260°   | 265°   | 270°   | 275°   | 280°   | 285°   | 290°   | 292.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 |
| 2.5°  | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 |
| 5°    | 2533.2 | 2533.2 | 2533.2 | 2533.2 | 2533.2 | 2533.2 | 2533.2 | 2533.2 | 2533.2 | 2529.7 | 2533.2 |
| 7.5°  | 2519.2 | 2515.7 | 2519.2 | 2515.7 | 2515.7 | 2515.7 | 2515.7 | 2515.7 | 2515.7 | 2515.7 | 2515.7 |
| 10°   | 2498.3 | 2498.3 | 2498.3 | 2498.3 | 2498.3 | 2498.3 | 2498.3 | 2498.3 | 2498.3 | 2494.8 | 2494.8 |
| 12.5° | 2473.9 | 2473.9 | 2470.4 | 2470.4 | 2470.4 | 2466.9 | 2466.9 | 2470.4 | 2470.4 | 2466.9 | 2470.4 |
| 15°   | 2439.0 | 2442.4 | 2435.5 | 2432.0 | 2432.0 | 2432.0 | 2432.0 | 2432.0 | 2432.0 | 2432.0 | 2435.5 |
| 17.5° | 2400.6 | 2397.1 | 2393.6 | 2393.6 | 2390.1 | 2386.6 | 2386.6 | 2390.1 | 2390.1 | 2393.6 | 2393.6 |
| 20°   | 2351.7 | 2351.7 | 2344.8 | 2341.3 | 2337.8 | 2334.3 | 2334.3 | 2337.8 | 2337.8 | 2337.8 | 2344.8 |
| 22.5° | 2295.9 | 2292.4 | 2285.4 | 2281.9 | 2281.9 | 2275.0 | 2278.5 | 2281.9 | 2281.9 | 2281.9 | 2285.4 |
| 25°   | 2233.1 | 2229.6 | 2226.1 | 2222.6 | 2215.7 | 2212.2 | 2212.2 | 2219.1 | 2219.1 | 2226.1 | 2229.6 |
| 27.5° | 2166.8 | 2163.3 | 2156.3 | 2149.4 | 2145.9 | 2142.4 | 2142.4 | 2149.4 | 2149.4 | 2156.3 | 2159.8 |
| 30°   | 2097.0 | 2093.5 | 2083.1 | 2079.6 | 2069.1 | 2065.6 | 2069.1 | 2076.1 | 2079.6 | 2083.1 | 2086.5 |
| 32.5° | 2023.7 | 2016.8 | 2006.3 | 2002.8 | 1992.3 | 1995.8 | 1988.9 | 1999.3 | 2002.8 | 2006.3 | 2009.8 |
| 35°   | 1943.5 | 1936.5 | 1926.0 | 1915.6 | 1912.1 | 1908.6 | 1908.6 | 1915.6 | 1915.6 | 1926.0 | 1929.5 |
| 37.5° | 1856.3 | 1852.8 | 1842.3 | 1835.3 | 1828.3 | 1828.3 | 1821.4 | 1831.8 | 1835.3 | 1842.3 | 1842.3 |
| 40°   | 1776.0 | 1772.5 | 1755.1 | 1748.1 | 1741.1 | 1744.6 | 1734.1 | 1744.6 | 1748.1 | 1755.1 | 1758.6 |
| 42.5° | 1681.8 | 1678.3 | 1664.4 | 1657.4 | 1650.4 | 1653.9 | 1643.4 | 1653.9 | 1650.4 | 1660.9 | 1664.4 |
| 45°   | 1591.1 | 1587.6 | 1577.1 | 1563.2 | 1556.2 | 1559.7 | 1559.7 | 1559.7 | 1556.2 | 1566.7 | 1570.1 |
| 47.5° | 1500.4 | 1493.4 | 1482.9 | 1469.0 | 1462.0 | 1465.5 | 1465.5 | 1465.5 | 1462.0 | 1475.9 | 1475.9 |
| 50°   | 1406.2 | 1399.2 | 1388.7 | 1374.8 | 1371.3 | 1371.3 | 1371.3 | 1371.3 | 1371.3 | 1378.2 | 1381.7 |
| 52.5° | 1308.5 | 1305.0 | 1294.5 | 1280.5 | 1273.6 | 1273.6 | 1273.6 | 1266.6 | 1273.6 | 1277.1 | 1280.5 |
| 55°   | 1210.8 | 1207.3 | 1189.8 | 1182.8 | 1175.9 | 1179.4 | 1175.9 | 1172.4 | 1172.4 | 1179.4 | 1182.8 |
| 57.5° | 1113.1 | 1109.6 | 1099.1 | 1095.6 | 1078.2 | 1081.7 | 1078.2 | 1078.2 | 1081.7 | 1081.7 | 1085.1 |
| 60°   | 1015.4 | 1011.9 | 1001.4 | 997.9  | 984.0  | 987.4  | 973.5  | 980.5  | 984.0  | 984.0  | 984.0  |
| 62.5° | 910.7  | 910.7  | 893.2  | 886.3  | 879.3  | 882.8  | 872.3  | 872.3  | 872.3  | 879.3  | 879.3  |
| 65°   | 816.5  | 813.0  | 799.0  | 792.1  | 785.1  | 785.1  | 778.1  | 778.1  | 774.6  | 781.6  | 781.6  |
| 67.5° | 718.8  | 718.8  | 704.8  | 697.8  | 690.9  | 694.4  | 683.9  | 683.9  | 687.4  | 687.4  | 687.4  |
| 70°   | 624.6  | 624.6  | 614.1  | 610.6  | 600.1  | 600.1  | 589.7  | 593.2  | 593.2  | 593.2  | 593.2  |
| 72.5° | 533.8  | 533.8  | 523.4  | 519.9  | 509.4  | 509.4  | 499.0  | 502.4  | 502.4  | 499.0  | 499.0  |
| 75°   | 443.1  | 446.6  | 429.2  | 425.7  | 418.7  | 422.2  | 415.2  | 411.7  | 415.2  | 408.2  | 408.2  |
| 77.5° | 352.4  | 352.4  | 348.9  | 345.4  | 335.0  | 335.0  | 331.5  | 324.5  | 328.0  | 321.0  | 321.0  |
| 80°   | 265.2  | 268.7  | 258.2  | 261.7  | 251.2  | 254.7  | 251.2  | 244.2  | 244.2  | 240.8  | 237.3  |
| 82.5° | 184.9  | 184.9  | 181.4  | 184.9  | 181.4  | 177.9  | 174.5  | 171.0  | 171.0  | 164.0  | 164.0  |
| 85°   | 111.7  | 115.1  | 108.2  | 111.7  | 111.7  | 108.2  | 101.2  | 101.2  | 101.2  | 97.7   | 97.7   |
| 87.5° | 45.4   | 52.3   | 48.8   | 48.8   | 48.8   | 48.8   | 45.4   | 48.8   | 45.4   | 41.9   | 41.9   |
| 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):**

|       | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   | 330°   | 335°   | 337.5° | 340°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2540.1 |
| 2.5°  | 2536.7 | 2540.1 | 2540.1 | 2540.1 | 2540.1 | 2536.7 | 2536.7 | 2536.7 | 2536.7 | 2536.7 | 2540.1 |
| 5°    | 2529.7 | 2533.2 | 2533.2 | 2533.2 | 2533.2 | 2533.2 | 2533.2 | 2533.2 | 2533.2 | 2533.2 | 2533.2 |
| 7.5°  | 2515.7 | 2515.7 | 2519.2 | 2519.2 | 2519.2 | 2519.2 | 2522.7 | 2519.2 | 2522.7 | 2519.2 | 2522.7 |
| 10°   | 2494.8 | 2498.3 | 2501.8 | 2501.8 | 2505.3 | 2501.8 | 2505.3 | 2505.3 | 2508.7 | 2508.7 | 2508.7 |
| 12.5° | 2470.4 | 2473.9 | 2473.9 | 2480.8 | 2480.8 | 2480.8 | 2484.3 | 2484.3 | 2487.8 | 2491.3 | 2491.3 |
| 15°   | 2435.5 | 2439.0 | 2442.4 | 2442.4 | 2449.4 | 2456.4 | 2456.4 | 2459.9 | 2463.4 | 2466.9 | 2466.9 |
| 17.5° | 2393.6 | 2397.1 | 2400.6 | 2407.6 | 2414.5 | 2421.5 | 2425.0 | 2425.0 | 2432.0 | 2435.5 | 2435.5 |
| 20°   | 2344.8 | 2351.7 | 2358.7 | 2365.7 | 2369.2 | 2379.6 | 2383.1 | 2386.6 | 2393.6 | 2400.6 | 2400.6 |
| 22.5° | 2292.4 | 2295.9 | 2306.4 | 2313.3 | 2320.3 | 2330.8 | 2334.3 | 2344.8 | 2351.7 | 2355.2 | 2358.7 |
| 25°   | 2229.6 | 2236.6 | 2247.1 | 2254.0 | 2261.0 | 2275.0 | 2285.4 | 2292.4 | 2302.9 | 2309.9 | 2309.9 |
| 27.5° | 2159.8 | 2170.3 | 2180.8 | 2187.7 | 2198.2 | 2215.7 | 2226.1 | 2233.1 | 2247.1 | 2254.0 | 2257.5 |
| 30°   | 2090.0 | 2097.0 | 2111.0 | 2121.4 | 2131.9 | 2149.4 | 2163.3 | 2173.8 | 2187.7 | 2194.7 | 2198.2 |
| 32.5° | 2013.3 | 2023.7 | 2037.7 | 2048.2 | 2062.1 | 2079.6 | 2093.5 | 2104.0 | 2124.9 | 2128.4 | 2131.9 |
| 35°   | 1933.0 | 1943.5 | 1954.0 | 1971.4 | 1985.4 | 2002.8 | 2020.3 | 2034.2 | 2044.7 | 2058.6 | 2062.1 |
| 37.5° | 1849.3 | 1859.8 | 1873.7 | 1887.7 | 1901.6 | 1922.6 | 1940.0 | 1950.5 | 1967.9 | 1978.4 | 1985.4 |
| 40°   | 1762.1 | 1772.5 | 1790.0 | 1807.4 | 1817.9 | 1838.8 | 1856.3 | 1870.2 | 1894.6 | 1901.6 | 1901.6 |
| 42.5° | 1667.8 | 1681.8 | 1692.3 | 1713.2 | 1723.7 | 1748.1 | 1765.5 | 1786.5 | 1800.4 | 1810.9 | 1814.4 |
| 45°   | 1577.1 | 1587.6 | 1608.5 | 1622.5 | 1633.0 | 1657.4 | 1674.8 | 1692.3 | 1709.7 | 1716.7 | 1723.7 |
| 47.5° | 1479.4 | 1493.4 | 1510.8 | 1517.8 | 1535.3 | 1559.7 | 1577.1 | 1594.6 | 1615.5 | 1622.5 | 1626.0 |
| 50°   | 1385.2 | 1395.7 | 1406.2 | 1420.1 | 1434.1 | 1458.5 | 1479.4 | 1496.9 | 1514.3 | 1521.3 | 1524.8 |
| 52.5° | 1287.5 | 1298.0 | 1308.5 | 1325.9 | 1332.9 | 1357.3 | 1367.8 | 1385.2 | 1409.6 | 1416.6 | 1420.1 |
| 55°   | 1186.3 | 1200.3 | 1214.2 | 1224.7 | 1231.7 | 1252.6 | 1266.6 | 1287.5 | 1301.5 | 1308.5 | 1315.4 |
| 57.5° | 1085.1 | 1095.6 | 1109.6 | 1123.5 | 1127.0 | 1148.0 | 1165.4 | 1175.9 | 1193.3 | 1200.3 | 1207.3 |
| 60°   | 987.4  | 997.9  | 1008.4 | 1011.9 | 1022.3 | 1043.3 | 1060.7 | 1067.7 | 1085.1 | 1092.1 | 1095.6 |
| 62.5° | 882.8  | 886.3  | 900.2  | 910.7  | 910.7  | 938.6  | 949.1  | 963.0  | 977.0  | 980.5  | 987.4  |
| 65°   | 785.1  | 792.1  | 792.1  | 799.0  | 809.5  | 826.9  | 833.9  | 851.4  | 861.8  | 865.3  | 868.8  |
| 67.5° | 687.4  | 694.4  | 701.3  | 708.3  | 708.3  | 725.8  | 729.2  | 743.2  | 753.7  | 757.2  | 760.6  |
| 70°   | 593.2  | 593.2  | 603.6  | 610.6  | 607.1  | 621.1  | 628.1  | 635.0  | 649.0  | 652.5  | 656.0  |
| 72.5° | 502.4  | 499.0  | 505.9  | 512.9  | 519.9  | 523.4  | 530.4  | 533.8  | 544.3  | 551.3  | 554.8  |
| 75°   | 411.7  | 415.2  | 415.2  | 418.7  | 415.2  | 418.7  | 429.2  | 439.6  | 446.6  | 450.1  | 457.1  |
| 77.5° | 321.0  | 324.5  | 324.5  | 328.0  | 331.5  | 331.5  | 335.0  | 348.9  | 355.9  | 359.4  | 355.9  |
| 80°   | 237.3  | 240.8  | 240.8  | 244.2  | 247.7  | 251.2  | 251.2  | 258.2  | 268.7  | 272.2  | 272.2  |
| 82.5° | 167.5  | 167.5  | 167.5  | 167.5  | 171.0  | 171.0  | 174.5  | 181.4  | 188.4  | 188.4  | 195.4  |
| 85°   | 101.2  | 101.2  | 97.7   | 101.2  | 97.7   | 101.2  | 104.7  | 111.7  | 115.1  | 115.1  | 118.6  |
| 87.5° | 45.4   | 41.9   | 45.4   | 45.4   | 41.9   | 41.9   | 41.9   | 45.4   | 45.4   | 48.8   | 48.8   |
| 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):**

|       | 345°   | 350°   | 355°   | 360°   |
|-------|--------|--------|--------|--------|
| 0°    | 2540.1 | 2540.1 | 2540.1 | 2540.1 |
| 2.5°  | 2540.1 | 2540.1 | 2540.1 | 2540.1 |
| 5°    | 2533.2 | 2533.2 | 2533.2 | 2533.2 |
| 7.5°  | 2522.7 | 2522.7 | 2522.7 | 2522.7 |
| 10°   | 2508.7 | 2512.2 | 2512.2 | 2512.2 |
| 12.5° | 2491.3 | 2491.3 | 2494.8 | 2494.8 |
| 15°   | 2470.4 | 2470.4 | 2470.4 | 2473.9 |
| 17.5° | 2439.0 | 2442.4 | 2442.4 | 2442.4 |
| 20°   | 2404.1 | 2407.6 | 2407.6 | 2404.1 |
| 22.5° | 2358.7 | 2362.2 | 2365.7 | 2365.7 |
| 25°   | 2313.3 | 2320.3 | 2323.8 | 2323.8 |
| 27.5° | 2261.0 | 2268.0 | 2271.5 | 2271.5 |
| 30°   | 2205.2 | 2212.2 | 2212.2 | 2212.2 |
| 32.5° | 2138.9 | 2149.4 | 2152.8 | 2152.8 |
| 35°   | 2069.1 | 2083.1 | 2086.5 | 2086.5 |
| 37.5° | 1995.8 | 2002.8 | 2013.3 | 2013.3 |
| 40°   | 1915.6 | 1922.6 | 1933.0 | 1933.0 |
| 42.5° | 1828.3 | 1842.3 | 1842.3 | 1849.3 |
| 45°   | 1734.1 | 1748.1 | 1751.6 | 1758.6 |
| 47.5° | 1639.9 | 1653.9 | 1657.4 | 1660.9 |
| 50°   | 1538.7 | 1549.2 | 1559.7 | 1559.7 |
| 52.5° | 1437.6 | 1444.5 | 1451.5 | 1458.5 |
| 55°   | 1329.4 | 1339.9 | 1343.3 | 1350.3 |
| 57.5° | 1217.7 | 1231.7 | 1235.2 | 1242.2 |
| 60°   | 1109.6 | 1120.0 | 1127.0 | 1130.5 |
| 62.5° | 1001.4 | 1008.4 | 1011.9 | 1018.9 |
| 65°   | 882.8  | 893.2  | 893.2  | 900.2  |
| 67.5° | 774.6  | 781.6  | 785.1  | 788.6  |
| 70°   | 659.5  | 673.4  | 676.9  | 683.9  |
| 72.5° | 558.3  | 572.2  | 572.2  | 579.2  |
| 75°   | 467.6  | 471.0  | 471.0  | 478.0  |
| 77.5° | 369.9  | 373.3  | 376.8  | 380.3  |
| 80°   | 279.1  | 282.6  | 282.6  | 289.6  |
| 82.5° | 198.9  | 198.9  | 198.9  | 202.4  |
| 85°   | 122.1  | 118.6  | 115.1  | 118.6  |
| 87.5° | 48.8   | 48.8   | 52.3   | 45.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

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**CIE UGR TABLE:**

| Reflectances:   |      |                  |       |       |       |       |                |       |       |       |       |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling         |      | 0.7              | 0.7   | 0.5   | 0.5   | 0.3   | 0.7            | 0.7   | 0.5   | 0.5   | 0.3   |
| Wall            |      | 0.5              | 0.3   | 0.5   | 0.3   | 0.3   | 0.5            | 0.3   | 0.5   | 0.3   | 0.3   |
| Reference plane |      | 0.2              | 0.2   | 0.2   | 0.2   | 0.2   | 0.2            | 0.2   | 0.2   | 0.2   | 0.2   |
| Room dimensions |      | Viewed crosswise |       |       |       |       | Viewed endwise |       |       |       |       |
| X=2H            | Y=2H | 18.59            | 20.22 | 18.96 | 20.53 | 20.85 | 17.47          | 19.10 | 17.84 | 19.42 | 19.73 |
|                 | 3H   | 20.34            | 21.81 | 20.72 | 22.14 | 22.50 | 19.09          | 20.56 | 19.47 | 20.89 | 21.25 |
|                 | 4H   | 21.00            | 22.39 | 21.40 | 22.73 | 23.11 | 19.69          | 21.07 | 20.08 | 21.42 | 21.79 |
|                 | 6H   | 21.49            | 22.78 | 21.90 | 23.14 | 23.53 | 20.12          | 21.40 | 20.53 | 21.77 | 22.16 |
|                 | 8H   | 21.65            | 22.88 | 22.08 | 23.27 | 23.66 | 20.25          | 21.48 | 20.68 | 21.87 | 22.26 |
|                 | 12H  | 21.75            | 22.92 | 22.18 | 23.31 | 23.73 | 20.33          | 21.51 | 20.76 | 21.89 | 22.32 |
| 4H              | 2H   | 19.08            | 20.46 | 19.47 | 20.81 | 21.18 | 18.17          | 19.56 | 18.57 | 19.91 | 20.28 |
|                 | 3H   | 21.05            | 22.21 | 21.46 | 22.61 | 23.01 | 20.00          | 21.16 | 20.41 | 21.56 | 21.96 |
|                 | 4H   | 21.85            | 22.90 | 22.28 | 23.31 | 23.75 | 20.71          | 21.75 | 21.14 | 22.17 | 22.60 |
|                 | 6H   | 22.48            | 23.40 | 22.93 | 23.84 | 24.29 | 21.25          | 22.17 | 21.70 | 22.61 | 23.06 |
|                 | 8H   | 22.69            | 23.55 | 23.15 | 23.99 | 24.46 | 21.42          | 22.28 | 21.88 | 22.72 | 23.19 |
|                 | 12H  | 22.84            | 23.61 | 23.32 | 24.08 | 24.55 | 21.54          | 22.31 | 22.02 | 22.78 | 23.25 |
| 8H              | 4H   | 22.08            | 22.94 | 22.54 | 23.38 | 23.85 | 21.05          | 21.91 | 21.51 | 22.35 | 22.82 |
|                 | 6H   | 22.83            | 23.54 | 23.32 | 24.03 | 24.50 | 21.71          | 22.42 | 22.20 | 22.91 | 23.38 |
|                 | 8H   | 23.11            | 23.75 | 23.62 | 24.26 | 24.74 | 21.94          | 22.58 | 22.45 | 23.09 | 23.57 |
|                 | 12H  | 23.33            | 23.90 | 23.84 | 24.39 | 24.95 | 22.12          | 22.68 | 22.62 | 23.17 | 23.74 |
| 12H             | 4H   | 22.10            | 22.87 | 22.58 | 23.35 | 23.82 | 21.10          | 21.87 | 21.58 | 22.34 | 22.81 |
|                 | 6H   | 22.86            | 23.50 | 23.37 | 24.01 | 24.49 | 21.77          | 22.41 | 22.28 | 22.92 | 23.40 |
|                 | 8H   | 23.20            | 23.76 | 23.70 | 24.25 | 24.81 | 22.06          | 22.63 | 22.57 | 23.12 | 23.68 |

END OF REPORT