

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: HALO COMMERCIAL

Report Number: P238337

Luminaire Tested: **PRS640D010-S6M24-61SWWC-4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238337  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-25)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS640D010-S6M24-61SWWC-4000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WALL WASH DISTRIBUTION, WW TRIM SPECULAR  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2786.2 lumens  
Efficiency: N/A  
Efficacy: 73.3 lumens/watt  
Spacing Criteria (0/90/45): 0.98 / 0.94 / 1.03  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

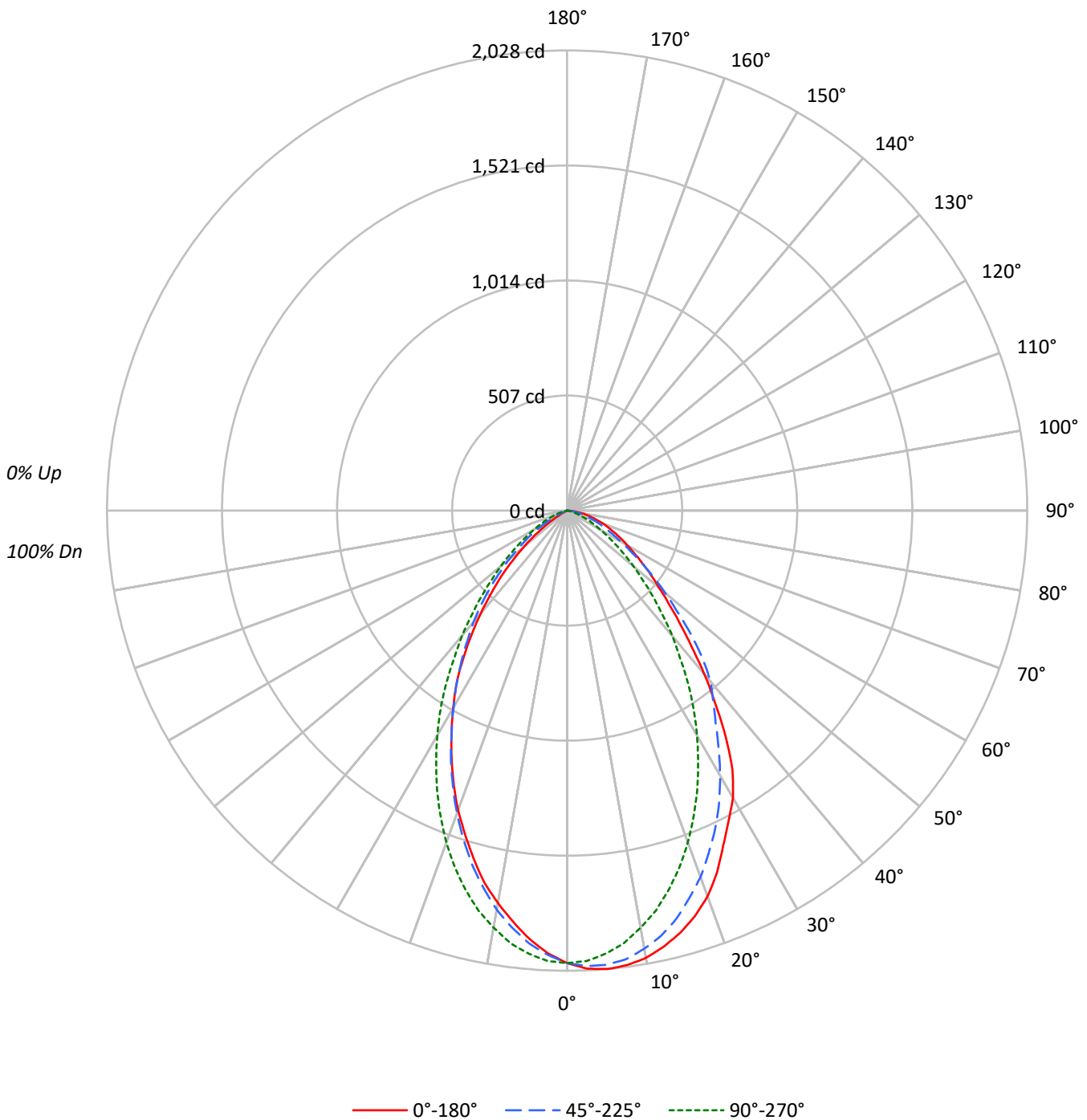
Input Watts (W): 38  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |     |     |    |    | 10 |    |     |   |  | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 | 50 | 30 | 10  | 0 |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |     |   |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |    | 100 |   |  |   |
| 1   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 98  | 98  | 96  | 95  | 95  | 93  | 92  | 90  |    |    |    |    | 90  |   |  |   |
| 2   | 104 | 98  | 93  | 89  | 102 | 96  | 92  | 88  | 93  | 89  | 86  | 90  | 87  | 84  | 87  | 84  | 82  | 80  |    |    |    |    | 80  |   |  |   |
| 3   | 97  | 89  | 83  | 78  | 95  | 88  | 82  | 77  | 85  | 80  | 76  | 82  | 78  | 74  | 80  | 76  | 73  | 71  |    |    |    |    | 71  |   |  |   |
| 4   | 91  | 81  | 74  | 69  | 89  | 80  | 73  | 68  | 78  | 72  | 67  | 75  | 71  | 67  | 73  | 69  | 66  | 64  |    |    |    |    | 64  |   |  |   |
| 5   | 85  | 74  | 67  | 62  | 83  | 73  | 66  | 61  | 71  | 65  | 61  | 69  | 64  | 60  | 68  | 63  | 60  | 58  |    |    |    |    | 58  |   |  |   |
| 6   | 79  | 68  | 61  | 56  | 78  | 67  | 60  | 55  | 66  | 60  | 55  | 64  | 59  | 54  | 63  | 58  | 54  | 52  |    |    |    |    | 52  |   |  |   |
| 7   | 74  | 63  | 56  | 50  | 73  | 62  | 55  | 50  | 61  | 55  | 50  | 60  | 54  | 50  | 58  | 53  | 49  | 48  |    |    |    |    | 48  |   |  |   |
| 8   | 70  | 58  | 51  | 46  | 69  | 58  | 51  | 46  | 57  | 50  | 46  | 55  | 50  | 46  | 54  | 49  | 45  | 44  |    |    |    |    | 44  |   |  |   |
| 9   | 66  | 54  | 47  | 42  | 65  | 54  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    |    |    | 40  |   |  |   |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 48  | 42  | 39  | 37  |    |    |    |    | 37  |   |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 85857 | 85857 | 85857 |
| 5°  | 87655 | 84716 | 81941 |
| 10° | 87514 | 81568 | 76781 |
| 15° | 85855 | 77105 | 70873 |
| 20° | 82891 | 71294 | 64376 |
| 25° | 77331 | 64414 | 57236 |
| 30° | 72665 | 56895 | 49945 |
| 35° | 64119 | 48835 | 42086 |
| 40° | 52855 | 40546 | 33324 |
| 45° | 42775 | 32424 | 25068 |
| 50° | 35414 | 25554 | 16699 |
| 55° | 30334 | 19562 | 9075  |
| 60° | 26341 | 14639 | 2601  |
| 65° | 23473 | 10769 | 0     |
| 70° | 21401 | 7138  | 0     |
| 75° | 18216 | 4392  | 0     |
| 80° | 15918 | 2802  | 0     |
| 85° | 11214 | 1877  | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 184.4  | 6.6       |
| 10°-20°   | 487.3  | 17.5      |
| 20°-30°   | 633.0  | 22.7      |
| 30°-40°   | 608.4  | 21.8      |
| 40°-50°   | 447.8  | 16.1      |
| 50°-60°   | 257.0  | 9.2       |
| 60°-70°   | 116.5  | 4.2       |
| 70°-80°   | 43.5   | 1.6       |
| 80°-90°   | 8.3    | 0.3       |
| 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°    | 1304.7 | 46.8      |
| 0°-40°    | 1913.1 | 68.7      |
| 0°-60°    | 2618.0 | 94.0      |
| 0°-90°    | 2786.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2786.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1994 | 1994 | 1994 | 1994 | 1994 |      |
| 5°  | 2028 | 2009 | 1960 | 1915 | 1896 | 193  |
| 15° | 1926 | 1862 | 1730 | 1616 | 1590 | 541  |
| 25° | 1628 | 1545 | 1356 | 1212 | 1205 | 751  |
| 35° | 1220 | 1141 | 929  | 812  | 801  | 755  |
| 45° | 702  | 770  | 532  | 476  | 412  | 548  |
| 55° | 404  | 397  | 261  | 212  | 121  | 365  |
| 65° | 230  | 185  | 106  | 45   | 0    | 231  |
| 75° | 110  | 76   | 26   | 0    | 0    | 118  |
| 85° | 23   | 11   | 4    | 0    | 0    | 27   |
| 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°    | 1994.1 | 1994.1 | 1994.1 | 1994.1 | 1994.1 | 1994.1 | 1994.1 | 1994.1 | 1994.1 | 1994.1 | 1994.1 |
| 2.5°  | 2020.6 | 2020.6 | 2020.6 | 2016.8 | 2016.8 | 2020.6 | 2016.8 | 2016.8 | 2013.0 | 2013.0 | 2009.2 |
| 5°    | 2028.1 | 2028.1 | 2028.1 | 2028.1 | 2024.3 | 2024.3 | 2024.3 | 2020.6 | 2016.8 | 2013.0 | 2009.2 |
| 7.5°  | 2020.6 | 2020.6 | 2020.6 | 2020.6 | 2016.8 | 2016.8 | 2013.0 | 2009.2 | 2005.5 | 1997.9 | 1994.1 |
| 10°   | 2001.7 | 2001.7 | 2001.7 | 1997.9 | 1994.1 | 1990.3 | 1990.3 | 1982.8 | 1975.2 | 1967.7 | 1960.1 |
| 12.5° | 1967.7 | 1967.7 | 1963.9 | 1963.9 | 1956.4 | 1956.4 | 1952.6 | 1945.0 | 1937.5 | 1929.9 | 1918.6 |
| 15°   | 1926.1 | 1922.4 | 1922.4 | 1918.6 | 1911.0 | 1907.3 | 1903.5 | 1892.2 | 1880.8 | 1869.5 | 1861.9 |
| 17.5° | 1873.3 | 1869.5 | 1865.7 | 1861.9 | 1850.6 | 1843.1 | 1839.3 | 1827.9 | 1816.6 | 1805.3 | 1790.2 |
| 20°   | 1809.1 | 1805.3 | 1801.5 | 1794.0 | 1786.4 | 1778.8 | 1771.3 | 1760.0 | 1744.9 | 1729.8 | 1718.4 |
| 22.5° | 1726.0 | 1722.2 | 1718.4 | 1714.6 | 1703.3 | 1695.8 | 1692.0 | 1680.7 | 1665.5 | 1650.4 | 1631.6 |
| 25°   | 1627.8 | 1627.8 | 1631.6 | 1620.2 | 1612.7 | 1605.1 | 1605.1 | 1593.8 | 1578.7 | 1559.8 | 1544.7 |
| 27.5° | 1540.9 | 1540.9 | 1533.4 | 1525.8 | 1514.5 | 1506.9 | 1503.1 | 1491.8 | 1484.3 | 1469.2 | 1450.3 |
| 30°   | 1461.6 | 1457.8 | 1450.3 | 1442.7 | 1431.4 | 1420.1 | 1408.7 | 1393.6 | 1378.5 | 1363.4 | 1348.3 |
| 32.5° | 1355.9 | 1352.1 | 1352.1 | 1352.1 | 1340.7 | 1337.0 | 1329.4 | 1310.5 | 1291.6 | 1265.2 | 1242.6 |
| 35°   | 1219.9 | 1216.1 | 1212.3 | 1216.1 | 1223.7 | 1227.4 | 1231.2 | 1223.7 | 1204.8 | 1174.6 | 1140.6 |
| 37.5° | 1072.6 | 1076.4 | 1080.2 | 1083.9 | 1095.3 | 1102.8 | 1099.0 | 1114.1 | 1110.4 | 1091.5 | 1057.5 |
| 40°   | 940.4  | 940.4  | 944.2  | 955.5  | 966.8  | 970.6  | 974.4  | 989.5  | 989.5  | 993.3  | 982.0  |
| 42.5° | 808.2  | 819.6  | 823.3  | 830.9  | 842.2  | 849.8  | 857.3  | 872.4  | 876.2  | 891.3  | 883.8  |
| 45°   | 702.5  | 710.0  | 717.6  | 725.1  | 736.5  | 744.0  | 747.8  | 759.1  | 770.5  | 778.0  | 770.5  |
| 47.5° | 608.1  | 611.8  | 615.6  | 623.2  | 634.5  | 638.3  | 645.8  | 657.2  | 668.5  | 664.7  | 657.2  |
| 50°   | 528.7  | 532.5  | 532.5  | 543.9  | 551.4  | 555.2  | 555.2  | 570.3  | 570.3  | 570.3  | 562.7  |
| 52.5° | 464.5  | 464.5  | 468.3  | 472.1  | 479.6  | 479.6  | 487.2  | 494.8  | 487.2  | 483.4  | 475.9  |
| 55°   | 404.1  | 404.1  | 407.9  | 411.7  | 411.7  | 415.4  | 419.2  | 419.2  | 411.7  | 404.1  | 396.6  |
| 57.5° | 351.2  | 355.0  | 355.0  | 358.8  | 362.6  | 358.8  | 362.6  | 355.0  | 347.5  | 339.9  | 328.6  |
| 60°   | 305.9  | 309.7  | 309.7  | 313.5  | 313.5  | 313.5  | 309.7  | 302.1  | 290.8  | 283.3  | 271.9  |
| 62.5° | 268.1  | 268.1  | 268.1  | 268.1  | 268.1  | 268.1  | 264.4  | 256.8  | 245.5  | 237.9  | 226.6  |
| 65°   | 230.4  | 230.4  | 230.4  | 230.4  | 226.6  | 226.6  | 222.8  | 215.3  | 203.9  | 196.4  | 185.1  |
| 67.5° | 196.4  | 196.4  | 196.4  | 196.4  | 192.6  | 188.8  | 185.1  | 181.3  | 170.0  | 162.4  | 154.8  |
| 70°   | 170.0  | 166.2  | 166.2  | 162.4  | 158.6  | 154.8  | 154.8  | 147.3  | 139.7  | 132.2  | 124.6  |
| 72.5° | 136.0  | 136.0  | 136.0  | 136.0  | 128.4  | 128.4  | 124.6  | 117.1  | 109.5  | 105.7  | 98.2   |
| 75°   | 109.5  | 109.5  | 109.5  | 105.7  | 102.0  | 102.0  | 98.2   | 94.4   | 86.9   | 83.1   | 75.5   |
| 77.5° | 86.9   | 86.9   | 86.9   | 83.1   | 79.3   | 75.5   | 75.5   | 71.8   | 64.2   | 60.4   | 56.7   |
| 80°   | 64.2   | 64.2   | 60.4   | 56.7   | 56.7   | 52.9   | 52.9   | 49.1   | 45.3   | 41.5   | 37.8   |
| 82.5° | 41.5   | 41.5   | 41.5   | 37.8   | 37.8   | 34.0   | 34.0   | 34.0   | 30.2   | 26.4   | 22.7   |
| 85°   | 22.7   | 22.7   | 22.7   | 18.9   | 18.9   | 18.9   | 18.9   | 18.9   | 15.1   | 15.1   | 11.3   |
| 87.5° | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 7.6    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    |
| 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):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1994.1 | 1994.1 | 1994.1 | 1994.1 | 1994.1 | 1994.1 | 1994.1 | 1994.1 | 1994.1 | 1994.1 | 1994.1 |
| 2.5°  | 2009.2 | 2005.5 | 2001.7 | 2001.7 | 1997.9 | 1997.9 | 1994.1 | 1990.3 | 1986.6 | 1986.6 | 1982.8 |
| 5°    | 2005.5 | 2001.7 | 1994.1 | 1990.3 | 1986.6 | 1982.8 | 1979.0 | 1971.5 | 1967.7 | 1960.1 | 1956.4 |
| 7.5°  | 1986.6 | 1979.0 | 1971.5 | 1963.9 | 1960.1 | 1956.4 | 1945.0 | 1937.5 | 1929.9 | 1922.4 | 1914.8 |
| 10°   | 1952.6 | 1945.0 | 1933.7 | 1926.1 | 1918.6 | 1911.0 | 1903.5 | 1888.4 | 1877.0 | 1865.7 | 1854.4 |
| 12.5° | 1907.3 | 1895.9 | 1884.6 | 1869.5 | 1865.7 | 1858.2 | 1846.8 | 1831.7 | 1820.4 | 1805.3 | 1790.2 |
| 15°   | 1850.6 | 1831.7 | 1824.2 | 1805.3 | 1797.7 | 1790.2 | 1778.8 | 1763.7 | 1748.6 | 1729.8 | 1714.6 |
| 17.5° | 1775.1 | 1756.2 | 1748.6 | 1729.8 | 1722.2 | 1714.6 | 1695.8 | 1680.7 | 1665.5 | 1646.7 | 1627.8 |
| 20°   | 1699.5 | 1684.4 | 1665.5 | 1646.7 | 1639.1 | 1631.6 | 1608.9 | 1593.8 | 1578.7 | 1556.0 | 1540.9 |
| 22.5° | 1612.7 | 1593.8 | 1574.9 | 1559.8 | 1548.5 | 1540.9 | 1522.0 | 1503.1 | 1480.5 | 1457.8 | 1438.9 |
| 25°   | 1525.8 | 1503.1 | 1484.3 | 1465.4 | 1450.3 | 1442.7 | 1420.1 | 1397.4 | 1374.7 | 1355.9 | 1333.2 |
| 27.5° | 1427.6 | 1408.7 | 1386.1 | 1359.6 | 1348.3 | 1337.0 | 1314.3 | 1287.9 | 1269.0 | 1250.1 | 1227.4 |
| 30°   | 1325.6 | 1306.8 | 1280.3 | 1257.7 | 1246.3 | 1235.0 | 1212.3 | 1189.7 | 1170.8 | 1144.4 | 1121.7 |
| 32.5° | 1223.7 | 1204.8 | 1182.1 | 1159.5 | 1151.9 | 1136.8 | 1110.4 | 1091.5 | 1065.0 | 1038.6 | 1019.7 |
| 35°   | 1125.5 | 1110.4 | 1087.7 | 1061.3 | 1042.4 | 1027.3 | 1000.8 | 970.6  | 948.0  | 929.1  | 910.2  |
| 37.5° | 1034.8 | 1012.2 | 982.0  | 948.0  | 929.1  | 914.0  | 880.0  | 857.3  | 838.4  | 815.8  | 808.2  |
| 40°   | 940.4  | 902.6  | 868.7  | 834.7  | 819.6  | 800.7  | 774.2  | 751.6  | 736.5  | 721.4  | 702.5  |
| 42.5° | 849.8  | 800.7  | 762.9  | 732.7  | 713.8  | 702.5  | 672.3  | 657.2  | 638.3  | 619.4  | 611.8  |
| 45°   | 747.8  | 710.0  | 664.7  | 634.5  | 619.4  | 608.1  | 581.6  | 562.7  | 543.9  | 532.5  | 521.2  |
| 47.5° | 645.8  | 615.6  | 574.1  | 540.1  | 528.7  | 517.4  | 498.5  | 475.9  | 460.8  | 449.4  | 438.1  |
| 50°   | 543.9  | 521.2  | 498.5  | 460.8  | 449.4  | 445.7  | 423.0  | 404.1  | 389.0  | 381.5  | 370.1  |
| 52.5° | 460.8  | 441.9  | 419.2  | 392.8  | 381.5  | 370.1  | 355.0  | 336.1  | 328.6  | 317.2  | 309.7  |
| 55°   | 381.5  | 362.6  | 351.2  | 332.4  | 317.2  | 309.7  | 294.6  | 283.3  | 271.9  | 260.6  | 253.0  |
| 57.5° | 313.5  | 302.1  | 290.8  | 275.7  | 268.1  | 260.6  | 245.5  | 234.2  | 222.8  | 211.5  | 203.9  |
| 60°   | 260.6  | 249.3  | 237.9  | 226.6  | 219.1  | 215.3  | 200.2  | 188.8  | 177.5  | 170.0  | 162.4  |
| 62.5° | 215.3  | 207.7  | 196.4  | 185.1  | 177.5  | 173.7  | 162.4  | 151.1  | 139.7  | 136.0  | 128.4  |
| 65°   | 177.5  | 170.0  | 158.6  | 147.3  | 147.3  | 139.7  | 128.4  | 120.9  | 113.3  | 105.7  | 98.2   |
| 67.5° | 147.3  | 136.0  | 128.4  | 120.9  | 113.3  | 109.5  | 102.0  | 94.4   | 86.9   | 79.3   | 75.5   |
| 70°   | 117.1  | 109.5  | 102.0  | 90.6   | 86.9   | 83.1   | 75.5   | 68.0   | 64.2   | 56.7   | 52.9   |
| 72.5° | 90.6   | 83.1   | 75.5   | 68.0   | 64.2   | 60.4   | 56.7   | 49.1   | 45.3   | 41.5   | 37.8   |
| 75°   | 71.8   | 64.2   | 56.7   | 49.1   | 49.1   | 45.3   | 41.5   | 34.0   | 30.2   | 26.4   | 26.4   |
| 77.5° | 49.1   | 45.3   | 41.5   | 34.0   | 34.0   | 30.2   | 26.4   | 22.7   | 22.7   | 18.9   | 15.1   |
| 80°   | 34.0   | 30.2   | 26.4   | 22.7   | 18.9   | 18.9   | 15.1   | 15.1   | 11.3   | 11.3   | 7.6    |
| 82.5° | 22.7   | 18.9   | 15.1   | 11.3   | 11.3   | 11.3   | 7.6    | 7.6    | 7.6    | 3.8    | 3.8    |
| 85°   | 11.3   | 7.6    | 7.6    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    |
| 87.5° | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    |
| 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):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1994.1 | 1994.1 | 1994.1 | 1994.1 | 1994.1 | 1994.1 | 1994.1 | 1994.1 | 1994.1 | 1994.1 | 1994.1 |
| 2.5°  | 1979.0 | 1975.2 | 1971.5 | 1971.5 | 1971.5 | 1967.7 | 1963.9 | 1960.1 | 1960.1 | 1956.4 | 1956.4 |
| 5°    | 1948.8 | 1941.2 | 1937.5 | 1933.7 | 1933.7 | 1926.1 | 1922.4 | 1918.6 | 1914.8 | 1911.0 | 1907.3 |
| 7.5°  | 1903.5 | 1895.9 | 1888.4 | 1880.8 | 1880.8 | 1873.3 | 1865.7 | 1861.9 | 1854.4 | 1850.6 | 1846.8 |
| 10°   | 1846.8 | 1839.3 | 1827.9 | 1820.4 | 1812.8 | 1809.1 | 1797.7 | 1790.2 | 1786.4 | 1775.1 | 1771.3 |
| 12.5° | 1775.1 | 1763.7 | 1752.4 | 1744.9 | 1741.1 | 1729.8 | 1718.4 | 1714.6 | 1703.3 | 1695.8 | 1692.0 |
| 15°   | 1699.5 | 1684.4 | 1669.3 | 1665.5 | 1658.0 | 1646.7 | 1635.3 | 1624.0 | 1616.4 | 1605.1 | 1605.1 |
| 17.5° | 1612.7 | 1593.8 | 1582.5 | 1571.1 | 1567.4 | 1552.2 | 1537.1 | 1529.6 | 1518.3 | 1510.7 | 1506.9 |
| 20°   | 1518.3 | 1499.4 | 1484.3 | 1476.7 | 1465.4 | 1454.0 | 1438.9 | 1431.4 | 1420.1 | 1412.5 | 1408.7 |
| 22.5° | 1416.3 | 1393.6 | 1378.5 | 1371.0 | 1363.4 | 1344.5 | 1333.2 | 1325.6 | 1314.3 | 1306.8 | 1303.0 |
| 25°   | 1310.5 | 1295.4 | 1276.5 | 1265.2 | 1257.7 | 1238.8 | 1227.4 | 1219.9 | 1212.3 | 1204.8 | 1201.0 |
| 27.5° | 1204.8 | 1182.1 | 1163.2 | 1155.7 | 1148.1 | 1136.8 | 1117.9 | 1106.6 | 1102.8 | 1099.0 | 1095.3 |
| 30°   | 1099.0 | 1080.2 | 1061.3 | 1049.9 | 1038.6 | 1027.3 | 1015.9 | 1004.6 | 1000.8 | 993.3  | 985.7  |
| 32.5° | 1000.8 | 982.0  | 963.1  | 955.5  | 948.0  | 929.1  | 917.8  | 910.2  | 906.4  | 891.3  | 887.5  |
| 35°   | 898.9  | 883.8  | 872.4  | 864.9  | 861.1  | 846.0  | 838.4  | 819.6  | 812.0  | 804.4  | 800.7  |
| 37.5° | 793.1  | 778.0  | 766.7  | 766.7  | 759.1  | 751.6  | 744.0  | 736.5  | 721.4  | 717.6  | 713.8  |
| 40°   | 691.1  | 679.8  | 672.3  | 664.7  | 664.7  | 660.9  | 653.4  | 653.4  | 642.0  | 634.5  | 623.2  |
| 42.5° | 596.7  | 589.2  | 581.6  | 581.6  | 577.8  | 574.1  | 566.5  | 566.5  | 559.0  | 551.4  | 540.1  |
| 45°   | 509.9  | 498.5  | 494.8  | 494.8  | 491.0  | 487.2  | 483.4  | 483.4  | 475.9  | 468.3  | 460.8  |
| 47.5° | 430.5  | 423.0  | 419.2  | 415.4  | 411.7  | 411.7  | 407.9  | 404.1  | 400.3  | 392.8  | 385.2  |
| 50°   | 362.6  | 355.0  | 351.2  | 347.5  | 347.5  | 343.7  | 339.9  | 332.4  | 332.4  | 321.0  | 313.5  |
| 52.5° | 302.1  | 298.4  | 290.8  | 287.0  | 283.3  | 279.5  | 275.7  | 271.9  | 264.4  | 256.8  | 253.0  |
| 55°   | 245.5  | 237.9  | 234.2  | 230.4  | 226.6  | 222.8  | 219.1  | 215.3  | 211.5  | 200.2  | 192.6  |
| 57.5° | 196.4  | 188.8  | 185.1  | 185.1  | 181.3  | 173.7  | 170.0  | 166.2  | 158.6  | 151.1  | 139.7  |
| 60°   | 154.8  | 151.1  | 143.5  | 143.5  | 139.7  | 132.2  | 128.4  | 120.9  | 113.3  | 102.0  | 94.4   |
| 62.5° | 120.9  | 117.1  | 109.5  | 105.7  | 105.7  | 98.2   | 90.6   | 83.1   | 75.5   | 68.0   | 56.7   |
| 65°   | 90.6   | 86.9   | 83.1   | 79.3   | 75.5   | 68.0   | 60.4   | 52.9   | 45.3   | 34.0   | 22.7   |
| 67.5° | 68.0   | 64.2   | 56.7   | 56.7   | 52.9   | 45.3   | 37.8   | 30.2   | 18.9   | 11.3   | 3.8    |
| 70°   | 49.1   | 45.3   | 37.8   | 34.0   | 34.0   | 26.4   | 18.9   | 11.3   | 0.0    | 0.0    | 0.0    |
| 72.5° | 34.0   | 30.2   | 22.7   | 18.9   | 18.9   | 11.3   | 3.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 22.7   | 18.9   | 11.3   | 11.3   | 7.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 11.3   | 7.6    | 3.8    | 3.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 3.8    | 3.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 3.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 3.8    | 0.0    | 0.0    | 0.0    | 3.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |





TEST NUMBER: P238337

CATALOG NUMBER: PRS640D010-S6M24-61SWWC-4000K

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1994.1 | 1994.1 | 1994.1 | 1994.1 | 1994.1 | 1994.1 | 1994.1 | 1994.1 |
| 2.5°  | 1956.4 | 1952.6 | 1952.6 | 1952.6 | 1948.8 | 1952.6 | 1952.6 | 1952.6 |
| 5°    | 1903.5 | 1903.5 | 1899.7 | 1899.7 | 1899.7 | 1895.9 | 1895.9 | 1895.9 |
| 7.5°  | 1839.3 | 1839.3 | 1835.5 | 1835.5 | 1835.5 | 1831.7 | 1827.9 | 1827.9 |
| 10°   | 1767.5 | 1767.5 | 1763.7 | 1763.7 | 1763.7 | 1760.0 | 1756.2 | 1756.2 |
| 12.5° | 1684.4 | 1684.4 | 1684.4 | 1680.7 | 1680.7 | 1680.7 | 1676.9 | 1680.7 |
| 15°   | 1601.3 | 1597.6 | 1597.6 | 1593.8 | 1590.0 | 1590.0 | 1590.0 | 1590.0 |
| 17.5° | 1503.1 | 1499.4 | 1499.4 | 1495.6 | 1499.4 | 1495.6 | 1495.6 | 1495.6 |
| 20°   | 1401.2 | 1401.2 | 1401.2 | 1401.2 | 1401.2 | 1401.2 | 1405.0 | 1405.0 |
| 22.5° | 1303.0 | 1299.2 | 1303.0 | 1299.2 | 1299.2 | 1303.0 | 1303.0 | 1306.8 |
| 25°   | 1201.0 | 1197.2 | 1197.2 | 1201.0 | 1201.0 | 1201.0 | 1204.8 | 1204.8 |
| 27.5° | 1087.7 | 1095.3 | 1095.3 | 1099.0 | 1099.0 | 1102.8 | 1106.6 | 1102.8 |
| 30°   | 989.5  | 989.5  | 989.5  | 993.3  | 997.1  | 1000.8 | 1004.6 | 1004.6 |
| 32.5° | 883.8  | 887.5  | 891.3  | 887.5  | 891.3  | 898.9  | 906.4  | 910.2  |
| 35°   | 796.9  | 789.3  | 785.6  | 785.6  | 789.3  | 793.1  | 796.9  | 800.7  |
| 37.5° | 702.5  | 698.7  | 694.9  | 687.4  | 691.1  | 694.9  | 694.9  | 694.9  |
| 40°   | 615.6  | 608.1  | 604.3  | 600.5  | 596.7  | 592.9  | 592.9  | 592.9  |
| 42.5° | 532.5  | 525.0  | 517.4  | 517.4  | 506.1  | 502.3  | 502.3  | 498.5  |
| 45°   | 453.2  | 445.7  | 438.1  | 438.1  | 426.8  | 415.4  | 411.7  | 411.7  |
| 47.5° | 377.7  | 366.3  | 362.6  | 358.8  | 347.5  | 336.1  | 328.6  | 324.8  |
| 50°   | 305.9  | 294.6  | 290.8  | 287.0  | 275.7  | 260.6  | 253.0  | 249.3  |
| 52.5° | 241.7  | 230.4  | 222.8  | 219.1  | 203.9  | 192.6  | 185.1  | 181.3  |
| 55°   | 181.3  | 173.7  | 166.2  | 162.4  | 147.3  | 132.2  | 120.9  | 120.9  |
| 57.5° | 132.2  | 117.1  | 113.3  | 109.5  | 94.4   | 83.1   | 71.8   | 68.0   |
| 60°   | 86.9   | 71.8   | 68.0   | 64.2   | 49.1   | 37.8   | 34.0   | 30.2   |
| 62.5° | 45.3   | 34.0   | 30.2   | 26.4   | 18.9   | 11.3   | 7.6    | 7.6    |
| 65°   | 15.1   | 3.8    | 3.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)