

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P584379

Luminaire Tested: **HC835D010-HM82555827-81RWWH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC835D010-HM82555827-81RWWH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3695.4 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

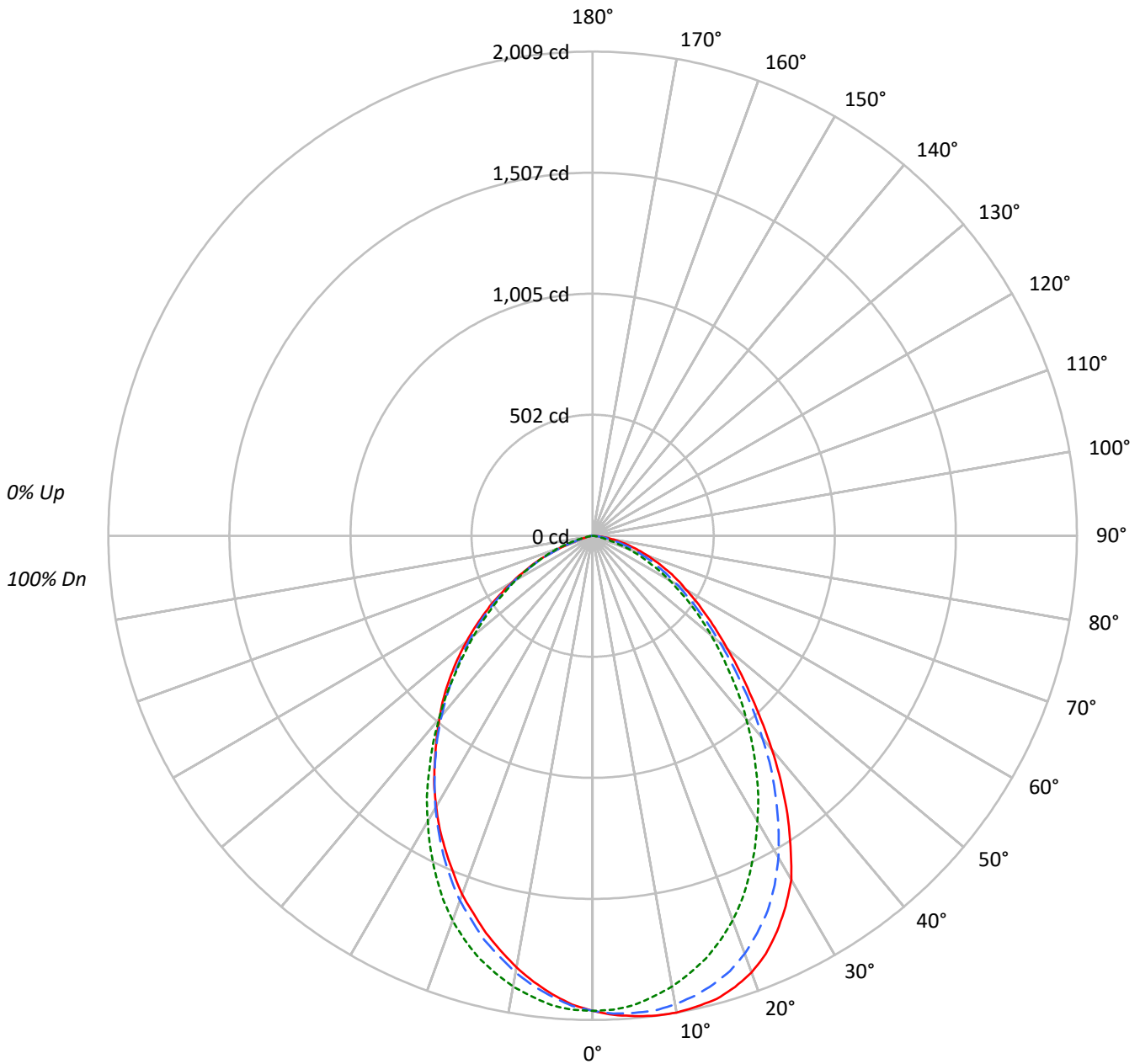
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584379

CATALOG NUMBER: HC835D010-HM82555827-81RWWH

Luminous Intensity Polar Plot





TEST NUMBER: P584379

CATALOG NUMBER: HC835D010-HM82555827-81RWWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|-----|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | 0 | | | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | 100 | | | | | | | | | | | | | | | |
| 1 | 111 | 107 | 104 | 100 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | | 88 | | | | | | | | | | | | | | | |
| 2 | 103 | 96 | 90 | 85 | 100 | 94 | 89 | 84 | 90 | 86 | 82 | 87 | 84 | 80 | 84 | 81 | 79 | 77 | | | | 77 | | | | | | | | | | | | | | | |
| 3 | 95 | 86 | 79 | 73 | 92 | 84 | 78 | 73 | 81 | 76 | 71 | 79 | 74 | 70 | 76 | 72 | 69 | 67 | | | | 67 | | | | | | | | | | | | | | | |
| 4 | 88 | 77 | 70 | 64 | 86 | 76 | 69 | 63 | 74 | 67 | 63 | 71 | 66 | 62 | 69 | 65 | 61 | 59 | | | | 59 | | | | | | | | | | | | | | | |
| 5 | 81 | 70 | 62 | 56 | 79 | 69 | 62 | 56 | 67 | 60 | 55 | 65 | 59 | 55 | 63 | 58 | 54 | 52 | | | | 52 | | | | | | | | | | | | | | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 55 | 50 | 61 | 54 | 49 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | 47 | | | | | | | | | | | | | | | |
| 7 | 71 | 58 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 49 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | | | | 42 | | | | | | | | | | | | | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | | 38 | | | | | | | | | | | | | | | |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 41 | 37 | 47 | 41 | 37 | 46 | 41 | 36 | 35 | | | | 35 | | | | | | | | | | | | | | | |
| 10 | 58 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | 32 | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 60785 | 60785 | 60785 |
| 5° | 61930 | 60525 | 59119 |
| 10° | 62896 | 59465 | 56953 |
| 15° | 63526 | 57984 | 54488 |
| 20° | 63284 | 55747 | 51976 |
| 25° | 61618 | 52530 | 49076 |
| 30° | 58683 | 48692 | 46225 |
| 35° | 52988 | 44443 | 42933 |
| 40° | 46554 | 39892 | 39779 |
| 45° | 40186 | 35062 | 36575 |
| 50° | 34982 | 30751 | 32804 |
| 55° | 31020 | 26709 | 28580 |
| 60° | 27679 | 22572 | 23725 |
| 65° | 24947 | 18321 | 18708 |
| 70° | 22152 | 13731 | 11081 |
| 75° | 19099 | 7947 | 4766 |
| 80° | 14704 | 2859 | 1421 |
| 85° | 9447 | 920 | 920 |



TEST NUMBER: P584379

CATALOG NUMBER: HC835D010-HM82555827-81RWWH

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 185.0 | 5.0 |
| 10°-20° | 515.1 | 13.9 |
| 20°-30° | 728.6 | 19.7 |
| 30°-40° | 767.8 | 20.8 |
| 40°-50° | 652.5 | 17.7 |
| 50°-60° | 469.9 | 12.7 |
| 60°-70° | 271.0 | 7.3 |
| 70°-80° | 92.7 | 2.5 |
| 80°-90° | 12.7 | 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° | 1428.8 | 38.7 |
| 0°-40° | 2196.5 | 59.4 |
| 0°-60° | 3318.9 | 89.8 |
| 0°-90° | 3695.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3695.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1971 | 1971 | 1971 | 1971 | 1971 | |
| 5° | 2001 | 1987 | 1955 | 1920 | 1910 | 191 |
| 15° | 1990 | 1928 | 1816 | 1736 | 1707 | 560 |
| 25° | 1811 | 1718 | 1544 | 1464 | 1442 | 831 |
| 35° | 1408 | 1325 | 1181 | 1138 | 1140 | 877 |
| 45° | 922 | 879 | 804 | 809 | 839 | 716 |
| 55° | 577 | 532 | 497 | 516 | 532 | 519 |
| 65° | 342 | 294 | 251 | 246 | 256 | 340 |
| 75° | 160 | 120 | 67 | 43 | 40 | 169 |
| 85° | 27 | 16 | 3 | 3 | 3 | 36 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P584379

CATALOG NUMBER: HC835D010-HM82555827-81RWWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 |
| 2.5° | 1989.9 | 1992.6 | 1989.9 | 1989.9 | 1987.2 | 1984.6 | 1982.0 | 1979.2 | 1973.9 | 1968.6 | 1968.6 |
| 5° | 2000.7 | 2005.9 | 2000.7 | 2000.7 | 1992.6 | 1987.2 | 1982.0 | 1973.9 | 1963.2 | 1955.3 | 1955.3 |
| 7.5° | 2008.7 | 2008.7 | 2008.7 | 2000.7 | 1995.3 | 1987.2 | 1973.9 | 1960.5 | 1947.2 | 1933.8 | 1928.5 |
| 10° | 2008.7 | 2008.7 | 2005.9 | 1995.3 | 1989.9 | 1973.9 | 1960.5 | 1941.8 | 1923.1 | 1904.5 | 1899.1 |
| 12.5° | 2000.7 | 2003.3 | 1997.9 | 1987.2 | 1973.9 | 1955.3 | 1936.6 | 1912.5 | 1891.0 | 1869.7 | 1859.1 |
| 15° | 1989.9 | 1987.2 | 1982.0 | 1968.6 | 1952.5 | 1928.5 | 1909.9 | 1883.1 | 1853.7 | 1827.0 | 1816.3 |
| 17.5° | 1963.2 | 1963.2 | 1955.3 | 1941.8 | 1920.5 | 1893.8 | 1864.4 | 1835.0 | 1803.0 | 1773.5 | 1760.2 |
| 20° | 1928.5 | 1928.5 | 1917.8 | 1901.8 | 1880.4 | 1845.6 | 1813.7 | 1778.9 | 1741.5 | 1712.2 | 1698.8 |
| 22.5° | 1877.7 | 1880.4 | 1867.1 | 1848.4 | 1824.3 | 1784.3 | 1752.2 | 1709.4 | 1672.0 | 1637.3 | 1626.6 |
| 25° | 1811.0 | 1816.3 | 1803.0 | 1784.3 | 1752.2 | 1717.5 | 1677.4 | 1637.3 | 1594.7 | 1559.9 | 1543.9 |
| 27.5° | 1733.5 | 1736.1 | 1722.8 | 1704.2 | 1672.0 | 1634.7 | 1594.7 | 1551.9 | 1511.8 | 1474.4 | 1458.4 |
| 30° | 1648.1 | 1637.3 | 1632.0 | 1608.0 | 1573.2 | 1541.2 | 1495.8 | 1461.1 | 1418.3 | 1386.3 | 1367.5 |
| 32.5° | 1527.8 | 1533.2 | 1517.1 | 1498.5 | 1471.7 | 1434.4 | 1397.0 | 1356.9 | 1316.8 | 1292.8 | 1279.5 |
| 35° | 1407.6 | 1413.0 | 1405.0 | 1386.3 | 1356.9 | 1324.9 | 1287.5 | 1258.0 | 1223.4 | 1193.9 | 1180.6 |
| 37.5° | 1282.1 | 1282.1 | 1276.7 | 1266.0 | 1244.7 | 1215.4 | 1177.9 | 1148.5 | 1119.2 | 1095.1 | 1087.1 |
| 40° | 1156.5 | 1151.3 | 1148.5 | 1140.5 | 1121.8 | 1095.1 | 1071.1 | 1047.1 | 1017.7 | 1001.6 | 991.0 |
| 42.5° | 1033.8 | 1033.8 | 1028.4 | 1020.3 | 1001.6 | 988.2 | 964.3 | 937.6 | 916.1 | 900.2 | 900.2 |
| 45° | 921.5 | 924.1 | 916.1 | 910.8 | 900.2 | 878.7 | 857.4 | 838.7 | 820.0 | 809.4 | 804.0 |
| 47.5° | 822.7 | 822.7 | 814.6 | 809.4 | 798.6 | 779.9 | 761.2 | 745.3 | 731.9 | 723.8 | 721.2 |
| 50° | 729.2 | 729.2 | 729.2 | 715.8 | 702.5 | 689.1 | 675.8 | 657.1 | 649.1 | 643.7 | 641.0 |
| 52.5° | 649.1 | 646.4 | 646.4 | 635.7 | 622.4 | 606.3 | 593.0 | 577.0 | 568.9 | 563.5 | 566.3 |
| 55° | 577.0 | 577.0 | 574.3 | 560.9 | 547.6 | 531.6 | 518.1 | 504.8 | 499.4 | 494.2 | 496.8 |
| 56° | 547.6 | 547.6 | 544.9 | 534.2 | 518.1 | 504.8 | 488.8 | 475.5 | 467.5 | 470.1 | 470.1 |
| 57° | 526.2 | 520.9 | 520.9 | 507.5 | 494.2 | 475.5 | 462.1 | 448.8 | 443.4 | 440.7 | 440.7 |
| 58° | 499.4 | 496.8 | 494.2 | 480.8 | 467.5 | 451.4 | 438.1 | 424.7 | 416.7 | 416.7 | 414.0 |
| 59° | 472.7 | 472.7 | 467.5 | 456.8 | 443.4 | 427.3 | 414.0 | 400.6 | 392.6 | 389.9 | 389.9 |
| 60° | 448.8 | 451.4 | 443.4 | 432.7 | 422.1 | 403.4 | 387.3 | 376.7 | 368.6 | 366.0 | 366.0 |
| 61° | 427.3 | 427.3 | 422.1 | 408.6 | 395.3 | 381.9 | 366.0 | 352.6 | 347.2 | 341.9 | 341.9 |
| 62° | 408.6 | 403.4 | 400.6 | 387.3 | 373.9 | 358.0 | 344.5 | 331.2 | 323.2 | 317.8 | 320.6 |
| 63° | 384.7 | 381.9 | 376.7 | 366.0 | 352.6 | 336.5 | 320.6 | 309.8 | 301.8 | 293.9 | 296.5 |
| 64° | 366.0 | 363.2 | 355.2 | 344.5 | 331.2 | 315.2 | 299.1 | 288.5 | 283.1 | 275.1 | 272.4 |
| 65° | 341.9 | 339.3 | 336.5 | 323.2 | 309.8 | 293.9 | 280.5 | 269.8 | 261.8 | 256.4 | 251.1 |
| 66° | 320.6 | 323.2 | 317.8 | 307.2 | 291.1 | 277.8 | 259.1 | 248.5 | 243.1 | 235.0 | 229.7 |
| 67° | 301.8 | 301.8 | 296.5 | 285.8 | 269.8 | 256.4 | 243.1 | 229.7 | 221.7 | 213.7 | 211.0 |
| 67.5° | 291.1 | 291.1 | 285.8 | 272.4 | 261.8 | 245.7 | 232.4 | 221.7 | 211.0 | 205.7 | 200.3 |
| 68° | 280.5 | 280.5 | 277.8 | 267.2 | 253.7 | 237.7 | 224.4 | 211.0 | 200.3 | 192.3 | 189.6 |
| 69° | 261.8 | 264.4 | 259.1 | 248.5 | 235.0 | 219.0 | 205.7 | 195.0 | 184.3 | 176.3 | 171.0 |
| 70° | 245.7 | 243.1 | 237.7 | 227.0 | 213.7 | 202.9 | 189.6 | 176.3 | 165.6 | 154.9 | 152.3 |
| 71° | 224.4 | 224.4 | 219.0 | 211.0 | 197.7 | 184.3 | 171.0 | 160.3 | 149.6 | 136.2 | 133.6 |
| 72° | 208.3 | 208.3 | 202.9 | 192.3 | 181.6 | 168.3 | 154.9 | 141.6 | 133.6 | 120.2 | 114.9 |
| 72.5° | 197.7 | 200.3 | 195.0 | 184.3 | 173.6 | 157.5 | 146.9 | 136.2 | 122.9 | 112.1 | 106.9 |
| 73° | 192.3 | 189.6 | 187.0 | 176.3 | 162.9 | 152.3 | 138.8 | 128.2 | 114.9 | 104.2 | 98.8 |



TEST NUMBER: P584379

CATALOG NUMBER: HC835D010-HM82555827-81RWWH

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 77.5° | 120.2 | 120.2 | 117.5 | 106.9 | 96.2 | 85.4 | 74.8 | 64.1 | 53.4 | 42.8 | 37.4 |
| 80° | 82.8 | 85.4 | 80.1 | 74.8 | 66.7 | 56.1 | 45.4 | 37.4 | 26.7 | 21.3 | 16.1 |
| 82.5° | 53.4 | 53.4 | 50.8 | 45.4 | 40.0 | 32.1 | 26.7 | 18.7 | 13.3 | 10.7 | 8.0 |
| 85° | 26.7 | 29.4 | 26.7 | 24.1 | 18.7 | 16.1 | 13.3 | 8.0 | 5.4 | 2.6 | 2.6 |
| 87.5° | 10.7 | 10.7 | 10.7 | 8.0 | 8.0 | 5.4 | 2.6 | 2.6 | 2.6 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 | 1971.2 |
| 2.5° | 1963.2 | 1963.2 | 1957.9 | 1955.3 | 1952.5 | 1949.9 | 1947.2 | 1944.5 | 1944.5 | 1947.2 |
| 5° | 1947.2 | 1941.8 | 1931.2 | 1928.5 | 1920.5 | 1917.8 | 1912.5 | 1909.9 | 1912.5 | 1909.9 |
| 7.5° | 1923.1 | 1912.5 | 1899.1 | 1893.8 | 1883.1 | 1877.7 | 1869.7 | 1869.7 | 1864.4 | 1867.1 |
| 10° | 1891.0 | 1875.1 | 1859.1 | 1848.4 | 1840.4 | 1832.3 | 1827.0 | 1821.7 | 1818.9 | 1818.9 |
| 12.5° | 1851.0 | 1832.3 | 1816.3 | 1800.2 | 1786.9 | 1781.5 | 1770.9 | 1770.9 | 1765.6 | 1762.9 |
| 15° | 1805.6 | 1781.5 | 1762.9 | 1746.9 | 1736.1 | 1725.5 | 1717.5 | 1712.2 | 1706.8 | 1706.8 |
| 17.5° | 1746.9 | 1725.5 | 1706.8 | 1688.1 | 1672.0 | 1664.0 | 1656.0 | 1648.1 | 1648.1 | 1642.7 |
| 20° | 1682.7 | 1658.8 | 1642.7 | 1624.0 | 1610.6 | 1597.3 | 1586.6 | 1586.6 | 1581.2 | 1583.9 |
| 22.5° | 1610.6 | 1581.2 | 1565.2 | 1551.9 | 1538.5 | 1527.8 | 1517.1 | 1517.1 | 1514.5 | 1511.8 |
| 25° | 1530.6 | 1506.5 | 1487.8 | 1471.7 | 1463.7 | 1453.1 | 1450.4 | 1445.0 | 1442.4 | 1442.4 |
| 27.5° | 1445.0 | 1426.3 | 1402.3 | 1394.2 | 1383.6 | 1378.3 | 1378.3 | 1375.5 | 1370.3 | 1372.9 |
| 30° | 1354.2 | 1332.9 | 1319.5 | 1314.2 | 1303.4 | 1303.4 | 1300.8 | 1295.5 | 1295.5 | 1298.2 |
| 32.5° | 1266.0 | 1244.7 | 1234.1 | 1231.3 | 1220.6 | 1220.6 | 1218.0 | 1220.6 | 1220.6 | 1223.4 |
| 35° | 1170.0 | 1151.3 | 1148.5 | 1140.5 | 1137.9 | 1137.9 | 1137.9 | 1143.3 | 1148.5 | 1140.5 |
| 37.5° | 1079.2 | 1065.7 | 1057.7 | 1055.1 | 1057.7 | 1057.7 | 1060.3 | 1068.4 | 1065.7 | 1063.1 |
| 40° | 985.6 | 974.9 | 969.5 | 969.5 | 974.9 | 980.3 | 980.3 | 988.2 | 991.0 | 988.2 |
| 42.5° | 892.2 | 884.1 | 884.1 | 886.8 | 892.2 | 894.8 | 902.8 | 910.8 | 913.5 | 916.1 |
| 45° | 804.0 | 804.0 | 804.0 | 806.6 | 809.4 | 814.6 | 825.3 | 833.3 | 836.1 | 838.7 |
| 47.5° | 718.6 | 715.8 | 723.8 | 726.5 | 734.5 | 737.2 | 745.3 | 755.9 | 758.6 | 761.2 |
| 50° | 638.4 | 643.7 | 646.4 | 654.3 | 659.7 | 659.7 | 670.4 | 675.8 | 683.8 | 683.8 |
| 52.5° | 563.5 | 571.6 | 574.3 | 582.3 | 585.0 | 587.6 | 593.0 | 601.0 | 606.3 | 606.3 |
| 55° | 496.8 | 499.4 | 504.8 | 507.5 | 515.5 | 518.1 | 523.5 | 526.2 | 534.2 | 531.6 |
| 56° | 467.5 | 472.7 | 475.5 | 480.8 | 486.1 | 488.8 | 494.2 | 496.8 | 502.2 | 504.8 |
| 57° | 440.7 | 443.4 | 451.4 | 454.0 | 459.4 | 459.4 | 462.1 | 470.1 | 470.1 | 472.7 |
| 58° | 414.0 | 419.3 | 422.1 | 424.7 | 430.1 | 432.7 | 438.1 | 440.7 | 443.4 | 440.7 |
| 59° | 389.9 | 392.6 | 395.3 | 395.3 | 400.6 | 400.6 | 408.6 | 414.0 | 416.7 | 416.7 |
| 60° | 366.0 | 366.0 | 368.6 | 371.3 | 376.7 | 379.3 | 379.3 | 384.7 | 384.7 | 384.7 |
| 61° | 341.9 | 341.9 | 344.5 | 347.2 | 349.9 | 349.9 | 355.2 | 355.2 | 358.0 | 360.6 |
| 62° | 320.6 | 317.8 | 317.8 | 320.6 | 320.6 | 325.9 | 328.5 | 331.2 | 333.9 | 331.2 |
| 63° | 296.5 | 293.9 | 293.9 | 293.9 | 293.9 | 299.1 | 299.1 | 301.8 | 307.2 | 304.5 |
| 64° | 269.8 | 269.8 | 269.8 | 269.8 | 272.4 | 272.4 | 277.8 | 280.5 | 283.1 | 285.8 |
| 65° | 251.1 | 245.7 | 243.1 | 243.1 | 245.7 | 248.5 | 251.1 | 253.7 | 256.4 | 256.4 |
| 66° | 229.7 | 224.4 | 221.7 | 221.7 | 221.7 | 221.7 | 227.0 | 227.0 | 232.4 | 232.4 |
| 67° | 205.7 | 200.3 | 197.7 | 195.0 | 195.0 | 195.0 | 202.9 | 200.3 | 200.3 | 200.3 |
| 67.5° | 197.7 | 189.6 | 187.0 | 184.3 | 181.6 | 187.0 | 184.3 | 187.0 | 187.0 | 184.3 |
| 68° | 187.0 | 181.6 | 176.3 | 171.0 | 171.0 | 171.0 | 173.6 | 176.3 | 173.6 | 171.0 |
| 69° | 165.6 | 162.9 | 154.9 | 149.6 | 146.9 | 149.6 | 146.9 | 149.6 | 146.9 | 149.6 |
| 70° | 146.9 | 138.8 | 130.8 | 128.2 | 125.6 | 125.6 | 125.6 | 122.9 | 125.6 | 122.9 |
| 71° | 128.2 | 120.2 | 112.1 | 106.9 | 104.2 | 104.2 | 101.5 | 104.2 | 101.5 | 104.2 |
| 72° | 109.5 | 101.5 | 90.8 | 85.4 | 85.4 | 85.4 | 85.4 | 82.8 | 85.4 | 82.8 |
| 72.5° | 101.5 | 90.8 | 82.8 | 77.5 | 74.8 | 74.8 | 74.8 | 74.8 | 72.1 | 74.8 |
| 73° | 93.4 | 82.8 | 72.1 | 69.5 | 69.5 | 69.5 | 66.7 | 64.1 | 66.7 | 66.7 |



TEST NUMBER: P584379

CATALOG NUMBER: HC835D010-HM82555827-81RWWH

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|------|------|------|------|------|------|------|------|------|------|
| 77.5° | 32.1 | 24.1 | 21.3 | 21.3 | 21.3 | 21.3 | 21.3 | 21.3 | 18.7 | 18.7 |
| 80° | 13.3 | 10.7 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| 82.5° | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| 85° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| 87.5° | 0.0 | 0.0 | 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 | 0.0 | 0.0 |



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— 0°-180° - - 45°-225° - - - - 90°-270°







| | | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| 74° | 173.6 | 173.6 | 168.3 | 160.3 | 146.9 | 133.6 | 122.9 | 112.1 | 98.8 | 85.4 | 80.1 |
| 75° | 160.3 | 157.5 | 152.3 | 144.2 | 133.6 | 120.2 | 109.5 | 96.2 | 85.4 | 72.1 | 66.7 |





| | | | | | | | | | | |
|-----|------|------|------|------|------|------|------|------|------|------|
| 74° | 77.5 | 64.1 | 58.8 | 53.4 | 53.4 | 53.4 | 50.8 | 50.8 | 50.8 | 53.4 |
| 75° | 61.5 | 50.8 | 45.4 | 40.0 | 42.8 | 40.0 | 42.8 | 40.0 | 40.0 | 40.0 |



(END OF REPORT)