

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: P593617

Luminaire Tested: **HC820D010-HM80520950-81WWWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593617  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC820D010-HM80520950-81WWWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2015.6 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

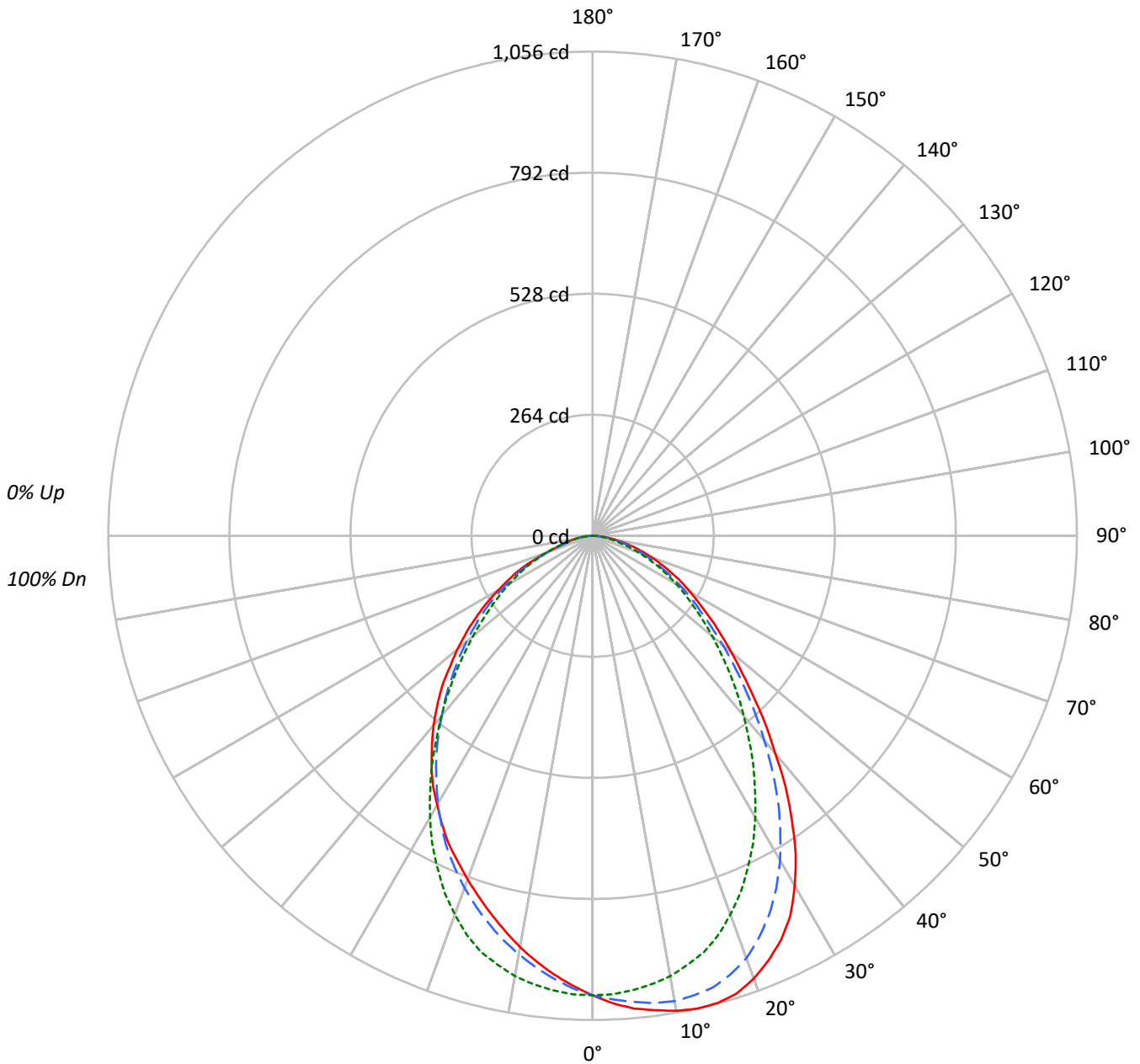
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 0 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |   |
| 1   | 110 | 106 | 103 | 99  | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 92  | 91  | 89  | 87  |    |    |   |
| 2   | 102 | 94  | 88  | 83  | 99  | 93  | 87  | 82  | 89  | 85  | 81  | 86  | 82  | 79  | 83  | 80  | 77  | 75  |    |    |   |
| 3   | 94  | 84  | 77  | 71  | 91  | 83  | 76  | 71  | 80  | 74  | 69  | 77  | 72  | 68  | 75  | 71  | 67  | 65  |    |    |   |
| 4   | 87  | 76  | 68  | 62  | 84  | 75  | 67  | 61  | 72  | 66  | 61  | 70  | 64  | 60  | 68  | 63  | 59  | 57  |    |    |   |
| 5   | 80  | 69  | 60  | 54  | 78  | 67  | 60  | 54  | 65  | 59  | 54  | 64  | 58  | 53  | 62  | 57  | 52  | 50  |    |    |   |
| 6   | 75  | 62  | 54  | 48  | 73  | 61  | 54  | 48  | 60  | 53  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 45  |    |    |   |
| 7   | 70  | 57  | 49  | 43  | 68  | 56  | 49  | 43  | 55  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 42  | 40  |    |    |   |
| 8   | 65  | 52  | 45  | 39  | 64  | 52  | 44  | 39  | 51  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 38  | 37  |    |    |   |
| 9   | 61  | 48  | 41  | 36  | 60  | 48  | 41  | 36  | 47  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 33  |    |    |   |
| 10  | 57  | 45  | 38  | 33  | 56  | 44  | 37  | 33  | 44  | 37  | 32  | 43  | 37  | 32  | 42  | 36  | 32  | 30  |    |    |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 30904 | 30904 | 30904 |
| 5°  | 32037 | 30799 | 29741 |
| 10° | 32940 | 30535 | 28528 |
| 15° | 33674 | 29996 | 27266 |
| 20° | 33724 | 28822 | 26157 |
| 25° | 33082 | 27219 | 25236 |
| 30° | 31377 | 25245 | 24127 |
| 35° | 28508 | 22989 | 23046 |
| 40° | 24925 | 20630 | 21717 |
| 45° | 21604 | 18377 | 20239 |
| 50° | 18916 | 16320 | 18441 |
| 55° | 16838 | 14462 | 16682 |
| 60° | 15190 | 12988 | 14660 |
| 65° | 13710 | 11426 | 12776 |
| 70° | 12316 | 9620  | 9494  |
| 75° | 10854 | 7637  | 7125  |
| 80° | 9110  | 6322  | 6819  |
| 85° | 7076  | 5519  | 6050  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 94.5   | 4.7       |
| 10°-20°   | 266.3  | 13.2      |
| 20°-30°   | 380.6  | 18.9      |
| 30°-40°   | 404.4  | 20.1      |
| 40°-50°   | 348.2  | 17.3      |
| 50°-60°   | 260.3  | 12.9      |
| 60°-70°   | 166.0  | 8.2       |
| 70°-80°   | 75.5   | 3.7       |
| 80°-90°   | 19.8   | 1.0       |
| 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°    | 741.4  | 36.8      |
| 0°-40°    | 1145.8 | 56.8      |
| 0°-60°    | 1754.2 | 87.0      |
| 0°-90°    | 2015.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2015.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1002 | 1002 | 1002 | 1002 | 1002 |      |
| 5°  | 1035 | 1021 | 995  | 970  | 961  | 99   |
| 15° | 1055 | 1019 | 940  | 876  | 854  | 297  |
| 25° | 972  | 911  | 800  | 752  | 742  | 445  |
| 35° | 757  | 705  | 611  | 595  | 612  | 472  |
| 45° | 495  | 468  | 421  | 433  | 464  | 385  |
| 55° | 313  | 288  | 269  | 292  | 310  | 282  |
| 65° | 188  | 166  | 157  | 164  | 175  | 187  |
| 75° | 91   | 78   | 64   | 58   | 60   | 97   |
| 85° | 20   | 17   | 16   | 17   | 17   | 24   |
| 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°    | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 |
| 2.5°  | 1020.7 | 1017.8 | 1019.2 | 1017.8 | 1019.2 | 1019.2 | 1016.4 | 1016.4 | 1016.4 | 1016.4 | 1012.1 |
| 5°    | 1035.0 | 1033.5 | 1033.5 | 1032.0 | 1030.6 | 1032.0 | 1030.6 | 1029.2 | 1026.3 | 1024.9 | 1020.7 |
| 7.5°  | 1043.5 | 1043.5 | 1043.5 | 1043.5 | 1042.1 | 1040.6 | 1039.2 | 1036.4 | 1033.5 | 1030.6 | 1027.7 |
| 10°   | 1052.0 | 1053.4 | 1052.0 | 1050.6 | 1049.1 | 1046.3 | 1044.9 | 1042.1 | 1037.8 | 1033.5 | 1030.6 |
| 12.5° | 1056.2 | 1056.2 | 1054.8 | 1054.8 | 1052.0 | 1050.6 | 1046.3 | 1042.1 | 1037.8 | 1033.5 | 1026.3 |
| 15°   | 1054.8 | 1054.8 | 1053.4 | 1052.0 | 1047.7 | 1046.3 | 1043.5 | 1039.2 | 1032.0 | 1026.3 | 1019.2 |
| 17.5° | 1046.3 | 1044.9 | 1042.1 | 1042.1 | 1036.4 | 1035.0 | 1032.0 | 1026.3 | 1019.2 | 1010.7 | 1002.2 |
| 20°   | 1027.7 | 1027.7 | 1026.3 | 1024.9 | 1019.2 | 1015.0 | 1012.1 | 1005.1 | 999.3  | 989.3  | 980.8  |
| 22.5° | 1002.2 | 1005.1 | 1002.2 | 999.3  | 992.2  | 990.8  | 986.5  | 978.0  | 969.5  | 958.0  | 948.1  |
| 25°   | 972.3  | 970.9  | 969.5  | 966.5  | 960.8  | 958.0  | 952.3  | 943.8  | 935.3  | 922.4  | 911.1  |
| 27.5° | 933.8  | 928.1  | 928.1  | 922.4  | 918.2  | 913.9  | 911.1  | 902.6  | 891.1  | 881.2  | 866.9  |
| 30°   | 881.2  | 882.6  | 875.5  | 874.1  | 866.9  | 864.0  | 858.4  | 849.9  | 839.9  | 828.5  | 817.1  |
| 32.5° | 824.2  | 820.0  | 820.0  | 814.3  | 808.6  | 804.4  | 802.8  | 792.9  | 784.4  | 773.0  | 761.6  |
| 35°   | 757.3  | 757.3  | 753.1  | 751.6  | 746.0  | 743.1  | 738.9  | 733.1  | 723.1  | 713.2  | 704.6  |
| 37.5° | 691.8  | 689.0  | 687.6  | 684.7  | 680.5  | 676.2  | 676.2  | 666.2  | 664.8  | 653.4  | 642.1  |
| 40°   | 619.2  | 622.1  | 619.2  | 615.0  | 613.6  | 610.7  | 609.3  | 603.5  | 599.3  | 589.3  | 582.3  |
| 42.5° | 558.0  | 555.2  | 555.2  | 553.8  | 548.1  | 548.1  | 545.3  | 542.4  | 535.2  | 532.4  | 523.9  |
| 45°   | 495.4  | 498.2  | 494.0  | 495.4  | 489.7  | 489.7  | 489.7  | 484.0  | 478.4  | 474.0  | 468.3  |
| 47.5° | 441.2  | 442.8  | 442.8  | 438.4  | 437.0  | 437.0  | 434.1  | 431.3  | 427.1  | 421.4  | 417.1  |
| 50°   | 394.3  | 395.7  | 392.9  | 391.5  | 388.6  | 387.2  | 387.2  | 381.5  | 378.7  | 372.9  | 370.1  |
| 52.5° | 351.6  | 351.6  | 350.2  | 350.2  | 346.0  | 346.0  | 343.0  | 338.8  | 335.9  | 333.1  | 326.0  |
| 55°   | 313.2  | 313.2  | 311.8  | 310.3  | 310.3  | 306.0  | 304.6  | 300.3  | 297.5  | 291.8  | 287.6  |
| 57.5° | 276.1  | 277.5  | 276.1  | 274.7  | 273.3  | 271.9  | 269.0  | 264.8  | 261.9  | 257.7  | 254.8  |
| 60°   | 246.3  | 246.3  | 244.8  | 243.4  | 240.5  | 239.1  | 237.7  | 234.9  | 230.6  | 227.8  | 223.5  |
| 62.5° | 217.8  | 216.4  | 215.0  | 213.6  | 210.6  | 210.6  | 207.8  | 205.0  | 200.7  | 197.9  | 195.0  |
| 65°   | 187.9  | 187.9  | 186.5  | 186.5  | 185.1  | 182.3  | 180.8  | 179.3  | 173.6  | 172.2  | 166.5  |
| 67.5° | 160.9  | 162.3  | 159.5  | 159.5  | 156.6  | 156.6  | 155.2  | 150.9  | 149.5  | 146.6  | 143.7  |
| 70°   | 136.6  | 136.6  | 136.6  | 135.2  | 132.4  | 131.0  | 129.5  | 126.7  | 125.3  | 122.5  | 119.6  |
| 72.5° | 112.4  | 112.4  | 111.0  | 111.0  | 109.6  | 108.2  | 106.7  | 103.9  | 103.9  | 101.1  | 98.2   |
| 75°   | 91.1   | 91.1   | 89.7   | 88.3   | 86.9   | 86.9   | 85.5   | 84.0   | 81.1   | 79.7   | 78.2   |
| 77.5° | 69.7   | 69.7   | 69.7   | 68.3   | 66.9   | 66.9   | 66.9   | 64.1   | 61.2   | 61.2   | 59.8   |
| 80°   | 51.3   | 51.3   | 49.9   | 49.9   | 48.3   | 48.3   | 48.3   | 46.9   | 45.5   | 44.1   | 42.7   |
| 82.5° | 34.2   | 34.2   | 34.2   | 34.2   | 32.7   | 32.7   | 32.7   | 31.3   | 29.9   | 29.9   | 29.9   |
| 85°   | 20.0   | 20.0   | 20.0   | 20.0   | 18.6   | 18.6   | 18.6   | 18.6   | 18.6   | 17.1   | 17.1   |
| 87.5° | 8.5    | 7.1    | 8.5    | 7.1    | 8.5    | 7.1    | 8.5    | 7.1    | 7.1    | 7.1    | 7.1    |
| 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°    | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 |
| 2.5°  | 1013.6 | 1012.1 | 1010.7 | 1009.3 | 1009.3 | 1007.9 | 1005.1 | 1003.6 | 1002.2 | 1000.8 | 1000.8 |
| 5°    | 1019.2 | 1017.8 | 1015.0 | 1012.1 | 1010.7 | 1007.9 | 1005.1 | 1002.2 | 999.3  | 995.0  | 993.6  |
| 7.5°  | 1023.5 | 1019.2 | 1016.4 | 1010.7 | 1009.3 | 1006.5 | 1002.2 | 997.8  | 992.2  | 986.5  | 982.2  |
| 10°   | 1023.5 | 1017.8 | 1013.6 | 1006.5 | 1003.6 | 1000.8 | 995.0  | 987.9  | 980.8  | 975.2  | 968.1  |
| 12.5° | 1020.7 | 1013.6 | 1006.5 | 999.3  | 995.0  | 990.8  | 982.2  | 975.2  | 966.5  | 958.0  | 952.3  |
| 15°   | 1010.7 | 1002.2 | 993.6  | 985.1  | 980.8  | 975.2  | 966.5  | 956.6  | 948.1  | 939.6  | 929.5  |
| 17.5° | 992.2  | 983.7  | 973.7  | 963.7  | 958.0  | 953.8  | 941.0  | 933.8  | 921.0  | 912.5  | 904.0  |
| 20°   | 968.1  | 958.0  | 945.2  | 935.3  | 928.1  | 923.9  | 913.9  | 901.0  | 891.1  | 878.3  | 869.8  |
| 22.5° | 936.7  | 923.9  | 911.1  | 901.0  | 893.9  | 888.3  | 875.5  | 862.6  | 854.1  | 842.8  | 832.7  |
| 25°   | 899.6  | 886.9  | 874.1  | 859.8  | 852.7  | 847.0  | 835.6  | 824.2  | 812.9  | 800.0  | 791.5  |
| 27.5° | 855.5  | 841.3  | 829.9  | 817.1  | 810.0  | 801.4  | 788.6  | 777.3  | 765.8  | 757.3  | 746.0  |
| 30°   | 807.2  | 791.5  | 780.1  | 767.2  | 760.1  | 753.1  | 740.3  | 728.8  | 718.9  | 709.0  | 703.2  |
| 32.5° | 748.8  | 737.3  | 726.0  | 713.2  | 707.5  | 703.2  | 690.4  | 679.1  | 667.6  | 659.1  | 654.8  |
| 35°   | 693.2  | 680.5  | 670.4  | 659.1  | 652.0  | 647.7  | 636.3  | 626.3  | 620.7  | 610.7  | 604.9  |
| 37.5° | 634.9  | 624.9  | 613.6  | 602.1  | 597.9  | 593.6  | 585.1  | 575.2  | 566.5  | 559.4  | 556.6  |
| 40°   | 573.6  | 565.1  | 555.2  | 548.1  | 543.8  | 539.5  | 532.4  | 525.3  | 519.6  | 512.5  | 509.7  |
| 42.5° | 515.4  | 509.7  | 501.0  | 492.5  | 488.3  | 486.9  | 478.4  | 472.6  | 469.7  | 466.9  | 464.1  |
| 45°   | 462.6  | 454.1  | 448.5  | 442.8  | 438.4  | 435.6  | 431.3  | 427.1  | 424.2  | 421.4  | 418.5  |
| 47.5° | 411.5  | 404.2  | 398.6  | 394.3  | 390.1  | 388.6  | 385.8  | 381.5  | 378.7  | 378.7  | 378.7  |
| 50°   | 364.4  | 358.7  | 353.1  | 350.2  | 348.8  | 346.0  | 343.0  | 341.6  | 340.2  | 340.2  | 340.2  |
| 52.5° | 323.2  | 317.5  | 313.2  | 310.3  | 310.3  | 307.4  | 304.6  | 303.2  | 303.2  | 303.2  | 303.2  |
| 55°   | 284.7  | 280.5  | 277.5  | 274.7  | 271.9  | 270.4  | 270.4  | 270.4  | 269.0  | 269.0  | 270.4  |
| 57.5° | 250.6  | 247.7  | 243.4  | 240.5  | 239.1  | 239.1  | 237.7  | 236.3  | 237.7  | 239.1  | 240.5  |
| 60°   | 219.3  | 216.4  | 215.0  | 210.6  | 210.6  | 210.6  | 209.2  | 209.2  | 209.2  | 210.6  | 212.1  |
| 62.5° | 190.8  | 189.4  | 186.5  | 185.1  | 183.7  | 183.7  | 182.3  | 182.3  | 182.3  | 182.3  | 183.7  |
| 65°   | 165.1  | 162.3  | 159.5  | 159.5  | 159.5  | 158.0  | 158.0  | 155.2  | 156.6  | 156.6  | 155.2  |
| 67.5° | 140.9  | 138.1  | 136.6  | 135.2  | 133.8  | 133.8  | 132.4  | 131.0  | 129.5  | 129.5  | 129.5  |
| 70°   | 118.2  | 115.4  | 115.4  | 112.4  | 112.4  | 111.0  | 109.6  | 109.6  | 108.2  | 106.7  | 105.3  |
| 72.5° | 95.4   | 94.0   | 92.6   | 91.1   | 91.1   | 91.1   | 89.7   | 88.3   | 86.9   | 85.5   | 82.6   |
| 75°   | 75.4   | 75.4   | 72.6   | 71.2   | 71.2   | 69.7   | 68.3   | 66.9   | 65.5   | 64.1   | 62.6   |
| 77.5° | 58.4   | 57.0   | 54.1   | 52.7   | 52.7   | 52.7   | 51.3   | 49.9   | 48.3   | 46.9   | 45.5   |
| 80°   | 42.7   | 41.3   | 39.8   | 38.4   | 38.4   | 38.4   | 37.0   | 37.0   | 35.6   | 35.6   | 35.6   |
| 82.5° | 28.5   | 28.5   | 27.1   | 27.1   | 27.1   | 27.1   | 25.6   | 25.6   | 25.6   | 25.6   | 25.6   |
| 85°   | 17.1   | 17.1   | 15.6   | 15.6   | 15.6   | 15.6   | 15.6   | 15.6   | 15.6   | 15.6   | 15.6   |
| 87.5° | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    |
| 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°    | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 |
| 2.5°  | 997.8  | 997.8  | 995.0  | 993.6  | 992.2  | 993.6  | 990.8  | 989.3  | 987.9  | 987.9  | 986.5  |
| 5°    | 989.3  | 987.9  | 982.2  | 980.8  | 979.4  | 978.0  | 975.2  | 972.3  | 969.5  | 968.1  | 966.5  |
| 7.5°  | 978.0  | 973.7  | 968.1  | 966.5  | 965.1  | 960.8  | 956.6  | 953.8  | 949.5  | 948.1  | 945.2  |
| 10°   | 962.3  | 956.6  | 952.3  | 948.1  | 945.2  | 941.0  | 936.7  | 932.4  | 926.7  | 925.3  | 921.0  |
| 12.5° | 943.8  | 936.7  | 928.1  | 926.7  | 922.4  | 916.8  | 911.1  | 906.8  | 902.6  | 899.6  | 895.4  |
| 15°   | 921.0  | 913.9  | 905.4  | 901.0  | 896.8  | 892.5  | 885.4  | 879.8  | 875.5  | 871.3  | 866.9  |
| 17.5° | 893.9  | 885.4  | 878.3  | 874.1  | 871.3  | 864.0  | 858.4  | 851.3  | 847.0  | 842.8  | 838.5  |
| 20°   | 861.2  | 854.1  | 844.2  | 839.9  | 838.5  | 832.7  | 825.6  | 822.8  | 817.1  | 812.9  | 810.0  |
| 22.5° | 824.2  | 817.1  | 808.6  | 805.8  | 800.0  | 797.1  | 790.0  | 787.2  | 784.4  | 780.1  | 778.7  |
| 25°   | 783.0  | 775.9  | 768.7  | 767.2  | 763.0  | 760.1  | 755.9  | 751.6  | 751.6  | 747.4  | 747.4  |
| 27.5° | 740.3  | 733.1  | 727.4  | 724.6  | 723.1  | 720.3  | 716.1  | 714.6  | 713.2  | 711.8  | 711.8  |
| 30°   | 694.7  | 686.2  | 683.3  | 681.9  | 680.5  | 677.6  | 676.2  | 673.4  | 674.8  | 676.2  | 674.8  |
| 32.5° | 646.3  | 643.5  | 637.7  | 634.9  | 636.3  | 634.9  | 632.0  | 634.9  | 633.4  | 636.3  | 637.7  |
| 35°   | 599.3  | 596.4  | 593.6  | 593.6  | 590.8  | 590.8  | 590.8  | 592.2  | 595.0  | 596.4  | 599.3  |
| 37.5° | 553.8  | 549.5  | 548.1  | 546.7  | 548.1  | 548.1  | 548.1  | 550.9  | 553.8  | 556.6  | 560.9  |
| 40°   | 505.3  | 502.5  | 502.5  | 502.5  | 502.5  | 506.7  | 505.3  | 508.3  | 511.1  | 515.4  | 519.6  |
| 42.5° | 459.8  | 459.8  | 461.2  | 461.2  | 461.2  | 461.2  | 464.1  | 468.3  | 472.6  | 476.9  | 481.2  |
| 45°   | 417.1  | 417.1  | 417.1  | 420.0  | 420.0  | 421.4  | 427.1  | 429.9  | 432.7  | 437.0  | 441.2  |
| 47.5° | 377.3  | 377.3  | 378.7  | 380.1  | 381.5  | 384.4  | 387.2  | 391.5  | 395.7  | 398.6  | 402.8  |
| 50°   | 340.2  | 341.6  | 344.6  | 347.4  | 347.4  | 348.8  | 353.1  | 355.9  | 358.7  | 363.0  | 364.4  |
| 52.5° | 304.6  | 307.4  | 310.3  | 311.8  | 313.2  | 316.1  | 317.5  | 321.7  | 323.2  | 327.4  | 328.8  |
| 55°   | 271.9  | 273.3  | 277.5  | 279.1  | 279.1  | 281.9  | 284.7  | 287.6  | 291.8  | 291.8  | 294.7  |
| 57.5° | 242.0  | 243.4  | 246.3  | 247.7  | 246.3  | 250.6  | 252.0  | 254.8  | 256.3  | 259.1  | 260.5  |
| 60°   | 212.1  | 215.0  | 216.4  | 216.4  | 217.8  | 219.3  | 222.1  | 222.1  | 224.9  | 227.8  | 227.8  |
| 62.5° | 183.7  | 185.1  | 186.5  | 187.9  | 189.4  | 187.9  | 192.2  | 192.2  | 195.0  | 196.4  | 199.3  |
| 65°   | 156.6  | 158.0  | 158.0  | 159.5  | 159.5  | 160.9  | 160.9  | 162.3  | 163.7  | 166.5  | 168.0  |
| 67.5° | 129.5  | 129.5  | 129.5  | 131.0  | 129.5  | 131.0  | 131.0  | 132.4  | 132.4  | 135.2  | 136.6  |
| 70°   | 105.3  | 103.9  | 102.5  | 102.5  | 102.5  | 102.5  | 101.1  | 102.5  | 102.5  | 103.9  | 103.9  |
| 72.5° | 81.1   | 79.7   | 78.2   | 76.8   | 76.8   | 75.4   | 74.0   | 75.4   | 75.4   | 76.8   | 76.8   |
| 75°   | 61.2   | 58.4   | 58.4   | 58.4   | 57.0   | 57.0   | 57.0   | 58.4   | 58.4   | 58.4   | 59.8   |
| 77.5° | 45.5   | 45.5   | 44.1   | 44.1   | 44.1   | 45.5   | 45.5   | 46.9   | 46.9   | 46.9   | 46.9   |
| 80°   | 34.2   | 35.6   | 35.6   | 35.6   | 35.6   | 37.0   | 37.0   | 37.0   | 37.0   | 38.4   | 38.4   |
| 82.5° | 25.6   | 25.6   | 25.6   | 25.6   | 27.1   | 27.1   | 27.1   | 27.1   | 27.1   | 27.1   | 27.1   |
| 85°   | 15.6   | 17.1   | 17.1   | 15.6   | 17.1   | 17.1   | 17.1   | 17.1   | 17.1   | 17.1   | 17.1   |
| 87.5° | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    |
| 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: P593617

CATALOG NUMBER: HC820D010-HM80520950-81WWWB

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 | 1002.2 |
| 2.5°  | 985.1  | 985.1  | 985.1  | 985.1  | 983.7  | 983.7  | 983.7  | 982.2  |
| 5°    | 963.7  | 963.7  | 963.7  | 960.8  | 962.3  | 962.3  | 959.4  | 960.8  |
| 7.5°  | 942.4  | 941.0  | 939.6  | 939.6  | 938.2  | 936.7  | 935.3  | 936.7  |
| 10°   | 918.2  | 913.9  | 913.9  | 912.5  | 912.5  | 909.7  | 909.7  | 911.1  |
| 12.5° | 891.1  | 888.3  | 888.3  | 886.9  | 885.4  | 884.0  | 882.6  | 882.6  |
| 15°   | 864.0  | 861.2  | 859.8  | 858.4  | 857.0  | 854.1  | 855.5  | 854.1  |
| 17.5° | 837.1  | 832.7  | 832.7  | 831.3  | 829.9  | 827.0  | 827.0  | 825.6  |
| 20°   | 805.8  | 804.4  | 801.4  | 802.8  | 801.4  | 798.6  | 797.1  | 797.1  |
| 22.5° | 774.4  | 774.4  | 773.0  | 773.0  | 771.6  | 770.1  | 768.7  | 768.7  |
| 25°   | 744.5  | 743.1  | 744.5  | 744.5  | 740.3  | 740.3  | 740.3  | 741.7  |
| 27.5° | 710.4  | 711.8  | 710.4  | 710.4  | 710.4  | 710.4  | 711.8  | 710.4  |
| 30°   | 676.2  | 676.2  | 676.2  | 677.6  | 680.5  | 679.1  | 679.1  | 677.6  |
| 32.5° | 639.1  | 640.6  | 640.6  | 642.1  | 643.5  | 646.3  | 646.3  | 647.7  |
| 35°   | 602.1  | 604.9  | 606.4  | 604.9  | 609.3  | 609.3  | 612.2  | 612.2  |
| 37.5° | 563.7  | 565.1  | 568.0  | 569.4  | 572.2  | 573.6  | 575.2  | 575.2  |
| 40°   | 522.4  | 528.1  | 529.5  | 531.0  | 535.2  | 535.2  | 536.6  | 539.5  |
| 42.5° | 484.0  | 489.7  | 491.1  | 492.5  | 495.4  | 499.6  | 498.2  | 501.0  |
| 45°   | 447.0  | 451.3  | 452.7  | 454.1  | 458.4  | 459.8  | 459.8  | 464.1  |
| 47.5° | 407.1  | 410.0  | 411.5  | 414.3  | 417.1  | 420.0  | 422.8  | 421.4  |
| 50°   | 367.2  | 371.5  | 374.3  | 375.8  | 380.1  | 381.5  | 383.0  | 384.4  |
| 52.5° | 331.7  | 334.5  | 335.9  | 337.3  | 341.6  | 343.0  | 344.6  | 347.4  |
| 55°   | 297.5  | 298.9  | 301.8  | 300.3  | 304.6  | 306.0  | 307.4  | 310.3  |
| 57.5° | 263.3  | 264.8  | 266.2  | 266.2  | 269.0  | 271.9  | 273.3  | 274.7  |
| 60°   | 230.6  | 233.4  | 234.9  | 234.9  | 234.9  | 237.7  | 237.7  | 237.7  |
| 62.5° | 200.7  | 200.7  | 202.1  | 202.1  | 205.0  | 205.0  | 205.0  | 205.0  |
| 65°   | 169.4  | 170.8  | 172.2  | 172.2  | 175.1  | 173.6  | 176.5  | 175.1  |
| 67.5° | 136.6  | 136.6  | 139.5  | 139.5  | 138.1  | 139.5  | 139.5  | 139.5  |
| 70°   | 103.9  | 103.9  | 105.3  | 105.3  | 105.3  | 105.3  | 105.3  | 105.3  |
| 72.5° | 76.8   | 76.8   | 76.8   | 78.2   | 76.8   | 76.8   | 78.2   | 76.8   |
| 75°   | 59.8   | 59.8   | 59.8   | 59.8   | 59.8   | 59.8   | 59.8   | 59.8   |
| 77.5° | 46.9   | 46.9   | 48.3   | 48.3   | 48.3   | 48.3   | 48.3   | 48.3   |
| 80°   | 38.4   | 38.4   | 38.4   | 38.4   | 39.8   | 38.4   | 38.4   | 38.4   |
| 82.5° | 28.5   | 27.1   | 28.5   | 27.1   | 28.5   | 28.5   | 28.5   | 28.5   |
| 85°   | 17.1   | 17.1   | 17.1   | 17.1   | 17.1   | 17.1   | 17.1   | 17.1   |
| 87.5° | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



Report Generated By 670245859 / DESKTOP-HRDQ47P





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















(END OF REPORT)