

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: P584234

Luminaire Tested: **HC825D010-HM82555940-81WWWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584234  
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: HC825D010-HM82555940-81WWWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2494.9 lumens  
Efficiency: N/A  
Efficacy: 93.1 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

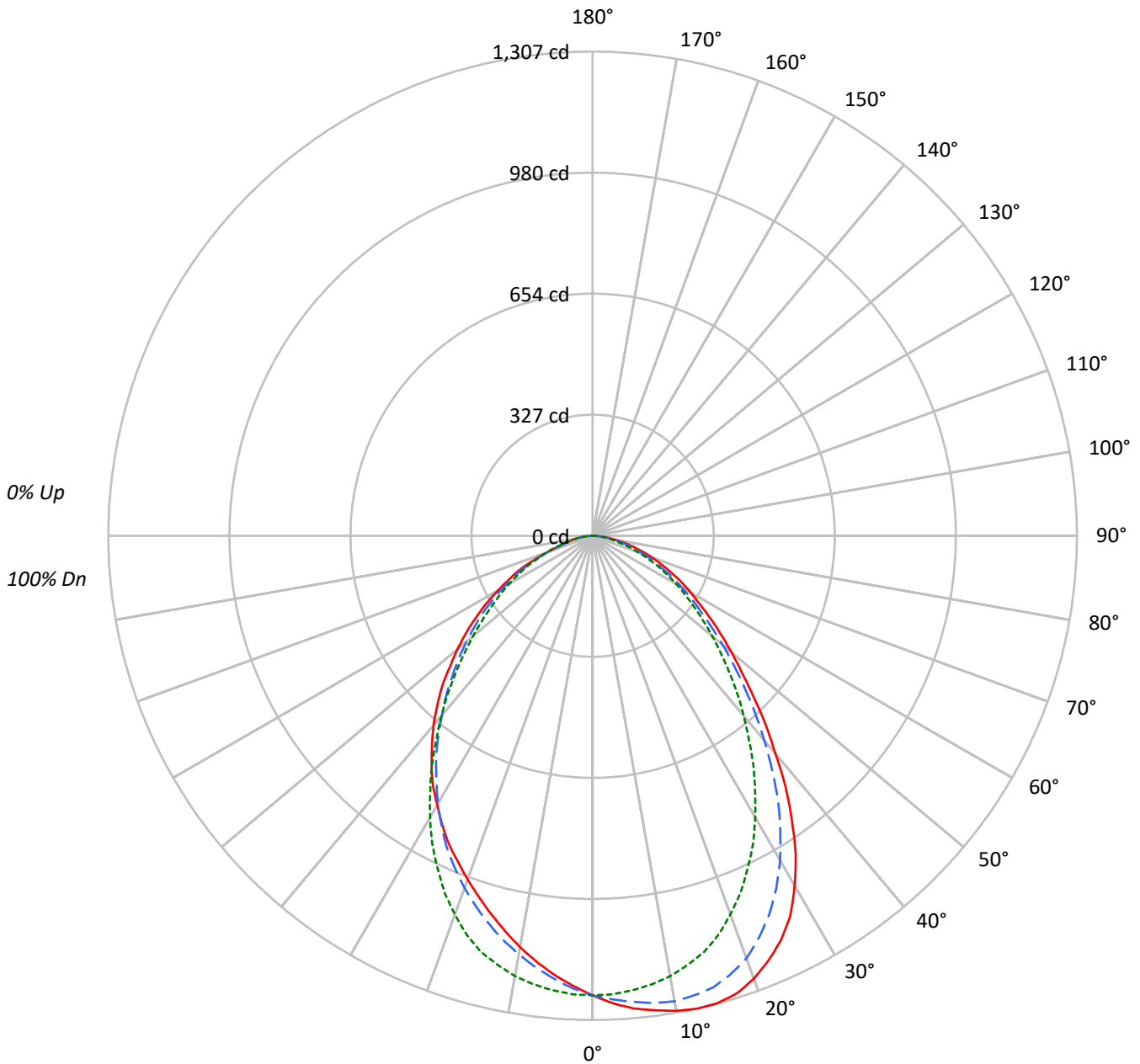
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°  | 38252 | 38252 | 38252 |
| 5°  | 39652 | 38126 | 36817 |
| 10° | 40775 | 37794 | 35311 |
| 15° | 41683 | 37128 | 33753 |
| 20° | 41748 | 35677 | 32382 |
| 25° | 40948 | 33694 | 31238 |
| 30° | 38840 | 31245 | 29867 |
| 35° | 35288 | 28459 | 28523 |
| 40° | 30855 | 25533 | 26882 |
| 45° | 26741 | 22742 | 25053 |
| 50° | 23416 | 20206 | 22821 |
| 55° | 20843 | 17903 | 20650 |
| 60° | 18798 | 16084 | 18144 |
| 65° | 16972 | 14141 | 15819 |
| 70° | 15255 | 11910 | 11757 |
| 75° | 13439 | 9448  | 8817  |
| 80° | 11276 | 7831  | 8453  |
| 85° | 8739  | 6864  | 7501  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 117.0  | 4.7       |
| 10°-20°   | 329.6  | 13.2      |
| 20°-30°   | 471.1  | 18.9      |
| 30°-40°   | 500.5  | 20.1      |
| 40°-50°   | 430.9  | 17.3      |
| 50°-60°   | 322.2  | 12.9      |
| 60°-70°   | 205.5  | 8.2       |
| 70°-80°   | 93.5   | 3.7       |
| 80°-90°   | 24.6   | 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°    | 917.7  | 36.8      |
| 0°-40°    | 1418.2 | 56.8      |
| 0°-60°    | 2171.4 | 87.0      |
| 0°-90°    | 2494.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2494.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1240 | 1240 | 1240 | 1240 | 1240 |      |
| 5°  | 1281 | 1263 | 1232 | 1200 | 1189 | 123  |
| 15° | 1306 | 1262 | 1163 | 1084 | 1057 | 368  |
| 25° | 1204 | 1128 | 990  | 930  | 918  | 551  |
| 35° | 937  | 872  | 756  | 737  | 758  | 584  |
| 45° | 613  | 580  | 522  | 536  | 574  | 477  |
| 55° | 388  | 356  | 333  | 361  | 384  | 349  |
| 65° | 233  | 206  | 194  | 203  | 217  | 232  |
| 75° | 113  | 97   | 79   | 72   | 74   | 120  |
| 85° | 25   | 21   | 19   | 21   | 21   | 30   |
| 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°    | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 |
| 2.5°  | 1263.3 | 1259.8 | 1261.6 | 1259.8 | 1261.6 | 1261.6 | 1258.1 | 1258.1 | 1258.1 | 1258.1 | 1252.9 |
| 5°    | 1281.0 | 1279.3 | 1279.3 | 1277.5 | 1275.8 | 1277.5 | 1275.8 | 1273.9 | 1270.4 | 1268.7 | 1263.3 |
| 7.5°  | 1291.6 | 1291.6 | 1291.6 | 1291.6 | 1289.8 | 1288.1 | 1286.4 | 1282.8 | 1279.3 | 1275.8 | 1272.2 |
| 10°   | 1302.2 | 1303.9 | 1302.2 | 1300.4 | 1298.7 | 1295.1 | 1293.3 | 1289.8 | 1284.5 | 1279.3 | 1275.8 |
| 12.5° | 1307.4 | 1307.4 | 1305.7 | 1305.7 | 1302.2 | 1300.4 | 1295.1 | 1289.8 | 1284.5 | 1279.3 | 1270.4 |
| 15°   | 1305.7 | 1305.7 | 1303.9 | 1302.2 | 1296.8 | 1295.1 | 1291.6 | 1286.4 | 1277.5 | 1270.4 | 1261.6 |
| 17.5° | 1295.1 | 1293.3 | 1289.8 | 1289.8 | 1282.8 | 1281.0 | 1277.5 | 1270.4 | 1261.6 | 1251.0 | 1240.5 |
| 20°   | 1272.2 | 1272.2 | 1270.4 | 1268.7 | 1261.6 | 1256.4 | 1252.9 | 1244.0 | 1236.9 | 1224.6 | 1214.0 |
| 22.5° | 1240.5 | 1244.0 | 1240.5 | 1236.9 | 1228.1 | 1226.4 | 1221.1 | 1210.5 | 1200.0 | 1185.9 | 1173.6 |
| 25°   | 1203.5 | 1201.7 | 1200.0 | 1196.5 | 1189.4 | 1185.9 | 1178.8 | 1168.2 | 1157.6 | 1141.8 | 1127.7 |
| 27.5° | 1155.9 | 1148.9 | 1148.9 | 1141.8 | 1136.6 | 1131.2 | 1127.7 | 1117.2 | 1103.1 | 1090.8 | 1073.1 |
| 30°   | 1090.8 | 1092.5 | 1083.7 | 1081.9 | 1073.1 | 1069.6 | 1062.5 | 1051.9 | 1039.6 | 1025.5 | 1011.5 |
| 32.5° | 1020.2 | 1014.9 | 1014.9 | 1007.9 | 1000.9 | 995.5  | 993.8  | 981.5  | 970.9  | 956.8  | 942.7  |
| 35°   | 937.4  | 937.4  | 932.1  | 930.4  | 923.3  | 919.8  | 914.5  | 907.5  | 895.2  | 882.8  | 872.3  |
| 37.5° | 856.3  | 852.8  | 851.1  | 847.5  | 842.3  | 837.0  | 837.0  | 824.6  | 822.8  | 808.8  | 794.7  |
| 40°   | 766.5  | 770.0  | 766.5  | 761.2  | 759.5  | 756.0  | 754.1  | 747.1  | 741.8  | 729.5  | 720.6  |
| 42.5° | 690.7  | 687.2  | 687.2  | 685.4  | 678.4  | 678.4  | 674.8  | 671.3  | 662.5  | 659.0  | 648.4  |
| 45°   | 613.2  | 616.7  | 611.4  | 613.2  | 606.2  | 606.2  | 606.2  | 599.1  | 592.0  | 586.8  | 579.7  |
| 47.5° | 546.2  | 547.9  | 547.9  | 542.7  | 541.0  | 541.0  | 537.5  | 533.9  | 528.6  | 521.5  | 516.3  |
| 50°   | 488.1  | 489.8  | 486.3  | 484.6  | 481.1  | 479.3  | 479.3  | 472.2  | 468.7  | 461.7  | 458.2  |
| 52.5° | 435.3  | 435.3  | 433.5  | 433.5  | 428.2  | 428.2  | 424.7  | 419.3  | 415.8  | 412.3  | 403.5  |
| 55°   | 387.7  | 387.7  | 385.8  | 384.1  | 384.1  | 378.9  | 377.1  | 371.8  | 368.3  | 361.2  | 355.9  |
| 57.5° | 341.9  | 343.6  | 341.9  | 340.0  | 338.3  | 336.5  | 333.0  | 327.7  | 324.2  | 319.0  | 315.4  |
| 60°   | 304.8  | 304.8  | 303.0  | 301.3  | 297.8  | 296.1  | 294.2  | 290.7  | 285.5  | 281.9  | 276.6  |
| 62.5° | 269.6  | 267.8  | 266.1  | 264.3  | 260.8  | 260.8  | 257.2  | 253.7  | 248.5  | 244.9  | 241.4  |
| 65°   | 232.6  | 232.6  | 230.8  | 230.8  | 229.1  | 225.6  | 223.7  | 222.0  | 215.0  | 213.3  | 206.2  |
| 67.5° | 199.1  | 200.8  | 197.3  | 197.3  | 193.8  | 193.8  | 192.1  | 186.8  | 185.0  | 181.5  | 177.9  |
| 70°   | 169.2  | 169.2  | 169.2  | 167.3  | 163.9  | 162.1  | 160.4  | 156.9  | 155.0  | 151.5  | 148.0  |
| 72.5° | 139.2  | 139.2  | 137.4  | 137.4  | 135.7  | 134.0  | 132.1  | 128.6  | 128.6  | 125.1  | 121.6  |
| 75°   | 112.8  | 112.8  | 111.0  | 109.2  | 107.5  | 107.5  | 105.7  | 104.0  | 100.5  | 98.7   | 96.9   |
| 77.5° | 86.3   | 86.3   | 86.3   | 84.5   | 82.8   | 82.8   | 82.8   | 79.3   | 75.8   | 75.8   | 74.0   |
| 80°   | 63.5   | 63.5   | 61.6   | 61.6   | 59.9   | 59.9   | 59.9   | 58.1   | 56.4   | 54.7   | 52.9   |
| 82.5° | 42.3   | 42.3   | 42.3   | 42.3   | 40.6   | 40.6   | 40.6   | 38.7   | 37.0   | 37.0   | 37.0   |
| 85°   | 24.7   | 24.7   | 24.7   | 24.7   | 22.9   | 22.9   | 22.9   | 22.9   | 22.9   | 21.2   | 21.2   |
| 87.5° | 10.6   | 8.8    | 10.6   | 8.8    | 10.6   | 8.8    | 10.6   | 8.8    | 8.8    | 8.8    | 8.8    |
| 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°    | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 |
| 2.5°  | 1254.6 | 1252.9 | 1251.0 | 1249.3 | 1249.3 | 1247.5 | 1244.0 | 1242.3 | 1240.5 | 1238.7 | 1238.7 |
| 5°    | 1261.6 | 1259.8 | 1256.4 | 1252.9 | 1251.0 | 1247.5 | 1244.0 | 1240.5 | 1236.9 | 1231.7 | 1230.0 |
| 7.5°  | 1266.9 | 1261.6 | 1258.1 | 1251.0 | 1249.3 | 1245.8 | 1240.5 | 1235.2 | 1228.1 | 1221.1 | 1215.8 |
| 10°   | 1266.9 | 1259.8 | 1254.6 | 1245.8 | 1242.3 | 1238.7 | 1231.7 | 1222.9 | 1214.0 | 1207.0 | 1198.2 |
| 12.5° | 1263.3 | 1254.6 | 1245.8 | 1236.9 | 1231.7 | 1226.4 | 1215.8 | 1207.0 | 1196.5 | 1185.9 | 1178.8 |
| 15°   | 1251.0 | 1240.5 | 1230.0 | 1219.4 | 1214.0 | 1207.0 | 1196.5 | 1184.1 | 1173.6 | 1163.0 | 1150.6 |
| 17.5° | 1228.1 | 1217.6 | 1205.2 | 1192.9 | 1185.9 | 1180.5 | 1164.7 | 1155.9 | 1140.1 | 1129.5 | 1118.9 |
| 20°   | 1198.2 | 1185.9 | 1170.0 | 1157.6 | 1148.9 | 1143.6 | 1131.2 | 1115.4 | 1103.1 | 1087.2 | 1076.6 |
| 22.5° | 1159.5 | 1143.6 | 1127.7 | 1115.4 | 1106.6 | 1099.5 | 1083.7 | 1067.8 | 1057.3 | 1043.1 | 1030.8 |
| 25°   | 1113.7 | 1097.7 | 1081.9 | 1064.3 | 1055.4 | 1048.4 | 1034.4 | 1020.2 | 1006.1 | 990.3  | 979.7  |
| 27.5° | 1059.0 | 1041.3 | 1027.3 | 1011.5 | 1002.6 | 992.0  | 976.2  | 962.0  | 948.0  | 937.4  | 923.3  |
| 30°   | 999.1  | 979.7  | 965.6  | 949.7  | 941.0  | 932.1  | 916.2  | 902.2  | 889.8  | 877.5  | 870.4  |
| 32.5° | 926.8  | 912.7  | 898.7  | 882.8  | 875.8  | 870.4  | 854.6  | 840.5  | 826.4  | 815.9  | 810.5  |
| 35°   | 858.1  | 842.3  | 829.9  | 815.9  | 807.0  | 801.8  | 787.6  | 775.3  | 768.3  | 756.0  | 748.9  |
| 37.5° | 785.9  | 773.5  | 759.5  | 745.4  | 740.0  | 734.8  | 724.2  | 711.9  | 701.3  | 692.5  | 689.0  |
| 40°   | 710.2  | 699.6  | 687.2  | 678.4  | 673.1  | 667.8  | 659.0  | 650.2  | 643.2  | 634.3  | 630.8  |
| 42.5° | 637.8  | 630.8  | 620.3  | 609.7  | 604.3  | 602.6  | 592.0  | 585.0  | 581.4  | 577.9  | 574.5  |
| 45°   | 572.7  | 562.1  | 555.0  | 547.9  | 542.7  | 539.2  | 533.9  | 528.6  | 525.0  | 521.5  | 518.1  |
| 47.5° | 509.2  | 500.4  | 493.4  | 488.1  | 482.8  | 481.1  | 477.5  | 472.2  | 468.7  | 468.7  | 468.7  |
| 50°   | 451.1  | 444.0  | 437.0  | 433.5  | 431.7  | 428.2  | 424.7  | 422.9  | 421.2  | 421.2  | 421.2  |
| 52.5° | 400.0  | 392.9  | 387.7  | 384.1  | 384.1  | 380.6  | 377.1  | 375.4  | 375.4  | 375.4  | 375.4  |
| 55°   | 352.5  | 347.1  | 343.6  | 340.0  | 336.5  | 334.8  | 334.8  | 334.8  | 333.0  | 333.0  | 334.8  |
| 57.5° | 310.1  | 306.6  | 301.3  | 297.8  | 296.1  | 296.1  | 294.2  | 292.5  | 294.2  | 296.1  | 297.8  |
| 60°   | 271.4  | 267.8  | 266.1  | 260.8  | 260.8  | 260.8  | 259.0  | 259.0  | 259.0  | 260.8  | 262.6  |
| 62.5° | 236.1  | 234.3  | 230.8  | 229.1  | 227.3  | 227.3  | 225.6  | 225.6  | 225.6  | 225.6  | 227.3  |
| 65°   | 204.4  | 200.8  | 197.3  | 197.3  | 197.3  | 195.6  | 195.6  | 192.1  | 193.8  | 193.8  | 192.1  |
| 67.5° | 174.4  | 170.9  | 169.2  | 167.3  | 165.6  | 165.6  | 163.9  | 162.1  | 160.4  | 160.4  | 160.4  |
| 70°   | 146.3  | 142.7  | 142.7  | 139.2  | 139.2  | 137.4  | 135.7  | 135.7  | 134.0  | 132.1  | 130.4  |
| 72.5° | 118.0  | 116.3  | 114.5  | 112.8  | 112.8  | 112.8  | 111.0  | 109.2  | 107.5  | 105.7  | 102.2  |
| 75°   | 93.4   | 93.4   | 89.9   | 88.1   | 88.1   | 86.3   | 84.5   | 82.8   | 81.1   | 79.3   | 77.6   |
| 77.5° | 72.2   | 70.5   | 67.0   | 65.2   | 65.2   | 65.2   | 63.5   | 61.6   | 59.9   | 58.1   | 56.4   |
| 80°   | 52.9   | 51.1   | 49.3   | 47.6   | 47.6   | 47.6   | 45.8   | 45.8   | 44.1   | 44.1   | 44.1   |
| 82.5° | 35.2   | 35.2   | 33.5   | 33.5   | 33.5   | 33.5   | 31.7   | 31.7   | 31.7   | 31.7   | 31.7   |
| 85°   | 21.2   | 21.2   | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   | 19.4   |
| 87.5° | 8.8    | 8.8    | 8.8    | 8.8    | 8.8    | 8.8    | 8.8    | 8.8    | 8.8    | 8.8    | 8.8    |
| 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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CATALOG NUMBER: HC825D010-HM82555940-81WWWB

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 |
| 2.5°  | 1235.2 | 1235.2 | 1231.7 | 1230.0 | 1228.1 | 1230.0 | 1226.4 | 1224.6 | 1222.9 | 1222.9 | 1221.1 |
| 5°    | 1224.6 | 1222.9 | 1215.8 | 1214.0 | 1212.3 | 1210.5 | 1207.0 | 1203.5 | 1200.0 | 1198.2 | 1196.5 |
| 7.5°  | 1210.5 | 1205.2 | 1198.2 | 1196.5 | 1194.7 | 1189.4 | 1184.1 | 1180.5 | 1175.3 | 1173.6 | 1170.0 |
| 10°   | 1191.1 | 1184.1 | 1178.8 | 1173.6 | 1170.0 | 1164.7 | 1159.5 | 1154.1 | 1147.1 | 1145.3 | 1140.1 |
| 12.5° | 1168.2 | 1159.5 | 1148.9 | 1147.1 | 1141.8 | 1134.7 | 1127.7 | 1122.4 | 1117.2 | 1113.7 | 1108.3 |
| 15°   | 1140.1 | 1131.2 | 1120.7 | 1115.4 | 1110.1 | 1104.8 | 1096.0 | 1088.9 | 1083.7 | 1078.3 | 1073.1 |
| 17.5° | 1106.6 | 1096.0 | 1087.2 | 1081.9 | 1078.3 | 1069.6 | 1062.5 | 1053.7 | 1048.4 | 1043.1 | 1037.9 |
| 20°   | 1066.0 | 1057.3 | 1044.9 | 1039.6 | 1037.9 | 1030.8 | 1022.0 | 1018.4 | 1011.5 | 1006.1 | 1002.6 |
| 22.5° | 1020.2 | 1011.5 | 1000.9 | 997.3  | 990.3  | 986.8  | 978.0  | 974.4  | 970.9  | 965.6  | 963.9  |
| 25°   | 969.1  | 960.3  | 951.6  | 949.7  | 944.5  | 941.0  | 935.6  | 930.4  | 930.4  | 925.1  | 925.1  |
| 27.5° | 916.2  | 907.5  | 900.4  | 896.9  | 895.2  | 891.6  | 886.3  | 884.6  | 882.8  | 881.0  | 881.0  |
| 30°   | 859.9  | 849.3  | 845.8  | 844.0  | 842.3  | 838.8  | 837.0  | 833.4  | 835.2  | 837.0  | 835.2  |
| 32.5° | 799.9  | 796.4  | 789.4  | 785.9  | 787.6  | 785.9  | 782.4  | 785.9  | 784.1  | 787.6  | 789.4  |
| 35°   | 741.8  | 738.3  | 734.8  | 734.8  | 731.2  | 731.2  | 731.2  | 733.1  | 736.6  | 738.3  | 741.8  |
| 37.5° | 685.4  | 680.2  | 678.4  | 676.7  | 678.4  | 678.4  | 678.4  | 681.9  | 685.4  | 689.0  | 694.2  |
| 40°   | 625.5  | 622.0  | 622.0  | 622.0  | 622.0  | 627.3  | 625.5  | 629.1  | 632.6  | 637.8  | 643.2  |
| 42.5° | 569.1  | 569.1  | 571.0  | 571.0  | 571.0  | 571.0  | 574.5  | 579.7  | 585.0  | 590.3  | 595.6  |
| 45°   | 516.3  | 516.3  | 516.3  | 519.8  | 519.8  | 521.5  | 528.6  | 532.1  | 535.6  | 541.0  | 546.2  |
| 47.5° | 466.9  | 466.9  | 468.7  | 470.5  | 472.2  | 475.7  | 479.3  | 484.6  | 489.8  | 493.4  | 498.6  |
| 50°   | 421.2  | 422.9  | 426.4  | 429.9  | 429.9  | 431.7  | 437.0  | 440.5  | 444.0  | 449.3  | 451.1  |
| 52.5° | 377.1  | 380.6  | 384.1  | 385.8  | 387.7  | 391.2  | 392.9  | 398.3  | 400.0  | 405.3  | 407.0  |
| 55°   | 336.5  | 338.3  | 343.6  | 345.4  | 345.4  | 348.9  | 352.5  | 355.9  | 361.2  | 361.2  | 364.8  |
| 57.5° | 299.6  | 301.3  | 304.8  | 306.6  | 304.8  | 310.1  | 311.9  | 315.4  | 317.1  | 320.7  | 322.5  |
| 60°   | 262.6  | 266.1  | 267.8  | 267.8  | 269.6  | 271.4  | 274.9  | 274.9  | 278.4  | 281.9  | 281.9  |
| 62.5° | 227.3  | 229.1  | 230.8  | 232.6  | 234.3  | 232.6  | 237.9  | 237.9  | 241.4  | 243.2  | 246.6  |
| 65°   | 193.8  | 195.6  | 195.6  | 197.3  | 197.3  | 199.1  | 199.1  | 200.8  | 202.7  | 206.2  | 207.9  |
| 67.5° | 160.4  | 160.4  | 160.4  | 162.1  | 160.4  | 162.1  | 162.1  | 163.9  | 163.9  | 167.3  | 169.2  |
| 70°   | 130.4  | 128.6  | 126.9  | 126.9  | 126.9  | 126.9  | 125.1  | 126.9  | 126.9  | 128.6  | 128.6  |
| 72.5° | 100.5  | 98.7   | 96.9   | 95.1   | 95.1   | 93.4   | 91.6   | 93.4   | 93.4   | 95.1   | 95.1   |
| 75°   | 75.8   | 72.2   | 72.2   | 72.2   | 70.5   | 70.5   | 70.5   | 72.2   | 72.2   | 72.2   | 74.0   |
| 77.5° | 56.4   | 56.4   | 54.7   | 54.7   | 54.7   | 56.4   | 56.4   | 58.1   | 58.1   | 58.1   | 58.1   |
| 80°   | 42.3   | 44.1   | 44.1   | 44.1   | 44.1   | 45.8   | 45.8   | 45.8   | 45.8   | 47.6   | 47.6   |
| 82.5° | 31.7   | 31.7   | 31.7   | 31.7   | 33.5   | 33.5   | 33.5   | 33.5   | 33.5   | 33.5   | 33.5   |
| 85°   | 19.4   | 21.2   | 21.2   | 19.4   | 21.2   | 21.2   | 21.2   | 21.2   | 21.2   | 21.2   | 21.2   |
| 87.5° | 8.8    | 8.8    | 8.8    | 8.8    | 8.8    | 8.8    | 8.8    | 8.8    | 8.8    | 8.8    | 8.8    |
| 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: P584234

CATALOG NUMBER: HC825D010-HM82555940-81WWWB

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 |
| 2.5°  | 1219.4 | 1219.4 | 1219.4 | 1219.4 | 1217.6 | 1217.6 | 1217.6 | 1215.8 |
| 5°    | 1192.9 | 1192.9 | 1192.9 | 1189.4 | 1191.1 | 1191.1 | 1187.6 | 1189.4 |
| 7.5°  | 1166.5 | 1164.7 | 1163.0 | 1163.0 | 1161.2 | 1159.5 | 1157.6 | 1159.5 |
| 10°   | 1136.6 | 1131.2 | 1131.2 | 1129.5 | 1129.5 | 1126.0 | 1126.0 | 1127.7 |
| 12.5° | 1103.1 | 1099.5 | 1099.5 | 1097.7 | 1096.0 | 1094.3 | 1092.5 | 1092.5 |
| 15°   | 1069.6 | 1066.0 | 1064.3 | 1062.5 | 1060.8 | 1057.3 | 1059.0 | 1057.3 |
| 17.5° | 1036.1 | 1030.8 | 1030.8 | 1029.0 | 1027.3 | 1023.8 | 1023.8 | 1022.0 |
| 20°   | 997.3  | 995.5  | 992.0  | 993.8  | 992.0  | 988.5  | 986.8  | 986.8  |
| 22.5° | 958.5  | 958.5  | 956.8  | 956.8  | 955.1  | 953.3  | 951.6  | 951.6  |
| 25°   | 921.6  | 919.8  | 921.6  | 921.6  | 916.2  | 916.2  | 916.2  | 918.1  |
| 27.5° | 879.2  | 881.0  | 879.2  | 879.2  | 879.2  | 879.2  | 881.0  | 879.2  |
| 30°   | 837.0  | 837.0  | 837.0  | 838.8  | 842.3  | 840.5  | 840.5  | 838.8  |
| 32.5° | 791.2  | 793.0  | 793.0  | 794.7  | 796.4  | 799.9  | 799.9  | 801.8  |
| 35°   | 745.4  | 748.9  | 750.6  | 748.9  | 754.1  | 754.1  | 757.7  | 757.7  |
| 37.5° | 697.7  | 699.6  | 703.1  | 704.8  | 708.3  | 710.2  | 711.9  | 711.9  |
| 40°   | 646.7  | 653.8  | 655.5  | 657.2  | 662.5  | 662.5  | 664.3  | 667.8  |
| 42.5° | 599.1  | 606.2  | 607.9  | 609.7  | 613.2  | 618.5  | 616.7  | 620.3  |
| 45°   | 553.3  | 558.5  | 560.4  | 562.1  | 567.4  | 569.1  | 569.1  | 574.5  |
| 47.5° | 504.0  | 507.5  | 509.2  | 512.7  | 516.3  | 519.8  | 523.3  | 521.5  |
| 50°   | 454.6  | 459.9  | 463.4  | 465.2  | 470.5  | 472.2  | 474.0  | 475.7  |
| 52.5° | 410.6  | 414.1  | 415.8  | 417.6  | 422.9  | 424.7  | 426.4  | 429.9  |
| 55°   | 368.3  | 370.0  | 373.5  | 371.8  | 377.1  | 378.9  | 380.6  | 384.1  |
| 57.5° | 326.0  | 327.7  | 329.5  | 329.5  | 333.0  | 336.5  | 338.3  | 340.0  |
| 60°   | 285.5  | 289.0  | 290.7  | 290.7  | 290.7  | 294.2  | 294.2  | 294.2  |
| 62.5° | 248.5  | 248.5  | 250.2  | 250.2  | 253.7  | 253.7  | 253.7  | 253.7  |
| 65°   | 209.7  | 211.4  | 213.3  | 213.3  | 216.8  | 215.0  | 218.5  | 216.8  |
| 67.5° | 169.2  | 169.2  | 172.7  | 172.7  | 170.9  | 172.7  | 172.7  | 172.7  |
| 70°   | 128.6  | 128.6  | 130.4  | 130.4  | 130.4  | 130.4  | 130.4  | 130.4  |
| 72.5° | 95.1   | 95.1   | 95.1   | 96.9   | 95.1   | 95.1   | 96.9   | 95.1   |
| 75°   | 74.0   | 74.0   | 74.0   | 74.0   | 74.0   | 74.0   | 74.0   | 74.0   |
| 77.5° | 58.1   | 58.1   | 59.9   | 59.9   | 59.9   | 59.9   | 59.9   | 59.9   |
| 80°   | 47.6   | 47.6   | 47.6   | 47.6   | 49.3   | 47.6   | 47.6   | 47.6   |
| 82.5° | 35.2   | 33.5   | 35.2   | 33.5   | 35.2   | 35.2   | 35.2   | 35.2   |
| 85°   | 21.2   | 21.2   | 21.2   | 21.2   | 21.2   | 21.2   | 21.2   | 21.2   |
| 87.5° | 8.8    | 8.8    | 8.8    | 8.8    | 8.8    | 8.8    | 8.8    | 8.8    |
| 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)