

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



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: P584022

Luminaire Tested: **HCC8W20D010SL-HM80520840-81RWWH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584022  
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: HCC8W20D010SL-HM80520840-81RWWH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

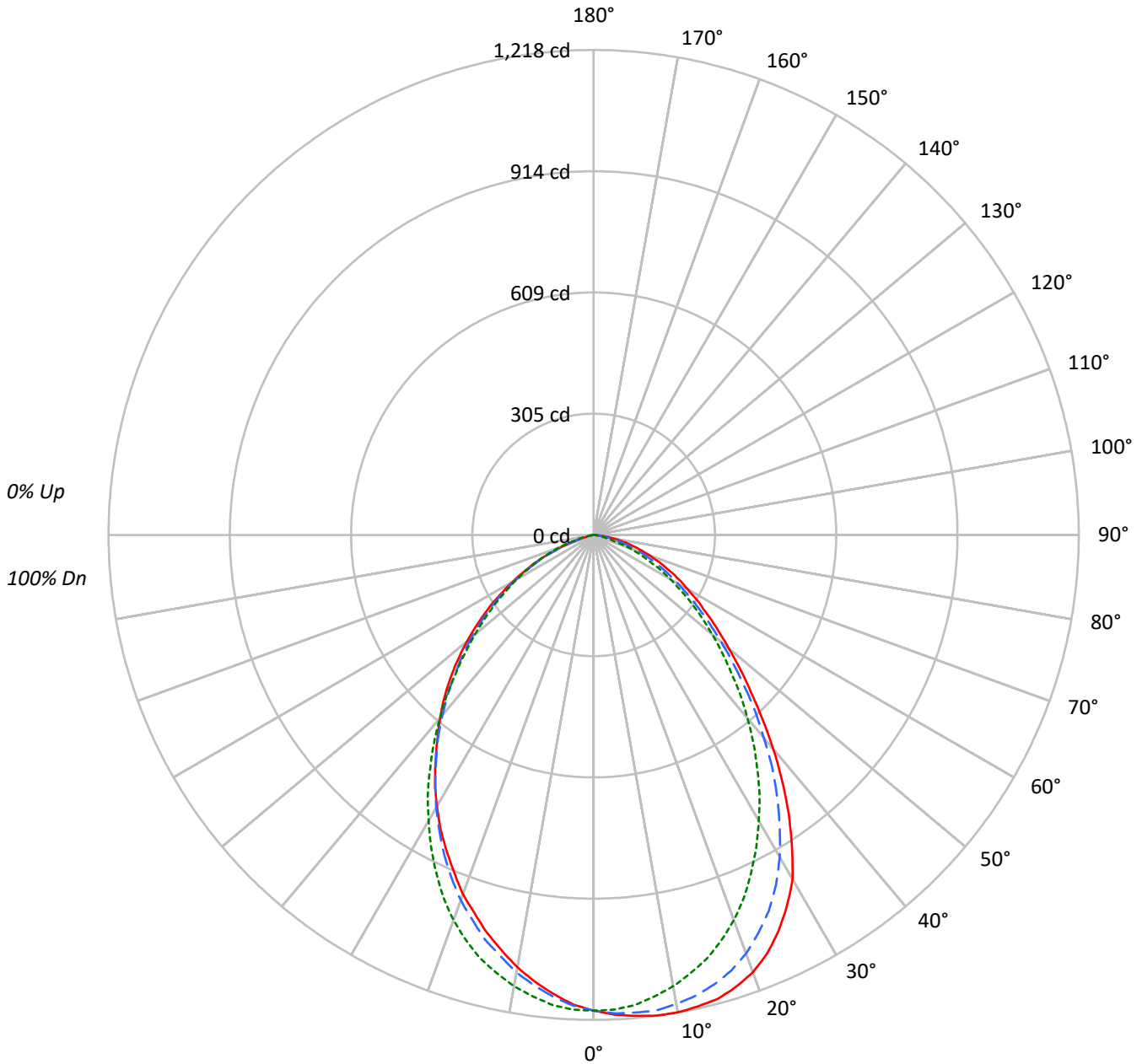
Lumens per Lamp: N/A  
Luminaire Lumens: 2239.8 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P584022  
CATALOG NUMBER: HCC8W20D010SL-HM80520840-81RWWH

### Luminous Intensity Polar Plot



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

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

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 36843 | 36843 | 36843 |
| 5°  | 37535 | 36684 | 35829 |
| 10° | 38122 | 36040 | 34521 |
| 15° | 38504 | 35145 | 33025 |
| 20° | 38358 | 33787 | 31503 |
| 25° | 37345 | 31840 | 29744 |
| 30° | 35568 | 29514 | 28012 |
| 35° | 32118 | 26938 | 26020 |
| 40° | 28218 | 24177 | 24112 |
| 45° | 24356 | 21251 | 22171 |
| 50° | 21199 | 18637 | 19880 |
| 55° | 18795 | 16193 | 17322 |
| 60° | 16775 | 13673 | 14376 |
| 65° | 15118 | 11098 | 11339 |
| 70° | 13425 | 8322  | 6717  |
| 75° | 11581 | 4813  | 2883  |
| 80° | 8914  | 1723  | 852   |
| 85° | 5732  | 601   | 601   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 112.2  | 5.0       |
| 10°-20°   | 312.2  | 13.9      |
| 20°-30°   | 441.6  | 19.7      |
| 30°-40°   | 465.3  | 20.8      |
| 40°-50°   | 395.5  | 17.7      |
| 50°-60°   | 284.8  | 12.7      |
| 60°-70°   | 164.3  | 7.3       |
| 70°-80°   | 56.2   | 2.5       |
| 80°-90°   | 7.7    | 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°    | 866.0  | 38.7      |
| 0°-40°    | 1331.3 | 59.4      |
| 0°-60°    | 2011.6 | 89.8      |
| 0°-90°    | 2239.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2239.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1195 | 1195 | 1195 | 1195 | 1195 |      |
| 5°  | 1213 | 1204 | 1185 | 1164 | 1158 | 116  |
| 15° | 1206 | 1169 | 1101 | 1052 | 1034 | 340  |
| 25° | 1098 | 1041 | 936  | 887  | 874  | 503  |
| 35° | 853  | 803  | 716  | 690  | 691  | 531  |
| 45° | 558  | 533  | 487  | 490  | 508  | 434  |
| 55° | 350  | 322  | 301  | 312  | 322  | 315  |
| 65° | 207  | 178  | 152  | 149  | 155  | 206  |
| 75° | 97   | 73   | 40   | 26   | 24   | 102  |
| 85° | 16   | 10   | 2    | 2    | 2    | 22   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1194.8 | 1194.8 | 1194.8 | 1194.8 | 1194.8 | 1194.8 | 1194.8 | 1194.8 | 1194.8 | 1194.8 | 1194.8 |
| 2.5°  | 1206.1 | 1207.8 | 1206.1 | 1206.1 | 1204.5 | 1202.8 | 1201.3 | 1199.6 | 1196.4 | 1193.1 | 1193.1 |
| 5°    | 1212.6 | 1215.8 | 1212.6 | 1212.6 | 1207.8 | 1204.5 | 1201.3 | 1196.4 | 1189.9 | 1185.1 | 1185.1 |
| 7.5°  | 1217.5 | 1217.5 | 1217.5 | 1212.6 | 1209.3 | 1204.5 | 1196.4 | 1188.3 | 1180.2 | 1172.1 | 1168.9 |
| 10°   | 1217.5 | 1217.5 | 1215.8 | 1209.3 | 1206.1 | 1196.4 | 1188.3 | 1176.9 | 1165.6 | 1154.3 | 1151.0 |
| 12.5° | 1212.6 | 1214.2 | 1211.0 | 1204.5 | 1196.4 | 1185.1 | 1173.7 | 1159.2 | 1146.2 | 1133.3 | 1126.8 |
| 15°   | 1206.1 | 1204.5 | 1201.3 | 1193.1 | 1183.4 | 1168.9 | 1157.5 | 1141.3 | 1123.5 | 1107.3 | 1100.9 |
| 17.5° | 1189.9 | 1189.9 | 1185.1 | 1176.9 | 1164.0 | 1147.8 | 1130.0 | 1112.1 | 1092.8 | 1074.9 | 1066.9 |
| 20°   | 1168.9 | 1168.9 | 1162.4 | 1152.7 | 1139.7 | 1118.6 | 1099.3 | 1078.2 | 1055.5 | 1037.7 | 1029.6 |
| 22.5° | 1138.1 | 1139.7 | 1131.6 | 1120.3 | 1105.8 | 1081.4 | 1062.0 | 1036.1 | 1013.4 | 992.4  | 985.9  |
| 25°   | 1097.6 | 1100.9 | 1092.8 | 1081.4 | 1062.0 | 1041.0 | 1016.6 | 992.4  | 966.5  | 945.5  | 935.8  |
| 27.5° | 1050.7 | 1052.3 | 1044.2 | 1032.8 | 1013.4 | 990.8  | 966.5  | 940.6  | 916.3  | 893.6  | 883.9  |
| 30°   | 998.9  | 992.4  | 989.2  | 974.6  | 953.5  | 934.1  | 906.6  | 885.6  | 859.7  | 840.2  | 828.9  |
| 32.5° | 926.0  | 929.3  | 919.6  | 908.2  | 892.1  | 869.4  | 846.7  | 822.4  | 798.1  | 783.5  | 775.5  |
| 35°   | 853.2  | 856.4  | 851.5  | 840.2  | 822.4  | 802.9  | 780.4  | 762.5  | 741.5  | 723.6  | 715.6  |
| 37.5° | 777.0  | 777.0  | 773.9  | 767.4  | 754.5  | 736.6  | 713.9  | 696.1  | 678.3  | 663.8  | 658.8  |
| 40°   | 701.0  | 697.7  | 696.1  | 691.2  | 680.0  | 663.8  | 649.2  | 634.6  | 616.8  | 607.1  | 600.6  |
| 42.5° | 626.6  | 626.6  | 623.3  | 618.4  | 607.1  | 599.0  | 584.4  | 568.2  | 555.3  | 545.6  | 545.6  |
| 45°   | 558.5  | 560.1  | 555.3  | 552.0  | 545.6  | 532.6  | 519.7  | 508.4  | 497.0  | 490.5  | 487.3  |
| 47.5° | 498.7  | 498.7  | 493.7  | 490.5  | 484.0  | 472.7  | 461.3  | 451.6  | 443.6  | 438.8  | 437.1  |
| 50°   | 441.9  | 441.9  | 441.9  | 433.9  | 425.8  | 417.7  | 409.6  | 398.2  | 393.4  | 390.2  | 388.5  |
| 52.5° | 393.4  | 391.8  | 391.8  | 385.3  | 377.2  | 367.5  | 359.4  | 349.6  | 344.8  | 341.6  | 343.3  |
| 55°   | 349.6  | 349.6  | 348.1  | 339.9  | 331.9  | 322.2  | 314.1  | 306.0  | 302.7  | 299.5  | 301.2  |
| 56°   | 331.9  | 331.9  | 330.3  | 323.7  | 314.1  | 306.0  | 296.2  | 288.2  | 283.3  | 285.0  | 285.0  |
| 57°   | 318.9  | 315.7  | 315.7  | 307.6  | 299.5  | 288.2  | 280.0  | 272.0  | 268.8  | 267.1  | 267.1  |
| 58°   | 302.7  | 301.2  | 299.5  | 291.4  | 283.3  | 273.6  | 265.5  | 257.4  | 252.6  | 252.6  | 250.9  |
| 59°   | 286.5  | 286.5  | 283.3  | 276.8  | 268.8  | 259.0  | 250.9  | 242.8  | 237.9  | 236.4  | 236.4  |
| 60°   | 272.0  | 273.6  | 268.8  | 262.3  | 255.8  | 244.4  | 234.7  | 228.2  | 223.4  | 221.7  | 221.7  |
| 61°   | 259.0  | 259.0  | 255.8  | 247.7  | 239.6  | 231.6  | 221.7  | 213.7  | 210.5  | 207.2  | 207.2  |
| 62°   | 247.7  | 244.4  | 242.8  | 234.7  | 226.7  | 216.9  | 208.9  | 200.7  | 195.9  | 192.7  | 194.3  |
| 63°   | 233.1  | 231.6  | 228.2  | 221.7  | 213.7  | 204.0  | 194.3  | 187.8  | 183.0  | 178.1  | 179.7  |
| 64°   | 221.7  | 220.2  | 215.4  | 208.9  | 200.7  | 191.0  | 181.3  | 174.8  | 171.6  | 166.8  | 165.1  |
| 65°   | 207.2  | 205.5  | 204.0  | 195.9  | 187.8  | 178.1  | 170.0  | 163.5  | 158.6  | 155.4  | 152.1  |
| 66°   | 194.3  | 195.9  | 192.7  | 186.2  | 176.5  | 168.3  | 157.1  | 150.6  | 147.3  | 142.4  | 139.2  |
| 67°   | 183.0  | 183.0  | 179.7  | 173.3  | 163.5  | 155.4  | 147.3  | 139.2  | 134.4  | 129.5  | 127.9  |
| 67.5° | 176.5  | 176.5  | 173.3  | 165.1  | 158.6  | 148.9  | 140.9  | 134.4  | 127.9  | 124.7  | 121.4  |
| 68°   | 170.0  | 170.0  | 168.3  | 161.9  | 153.8  | 144.1  | 136.0  | 127.9  | 121.4  | 116.5  | 114.9  |
| 69°   | 158.6  | 160.3  | 157.1  | 150.6  | 142.4  | 132.7  | 124.7  | 118.2  | 111.7  | 106.9  | 103.7  |
| 70°   | 148.9  | 147.3  | 144.1  | 137.6  | 129.5  | 123.0  | 114.9  | 106.9  | 100.4  | 93.9   | 92.3   |
| 71°   | 136.0  | 136.0  | 132.7  | 127.9  | 119.9  | 111.7  | 103.7  | 97.2   | 90.7   | 82.6   | 81.0   |
| 72°   | 126.2  | 126.2  | 123.0  | 116.5  | 110.0  | 102.0  | 93.9   | 85.8   | 81.0   | 72.8   | 69.6   |
| 72.5° | 119.9  | 121.4  | 118.2  | 111.7  | 105.2  | 95.5   | 89.0   | 82.6   | 74.5   | 68.0   | 64.8   |
| 73°   | 116.5  | 114.9  | 113.4  | 106.9  | 98.7   | 92.3   | 84.2   | 77.7   | 69.6   | 63.1   | 59.9   |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 75°  | 85°  | 90°  |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 77.5° | 72.8 | 72.8 | 71.3 | 64.8 | 58.3 | 51.8 | 45.4 | 38.9 | 32.4 | 25.9 | 22.7 |
| 80°   | 50.2 | 51.8 | 48.6 | 45.4 | 40.4 | 34.0 | 27.5 | 22.7 | 16.2 | 13.0 | 9.7  |
| 82.5° | 32.4 | 32.4 | 30.7 | 27.5 | 24.2 | 19.4 | 16.2 | 11.3 | 8.0  | 6.5  | 4.8  |
| 85°   | 16.2 | 17.8 | 16.2 | 14.5 | 11.3 | 9.7  | 8.0  | 4.8  | 3.2  | 1.7  | 1.7  |
| 87.5° | 6.5  | 6.5  | 6.5  | 4.8  | 4.8  | 3.2  | 1.7  | 1.7  | 1.7  | 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°    | 1194.8 | 1194.8 | 1194.8 | 1194.8 | 1194.8 | 1194.8 | 1194.8 | 1194.8 | 1194.8 | 1194.8 |
| 2.5°  | 1189.9 | 1189.9 | 1186.6 | 1185.1 | 1183.4 | 1181.8 | 1180.2 | 1178.6 | 1178.6 | 1180.2 |
| 5°    | 1180.2 | 1176.9 | 1170.5 | 1168.9 | 1164.0 | 1162.4 | 1159.2 | 1157.5 | 1159.2 | 1157.5 |
| 7.5°  | 1165.6 | 1159.2 | 1151.0 | 1147.8 | 1141.3 | 1138.1 | 1133.3 | 1133.3 | 1130.0 | 1131.6 |
| 10°   | 1146.2 | 1136.5 | 1126.8 | 1120.3 | 1115.5 | 1110.6 | 1107.3 | 1104.1 | 1102.5 | 1102.5 |
| 12.5° | 1122.0 | 1110.6 | 1100.9 | 1091.1 | 1083.1 | 1079.9 | 1073.4 | 1073.4 | 1070.1 | 1068.5 |
| 15°   | 1094.4 | 1079.9 | 1068.5 | 1058.7 | 1052.3 | 1045.8 | 1041.0 | 1037.7 | 1034.5 | 1034.5 |
| 17.5° | 1058.7 | 1045.8 | 1034.5 | 1023.1 | 1013.4 | 1008.6 | 1003.8 | 998.9  | 998.9  | 995.6  |
| 20°   | 1019.9 | 1005.3 | 995.6  | 984.3  | 976.2  | 968.1  | 961.7  | 961.7  | 958.4  | 960.0  |
| 22.5° | 976.2  | 958.4  | 948.7  | 940.6  | 932.5  | 926.0  | 919.6  | 919.6  | 917.9  | 916.3  |
| 25°   | 927.6  | 913.1  | 901.7  | 892.1  | 887.2  | 880.7  | 879.1  | 875.9  | 874.2  | 874.2  |
| 27.5° | 875.9  | 864.5  | 850.0  | 845.1  | 838.6  | 835.3  | 835.3  | 833.8  | 830.5  | 832.1  |
| 30°   | 820.8  | 807.9  | 799.7  | 796.5  | 790.0  | 790.0  | 788.4  | 785.2  | 785.2  | 786.7  |
| 32.5° | 767.4  | 754.5  | 748.0  | 746.3  | 739.8  | 739.8  | 738.3  | 739.8  | 739.8  | 741.5  |
| 35°   | 709.1  | 697.7  | 696.1  | 691.2  | 689.7  | 689.7  | 689.7  | 692.9  | 696.1  | 691.2  |
| 37.5° | 654.0  | 646.0  | 641.1  | 639.5  | 641.1  | 641.1  | 642.7  | 647.6  | 646.0  | 644.3  |
| 40°   | 597.4  | 590.9  | 587.7  | 587.7  | 590.9  | 594.2  | 594.2  | 599.0  | 600.6  | 599.0  |
| 42.5° | 540.8  | 535.9  | 535.9  | 537.5  | 540.8  | 542.3  | 547.1  | 552.0  | 553.6  | 555.3  |
| 45°   | 487.3  | 487.3  | 487.3  | 488.9  | 490.5  | 493.7  | 500.2  | 505.1  | 506.7  | 508.4  |
| 47.5° | 435.4  | 433.9  | 438.8  | 440.3  | 445.3  | 446.8  | 451.6  | 458.1  | 459.8  | 461.3  |
| 50°   | 386.9  | 390.2  | 391.8  | 396.7  | 399.9  | 399.9  | 406.4  | 409.6  | 414.4  | 414.4  |
| 52.5° | 341.6  | 346.4  | 348.1  | 352.9  | 354.6  | 356.1  | 359.4  | 364.3  | 367.5  | 367.5  |
| 55°   | 301.2  | 302.7  | 306.0  | 307.6  | 312.4  | 314.1  | 317.4  | 318.9  | 323.7  | 322.2  |
| 56°   | 283.3  | 286.5  | 288.2  | 291.4  | 294.7  | 296.2  | 299.5  | 301.2  | 304.4  | 306.0  |
| 57°   | 267.1  | 268.8  | 273.6  | 275.2  | 278.5  | 278.5  | 280.0  | 285.0  | 285.0  | 286.5  |
| 58°   | 250.9  | 254.1  | 255.8  | 257.4  | 260.6  | 262.3  | 265.5  | 267.1  | 268.8  | 267.1  |
| 59°   | 236.4  | 237.9  | 239.6  | 239.6  | 242.8  | 242.8  | 247.7  | 250.9  | 252.6  | 252.6  |
| 60°   | 221.7  | 221.7  | 223.4  | 225.1  | 228.2  | 229.9  | 229.9  | 233.1  | 233.1  | 233.1  |
| 61°   | 207.2  | 207.2  | 208.9  | 210.5  | 212.1  | 212.1  | 215.4  | 215.4  | 216.9  | 218.6  |
| 62°   | 194.3  | 192.7  | 192.7  | 194.3  | 194.3  | 197.5  | 199.2  | 200.7  | 202.4  | 200.7  |
| 63°   | 179.7  | 178.1  | 178.1  | 178.1  | 178.1  | 181.3  | 181.3  | 183.0  | 186.2  | 184.5  |
| 64°   | 163.5  | 163.5  | 163.5  | 163.5  | 165.1  | 165.1  | 168.3  | 170.0  | 171.6  | 173.3  |
| 65°   | 152.1  | 148.9  | 147.3  | 147.3  | 148.9  | 150.6  | 152.1  | 153.8  | 155.4  | 155.4  |
| 66°   | 139.2  | 136.0  | 134.4  | 134.4  | 134.4  | 134.4  | 137.6  | 137.6  | 140.9  | 140.9  |
| 67°   | 124.7  | 121.4  | 119.9  | 118.2  | 118.2  | 118.2  | 123.0  | 121.4  | 121.4  | 121.4  |
| 67.5° | 119.9  | 114.9  | 113.4  | 111.7  | 110.0  | 113.4  | 111.7  | 113.4  | 113.4  | 111.7  |
| 68°   | 113.4  | 110.0  | 106.9  | 103.7  | 103.7  | 103.7  | 105.2  | 106.9  | 105.2  | 103.7  |
| 69°   | 100.4  | 98.7   | 93.9   | 90.7   | 89.0   | 90.7   | 89.0   | 90.7   | 89.0   | 90.7   |
| 70°   | 89.0   | 84.2   | 79.3   | 77.7   | 76.1   | 76.1   | 76.1   | 74.5   | 76.1   | 74.5   |
| 71°   | 77.7   | 72.8   | 68.0   | 64.8   | 63.1   | 63.1   | 61.5   | 63.1   | 61.5   | 63.1   |
| 72°   | 66.4   | 61.5   | 55.1   | 51.8   | 51.8   | 51.8   | 51.8   | 50.2   | 51.8   | 50.2   |
| 72.5° | 61.5   | 55.1   | 50.2   | 46.9   | 45.4   | 45.4   | 45.4   | 45.4   | 43.7   | 45.4   |
| 73°   | 56.6   | 50.2   | 43.7   | 42.1   | 42.1   | 42.1   | 40.4   | 38.9   | 40.4   | 40.4   |





TEST NUMBER: P584022  
CATALOG NUMBER: HCC8W20D010SL-HM80520840-81RWWH

**CANDELA DISTRIBUTION (continued):**

|       | 95°  | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|------|------|------|------|------|------|------|------|------|------|
| 77.5° | 19.4 | 14.5 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 11.3 | 11.3 |
| 80°   | 8.0  | 6.5  | 4.8  | 4.8  | 4.8  | 4.8  | 4.8  | 4.8  | 4.8  | 4.8  |
| 82.5° | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  |
| 85°   | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  |
| 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°

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|     |       |       |       |      |      |      |      |      |      |      |      |
|-----|-------|-------|-------|------|------|------|------|------|------|------|------|
| 74° | 105.2 | 105.2 | 102.0 | 97.2 | 89.0 | 81.0 | 74.5 | 68.0 | 59.9 | 51.8 | 48.6 |
| 75° | 97.2  | 95.5  | 92.3  | 87.5 | 81.0 | 72.8 | 66.4 | 58.3 | 51.8 | 43.7 | 40.4 |

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|     |      |      |      |      |      |      |      |      |      |      |
|-----|------|------|------|------|------|------|------|------|------|------|
| 74° | 46.9 | 38.9 | 35.6 | 32.4 | 32.4 | 32.4 | 30.7 | 30.7 | 30.7 | 32.4 |
| 75° | 37.2 | 30.7 | 27.5 | 24.2 | 25.9 | 24.2 | 25.9 | 24.2 | 24.2 | 24.2 |

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(END OF REPORT)