

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: P585246

Luminaire Tested: **HCC8S80D010BZ-HM86080840-81RWWH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585246  
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: HCC8S80D010BZ-HM86080840-81RWWH  
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**

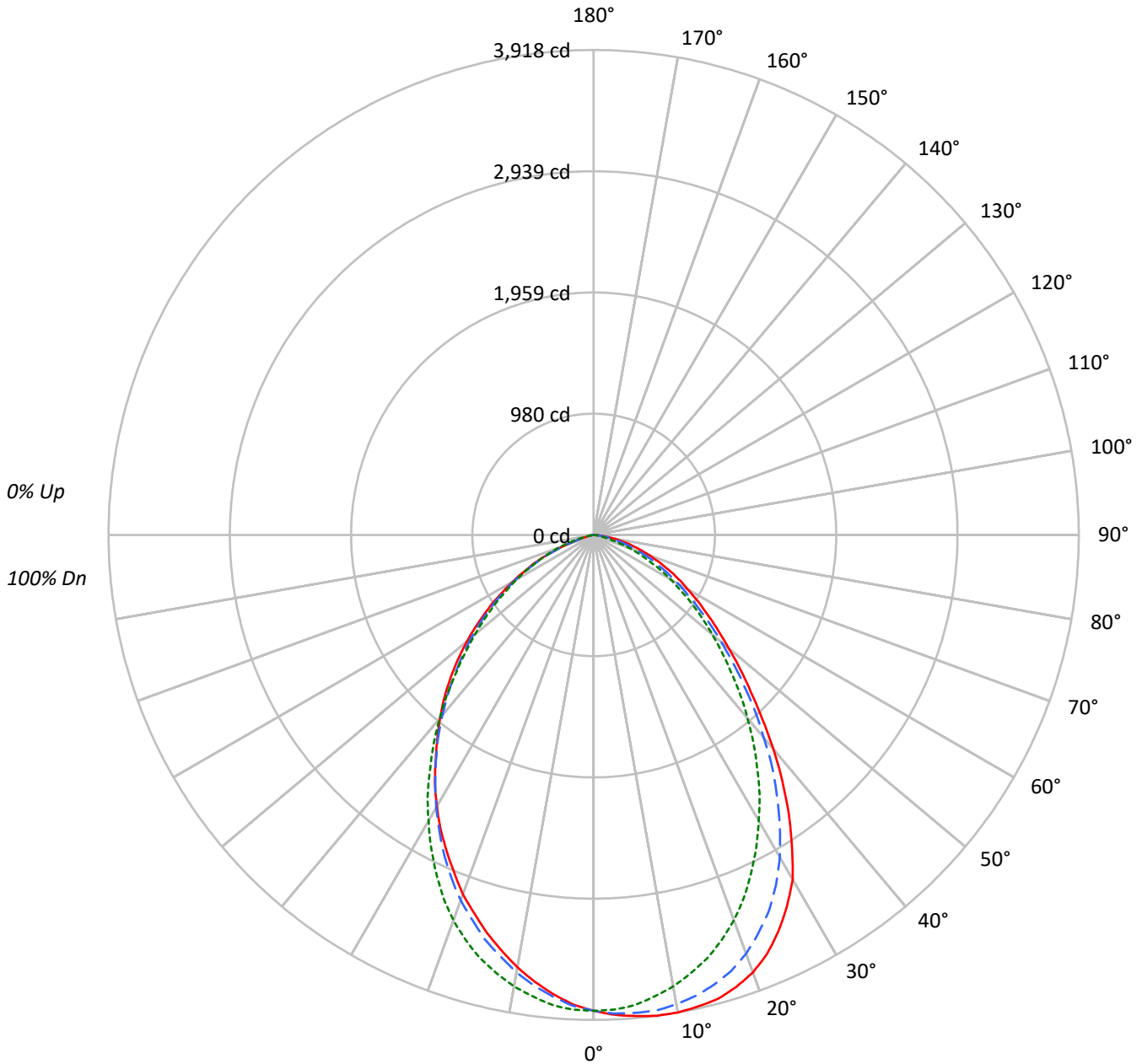
Lumens per Lamp: N/A  
Luminaire Lumens: 7207.4 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P585246  
CATALOG NUMBER: HCC8S80D010BZ-HM86080840-81RWWH

### Luminous Intensity Polar Plot



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



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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 |    |    | 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°  | 118553 | 118553 | 118553 |
| 5°  | 120780 | 118040 | 115298 |
| 10° | 122665 | 115980 | 111083 |
| 15° | 123897 | 113088 | 106269 |
| 20° | 123428 | 108727 | 101376 |
| 25° | 120173 | 102447 | 95717  |
| 30° | 114447 | 94974  | 90153  |
| 35° | 103348 | 86680  | 83739  |
| 40° | 90801  | 77799  | 77589  |
| 45° | 78379  | 68383  | 71336  |
| 50° | 68227  | 59976  | 63977  |
| 55° | 60498  | 52089  | 55735  |
| 60° | 53976  | 44022  | 46261  |
| 65° | 48653  | 35731  | 36490  |
| 70° | 43213  | 26768  | 21602  |
| 75° | 37244  | 15512  | 9305   |
| 80° | 28679  | 5558   | 2770   |
| 85° | 18433  | 1840   | 1840   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 360.9  | 5.0       |
| 10°-20°   | 1004.7 | 13.9      |
| 20°-30°   | 1421.0 | 19.7      |
| 30°-40°   | 1497.4 | 20.8      |
| 40°-50°   | 1272.6 | 17.7      |
| 50°-60°   | 916.4  | 12.7      |
| 60°-70°   | 528.6  | 7.3       |
| 70°-80°   | 180.9  | 2.5       |
| 80°-90°   | 24.9   | 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°    | 2786.6 | 38.7      |
| 0°-40°    | 4284.0 | 59.4      |
| 0°-60°    | 6473.0 | 89.8      |
| 0°-90°    | 7207.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7207.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 3845 | 3845 | 3845 | 3845 | 3845 |      |
| 5°  | 3902 | 3876 | 3813 | 3746 | 3725 | 373  |
| 15° | 3881 | 3761 | 3542 | 3386 | 3329 | 1093 |
| 25° | 3532 | 3350 | 3011 | 2855 | 2813 | 1620 |
| 35° | 2745 | 2584 | 2303 | 2219 | 2224 | 1710 |
| 45° | 1797 | 1714 | 1568 | 1578 | 1636 | 1396 |
| 55° | 1125 | 1037 | 969  | 1005 | 1037 | 1013 |
| 65° | 667  | 573  | 490  | 479  | 500  | 663  |
| 75° | 313  | 234  | 130  | 83   | 78   | 330  |
| 85° | 52   | 31   | 5    | 5    | 5    | 70   |
| 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°    | 3844.6 | 3844.6 | 3844.6 | 3844.6 | 3844.6 | 3844.6 | 3844.6 | 3844.6 | 3844.6 | 3844.6 | 3844.6 |
| 2.5°  | 3881.0 | 3886.2 | 3881.0 | 3881.0 | 3875.9 | 3870.7 | 3865.4 | 3860.2 | 3849.7 | 3839.4 | 3839.4 |
| 5°    | 3901.9 | 3912.3 | 3901.9 | 3901.9 | 3886.2 | 3875.9 | 3865.4 | 3849.7 | 3828.9 | 3813.4 | 3813.4 |
| 7.5°  | 3917.5 | 3917.5 | 3917.5 | 3901.9 | 3891.5 | 3875.9 | 3849.7 | 3823.7 | 3797.7 | 3771.6 | 3761.3 |
| 10°   | 3917.5 | 3917.5 | 3912.3 | 3891.5 | 3881.0 | 3849.7 | 3823.7 | 3787.3 | 3750.8 | 3714.3 | 3704.0 |
| 12.5° | 3901.9 | 3907.1 | 3896.7 | 3875.9 | 3849.7 | 3813.4 | 3776.9 | 3730.0 | 3688.3 | 3646.7 | 3625.7 |
| 15°   | 3881.0 | 3875.9 | 3865.4 | 3839.4 | 3808.1 | 3761.3 | 3724.8 | 3672.7 | 3615.4 | 3563.3 | 3542.4 |
| 17.5° | 3828.9 | 3828.9 | 3813.4 | 3787.3 | 3745.6 | 3693.5 | 3636.2 | 3578.9 | 3516.3 | 3459.0 | 3433.0 |
| 20°   | 3761.3 | 3761.3 | 3740.4 | 3709.1 | 3667.5 | 3599.7 | 3537.3 | 3469.5 | 3396.6 | 3339.3 | 3313.3 |
| 22.5° | 3662.2 | 3667.5 | 3641.4 | 3604.9 | 3558.1 | 3480.0 | 3417.4 | 3334.1 | 3261.1 | 3193.4 | 3172.6 |
| 25°   | 3532.0 | 3542.4 | 3516.3 | 3480.0 | 3417.4 | 3349.7 | 3271.5 | 3193.4 | 3110.1 | 3042.3 | 3011.0 |
| 27.5° | 3380.9 | 3386.2 | 3360.1 | 3323.6 | 3261.1 | 3188.2 | 3110.1 | 3026.7 | 2948.6 | 2875.6 | 2844.3 |
| 30°   | 3214.2 | 3193.4 | 3183.0 | 3136.1 | 3068.3 | 3005.9 | 2917.3 | 2849.6 | 2766.2 | 2703.7 | 2667.3 |
| 32.5° | 2979.9 | 2990.2 | 2958.9 | 2922.6 | 2870.4 | 2797.5 | 2724.6 | 2646.4 | 2568.2 | 2521.4 | 2495.4 |
| 35°   | 2745.4 | 2755.9 | 2740.2 | 2703.7 | 2646.4 | 2583.9 | 2510.9 | 2453.6 | 2386.0 | 2328.7 | 2302.6 |
| 37.5° | 2500.6 | 2500.6 | 2490.1 | 2469.3 | 2427.6 | 2370.3 | 2297.4 | 2240.1 | 2182.8 | 2135.9 | 2120.2 |
| 40°   | 2255.7 | 2245.3 | 2240.1 | 2224.5 | 2188.0 | 2135.9 | 2089.0 | 2042.1 | 1984.8 | 1953.5 | 1932.7 |
| 42.5° | 2016.1 | 2016.1 | 2005.6 | 1990.0 | 1953.5 | 1927.5 | 1880.6 | 1828.6 | 1786.8 | 1755.6 | 1755.6 |
| 45°   | 1797.3 | 1802.5 | 1786.8 | 1776.5 | 1755.6 | 1713.9 | 1672.2 | 1635.8 | 1599.3 | 1578.5 | 1568.1 |
| 47.5° | 1604.6 | 1604.6 | 1588.9 | 1578.5 | 1557.6 | 1521.2 | 1484.7 | 1453.4 | 1427.4 | 1411.8 | 1406.6 |
| 50°   | 1422.2 | 1422.2 | 1422.2 | 1396.1 | 1370.1 | 1344.0 | 1318.0 | 1281.5 | 1265.9 | 1255.5 | 1250.2 |
| 52.5° | 1265.9 | 1260.7 | 1260.7 | 1239.9 | 1213.9 | 1182.6 | 1156.5 | 1125.3 | 1109.6 | 1099.2 | 1104.5 |
| 55°   | 1125.3 | 1125.3 | 1120.0 | 1094.0 | 1068.0 | 1036.7 | 1010.6 | 984.6  | 974.1  | 963.8  | 968.9  |
| 56°   | 1068.0 | 1068.0 | 1062.7 | 1041.9 | 1010.6 | 984.6  | 953.3  | 927.3  | 911.6  | 916.8  | 916.8  |
| 57°   | 1026.2 | 1015.9 | 1015.9 | 989.8  | 963.8  | 927.3  | 901.3  | 875.2  | 864.8  | 859.5  | 859.5  |
| 58°   | 974.1  | 968.9  | 963.8  | 937.8  | 911.6  | 880.5  | 854.3  | 828.3  | 812.7  | 812.7  | 807.4  |
| 59°   | 922.1  | 922.1  | 911.6  | 890.8  | 864.8  | 833.5  | 807.4  | 781.4  | 765.8  | 760.6  | 760.6  |
| 60°   | 875.2  | 880.5  | 864.8  | 844.0  | 823.1  | 786.6  | 755.4  | 734.6  | 718.9  | 713.8  | 713.8  |
| 61°   | 833.5  | 833.5  | 823.1  | 797.1  | 770.9  | 744.9  | 713.8  | 687.6  | 677.3  | 666.8  | 666.8  |
| 62°   | 797.1  | 786.6  | 781.4  | 755.4  | 729.3  | 698.1  | 672.0  | 646.0  | 630.3  | 619.9  | 625.2  |
| 63°   | 750.1  | 744.9  | 734.6  | 713.8  | 687.6  | 656.4  | 625.2  | 604.2  | 588.7  | 573.1  | 578.2  |
| 64°   | 713.8  | 708.5  | 692.8  | 672.0  | 646.0  | 614.7  | 583.4  | 562.6  | 552.2  | 536.6  | 531.4  |
| 65°   | 666.8  | 661.6  | 656.4  | 630.3  | 604.2  | 573.1  | 546.9  | 526.1  | 510.6  | 500.1  | 489.7  |
| 66°   | 625.2  | 630.3  | 619.9  | 599.1  | 567.9  | 541.8  | 505.3  | 484.5  | 474.1  | 458.5  | 448.0  |
| 67°   | 588.7  | 588.7  | 578.2  | 557.4  | 526.1  | 500.1  | 474.1  | 448.0  | 432.4  | 416.7  | 411.5  |
| 67.5° | 567.9  | 567.9  | 557.4  | 531.4  | 510.6  | 479.3  | 453.2  | 432.4  | 411.5  | 401.2  | 390.7  |
| 68°   | 546.9  | 546.9  | 541.8  | 520.9  | 494.9  | 463.6  | 437.6  | 411.5  | 390.7  | 375.1  | 369.9  |
| 69°   | 510.6  | 515.8  | 505.3  | 484.5  | 458.5  | 427.2  | 401.2  | 380.2  | 359.4  | 343.9  | 333.4  |
| 70°   | 479.3  | 474.1  | 463.6  | 442.8  | 416.7  | 395.9  | 369.9  | 343.9  | 322.9  | 302.1  | 296.9  |
| 71°   | 437.6  | 437.6  | 427.2  | 411.5  | 385.5  | 359.4  | 333.4  | 312.6  | 291.8  | 265.7  | 260.5  |
| 72°   | 406.3  | 406.3  | 395.9  | 375.1  | 354.2  | 328.2  | 302.1  | 276.1  | 260.5  | 234.5  | 224.0  |
| 72.5° | 385.5  | 390.7  | 380.2  | 359.4  | 338.6  | 307.4  | 286.5  | 265.7  | 239.6  | 218.8  | 208.4  |
| 73°   | 375.1  | 369.9  | 364.7  | 343.9  | 317.8  | 296.9  | 270.9  | 250.0  | 224.0  | 203.2  | 192.7  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°  | 90°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 77.5° | 234.5 | 234.5 | 229.2 | 208.4 | 187.5 | 166.7 | 145.9 | 125.1 | 104.2 | 83.3 | 72.9 |
| 80°   | 161.5 | 166.7 | 156.2 | 145.9 | 130.2 | 109.4 | 88.6  | 72.9  | 52.1  | 41.7 | 31.3 |
| 82.5° | 104.2 | 104.2 | 98.9  | 88.6  | 78.1  | 62.5  | 52.1  | 36.5  | 26.0  | 20.8 | 15.6 |
| 85°   | 52.1  | 57.3  | 52.1  | 46.8  | 36.5  | 31.3  | 26.0  | 15.6  | 10.5  | 5.2  | 5.2  |
| 87.5° | 20.8  | 20.8  | 20.8  | 15.6  | 15.6  | 10.5  | 5.2   | 5.2   | 5.2   | 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°    | 3844.6 | 3844.6 | 3844.6 | 3844.6 | 3844.6 | 3844.6 | 3844.6 | 3844.6 | 3844.6 | 3844.6 |
| 2.5°  | 3828.9 | 3828.9 | 3818.6 | 3813.4 | 3808.1 | 3802.9 | 3797.7 | 3792.6 | 3792.6 | 3797.7 |
| 5°    | 3797.7 | 3787.3 | 3766.4 | 3761.3 | 3745.6 | 3740.4 | 3730.0 | 3724.8 | 3730.0 | 3724.8 |
| 7.5°  | 3750.8 | 3730.0 | 3704.0 | 3693.5 | 3672.7 | 3662.2 | 3646.7 | 3646.7 | 3636.2 | 3641.4 |
| 10°   | 3688.3 | 3657.0 | 3625.7 | 3604.9 | 3589.4 | 3573.7 | 3563.3 | 3552.9 | 3547.6 | 3547.6 |
| 12.5° | 3610.2 | 3573.7 | 3542.4 | 3511.2 | 3485.1 | 3474.7 | 3453.9 | 3453.9 | 3443.5 | 3438.2 |
| 15°   | 3521.6 | 3474.7 | 3438.2 | 3407.0 | 3386.2 | 3365.3 | 3349.7 | 3339.3 | 3328.8 | 3328.8 |
| 17.5° | 3407.0 | 3365.3 | 3328.8 | 3292.3 | 3261.1 | 3245.5 | 3229.9 | 3214.2 | 3214.2 | 3203.9 |
| 20°   | 3282.0 | 3235.0 | 3203.9 | 3167.4 | 3141.3 | 3115.3 | 3094.4 | 3094.4 | 3084.0 | 3089.3 |
| 22.5° | 3141.3 | 3084.0 | 3052.8 | 3026.7 | 3000.7 | 2979.9 | 2958.9 | 2958.9 | 2953.7 | 2948.6 |
| 25°   | 2985.0 | 2938.1 | 2901.6 | 2870.4 | 2854.8 | 2834.0 | 2828.7 | 2818.3 | 2813.2 | 2813.2 |
| 27.5° | 2818.3 | 2781.9 | 2734.9 | 2719.4 | 2698.6 | 2688.1 | 2688.1 | 2682.9 | 2672.5 | 2677.6 |
| 30°   | 2641.2 | 2599.5 | 2573.5 | 2563.0 | 2542.2 | 2542.2 | 2537.0 | 2526.6 | 2526.6 | 2531.9 |
| 32.5° | 2469.3 | 2427.6 | 2406.8 | 2401.5 | 2380.7 | 2380.7 | 2375.5 | 2380.7 | 2380.7 | 2386.0 |
| 35°   | 2281.7 | 2245.3 | 2240.1 | 2224.5 | 2219.3 | 2219.3 | 2219.3 | 2229.6 | 2240.1 | 2224.5 |
| 37.5° | 2104.6 | 2078.6 | 2062.9 | 2057.7 | 2062.9 | 2062.9 | 2068.1 | 2083.8 | 2078.6 | 2073.4 |
| 40°   | 1922.3 | 1901.4 | 1891.0 | 1891.0 | 1901.4 | 1911.9 | 1911.9 | 1927.5 | 1932.7 | 1927.5 |
| 42.5° | 1740.0 | 1724.3 | 1724.3 | 1729.5 | 1740.0 | 1745.2 | 1760.8 | 1776.5 | 1781.6 | 1786.8 |
| 45°   | 1568.1 | 1568.1 | 1568.1 | 1573.3 | 1578.5 | 1588.9 | 1609.7 | 1625.4 | 1630.6 | 1635.8 |
| 47.5° | 1401.4 | 1396.1 | 1411.8 | 1416.9 | 1432.6 | 1437.9 | 1453.4 | 1474.2 | 1479.5 | 1484.7 |
| 50°   | 1245.1 | 1255.5 | 1260.7 | 1276.3 | 1286.7 | 1286.7 | 1307.5 | 1318.0 | 1333.6 | 1333.6 |
| 52.5° | 1099.2 | 1114.8 | 1120.0 | 1135.6 | 1140.8 | 1146.1 | 1156.5 | 1172.1 | 1182.6 | 1182.6 |
| 55°   | 968.9  | 974.1  | 984.6  | 989.8  | 1005.4 | 1010.6 | 1021.1 | 1026.2 | 1041.9 | 1036.7 |
| 56°   | 911.6  | 922.1  | 927.3  | 937.8  | 948.1  | 953.3  | 963.8  | 968.9  | 979.4  | 984.6  |
| 57°   | 859.5  | 864.8  | 880.5  | 885.6  | 896.0  | 896.0  | 901.3  | 916.8  | 916.8  | 922.1  |
| 58°   | 807.4  | 817.9  | 823.1  | 828.3  | 838.7  | 844.0  | 854.3  | 859.5  | 864.8  | 859.5  |
| 59°   | 760.6  | 765.8  | 770.9  | 770.9  | 781.4  | 781.4  | 797.1  | 807.4  | 812.7  | 812.7  |
| 60°   | 713.8  | 713.8  | 718.9  | 724.1  | 734.6  | 739.8  | 739.8  | 750.1  | 750.1  | 750.1  |
| 61°   | 666.8  | 666.8  | 672.0  | 677.3  | 682.5  | 682.5  | 692.8  | 692.8  | 698.1  | 703.3  |
| 62°   | 625.2  | 619.9  | 619.9  | 625.2  | 625.2  | 635.5  | 640.8  | 646.0  | 651.2  | 646.0  |
| 63°   | 578.2  | 573.1  | 573.1  | 573.1  | 573.1  | 583.4  | 583.4  | 588.7  | 599.1  | 593.9  |
| 64°   | 526.1  | 526.1  | 526.1  | 526.1  | 531.4  | 531.4  | 541.8  | 546.9  | 552.2  | 557.4  |
| 65°   | 489.7  | 479.3  | 474.1  | 474.1  | 479.3  | 484.5  | 489.7  | 494.9  | 500.1  | 500.1  |
| 66°   | 448.0  | 437.6  | 432.4  | 432.4  | 432.4  | 432.4  | 442.8  | 442.8  | 453.2  | 453.2  |
| 67°   | 401.2  | 390.7  | 385.5  | 380.2  | 380.2  | 380.2  | 395.9  | 390.7  | 390.7  | 390.7  |
| 67.5° | 385.5  | 369.9  | 364.7  | 359.4  | 354.2  | 364.7  | 359.4  | 364.7  | 364.7  | 359.4  |
| 68°   | 364.7  | 354.2  | 343.9  | 333.4  | 333.4  | 333.4  | 338.6  | 343.9  | 338.6  | 333.4  |
| 69°   | 322.9  | 317.8  | 302.1  | 291.8  | 286.5  | 291.8  | 286.5  | 291.8  | 286.5  | 291.8  |
| 70°   | 286.5  | 270.9  | 255.3  | 250.0  | 244.8  | 244.8  | 244.8  | 239.6  | 244.8  | 239.6  |
| 71°   | 250.0  | 234.5  | 218.8  | 208.4  | 203.2  | 203.2  | 198.0  | 203.2  | 198.0  | 203.2  |
| 72°   | 213.5  | 198.0  | 177.2  | 166.7  | 166.7  | 166.7  | 166.7  | 161.5  | 166.7  | 161.5  |
| 72.5° | 198.0  | 177.2  | 161.5  | 151.1  | 145.9  | 145.9  | 145.9  | 145.9  | 140.7  | 145.9  |
| 73°   | 182.3  | 161.5  | 140.7  | 135.4  | 135.4  | 135.4  | 130.2  | 125.1  | 130.2  | 130.2  |





TEST NUMBER: P585246  
 CATALOG NUMBER: HCC8S80D010BZ-HM86080840-81RWWH

**CANDELA DISTRIBUTION (continued):**

|       | 95°  | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|------|------|------|------|------|------|------|------|------|------|
| 77.5° | 62.5 | 46.8 | 41.7 | 41.7 | 41.7 | 41.7 | 41.7 | 41.7 | 36.5 | 36.5 |
| 80°   | 26.0 | 20.8 | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 |
| 82.5° | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 |
| 85°   | 5.2  | 5.2  | 5.2  | 5.2  | 5.2  | 5.2  | 5.2  | 5.2  | 5.2  | 5.2  |
| 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° | 338.6 | 338.6 | 328.2 | 312.6 | 286.5 | 260.5 | 239.6 | 218.8 | 192.7 | 166.7 | 156.2 |
| 75° | 312.6 | 307.4 | 296.9 | 281.3 | 260.5 | 234.5 | 213.5 | 187.5 | 166.7 | 140.7 | 130.2 |

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|     |       |       |       |       |       |       |      |      |      |       |
|-----|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| 74° | 151.1 | 125.1 | 114.6 | 104.2 | 104.2 | 104.2 | 98.9 | 98.9 | 98.9 | 104.2 |
| 75° | 119.9 | 98.9  | 88.6  | 78.1  | 83.3  | 78.1  | 83.3 | 78.1 | 78.1 | 78.1  |

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(END OF REPORT)