

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: P593546

Luminaire Tested: **HCC8S10D010BZ-HM80520950-81RWWH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593546  
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: HCC8S10D010BZ-HM80520950-81RWWH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

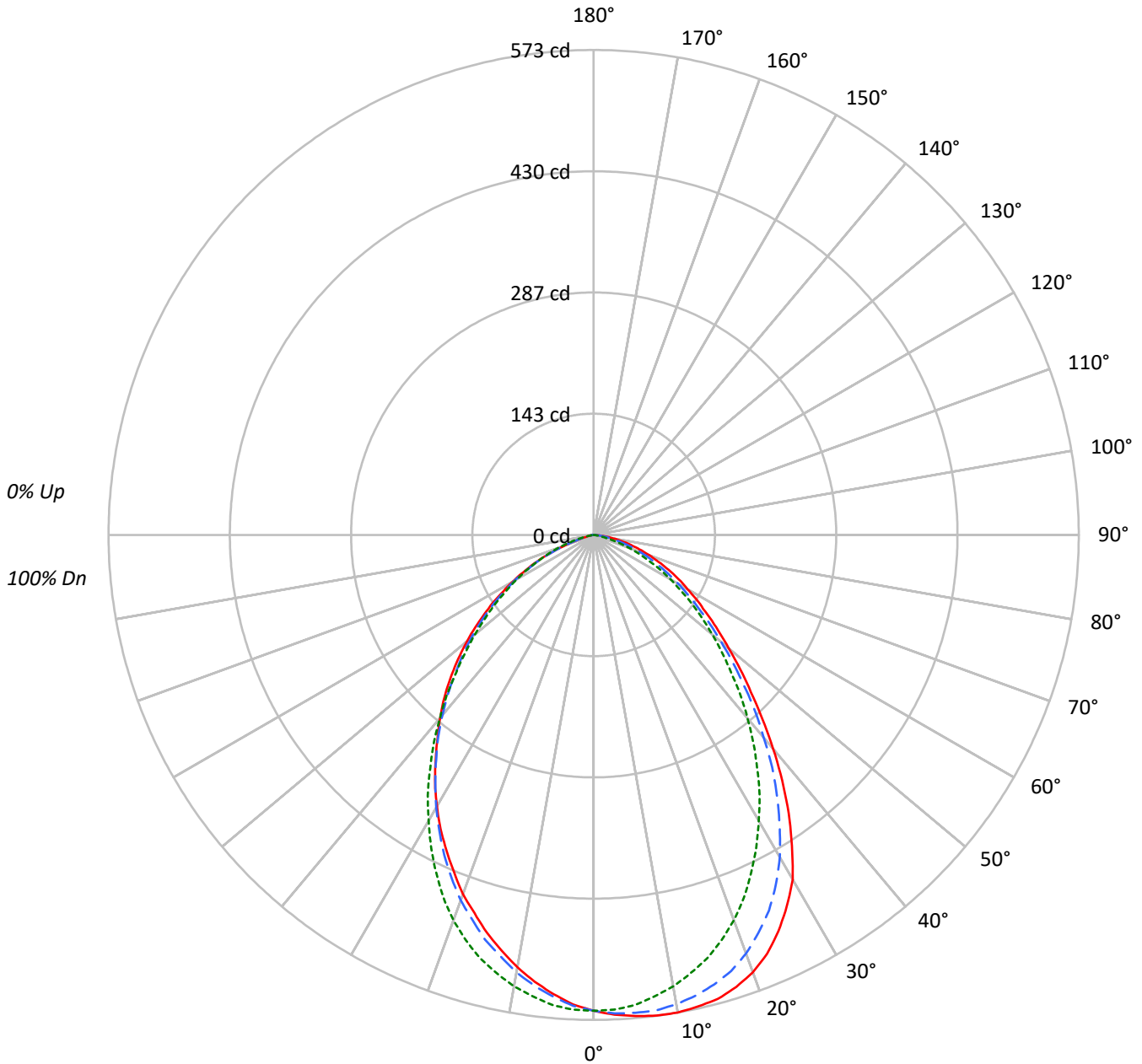
Lumens per Lamp: N/A  
Luminaire Lumens: 1053.8 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
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: P593546  
CATALOG NUMBER: HCC8S10D010BZ-HM80520950-81RWWH

### 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 |    |    |    | 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°  | 17336 | 17336 | 17336 |
| 5°  | 17662 | 17260 | 16858 |
| 10° | 17939 | 16959 | 16245 |
| 15° | 18117 | 16533 | 15537 |
| 20° | 18045 | 15896 | 14823 |
| 25° | 17573 | 14981 | 13994 |
| 30° | 16735 | 13887 | 13182 |
| 35° | 15114 | 12675 | 12246 |
| 40° | 13276 | 11376 | 11348 |
| 45° | 11460 | 9995  | 10431 |
| 50° | 9974  | 8769  | 9355  |
| 55° | 8849  | 7618  | 8150  |
| 60° | 7894  | 6432  | 6765  |
| 65° | 7114  | 5224  | 5334  |
| 70° | 6320  | 3913  | 3165  |
| 75° | 5445  | 2264  | 1358  |
| 80° | 4191  | 817   | 408   |
| 85° | 2689  | 248   | 248   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 52.8   | 5.0       |
| 10°-20°   | 146.9  | 13.9      |
| 20°-30°   | 207.8  | 19.7      |
| 30°-40°   | 218.9  | 20.8      |
| 40°-50°   | 186.1  | 17.7      |
| 50°-60°   | 134.0  | 12.7      |
| 60°-70°   | 77.3   | 7.3       |
| 70°-80°   | 26.4   | 2.5       |
| 80°-90°   | 3.6    | 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°    | 407.5  | 38.7      |
| 0°-40°    | 626.4  | 59.4      |
| 0°-60°    | 946.5  | 89.8      |
| 0°-90°    | 1053.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1053.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 562 | 562 | 562 | 562  | 562  |      |
| 5°  | 571 | 567 | 558 | 548  | 545  | 55   |
| 15° | 568 | 550 | 518 | 495  | 487  | 160  |
| 25° | 516 | 490 | 440 | 418  | 411  | 237  |
| 35° | 402 | 378 | 337 | 324  | 325  | 250  |
| 45° | 263 | 251 | 229 | 231  | 239  | 204  |
| 55° | 165 | 152 | 142 | 147  | 152  | 148  |
| 65° | 98  | 84  | 72  | 70   | 73   | 97   |
| 75° | 46  | 34  | 19  | 12   | 11   | 48   |
| 85° | 8   | 5   | 1   | 1    | 1    | 10   |
| 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°    | 562.2 | 562.2 | 562.2 | 562.2 | 562.2 | 562.2 | 562.2 | 562.2 | 562.2 | 562.2 | 562.2 |
| 2.5°  | 567.5 | 568.3 | 567.5 | 567.5 | 566.7 | 565.9 | 565.2 | 564.5 | 562.9 | 561.3 | 561.3 |
| 5°    | 570.6 | 572.0 | 570.6 | 570.6 | 568.3 | 566.7 | 565.2 | 562.9 | 559.9 | 557.6 | 557.6 |
| 7.5°  | 572.9 | 572.9 | 572.9 | 570.6 | 569.0 | 566.7 | 562.9 | 559.1 | 553.8 | 548.5 | 543.1 |
| 10°   | 572.9 | 572.9 | 572.0 | 569.0 | 567.5 | 562.9 | 559.1 | 553.8 | 548.5 | 543.1 | 541.6 |
| 12.5° | 570.6 | 571.3 | 569.7 | 566.7 | 562.9 | 557.6 | 552.2 | 545.3 | 539.3 | 533.2 | 530.2 |
| 15°   | 567.5 | 566.7 | 565.2 | 561.3 | 556.8 | 549.9 | 544.6 | 537.1 | 528.6 | 521.1 | 517.9 |
| 17.5° | 559.9 | 559.9 | 557.6 | 553.8 | 547.6 | 540.1 | 531.6 | 523.4 | 514.2 | 505.8 | 502.0 |
| 20°   | 549.9 | 549.9 | 546.9 | 542.3 | 536.2 | 526.4 | 517.2 | 507.4 | 496.7 | 488.3 | 484.4 |
| 22.5° | 535.5 | 536.2 | 532.5 | 527.1 | 520.2 | 508.8 | 499.7 | 487.5 | 476.8 | 467.0 | 463.9 |
| 25°   | 516.5 | 517.9 | 514.2 | 508.8 | 499.7 | 489.8 | 478.4 | 467.0 | 454.7 | 444.9 | 440.3 |
| 27.5° | 494.4 | 495.1 | 491.3 | 486.0 | 476.8 | 466.1 | 454.7 | 442.6 | 431.2 | 420.5 | 415.9 |
| 30°   | 470.0 | 467.0 | 465.4 | 458.6 | 448.7 | 439.6 | 426.6 | 416.6 | 404.5 | 395.3 | 390.0 |
| 32.5° | 435.7 | 437.3 | 432.6 | 427.3 | 419.7 | 409.0 | 398.3 | 386.9 | 375.5 | 368.7 | 364.8 |
| 35°   | 401.5 | 402.9 | 400.6 | 395.3 | 386.9 | 377.8 | 367.1 | 358.8 | 348.8 | 340.5 | 336.7 |
| 37.5° | 365.6 | 365.6 | 364.1 | 361.1 | 355.0 | 346.5 | 336.0 | 327.5 | 319.1 | 312.3 | 310.0 |
| 40°   | 329.8 | 328.3 | 327.5 | 325.3 | 320.0 | 312.3 | 305.4 | 298.6 | 290.2 | 285.6 | 282.6 |
| 42.5° | 294.7 | 294.7 | 293.3 | 291.0 | 285.6 | 281.9 | 275.0 | 267.3 | 261.3 | 256.7 | 256.7 |
| 45°   | 262.8 | 263.6 | 261.3 | 259.8 | 256.7 | 250.6 | 244.5 | 239.2 | 233.8 | 230.8 | 229.2 |
| 47.5° | 234.6 | 234.6 | 232.3 | 230.8 | 227.8 | 222.4 | 217.1 | 212.5 | 208.7 | 206.4 | 205.7 |
| 50°   | 207.9 | 207.9 | 207.9 | 204.1 | 200.4 | 196.5 | 192.7 | 187.4 | 185.1 | 183.5 | 182.8 |
| 52.5° | 185.1 | 184.4 | 184.4 | 181.3 | 177.5 | 173.0 | 169.1 | 164.6 | 162.3 | 160.7 | 161.4 |
| 55°   | 164.6 | 164.6 | 163.7 | 160.0 | 156.1 | 151.6 | 147.7 | 144.0 | 142.4 | 140.9 | 141.7 |
| 56°   | 156.1 | 156.1 | 155.4 | 152.3 | 147.7 | 144.0 | 139.4 | 135.6 | 133.3 | 134.0 | 134.0 |
| 57°   | 150.0 | 148.6 | 148.6 | 144.7 | 140.9 | 135.6 | 131.7 | 128.0 | 126.5 | 125.7 | 125.7 |
| 58°   | 142.4 | 141.7 | 140.9 | 137.1 | 133.3 | 128.7 | 124.9 | 121.2 | 118.9 | 118.9 | 118.0 |
| 59°   | 134.9 | 134.9 | 133.3 | 130.3 | 126.5 | 121.9 | 118.0 | 114.3 | 112.0 | 111.2 | 111.2 |
| 60°   | 128.0 | 128.7 | 126.5 | 123.4 | 120.3 | 115.0 | 110.5 | 107.5 | 105.2 | 104.3 | 104.3 |
| 61°   | 121.9 | 121.9 | 120.3 | 116.6 | 112.7 | 108.9 | 104.3 | 100.6 | 99.0  | 97.5  | 97.5  |
| 62°   | 116.6 | 115.0 | 114.3 | 110.5 | 106.6 | 102.0 | 98.2  | 94.5  | 92.2  | 90.6  | 91.4  |
| 63°   | 109.7 | 108.9 | 107.5 | 104.3 | 100.6 | 95.9  | 91.4  | 88.3  | 86.1  | 83.8  | 84.5  |
| 64°   | 104.3 | 103.6 | 101.3 | 98.2  | 94.5  | 89.9  | 85.3  | 82.2  | 80.8  | 78.5  | 77.6  |
| 65°   | 97.5  | 96.8  | 95.9  | 92.2  | 88.3  | 83.8  | 79.9  | 76.9  | 74.6  | 73.1  | 71.6  |
| 66°   | 91.4  | 92.2  | 90.6  | 87.6  | 83.1  | 79.2  | 73.9  | 70.8  | 69.4  | 67.1  | 65.5  |
| 67°   | 86.1  | 86.1  | 84.5  | 81.5  | 76.9  | 73.1  | 69.4  | 65.5  | 63.2  | 60.9  | 60.2  |
| 67.5° | 83.1  | 83.1  | 81.5  | 77.6  | 74.6  | 70.1  | 66.2  | 63.2  | 60.2  | 58.7  | 57.1  |
| 68°   | 79.9  | 79.9  | 79.2  | 76.2  | 72.4  | 67.8  | 63.9  | 60.2  | 57.1  | 54.8  | 54.1  |
| 69°   | 74.6  | 75.4  | 73.9  | 70.8  | 67.1  | 62.5  | 58.7  | 55.7  | 52.5  | 50.2  | 48.8  |
| 70°   | 70.1  | 69.4  | 67.8  | 64.8  | 60.9  | 57.9  | 54.1  | 50.2  | 47.2  | 44.2  | 43.4  |
| 71°   | 63.9  | 63.9  | 62.5  | 60.2  | 56.4  | 52.5  | 48.8  | 45.7  | 42.7  | 38.8  | 38.1  |
| 72°   | 59.4  | 59.4  | 57.9  | 54.8  | 51.8  | 48.0  | 44.2  | 40.4  | 38.1  | 34.3  | 32.7  |
| 72.5° | 56.4  | 57.1  | 55.7  | 52.5  | 49.5  | 45.0  | 41.9  | 38.8  | 35.1  | 32.0  | 30.4  |
| 73°   | 54.8  | 54.1  | 53.4  | 50.2  | 46.5  | 43.4  | 39.7  | 36.5  | 32.7  | 29.7  | 28.1  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 75°  | 85°  | 90°  |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 77.5° | 34.3 | 34.3 | 33.5 | 30.4 | 27.4 | 24.4 | 21.3 | 18.3 | 15.3 | 12.1 | 10.7 |
| 80°   | 23.6 | 24.4 | 22.8 | 21.3 | 19.0 | 16.0 | 13.0 | 10.7 | 7.6  | 6.1  | 4.6  |
| 82.5° | 15.3 | 15.3 | 14.4 | 13.0 | 11.4 | 9.1  | 7.6  | 5.3  | 3.8  | 3.0  | 2.3  |
| 85°   | 7.6  | 8.4  | 7.6  | 6.9  | 5.3  | 4.6  | 3.8  | 2.3  | 1.6  | 0.7  | 0.7  |
| 87.5° | 3.0  | 3.0  | 3.0  | 2.3  | 2.3  | 1.6  | 0.7  | 0.7  | 0.7  | 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°    | 562.2 | 562.2 | 562.2 | 562.2 | 562.2 | 562.2 | 562.2 | 562.2 | 562.2 | 562.2 |
| 2.5°  | 559.9 | 559.9 | 558.3 | 557.6 | 556.8 | 556.0 | 555.3 | 554.5 | 554.5 | 555.3 |
| 5°    | 555.3 | 553.8 | 550.8 | 549.9 | 547.6 | 546.9 | 545.3 | 544.6 | 545.3 | 544.6 |
| 7.5°  | 548.5 | 545.3 | 541.6 | 540.1 | 537.1 | 535.5 | 533.2 | 533.2 | 531.6 | 532.5 |
| 10°   | 539.3 | 534.8 | 530.2 | 527.1 | 524.8 | 522.5 | 521.1 | 519.5 | 518.8 | 518.8 |
| 12.5° | 527.9 | 522.5 | 517.9 | 513.4 | 509.6 | 508.1 | 505.1 | 505.1 | 503.5 | 502.8 |
| 15°   | 514.9 | 508.1 | 502.8 | 498.1 | 495.1 | 492.1 | 489.8 | 488.3 | 486.7 | 486.7 |
| 17.5° | 498.1 | 492.1 | 486.7 | 481.4 | 476.8 | 474.5 | 472.3 | 470.0 | 470.0 | 468.4 |
| 20°   | 479.8 | 473.0 | 468.4 | 463.1 | 459.3 | 455.6 | 452.4 | 452.4 | 451.0 | 451.7 |
| 22.5° | 459.3 | 451.0 | 446.4 | 442.6 | 438.7 | 435.7 | 432.6 | 432.6 | 431.9 | 431.2 |
| 25°   | 436.4 | 429.6 | 424.3 | 419.7 | 417.5 | 414.3 | 413.6 | 412.0 | 411.3 | 411.3 |
| 27.5° | 412.0 | 406.8 | 399.9 | 397.6 | 394.6 | 393.1 | 393.1 | 392.3 | 390.8 | 391.5 |
| 30°   | 386.2 | 380.1 | 376.3 | 374.8 | 371.8 | 371.8 | 370.9 | 369.5 | 369.5 | 370.2 |
| 32.5° | 361.1 | 355.0 | 351.9 | 351.1 | 348.1 | 348.1 | 347.4 | 348.1 | 348.1 | 348.8 |
| 35°   | 333.7 | 328.3 | 327.5 | 325.3 | 324.5 | 324.5 | 324.5 | 326.0 | 327.5 | 325.3 |
| 37.5° | 307.7 | 304.0 | 301.7 | 300.9 | 301.7 | 301.7 | 302.4 | 304.7 | 304.0 | 303.1 |
| 40°   | 281.0 | 278.0 | 276.5 | 276.5 | 278.0 | 279.6 | 279.6 | 281.9 | 282.6 | 281.9 |
| 42.5° | 254.5 | 252.2 | 252.2 | 252.9 | 254.5 | 255.2 | 257.5 | 259.8 | 260.5 | 261.3 |
| 45°   | 229.2 | 229.2 | 229.2 | 230.1 | 230.8 | 232.3 | 235.4 | 237.6 | 238.5 | 239.2 |
| 47.5° | 204.9 | 204.1 | 206.4 | 207.2 | 209.5 | 210.2 | 212.5 | 215.5 | 216.4 | 217.1 |
| 50°   | 182.1 | 183.5 | 184.4 | 186.7 | 188.1 | 188.1 | 191.2 | 192.7 | 195.0 | 195.0 |
| 52.5° | 160.7 | 163.0 | 163.7 | 166.0 | 166.8 | 167.6 | 169.1 | 171.4 | 173.0 | 173.0 |
| 55°   | 141.7 | 142.4 | 144.0 | 144.7 | 147.0 | 147.7 | 149.3 | 150.0 | 152.3 | 151.6 |
| 56°   | 133.3 | 134.9 | 135.6 | 137.1 | 138.6 | 139.4 | 140.9 | 141.7 | 143.2 | 144.0 |
| 57°   | 125.7 | 126.5 | 128.7 | 129.5 | 131.0 | 131.0 | 131.7 | 134.0 | 134.0 | 134.9 |
| 58°   | 118.0 | 119.6 | 120.3 | 121.2 | 122.6 | 123.4 | 124.9 | 125.7 | 126.5 | 125.7 |
| 59°   | 111.2 | 112.0 | 112.7 | 112.7 | 114.3 | 114.3 | 116.6 | 118.0 | 118.9 | 118.9 |
| 60°   | 104.3 | 104.3 | 105.2 | 105.9 | 107.5 | 108.2 | 108.2 | 109.7 | 109.7 | 109.7 |
| 61°   | 97.5  | 97.5  | 98.2  | 99.0  | 99.8  | 99.8  | 101.3 | 101.3 | 102.0 | 102.9 |
| 62°   | 91.4  | 90.6  | 90.6  | 91.4  | 91.4  | 92.9  | 93.6  | 94.5  | 95.2  | 94.5  |
| 63°   | 84.5  | 83.8  | 83.8  | 83.8  | 83.8  | 85.3  | 85.3  | 86.1  | 87.6  | 86.8  |
| 64°   | 76.9  | 76.9  | 76.9  | 76.9  | 77.6  | 77.6  | 79.2  | 79.9  | 80.8  | 81.5  |
| 65°   | 71.6  | 70.1  | 69.4  | 69.4  | 70.1  | 70.8  | 71.6  | 72.4  | 73.1  | 73.1  |
| 66°   | 65.5  | 63.9  | 63.2  | 63.2  | 63.2  | 63.2  | 64.8  | 64.8  | 66.2  | 66.2  |
| 67°   | 58.7  | 57.1  | 56.4  | 55.7  | 55.7  | 55.7  | 57.9  | 57.1  | 57.1  | 57.1  |
| 67.5° | 56.4  | 54.1  | 53.4  | 52.5  | 51.8  | 53.4  | 52.5  | 53.4  | 53.4  | 52.5  |
| 68°   | 53.4  | 51.8  | 50.2  | 48.8  | 48.8  | 48.8  | 49.5  | 50.2  | 49.5  | 48.8  |
| 69°   | 47.2  | 46.5  | 44.2  | 42.7  | 41.9  | 42.7  | 41.9  | 42.7  | 41.9  | 42.7  |
| 70°   | 41.9  | 39.7  | 37.4  | 36.5  | 35.8  | 35.8  | 35.8  | 35.1  | 35.8  | 35.1  |
| 71°   | 36.5  | 34.3  | 32.0  | 30.4  | 29.7  | 29.7  | 29.0  | 29.7  | 29.0  | 29.7  |
| 72°   | 31.3  | 29.0  | 25.8  | 24.4  | 24.4  | 24.4  | 24.4  | 23.6  | 24.4  | 23.6  |
| 72.5° | 29.0  | 25.8  | 23.6  | 22.1  | 21.3  | 21.3  | 21.3  | 21.3  | 20.6  | 21.3  |
| 73°   | 26.7  | 23.6  | 20.6  | 19.8  | 19.8  | 19.8  | 19.0  | 18.3  | 19.0  | 19.0  |





TEST NUMBER: P593546  
 CATALOG NUMBER: HCC8S10D010BZ-HM80520950-81RWWH

**CANDELA DISTRIBUTION (continued):**

|       | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-----|------|------|------|------|------|------|------|------|------|
| 77.5° | 9.1 | 6.9  | 6.1  | 6.1  | 6.1  | 6.1  | 6.1  | 6.1  | 5.3  | 5.3  |
| 80°   | 3.8 | 3.0  | 2.3  | 2.3  | 2.3  | 2.3  | 2.3  | 2.3  | 2.3  | 2.3  |
| 82.5° | 1.6 | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  |
| 85°   | 0.7 | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  |
| 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° | 49.5 | 49.5 | 48.0 | 45.7 | 41.9 | 38.1 | 35.1 | 32.0 | 28.1 | 24.4 | 22.8 |
| 75° | 45.7 | 45.0 | 43.4 | 41.1 | 38.1 | 34.3 | 31.3 | 27.4 | 24.4 | 20.6 | 19.0 |

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|     |      |      |      |      |      |      |      |      |      |      |
|-----|------|------|------|------|------|------|------|------|------|------|
| 74° | 22.1 | 18.3 | 16.7 | 15.3 | 15.3 | 15.3 | 14.4 | 14.4 | 14.4 | 15.3 |
| 75° | 17.5 | 14.4 | 13.0 | 11.4 | 12.1 | 11.4 | 12.1 | 11.4 | 11.4 | 11.4 |

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(END OF REPORT)