

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: P585280

Luminaire Tested: **HCC8S80D010MW-HM86080930-81RWWH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585280  
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: HCC8S80D010MW-HM86080930-81RWWH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

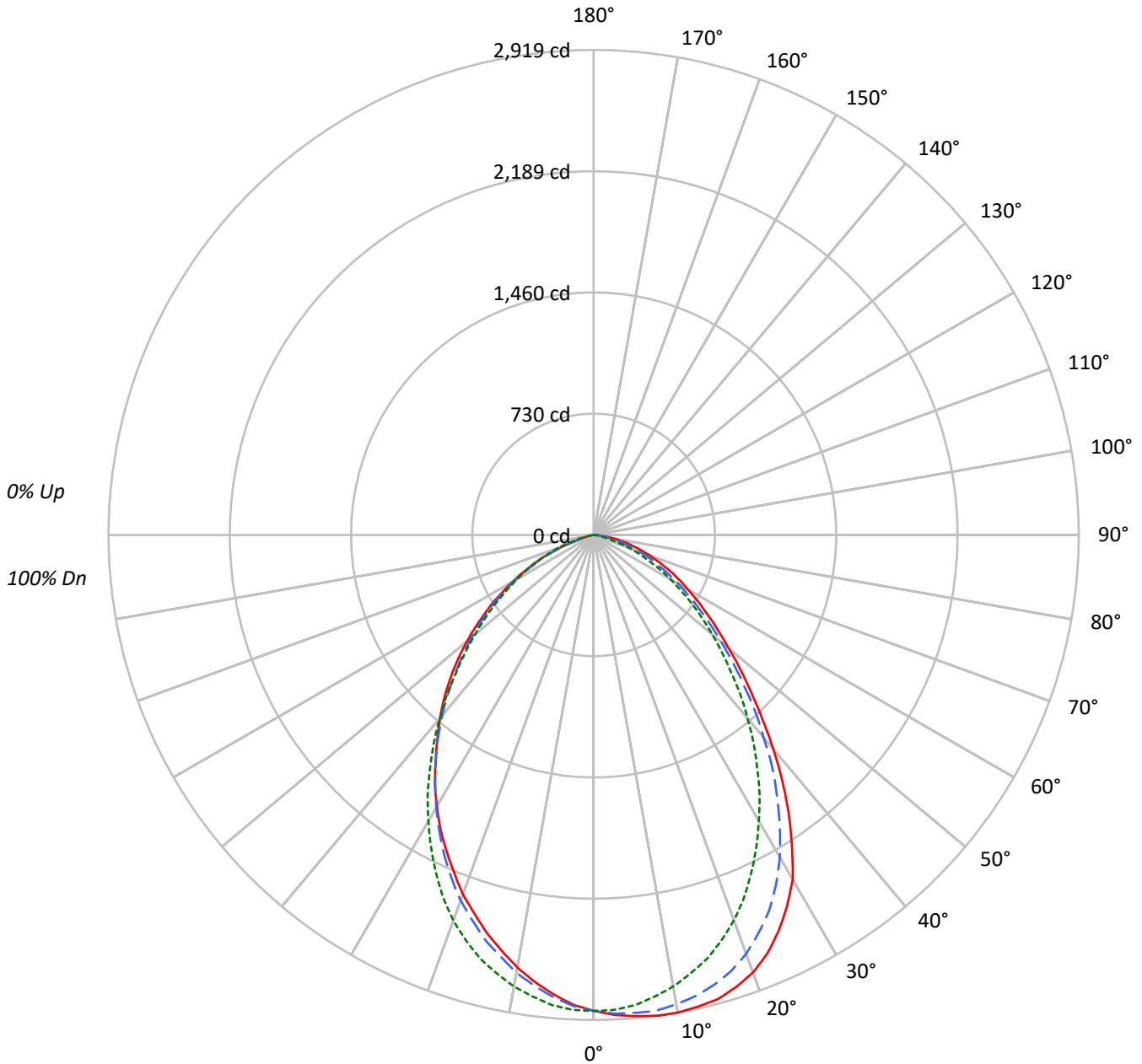
Lumens per Lamp: N/A  
Luminaire Lumens: 5370.7 lumens  
Efficiency: N/A  
Efficacy: 76.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P585280  
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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   | 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°  | 88343 | 88343 | 88343 |
| 5°  | 90002 | 87959 | 85916 |
| 10° | 91406 | 86421 | 82776 |
| 15° | 92325 | 84270 | 79188 |
| 20° | 91971 | 81014 | 75538 |
| 25° | 89551 | 76343 | 71321 |
| 30° | 85282 | 70768 | 67176 |
| 35° | 77012 | 64590 | 62399 |
| 40° | 67663 | 57974 | 57817 |
| 45° | 58406 | 50953 | 53160 |
| 50° | 50842 | 44696 | 47675 |
| 55° | 45079 | 38821 | 41531 |
| 60° | 40223 | 32798 | 34469 |
| 65° | 36256 | 26625 | 27187 |
| 70° | 32205 | 19952 | 16102 |
| 75° | 27748 | 11557 | 6946  |
| 80° | 21363 | 4138  | 2078  |
| 85° | 13728 | 1380  | 1380  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 268.9  | 5.0       |
| 10°-20°   | 748.7  | 13.9      |
| 20°-30°   | 1058.9 | 19.7      |
| 30°-40°   | 1115.8 | 20.8      |
| 40°-50°   | 948.3  | 17.7      |
| 50°-60°   | 682.9  | 12.7      |
| 60°-70°   | 393.9  | 7.3       |
| 70°-80°   | 134.8  | 2.5       |
| 80°-90°   | 18.5   | 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°    | 2076.5 | 38.7      |
| 0°-40°    | 3192.3 | 59.4      |
| 0°-60°    | 4823.4 | 89.8      |
| 0°-90°    | 5370.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5370.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2865 | 2865 | 2865 | 2865 | 2865 |      |
| 5°  | 2908 | 2888 | 2842 | 2791 | 2776 | 278  |
| 15° | 2892 | 2803 | 2640 | 2523 | 2480 | 814  |
| 25° | 2632 | 2496 | 2244 | 2127 | 2096 | 1207 |
| 35° | 2046 | 1926 | 1716 | 1654 | 1658 | 1274 |
| 45° | 1339 | 1277 | 1168 | 1176 | 1219 | 1040 |
| 55° | 838  | 772  | 722  | 749  | 772  | 755  |
| 65° | 497  | 427  | 365  | 357  | 373  | 494  |
| 75° | 233  | 175  | 97   | 62   | 58   | 246  |
| 85° | 39   | 23   | 4    | 4    | 4    | 52   |
| 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°    | 2864.9 | 2864.9 | 2864.9 | 2864.9 | 2864.9 | 2864.9 | 2864.9 | 2864.9 | 2864.9 | 2864.9 | 2864.9 |
| 2.5°  | 2892.0 | 2895.9 | 2892.0 | 2892.0 | 2888.1 | 2884.3 | 2880.4 | 2876.4 | 2868.7 | 2861.0 | 2861.0 |
| 5°    | 2907.6 | 2915.3 | 2907.6 | 2907.6 | 2895.9 | 2888.1 | 2880.4 | 2868.7 | 2853.2 | 2841.6 | 2841.6 |
| 7.5°  | 2919.2 | 2919.2 | 2919.2 | 2907.6 | 2899.7 | 2888.1 | 2868.7 | 2849.3 | 2829.9 | 2810.4 | 2802.7 |
| 10°   | 2919.2 | 2919.2 | 2915.3 | 2899.7 | 2892.0 | 2868.7 | 2849.3 | 2822.1 | 2795.0 | 2767.8 | 2760.0 |
| 12.5° | 2907.6 | 2911.4 | 2903.7 | 2888.1 | 2868.7 | 2841.6 | 2814.4 | 2779.4 | 2748.4 | 2717.3 | 2701.8 |
| 15°   | 2892.0 | 2888.1 | 2880.4 | 2861.0 | 2837.7 | 2802.7 | 2775.6 | 2736.7 | 2694.0 | 2655.3 | 2639.7 |
| 17.5° | 2853.2 | 2853.2 | 2841.6 | 2822.1 | 2791.1 | 2752.3 | 2709.6 | 2666.8 | 2620.3 | 2577.6 | 2558.1 |
| 20°   | 2802.7 | 2802.7 | 2787.3 | 2763.9 | 2732.8 | 2682.4 | 2635.8 | 2585.4 | 2531.0 | 2488.3 | 2468.8 |
| 22.5° | 2729.0 | 2732.8 | 2713.4 | 2686.3 | 2651.4 | 2593.1 | 2546.5 | 2484.4 | 2430.1 | 2379.5 | 2364.1 |
| 25°   | 2632.0 | 2639.7 | 2620.3 | 2593.1 | 2546.5 | 2496.1 | 2437.8 | 2379.5 | 2317.5 | 2267.1 | 2243.8 |
| 27.5° | 2519.4 | 2523.2 | 2503.8 | 2476.7 | 2430.1 | 2375.7 | 2317.5 | 2255.4 | 2197.2 | 2142.8 | 2119.5 |
| 30°   | 2395.1 | 2379.5 | 2371.8 | 2336.9 | 2286.4 | 2239.8 | 2173.8 | 2123.4 | 2061.3 | 2014.8 | 1987.5 |
| 32.5° | 2220.5 | 2228.2 | 2204.9 | 2177.8 | 2138.9 | 2084.6 | 2030.2 | 1972.0 | 1913.8 | 1878.9 | 1859.5 |
| 35°   | 2045.8 | 2053.5 | 2041.9 | 2014.8 | 1972.0 | 1925.5 | 1871.1 | 1828.3 | 1777.9 | 1735.2 | 1715.8 |
| 37.5° | 1863.3 | 1863.3 | 1855.6 | 1840.0 | 1808.9 | 1766.3 | 1711.9 | 1669.2 | 1626.6 | 1591.6 | 1579.9 |
| 40°   | 1680.9 | 1673.0 | 1669.2 | 1657.6 | 1630.4 | 1591.6 | 1556.6 | 1521.7 | 1479.0 | 1455.7 | 1440.2 |
| 42.5° | 1502.3 | 1502.3 | 1494.6 | 1482.9 | 1455.7 | 1436.3 | 1401.4 | 1362.6 | 1331.4 | 1308.3 | 1308.3 |
| 45°   | 1339.3 | 1343.1 | 1331.4 | 1323.7 | 1308.3 | 1277.1 | 1246.1 | 1219.0 | 1191.7 | 1176.2 | 1168.4 |
| 47.5° | 1195.7 | 1195.7 | 1184.0 | 1176.2 | 1160.7 | 1133.5 | 1106.4 | 1083.1 | 1063.7 | 1052.0 | 1048.1 |
| 50°   | 1059.8 | 1059.8 | 1059.8 | 1040.4 | 1021.0 | 1001.5 | 982.1  | 955.0  | 943.4  | 935.5  | 931.7  |
| 52.5° | 943.4  | 939.4  | 939.4  | 923.9  | 904.5  | 881.2  | 861.8  | 838.5  | 826.8  | 819.1  | 822.9  |
| 55°   | 838.5  | 838.5  | 834.6  | 815.2  | 795.8  | 772.5  | 753.1  | 733.7  | 725.9  | 718.2  | 722.1  |
| 56°   | 795.8  | 795.8  | 791.9  | 776.4  | 753.1  | 733.7  | 710.4  | 690.9  | 679.3  | 683.2  | 683.2  |
| 57°   | 764.8  | 756.9  | 756.9  | 737.5  | 718.2  | 690.9  | 671.5  | 652.2  | 644.4  | 640.5  | 640.5  |
| 58°   | 725.9  | 722.1  | 718.2  | 698.8  | 679.3  | 656.1  | 636.6  | 617.2  | 605.6  | 605.6  | 601.8  |
| 59°   | 687.1  | 687.1  | 679.3  | 663.8  | 644.4  | 621.1  | 601.8  | 582.3  | 570.6  | 566.8  | 566.8  |
| 60°   | 652.2  | 656.1  | 644.4  | 628.9  | 613.3  | 586.2  | 562.9  | 547.3  | 535.6  | 531.8  | 531.8  |
| 61°   | 621.1  | 621.1  | 613.3  | 593.9  | 574.5  | 555.1  | 531.8  | 512.5  | 504.6  | 496.9  | 496.9  |
| 62°   | 593.9  | 586.2  | 582.3  | 562.9  | 543.5  | 520.2  | 500.8  | 481.3  | 469.7  | 461.9  | 465.9  |
| 63°   | 558.9  | 555.1  | 547.3  | 531.8  | 512.5  | 489.2  | 465.9  | 450.3  | 438.6  | 427.0  | 430.9  |
| 64°   | 531.8  | 527.9  | 516.3  | 500.8  | 481.3  | 458.1  | 434.8  | 419.2  | 411.5  | 399.9  | 395.9  |
| 65°   | 496.9  | 493.0  | 489.2  | 469.7  | 450.3  | 427.0  | 407.6  | 392.0  | 380.5  | 372.6  | 364.9  |
| 66°   | 465.9  | 469.7  | 461.9  | 446.5  | 423.2  | 403.7  | 376.6  | 361.0  | 353.3  | 341.6  | 333.9  |
| 67°   | 438.6  | 438.6  | 430.9  | 415.3  | 392.0  | 372.6  | 353.3  | 333.9  | 322.2  | 310.6  | 306.6  |
| 67.5° | 423.2  | 423.2  | 415.3  | 395.9  | 380.5  | 357.2  | 337.7  | 322.2  | 306.6  | 298.9  | 291.2  |
| 68°   | 407.6  | 407.6  | 403.7  | 388.2  | 368.8  | 345.5  | 326.0  | 306.6  | 291.2  | 279.5  | 275.6  |
| 69°   | 380.5  | 384.3  | 376.6  | 361.0  | 341.6  | 318.3  | 298.9  | 283.3  | 267.9  | 256.2  | 248.4  |
| 70°   | 357.2  | 353.3  | 345.5  | 329.9  | 310.6  | 295.0  | 275.6  | 256.2  | 240.7  | 225.2  | 221.3  |
| 71°   | 326.0  | 326.0  | 318.3  | 306.6  | 287.3  | 267.9  | 248.4  | 232.9  | 217.3  | 198.0  | 194.0  |
| 72°   | 302.8  | 302.8  | 295.0  | 279.5  | 264.0  | 244.6  | 225.2  | 205.7  | 194.0  | 174.7  | 166.9  |
| 72.5° | 287.3  | 291.2  | 283.3  | 267.9  | 252.3  | 229.0  | 213.5  | 198.0  | 178.6  | 163.0  | 155.3  |
| 73°   | 279.5  | 275.6  | 271.7  | 256.2  | 236.8  | 221.3  | 201.9  | 186.3  | 166.9  | 151.4  | 143.6  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°  | 75°  | 85°  | 90°  |
|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 77.5° | 174.7 | 174.7 | 170.9 | 155.3 | 139.7 | 124.3 | 108.7 | 93.2 | 77.6 | 62.1 | 54.3 |
| 80°   | 120.3 | 124.3 | 116.4 | 108.7 | 97.0  | 81.6  | 66.0  | 54.3 | 38.8 | 31.0 | 23.3 |
| 82.5° | 77.6  | 77.6  | 73.7  | 66.0  | 58.3  | 46.6  | 38.8  | 27.2 | 19.4 | 15.6 | 11.7 |
| 85°   | 38.8  | 42.7  | 38.8  | 35.0  | 27.2  | 23.3  | 19.4  | 11.7 | 7.7  | 3.9  | 3.9  |
| 87.5° | 15.6  | 15.6  | 15.6  | 11.7  | 11.7  | 7.7   | 3.9   | 3.9  | 3.9  | 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°    | 2864.9 | 2864.9 | 2864.9 | 2864.9 | 2864.9 | 2864.9 | 2864.9 | 2864.9 | 2864.9 | 2864.9 |
| 2.5°  | 2853.2 | 2853.2 | 2845.4 | 2841.6 | 2837.7 | 2833.7 | 2829.9 | 2826.0 | 2826.0 | 2829.9 |
| 5°    | 2829.9 | 2822.1 | 2806.6 | 2802.7 | 2791.1 | 2787.3 | 2779.4 | 2775.6 | 2779.4 | 2775.6 |
| 7.5°  | 2795.0 | 2779.4 | 2760.0 | 2752.3 | 2736.7 | 2729.0 | 2717.3 | 2717.3 | 2709.6 | 2713.4 |
| 10°   | 2748.4 | 2725.1 | 2701.8 | 2686.3 | 2674.7 | 2663.0 | 2655.3 | 2647.4 | 2643.6 | 2643.6 |
| 12.5° | 2690.1 | 2663.0 | 2639.7 | 2616.4 | 2597.0 | 2589.2 | 2573.7 | 2573.7 | 2566.0 | 2562.1 |
| 15°   | 2624.1 | 2589.2 | 2562.1 | 2538.8 | 2523.2 | 2507.7 | 2496.1 | 2488.3 | 2480.5 | 2480.5 |
| 17.5° | 2538.8 | 2507.7 | 2480.5 | 2453.4 | 2430.1 | 2418.4 | 2406.8 | 2395.1 | 2395.1 | 2387.4 |
| 20°   | 2445.5 | 2410.7 | 2387.4 | 2360.2 | 2340.8 | 2321.4 | 2305.8 | 2305.8 | 2298.1 | 2301.9 |
| 22.5° | 2340.8 | 2298.1 | 2274.8 | 2255.4 | 2235.9 | 2220.5 | 2204.9 | 2204.9 | 2201.1 | 2197.2 |
| 25°   | 2224.4 | 2189.4 | 2162.2 | 2138.9 | 2127.2 | 2111.8 | 2107.9 | 2100.1 | 2096.2 | 2096.2 |
| 27.5° | 2100.1 | 2072.9 | 2037.9 | 2026.3 | 2010.8 | 2003.1 | 2003.1 | 1999.2 | 1991.5 | 1995.3 |
| 30°   | 1968.2 | 1937.1 | 1917.6 | 1909.9 | 1894.3 | 1894.3 | 1890.5 | 1882.7 | 1882.7 | 1886.6 |
| 32.5° | 1840.0 | 1808.9 | 1793.5 | 1789.6 | 1774.0 | 1774.0 | 1770.2 | 1774.0 | 1774.0 | 1777.9 |
| 35°   | 1700.3 | 1673.0 | 1669.2 | 1657.6 | 1653.7 | 1653.7 | 1653.7 | 1661.5 | 1669.2 | 1657.6 |
| 37.5° | 1568.3 | 1548.9 | 1537.3 | 1533.3 | 1537.3 | 1537.3 | 1541.1 | 1552.7 | 1548.9 | 1545.0 |
| 40°   | 1432.4 | 1416.9 | 1409.1 | 1409.1 | 1416.9 | 1424.7 | 1424.7 | 1436.3 | 1440.2 | 1436.3 |
| 42.5° | 1296.6 | 1285.0 | 1285.0 | 1288.8 | 1296.6 | 1300.4 | 1312.1 | 1323.7 | 1327.6 | 1331.4 |
| 45°   | 1168.4 | 1168.4 | 1168.4 | 1172.4 | 1176.2 | 1184.0 | 1199.5 | 1211.1 | 1215.0 | 1219.0 |
| 47.5° | 1044.2 | 1040.4 | 1052.0 | 1055.8 | 1067.5 | 1071.4 | 1083.1 | 1098.5 | 1102.4 | 1106.4 |
| 50°   | 927.8  | 935.5  | 939.4  | 951.1  | 958.8  | 958.8  | 974.4  | 982.1  | 993.8  | 993.8  |
| 52.5° | 819.1  | 830.8  | 834.6  | 846.2  | 850.1  | 854.1  | 861.8  | 873.4  | 881.2  | 881.2  |
| 55°   | 722.1  | 725.9  | 733.7  | 737.5  | 749.2  | 753.1  | 760.8  | 764.8  | 776.4  | 772.5  |
| 56°   | 679.3  | 687.1  | 690.9  | 698.8  | 706.5  | 710.4  | 718.2  | 722.1  | 729.8  | 733.7  |
| 57°   | 640.5  | 644.4  | 656.1  | 659.9  | 667.7  | 667.7  | 671.5  | 683.2  | 683.2  | 687.1  |
| 58°   | 601.8  | 609.5  | 613.3  | 617.2  | 624.9  | 628.9  | 636.6  | 640.5  | 644.4  | 640.5  |
| 59°   | 566.8  | 570.6  | 574.5  | 574.5  | 582.3  | 582.3  | 593.9  | 601.8  | 605.6  | 605.6  |
| 60°   | 531.8  | 531.8  | 535.6  | 539.6  | 547.3  | 551.2  | 551.2  | 558.9  | 558.9  | 558.9  |
| 61°   | 496.9  | 496.9  | 500.8  | 504.6  | 508.5  | 508.5  | 516.3  | 516.3  | 520.2  | 524.1  |
| 62°   | 465.9  | 461.9  | 461.9  | 465.9  | 465.9  | 473.6  | 477.5  | 481.3  | 485.2  | 481.3  |
| 63°   | 430.9  | 427.0  | 427.0  | 427.0  | 427.0  | 434.8  | 434.8  | 438.6  | 446.5  | 442.5  |
| 64°   | 392.0  | 392.0  | 392.0  | 392.0  | 395.9  | 395.9  | 403.7  | 407.6  | 411.5  | 415.3  |
| 65°   | 364.9  | 357.2  | 353.3  | 353.3  | 357.2  | 361.0  | 364.9  | 368.8  | 372.6  | 372.6  |
| 66°   | 333.9  | 326.0  | 322.2  | 322.2  | 322.2  | 322.2  | 329.9  | 329.9  | 337.7  | 337.7  |
| 67°   | 298.9  | 291.2  | 287.3  | 283.3  | 283.3  | 283.3  | 295.0  | 291.2  | 291.2  | 291.2  |
| 67.5° | 287.3  | 275.6  | 271.7  | 267.9  | 264.0  | 271.7  | 267.9  | 271.7  | 271.7  | 267.9  |
| 68°   | 271.7  | 264.0  | 256.2  | 248.4  | 248.4  | 248.4  | 252.3  | 256.2  | 252.3  | 248.4  |
| 69°   | 240.7  | 236.8  | 225.2  | 217.3  | 213.5  | 217.3  | 213.5  | 217.3  | 213.5  | 217.3  |
| 70°   | 213.5  | 201.9  | 190.2  | 186.3  | 182.4  | 182.4  | 182.4  | 178.6  | 182.4  | 178.6  |
| 71°   | 186.3  | 174.7  | 163.0  | 155.3  | 151.4  | 151.4  | 147.6  | 151.4  | 147.6  | 151.4  |
| 72°   | 159.2  | 147.6  | 132.0  | 124.3  | 124.3  | 124.3  | 124.3  | 120.3  | 124.3  | 120.3  |
| 72.5° | 147.6  | 132.0  | 120.3  | 112.6  | 108.7  | 108.7  | 108.7  | 108.7  | 104.9  | 108.7  |
| 73°   | 135.9  | 120.3  | 104.9  | 100.9  | 100.9  | 100.9  | 97.0   | 93.2   | 97.0   | 97.0   |





TEST NUMBER: P585280  
 CATALOG NUMBER: HCC8S80D010MW-HM86080930-81RWWH

**CANDELA DISTRIBUTION (continued):**

|       | 95°  | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|------|------|------|------|------|------|------|------|------|------|
| 77.5° | 46.6 | 35.0 | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 | 27.2 | 27.2 |
| 80°   | 19.4 | 15.6 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 |
| 82.5° | 7.7  | 7.7  | 7.7  | 7.7  | 7.7  | 7.7  | 7.7  | 7.7  | 7.7  | 7.7  |
| 85°   | 3.9  | 3.9  | 3.9  | 3.9  | 3.9  | 3.9  | 3.9  | 3.9  | 3.9  | 3.9  |
| 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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Scaled Data Report



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

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Peachtree City, GA 30269



|     |       |       |       |       |       |       |       |       |       |       |       |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 74° | 252.3 | 252.3 | 244.6 | 232.9 | 213.5 | 194.0 | 178.6 | 163.0 | 143.6 | 124.3 | 116.4 |
| 75° | 232.9 | 229.0 | 221.3 | 209.6 | 194.0 | 174.7 | 159.2 | 139.7 | 124.3 | 104.9 | 97.0  |

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|     |       |      |      |      |      |      |      |      |      |      |
|-----|-------|------|------|------|------|------|------|------|------|------|
| 74° | 112.6 | 93.2 | 85.4 | 77.6 | 77.6 | 77.6 | 73.7 | 73.7 | 73.7 | 77.6 |
| 75° | 89.3  | 73.7 | 66.0 | 58.3 | 62.1 | 58.3 | 62.1 | 58.3 | 58.3 | 58.3 |

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(END OF REPORT)