

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: P585252

Luminaire Tested: **HC880D010-HM86080840-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC880D010-HM86080840-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6488.7 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

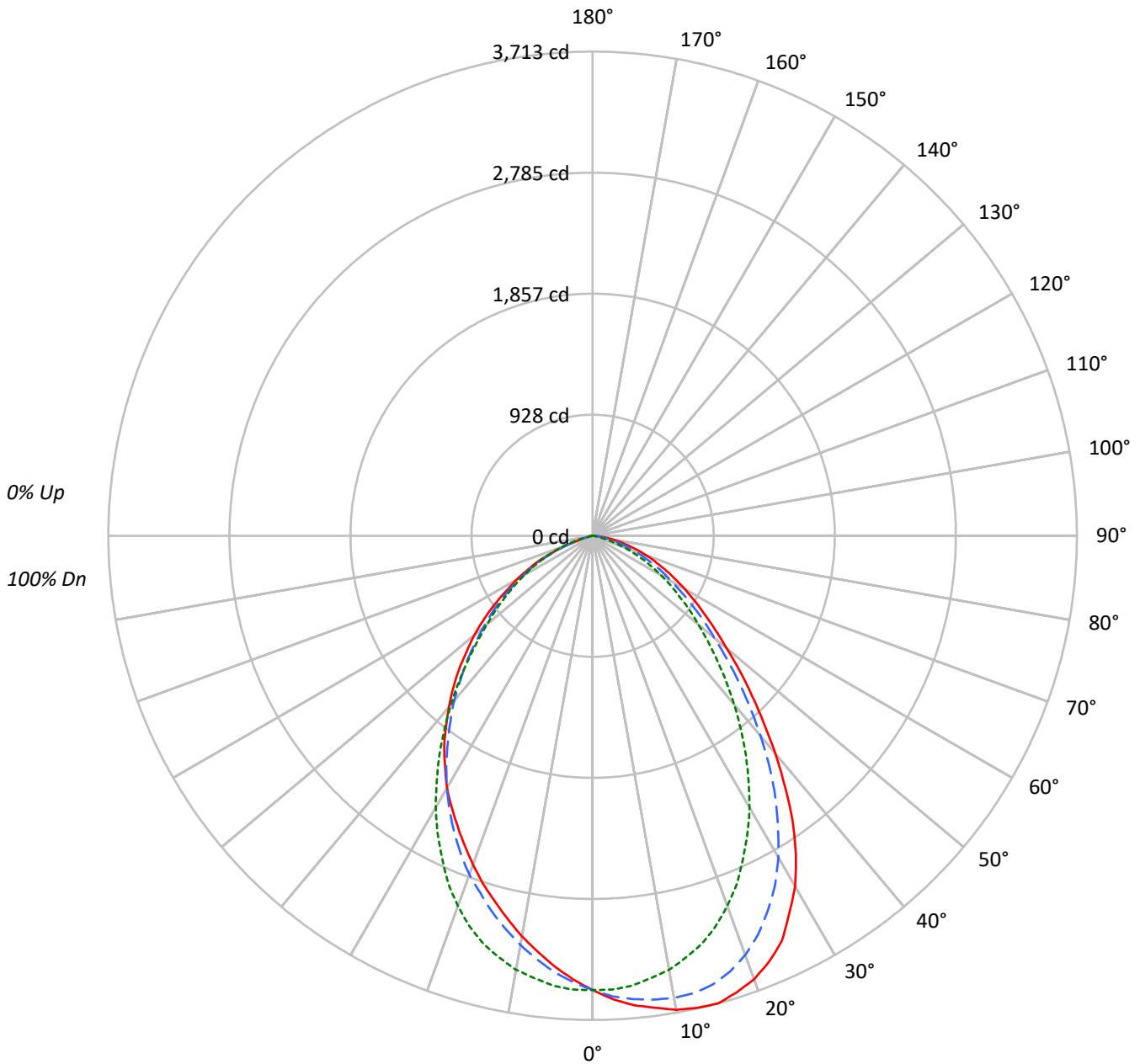
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P585252

CATALOG NUMBER: HC880D010-HM86080840-81WWBB

Luminous Intensity Polar Plot





TEST NUMBER: P585252

CATALOG NUMBER: HC880D010-HM86080840-81WWBB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | | | | | | | | | | | | | | | | | |
| 2 | 103 | 96 | 90 | 86 | 100 | 94 | 89 | 85 | 91 | 86 | 83 | 88 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | | | | | | | | | | | | | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 85 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 71 | 77 | 73 | 69 | 67 | | | | | | | | | | | | | | | | | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 | | | | | | | | | | | | | | | | | | | |
| 5 | 82 | 70 | 63 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | | | | | | | | | | | | | | | | | |
| 6 | 76 | 64 | 56 | 51 | 74 | 63 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 50 | 58 | 53 | 49 | 47 | | | | | | | | | | | | | | | | | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 44 | 43 | | | | | | | | | | | | | | | | | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 44 | 40 | 39 | | | | | | | | | | | | | | | | | | | |
| 9 | 62 | 50 | 43 | 37 | 61 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | | | | | | | | | | | | | | | |
| 10 | 59 | 47 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 107418 | 107418 | 107418 |
| 5° | 111859 | 107185 | 102669 |
| 10° | 115598 | 105816 | 97662 |
| 15° | 118525 | 103396 | 92589 |
| 20° | 118752 | 99106 | 88001 |
| 25° | 116754 | 92835 | 83448 |
| 30° | 110502 | 85659 | 79538 |
| 35° | 100751 | 77035 | 74679 |
| 40° | 87617 | 67912 | 68959 |
| 45° | 75165 | 58816 | 63129 |
| 50° | 64197 | 50707 | 56704 |
| 55° | 56267 | 43670 | 49272 |
| 60° | 50097 | 37250 | 41426 |
| 65° | 44450 | 30390 | 33053 |
| 70° | 39436 | 22531 | 18780 |
| 75° | 32883 | 11783 | 5576 |
| 80° | 25891 | 3694 | 923 |
| 85° | 18433 | 1840 | 0 |



TEST NUMBER: P585252

CATALOG NUMBER: HC880D010-HM86080840-81WWBB

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 328.2 | 5.1 |
| 10°-20° | 920.0 | 14.2 |
| 20°-30° | 1302.2 | 20.1 |
| 30°-40° | 1362.3 | 21.0 |
| 40°-50° | 1136.3 | 17.5 |
| 50°-60° | 805.8 | 12.4 |
| 60°-70° | 464.1 | 7.2 |
| 70°-80° | 149.3 | 2.3 |
| 80°-90° | 20.5 | 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° | 2550.4 | 39.3 |
| 0°-40° | 3912.7 | 60.3 |
| 0°-60° | 5854.7 | 90.2 |
| 0°-90° | 6488.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6488.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 3484 | 3484 | 3484 | 3484 | 3484 | |
| 5° | 3614 | 3567 | 3463 | 3359 | 3317 | 347 |
| 15° | 3713 | 3562 | 3239 | 2984 | 2900 | 1044 |
| 25° | 3432 | 3176 | 2728 | 2510 | 2453 | 1566 |
| 35° | 2676 | 2442 | 2046 | 1937 | 1984 | 1659 |
| 45° | 1724 | 1583 | 1349 | 1364 | 1448 | 1336 |
| 55° | 1047 | 937 | 812 | 854 | 916 | 946 |
| 65° | 609 | 510 | 416 | 416 | 453 | 609 |
| 75° | 276 | 203 | 99 | 47 | 47 | 299 |
| 85° | 52 | 26 | 5 | 0 | 0 | 65 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P585252

CATALOG NUMBER: HC880D010-HM86080840-81WWBB

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 |
| 2.5° | 3556.4 | 3551.2 | 3546.0 | 3551.2 | 3546.0 | 3551.2 | 3546.0 | 3546.0 | 3540.8 | 3535.6 | 3535.6 |
| 5° | 3613.7 | 3608.5 | 3608.5 | 3608.5 | 3603.3 | 3598.0 | 3598.0 | 3592.9 | 3582.5 | 3577.2 | 3566.9 |
| 7.5° | 3650.1 | 3655.3 | 3655.3 | 3655.3 | 3644.9 | 3644.9 | 3634.5 | 3624.1 | 3613.7 | 3603.3 | 3587.7 |
| 10° | 3691.8 | 3691.8 | 3686.6 | 3681.4 | 3670.9 | 3665.8 | 3660.6 | 3650.1 | 3634.5 | 3613.7 | 3598.0 |
| 12.5° | 3707.4 | 3707.4 | 3702.2 | 3691.8 | 3686.6 | 3681.4 | 3676.2 | 3660.6 | 3639.8 | 3613.7 | 3592.9 |
| 15° | 3712.7 | 3702.2 | 3697.0 | 3691.8 | 3681.4 | 3665.8 | 3665.8 | 3644.9 | 3618.8 | 3587.7 | 3561.6 |
| 17.5° | 3670.9 | 3676.2 | 3665.8 | 3655.3 | 3639.8 | 3629.3 | 3613.7 | 3598.0 | 3566.9 | 3530.4 | 3504.3 |
| 20° | 3618.8 | 3613.7 | 3608.5 | 3592.9 | 3572.0 | 3566.9 | 3551.2 | 3525.1 | 3499.1 | 3457.5 | 3421.0 |
| 22.5° | 3535.6 | 3530.4 | 3519.9 | 3509.6 | 3488.8 | 3478.3 | 3462.7 | 3431.5 | 3395.0 | 3353.3 | 3311.7 |
| 25° | 3431.5 | 3421.0 | 3405.4 | 3384.6 | 3368.9 | 3358.6 | 3337.8 | 3306.5 | 3264.9 | 3217.9 | 3176.3 |
| 27.5° | 3264.9 | 3280.5 | 3270.0 | 3238.8 | 3223.1 | 3202.3 | 3197.1 | 3155.5 | 3119.0 | 3072.1 | 3025.3 |
| 30° | 3103.4 | 3103.4 | 3087.8 | 3072.1 | 3046.1 | 3030.5 | 3009.7 | 2978.4 | 2941.9 | 2884.8 | 2848.2 |
| 32.5° | 2900.3 | 2895.1 | 2874.3 | 2869.1 | 2848.2 | 2817.0 | 2811.7 | 2770.1 | 2733.7 | 2692.0 | 2645.2 |
| 35° | 2676.4 | 2666.0 | 2645.2 | 2629.6 | 2619.1 | 2603.6 | 2587.9 | 2551.5 | 2515.0 | 2473.4 | 2442.1 |
| 37.5° | 2421.3 | 2421.3 | 2416.0 | 2390.0 | 2379.7 | 2369.2 | 2353.6 | 2317.1 | 2296.3 | 2254.7 | 2223.4 |
| 40° | 2176.6 | 2171.4 | 2155.8 | 2150.5 | 2140.1 | 2124.5 | 2114.0 | 2093.2 | 2062.0 | 2030.7 | 1999.5 |
| 42.5° | 1937.0 | 1942.2 | 1921.4 | 1926.7 | 1905.7 | 1895.4 | 1890.2 | 1858.9 | 1843.3 | 1812.0 | 1786.0 |
| 45° | 1723.6 | 1718.3 | 1707.9 | 1702.6 | 1692.3 | 1681.8 | 1671.5 | 1655.8 | 1629.8 | 1598.6 | 1582.9 |
| 47.5° | 1525.6 | 1510.0 | 1510.0 | 1504.8 | 1499.7 | 1478.8 | 1473.6 | 1458.0 | 1442.4 | 1411.1 | 1390.3 |
| 50° | 1338.2 | 1338.2 | 1338.2 | 1333.0 | 1317.4 | 1312.2 | 1301.7 | 1286.1 | 1270.6 | 1249.6 | 1218.5 |
| 52.5° | 1187.2 | 1187.2 | 1187.2 | 1182.0 | 1161.2 | 1155.9 | 1150.7 | 1129.9 | 1109.1 | 1093.5 | 1072.6 |
| 55° | 1046.6 | 1051.8 | 1046.6 | 1036.2 | 1020.6 | 1020.6 | 1004.9 | 994.6 | 973.7 | 958.1 | 937.3 |
| 57.5° | 926.8 | 926.8 | 916.5 | 911.2 | 900.8 | 895.6 | 885.2 | 874.7 | 848.7 | 833.1 | 807.1 |
| 60° | 812.3 | 807.1 | 807.1 | 796.6 | 786.3 | 775.8 | 770.6 | 755.0 | 744.6 | 718.6 | 697.7 |
| 62.5° | 708.2 | 708.2 | 697.7 | 697.7 | 676.9 | 676.9 | 671.7 | 656.1 | 640.5 | 614.5 | 604.0 |
| 65° | 609.2 | 609.2 | 604.0 | 598.8 | 583.2 | 578.0 | 572.7 | 557.2 | 541.6 | 525.9 | 510.3 |
| 67.5° | 520.7 | 520.7 | 510.3 | 505.1 | 494.6 | 489.5 | 479.0 | 468.6 | 453.0 | 437.4 | 421.7 |
| 70° | 437.4 | 432.2 | 427.0 | 421.7 | 411.4 | 406.2 | 395.7 | 385.4 | 369.7 | 359.3 | 343.6 |
| 72.5° | 354.1 | 354.1 | 348.9 | 338.5 | 333.3 | 328.0 | 322.8 | 312.5 | 296.8 | 281.2 | 270.7 |
| 75° | 276.0 | 276.0 | 276.0 | 265.5 | 255.2 | 249.9 | 249.9 | 239.6 | 229.1 | 213.5 | 203.1 |
| 77.5° | 213.5 | 208.3 | 203.1 | 203.1 | 192.6 | 187.5 | 182.3 | 177.0 | 161.5 | 156.2 | 145.8 |
| 80° | 145.8 | 151.0 | 145.8 | 140.5 | 135.4 | 130.2 | 130.2 | 119.7 | 114.5 | 104.2 | 93.7 |
| 82.5° | 98.9 | 93.7 | 93.7 | 88.5 | 88.5 | 83.3 | 83.3 | 72.9 | 67.7 | 62.5 | 57.3 |
| 85° | 52.1 | 52.1 | 46.8 | 46.8 | 46.8 | 41.6 | 41.6 | 36.5 | 36.5 | 31.3 | 26.0 |
| 87.5° | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 | 10.5 | 10.5 | 10.5 |
| 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: P585252

CATALOG NUMBER: HC880D010-HM86080840-81WWBB

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 |
| 2.5° | 3530.4 | 3519.9 | 3514.8 | 3514.8 | 3509.6 | 3504.3 | 3499.1 | 3493.9 | 3483.5 | 3483.5 | 3473.1 |
| 5° | 3556.4 | 3546.0 | 3540.8 | 3525.1 | 3514.8 | 3514.8 | 3493.9 | 3488.8 | 3473.1 | 3462.7 | 3452.3 |
| 7.5° | 3577.2 | 3556.4 | 3540.8 | 3525.1 | 3514.8 | 3504.3 | 3483.5 | 3462.7 | 3441.8 | 3421.0 | 3410.6 |
| 10° | 3577.2 | 3556.4 | 3530.4 | 3504.3 | 3493.9 | 3483.5 | 3457.5 | 3426.2 | 3400.2 | 3379.4 | 3353.3 |
| 12.5° | 3566.9 | 3535.6 | 3504.3 | 3483.5 | 3462.7 | 3447.0 | 3415.9 | 3384.6 | 3353.3 | 3311.7 | 3290.8 |
| 15° | 3535.6 | 3493.9 | 3462.7 | 3426.2 | 3410.6 | 3384.6 | 3358.6 | 3311.7 | 3275.2 | 3238.8 | 3212.8 |
| 17.5° | 3473.1 | 3421.0 | 3384.6 | 3348.1 | 3322.1 | 3306.5 | 3264.9 | 3223.1 | 3181.5 | 3139.8 | 3108.6 |
| 20° | 3379.4 | 3332.5 | 3290.8 | 3243.9 | 3223.1 | 3202.3 | 3150.3 | 3108.6 | 3066.9 | 3020.1 | 2988.8 |
| 22.5° | 3264.9 | 3217.9 | 3160.7 | 3124.2 | 3092.9 | 3066.9 | 3020.1 | 2973.2 | 2931.6 | 2889.9 | 2848.2 |
| 25° | 3124.2 | 3077.4 | 3025.3 | 2968.0 | 2947.2 | 2921.1 | 2869.1 | 2822.2 | 2775.4 | 2728.5 | 2692.0 |
| 27.5° | 2973.2 | 2910.8 | 2869.1 | 2806.6 | 2785.8 | 2759.8 | 2702.5 | 2650.4 | 2608.8 | 2572.3 | 2530.7 |
| 30° | 2790.9 | 2744.1 | 2686.8 | 2629.6 | 2608.8 | 2582.7 | 2535.8 | 2488.9 | 2447.3 | 2405.7 | 2364.0 |
| 32.5° | 2593.1 | 2546.2 | 2488.9 | 2447.3 | 2416.0 | 2395.2 | 2348.4 | 2306.8 | 2265.0 | 2223.4 | 2186.9 |
| 35° | 2384.8 | 2332.7 | 2291.1 | 2249.5 | 2223.4 | 2197.4 | 2150.5 | 2114.0 | 2082.8 | 2046.4 | 2009.9 |
| 37.5° | 2171.4 | 2134.8 | 2093.2 | 2046.4 | 2020.3 | 1999.5 | 1963.0 | 1921.4 | 1895.4 | 1864.1 | 1838.1 |
| 40° | 1963.0 | 1921.4 | 1884.9 | 1843.3 | 1822.5 | 1806.8 | 1770.4 | 1739.2 | 1713.1 | 1687.1 | 1671.5 |
| 42.5° | 1749.6 | 1713.1 | 1676.7 | 1650.7 | 1635.0 | 1619.4 | 1593.4 | 1556.9 | 1541.3 | 1515.3 | 1499.7 |
| 45° | 1551.6 | 1520.5 | 1494.5 | 1458.0 | 1447.6 | 1437.1 | 1405.9 | 1379.8 | 1364.3 | 1348.7 | 1338.2 |
| 47.5° | 1364.3 | 1343.5 | 1312.2 | 1291.4 | 1275.7 | 1265.3 | 1244.5 | 1223.6 | 1208.0 | 1197.7 | 1187.2 |
| 50° | 1202.8 | 1176.8 | 1155.9 | 1135.1 | 1124.7 | 1109.1 | 1088.3 | 1077.8 | 1067.5 | 1057.0 | 1057.0 |
| 52.5° | 1051.8 | 1025.8 | 1004.9 | 989.4 | 978.9 | 968.6 | 952.9 | 947.6 | 937.3 | 937.3 | 932.1 |
| 55° | 911.2 | 895.6 | 874.7 | 853.9 | 848.7 | 843.6 | 833.1 | 822.7 | 817.6 | 812.3 | 817.6 |
| 57.5° | 791.5 | 775.8 | 755.0 | 739.4 | 734.2 | 729.0 | 723.7 | 713.4 | 708.2 | 708.2 | 708.2 |
| 60° | 682.1 | 666.6 | 650.9 | 635.3 | 635.3 | 624.8 | 619.6 | 614.5 | 609.2 | 604.0 | 604.0 |
| 62.5° | 583.2 | 567.5 | 551.9 | 541.6 | 536.4 | 531.1 | 520.7 | 515.6 | 510.3 | 510.3 | 505.1 |
| 65° | 494.6 | 473.8 | 468.6 | 453.0 | 447.8 | 442.5 | 437.4 | 427.0 | 421.7 | 416.5 | 411.4 |
| 67.5° | 406.2 | 395.7 | 380.1 | 369.7 | 364.5 | 359.3 | 354.1 | 343.6 | 338.5 | 333.3 | 322.8 |
| 70° | 328.0 | 317.6 | 307.2 | 296.8 | 291.5 | 286.4 | 276.0 | 265.5 | 260.4 | 249.9 | 234.4 |
| 72.5° | 255.2 | 244.7 | 234.4 | 223.9 | 218.7 | 213.5 | 203.1 | 192.6 | 182.3 | 171.8 | 161.5 |
| 75° | 192.6 | 182.3 | 166.6 | 156.2 | 151.0 | 151.0 | 135.4 | 125.0 | 114.5 | 98.9 | 88.5 |
| 77.5° | 135.4 | 119.7 | 114.5 | 104.2 | 98.9 | 88.5 | 78.1 | 67.7 | 57.3 | 52.1 | 41.6 |
| 80° | 88.5 | 78.1 | 67.7 | 62.5 | 57.3 | 52.1 | 46.8 | 36.5 | 26.0 | 20.8 | 15.6 |
| 82.5° | 52.1 | 46.8 | 41.6 | 36.5 | 31.3 | 26.0 | 20.8 | 20.8 | 15.6 | 10.5 | 5.2 |
| 85° | 26.0 | 20.8 | 15.6 | 15.6 | 10.5 | 10.5 | 10.5 | 5.2 | 5.2 | 5.2 | 5.2 |
| 87.5° | 10.5 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 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 | 0.0 |



TEST NUMBER: P585252

CATALOG NUMBER: HC880D010-HM86080840-81WWBB

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 |
| 2.5° | 3467.8 | 3462.7 | 3457.5 | 3452.3 | 3452.3 | 3441.8 | 3441.8 | 3436.7 | 3426.2 | 3421.0 | 3421.0 |
| 5° | 3436.7 | 3421.0 | 3410.6 | 3405.4 | 3400.2 | 3384.6 | 3379.4 | 3368.9 | 3358.6 | 3348.1 | 3342.9 |
| 7.5° | 3389.8 | 3363.8 | 3353.3 | 3348.1 | 3332.5 | 3316.8 | 3306.5 | 3290.8 | 3275.2 | 3259.6 | 3254.4 |
| 10° | 3332.5 | 3306.5 | 3280.5 | 3270.0 | 3254.4 | 3243.9 | 3223.1 | 3202.3 | 3186.8 | 3171.1 | 3155.5 |
| 12.5° | 3259.6 | 3228.4 | 3202.3 | 3191.9 | 3176.3 | 3155.5 | 3124.2 | 3113.9 | 3087.8 | 3077.4 | 3056.6 |
| 15° | 3176.3 | 3139.8 | 3113.9 | 3098.2 | 3082.6 | 3051.3 | 3030.5 | 3009.7 | 2983.7 | 2973.2 | 2952.4 |
| 17.5° | 3072.1 | 3030.5 | 3004.5 | 2988.8 | 2978.4 | 2952.4 | 2921.1 | 2895.1 | 2869.1 | 2858.7 | 2843.0 |
| 20° | 2947.2 | 2921.1 | 2884.8 | 2869.1 | 2858.7 | 2827.4 | 2796.2 | 2785.8 | 2764.9 | 2744.1 | 2728.5 |
| 22.5° | 2806.6 | 2780.6 | 2744.1 | 2728.5 | 2723.3 | 2697.2 | 2671.2 | 2655.6 | 2639.9 | 2624.4 | 2608.8 |
| 25° | 2660.7 | 2629.6 | 2598.3 | 2587.9 | 2577.5 | 2556.7 | 2535.8 | 2525.4 | 2509.7 | 2499.4 | 2488.9 |
| 27.5° | 2504.6 | 2473.4 | 2447.3 | 2431.7 | 2421.3 | 2405.7 | 2395.2 | 2384.8 | 2374.4 | 2364.0 | 2358.7 |
| 30° | 2337.9 | 2306.8 | 2285.9 | 2275.5 | 2265.0 | 2259.8 | 2244.2 | 2239.0 | 2233.8 | 2223.4 | 2228.7 |
| 32.5° | 2171.4 | 2145.3 | 2124.5 | 2108.8 | 2108.8 | 2098.5 | 2093.2 | 2093.2 | 2088.0 | 2088.0 | 2088.0 |
| 35° | 1989.1 | 1973.5 | 1957.8 | 1952.7 | 1947.5 | 1942.2 | 1937.0 | 1942.2 | 1937.0 | 1942.2 | 1947.5 |
| 37.5° | 1822.5 | 1806.8 | 1796.5 | 1791.2 | 1786.0 | 1791.2 | 1786.0 | 1786.0 | 1791.2 | 1801.7 | 1806.8 |
| 40° | 1650.7 | 1640.2 | 1629.8 | 1635.0 | 1629.8 | 1629.8 | 1629.8 | 1645.5 | 1650.7 | 1655.8 | 1661.0 |
| 42.5° | 1489.2 | 1478.8 | 1473.6 | 1473.6 | 1478.8 | 1473.6 | 1484.0 | 1489.2 | 1499.7 | 1515.3 | 1525.6 |
| 45° | 1333.0 | 1327.8 | 1327.8 | 1333.0 | 1327.8 | 1338.2 | 1338.2 | 1348.7 | 1364.3 | 1374.6 | 1385.1 |
| 47.5° | 1187.2 | 1187.2 | 1187.2 | 1192.4 | 1192.4 | 1197.7 | 1208.0 | 1213.3 | 1223.6 | 1234.1 | 1244.5 |
| 50° | 1051.8 | 1057.0 | 1062.3 | 1062.3 | 1062.3 | 1072.6 | 1083.1 | 1088.3 | 1093.5 | 1098.6 | 1114.3 |
| 52.5° | 932.1 | 937.3 | 937.3 | 942.5 | 947.6 | 952.9 | 958.1 | 968.6 | 973.7 | 984.1 | 989.4 |
| 55° | 817.6 | 817.6 | 827.9 | 833.1 | 833.1 | 833.1 | 843.6 | 843.6 | 853.9 | 859.2 | 869.6 |
| 57.5° | 708.2 | 713.4 | 713.4 | 718.6 | 718.6 | 723.7 | 729.0 | 734.2 | 739.4 | 744.6 | 749.8 |
| 60° | 604.0 | 604.0 | 604.0 | 609.2 | 614.5 | 619.6 | 614.5 | 624.8 | 624.8 | 635.3 | 640.5 |
| 62.5° | 505.1 | 510.3 | 510.3 | 510.3 | 510.3 | 510.3 | 510.3 | 515.6 | 520.7 | 525.9 | 531.1 |
| 65° | 411.4 | 411.4 | 411.4 | 406.2 | 411.4 | 406.2 | 411.4 | 416.5 | 416.5 | 421.7 | 427.0 |
| 67.5° | 317.6 | 317.6 | 307.2 | 307.2 | 312.5 | 312.5 | 312.5 | 312.5 | 307.2 | 317.6 | 317.6 |
| 70° | 229.1 | 223.9 | 218.7 | 213.5 | 213.5 | 208.3 | 208.3 | 203.1 | 203.1 | 203.1 | 203.1 |
| 72.5° | 151.0 | 140.5 | 130.2 | 125.0 | 119.7 | 119.7 | 109.4 | 104.2 | 109.4 | 109.4 | 109.4 |
| 75° | 78.1 | 67.7 | 62.5 | 57.3 | 52.1 | 52.1 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 |
| 77.5° | 31.3 | 26.0 | 20.8 | 20.8 | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 |
| 80° | 10.5 | 10.5 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| 82.5° | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| 85° | 5.2 | 0.0 | 0.0 | 5.2 | 0.0 | 5.2 | 5.2 | 5.2 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 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 | 0.0 |



TEST NUMBER: P585252

CATALOG NUMBER: HC880D010-HM86080840-81WWBB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 |
| 2.5° | 3415.9 | 3415.9 | 3410.6 | 3415.9 | 3405.4 | 3410.6 | 3405.4 | 3405.4 |
| 5° | 3337.8 | 3327.3 | 3327.3 | 3327.3 | 3322.1 | 3322.1 | 3316.8 | 3316.8 |
| 7.5° | 3243.9 | 3238.8 | 3233.6 | 3228.4 | 3223.1 | 3217.9 | 3217.9 | 3217.9 |
| 10° | 3150.3 | 3139.8 | 3139.8 | 3134.7 | 3124.2 | 3119.0 | 3119.0 | 3119.0 |
| 12.5° | 3040.9 | 3035.8 | 3030.5 | 3030.5 | 3009.7 | 3014.8 | 3009.7 | 3009.7 |
| 15° | 2936.8 | 2931.6 | 2931.6 | 2915.9 | 2905.6 | 2905.6 | 2905.6 | 2900.3 |
| 17.5° | 2827.4 | 2822.2 | 2817.0 | 2806.6 | 2796.2 | 2796.2 | 2790.9 | 2796.2 |
| 20° | 2712.8 | 2707.7 | 2697.2 | 2697.2 | 2692.0 | 2686.8 | 2676.4 | 2681.7 |
| 22.5° | 2598.3 | 2587.9 | 2582.7 | 2582.7 | 2577.5 | 2577.5 | 2567.1 | 2567.1 |
| 25° | 2478.6 | 2473.4 | 2468.1 | 2473.4 | 2462.9 | 2462.9 | 2452.6 | 2452.6 |
| 27.5° | 2353.6 | 2348.4 | 2348.4 | 2348.4 | 2343.2 | 2348.4 | 2343.2 | 2343.2 |
| 30° | 2228.7 | 2228.7 | 2223.4 | 2223.4 | 2228.7 | 2223.4 | 2228.7 | 2233.8 |
| 32.5° | 2093.2 | 2093.2 | 2098.5 | 2098.5 | 2103.7 | 2103.7 | 2103.7 | 2103.7 |
| 35° | 1952.7 | 1963.0 | 1963.0 | 1968.3 | 1973.5 | 1978.7 | 1978.7 | 1983.8 |
| 37.5° | 1822.5 | 1827.7 | 1832.8 | 1838.1 | 1848.5 | 1848.5 | 1848.5 | 1848.5 |
| 40° | 1681.8 | 1687.1 | 1697.5 | 1692.3 | 1713.1 | 1718.3 | 1713.1 | 1713.1 |
| 42.5° | 1536.1 | 1546.5 | 1551.6 | 1562.1 | 1567.3 | 1577.7 | 1582.9 | 1582.9 |
| 45° | 1400.6 | 1405.9 | 1416.3 | 1426.7 | 1431.9 | 1447.6 | 1447.6 | 1447.6 |
| 47.5° | 1260.1 | 1270.6 | 1275.7 | 1286.1 | 1291.4 | 1306.9 | 1312.2 | 1306.9 |
| 50° | 1124.7 | 1135.1 | 1145.6 | 1145.6 | 1161.2 | 1166.4 | 1176.8 | 1182.0 |
| 52.5° | 994.6 | 999.7 | 1010.2 | 1015.4 | 1025.8 | 1036.2 | 1041.4 | 1046.6 |
| 55° | 869.6 | 874.7 | 885.2 | 885.2 | 900.8 | 906.0 | 916.5 | 916.5 |
| 57.5° | 755.0 | 760.2 | 770.6 | 765.5 | 775.8 | 786.3 | 786.3 | 781.1 |
| 60° | 645.6 | 645.6 | 645.6 | 656.1 | 661.3 | 666.6 | 671.7 | 671.7 |
| 62.5° | 531.1 | 541.6 | 546.7 | 546.7 | 551.9 | 557.2 | 557.2 | 551.9 |
| 65° | 427.0 | 437.4 | 442.5 | 442.5 | 447.8 | 447.8 | 447.8 | 453.0 |
| 67.5° | 322.8 | 322.8 | 322.8 | 328.0 | 322.8 | 322.8 | 322.8 | 322.8 |
| 70° | 203.1 | 203.1 | 203.1 | 203.1 | 197.8 | 203.1 | 203.1 | 208.3 |
| 72.5° | 109.4 | 109.4 | 109.4 | 109.4 | 109.4 | 109.4 | 109.4 | 109.4 |
| 75° | 46.8 | 46.8 | 46.8 | 52.1 | 46.8 | 46.8 | 46.8 | 46.8 |
| 77.5° | 20.8 | 15.6 | 20.8 | 20.8 | 15.6 | 15.6 | 15.6 | 15.6 |
| 80° | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| 82.5° | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| 85° | 0.0 | 5.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 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 |



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













(END OF REPORT)