

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: P583829

Luminaire Tested: **HC810D010-HM80520940-81WWW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC810D010-HM80520940-81WWW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1035.6 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.04 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

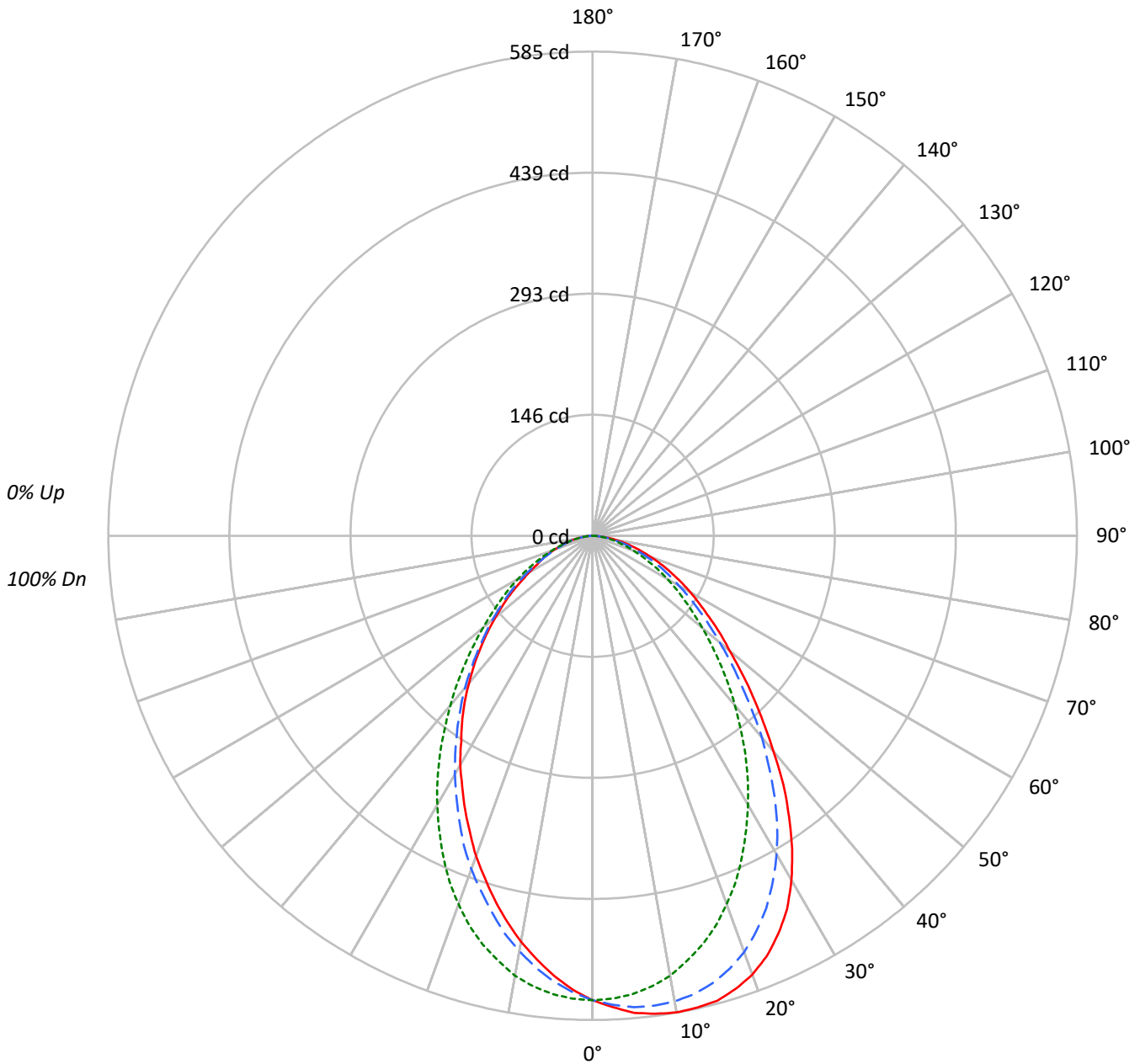
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583829

CATALOG NUMBER: HC810D010-HM80520940-81WWW

Luminous Intensity Polar Plot





TEST NUMBER: P583829

CATALOG NUMBER: HC810D010-HM80520940-81WWW

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 | 110 | 106 | 103 | 99 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 | | | | 87 | | | | |
| 2 | 102 | 95 | 89 | 84 | 99 | 93 | 88 | 83 | 90 | 85 | 81 | 86 | 83 | 79 | 83 | 80 | 78 | 76 | | | | 76 | | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 83 | 77 | 71 | 81 | 75 | 70 | 78 | 73 | 69 | 75 | 71 | 68 | 66 | | | | 66 | | | | |
| 4 | 87 | 76 | 69 | 63 | 85 | 75 | 68 | 62 | 73 | 67 | 62 | 71 | 65 | 61 | 68 | 64 | 60 | 58 | | | | 58 | | | | |
| 5 | 81 | 69 | 61 | 55 | 79 | 68 | 61 | 55 | 66 | 60 | 54 | 64 | 59 | 54 | 63 | 57 | 53 | 51 | | | | 51 | | | | |
| 6 | 75 | 63 | 55 | 49 | 73 | 62 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 57 | 52 | 48 | 46 | | | | 46 | | | | |
| 7 | 70 | 58 | 50 | 44 | 69 | 57 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 43 | 41 | | | | 41 | | | | |
| 8 | 66 | 53 | 46 | 40 | 64 | 53 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 39 | 38 | | | | 38 | | | | |
| 9 | 62 | 49 | 42 | 37 | 60 | 49 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 34 | | | | 34 | | | | |
| 10 | 58 | 46 | 39 | 34 | 57 | 45 | 38 | 34 | 44 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 32 | | | | 32 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 17302 | 17302 | 17302 |
| 5° | 17910 | 17204 | 16520 |
| 10° | 18311 | 16902 | 15593 |
| 15° | 18567 | 16336 | 14557 |
| 20° | 18514 | 15541 | 13517 |
| 25° | 18057 | 14532 | 12409 |
| 30° | 17105 | 13367 | 11383 |
| 35° | 15562 | 12095 | 10348 |
| 40° | 13670 | 10756 | 9347 |
| 45° | 11918 | 9463 | 8334 |
| 50° | 10372 | 8290 | 7340 |
| 55° | 9252 | 7285 | 6387 |
| 60° | 8406 | 6383 | 5446 |
| 65° | 7552 | 5553 | 4947 |
| 70° | 6726 | 4733 | 4463 |
| 75° | 5898 | 3991 | 3813 |
| 80° | 4990 | 3250 | 3374 |
| 85° | 3786 | 2441 | 2689 |



TEST NUMBER: P583829

CATALOG NUMBER: HC810D010-HM80520940-81WWW

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 52.6 | 5.1 |
| 10°-20° | 144.8 | 14.0 |
| 20°-30° | 201.0 | 19.4 |
| 30°-40° | 207.8 | 20.1 |
| 40°-50° | 174.0 | 16.8 |
| 50°-60° | 126.3 | 12.2 |
| 60°-70° | 79.7 | 7.7 |
| 70°-80° | 39.5 | 3.8 |
| 80°-90° | 9.8 | 0.9 |
| 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° | 398.4 | 38.5 |
| 0°-40° | 606.2 | 58.5 |
| 0°-60° | 906.6 | 87.5 |
| 0°-90° | 1035.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1035.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 561 | 561 | 561 | 561 | 561 | |
| 5° | 579 | 572 | 556 | 540 | 534 | 55 |
| 15° | 582 | 560 | 512 | 470 | 456 | 164 |
| 25° | 531 | 496 | 427 | 381 | 365 | 243 |
| 35° | 413 | 383 | 321 | 285 | 275 | 257 |
| 45° | 273 | 254 | 217 | 196 | 191 | 211 |
| 55° | 172 | 157 | 136 | 124 | 119 | 155 |
| 65° | 104 | 91 | 76 | 67 | 68 | 103 |
| 75° | 50 | 41 | 34 | 32 | 32 | 53 |
| 85° | 11 | 8 | 7 | 8 | 8 | 13 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P583829

CATALOG NUMBER: HC810D010-HM80520940-81WWW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 |
| 2.5° | 570.2 | 570.2 | 571.1 | 570.2 | 570.2 | 570.2 | 569.5 | 569.5 | 568.8 | 568.8 | 567.2 |
| 5° | 578.6 | 577.1 | 578.6 | 577.1 | 577.1 | 577.1 | 576.4 | 574.8 | 574.1 | 572.5 | 571.8 |
| 7.5° | 582.5 | 581.6 | 581.6 | 580.9 | 580.9 | 580.2 | 579.4 | 578.6 | 575.6 | 574.8 | 572.5 |
| 10° | 584.8 | 583.9 | 583.9 | 583.2 | 581.6 | 581.6 | 580.2 | 579.4 | 575.6 | 574.1 | 571.1 |
| 12.5° | 583.9 | 583.9 | 583.9 | 583.2 | 580.9 | 580.2 | 578.6 | 576.4 | 573.4 | 570.2 | 567.2 |
| 15° | 581.6 | 581.6 | 580.2 | 579.4 | 577.1 | 575.6 | 574.8 | 571.1 | 567.9 | 564.2 | 559.7 |
| 17.5° | 574.1 | 574.1 | 573.4 | 571.8 | 569.5 | 567.9 | 566.5 | 562.7 | 559.7 | 553.5 | 549.0 |
| 20° | 564.2 | 563.4 | 562.7 | 560.4 | 558.1 | 557.4 | 555.1 | 549.7 | 545.9 | 541.4 | 535.3 |
| 22.5° | 549.7 | 549.0 | 548.2 | 546.7 | 542.8 | 541.4 | 539.8 | 536.0 | 529.1 | 524.6 | 517.0 |
| 25° | 530.7 | 530.7 | 529.1 | 526.8 | 523.1 | 521.5 | 519.3 | 515.4 | 509.4 | 502.6 | 496.4 |
| 27.5° | 508.6 | 507.8 | 505.6 | 504.0 | 501.0 | 498.7 | 494.9 | 490.3 | 484.3 | 478.9 | 471.3 |
| 30° | 480.4 | 480.4 | 478.9 | 476.6 | 472.7 | 471.3 | 468.2 | 462.9 | 456.8 | 449.9 | 444.6 |
| 32.5° | 448.5 | 448.5 | 446.2 | 444.6 | 442.3 | 438.5 | 437.8 | 431.6 | 426.3 | 421.1 | 414.9 |
| 35° | 413.4 | 414.2 | 412.6 | 409.6 | 405.8 | 405.8 | 404.2 | 398.9 | 392.8 | 387.5 | 383.0 |
| 37.5° | 378.4 | 376.1 | 375.4 | 373.8 | 371.5 | 368.5 | 367.0 | 364.7 | 359.4 | 355.6 | 348.7 |
| 40° | 339.6 | 340.3 | 338.8 | 337.3 | 336.6 | 334.3 | 333.4 | 329.7 | 325.9 | 321.3 | 318.3 |
| 42.5° | 304.6 | 304.6 | 304.6 | 303.0 | 301.5 | 299.2 | 298.5 | 296.2 | 291.6 | 288.6 | 284.0 |
| 45° | 273.3 | 271.1 | 271.1 | 270.3 | 269.5 | 268.0 | 265.8 | 264.2 | 261.2 | 258.9 | 253.5 |
| 47.5° | 242.9 | 243.6 | 242.9 | 242.1 | 239.8 | 239.1 | 238.4 | 235.2 | 232.2 | 229.9 | 226.1 |
| 50° | 216.2 | 217.8 | 216.2 | 216.2 | 214.7 | 214.0 | 212.4 | 210.1 | 207.8 | 204.1 | 200.3 |
| 52.5° | 194.1 | 194.1 | 193.4 | 192.7 | 190.4 | 188.8 | 188.1 | 187.3 | 183.5 | 180.4 | 177.4 |
| 55° | 172.1 | 172.8 | 172.8 | 170.6 | 169.8 | 168.3 | 167.6 | 165.3 | 163.7 | 159.1 | 156.9 |
| 57.5° | 153.0 | 152.3 | 153.0 | 151.5 | 150.0 | 148.4 | 147.7 | 146.2 | 143.9 | 140.9 | 137.7 |
| 60° | 136.3 | 134.7 | 134.7 | 134.0 | 132.5 | 131.7 | 130.2 | 127.9 | 125.6 | 122.6 | 120.3 |
| 62.5° | 119.5 | 118.8 | 118.0 | 117.2 | 115.8 | 114.9 | 114.2 | 111.9 | 109.6 | 107.3 | 105.1 |
| 65° | 103.5 | 103.5 | 102.8 | 101.2 | 100.5 | 99.8 | 98.9 | 97.5 | 94.4 | 92.9 | 90.6 |
| 67.5° | 89.1 | 88.3 | 88.3 | 86.8 | 85.2 | 84.5 | 84.5 | 82.9 | 80.7 | 78.4 | 76.9 |
| 70° | 74.6 | 75.4 | 74.6 | 73.8 | 72.4 | 72.4 | 70.8 | 70.1 | 67.0 | 66.2 | 63.9 |
| 72.5° | 61.7 | 61.7 | 60.9 | 60.9 | 59.4 | 58.7 | 58.7 | 57.1 | 55.5 | 54.1 | 52.5 |
| 75° | 49.5 | 49.5 | 49.5 | 48.7 | 48.0 | 46.4 | 46.4 | 45.7 | 44.1 | 42.7 | 41.1 |
| 77.5° | 38.8 | 38.1 | 38.1 | 37.3 | 36.5 | 35.8 | 35.8 | 35.0 | 33.5 | 32.7 | 31.3 |
| 80° | 28.1 | 27.4 | 27.4 | 27.4 | 25.8 | 26.7 | 25.8 | 25.1 | 24.4 | 23.6 | 22.8 |
| 82.5° | 18.3 | 19.0 | 19.0 | 18.3 | 17.5 | 17.5 | 17.5 | 16.7 | 16.7 | 16.0 | 15.3 |
| 85° | 10.7 | 10.7 | 10.7 | 10.7 | 9.9 | 9.9 | 9.9 | 9.1 | 9.1 | 9.1 | 8.4 |
| 87.5° | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| 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: P583829

CATALOG NUMBER: HC810D010-HM80520940-81WWW

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 |
| 2.5° | 567.2 | 565.7 | 564.9 | 564.2 | 564.2 | 563.4 | 562.7 | 561.1 | 561.1 | 559.7 | 558.8 |
| 5° | 570.2 | 567.9 | 566.5 | 564.9 | 564.2 | 562.7 | 561.1 | 558.8 | 558.1 | 555.8 | 553.5 |
| 7.5° | 571.1 | 567.2 | 565.7 | 562.7 | 561.1 | 559.7 | 556.5 | 554.2 | 551.2 | 549.0 | 545.9 |
| 10° | 567.9 | 564.9 | 561.1 | 557.4 | 556.5 | 554.2 | 549.7 | 546.7 | 542.8 | 539.8 | 535.3 |
| 12.5° | 563.4 | 558.8 | 555.1 | 550.5 | 548.2 | 545.9 | 541.4 | 536.8 | 531.4 | 526.1 | 521.5 |
| 15° | 555.8 | 550.5 | 545.1 | 539.8 | 536.8 | 534.5 | 529.1 | 523.8 | 518.5 | 511.7 | 507.1 |
| 17.5° | 544.4 | 538.3 | 533.0 | 526.1 | 523.1 | 520.8 | 514.0 | 507.8 | 501.0 | 494.1 | 489.6 |
| 20° | 530.0 | 522.3 | 516.3 | 508.6 | 506.3 | 502.6 | 495.7 | 488.9 | 481.2 | 473.6 | 468.2 |
| 22.5° | 510.8 | 503.3 | 496.4 | 488.9 | 485.0 | 481.2 | 474.3 | 465.9 | 458.3 | 452.2 | 446.9 |
| 25° | 488.9 | 482.0 | 473.6 | 466.7 | 462.2 | 457.6 | 449.9 | 443.1 | 436.2 | 427.1 | 421.8 |
| 27.5° | 464.5 | 456.0 | 449.9 | 440.8 | 436.2 | 433.2 | 424.8 | 415.7 | 409.6 | 401.2 | 395.1 |
| 30° | 437.0 | 429.4 | 422.5 | 413.4 | 408.8 | 405.8 | 398.2 | 389.8 | 383.7 | 375.4 | 369.3 |
| 32.5° | 408.1 | 399.7 | 391.4 | 385.2 | 380.0 | 376.8 | 368.5 | 363.1 | 355.6 | 348.7 | 341.8 |
| 35° | 376.8 | 368.5 | 362.4 | 354.0 | 351.0 | 348.0 | 341.1 | 334.3 | 327.4 | 321.3 | 316.0 |
| 37.5° | 343.4 | 337.3 | 330.4 | 324.3 | 322.0 | 319.0 | 310.6 | 304.6 | 299.2 | 293.2 | 288.6 |
| 40° | 310.6 | 305.3 | 300.7 | 294.6 | 290.9 | 288.6 | 282.5 | 277.2 | 271.1 | 267.2 | 262.6 |
| 42.5° | 280.9 | 274.9 | 270.3 | 265.8 | 261.9 | 259.6 | 254.3 | 250.5 | 245.9 | 242.1 | 236.8 |
| 45° | 249.8 | 246.7 | 241.4 | 237.5 | 235.2 | 232.2 | 228.4 | 223.8 | 220.1 | 217.0 | 213.2 |
| 47.5° | 222.4 | 219.2 | 215.5 | 211.0 | 209.4 | 207.1 | 203.3 | 200.3 | 197.2 | 194.1 | 190.4 |
| 50° | 197.2 | 193.4 | 190.4 | 187.3 | 185.8 | 183.5 | 179.7 | 178.1 | 175.9 | 172.8 | 170.6 |
| 52.5° | 174.4 | 171.3 | 168.3 | 164.4 | 163.7 | 162.1 | 159.9 | 156.9 | 154.6 | 153.0 | 151.5 |
| 55° | 153.7 | 150.7 | 148.4 | 145.4 | 144.6 | 143.2 | 140.0 | 138.6 | 137.0 | 135.5 | 134.0 |
| 57.5° | 135.5 | 132.5 | 129.5 | 127.9 | 126.3 | 124.9 | 124.0 | 121.8 | 120.3 | 119.5 | 118.0 |
| 60° | 118.8 | 115.8 | 113.5 | 111.2 | 110.3 | 109.6 | 108.1 | 106.6 | 105.1 | 103.5 | 102.8 |
| 62.5° | 102.8 | 99.8 | 98.2 | 96.6 | 95.2 | 95.2 | 93.6 | 92.1 | 90.6 | 89.8 | 88.3 |
| 65° | 88.3 | 86.8 | 84.5 | 82.2 | 81.5 | 81.5 | 79.2 | 78.4 | 77.6 | 76.1 | 74.6 |
| 67.5° | 74.6 | 73.1 | 70.8 | 70.1 | 69.2 | 68.5 | 67.8 | 66.2 | 64.7 | 63.9 | 62.4 |
| 70° | 62.4 | 60.9 | 59.4 | 58.7 | 57.8 | 57.1 | 55.5 | 54.8 | 53.2 | 52.5 | 51.8 |
| 72.5° | 50.2 | 49.5 | 48.0 | 47.2 | 46.4 | 45.7 | 45.0 | 44.1 | 42.7 | 41.8 | 41.1 |
| 75° | 40.4 | 39.5 | 38.1 | 37.3 | 36.5 | 36.5 | 35.8 | 34.3 | 33.5 | 33.5 | 32.7 |
| 77.5° | 30.4 | 29.7 | 29.0 | 28.1 | 27.4 | 27.4 | 26.7 | 25.8 | 25.1 | 25.1 | 24.4 |
| 80° | 22.1 | 21.3 | 20.6 | 20.6 | 20.6 | 19.8 | 19.0 | 19.0 | 18.3 | 18.3 | 17.5 |
| 82.5° | 14.4 | 14.4 | 13.7 | 13.7 | 13.7 | 13.0 | 13.0 | 12.1 | 12.1 | 12.1 | 12.1 |
| 85° | 8.4 | 8.4 | 8.4 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 6.9 | 7.6 |
| 87.5° | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.0 | 3.0 | 3.0 |
| 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: P583829

CATALOG NUMBER: HC810D010-HM80520940-81WWW

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 |
| 2.5° | 558.1 | 557.4 | 555.8 | 555.8 | 554.2 | 554.2 | 553.5 | 552.8 | 552.0 | 551.2 | 550.5 |
| 5° | 552.8 | 549.7 | 548.2 | 547.4 | 545.9 | 545.1 | 542.8 | 541.4 | 540.5 | 539.1 | 537.5 |
| 7.5° | 542.8 | 539.8 | 536.8 | 536.0 | 535.3 | 532.2 | 530.0 | 527.7 | 526.1 | 524.6 | 523.1 |
| 10° | 531.4 | 528.4 | 524.6 | 523.1 | 521.5 | 517.7 | 514.7 | 512.4 | 509.4 | 506.3 | 505.6 |
| 12.5° | 517.7 | 513.1 | 508.6 | 507.1 | 504.8 | 501.0 | 498.0 | 494.1 | 491.9 | 488.0 | 487.3 |
| 15° | 501.7 | 496.4 | 492.6 | 488.9 | 487.3 | 483.4 | 478.2 | 475.0 | 470.5 | 469.0 | 465.2 |
| 17.5° | 482.7 | 477.4 | 472.0 | 470.5 | 468.2 | 462.9 | 457.6 | 453.8 | 449.2 | 446.9 | 444.6 |
| 20° | 462.9 | 456.0 | 450.8 | 449.2 | 446.2 | 441.6 | 436.2 | 432.5 | 428.6 | 424.1 | 421.8 |
| 22.5° | 440.1 | 432.5 | 427.9 | 424.1 | 423.3 | 417.9 | 411.9 | 408.8 | 405.8 | 401.9 | 398.9 |
| 25° | 414.9 | 408.1 | 402.8 | 399.7 | 398.2 | 393.7 | 389.1 | 385.2 | 380.7 | 378.4 | 374.5 |
| 27.5° | 389.1 | 384.5 | 377.7 | 374.5 | 372.3 | 368.5 | 363.1 | 360.8 | 356.3 | 353.3 | 351.0 |
| 30° | 364.0 | 357.1 | 353.3 | 349.4 | 347.1 | 343.4 | 338.8 | 336.6 | 332.7 | 329.7 | 327.4 |
| 32.5° | 336.6 | 332.0 | 326.6 | 325.1 | 322.0 | 318.3 | 315.2 | 311.4 | 308.3 | 305.3 | 304.6 |
| 35° | 311.4 | 305.3 | 300.0 | 298.5 | 296.2 | 292.3 | 290.9 | 288.6 | 284.8 | 284.0 | 280.9 |
| 37.5° | 284.0 | 280.9 | 274.9 | 272.6 | 271.8 | 268.8 | 265.8 | 264.2 | 261.9 | 259.6 | 258.9 |
| 40° | 258.1 | 254.3 | 251.2 | 248.9 | 247.5 | 245.2 | 242.1 | 241.4 | 239.8 | 236.8 | 236.1 |
| 42.5° | 233.8 | 229.9 | 226.9 | 226.1 | 223.8 | 221.5 | 220.1 | 217.8 | 217.0 | 216.2 | 214.7 |
| 45° | 210.1 | 207.8 | 204.8 | 204.1 | 203.3 | 200.3 | 198.7 | 197.2 | 195.7 | 195.0 | 193.4 |
| 47.5° | 188.8 | 186.6 | 184.3 | 183.5 | 182.0 | 181.3 | 179.0 | 178.1 | 175.9 | 175.1 | 174.4 |
| 50° | 168.3 | 166.7 | 165.3 | 164.4 | 163.0 | 162.1 | 160.7 | 159.1 | 157.6 | 156.9 | 156.0 |
| 52.5° | 150.0 | 148.4 | 146.9 | 146.2 | 145.4 | 143.9 | 142.3 | 140.9 | 140.0 | 139.3 | 138.6 |
| 55° | 132.5 | 130.9 | 130.2 | 129.5 | 128.6 | 127.9 | 125.6 | 124.9 | 124.0 | 123.3 | 121.8 |
| 57.5° | 116.5 | 114.9 | 113.5 | 113.5 | 112.6 | 111.9 | 110.3 | 108.9 | 108.9 | 107.3 | 105.8 |
| 60° | 102.0 | 100.5 | 98.9 | 98.2 | 97.5 | 95.9 | 95.2 | 94.4 | 93.6 | 92.9 | 91.4 |
| 62.5° | 86.8 | 86.1 | 84.5 | 84.5 | 82.9 | 82.2 | 81.5 | 80.7 | 79.9 | 78.4 | 77.6 |
| 65° | 73.8 | 73.1 | 71.5 | 70.8 | 70.8 | 70.1 | 68.5 | 67.8 | 67.0 | 67.0 | 66.2 |
| 67.5° | 61.7 | 60.9 | 59.4 | 58.7 | 58.7 | 57.8 | 57.1 | 57.1 | 56.4 | 55.5 | 56.4 |
| 70° | 51.0 | 49.5 | 49.5 | 48.7 | 48.7 | 48.0 | 47.2 | 47.2 | 47.2 | 48.0 | 48.0 |
| 72.5° | 40.4 | 39.5 | 38.8 | 38.8 | 38.8 | 38.8 | 38.1 | 38.1 | 38.8 | 39.5 | 39.5 |
| 75° | 32.0 | 31.3 | 31.3 | 31.3 | 30.4 | 30.4 | 31.3 | 31.3 | 32.0 | 32.0 | 32.0 |
| 77.5° | 23.6 | 23.6 | 23.6 | 23.6 | 23.6 | 23.6 | 24.4 | 24.4 | 25.1 | 25.1 | 25.1 |
| 80° | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 | 18.3 | 18.3 | 18.3 | 18.3 | 18.3 | 19.0 |
| 82.5° | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 | 13.0 | 13.0 | 13.0 | 13.0 |
| 85° | 6.9 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 |
| 87.5° | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| 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: P583829

CATALOG NUMBER: HC810D010-HM80520940-81WWW

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 |
| 2.5° | 549.7 | 549.7 | 549.7 | 550.5 | 549.0 | 549.0 | 549.0 | 549.0 |
| 5° | 536.8 | 536.0 | 535.3 | 536.0 | 534.5 | 534.5 | 533.7 | 533.7 |
| 7.5° | 520.8 | 520.0 | 519.3 | 519.3 | 517.7 | 517.7 | 517.0 | 516.3 |
| 10° | 503.3 | 501.7 | 502.6 | 501.0 | 500.3 | 499.4 | 498.7 | 498.0 |
| 12.5° | 484.3 | 482.7 | 482.0 | 480.4 | 478.9 | 478.2 | 478.9 | 477.4 |
| 15° | 463.6 | 461.3 | 460.6 | 459.0 | 457.6 | 456.8 | 456.8 | 456.0 |
| 17.5° | 440.8 | 439.3 | 438.5 | 437.0 | 436.2 | 434.8 | 433.9 | 433.2 |
| 20° | 419.5 | 415.7 | 416.5 | 414.9 | 414.2 | 411.1 | 411.1 | 411.9 |
| 22.5° | 395.9 | 393.7 | 392.1 | 390.5 | 389.8 | 388.2 | 388.2 | 387.5 |
| 25° | 372.3 | 370.0 | 369.3 | 367.7 | 367.0 | 365.4 | 364.7 | 364.7 |
| 27.5° | 349.4 | 346.4 | 346.4 | 344.9 | 343.4 | 342.6 | 341.8 | 341.1 |
| 30° | 325.1 | 322.9 | 322.0 | 322.0 | 321.3 | 321.3 | 319.0 | 319.7 |
| 32.5° | 302.3 | 300.7 | 300.0 | 298.5 | 298.5 | 297.7 | 297.7 | 295.5 |
| 35° | 279.5 | 277.2 | 277.9 | 276.3 | 275.6 | 274.9 | 275.6 | 274.9 |
| 37.5° | 257.3 | 255.8 | 255.8 | 254.3 | 254.3 | 253.5 | 252.8 | 254.3 |
| 40° | 235.2 | 234.5 | 233.8 | 232.9 | 233.8 | 232.9 | 231.5 | 232.2 |
| 42.5° | 213.2 | 213.2 | 212.4 | 212.4 | 211.7 | 211.7 | 211.7 | 211.7 |
| 45° | 193.4 | 192.7 | 192.7 | 191.8 | 191.8 | 191.8 | 191.8 | 191.1 |
| 47.5° | 173.6 | 172.8 | 172.8 | 172.8 | 172.1 | 172.1 | 171.3 | 172.1 |
| 50° | 154.6 | 154.6 | 153.7 | 153.7 | 154.6 | 153.7 | 153.0 | 153.0 |
| 52.5° | 137.0 | 137.0 | 136.3 | 136.3 | 135.5 | 134.7 | 135.5 | 135.5 |
| 55° | 121.0 | 120.3 | 119.5 | 119.5 | 118.8 | 118.0 | 118.0 | 118.8 |
| 57.5° | 105.8 | 105.1 | 104.3 | 104.3 | 102.8 | 102.0 | 102.0 | 102.0 |
| 60° | 91.4 | 89.8 | 89.8 | 89.1 | 89.1 | 88.3 | 88.3 | 88.3 |
| 62.5° | 77.6 | 76.9 | 76.9 | 76.9 | 76.9 | 76.1 | 76.1 | 76.1 |
| 65° | 66.2 | 66.2 | 66.2 | 67.0 | 67.0 | 67.8 | 67.8 | 67.8 |
| 67.5° | 57.1 | 57.8 | 57.8 | 57.8 | 58.7 | 58.7 | 58.7 | 57.8 |
| 70° | 48.7 | 48.7 | 48.7 | 49.5 | 49.5 | 49.5 | 49.5 | 49.5 |
| 72.5° | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 |
| 75° | 32.0 | 32.7 | 32.7 | 32.7 | 32.0 | 32.7 | 32.7 | 32.0 |
| 77.5° | 25.1 | 25.1 | 25.1 | 25.1 | 25.1 | 25.1 | 25.1 | 25.1 |
| 80° | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 |
| 82.5° | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 |
| 85° | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 |
| 87.5° | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670245859 / DESKTOP-HRDQ47P





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













(END OF REPORT)