

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: P593498

Luminaire Tested: **HC807D010-HM80520850-81WWWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC807D010-HM80520850-81WWWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 985.2 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

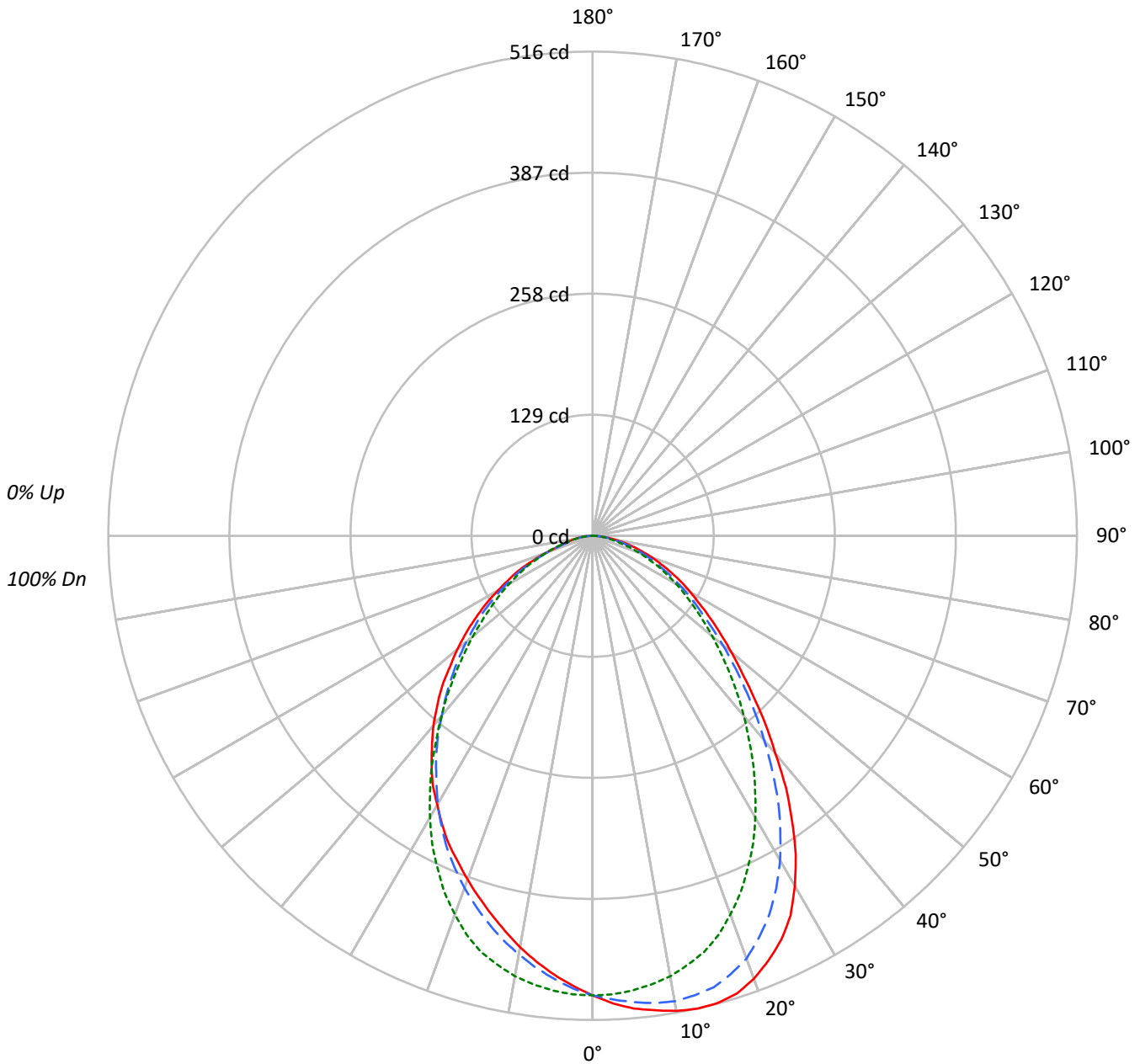
Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P593498

CATALOG NUMBER: HC807D010-HM80520850-81WWWB

Luminous Intensity Polar Plot





TEST NUMBER: P593498

CATALOG NUMBER: HC807D010-HM80520850-81WWWB

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 | 110 | 106 | 103 | 99 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 92 | 91 | 89 | 87 | | | | | | | | |
| 2 | 102 | 94 | 88 | 83 | 99 | 93 | 87 | 82 | 89 | 85 | 81 | 86 | 82 | 79 | 83 | 80 | 77 | 75 | | | | | | | | |
| 3 | 94 | 84 | 77 | 71 | 91 | 83 | 76 | 71 | 80 | 74 | 69 | 77 | 72 | 68 | 75 | 71 | 67 | 65 | | | | | | | | |
| 4 | 87 | 76 | 68 | 62 | 84 | 75 | 67 | 61 | 72 | 66 | 61 | 70 | 64 | 60 | 68 | 63 | 59 | 57 | | | | | | | | |
| 5 | 80 | 69 | 60 | 54 | 78 | 67 | 60 | 54 | 65 | 59 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 | | | | | | | | |
| 6 | 75 | 62 | 54 | 48 | 73 | 61 | 54 | 48 | 60 | 53 | 48 | 58 | 52 | 47 | 57 | 51 | 47 | 45 | | | | | | | | |
| 7 | 70 | 57 | 49 | 43 | 68 | 56 | 49 | 43 | 55 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 42 | 40 | | | | | | | | |
| 8 | 65 | 52 | 45 | 39 | 64 | 52 | 44 | 39 | 51 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 38 | 37 | | | | | | | | |
| 9 | 61 | 48 | 41 | 36 | 60 | 48 | 41 | 36 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 33 | | | | | | | | |
| 10 | 57 | 45 | 38 | 33 | 56 | 44 | 37 | 33 | 44 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 30 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 15104 | 15104 | 15104 |
| 5° | 15657 | 15056 | 14536 |
| 10° | 16101 | 14923 | 13943 |
| 15° | 16457 | 14660 | 13325 |
| 20° | 16486 | 14084 | 12788 |
| 25° | 16172 | 13303 | 12337 |
| 30° | 15336 | 12341 | 11789 |
| 35° | 13936 | 11237 | 11263 |
| 40° | 12185 | 10084 | 10615 |
| 45° | 10558 | 8979 | 9891 |
| 50° | 9249 | 7978 | 9014 |
| 55° | 8231 | 7070 | 8150 |
| 60° | 7419 | 6352 | 7166 |
| 65° | 6705 | 5582 | 6246 |
| 70° | 6023 | 4706 | 4643 |
| 75° | 5314 | 3729 | 3491 |
| 80° | 4457 | 3090 | 3338 |
| 85° | 3467 | 2689 | 2972 |



TEST NUMBER: P593498

CATALOG NUMBER: HC807D010-HM80520850-81WWWB

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 46.2 | 4.7 |
| 10°-20° | 130.2 | 13.2 |
| 20°-30° | 186.0 | 18.9 |
| 30°-40° | 197.6 | 20.1 |
| 40°-50° | 170.2 | 17.3 |
| 50°-60° | 127.2 | 12.9 |
| 60°-70° | 81.1 | 8.2 |
| 70°-80° | 36.9 | 3.7 |
| 80°-90° | 9.7 | 1.0 |
| 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° | 362.4 | 36.8 |
| 0°-40° | 560.0 | 56.8 |
| 0°-60° | 857.4 | 87.0 |
| 0°-90° | 985.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 985.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 490 | 490 | 490 | 490 | 490 | |
| 5° | 506 | 499 | 486 | 474 | 470 | 48 |
| 15° | 516 | 498 | 459 | 428 | 417 | 145 |
| 25° | 475 | 445 | 391 | 367 | 363 | 218 |
| 35° | 370 | 344 | 298 | 291 | 299 | 231 |
| 45° | 242 | 229 | 206 | 212 | 227 | 188 |
| 55° | 153 | 140 | 132 | 143 | 152 | 138 |
| 65° | 92 | 81 | 76 | 80 | 86 | 92 |
| 75° | 45 | 38 | 31 | 29 | 29 | 47 |
| 85° | 10 | 8 | 8 | 8 | 8 | 12 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P593498

CATALOG NUMBER: HC807D010-HM80520850-81WWWB

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 489.8 | 489.8 | 489.8 | 489.8 | 489.8 | 489.8 | 489.8 | 489.8 | 489.8 | 489.8 | 489.8 |
| 2.5° | 498.9 | 497.5 | 498.2 | 497.5 | 498.2 | 498.2 | 496.8 | 496.8 | 496.8 | 496.8 | 494.7 |
| 5° | 505.8 | 505.1 | 505.1 | 504.4 | 503.7 | 504.4 | 503.7 | 503.1 | 501.7 | 500.9 | 498.9 |
| 7.5° | 510.0 | 510.0 | 510.0 | 510.0 | 509.3 | 508.6 | 507.9 | 506.6 | 505.1 | 503.7 | 502.4 |
| 10° | 514.2 | 514.9 | 514.2 | 513.5 | 512.8 | 511.5 | 510.7 | 509.3 | 507.3 | 505.1 | 503.7 |
| 12.5° | 516.2 | 516.2 | 515.5 | 515.5 | 514.2 | 513.5 | 511.5 | 509.3 | 507.3 | 505.1 | 501.7 |
| 15° | 515.5 | 515.5 | 514.9 | 514.2 | 512.1 | 511.5 | 510.0 | 507.9 | 504.4 | 501.7 | 498.2 |
| 17.5° | 511.5 | 510.7 | 509.3 | 509.3 | 506.6 | 505.8 | 504.4 | 501.7 | 498.2 | 494.0 | 489.8 |
| 20° | 502.4 | 502.4 | 501.7 | 500.9 | 498.2 | 496.0 | 494.7 | 491.3 | 488.4 | 483.6 | 479.4 |
| 22.5° | 489.8 | 491.3 | 489.8 | 488.4 | 484.9 | 484.2 | 482.2 | 478.0 | 473.8 | 468.3 | 463.4 |
| 25° | 475.3 | 474.5 | 473.8 | 472.4 | 469.6 | 468.3 | 465.5 | 461.3 | 457.1 | 450.9 | 445.3 |
| 27.5° | 456.5 | 453.6 | 453.6 | 450.9 | 448.7 | 446.7 | 445.3 | 441.1 | 435.6 | 430.7 | 423.7 |
| 30° | 430.7 | 431.4 | 427.9 | 427.2 | 423.7 | 422.3 | 419.6 | 415.4 | 410.5 | 405.0 | 399.4 |
| 32.5° | 402.8 | 400.8 | 400.8 | 397.9 | 395.2 | 393.2 | 392.4 | 387.5 | 383.4 | 377.9 | 372.2 |
| 35° | 370.2 | 370.2 | 368.1 | 367.3 | 364.6 | 363.2 | 361.1 | 358.4 | 353.5 | 348.6 | 344.4 |
| 37.5° | 338.2 | 336.8 | 336.0 | 334.7 | 332.6 | 330.5 | 330.5 | 325.6 | 324.9 | 319.4 | 313.8 |
| 40° | 302.7 | 304.0 | 302.7 | 300.5 | 299.8 | 298.5 | 297.8 | 295.0 | 292.9 | 288.0 | 284.5 |
| 42.5° | 272.7 | 271.4 | 271.4 | 270.7 | 267.9 | 267.9 | 266.5 | 265.1 | 261.6 | 260.3 | 256.1 |
| 45° | 242.1 | 243.5 | 241.4 | 242.1 | 239.4 | 239.4 | 239.4 | 236.6 | 233.7 | 231.7 | 229.0 |
| 47.5° | 215.7 | 216.4 | 216.4 | 214.3 | 213.5 | 213.5 | 212.2 | 210.8 | 208.8 | 205.9 | 203.9 |
| 50° | 192.8 | 193.5 | 192.0 | 191.3 | 190.0 | 189.3 | 189.3 | 186.4 | 185.1 | 182.2 | 180.9 |
| 52.5° | 171.8 | 171.8 | 171.1 | 171.1 | 169.1 | 169.1 | 167.7 | 165.6 | 164.2 | 162.8 | 159.3 |
| 55° | 153.1 | 153.1 | 152.4 | 151.6 | 151.6 | 149.6 | 148.9 | 146.9 | 145.4 | 142.7 | 140.5 |
| 57.5° | 135.0 | 135.6 | 135.0 | 134.3 | 133.6 | 132.9 | 131.5 | 129.4 | 128.0 | 126.0 | 124.5 |
| 60° | 120.3 | 120.3 | 119.6 | 119.0 | 117.6 | 116.9 | 116.2 | 114.8 | 112.7 | 111.4 | 109.2 |
| 62.5° | 106.5 | 105.8 | 105.0 | 104.3 | 103.0 | 103.0 | 101.6 | 100.1 | 98.1 | 96.7 | 95.4 |
| 65° | 91.9 | 91.9 | 91.2 | 91.2 | 90.5 | 89.0 | 88.3 | 87.7 | 84.8 | 84.2 | 81.4 |
| 67.5° | 78.6 | 79.3 | 77.9 | 77.9 | 76.5 | 76.5 | 75.9 | 73.7 | 73.0 | 71.7 | 70.3 |
| 70° | 66.8 | 66.8 | 66.8 | 66.1 | 64.6 | 64.1 | 63.3 | 61.9 | 61.2 | 59.9 | 58.4 |
| 72.5° | 55.0 | 55.0 | 54.3 | 54.3 | 53.5 | 52.9 | 52.2 | 50.8 | 50.8 | 49.4 | 48.0 |
| 75° | 44.6 | 44.6 | 43.9 | 43.1 | 42.4 | 42.4 | 41.7 | 41.1 | 39.7 | 39.0 | 38.2 |
| 77.5° | 34.1 | 34.1 | 34.1 | 33.3 | 32.7 | 32.7 | 32.7 | 31.3 | 29.9 | 29.9 | 29.3 |
| 80° | 25.1 | 25.1 | 24.4 | 24.4 | 23.7 | 23.7 | 23.7 | 22.9 | 22.2 | 21.5 | 20.9 |
| 82.5° | 16.7 | 16.7 | 16.7 | 16.7 | 16.0 | 16.0 | 16.0 | 15.3 | 14.6 | 14.6 | 14.6 |
| 85° | 9.8 | 9.8 | 9.8 | 9.8 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 8.4 | 8.4 |
| 87.5° | 4.2 | 3.5 | 4.2 | 3.5 | 4.2 | 3.5 | 4.2 | 3.5 | 3.5 | 3.5 | 3.5 |
| 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: P593498

CATALOG NUMBER: HC807D010-HM80520850-81WWWB

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 489.8 | 489.8 | 489.8 | 489.8 | 489.8 | 489.8 | 489.8 | 489.8 | 489.8 | 489.8 | 489.8 |
| 2.5° | 495.4 | 494.7 | 494.0 | 493.3 | 493.3 | 492.6 | 491.3 | 490.5 | 489.8 | 489.1 | 489.1 |
| 5° | 498.2 | 497.5 | 496.0 | 494.7 | 494.0 | 492.6 | 491.3 | 489.8 | 488.4 | 486.4 | 485.6 |
| 7.5° | 500.2 | 498.2 | 496.8 | 494.0 | 493.3 | 491.9 | 489.8 | 487.8 | 484.9 | 482.2 | 480.0 |
| 10° | 500.2 | 497.5 | 495.4 | 491.9 | 490.5 | 489.1 | 486.4 | 482.9 | 479.4 | 476.6 | 473.1 |
| 12.5° | 498.9 | 495.4 | 491.9 | 488.4 | 486.4 | 484.2 | 480.0 | 476.6 | 472.4 | 468.3 | 465.5 |
| 15° | 494.0 | 489.8 | 485.6 | 481.5 | 479.4 | 476.6 | 472.4 | 467.6 | 463.4 | 459.2 | 454.3 |
| 17.5° | 484.9 | 480.7 | 476.0 | 471.1 | 468.3 | 466.2 | 460.0 | 456.5 | 450.2 | 446.0 | 441.8 |
| 20° | 473.1 | 468.3 | 462.0 | 457.1 | 453.6 | 451.6 | 446.7 | 440.5 | 435.6 | 429.2 | 425.2 |
| 22.5° | 457.8 | 451.6 | 445.3 | 440.5 | 437.0 | 434.1 | 427.9 | 421.6 | 417.4 | 411.9 | 407.0 |
| 25° | 439.8 | 433.4 | 427.2 | 420.3 | 416.8 | 413.9 | 408.5 | 402.8 | 397.3 | 391.0 | 386.8 |
| 27.5° | 418.1 | 411.2 | 405.6 | 399.4 | 395.9 | 391.7 | 385.5 | 379.9 | 374.3 | 370.2 | 364.6 |
| 30° | 394.5 | 386.8 | 381.3 | 375.0 | 371.5 | 368.1 | 361.8 | 356.2 | 351.3 | 346.6 | 343.7 |
| 32.5° | 366.0 | 360.4 | 354.8 | 348.6 | 345.8 | 343.7 | 337.5 | 331.9 | 326.4 | 322.2 | 320.0 |
| 35° | 338.9 | 332.6 | 327.7 | 322.2 | 318.7 | 316.6 | 311.1 | 306.2 | 303.4 | 298.5 | 295.8 |
| 37.5° | 310.3 | 305.4 | 299.8 | 294.3 | 292.2 | 290.1 | 286.0 | 281.1 | 276.9 | 273.4 | 272.1 |
| 40° | 280.3 | 276.3 | 271.4 | 267.9 | 265.8 | 263.7 | 260.3 | 256.7 | 253.9 | 250.5 | 249.0 |
| 42.5° | 251.9 | 249.0 | 245.0 | 240.8 | 238.6 | 237.9 | 233.7 | 231.0 | 229.6 | 228.2 | 226.8 |
| 45° | 226.1 | 221.9 | 219.2 | 216.4 | 214.3 | 212.9 | 210.8 | 208.8 | 207.3 | 205.9 | 204.6 |
| 47.5° | 201.1 | 197.7 | 194.8 | 192.8 | 190.6 | 190.0 | 188.6 | 186.4 | 185.1 | 185.1 | 185.1 |
| 50° | 178.2 | 175.3 | 172.6 | 171.1 | 170.5 | 169.1 | 167.7 | 166.9 | 166.3 | 166.3 | 166.3 |
| 52.5° | 158.0 | 155.1 | 153.1 | 151.6 | 151.6 | 150.3 | 148.9 | 148.2 | 148.2 | 148.2 | 148.2 |
| 55° | 139.1 | 137.1 | 135.6 | 134.3 | 132.9 | 132.2 | 132.2 | 132.2 | 131.5 | 131.5 | 132.2 |
| 57.5° | 122.5 | 121.1 | 119.0 | 117.6 | 116.9 | 116.9 | 116.2 | 115.6 | 116.2 | 116.9 | 117.6 |
| 60° | 107.2 | 105.8 | 105.0 | 103.0 | 103.0 | 103.0 | 102.3 | 102.3 | 102.3 | 103.0 | 103.7 |
| 62.5° | 93.2 | 92.5 | 91.2 | 90.5 | 89.7 | 89.7 | 89.0 | 89.0 | 89.0 | 89.0 | 89.7 |
| 65° | 80.7 | 79.3 | 77.9 | 77.9 | 77.9 | 77.2 | 77.2 | 75.9 | 76.5 | 76.5 | 75.9 |
| 67.5° | 68.8 | 67.5 | 66.8 | 66.1 | 65.4 | 65.4 | 64.6 | 64.1 | 63.3 | 63.3 | 63.3 |
| 70° | 57.7 | 56.4 | 56.4 | 55.0 | 55.0 | 54.3 | 53.5 | 53.5 | 52.9 | 52.2 | 51.5 |
| 72.5° | 46.6 | 45.9 | 45.2 | 44.6 | 44.6 | 44.6 | 43.9 | 43.1 | 42.4 | 41.7 | 40.4 |
| 75° | 36.9 | 36.9 | 35.5 | 34.8 | 34.8 | 34.1 | 33.3 | 32.7 | 32.0 | 31.3 | 30.6 |
| 77.5° | 28.6 | 27.8 | 26.4 | 25.7 | 25.7 | 25.7 | 25.1 | 24.4 | 23.7 | 22.9 | 22.2 |
| 80° | 20.9 | 20.2 | 19.5 | 18.8 | 18.8 | 18.8 | 18.0 | 18.0 | 17.4 | 17.4 | 17.4 |
| 82.5° | 13.9 | 13.9 | 13.3 | 13.3 | 13.3 | 13.3 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 |
| 85° | 8.4 | 8.4 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 |
| 87.5° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 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):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 489.8 | 489.8 | 489.8 | 489.8 | 489.8 | 489.8 | 489.8 | 489.8 | 489.8 | 489.8 | 489.8 |
| 2.5° | 487.8 | 487.8 | 486.4 | 485.6 | 484.9 | 485.6 | 484.2 | 483.6 | 482.9 | 482.9 | 482.2 |
| 5° | 483.6 | 482.9 | 480.0 | 479.4 | 478.7 | 478.0 | 476.6 | 475.3 | 473.8 | 473.1 | 472.4 |
| 7.5° | 478.0 | 476.0 | 473.1 | 472.4 | 471.8 | 469.6 | 467.6 | 466.2 | 464.1 | 463.4 | 462.0 |
| 10° | 470.4 | 467.6 | 465.5 | 463.4 | 462.0 | 460.0 | 457.8 | 455.8 | 452.9 | 452.3 | 450.2 |
| 12.5° | 461.3 | 457.8 | 453.6 | 452.9 | 450.9 | 448.1 | 445.3 | 443.2 | 441.1 | 439.8 | 437.6 |
| 15° | 450.2 | 446.7 | 442.5 | 440.5 | 438.3 | 436.3 | 432.8 | 430.0 | 427.9 | 425.8 | 423.7 |
| 17.5° | 437.0 | 432.8 | 429.2 | 427.2 | 425.8 | 422.3 | 419.6 | 416.1 | 413.9 | 411.9 | 409.8 |
| 20° | 421.0 | 417.4 | 412.6 | 410.5 | 409.8 | 407.0 | 403.6 | 402.1 | 399.4 | 397.3 | 395.9 |
| 22.5° | 402.8 | 399.4 | 395.2 | 393.9 | 391.0 | 389.7 | 386.1 | 384.8 | 383.4 | 381.3 | 380.6 |
| 25° | 382.6 | 379.2 | 375.7 | 375.0 | 373.0 | 371.5 | 369.5 | 367.3 | 367.3 | 365.3 | 365.3 |
| 27.5° | 361.8 | 358.4 | 355.5 | 354.2 | 353.5 | 352.0 | 350.0 | 349.3 | 348.6 | 347.9 | 347.9 |
| 30° | 339.5 | 335.3 | 334.0 | 333.3 | 332.6 | 331.1 | 330.5 | 329.1 | 329.8 | 330.5 | 329.8 |
| 32.5° | 315.8 | 314.5 | 311.7 | 310.3 | 311.1 | 310.3 | 308.9 | 310.3 | 309.6 | 311.1 | 311.7 |
| 35° | 292.9 | 291.6 | 290.1 | 290.1 | 288.7 | 288.7 | 288.7 | 289.4 | 290.9 | 291.6 | 292.9 |
| 37.5° | 270.7 | 268.5 | 267.9 | 267.2 | 267.9 | 267.9 | 267.9 | 269.2 | 270.7 | 272.1 | 274.1 |
| 40° | 247.0 | 245.6 | 245.6 | 245.6 | 245.6 | 247.7 | 247.0 | 248.4 | 249.8 | 251.9 | 253.9 |
| 42.5° | 224.8 | 224.8 | 225.4 | 225.4 | 225.4 | 225.4 | 226.8 | 229.0 | 231.0 | 233.1 | 235.2 |
| 45° | 203.9 | 203.9 | 203.9 | 205.3 | 205.3 | 205.9 | 208.8 | 210.1 | 211.5 | 213.5 | 215.7 |
| 47.5° | 184.4 | 184.4 | 185.1 | 185.8 | 186.4 | 187.9 | 189.3 | 191.3 | 193.5 | 194.8 | 196.9 |
| 50° | 166.3 | 166.9 | 168.4 | 169.8 | 169.8 | 170.5 | 172.6 | 174.0 | 175.3 | 177.5 | 178.2 |
| 52.5° | 148.9 | 150.3 | 151.6 | 152.4 | 153.1 | 154.5 | 155.1 | 157.3 | 158.0 | 160.0 | 160.7 |
| 55° | 132.9 | 133.6 | 135.6 | 136.3 | 136.3 | 137.8 | 139.1 | 140.5 | 142.7 | 142.7 | 144.0 |
| 57.5° | 118.3 | 119.0 | 120.3 | 121.1 | 120.3 | 122.5 | 123.2 | 124.5 | 125.2 | 126.7 | 127.4 |
| 60° | 103.7 | 105.0 | 105.8 | 105.8 | 106.5 | 107.2 | 108.5 | 108.5 | 109.9 | 111.4 | 111.4 |
| 62.5° | 89.7 | 90.5 | 91.2 | 91.9 | 92.5 | 91.9 | 93.9 | 93.9 | 95.4 | 96.0 | 97.4 |
| 65° | 76.5 | 77.2 | 77.2 | 77.9 | 77.9 | 78.6 | 78.6 | 79.3 | 80.1 | 81.4 | 82.1 |
| 67.5° | 63.3 | 63.3 | 63.3 | 64.1 | 63.3 | 64.1 | 64.1 | 64.6 | 64.6 | 66.1 | 66.8 |
| 70° | 51.5 | 50.8 | 50.1 | 50.1 | 50.1 | 50.1 | 49.4 | 50.1 | 50.1 | 50.8 | 50.8 |
| 72.5° | 39.7 | 39.0 | 38.2 | 37.5 | 37.5 | 36.9 | 36.2 | 36.9 | 36.9 | 37.5 | 37.5 |
| 75° | 29.9 | 28.6 | 28.6 | 28.6 | 27.8 | 27.8 | 27.8 | 28.6 | 28.6 | 28.6 | 29.3 |
| 77.5° | 22.2 | 22.2 | 21.5 | 21.5 | 21.5 | 22.2 | 22.2 | 22.9 | 22.9 | 22.9 | 22.9 |
| 80° | 16.7 | 17.4 | 17.4 | 17.4 | 17.4 | 18.0 | 18.0 | 18.0 | 18.0 | 18.8 | 18.8 |
| 82.5° | 12.5 | 12.5 | 12.5 | 12.5 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 |
| 85° | 7.6 | 8.4 | 8.4 | 7.6 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 |
| 87.5° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 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: P593498

CATALOG NUMBER: HC807D010-HM80520850-81WWWB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 489.8 | 489.8 | 489.8 | 489.8 | 489.8 | 489.8 | 489.8 | 489.8 |
| 2.5° | 481.5 | 481.5 | 481.5 | 481.5 | 480.7 | 480.7 | 480.7 | 480.0 |
| 5° | 471.1 | 471.1 | 471.1 | 469.6 | 470.4 | 470.4 | 468.9 | 469.6 |
| 7.5° | 460.6 | 460.0 | 459.2 | 459.2 | 458.5 | 457.8 | 457.1 | 457.8 |
| 10° | 448.7 | 446.7 | 446.7 | 446.0 | 446.0 | 444.7 | 444.7 | 445.3 |
| 12.5° | 435.6 | 434.1 | 434.1 | 433.4 | 432.8 | 432.1 | 431.4 | 431.4 |
| 15° | 422.3 | 421.0 | 420.3 | 419.6 | 418.8 | 417.4 | 418.1 | 417.4 |
| 17.5° | 409.2 | 407.0 | 407.0 | 406.3 | 405.6 | 404.3 | 404.3 | 403.6 |
| 20° | 393.9 | 393.2 | 391.7 | 392.4 | 391.7 | 390.3 | 389.7 | 389.7 |
| 22.5° | 378.5 | 378.5 | 377.9 | 377.9 | 377.1 | 376.4 | 375.7 | 375.7 |
| 25° | 363.9 | 363.2 | 363.9 | 363.9 | 361.8 | 361.8 | 361.8 | 362.6 |
| 27.5° | 347.1 | 347.9 | 347.1 | 347.1 | 347.1 | 347.1 | 347.9 | 347.1 |
| 30° | 330.5 | 330.5 | 330.5 | 331.1 | 332.6 | 331.9 | 331.9 | 331.1 |
| 32.5° | 312.4 | 313.1 | 313.1 | 313.8 | 314.5 | 315.8 | 315.8 | 316.6 |
| 35° | 294.3 | 295.8 | 296.4 | 295.8 | 297.8 | 297.8 | 299.2 | 299.2 |
| 37.5° | 275.6 | 276.3 | 277.6 | 278.3 | 279.7 | 280.3 | 281.1 | 281.1 |
| 40° | 255.4 | 258.1 | 258.8 | 259.6 | 261.6 | 261.6 | 262.3 | 263.7 |
| 42.5° | 236.6 | 239.4 | 240.1 | 240.8 | 242.1 | 244.3 | 243.5 | 245.0 |
| 45° | 218.4 | 220.6 | 221.3 | 221.9 | 224.1 | 224.8 | 224.8 | 226.8 |
| 47.5° | 199.0 | 200.4 | 201.1 | 202.4 | 203.9 | 205.3 | 206.6 | 205.9 |
| 50° | 179.5 | 181.6 | 183.0 | 183.7 | 185.8 | 186.4 | 187.1 | 187.9 |
| 52.5° | 162.2 | 163.5 | 164.2 | 164.9 | 166.9 | 167.7 | 168.4 | 169.8 |
| 55° | 145.4 | 146.1 | 147.5 | 146.9 | 148.9 | 149.6 | 150.3 | 151.6 |
| 57.5° | 128.7 | 129.4 | 130.1 | 130.1 | 131.5 | 132.9 | 133.6 | 134.3 |
| 60° | 112.7 | 114.1 | 114.8 | 114.8 | 114.8 | 116.2 | 116.2 | 116.2 |
| 62.5° | 98.1 | 98.1 | 98.8 | 98.8 | 100.1 | 100.1 | 100.1 | 100.1 |
| 65° | 82.8 | 83.5 | 84.2 | 84.2 | 85.6 | 84.8 | 86.3 | 85.6 |
| 67.5° | 66.8 | 66.8 | 68.2 | 68.2 | 67.5 | 68.2 | 68.2 | 68.2 |
| 70° | 50.8 | 50.8 | 51.5 | 51.5 | 51.5 | 51.5 | 51.5 | 51.5 |
| 72.5° | 37.5 | 37.5 | 37.5 | 38.2 | 37.5 | 37.5 | 38.2 | 37.5 |
| 75° | 29.3 | 29.3 | 29.3 | 29.3 | 29.3 | 29.3 | 29.3 | 29.3 |
| 77.5° | 22.9 | 22.9 | 23.7 | 23.7 | 23.7 | 23.7 | 23.7 | 23.7 |
| 80° | 18.8 | 18.8 | 18.8 | 18.8 | 19.5 | 18.8 | 18.8 | 18.8 |
| 82.5° | 13.9 | 13.3 | 13.9 | 13.3 | 13.9 | 13.9 | 13.9 | 13.9 |
| 85° | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 |
| 87.5° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 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)