

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: P583658

Luminaire Tested: **HC807D010-HM80520930-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583658
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: HC807D010-HM80520930-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 701.2 lumens
Efficiency: N/A
Efficacy: 87.7 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

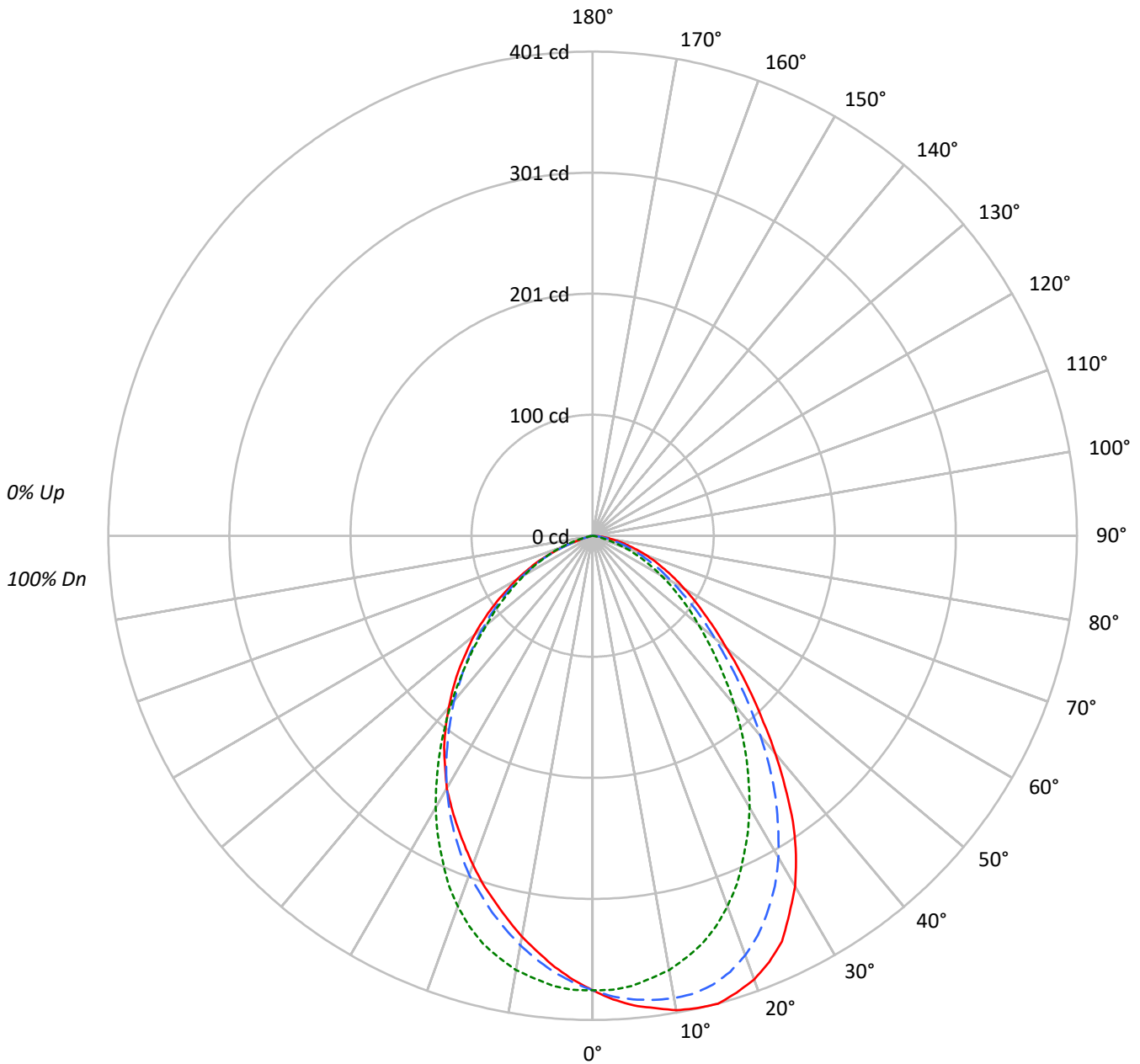
Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583658

CATALOG NUMBER: HC807D010-HM80520930-81WWBB

Luminous Intensity Polar Plot





TEST NUMBER: P583658

CATALOG NUMBER: HC807D010-HM80520930-81WWBB

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° | 11607 | 11607 | 11607 |
| 5° | 12088 | 11583 | 11097 |
| 10° | 12493 | 11435 | 10555 |
| 15° | 12808 | 11173 | 10005 |
| 20° | 12834 | 10711 | 9510 |
| 25° | 12616 | 10030 | 9020 |
| 30° | 11939 | 9254 | 8595 |
| 35° | 10887 | 8327 | 8071 |
| 40° | 9468 | 7342 | 7451 |
| 45° | 8124 | 6358 | 6820 |
| 50° | 6937 | 5478 | 6126 |
| 55° | 6075 | 4720 | 5328 |
| 60° | 5415 | 4021 | 4471 |
| 65° | 4801 | 3291 | 3575 |
| 70° | 4265 | 2434 | 2029 |
| 75° | 3562 | 1263 | 596 |
| 80° | 2806 | 408 | 107 |
| 85° | 1981 | 212 | 0 |



TEST NUMBER: P583658

CATALOG NUMBER: HC807D010-HM80520930-81WWBB

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 35.5 | 5.1 |
| 10°-20° | 99.4 | 14.2 |
| 20°-30° | 140.7 | 20.1 |
| 30°-40° | 147.2 | 21.0 |
| 40°-50° | 122.8 | 17.5 |
| 50°-60° | 87.1 | 12.4 |
| 60°-70° | 50.2 | 7.2 |
| 70°-80° | 16.1 | 2.3 |
| 80°-90° | 2.2 | 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° | 275.6 | 39.3 |
| 0°-40° | 422.8 | 60.3 |
| 0°-60° | 632.7 | 90.2 |
| 0°-90° | 701.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 701.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 376 | 376 | 376 | 376 | 376 | |
| 5° | 390 | 386 | 374 | 363 | 358 | 37 |
| 15° | 401 | 385 | 350 | 322 | 313 | 113 |
| 25° | 371 | 343 | 295 | 271 | 265 | 169 |
| 35° | 289 | 264 | 221 | 209 | 214 | 179 |
| 45° | 186 | 171 | 146 | 148 | 156 | 144 |
| 55° | 113 | 101 | 88 | 92 | 99 | 102 |
| 65° | 66 | 55 | 45 | 45 | 49 | 66 |
| 75° | 30 | 22 | 11 | 5 | 5 | 32 |
| 85° | 6 | 3 | 1 | 0 | 0 | 7 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P583658

CATALOG NUMBER: HC807D010-HM80520930-81WWBB

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 376.4 | 376.4 | 376.4 | 376.4 | 376.4 | 376.4 | 376.4 | 376.4 | 376.4 | 376.4 | 376.4 |
| 2.5° | 384.3 | 383.7 | 383.2 | 383.7 | 383.2 | 383.7 | 383.2 | 383.2 | 382.6 | 382.0 | 382.0 |
| 5° | 390.5 | 389.9 | 389.9 | 389.9 | 389.5 | 388.9 | 388.9 | 388.3 | 387.2 | 386.6 | 385.5 |
| 7.5° | 394.5 | 395.1 | 395.1 | 395.1 | 393.9 | 393.9 | 392.8 | 391.6 | 390.5 | 389.5 | 387.7 |
| 10° | 399.0 | 399.0 | 398.4 | 397.8 | 396.7 | 396.1 | 395.5 | 394.5 | 392.8 | 390.5 | 388.9 |
| 12.5° | 400.7 | 400.7 | 400.1 | 399.0 | 398.4 | 397.8 | 397.2 | 395.5 | 393.3 | 390.5 | 388.3 |
| 15° | 401.2 | 400.1 | 399.5 | 399.0 | 397.8 | 396.1 | 396.1 | 393.9 | 391.1 | 387.7 | 384.9 |
| 17.5° | 396.7 | 397.2 | 396.1 | 395.1 | 393.3 | 392.2 | 390.5 | 388.9 | 385.5 | 381.6 | 378.7 |
| 20° | 391.1 | 390.5 | 389.9 | 388.3 | 386.0 | 385.5 | 383.7 | 381.0 | 378.1 | 373.7 | 369.7 |
| 22.5° | 382.0 | 381.6 | 380.4 | 379.3 | 377.0 | 375.9 | 374.2 | 370.8 | 366.9 | 362.3 | 357.9 |
| 25° | 370.8 | 369.7 | 368.1 | 365.8 | 364.1 | 362.9 | 360.7 | 357.3 | 352.8 | 347.7 | 343.2 |
| 27.5° | 352.8 | 354.6 | 353.4 | 350.0 | 348.3 | 346.1 | 345.5 | 341.1 | 337.1 | 332.0 | 327.0 |
| 30° | 335.3 | 335.3 | 333.6 | 332.0 | 329.2 | 327.5 | 325.3 | 321.8 | 317.9 | 311.8 | 307.8 |
| 32.5° | 313.4 | 312.9 | 310.6 | 310.1 | 307.8 | 304.4 | 303.9 | 299.3 | 295.4 | 290.9 | 285.8 |
| 35° | 289.2 | 288.1 | 285.8 | 284.2 | 283.1 | 281.3 | 279.6 | 275.7 | 271.7 | 267.3 | 263.9 |
| 37.5° | 261.7 | 261.7 | 261.1 | 258.2 | 257.2 | 256.1 | 254.3 | 250.4 | 248.2 | 243.7 | 240.3 |
| 40° | 235.2 | 234.7 | 232.9 | 232.4 | 231.2 | 229.6 | 228.5 | 226.2 | 222.9 | 219.4 | 216.1 |
| 42.5° | 209.4 | 209.8 | 207.7 | 208.2 | 205.9 | 204.8 | 204.2 | 200.9 | 199.2 | 195.9 | 193.0 |
| 45° | 186.3 | 185.7 | 184.5 | 184.0 | 182.8 | 181.8 | 180.7 | 178.9 | 176.1 | 172.8 | 171.0 |
| 47.5° | 164.9 | 163.2 | 163.2 | 162.6 | 162.0 | 159.8 | 159.3 | 157.5 | 155.8 | 152.5 | 150.2 |
| 50° | 144.6 | 144.6 | 144.6 | 144.0 | 142.3 | 141.8 | 140.7 | 139.0 | 137.3 | 135.0 | 131.7 |
| 52.5° | 128.3 | 128.3 | 128.3 | 127.7 | 125.5 | 124.9 | 124.4 | 122.1 | 119.9 | 118.2 | 115.9 |
| 55° | 113.0 | 113.6 | 113.0 | 112.0 | 110.3 | 110.3 | 108.6 | 107.4 | 105.3 | 103.5 | 101.3 |
| 57.5° | 100.1 | 100.1 | 99.1 | 98.5 | 97.4 | 96.8 | 95.7 | 94.5 | 91.8 | 90.0 | 87.2 |
| 60° | 87.8 | 87.2 | 87.2 | 86.0 | 85.0 | 83.9 | 83.3 | 81.6 | 80.4 | 77.7 | 75.4 |
| 62.5° | 76.5 | 76.5 | 75.4 | 75.4 | 73.1 | 73.1 | 72.5 | 70.9 | 69.2 | 66.4 | 65.2 |
| 65° | 65.8 | 65.8 | 65.2 | 64.8 | 63.0 | 62.5 | 61.9 | 60.2 | 58.6 | 56.9 | 55.1 |
| 67.5° | 56.3 | 56.3 | 55.1 | 54.6 | 53.4 | 52.9 | 51.7 | 50.7 | 49.0 | 47.3 | 45.5 |
| 70° | 47.3 | 46.7 | 46.1 | 45.5 | 44.5 | 43.9 | 42.8 | 41.6 | 39.9 | 38.8 | 37.2 |
| 72.5° | 38.2 | 38.2 | 37.6 | 36.6 | 36.0 | 35.5 | 34.9 | 33.8 | 32.0 | 30.4 | 29.3 |
| 75° | 29.9 | 29.9 | 29.9 | 28.7 | 27.6 | 27.0 | 27.0 | 25.9 | 24.7 | 23.1 | 22.0 |
| 77.5° | 23.1 | 22.5 | 22.0 | 22.0 | 20.8 | 20.3 | 19.7 | 19.1 | 17.4 | 16.8 | 15.8 |
| 80° | 15.8 | 16.4 | 15.8 | 15.2 | 14.6 | 14.1 | 14.1 | 12.9 | 12.4 | 11.2 | 10.2 |
| 82.5° | 10.6 | 10.2 | 10.2 | 9.6 | 9.6 | 9.0 | 9.0 | 7.9 | 7.3 | 6.8 | 6.2 |
| 85° | 5.6 | 5.6 | 5.0 | 5.0 | 5.0 | 4.5 | 4.5 | 3.9 | 3.9 | 3.3 | 2.9 |
| 87.5° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.1 | 1.1 | 1.1 |
| 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: P583658

CATALOG NUMBER: HC807D010-HM80520930-81WWBB

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 376.4 | 376.4 | 376.4 | 376.4 | 376.4 | 376.4 | 376.4 | 376.4 | 376.4 | 376.4 | 376.4 |
| 2.5° | 381.6 | 380.4 | 379.8 | 379.8 | 379.3 | 378.7 | 378.1 | 377.6 | 376.4 | 376.4 | 375.3 |
| 5° | 384.3 | 383.2 | 382.6 | 381.0 | 379.8 | 379.8 | 377.6 | 377.0 | 375.3 | 374.2 | 373.1 |
| 7.5° | 386.6 | 384.3 | 382.6 | 381.0 | 379.8 | 378.7 | 376.4 | 374.2 | 372.0 | 369.7 | 368.5 |
| 10° | 386.6 | 384.3 | 381.6 | 378.7 | 377.6 | 376.4 | 373.7 | 370.2 | 367.5 | 365.2 | 362.3 |
| 12.5° | 385.5 | 382.0 | 378.7 | 376.4 | 374.2 | 372.5 | 369.1 | 365.8 | 362.3 | 357.9 | 355.6 |
| 15° | 382.0 | 377.6 | 374.2 | 370.2 | 368.5 | 365.8 | 362.9 | 357.9 | 354.0 | 350.0 | 347.1 |
| 17.5° | 375.3 | 369.7 | 365.8 | 361.8 | 359.0 | 357.3 | 352.8 | 348.3 | 343.8 | 339.3 | 335.9 |
| 20° | 365.2 | 360.2 | 355.6 | 350.6 | 348.3 | 346.1 | 340.5 | 335.9 | 331.5 | 326.4 | 323.0 |
| 22.5° | 352.8 | 347.7 | 341.5 | 337.6 | 334.2 | 331.5 | 326.4 | 321.3 | 316.8 | 312.3 | 307.8 |
| 25° | 337.6 | 332.6 | 327.0 | 320.7 | 318.5 | 315.7 | 310.1 | 305.0 | 299.9 | 294.8 | 290.9 |
| 27.5° | 321.3 | 314.5 | 310.1 | 303.3 | 301.0 | 298.3 | 292.1 | 286.4 | 281.9 | 278.0 | 273.4 |
| 30° | 301.6 | 296.6 | 290.4 | 284.2 | 281.9 | 279.2 | 274.0 | 269.0 | 264.5 | 259.9 | 255.5 |
| 32.5° | 280.2 | 275.2 | 269.0 | 264.5 | 261.1 | 258.8 | 253.8 | 249.3 | 244.7 | 240.3 | 236.4 |
| 35° | 257.8 | 252.1 | 247.6 | 243.1 | 240.3 | 237.4 | 232.4 | 228.5 | 225.1 | 221.2 | 217.3 |
| 37.5° | 234.7 | 230.8 | 226.2 | 221.2 | 218.3 | 216.1 | 212.1 | 207.7 | 204.8 | 201.5 | 198.6 |
| 40° | 212.1 | 207.7 | 203.7 | 199.2 | 196.9 | 195.3 | 191.3 | 188.0 | 185.1 | 182.4 | 180.7 |
| 42.5° | 189.0 | 185.1 | 181.2 | 178.4 | 176.7 | 174.9 | 172.2 | 168.3 | 166.6 | 163.7 | 162.0 |
| 45° | 167.7 | 164.3 | 161.4 | 157.5 | 156.4 | 155.4 | 151.9 | 149.1 | 147.5 | 145.8 | 144.6 |
| 47.5° | 147.5 | 145.2 | 141.8 | 139.6 | 137.9 | 136.7 | 134.4 | 132.3 | 130.5 | 129.4 | 128.3 |
| 50° | 130.0 | 127.1 | 124.9 | 122.7 | 121.5 | 119.9 | 117.6 | 116.5 | 115.3 | 114.2 | 114.2 |
| 52.5° | 113.6 | 110.9 | 108.6 | 107.0 | 105.8 | 104.7 | 103.0 | 102.4 | 101.3 | 101.3 | 100.7 |
| 55° | 98.5 | 96.8 | 94.5 | 92.3 | 91.8 | 91.2 | 90.0 | 88.9 | 88.3 | 87.8 | 88.3 |
| 57.5° | 85.6 | 83.9 | 81.6 | 79.9 | 79.3 | 78.8 | 78.3 | 77.1 | 76.5 | 76.5 | 76.5 |
| 60° | 73.7 | 72.1 | 70.4 | 68.6 | 68.6 | 67.5 | 66.9 | 66.4 | 65.8 | 65.2 | 65.2 |
| 62.5° | 63.0 | 61.3 | 59.6 | 58.6 | 58.0 | 57.4 | 56.3 | 55.7 | 55.1 | 55.1 | 54.6 |
| 65° | 53.4 | 51.3 | 50.7 | 49.0 | 48.4 | 47.8 | 47.3 | 46.1 | 45.5 | 45.1 | 44.5 |
| 67.5° | 43.9 | 42.8 | 41.1 | 39.9 | 39.4 | 38.8 | 38.2 | 37.2 | 36.6 | 36.0 | 34.9 |
| 70° | 35.5 | 34.3 | 33.2 | 32.0 | 31.5 | 31.0 | 29.9 | 28.7 | 28.1 | 27.0 | 25.3 |
| 72.5° | 27.6 | 26.4 | 25.3 | 24.1 | 23.7 | 23.1 | 22.0 | 20.8 | 19.7 | 18.5 | 17.4 |
| 75° | 20.8 | 19.7 | 18.0 | 16.8 | 16.4 | 16.4 | 14.6 | 13.5 | 12.4 | 10.6 | 9.6 |
| 77.5° | 14.6 | 12.9 | 12.4 | 11.2 | 10.6 | 9.6 | 8.5 | 7.3 | 6.2 | 5.6 | 4.5 |
| 80° | 9.6 | 8.5 | 7.3 | 6.8 | 6.2 | 5.6 | 5.0 | 3.9 | 2.9 | 2.3 | 1.7 |
| 82.5° | 5.6 | 5.0 | 4.5 | 3.9 | 3.3 | 2.9 | 2.3 | 2.3 | 1.7 | 1.1 | 0.6 |
| 85° | 2.9 | 2.3 | 1.7 | 1.7 | 1.1 | 1.1 | 1.1 | 0.6 | 0.6 | 0.6 | 0.6 |
| 87.5° | 1.1 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 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: P583658

CATALOG NUMBER: HC807D010-HM80520930-81WWBB

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 376.4 | 376.4 | 376.4 | 376.4 | 376.4 | 376.4 | 376.4 | 376.4 | 376.4 | 376.4 | 376.4 |
| 2.5° | 374.8 | 374.2 | 373.7 | 373.1 | 373.1 | 372.0 | 372.0 | 371.4 | 370.2 | 369.7 | 369.7 |
| 5° | 371.4 | 369.7 | 368.5 | 368.1 | 367.5 | 365.8 | 365.2 | 364.1 | 362.9 | 361.8 | 361.2 |
| 7.5° | 366.3 | 363.5 | 362.3 | 361.8 | 360.2 | 358.5 | 357.3 | 355.6 | 354.0 | 352.3 | 351.7 |
| 10° | 360.2 | 357.3 | 354.6 | 353.4 | 351.7 | 350.6 | 348.3 | 346.1 | 344.4 | 342.7 | 341.1 |
| 12.5° | 352.3 | 348.8 | 346.1 | 345.0 | 343.2 | 341.1 | 337.6 | 336.5 | 333.6 | 332.6 | 330.3 |
| 15° | 343.2 | 339.3 | 336.5 | 334.8 | 333.2 | 329.7 | 327.5 | 325.3 | 322.4 | 321.3 | 319.1 |
| 17.5° | 332.0 | 327.5 | 324.7 | 323.0 | 321.8 | 319.1 | 315.7 | 312.9 | 310.1 | 308.9 | 307.2 |
| 20° | 318.5 | 315.7 | 311.8 | 310.1 | 308.9 | 305.6 | 302.2 | 301.0 | 298.8 | 296.6 | 294.8 |
| 22.5° | 303.3 | 300.5 | 296.6 | 294.8 | 294.3 | 291.5 | 288.7 | 287.0 | 285.2 | 283.6 | 281.9 |
| 25° | 287.5 | 284.2 | 280.8 | 279.6 | 278.6 | 276.3 | 274.0 | 272.9 | 271.3 | 270.1 | 269.0 |
| 27.5° | 270.7 | 267.3 | 264.5 | 262.8 | 261.7 | 259.9 | 258.8 | 257.8 | 256.6 | 255.5 | 254.9 |
| 30° | 252.6 | 249.3 | 247.0 | 245.9 | 244.7 | 244.3 | 242.6 | 242.0 | 241.4 | 240.3 | 240.8 |
| 32.5° | 234.7 | 231.8 | 229.6 | 227.9 | 227.9 | 226.8 | 226.2 | 226.2 | 225.6 | 225.6 | 225.6 |
| 35° | 215.0 | 213.3 | 211.6 | 211.0 | 210.4 | 209.8 | 209.4 | 209.8 | 209.4 | 209.8 | 210.4 |
| 37.5° | 196.9 | 195.3 | 194.2 | 193.6 | 193.0 | 193.6 | 193.0 | 193.0 | 193.6 | 194.7 | 195.3 |
| 40° | 178.4 | 177.2 | 176.1 | 176.7 | 176.1 | 176.1 | 176.1 | 177.8 | 178.4 | 178.9 | 179.5 |
| 42.5° | 161.0 | 159.8 | 159.3 | 159.3 | 159.8 | 159.3 | 160.4 | 161.0 | 162.0 | 163.7 | 164.9 |
| 45° | 144.0 | 143.5 | 143.5 | 144.0 | 143.5 | 144.6 | 144.6 | 145.8 | 147.5 | 148.5 | 149.7 |
| 47.5° | 128.3 | 128.3 | 128.3 | 128.8 | 128.8 | 129.4 | 130.5 | 131.1 | 132.3 | 133.4 | 134.4 |
| 50° | 113.6 | 114.2 | 114.8 | 114.8 | 114.8 | 115.9 | 117.0 | 117.6 | 118.2 | 118.8 | 120.5 |
| 52.5° | 100.7 | 101.3 | 101.3 | 101.8 | 102.4 | 103.0 | 103.5 | 104.7 | 105.3 | 106.4 | 107.0 |
| 55° | 88.3 | 88.3 | 89.5 | 90.0 | 90.0 | 90.0 | 91.2 | 91.2 | 92.3 | 92.9 | 93.9 |
| 57.5° | 76.5 | 77.1 | 77.1 | 77.7 | 77.7 | 78.3 | 78.8 | 79.3 | 79.9 | 80.4 | 81.0 |
| 60° | 65.2 | 65.2 | 65.2 | 65.8 | 66.4 | 66.9 | 66.4 | 67.5 | 67.5 | 68.6 | 69.2 |
| 62.5° | 54.6 | 55.1 | 55.1 | 55.1 | 55.1 | 55.1 | 55.1 | 55.7 | 56.3 | 56.9 | 57.4 |
| 65° | 44.5 | 44.5 | 44.5 | 43.9 | 44.5 | 43.9 | 44.5 | 45.1 | 45.1 | 45.5 | 46.1 |
| 67.5° | 34.3 | 34.3 | 33.2 | 33.2 | 33.8 | 33.8 | 33.8 | 33.8 | 33.2 | 34.3 | 34.3 |
| 70° | 24.7 | 24.1 | 23.7 | 23.1 | 23.1 | 22.5 | 22.5 | 22.0 | 22.0 | 22.0 | 22.0 |
| 72.5° | 16.4 | 15.2 | 14.1 | 13.5 | 12.9 | 12.9 | 11.8 | 11.2 | 11.8 | 11.8 | 11.8 |
| 75° | 8.5 | 7.3 | 6.8 | 6.2 | 5.6 | 5.6 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| 77.5° | 3.3 | 2.9 | 2.3 | 2.3 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 80° | 1.1 | 1.1 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 82.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 85° | 0.6 | 0.0 | 0.0 | 0.6 | 0.0 | 0.6 | 0.6 | 0.6 | 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: P583658

CATALOG NUMBER: HC807D010-HM80520930-81WWBB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 376.4 | 376.4 | 376.4 | 376.4 | 376.4 | 376.4 | 376.4 | 376.4 |
| 2.5° | 369.1 | 369.1 | 368.5 | 369.1 | 368.1 | 368.5 | 368.1 | 368.1 |
| 5° | 360.7 | 359.6 | 359.6 | 359.6 | 359.0 | 359.0 | 358.5 | 358.5 |
| 7.5° | 350.6 | 350.0 | 349.4 | 348.8 | 348.3 | 347.7 | 347.7 | 347.7 |
| 10° | 340.5 | 339.3 | 339.3 | 338.8 | 337.6 | 337.1 | 337.1 | 337.1 |
| 12.5° | 328.6 | 328.0 | 327.5 | 327.5 | 325.3 | 325.8 | 325.3 | 325.3 |
| 15° | 317.4 | 316.8 | 316.8 | 315.1 | 314.0 | 314.0 | 314.0 | 313.4 |
| 17.5° | 305.6 | 305.0 | 304.4 | 303.3 | 302.2 | 302.2 | 301.6 | 302.2 |
| 20° | 293.1 | 292.7 | 291.5 | 291.5 | 290.9 | 290.4 | 289.2 | 289.8 |
| 22.5° | 280.8 | 279.6 | 279.2 | 279.2 | 278.6 | 278.6 | 277.4 | 277.4 |
| 25° | 267.8 | 267.3 | 266.7 | 267.3 | 266.1 | 266.1 | 265.1 | 265.1 |
| 27.5° | 254.3 | 253.8 | 253.8 | 253.8 | 253.2 | 253.8 | 253.2 | 253.2 |
| 30° | 240.8 | 240.8 | 240.3 | 240.3 | 240.8 | 240.3 | 240.8 | 241.4 |
| 32.5° | 226.2 | 226.2 | 226.8 | 226.8 | 227.3 | 227.3 | 227.3 | 227.3 |
| 35° | 211.0 | 212.1 | 212.1 | 212.7 | 213.3 | 213.8 | 213.8 | 214.4 |
| 37.5° | 196.9 | 197.5 | 198.1 | 198.6 | 199.8 | 199.8 | 199.8 | 199.8 |
| 40° | 181.8 | 182.4 | 183.4 | 182.8 | 185.1 | 185.7 | 185.1 | 185.1 |
| 42.5° | 166.0 | 167.2 | 167.7 | 168.9 | 169.3 | 170.5 | 171.0 | 171.0 |
| 45° | 151.4 | 151.9 | 153.1 | 154.2 | 154.8 | 156.4 | 156.4 | 156.4 |
| 47.5° | 136.2 | 137.3 | 137.9 | 139.0 | 139.6 | 141.2 | 141.8 | 141.2 |
| 50° | 121.5 | 122.7 | 123.8 | 123.8 | 125.5 | 126.1 | 127.1 | 127.7 |
| 52.5° | 107.4 | 108.0 | 109.2 | 109.7 | 110.9 | 112.0 | 112.6 | 113.0 |
| 55° | 93.9 | 94.5 | 95.7 | 95.7 | 97.4 | 97.9 | 99.1 | 99.1 |
| 57.5° | 81.6 | 82.1 | 83.3 | 82.7 | 83.9 | 85.0 | 85.0 | 84.4 |
| 60° | 69.8 | 69.8 | 69.8 | 70.9 | 71.5 | 72.1 | 72.5 | 72.5 |
| 62.5° | 57.4 | 58.6 | 59.0 | 59.0 | 59.6 | 60.2 | 60.2 | 59.6 |
| 65° | 46.1 | 47.3 | 47.8 | 47.8 | 48.4 | 48.4 | 48.4 | 49.0 |
| 67.5° | 34.9 | 34.9 | 34.9 | 35.5 | 34.9 | 34.9 | 34.9 | 34.9 |
| 70° | 22.0 | 22.0 | 22.0 | 22.0 | 21.4 | 22.0 | 22.0 | 22.5 |
| 72.5° | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| 75° | 5.0 | 5.0 | 5.0 | 5.6 | 5.0 | 5.0 | 5.0 | 5.0 |
| 77.5° | 2.3 | 1.7 | 2.3 | 2.3 | 1.7 | 1.7 | 1.7 | 1.7 |
| 80° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 82.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 85° | 0.0 | 0.6 | 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 |



Report Generated By 670245859 / DESKTOP-HRDQ47P





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













(END OF REPORT)