

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: io LED

Report Number: P273345

Luminaire Tested: **0.03-1W-840-10-ID-STD-UNV-AN-3F0**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P273345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (ITL89171-GONIOPHOTOMETRY)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 0.03-1W-840-10-ID-STD-UNV-AN-3F0
Description: iO LIGHTING SERIES .75 LINEAR LED LUMINAIRE, 10 DEGREE OPTIC.
STANDARD OUTPUT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 249.8 lumens
Efficiency: N/A
Efficacy: 33.3 lumens/watt
Spacing Criteria (0/90/45): 0.37 / 0.89 / 0.57
Luminous Opening: Rectangular (W 2.92' x L: 0.05' x H: 0')
CIE Type: Direct

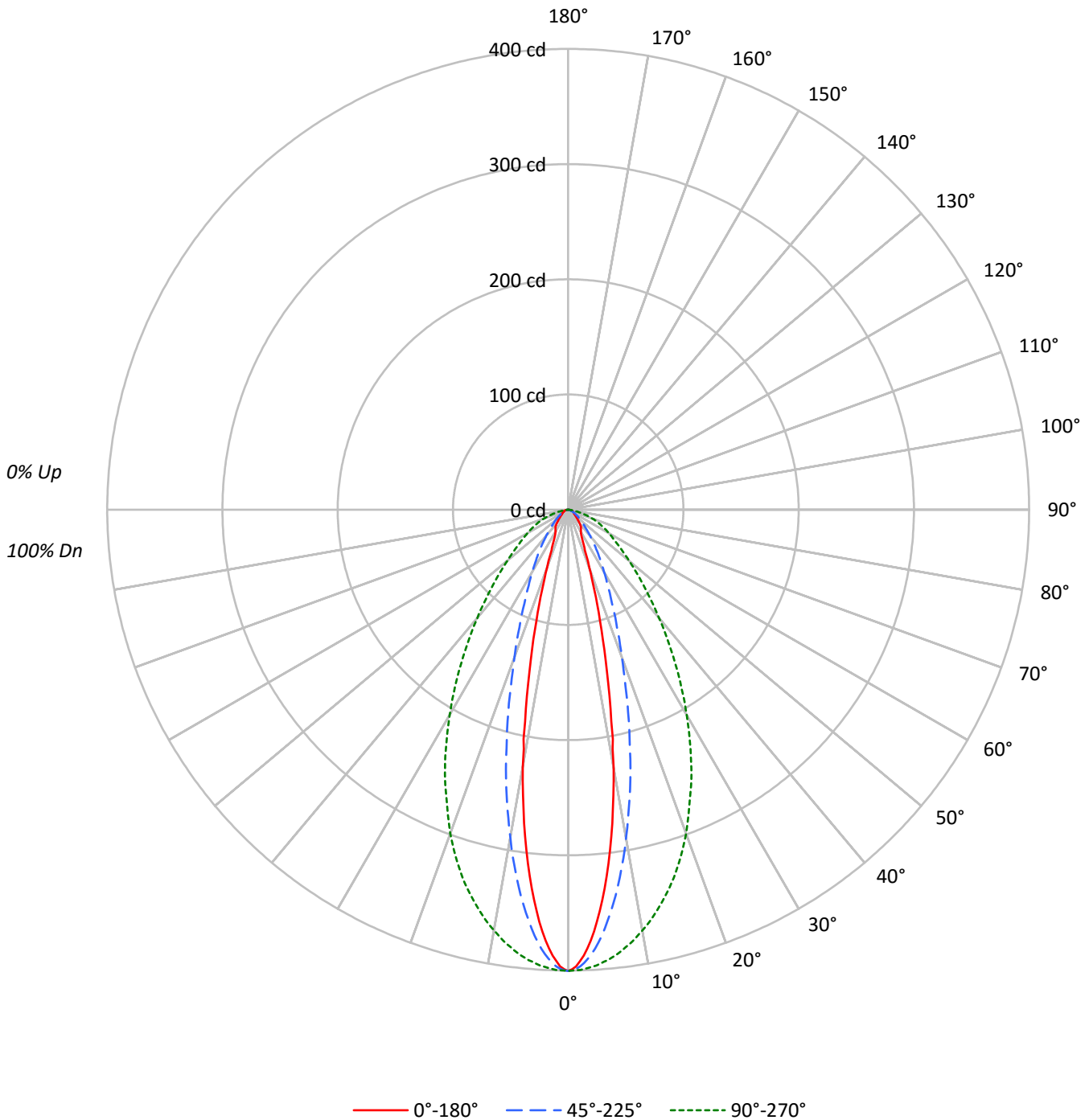
Input Watts (W): 7.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P273345

CATALOG NUMBER: 0.03-1W-840-10-ID-STD-UNV-AN-3F0

Luminous Intensity Polar Plot





TEST NUMBER: P273345

CATALOG NUMBER: 0.03-1W-840-10-ID-STD-UNV-AN-3F0

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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 97 | 96 | 95 | 94 | 93 | 91 |
| 2 | 105 | 100 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 91 | 88 | 92 | 89 | 86 | 89 | 86 | 84 | 82 |
| 3 | 99 | 92 | 86 | 81 | 97 | 90 | 85 | 80 | 87 | 83 | 79 | 85 | 81 | 78 | 83 | 79 | 77 | 75 |
| 4 | 93 | 85 | 78 | 73 | 91 | 83 | 77 | 73 | 81 | 76 | 72 | 79 | 75 | 71 | 77 | 73 | 70 | 69 |
| 5 | 88 | 79 | 72 | 67 | 86 | 78 | 71 | 67 | 76 | 70 | 66 | 74 | 69 | 65 | 72 | 68 | 65 | 63 |
| 6 | 83 | 73 | 66 | 62 | 82 | 72 | 66 | 61 | 71 | 65 | 61 | 69 | 64 | 61 | 68 | 64 | 60 | 59 |
| 7 | 79 | 69 | 62 | 57 | 77 | 68 | 62 | 57 | 67 | 61 | 57 | 65 | 60 | 56 | 64 | 60 | 56 | 55 |
| 8 | 75 | 64 | 58 | 53 | 74 | 64 | 58 | 53 | 63 | 57 | 53 | 62 | 56 | 53 | 61 | 56 | 53 | 51 |
| 9 | 71 | 61 | 54 | 50 | 70 | 60 | 54 | 50 | 59 | 54 | 50 | 58 | 53 | 50 | 57 | 53 | 49 | 48 |
| 10 | 68 | 58 | 51 | 47 | 67 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | 55 | 50 | 47 | 45 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 31524 | 31524 | 31524 |
| 5° | 26886 | 28831 | 31028 |
| 10° | 18124 | 23128 | 29636 |
| 15° | 9496 | 16774 | 27680 |
| 20° | 4516 | 11394 | 25060 |
| 25° | 2528 | 7844 | 21987 |
| 30° | 1982 | 5636 | 18691 |
| 35° | 1865 | 4171 | 15474 |
| 40° | 1583 | 3042 | 12600 |
| 45° | 1247 | 2249 | 10243 |
| 50° | 1029 | 1752 | 8415 |
| 55° | 920 | 1400 | 7193 |
| 60° | 866 | 1102 | 6377 |
| 65° | 931 | 876 | 5812 |
| 70° | 944 | 668 | 5087 |
| 75° | 882 | 578 | 3894 |
| 80° | 861 | 453 | 2494 |
| 85° | 632 | 361 | 1355 |



TEST NUMBER: P273345

CATALOG NUMBER: 0.03-1W-840-10-ID-STD-UNV-AN-3F0

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 32.6 | 13.0 |
| 10°-20° | 60.0 | 24.0 |
| 20°-30° | 52.9 | 21.2 |
| 30°-40° | 41.4 | 16.6 |
| 40°-50° | 28.5 | 11.4 |
| 50°-60° | 18.1 | 7.3 |
| 60°-70° | 10.7 | 4.3 |
| 70°-80° | 4.7 | 1.9 |
| 80°-90° | 0.9 | 0.4 |
| 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° | 145.5 | 58.2 |
| 0°-40° | 186.9 | 74.8 |
| 0°-60° | 233.5 | 93.5 |
| 0°-90° | 249.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 249.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 400 | 400 | 400 | 400 | 400 | |
| 5° | 340 | 348 | 365 | 383 | 393 | 29 |
| 15° | 116 | 142 | 206 | 290 | 340 | 33 |
| 25° | 29 | 41 | 90 | 184 | 253 | 15 |
| 35° | 19 | 21 | 43 | 109 | 161 | 12 |
| 45° | 11 | 13 | 20 | 61 | 92 | 9 |
| 55° | 7 | 7 | 10 | 33 | 52 | 6 |
| 65° | 5 | 4 | 5 | 16 | 31 | 5 |
| 75° | 3 | 3 | 2 | 5 | 13 | 3 |
| 85° | 1 | 1 | 0 | 1 | 2 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P273345

CATALOG NUMBER: 0.03-1W-840-10-ID-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 400.4 | 400.4 | 400.4 | 400.4 | 400.4 | 400.4 | 400.4 | 400.4 | 400.4 | 400.4 | 400.4 |
| 0.5° | 399.0 | 398.9 | 398.7 | 398.6 | 398.5 | 398.5 | 398.8 | 399.1 | 399.4 | 399.7 | 399.8 |
| 1° | 396.4 | 396.3 | 396.3 | 396.3 | 396.2 | 396.5 | 397.0 | 397.5 | 398.0 | 398.5 | 398.7 |
| 1.5° | 392.1 | 392.3 | 392.5 | 392.6 | 392.8 | 393.3 | 394.1 | 395.0 | 395.8 | 396.6 | 397.1 |
| 2° | 387.2 | 387.5 | 387.8 | 388.1 | 388.3 | 389.1 | 390.2 | 391.4 | 392.6 | 393.7 | 394.6 |
| 2.5° | 381.1 | 381.7 | 382.2 | 382.8 | 383.4 | 384.4 | 385.9 | 387.3 | 388.8 | 390.2 | 391.5 |
| 3° | 374.5 | 375.2 | 375.9 | 376.6 | 377.2 | 378.5 | 380.5 | 382.4 | 384.4 | 386.3 | 388.1 |
| 3.5° | 366.8 | 367.7 | 368.5 | 369.4 | 370.3 | 372.0 | 374.4 | 376.9 | 379.4 | 381.8 | 384.0 |
| 4° | 358.5 | 359.6 | 360.6 | 361.7 | 362.8 | 364.8 | 367.7 | 370.7 | 373.6 | 376.6 | 379.4 |
| 4.5° | 349.5 | 350.8 | 352.1 | 353.5 | 354.8 | 357.2 | 360.6 | 364.1 | 367.6 | 371.0 | 374.5 |
| 5° | 340.2 | 341.7 | 343.3 | 344.8 | 346.4 | 349.1 | 353.0 | 356.9 | 360.9 | 364.8 | 369.0 |
| 5.5° | 330.3 | 332.0 | 333.8 | 335.6 | 337.4 | 340.5 | 344.9 | 349.4 | 353.8 | 358.2 | 363.2 |
| 6° | 319.9 | 322.0 | 324.0 | 326.0 | 328.1 | 331.6 | 336.6 | 341.6 | 346.6 | 351.7 | 357.4 |
| 6.5° | 309.0 | 311.3 | 313.7 | 316.0 | 318.3 | 322.3 | 327.9 | 333.5 | 339.1 | 344.7 | 351.1 |
| 7° | 297.6 | 300.2 | 302.8 | 305.4 | 308.0 | 312.4 | 318.7 | 324.9 | 331.2 | 337.4 | 344.7 |
| 7.5° | 286.1 | 289.0 | 291.8 | 294.6 | 297.4 | 302.3 | 309.2 | 316.1 | 323.0 | 330.0 | 338.0 |
| 8° | 274.6 | 277.6 | 280.7 | 283.7 | 286.7 | 292.0 | 299.5 | 307.1 | 314.7 | 322.2 | 331.0 |
| 8.5° | 262.8 | 266.1 | 269.3 | 272.5 | 275.8 | 281.5 | 289.7 | 297.9 | 306.0 | 314.2 | 323.8 |
| 9° | 251.2 | 254.6 | 258.1 | 261.6 | 265.0 | 271.1 | 279.9 | 288.6 | 297.3 | 306.1 | 316.5 |
| 9.5° | 239.1 | 242.5 | 245.8 | 249.2 | 252.6 | 259.1 | 268.7 | 278.4 | 288.1 | 297.8 | 309.0 |
| 10° | 226.7 | 230.4 | 234.0 | 237.7 | 241.3 | 248.3 | 258.6 | 268.8 | 279.1 | 289.3 | 301.3 |
| 10.5° | 211.1 | 215.8 | 220.4 | 225.0 | 229.7 | 237.4 | 248.3 | 259.2 | 270.1 | 281.0 | 293.8 |
| 11° | 202.7 | 206.7 | 210.6 | 214.6 | 218.6 | 226.4 | 237.9 | 249.5 | 261.0 | 272.6 | 286.2 |
| 11.5° | 187.8 | 192.7 | 197.5 | 202.3 | 207.1 | 215.6 | 227.8 | 240.0 | 252.2 | 264.4 | 278.6 |
| 12° | 176.5 | 181.4 | 186.4 | 191.3 | 196.3 | 205.1 | 217.9 | 230.7 | 243.5 | 256.3 | 271.1 |
| 12.5° | 165.6 | 170.6 | 175.7 | 180.7 | 185.7 | 194.9 | 208.2 | 221.5 | 234.8 | 248.1 | 263.6 |
| 13° | 154.8 | 159.9 | 165.0 | 170.1 | 175.2 | 184.7 | 198.5 | 212.2 | 226.0 | 239.8 | 256.1 |
| 13.5° | 144.4 | 149.6 | 154.8 | 160.0 | 165.2 | 174.8 | 189.0 | 203.2 | 217.3 | 231.5 | 248.4 |
| 14° | 134.7 | 139.9 | 145.1 | 150.3 | 155.5 | 165.4 | 179.8 | 194.2 | 208.6 | 223.1 | 240.7 |
| 14.5° | 125.5 | 130.7 | 135.8 | 141.0 | 146.1 | 155.9 | 170.4 | 184.9 | 199.4 | 213.9 | 232.3 |
| 15° | 116.5 | 121.6 | 126.7 | 131.8 | 136.9 | 146.9 | 161.6 | 176.3 | 191.0 | 205.8 | 224.9 |
| 16° | 100.3 | 105.3 | 110.3 | 115.4 | 120.4 | 130.4 | 145.4 | 160.4 | 175.4 | 190.5 | 210.5 |
| 17° | 85.8 | 90.6 | 95.5 | 100.3 | 105.2 | 115.2 | 130.3 | 145.5 | 160.6 | 175.8 | 196.5 |
| 18° | 73.2 | 77.9 | 82.5 | 87.1 | 91.8 | 101.5 | 116.4 | 131.3 | 146.2 | 161.0 | 182.6 |
| 19° | 62.9 | 67.0 | 71.1 | 75.2 | 79.3 | 88.8 | 103.6 | 118.4 | 133.3 | 148.1 | 170.0 |
| 20° | 53.9 | 57.9 | 61.9 | 65.9 | 69.9 | 79.0 | 93.3 | 107.5 | 121.8 | 136.0 | 158.2 |
| 22.5° | 37.9 | 40.9 | 43.9 | 47.0 | 50.0 | 58.1 | 71.3 | 84.4 | 97.5 | 110.7 | 132.8 |
| 25° | 29.1 | 31.2 | 33.3 | 35.3 | 37.4 | 44.2 | 55.7 | 67.2 | 78.7 | 90.3 | 111.6 |
| 27.5° | 24.5 | 25.7 | 27.0 | 28.2 | 29.5 | 35.0 | 44.8 | 54.7 | 64.4 | 74.3 | 94.1 |
| 30° | 21.8 | 22.5 | 23.3 | 24.0 | 24.7 | 29.2 | 37.4 | 45.6 | 53.8 | 62.0 | 80.1 |
| 32.5° | 20.5 | 20.8 | 21.1 | 21.4 | 21.7 | 25.2 | 31.8 | 38.5 | 45.2 | 51.8 | 68.2 |
| 35° | 19.4 | 19.5 | 19.6 | 19.7 | 19.9 | 22.5 | 27.8 | 33.0 | 38.2 | 43.4 | 58.2 |
| 37.5° | 17.8 | 17.9 | 18.1 | 18.3 | 18.4 | 20.4 | 24.3 | 28.1 | 32.0 | 35.8 | 49.2 |
| 40° | 15.4 | 15.7 | 16.0 | 16.3 | 16.6 | 18.2 | 21.0 | 23.9 | 26.7 | 29.6 | 41.4 |
| 42.5° | 13.1 | 13.4 | 13.7 | 14.1 | 14.4 | 15.6 | 17.8 | 20.0 | 22.2 | 24.3 | 34.8 |



TEST NUMBER: P273345

CATALOG NUMBER: 0.03-1W-840-10-ID-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 45° | 11.2 | 11.4 | 11.7 | 11.9 | 12.1 | 13.1 | 14.9 | 16.7 | 18.5 | 20.2 | 29.5 |
| 47.5° | 9.6 | 9.8 | 10.0 | 10.2 | 10.4 | 11.2 | 12.6 | 14.0 | 15.5 | 16.9 | 24.9 |
| 50° | 8.4 | 8.6 | 8.8 | 8.9 | 9.1 | 9.7 | 10.9 | 12.0 | 13.1 | 14.3 | 21.2 |
| 52.5° | 7.6 | 7.7 | 7.8 | 7.9 | 8.0 | 8.5 | 9.4 | 10.3 | 11.2 | 12.1 | 18.1 |
| 55° | 6.7 | 6.8 | 6.8 | 6.9 | 7.0 | 7.3 | 8.1 | 8.8 | 9.5 | 10.2 | 15.3 |
| 57.5° | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.4 | 6.9 | 7.4 | 7.9 | 8.4 | 12.8 |
| 60° | 5.5 | 5.5 | 5.5 | 5.4 | 5.4 | 5.6 | 5.9 | 6.3 | 6.6 | 7.0 | 10.7 |
| 62.5° | 5.2 | 5.2 | 5.0 | 5.0 | 4.9 | 4.9 | 5.1 | 5.3 | 5.5 | 5.7 | 8.8 |
| 65° | 5.0 | 4.8 | 4.7 | 4.6 | 4.4 | 4.4 | 4.5 | 4.5 | 4.6 | 4.7 | 7.1 |
| 67.5° | 4.5 | 4.4 | 4.3 | 4.1 | 4.0 | 3.9 | 3.9 | 3.8 | 3.8 | 3.8 | 5.6 |
| 70° | 4.1 | 4.0 | 3.8 | 3.7 | 3.6 | 3.4 | 3.3 | 3.2 | 3.0 | 2.9 | 4.4 |
| 72.5° | 3.6 | 3.5 | 3.3 | 3.1 | 3.0 | 2.9 | 2.7 | 2.6 | 2.4 | 2.3 | 3.4 |
| 75° | 2.9 | 2.9 | 2.8 | 2.7 | 2.7 | 2.5 | 2.4 | 2.2 | 2.1 | 1.9 | 2.6 |
| 77.5° | 2.3 | 2.3 | 2.2 | 2.1 | 2.1 | 2.0 | 1.8 | 1.7 | 1.6 | 1.5 | 1.9 |
| 80° | 1.9 | 1.8 | 1.8 | 1.7 | 1.6 | 1.5 | 1.4 | 1.3 | 1.1 | 1.0 | 1.3 |
| 82.5° | 1.3 | 1.3 | 1.3 | 1.2 | 1.2 | 1.1 | 1.0 | 0.9 | 0.8 | 0.7 | 0.8 |
| 85° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.6 | 0.6 | 0.5 | 0.4 | 0.5 |
| 87.5° | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 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: P273345

CATALOG NUMBER: 0.03-1W-840-10-ID-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 400.4 | 400.4 | 400.4 | 400.4 | 400.4 | 400.4 | 400.4 | 400.4 |
| 0.5° | 399.8 | 399.9 | 400.0 | 400.0 | 400.1 | 400.1 | 400.1 | 400.1 |
| 1° | 398.9 | 399.1 | 399.3 | 399.5 | 399.6 | 399.6 | 399.8 | 399.9 |
| 1.5° | 397.5 | 397.9 | 398.3 | 398.7 | 398.9 | 399.1 | 399.3 | 399.6 |
| 2° | 395.4 | 396.2 | 397.0 | 397.6 | 397.9 | 398.3 | 398.6 | 399.0 |
| 2.5° | 392.8 | 394.1 | 395.4 | 396.3 | 396.7 | 397.2 | 397.6 | 398.1 |
| 3° | 389.9 | 391.6 | 393.4 | 394.6 | 395.3 | 396.0 | 396.6 | 397.2 |
| 3.5° | 386.1 | 388.3 | 390.5 | 392.1 | 393.2 | 394.2 | 395.3 | 396.4 |
| 4° | 382.3 | 385.1 | 387.9 | 390.0 | 391.3 | 392.6 | 393.9 | 395.2 |
| 4.5° | 378.1 | 381.6 | 385.1 | 387.7 | 389.2 | 390.7 | 392.2 | 393.7 |
| 5° | 373.3 | 377.6 | 381.9 | 384.9 | 386.8 | 388.8 | 390.7 | 392.6 |
| 5.5° | 368.3 | 373.4 | 378.4 | 382.0 | 384.2 | 386.4 | 388.6 | 390.8 |
| 6° | 363.2 | 368.9 | 374.7 | 378.9 | 381.4 | 384.0 | 386.5 | 389.1 |
| 6.5° | 357.6 | 364.1 | 370.6 | 375.3 | 378.3 | 381.3 | 384.3 | 387.3 |
| 7° | 352.0 | 359.3 | 366.6 | 372.0 | 375.3 | 378.6 | 382.0 | 385.3 |
| 7.5° | 346.0 | 354.0 | 362.1 | 367.9 | 371.7 | 375.4 | 379.2 | 383.0 |
| 8° | 339.8 | 348.7 | 357.5 | 364.0 | 368.2 | 372.4 | 376.7 | 380.9 |
| 8.5° | 333.5 | 343.1 | 352.7 | 359.8 | 364.5 | 369.2 | 373.9 | 378.6 |
| 9° | 326.8 | 337.2 | 347.6 | 355.4 | 360.5 | 365.7 | 370.8 | 376.0 |
| 9.5° | 320.2 | 331.4 | 342.6 | 351.0 | 356.5 | 362.2 | 367.8 | 373.4 |
| 10° | 313.3 | 325.4 | 337.4 | 346.4 | 352.5 | 358.6 | 364.6 | 370.7 |
| 10.5° | 306.6 | 319.4 | 332.2 | 341.8 | 348.4 | 355.0 | 361.5 | 368.1 |
| 11° | 299.7 | 313.3 | 326.8 | 337.2 | 344.2 | 351.3 | 358.4 | 365.5 |
| 11.5° | 292.9 | 307.0 | 321.3 | 332.2 | 339.8 | 347.4 | 355.0 | 362.6 |
| 12° | 286.0 | 300.8 | 315.7 | 327.1 | 335.2 | 343.3 | 351.3 | 359.4 |
| 12.5° | 279.2 | 294.7 | 310.2 | 322.3 | 330.7 | 339.2 | 347.7 | 356.2 |
| 13° | 272.3 | 288.5 | 304.8 | 317.4 | 326.3 | 335.2 | 344.1 | 353.0 |
| 13.5° | 265.3 | 282.2 | 299.1 | 312.2 | 321.6 | 331.0 | 340.4 | 349.8 |
| 14° | 258.3 | 276.0 | 293.6 | 307.3 | 317.1 | 326.8 | 336.5 | 346.3 |
| 14.5° | 250.8 | 269.2 | 287.7 | 302.0 | 312.3 | 322.6 | 332.8 | 343.1 |
| 15° | 243.9 | 263.0 | 282.1 | 297.0 | 307.6 | 318.3 | 328.9 | 339.6 |
| 16° | 230.4 | 250.5 | 270.5 | 286.2 | 297.7 | 309.3 | 320.8 | 332.3 |
| 17° | 217.3 | 238.1 | 258.8 | 275.4 | 287.6 | 299.9 | 312.2 | 324.4 |
| 18° | 204.1 | 225.6 | 247.1 | 264.4 | 277.3 | 290.3 | 303.3 | 316.3 |
| 19° | 192.0 | 213.9 | 235.8 | 253.6 | 267.1 | 280.7 | 294.3 | 307.8 |
| 20° | 180.5 | 202.7 | 224.9 | 243.1 | 257.1 | 271.1 | 285.1 | 299.1 |
| 22.5° | 154.9 | 177.0 | 199.1 | 217.3 | 231.8 | 246.3 | 260.7 | 275.2 |
| 25° | 132.9 | 154.1 | 175.4 | 193.5 | 208.4 | 223.3 | 238.2 | 253.1 |
| 27.5° | 113.9 | 133.8 | 153.6 | 170.8 | 185.4 | 200.0 | 214.6 | 229.2 |
| 30° | 98.2 | 116.3 | 134.4 | 150.3 | 164.2 | 178.0 | 191.8 | 205.6 |
| 32.5° | 84.7 | 101.1 | 117.5 | 132.0 | 144.7 | 157.5 | 170.2 | 182.9 |
| 35° | 73.0 | 87.7 | 102.5 | 115.6 | 127.0 | 138.3 | 149.7 | 161.0 |
| 37.5° | 62.5 | 75.8 | 89.1 | 100.8 | 110.9 | 120.9 | 130.9 | 141.0 |
| 40° | 53.3 | 65.2 | 77.1 | 87.4 | 96.2 | 105.0 | 113.8 | 122.6 |
| 42.5° | 45.3 | 55.9 | 66.4 | 75.5 | 83.2 | 90.9 | 98.6 | 106.3 |



TEST NUMBER: P273345

CATALOG NUMBER: 0.03-1W-840-10-ID-STD-UNV-AN-3F0

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|------|------|------|------|------|------|------|------|
| 45° | 38.7 | 47.9 | 57.1 | 65.1 | 71.8 | 78.6 | 85.3 | 92.0 |
| 47.5° | 32.9 | 41.0 | 49.0 | 55.9 | 61.8 | 67.7 | 73.6 | 79.5 |
| 50° | 28.2 | 35.2 | 42.1 | 48.1 | 53.3 | 58.4 | 63.6 | 68.7 |
| 52.5° | 24.1 | 30.1 | 36.0 | 41.3 | 45.9 | 50.5 | 55.1 | 59.7 |
| 55° | 20.5 | 25.6 | 30.8 | 35.5 | 39.7 | 43.9 | 48.2 | 52.4 |
| 57.5° | 17.2 | 21.6 | 26.0 | 30.2 | 34.2 | 38.1 | 42.1 | 46.0 |
| 60° | 14.4 | 18.1 | 21.8 | 25.5 | 29.2 | 33.0 | 36.7 | 40.5 |
| 62.5° | 11.8 | 14.9 | 18.0 | 21.3 | 25.0 | 28.6 | 32.2 | 35.8 |
| 65° | 9.6 | 12.0 | 14.5 | 17.4 | 20.9 | 24.3 | 27.7 | 31.2 |
| 67.5° | 7.5 | 9.4 | 11.3 | 13.9 | 17.1 | 20.3 | 23.6 | 26.8 |
| 70° | 5.8 | 7.3 | 8.7 | 10.9 | 13.7 | 16.5 | 19.3 | 22.1 |
| 72.5° | 4.5 | 5.5 | 6.6 | 8.2 | 10.5 | 12.7 | 14.9 | 17.2 |
| 75° | 3.3 | 4.0 | 4.7 | 5.9 | 7.7 | 9.4 | 11.1 | 12.8 |
| 77.5° | 2.4 | 2.8 | 3.3 | 4.1 | 5.2 | 6.4 | 7.6 | 8.7 |
| 80° | 1.5 | 1.7 | 1.9 | 2.4 | 3.2 | 4.0 | 4.7 | 5.5 |
| 82.5° | 0.9 | 1.0 | 1.1 | 1.4 | 1.7 | 2.1 | 2.5 | 2.9 |
| 85° | 0.5 | 0.5 | 0.6 | 0.7 | 0.9 | 1.1 | 1.3 | 1.5 |
| 87.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)