

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: NEO-RAY

Report Number: P332719-927

Luminaire Tested: **S124DIW-S350D470U927-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332719-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIW-S350D470U927-4F0-1E-UDD-F
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 470 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2687.1 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: General Diffuse

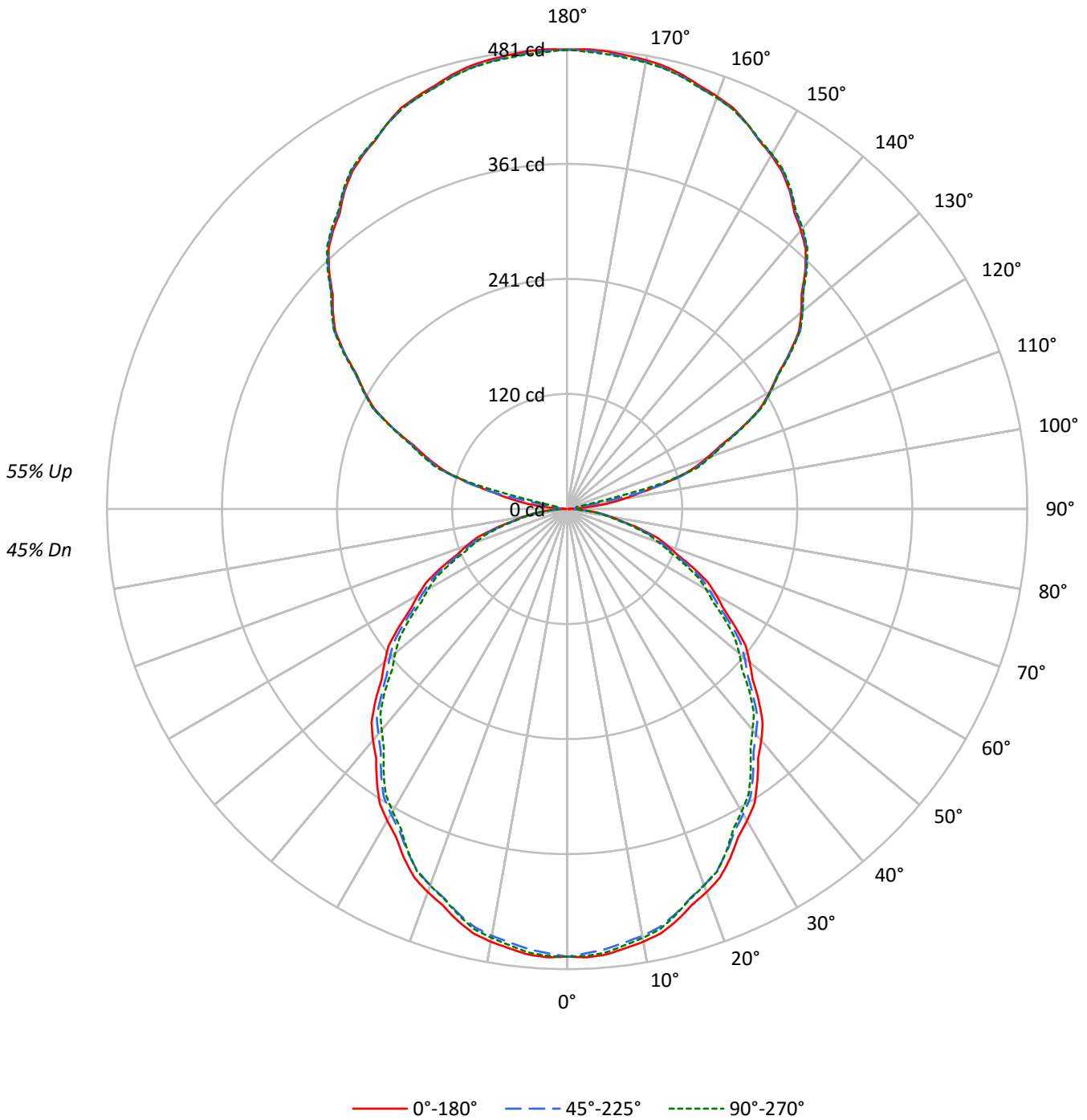
Input Watts (W): 23
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332719-927

CATALOG NUMBER: S124DIW-S350D470U927-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P332719-927

CATALOG NUMBER: S124DIW-S350D470U927-4F0-1E-UDD-F

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 | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 80 | 80 | 80 | 65 | 65 | 65 | 51 | 51 | 51 | 45 |
| 1 | 97 | 92 | 88 | 85 | 88 | 85 | 81 | 78 | 70 | 68 | 66 | 57 | 56 | 54 | 45 | 44 | 43 | 38 |
| 2 | 88 | 81 | 74 | 69 | 80 | 74 | 69 | 64 | 62 | 58 | 55 | 50 | 48 | 45 | 40 | 38 | 36 | 31 |
| 3 | 80 | 71 | 63 | 58 | 73 | 65 | 59 | 54 | 54 | 50 | 46 | 44 | 41 | 38 | 35 | 33 | 31 | 27 |
| 4 | 73 | 63 | 55 | 49 | 67 | 58 | 51 | 45 | 48 | 43 | 39 | 40 | 36 | 33 | 32 | 29 | 27 | 23 |
| 5 | 67 | 56 | 48 | 42 | 61 | 51 | 44 | 39 | 43 | 38 | 34 | 36 | 32 | 28 | 28 | 26 | 23 | 20 |
| 6 | 62 | 50 | 42 | 36 | 57 | 46 | 39 | 34 | 39 | 33 | 29 | 32 | 28 | 25 | 26 | 23 | 20 | 17 |
| 7 | 57 | 45 | 37 | 32 | 52 | 42 | 35 | 30 | 35 | 30 | 26 | 29 | 25 | 22 | 24 | 20 | 18 | 15 |
| 8 | 53 | 41 | 33 | 28 | 49 | 38 | 31 | 26 | 32 | 27 | 23 | 27 | 23 | 20 | 22 | 19 | 16 | 14 |
| 9 | 49 | 37 | 30 | 25 | 45 | 35 | 28 | 23 | 29 | 24 | 20 | 25 | 20 | 18 | 20 | 17 | 15 | 12 |
| 10 | 46 | 34 | 27 | 22 | 42 | 32 | 25 | 21 | 27 | 22 | 18 | 23 | 19 | 16 | 18 | 15 | 13 | 11 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3777 | 3777 | 3777 |
| 5° | 3789 | 3743 | 3771 |
| 10° | 3765 | 3713 | 3731 |
| 15° | 3719 | 3661 | 3670 |
| 20° | 3660 | 3594 | 3598 |
| 25° | 3591 | 3520 | 3510 |
| 30° | 3506 | 3432 | 3402 |
| 35° | 3418 | 3341 | 3297 |
| 40° | 3327 | 3236 | 3177 |
| 45° | 3232 | 3134 | 3075 |
| 50° | 3127 | 3042 | 2948 |
| 55° | 3013 | 2923 | 2829 |
| 60° | 2900 | 2792 | 2706 |
| 65° | 2772 | 2665 | 2558 |
| 70° | 2629 | 2497 | 2398 |
| 75° | 2408 | 2293 | 2233 |
| 80° | 2143 | 2060 | 2004 |
| 85° | 1880 | 1806 | 1769 |



TEST NUMBER: P332719-927

CATALOG NUMBER: S124DIW-S350D470U927-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.1 | 1.6 |
| 10°-20° | 124.2 | 4.6 |
| 20°-30° | 182.8 | 6.8 |
| 30°-40° | 212.5 | 7.9 |
| 40°-50° | 212.5 | 7.9 |
| 50°-60° | 185.9 | 6.9 |
| 60°-70° | 138.0 | 5.1 |
| 70°-80° | 78.4 | 2.9 |
| 80°-90° | 24.0 | 0.9 |
| 90°-100° | 16.4 | 0.6 |
| 100°-110° | 104.7 | 3.9 |
| 110°-120° | 200.2 | 7.5 |
| 120°-130° | 254.2 | 9.5 |
| 130°-140° | 272.0 | 10.1 |
| 140°-150° | 254.3 | 9.5 |
| 150°-160° | 205.1 | 7.6 |
| 160°-170° | 132.3 | 4.9 |
| 170°-180° | 45.6 | 1.7 |
| 0°-30° | 351.0 | 13.1 |
| 0°-40° | 563.5 | 21.0 |
| 0°-60° | 961.8 | 35.8 |
| 0°-90° | 1202.3 | 44.7 |
| 90°-120° | 321.3 | 12.0 |
| 90°-150° | 1101.8 | 41.0 |
| 90°-180° | 1485.0 | 55.3 |
| 0°-180° | 2687.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 468 | 468 | 468 | 468 | 468 | |
| 5° | 468 | 466 | 462 | 466 | 465 | 44 |
| 15° | 445 | 443 | 438 | 440 | 439 | 125 |
| 25° | 403 | 400 | 395 | 396 | 394 | 185 |
| 35° | 347 | 344 | 339 | 336 | 334 | 217 |
| 45° | 283 | 280 | 274 | 270 | 269 | 218 |
| 55° | 214 | 213 | 208 | 203 | 201 | 192 |
| 65° | 145 | 143 | 140 | 136 | 134 | 144 |
| 75° | 77 | 75 | 74 | 72 | 72 | 82 |
| 85° | 20 | 20 | 20 | 20 | 19 | 22 |
| 90° | 1 | 5 | 8 | 10 | 11 | 2 |
| 95° | 20 | 8 | 8 | 10 | 10 | 25 |
| 105° | 108 | 110 | 112 | 114 | 102 | 113 |
| 115° | 202 | 203 | 202 | 203 | 203 | 199 |
| 125° | 284 | 285 | 284 | 285 | 286 | 253 |
| 135° | 352 | 352 | 353 | 354 | 354 | 271 |
| 145° | 406 | 407 | 407 | 407 | 408 | 253 |
| 155° | 445 | 445 | 444 | 445 | 444 | 205 |
| 165° | 469 | 468 | 468 | 470 | 467 | 133 |
| 175° | 480 | 478 | 478 | 481 | 477 | 46 |
| 180° | 480 | 480 | 480 | 480 | 480 | |



TEST NUMBER: P332719-927

CATALOG NUMBER: S124DIW-S350D470U927-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 467.9 | 467.9 | 467.9 | 467.9 | 467.9 | 467.9 | 467.9 | 467.9 | 467.9 | 467.9 | 467.9 |
| 2.5° | 469.1 | 469.0 | 468.7 | 468.6 | 468.3 | 467.9 | 467.1 | 466.4 | 465.7 | 464.9 | 465.6 |
| 5° | 467.5 | 467.2 | 466.9 | 466.6 | 466.3 | 465.6 | 464.7 | 463.8 | 462.9 | 461.9 | 462.9 |
| 7.5° | 463.3 | 462.9 | 462.6 | 462.2 | 461.9 | 461.2 | 460.2 | 459.2 | 458.2 | 457.2 | 457.9 |
| 10° | 459.3 | 459.0 | 458.7 | 458.4 | 458.0 | 457.3 | 456.2 | 455.1 | 454.1 | 453.0 | 453.6 |
| 12.5° | 454.2 | 453.9 | 453.6 | 453.2 | 452.9 | 452.2 | 451.0 | 449.9 | 448.7 | 447.6 | 448.3 |
| 15° | 445.0 | 444.7 | 444.4 | 444.1 | 443.8 | 443.0 | 441.7 | 440.5 | 439.2 | 438.0 | 438.5 |
| 17.5° | 434.0 | 433.6 | 433.2 | 432.8 | 432.4 | 431.6 | 430.4 | 429.2 | 428.0 | 426.8 | 427.1 |
| 20° | 426.0 | 425.6 | 425.2 | 424.7 | 424.3 | 423.5 | 422.2 | 421.0 | 419.7 | 418.4 | 418.7 |
| 22.5° | 417.2 | 416.7 | 416.1 | 415.6 | 415.0 | 414.2 | 412.9 | 411.7 | 410.4 | 409.2 | 409.6 |
| 25° | 403.1 | 402.5 | 402.0 | 401.3 | 400.8 | 399.9 | 398.7 | 397.5 | 396.4 | 395.2 | 395.3 |
| 27.5° | 386.9 | 386.3 | 385.7 | 385.1 | 384.5 | 383.7 | 382.5 | 381.5 | 380.4 | 379.3 | 379.1 |
| 30° | 376.1 | 375.4 | 374.8 | 374.1 | 373.4 | 372.6 | 371.5 | 370.3 | 369.3 | 368.2 | 367.9 |
| 32.5° | 364.7 | 364.1 | 363.5 | 362.9 | 362.3 | 361.4 | 360.3 | 359.1 | 358.0 | 356.8 | 356.4 |
| 35° | 346.8 | 346.3 | 345.7 | 345.1 | 344.5 | 343.6 | 342.5 | 341.3 | 340.2 | 339.0 | 338.4 |
| 37.5° | 328.0 | 327.5 | 326.9 | 326.5 | 325.9 | 325.0 | 323.8 | 322.5 | 321.2 | 320.0 | 319.3 |
| 40° | 315.7 | 315.1 | 314.4 | 313.7 | 313.1 | 312.1 | 310.9 | 309.6 | 308.3 | 307.1 | 306.3 |
| 42.5° | 302.5 | 302.1 | 301.7 | 301.3 | 301.0 | 300.0 | 298.7 | 297.2 | 295.9 | 294.5 | 293.5 |
| 45° | 283.1 | 282.5 | 281.9 | 281.4 | 280.7 | 279.8 | 278.5 | 277.1 | 275.8 | 274.5 | 273.5 |
| 47.5° | 262.8 | 262.4 | 262.0 | 261.6 | 261.2 | 260.4 | 259.1 | 257.9 | 256.7 | 255.4 | 254.4 |
| 50° | 249.0 | 248.7 | 248.3 | 248.0 | 247.6 | 246.9 | 245.7 | 244.5 | 243.4 | 242.2 | 241.1 |
| 52.5° | 235.5 | 235.0 | 234.6 | 234.2 | 233.9 | 233.1 | 231.8 | 230.6 | 229.3 | 228.1 | 227.1 |
| 55° | 214.1 | 213.9 | 213.6 | 213.3 | 213.1 | 212.4 | 211.2 | 210.1 | 208.9 | 207.7 | 206.8 |
| 57.5° | 193.7 | 193.5 | 193.1 | 192.9 | 192.6 | 191.9 | 190.7 | 189.6 | 188.4 | 187.3 | 186.3 |
| 60° | 179.6 | 179.2 | 178.8 | 178.3 | 177.9 | 177.2 | 176.1 | 175.0 | 174.0 | 172.9 | 172.1 |
| 62.5° | 165.8 | 165.5 | 165.1 | 164.8 | 164.4 | 163.7 | 162.5 | 161.4 | 160.2 | 159.1 | 158.4 |
| 65° | 145.1 | 144.7 | 144.3 | 143.9 | 143.5 | 142.8 | 142.0 | 141.2 | 140.3 | 139.5 | 138.6 |
| 67.5° | 124.3 | 123.9 | 123.5 | 123.1 | 122.7 | 122.2 | 121.4 | 120.6 | 119.8 | 118.9 | 118.1 |
| 70° | 111.4 | 110.7 | 110.2 | 109.6 | 109.0 | 108.4 | 107.7 | 107.1 | 106.4 | 105.8 | 105.0 |
| 72.5° | 97.6 | 97.0 | 96.4 | 95.9 | 95.2 | 94.7 | 94.1 | 93.6 | 93.1 | 92.5 | 92.0 |
| 75° | 77.2 | 76.8 | 76.4 | 76.0 | 75.6 | 75.2 | 74.8 | 74.3 | 73.9 | 73.5 | 73.2 |
| 77.5° | 57.8 | 57.7 | 57.4 | 57.3 | 57.1 | 56.8 | 56.5 | 56.1 | 55.7 | 55.4 | 55.2 |
| 80° | 46.1 | 45.9 | 45.6 | 45.4 | 45.2 | 44.9 | 44.8 | 44.6 | 44.4 | 44.3 | 44.0 |
| 82.5° | 34.7 | 34.6 | 34.5 | 34.4 | 34.2 | 34.1 | 34.1 | 34.1 | 34.1 | 34.1 | 34.0 |
| 85° | 20.3 | 20.3 | 20.3 | 20.3 | 20.3 | 20.2 | 20.0 | 19.8 | 19.6 | 19.5 | 19.5 |
| 87.5° | 8.0 | 8.2 | 8.2 | 8.3 | 8.5 | 8.6 | 8.6 | 8.6 | 8.7 | 8.8 | 8.9 |
| 90° | 1.1 | 2.0 | 2.9 | 3.7 | 4.6 | 5.3 | 6.0 | 6.7 | 7.3 | 7.9 | 8.4 |
| 92.5° | 4.5 | 4.6 | 4.6 | 4.7 | 4.8 | 5.1 | 5.7 | 6.3 | 7.0 | 7.6 | 8.1 |
| 95° | 19.7 | 17.0 | 14.3 | 11.6 | 8.9 | 7.6 | 7.7 | 7.8 | 7.8 | 7.9 | 8.4 |
| 97.5° | 41.9 | 43.6 | 45.3 | 47.0 | 48.7 | 45.1 | 36.2 | 27.3 | 18.4 | 9.5 | 9.5 |
| 100° | 58.9 | 60.3 | 61.8 | 63.2 | 64.6 | 59.8 | 48.8 | 37.8 | 26.8 | 15.8 | 14.4 |
| 102.5° | 77.9 | 78.9 | 79.9 | 81.0 | 82.1 | 81.8 | 80.4 | 79.0 | 77.6 | 76.1 | 61.5 |
| 105° | 108.1 | 108.5 | 109.0 | 109.5 | 110.0 | 110.4 | 110.8 | 111.2 | 111.6 | 112.0 | 112.7 |
| 107.5° | 136.2 | 136.4 | 136.7 | 136.9 | 137.1 | 137.5 | 138.0 | 138.6 | 139.1 | 139.7 | 140.0 |
| 110° | 155.1 | 155.3 | 155.6 | 155.8 | 156.1 | 156.4 | 156.9 | 157.4 | 157.9 | 158.4 | 158.5 |



TEST NUMBER: P332719-927

CATALOG NUMBER: S124DIW-S350D470U927-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 173.5 | 173.9 | 174.4 | 174.8 | 175.2 | 175.5 | 175.8 | 175.9 | 176.2 | 176.4 | 176.4 |
| 115° | 201.8 | 202.0 | 202.2 | 202.5 | 202.7 | 202.8 | 202.7 | 202.6 | 202.6 | 202.5 | 202.6 |
| 117.5° | 227.3 | 227.6 | 227.9 | 228.2 | 228.5 | 228.8 | 228.9 | 229.1 | 229.3 | 229.5 | 229.4 |
| 120° | 244.5 | 244.8 | 245.1 | 245.4 | 245.7 | 245.9 | 245.8 | 245.7 | 245.7 | 245.6 | 245.7 |
| 122.5° | 260.5 | 260.8 | 260.9 | 261.2 | 261.3 | 261.5 | 261.6 | 261.7 | 261.8 | 262.0 | 262.1 |
| 125° | 283.6 | 283.9 | 284.2 | 284.6 | 284.9 | 284.9 | 284.8 | 284.6 | 284.5 | 284.3 | 284.6 |
| 127.5° | 305.5 | 305.5 | 305.6 | 305.7 | 305.8 | 306.0 | 306.3 | 306.7 | 307.1 | 307.4 | 307.4 |
| 130° | 319.5 | 319.6 | 319.7 | 319.8 | 319.9 | 320.0 | 320.3 | 320.5 | 320.8 | 321.0 | 321.1 |
| 132.5° | 332.5 | 332.6 | 332.7 | 332.9 | 333.0 | 333.3 | 333.6 | 333.8 | 334.1 | 334.5 | 334.5 |
| 135° | 351.8 | 351.7 | 351.6 | 351.6 | 351.5 | 351.6 | 352.0 | 352.3 | 352.6 | 352.9 | 353.1 |
| 137.5° | 369.0 | 369.0 | 369.1 | 369.1 | 369.2 | 369.3 | 369.6 | 370.0 | 370.3 | 370.7 | 370.9 |
| 140° | 380.2 | 380.3 | 380.5 | 380.6 | 380.8 | 381.0 | 381.1 | 381.4 | 381.5 | 381.7 | 381.9 |
| 142.5° | 390.2 | 390.5 | 390.9 | 391.1 | 391.4 | 391.6 | 391.7 | 391.8 | 391.9 | 392.0 | 392.1 |
| 145° | 405.7 | 405.9 | 406.2 | 406.4 | 406.6 | 406.8 | 406.8 | 406.8 | 406.8 | 406.8 | 406.9 |
| 147.5° | 418.0 | 418.4 | 418.8 | 419.3 | 419.8 | 419.9 | 419.9 | 419.8 | 419.7 | 419.6 | 419.7 |
| 150° | 426.9 | 427.2 | 427.5 | 427.9 | 428.2 | 428.3 | 428.2 | 428.1 | 428.0 | 427.9 | 427.9 |
| 152.5° | 434.4 | 434.6 | 434.8 | 435.1 | 435.4 | 435.4 | 435.3 | 435.1 | 435.0 | 434.8 | 435.0 |
| 155° | 444.8 | 444.9 | 445.0 | 445.0 | 445.1 | 445.0 | 444.8 | 444.6 | 444.3 | 444.1 | 444.4 |
| 157.5° | 453.7 | 453.6 | 453.5 | 453.5 | 453.4 | 453.3 | 453.0 | 452.7 | 452.5 | 452.3 | 452.7 |
| 160° | 458.8 | 458.6 | 458.4 | 458.1 | 457.9 | 457.7 | 457.6 | 457.6 | 457.5 | 457.4 | 457.9 |
| 162.5° | 463.4 | 463.1 | 462.8 | 462.5 | 462.2 | 462.0 | 461.9 | 461.8 | 461.8 | 461.7 | 462.2 |
| 165° | 469.2 | 468.8 | 468.4 | 468.0 | 467.6 | 467.5 | 467.5 | 467.5 | 467.5 | 467.5 | 468.1 |
| 167.5° | 473.8 | 473.4 | 473.0 | 472.6 | 472.1 | 471.9 | 471.9 | 471.8 | 471.8 | 471.7 | 472.5 |
| 170° | 476.4 | 475.9 | 475.5 | 475.0 | 474.5 | 474.3 | 474.4 | 474.4 | 474.5 | 474.6 | 475.2 |
| 172.5° | 478.2 | 477.7 | 477.2 | 476.7 | 476.3 | 476.0 | 476.1 | 476.2 | 476.3 | 476.3 | 477.0 |
| 175° | 480.0 | 479.5 | 479.0 | 478.6 | 478.1 | 477.9 | 478.0 | 478.1 | 478.2 | 478.2 | 479.0 |
| 177.5° | 480.9 | 480.5 | 480.0 | 479.5 | 479.1 | 479.0 | 479.0 | 479.2 | 479.3 | 479.4 | 479.9 |
| 180° | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 |



TEST NUMBER: P332719-927

CATALOG NUMBER: S124DIW-S350D470U927-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 467.9 | 467.9 | 467.9 | 467.9 | 467.9 | 467.9 | 467.9 | 467.9 |
| 2.5° | 466.3 | 467.0 | 467.6 | 467.9 | 467.9 | 467.8 | 467.7 | 467.6 |
| 5° | 463.8 | 464.7 | 465.6 | 466.0 | 465.8 | 465.6 | 465.5 | 465.3 |
| 7.5° | 458.6 | 459.4 | 460.1 | 460.4 | 460.3 | 460.2 | 460.1 | 460.0 |
| 10° | 454.3 | 455.0 | 455.7 | 455.9 | 455.7 | 455.5 | 455.3 | 455.2 |
| 12.5° | 449.0 | 449.7 | 450.5 | 450.8 | 450.5 | 450.3 | 450.0 | 449.8 |
| 15° | 438.9 | 439.4 | 440.0 | 440.1 | 439.8 | 439.6 | 439.3 | 439.1 |
| 17.5° | 427.5 | 427.8 | 428.1 | 428.2 | 428.0 | 427.9 | 427.7 | 427.5 |
| 20° | 419.0 | 419.2 | 419.5 | 419.5 | 419.3 | 419.1 | 419.0 | 418.8 |
| 22.5° | 410.0 | 410.5 | 411.0 | 411.1 | 410.7 | 410.4 | 410.1 | 409.9 |
| 25° | 395.4 | 395.5 | 395.5 | 395.5 | 395.1 | 394.7 | 394.4 | 394.1 |
| 27.5° | 378.9 | 378.7 | 378.5 | 378.2 | 377.8 | 377.4 | 376.9 | 376.5 |
| 30° | 367.6 | 367.3 | 366.9 | 366.5 | 366.1 | 365.7 | 365.3 | 364.9 |
| 32.5° | 356.0 | 355.6 | 355.2 | 354.8 | 354.4 | 353.9 | 353.6 | 353.2 |
| 35° | 337.8 | 337.2 | 336.6 | 336.1 | 335.7 | 335.3 | 334.9 | 334.5 |
| 37.5° | 318.7 | 318.1 | 317.4 | 316.9 | 316.3 | 315.8 | 315.2 | 314.7 |
| 40° | 305.5 | 304.6 | 303.8 | 303.2 | 302.7 | 302.3 | 301.9 | 301.5 |
| 42.5° | 292.6 | 291.6 | 290.7 | 290.0 | 289.7 | 289.5 | 289.1 | 288.9 |
| 45° | 272.7 | 271.7 | 270.8 | 270.2 | 270.0 | 269.7 | 269.5 | 269.3 |
| 47.5° | 253.3 | 252.3 | 251.3 | 250.5 | 249.9 | 249.2 | 248.6 | 248.0 |
| 50° | 239.9 | 238.8 | 237.6 | 236.7 | 236.2 | 235.8 | 235.2 | 234.7 |
| 52.5° | 226.1 | 225.1 | 224.0 | 223.2 | 222.5 | 221.9 | 221.3 | 220.6 |
| 55° | 205.7 | 204.7 | 203.7 | 203.0 | 202.5 | 202.0 | 201.5 | 201.0 |
| 57.5° | 185.4 | 184.4 | 183.5 | 182.8 | 182.3 | 181.8 | 181.3 | 180.8 |
| 60° | 171.3 | 170.6 | 169.8 | 169.3 | 168.9 | 168.4 | 168.0 | 167.6 |
| 62.5° | 157.7 | 157.0 | 156.3 | 155.7 | 155.3 | 155.0 | 154.6 | 154.1 |
| 65° | 137.8 | 137.0 | 136.2 | 135.5 | 135.1 | 134.7 | 134.3 | 133.9 |
| 67.5° | 117.3 | 116.5 | 115.7 | 115.3 | 115.2 | 115.0 | 114.9 | 114.8 |
| 70° | 104.4 | 103.8 | 103.1 | 102.6 | 102.3 | 102.1 | 101.9 | 101.6 |
| 72.5° | 91.5 | 90.9 | 90.4 | 90.0 | 89.8 | 89.5 | 89.3 | 89.0 |
| 75° | 72.8 | 72.5 | 72.2 | 71.9 | 71.9 | 71.8 | 71.7 | 71.6 |
| 77.5° | 55.1 | 55.1 | 55.0 | 54.8 | 54.6 | 54.3 | 54.1 | 53.9 |
| 80° | 43.9 | 43.7 | 43.6 | 43.5 | 43.3 | 43.3 | 43.2 | 43.1 |
| 82.5° | 33.8 | 33.7 | 33.7 | 33.6 | 33.5 | 33.4 | 33.3 | 33.2 |
| 85° | 19.5 | 19.5 | 19.5 | 19.5 | 19.4 | 19.3 | 19.2 | 19.1 |
| 87.5° | 9.0 | 9.0 | 9.2 | 9.2 | 9.3 | 9.3 | 9.3 | 9.3 |
| 90° | 8.9 | 9.3 | 9.8 | 10.1 | 10.3 | 10.5 | 10.6 | 10.8 |
| 92.5° | 8.6 | 9.0 | 9.5 | 9.7 | 9.8 | 9.8 | 9.9 | 9.9 |
| 95° | 8.9 | 9.3 | 9.8 | 10.1 | 10.1 | 10.2 | 10.3 | 10.4 |
| 97.5° | 9.6 | 9.6 | 9.7 | 9.7 | 9.8 | 9.9 | 10.0 | 10.1 |
| 100° | 13.1 | 11.7 | 10.4 | 9.7 | 9.8 | 9.9 | 10.0 | 10.1 |
| 102.5° | 46.8 | 32.2 | 17.6 | 10.3 | 10.3 | 10.3 | 10.3 | 10.4 |
| 105° | 113.4 | 114.2 | 114.9 | 113.8 | 110.9 | 108.1 | 105.2 | 102.3 |
| 107.5° | 140.4 | 140.7 | 141.1 | 141.4 | 141.7 | 142.0 | 142.3 | 142.6 |
| 110° | 158.7 | 158.8 | 159.0 | 159.1 | 159.4 | 159.6 | 159.9 | 160.1 |



TEST NUMBER: P332719-927

CATALOG NUMBER: S124DIW-S350D470U927-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 176.3 | 176.3 | 176.3 | 176.4 | 176.7 | 177.1 | 177.4 | 177.6 |
| 115° | 202.8 | 203.0 | 203.1 | 203.2 | 203.2 | 203.2 | 203.2 | 203.2 |
| 117.5° | 229.4 | 229.4 | 229.3 | 229.3 | 229.3 | 229.3 | 229.3 | 229.2 |
| 120° | 245.9 | 246.1 | 246.2 | 246.2 | 246.1 | 245.9 | 245.7 | 245.6 |
| 122.5° | 262.1 | 262.2 | 262.3 | 262.3 | 262.1 | 262.0 | 261.8 | 261.7 |
| 125° | 284.8 | 285.0 | 285.3 | 285.4 | 285.5 | 285.6 | 285.7 | 285.7 |
| 127.5° | 307.4 | 307.3 | 307.3 | 307.2 | 307.1 | 307.0 | 307.0 | 307.0 |
| 130° | 321.2 | 321.2 | 321.3 | 321.3 | 321.3 | 321.3 | 321.3 | 321.3 |
| 132.5° | 334.6 | 334.7 | 334.8 | 334.8 | 334.7 | 334.7 | 334.6 | 334.5 |
| 135° | 353.2 | 353.4 | 353.6 | 353.7 | 353.9 | 354.0 | 354.2 | 354.3 |
| 137.5° | 371.1 | 371.2 | 371.5 | 371.5 | 371.5 | 371.4 | 371.4 | 371.3 |
| 140° | 382.1 | 382.4 | 382.6 | 382.8 | 382.9 | 382.9 | 383.0 | 383.1 |
| 142.5° | 392.3 | 392.5 | 392.7 | 392.8 | 392.8 | 392.8 | 392.8 | 392.8 |
| 145° | 406.9 | 407.0 | 407.1 | 407.2 | 407.3 | 407.5 | 407.7 | 407.8 |
| 147.5° | 419.8 | 419.8 | 419.9 | 419.9 | 420.0 | 420.1 | 420.2 | 420.3 |
| 150° | 427.9 | 427.9 | 427.9 | 428.0 | 428.1 | 428.2 | 428.3 | 428.3 |
| 152.5° | 435.1 | 435.2 | 435.4 | 435.4 | 435.4 | 435.3 | 435.2 | 435.2 |
| 155° | 444.7 | 445.0 | 445.4 | 445.4 | 445.2 | 445.0 | 444.7 | 444.5 |
| 157.5° | 453.0 | 453.4 | 453.8 | 453.8 | 453.4 | 453.0 | 452.7 | 452.3 |
| 160° | 458.4 | 458.8 | 459.3 | 459.3 | 458.8 | 458.4 | 457.9 | 457.4 |
| 162.5° | 462.6 | 463.1 | 463.6 | 463.6 | 463.0 | 462.5 | 461.9 | 461.4 |
| 165° | 468.7 | 469.4 | 470.0 | 469.9 | 469.2 | 468.5 | 467.8 | 467.1 |
| 167.5° | 473.2 | 473.9 | 474.6 | 474.5 | 473.7 | 472.9 | 472.1 | 471.3 |
| 170° | 475.9 | 476.5 | 477.2 | 477.1 | 476.3 | 475.5 | 474.7 | 473.9 |
| 172.5° | 477.6 | 478.2 | 478.9 | 478.8 | 477.9 | 477.1 | 476.2 | 475.3 |
| 175° | 479.7 | 480.4 | 481.1 | 480.9 | 480.0 | 479.0 | 478.1 | 477.1 |
| 177.5° | 480.5 | 480.9 | 481.5 | 481.3 | 480.6 | 479.8 | 479.0 | 478.3 |
| 180° | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 | 480.0 |

(END OF REPORT)