

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: P332502-940

Luminaire Tested: **S124DIP-S350D590U940-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332502-940
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: S124DIP-S350D590U940-4F0-1E-UDD-D
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 590 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3390.5 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: Semi-Indirect

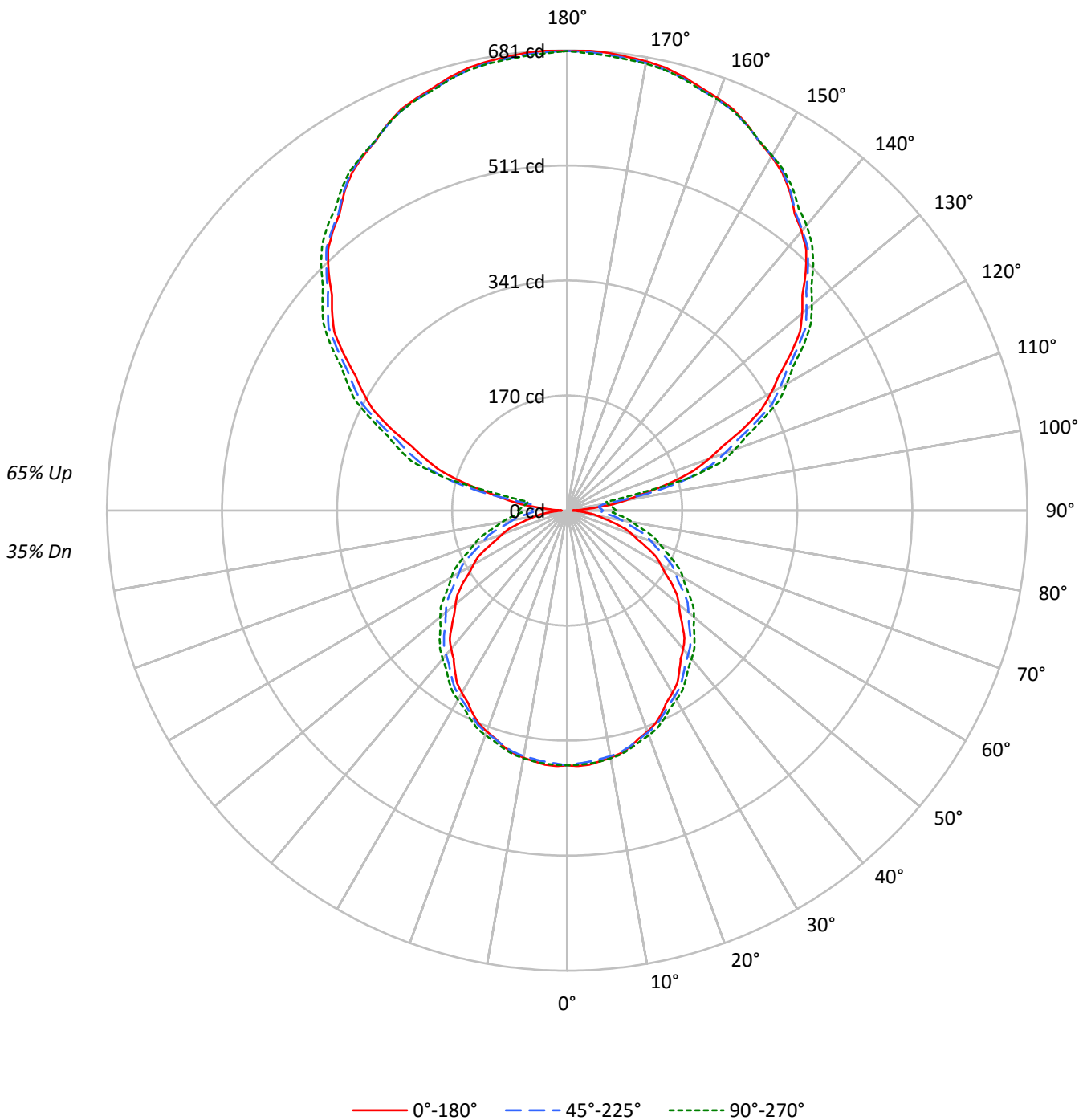
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332502-940

CATALOG NUMBER: S124DIP-S350D590U940-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P332502-940

CATALOG NUMBER: S124DIP-S350D590U940-4F0-1E-UDD-D

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 | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 75 | 75 | 75 | 58 | 58 | 58 | 42 | 42 | 42 | 35 |
| 1 | 94 | 89 | 85 | 81 | 84 | 81 | 77 | 74 | 65 | 62 | 60 | 50 | 48 | 47 | 36 | 35 | 34 | 28 |
| 2 | 85 | 77 | 71 | 66 | 76 | 70 | 65 | 60 | 56 | 52 | 49 | 43 | 41 | 38 | 32 | 30 | 28 | 23 |
| 3 | 77 | 68 | 60 | 54 | 69 | 61 | 55 | 50 | 49 | 45 | 41 | 38 | 35 | 32 | 28 | 26 | 24 | 19 |
| 4 | 71 | 60 | 52 | 46 | 63 | 54 | 47 | 42 | 44 | 38 | 34 | 34 | 30 | 27 | 25 | 22 | 20 | 16 |
| 5 | 65 | 53 | 45 | 39 | 58 | 48 | 41 | 36 | 39 | 34 | 29 | 30 | 26 | 23 | 22 | 20 | 17 | 14 |
| 6 | 59 | 47 | 39 | 33 | 53 | 43 | 36 | 31 | 35 | 29 | 26 | 27 | 23 | 20 | 20 | 17 | 15 | 12 |
| 7 | 55 | 43 | 35 | 29 | 49 | 39 | 32 | 27 | 31 | 26 | 22 | 25 | 21 | 18 | 18 | 15 | 13 | 11 |
| 8 | 51 | 38 | 31 | 26 | 46 | 35 | 28 | 24 | 29 | 23 | 20 | 22 | 19 | 16 | 17 | 14 | 12 | 9 |
| 9 | 47 | 35 | 28 | 23 | 42 | 32 | 25 | 21 | 26 | 21 | 17 | 20 | 17 | 14 | 15 | 13 | 11 | 8 |
| 10 | 44 | 32 | 25 | 20 | 40 | 29 | 23 | 19 | 24 | 19 | 16 | 19 | 15 | 13 | 14 | 12 | 10 | 8 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3043 | 3043 | 3043 |
| 5° | 3053 | 2974 | 2982 |
| 10° | 3033 | 2925 | 2923 |
| 15° | 3006 | 2869 | 2854 |
| 20° | 2965 | 2807 | 2785 |
| 25° | 2919 | 2737 | 2710 |
| 30° | 2869 | 2668 | 2634 |
| 35° | 2812 | 2597 | 2566 |
| 40° | 2768 | 2530 | 2497 |
| 45° | 2700 | 2466 | 2436 |
| 50° | 2643 | 2396 | 2373 |
| 55° | 2585 | 2328 | 2298 |
| 60° | 2493 | 2242 | 2231 |
| 65° | 2392 | 2149 | 2146 |
| 70° | 2271 | 2045 | 2049 |
| 75° | 2101 | 1926 | 1961 |
| 80° | 1913 | 1816 | 1875 |
| 85° | 1676 | 1717 | 1825 |



TEST NUMBER: P332502-940

CATALOG NUMBER: S124DIP-S350D590U940-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 35.7 | 1.1 |
| 10°-20° | 102.3 | 3.0 |
| 20°-30° | 154.6 | 4.6 |
| 30°-40° | 187.1 | 5.5 |
| 40°-50° | 197.8 | 5.8 |
| 50°-60° | 186.2 | 5.5 |
| 60°-70° | 154.4 | 4.6 |
| 70°-80° | 108.5 | 3.2 |
| 80°-90° | 63.3 | 1.9 |
| 90°-100° | 59.7 | 1.8 |
| 100°-110° | 175.3 | 5.2 |
| 110°-120° | 301.8 | 8.9 |
| 120°-130° | 370.4 | 10.9 |
| 130°-140° | 389.7 | 11.5 |
| 140°-150° | 361.2 | 10.7 |
| 150°-160° | 290.6 | 8.6 |
| 160°-170° | 187.4 | 5.5 |
| 170°-180° | 64.6 | 1.9 |
| 0°-30° | 292.6 | 8.6 |
| 0°-40° | 479.7 | 14.1 |
| 0°-60° | 863.6 | 25.5 |
| 0°-90° | 1189.8 | 35.1 |
| 90°-120° | 536.7 | 15.8 |
| 90°-150° | 1658.1 | 48.9 |
| 90°-180° | 2201.0 | 64.9 |
| 0°-180° | 3390.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 377 | 377 | 377 | 377 | 377 | |
| 5° | 377 | 376 | 373 | 376 | 376 | 36 |
| 15° | 362 | 362 | 361 | 364 | 364 | 102 |
| 25° | 331 | 333 | 335 | 339 | 340 | 152 |
| 35° | 290 | 295 | 299 | 304 | 306 | 181 |
| 45° | 241 | 249 | 257 | 264 | 267 | 187 |
| 55° | 189 | 198 | 211 | 219 | 222 | 168 |
| 65° | 131 | 144 | 159 | 169 | 173 | 130 |
| 75° | 73 | 88 | 106 | 117 | 122 | 77 |
| 85° | 22 | 40 | 59 | 71 | 76 | 24 |
| 90° | 8 | 31 | 53 | 68 | 73 | 6 |
| 95° | 33 | 31 | 48 | 62 | 67 | 40 |
| 105° | 157 | 169 | 186 | 200 | 187 | 164 |
| 115° | 288 | 294 | 307 | 317 | 320 | 284 |
| 125° | 404 | 406 | 415 | 424 | 427 | 360 |
| 135° | 499 | 499 | 504 | 511 | 515 | 385 |
| 145° | 575 | 576 | 576 | 579 | 582 | 359 |
| 155° | 630 | 631 | 629 | 631 | 630 | 291 |
| 165° | 665 | 662 | 662 | 666 | 662 | 188 |
| 175° | 680 | 677 | 678 | 682 | 676 | 65 |
| 180° | 680 | 680 | 680 | 680 | 680 | |



TEST NUMBER: P332502-940

CATALOG NUMBER: S124DIP-S350D590U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 376.9 | 376.9 | 376.9 | 376.9 | 376.9 | 376.9 | 376.9 | 376.9 | 376.9 | 376.9 | 376.9 |
| 2.5° | 378.3 | 378.0 | 377.8 | 377.6 | 377.4 | 376.9 | 376.4 | 375.8 | 375.1 | 374.5 | 375.1 |
| 5° | 377.4 | 377.0 | 376.7 | 376.5 | 376.2 | 375.8 | 375.1 | 374.4 | 373.8 | 373.1 | 373.9 |
| 7.5° | 374.2 | 374.0 | 373.8 | 373.6 | 373.4 | 373.1 | 372.6 | 372.0 | 371.5 | 371.0 | 371.8 |
| 10° | 371.4 | 371.3 | 371.2 | 371.1 | 371.0 | 370.8 | 370.3 | 369.8 | 369.3 | 368.9 | 369.7 |
| 12.5° | 367.7 | 367.7 | 367.7 | 367.7 | 367.7 | 367.5 | 367.1 | 366.8 | 366.5 | 366.2 | 366.9 |
| 15° | 361.7 | 361.9 | 361.9 | 362.0 | 362.1 | 362.0 | 361.7 | 361.4 | 361.1 | 360.9 | 361.7 |
| 17.5° | 353.6 | 353.8 | 354.1 | 354.4 | 354.6 | 354.8 | 354.7 | 354.6 | 354.6 | 354.5 | 355.4 |
| 20° | 347.8 | 348.0 | 348.4 | 348.7 | 348.9 | 349.1 | 349.2 | 349.3 | 349.4 | 349.5 | 350.4 |
| 22.5° | 341.3 | 341.7 | 342.1 | 342.4 | 342.8 | 343.0 | 343.2 | 343.4 | 343.6 | 343.8 | 344.6 |
| 25° | 330.9 | 331.4 | 332.1 | 332.6 | 333.1 | 333.6 | 333.9 | 334.1 | 334.4 | 334.7 | 335.7 |
| 27.5° | 319.2 | 320.1 | 320.9 | 321.7 | 322.5 | 323.2 | 323.6 | 324.0 | 324.5 | 324.9 | 325.8 |
| 30° | 311.5 | 312.3 | 313.0 | 313.7 | 314.5 | 315.2 | 315.8 | 316.5 | 317.2 | 317.8 | 318.9 |
| 32.5° | 303.1 | 304.0 | 304.9 | 305.8 | 306.7 | 307.5 | 308.2 | 308.9 | 309.7 | 310.4 | 311.6 |
| 35° | 289.5 | 290.7 | 291.8 | 292.9 | 294.1 | 295.1 | 296.0 | 296.9 | 297.9 | 298.8 | 300.1 |
| 37.5° | 276.0 | 277.2 | 278.6 | 279.8 | 281.2 | 282.3 | 283.6 | 284.7 | 285.9 | 287.0 | 288.4 |
| 40° | 267.2 | 268.4 | 269.7 | 270.8 | 272.1 | 273.3 | 274.6 | 276.0 | 277.2 | 278.6 | 280.0 |
| 42.5° | 257.1 | 258.4 | 259.8 | 261.2 | 262.5 | 263.9 | 265.6 | 267.1 | 268.6 | 270.1 | 271.7 |
| 45° | 241.4 | 243.2 | 245.0 | 246.7 | 248.5 | 250.3 | 252.1 | 253.9 | 255.7 | 257.4 | 259.0 |
| 47.5° | 226.5 | 228.4 | 230.2 | 232.0 | 233.8 | 235.8 | 237.8 | 240.0 | 242.0 | 244.1 | 245.7 |
| 50° | 215.7 | 217.8 | 219.8 | 221.9 | 223.9 | 226.0 | 228.1 | 230.2 | 232.2 | 234.3 | 236.1 |
| 52.5° | 204.9 | 207.0 | 209.0 | 211.1 | 213.1 | 215.3 | 217.7 | 220.1 | 222.4 | 224.8 | 226.7 |
| 55° | 189.1 | 191.1 | 193.1 | 195.0 | 197.0 | 199.4 | 202.2 | 205.0 | 207.8 | 210.6 | 212.5 |
| 57.5° | 171.5 | 173.9 | 176.3 | 178.8 | 181.2 | 183.8 | 186.6 | 189.4 | 192.2 | 195.0 | 197.2 |
| 60° | 160.0 | 162.4 | 164.9 | 167.3 | 169.7 | 172.5 | 175.6 | 178.7 | 181.7 | 184.9 | 187.0 |
| 62.5° | 148.8 | 151.5 | 154.2 | 156.9 | 159.4 | 162.4 | 165.4 | 168.5 | 171.7 | 174.8 | 176.9 |
| 65° | 130.8 | 133.8 | 136.9 | 139.8 | 142.9 | 146.0 | 149.1 | 152.3 | 155.5 | 158.7 | 161.0 |
| 67.5° | 113.5 | 116.7 | 119.9 | 123.1 | 126.3 | 129.6 | 133.0 | 136.4 | 139.8 | 143.2 | 145.6 |
| 70° | 101.7 | 104.9 | 108.1 | 111.3 | 114.5 | 117.9 | 121.5 | 125.0 | 128.6 | 132.2 | 134.6 |
| 72.5° | 90.2 | 93.5 | 96.8 | 100.0 | 103.3 | 106.8 | 110.6 | 114.4 | 118.2 | 122.0 | 124.4 |
| 75° | 72.6 | 76.1 | 79.5 | 83.0 | 86.5 | 90.2 | 94.2 | 98.1 | 102.0 | 105.9 | 108.6 |
| 77.5° | 56.2 | 59.8 | 63.5 | 67.1 | 70.8 | 74.7 | 78.8 | 83.0 | 87.1 | 91.2 | 93.9 |
| 80° | 46.0 | 49.8 | 53.5 | 57.2 | 61.0 | 64.9 | 69.1 | 73.2 | 77.3 | 81.5 | 84.3 |
| 82.5° | 35.8 | 39.8 | 43.7 | 47.6 | 51.5 | 55.5 | 59.7 | 63.8 | 67.9 | 72.1 | 74.9 |
| 85° | 22.4 | 26.3 | 30.2 | 34.2 | 38.2 | 42.2 | 46.5 | 50.6 | 54.8 | 59.1 | 61.9 |
| 87.5° | 12.8 | 16.9 | 21.0 | 25.1 | 29.1 | 33.3 | 37.5 | 41.8 | 46.2 | 50.5 | 53.3 |
| 90° | 8.3 | 13.3 | 18.3 | 23.3 | 28.3 | 33.3 | 38.2 | 43.1 | 48.1 | 53.0 | 56.4 |
| 92.5° | 12.8 | 16.2 | 19.7 | 23.2 | 26.6 | 30.8 | 35.8 | 40.7 | 45.6 | 50.6 | 53.9 |
| 95° | 33.4 | 32.7 | 31.9 | 31.2 | 30.5 | 32.1 | 36.0 | 40.0 | 44.0 | 47.9 | 51.1 |
| 97.5° | 64.4 | 69.5 | 74.5 | 79.5 | 84.6 | 82.8 | 73.9 | 65.2 | 56.4 | 47.5 | 50.0 |
| 100° | 88.1 | 92.6 | 97.0 | 101.5 | 105.9 | 102.2 | 90.2 | 78.4 | 66.4 | 54.5 | 55.1 |
| 102.5° | 114.9 | 118.5 | 122.2 | 125.8 | 129.5 | 132.1 | 133.6 | 135.1 | 136.7 | 138.2 | 119.9 |
| 105° | 156.9 | 159.4 | 162.0 | 164.6 | 167.1 | 170.4 | 174.4 | 178.5 | 182.5 | 186.5 | 189.9 |
| 107.5° | 196.6 | 198.5 | 200.4 | 202.2 | 204.1 | 207.1 | 211.2 | 215.2 | 219.2 | 223.3 | 226.0 |
| 110° | 223.1 | 224.8 | 226.4 | 228.1 | 229.7 | 232.6 | 236.5 | 240.5 | 244.4 | 248.3 | 250.7 |



TEST NUMBER: P332502-940

CATALOG NUMBER: S124DIP-S350D590U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 248.8 | 250.6 | 252.4 | 254.1 | 255.9 | 258.5 | 262.0 | 265.5 | 268.9 | 272.3 | 274.4 |
| 115° | 288.4 | 289.5 | 290.8 | 291.9 | 293.1 | 295.2 | 298.0 | 301.0 | 303.8 | 306.7 | 309.0 |
| 117.5° | 324.4 | 325.4 | 326.4 | 327.3 | 328.2 | 330.3 | 333.3 | 336.4 | 339.4 | 342.4 | 344.4 |
| 120° | 348.5 | 349.2 | 350.0 | 350.7 | 351.4 | 353.1 | 355.7 | 358.3 | 361.0 | 363.6 | 365.6 |
| 122.5° | 371.3 | 371.6 | 371.9 | 372.3 | 372.6 | 374.2 | 376.8 | 379.6 | 382.3 | 385.0 | 387.1 |
| 125° | 403.5 | 403.9 | 404.2 | 404.6 | 404.9 | 406.2 | 408.3 | 410.5 | 412.6 | 414.6 | 416.8 |
| 127.5° | 434.4 | 434.4 | 434.4 | 434.4 | 434.4 | 435.6 | 437.9 | 440.2 | 442.6 | 444.9 | 446.5 |
| 130° | 454.0 | 454.0 | 454.0 | 454.1 | 454.1 | 455.0 | 456.8 | 458.7 | 460.5 | 462.4 | 464.1 |
| 132.5° | 472.3 | 472.4 | 472.5 | 472.6 | 472.7 | 473.6 | 475.2 | 476.9 | 478.5 | 480.1 | 481.8 |
| 135° | 499.4 | 499.2 | 499.1 | 499.0 | 498.9 | 499.4 | 500.5 | 501.6 | 502.7 | 503.8 | 505.5 |
| 137.5° | 523.6 | 523.6 | 523.5 | 523.5 | 523.4 | 523.8 | 524.7 | 525.5 | 526.3 | 527.1 | 528.7 |
| 140° | 539.5 | 539.7 | 539.8 | 539.9 | 540.0 | 540.3 | 540.6 | 540.9 | 541.3 | 541.5 | 543.1 |
| 142.5° | 553.4 | 553.8 | 554.2 | 554.6 | 555.0 | 555.2 | 555.3 | 555.4 | 555.4 | 555.5 | 556.9 |
| 145° | 575.2 | 575.4 | 575.7 | 576.0 | 576.2 | 576.3 | 576.3 | 576.3 | 576.3 | 576.3 | 577.0 |
| 147.5° | 592.6 | 593.2 | 593.7 | 594.2 | 594.8 | 594.9 | 594.9 | 594.8 | 594.6 | 594.5 | 594.7 |
| 150° | 605.2 | 605.6 | 605.9 | 606.3 | 606.6 | 606.8 | 606.6 | 606.5 | 606.5 | 606.3 | 606.3 |
| 152.5° | 615.5 | 615.8 | 616.2 | 616.4 | 616.8 | 616.9 | 616.7 | 616.5 | 616.3 | 616.1 | 616.3 |
| 155° | 630.3 | 630.4 | 630.4 | 630.5 | 630.7 | 630.5 | 630.3 | 629.9 | 629.5 | 629.2 | 629.6 |
| 157.5° | 642.7 | 642.7 | 642.6 | 642.6 | 642.5 | 642.2 | 641.9 | 641.5 | 641.1 | 640.7 | 641.3 |
| 160° | 650.1 | 649.7 | 649.3 | 649.1 | 648.7 | 648.5 | 648.4 | 648.3 | 648.1 | 648.0 | 648.7 |
| 162.5° | 656.6 | 656.1 | 655.7 | 655.3 | 654.9 | 654.6 | 654.4 | 654.3 | 654.2 | 654.2 | 654.8 |
| 165° | 664.8 | 664.2 | 663.7 | 663.1 | 662.5 | 662.3 | 662.3 | 662.3 | 662.3 | 662.3 | 663.2 |
| 167.5° | 671.3 | 670.7 | 670.1 | 669.6 | 669.0 | 668.6 | 668.6 | 668.5 | 668.4 | 668.3 | 669.4 |
| 170° | 675.0 | 674.3 | 673.6 | 673.0 | 672.3 | 672.0 | 672.1 | 672.2 | 672.3 | 672.4 | 673.3 |
| 172.5° | 677.4 | 676.7 | 676.1 | 675.4 | 674.8 | 674.4 | 674.6 | 674.7 | 674.8 | 674.8 | 675.8 |
| 175° | 680.1 | 679.4 | 678.7 | 678.1 | 677.3 | 677.1 | 677.2 | 677.3 | 677.4 | 677.5 | 678.5 |
| 177.5° | 681.3 | 680.6 | 680.0 | 679.4 | 678.8 | 678.5 | 678.7 | 678.9 | 679.0 | 679.2 | 680.0 |
| 180° | 680.1 | 680.1 | 680.1 | 680.1 | 680.1 | 680.1 | 680.1 | 680.1 | 680.1 | 680.1 | 680.1 |



TEST NUMBER: P332502-940

CATALOG NUMBER: S124DIP-S350D590U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 376.9 | 376.9 | 376.9 | 376.9 | 376.9 | 376.9 | 376.9 | 376.9 |
| 2.5° | 375.6 | 376.1 | 376.7 | 376.8 | 376.8 | 376.7 | 376.7 | 376.6 |
| 5° | 374.6 | 375.3 | 376.1 | 376.5 | 376.4 | 376.2 | 376.1 | 376.0 |
| 7.5° | 372.6 | 373.4 | 374.3 | 374.7 | 374.6 | 374.5 | 374.4 | 374.3 |
| 10° | 370.6 | 371.4 | 372.3 | 372.6 | 372.6 | 372.5 | 372.4 | 372.3 |
| 12.5° | 367.7 | 368.5 | 369.3 | 369.6 | 369.6 | 369.6 | 369.6 | 369.5 |
| 15° | 362.6 | 363.4 | 364.3 | 364.6 | 364.5 | 364.4 | 364.4 | 364.3 |
| 17.5° | 356.2 | 357.1 | 358.0 | 358.4 | 358.3 | 358.2 | 358.2 | 358.1 |
| 20° | 351.3 | 352.3 | 353.2 | 353.7 | 353.7 | 353.7 | 353.7 | 353.7 |
| 22.5° | 345.6 | 346.5 | 347.5 | 348.0 | 348.2 | 348.3 | 348.5 | 348.7 |
| 25° | 336.8 | 337.8 | 338.9 | 339.4 | 339.5 | 339.6 | 339.7 | 339.7 |
| 27.5° | 326.8 | 327.8 | 328.8 | 329.3 | 329.4 | 329.5 | 329.6 | 329.8 |
| 30° | 319.9 | 320.9 | 321.9 | 322.5 | 322.7 | 323.0 | 323.2 | 323.3 |
| 32.5° | 312.7 | 314.0 | 315.1 | 315.8 | 316.0 | 316.2 | 316.4 | 316.6 |
| 35° | 301.5 | 302.7 | 304.1 | 304.9 | 305.1 | 305.4 | 305.8 | 306.0 |
| 37.5° | 289.7 | 291.0 | 292.3 | 293.2 | 293.5 | 293.7 | 294.1 | 294.4 |
| 40° | 281.4 | 282.8 | 284.2 | 285.1 | 285.4 | 285.9 | 286.2 | 286.6 |
| 42.5° | 273.2 | 274.8 | 276.3 | 277.3 | 277.6 | 277.9 | 278.2 | 278.5 |
| 45° | 260.6 | 262.3 | 263.9 | 264.8 | 265.4 | 265.8 | 266.3 | 266.7 |
| 47.5° | 247.4 | 249.0 | 250.7 | 251.7 | 252.4 | 252.9 | 253.4 | 254.0 |
| 50° | 238.0 | 239.9 | 241.7 | 243.0 | 243.5 | 244.1 | 244.7 | 245.2 |
| 52.5° | 228.5 | 230.4 | 232.3 | 233.5 | 234.1 | 234.6 | 235.2 | 235.8 |
| 55° | 214.4 | 216.2 | 218.1 | 219.4 | 219.9 | 220.4 | 221.1 | 221.6 |
| 57.5° | 199.5 | 201.7 | 203.9 | 205.3 | 205.8 | 206.3 | 206.9 | 207.4 |
| 60° | 189.2 | 191.4 | 193.5 | 194.9 | 195.7 | 196.4 | 197.2 | 198.0 |
| 62.5° | 179.1 | 181.2 | 183.3 | 184.9 | 185.6 | 186.3 | 187.1 | 187.8 |
| 65° | 163.4 | 165.8 | 168.1 | 169.6 | 170.4 | 171.1 | 171.9 | 172.6 |
| 67.5° | 148.0 | 150.4 | 152.8 | 154.4 | 155.1 | 155.8 | 156.5 | 157.3 |
| 70° | 137.1 | 139.7 | 142.2 | 143.8 | 144.5 | 145.2 | 145.8 | 146.4 |
| 72.5° | 126.9 | 129.4 | 131.8 | 133.4 | 134.1 | 134.8 | 135.6 | 136.3 |
| 75° | 111.2 | 113.8 | 116.5 | 118.2 | 119.0 | 119.8 | 120.7 | 121.5 |
| 77.5° | 96.6 | 99.2 | 101.9 | 103.7 | 104.6 | 105.5 | 106.4 | 107.3 |
| 80° | 87.1 | 89.9 | 92.7 | 94.5 | 95.2 | 96.0 | 96.8 | 97.5 |
| 82.5° | 77.8 | 80.7 | 83.6 | 85.4 | 86.2 | 87.0 | 87.9 | 88.7 |
| 85° | 64.7 | 67.5 | 70.4 | 72.2 | 73.1 | 74.1 | 75.0 | 76.0 |
| 87.5° | 56.2 | 59.0 | 61.9 | 63.8 | 64.6 | 65.5 | 66.3 | 67.2 |
| 90° | 59.7 | 63.1 | 66.6 | 68.8 | 69.7 | 70.7 | 71.7 | 72.7 |
| 92.5° | 57.2 | 60.5 | 63.8 | 65.9 | 66.7 | 67.5 | 68.3 | 69.1 |
| 95° | 54.3 | 57.5 | 60.7 | 62.9 | 63.8 | 64.7 | 65.7 | 66.7 |
| 97.5° | 52.6 | 55.1 | 57.6 | 59.4 | 60.3 | 61.2 | 62.2 | 63.0 |
| 100° | 55.6 | 56.3 | 56.9 | 57.6 | 58.3 | 59.1 | 59.9 | 60.6 |
| 102.5° | 101.7 | 83.4 | 65.1 | 56.4 | 57.2 | 57.9 | 58.7 | 59.4 |
| 105° | 193.3 | 196.6 | 200.0 | 200.0 | 196.7 | 193.4 | 190.1 | 186.7 |
| 107.5° | 228.9 | 231.7 | 234.5 | 236.5 | 237.6 | 238.6 | 239.8 | 240.9 |
| 110° | 253.2 | 255.6 | 257.9 | 259.7 | 260.7 | 261.8 | 262.9 | 264.0 |



TEST NUMBER: P332502-940

CATALOG NUMBER: S124DIP-S350D590U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 276.4 | 278.4 | 280.4 | 282.0 | 283.3 | 284.5 | 285.6 | 286.8 |
| 115° | 311.3 | 313.6 | 315.8 | 317.4 | 318.0 | 318.7 | 319.3 | 319.9 |
| 117.5° | 346.3 | 348.1 | 350.1 | 351.3 | 352.0 | 352.8 | 353.5 | 354.2 |
| 120° | 367.7 | 369.9 | 371.9 | 373.3 | 373.8 | 374.3 | 374.8 | 375.3 |
| 122.5° | 389.1 | 391.1 | 393.1 | 394.3 | 394.8 | 395.2 | 395.7 | 396.1 |
| 125° | 418.9 | 421.1 | 423.1 | 424.5 | 425.3 | 425.9 | 426.6 | 427.2 |
| 127.5° | 448.2 | 449.8 | 451.4 | 452.5 | 453.0 | 453.5 | 454.1 | 454.7 |
| 130° | 465.9 | 467.7 | 469.6 | 470.7 | 471.3 | 471.8 | 472.4 | 473.0 |
| 132.5° | 483.6 | 485.3 | 487.1 | 488.1 | 488.6 | 489.1 | 489.5 | 490.0 |
| 135° | 507.3 | 509.0 | 510.7 | 511.9 | 512.7 | 513.5 | 514.3 | 515.1 |
| 137.5° | 530.3 | 531.9 | 533.6 | 534.6 | 534.9 | 535.4 | 535.7 | 536.2 |
| 140° | 544.7 | 546.3 | 547.8 | 548.8 | 549.5 | 550.0 | 550.6 | 551.2 |
| 142.5° | 558.1 | 559.5 | 560.8 | 561.7 | 562.0 | 562.5 | 562.9 | 563.3 |
| 145° | 577.7 | 578.4 | 579.0 | 579.6 | 580.2 | 580.9 | 581.5 | 582.0 |
| 147.5° | 594.9 | 595.0 | 595.2 | 595.5 | 595.8 | 596.3 | 596.7 | 597.1 |
| 150° | 606.3 | 606.3 | 606.3 | 606.4 | 606.5 | 606.6 | 606.7 | 606.8 |
| 152.5° | 616.4 | 616.6 | 616.8 | 616.9 | 616.8 | 616.7 | 616.6 | 616.6 |
| 155° | 630.1 | 630.5 | 631.0 | 631.1 | 630.7 | 630.4 | 630.1 | 629.7 |
| 157.5° | 641.9 | 642.5 | 643.0 | 643.0 | 642.5 | 641.9 | 641.3 | 640.7 |
| 160° | 649.3 | 650.1 | 650.8 | 650.8 | 650.1 | 649.3 | 648.7 | 648.0 |
| 162.5° | 655.5 | 656.1 | 656.8 | 656.8 | 656.0 | 655.2 | 654.5 | 653.7 |
| 165° | 664.1 | 664.9 | 665.9 | 665.8 | 664.8 | 663.8 | 662.8 | 661.7 |
| 167.5° | 670.4 | 671.4 | 672.3 | 672.3 | 671.2 | 670.0 | 668.9 | 667.8 |
| 170° | 674.2 | 675.1 | 676.1 | 675.9 | 674.8 | 673.7 | 672.5 | 671.5 |
| 172.5° | 676.7 | 677.6 | 678.5 | 678.3 | 677.2 | 675.9 | 674.7 | 673.4 |
| 175° | 679.6 | 680.6 | 681.6 | 681.4 | 680.1 | 678.7 | 677.3 | 676.0 |
| 177.5° | 680.7 | 681.4 | 682.2 | 682.0 | 680.9 | 679.8 | 678.7 | 677.6 |
| 180° | 680.1 | 680.1 | 680.1 | 680.1 | 680.1 | 680.1 | 680.1 | 680.1 |

(END OF REPORT)