

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: P332870

Luminaire Tested: **S124RDIP-S350D365U835-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332870
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIP-S350D365U835-4F0-1E-UDD-F4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2737.6 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: General Diffuse

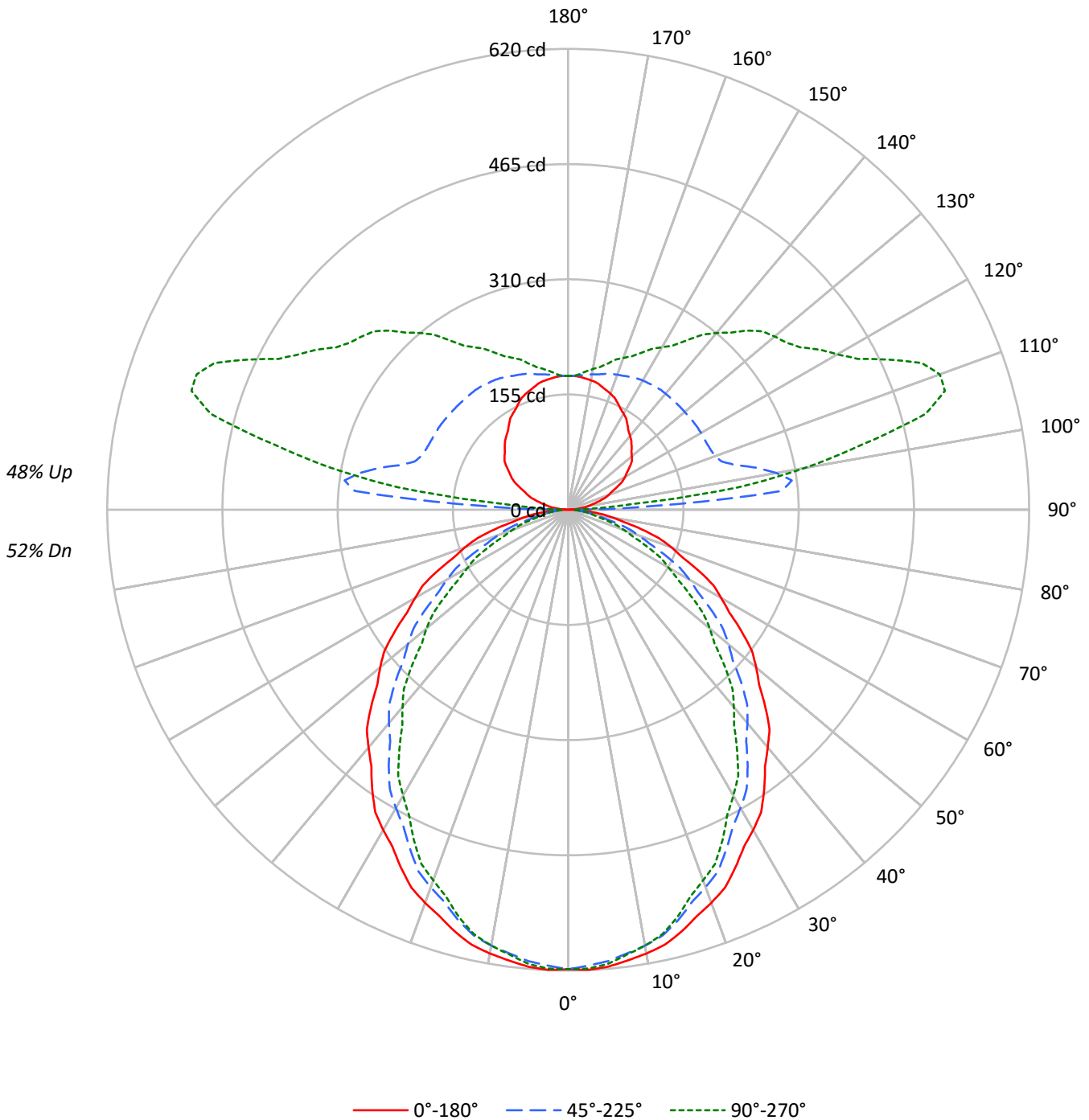
Input Watts (W): 20.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332870

CATALOG NUMBER: S124RDIP-S350D365U835-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P332870

CATALOG NUMBER: S124RDIP-S350D365U835-4F0-1E-UDD-F4

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 | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 85 | 85 | 85 | 71 | 71 | 71 | 58 | 58 | 58 | 52 |
| 1 | 99 | 94 | 91 | 87 | 91 | 87 | 84 | 81 | 75 | 72 | 70 | 63 | 61 | 60 | 52 | 51 | 50 | 45 |
| 2 | 90 | 83 | 77 | 72 | 83 | 77 | 72 | 67 | 66 | 62 | 58 | 55 | 53 | 50 | 46 | 44 | 42 | 38 |
| 3 | 82 | 73 | 66 | 60 | 76 | 68 | 61 | 56 | 58 | 53 | 49 | 49 | 46 | 43 | 41 | 38 | 36 | 32 |
| 4 | 75 | 65 | 57 | 51 | 69 | 60 | 53 | 48 | 52 | 47 | 42 | 44 | 40 | 37 | 37 | 34 | 31 | 28 |
| 5 | 69 | 58 | 50 | 44 | 64 | 54 | 47 | 41 | 46 | 41 | 37 | 40 | 35 | 32 | 33 | 30 | 28 | 24 |
| 6 | 64 | 52 | 44 | 38 | 59 | 48 | 41 | 36 | 42 | 36 | 32 | 36 | 32 | 28 | 30 | 27 | 24 | 22 |
| 7 | 59 | 47 | 39 | 34 | 55 | 44 | 37 | 32 | 38 | 33 | 28 | 33 | 28 | 25 | 28 | 24 | 22 | 19 |
| 8 | 55 | 43 | 35 | 30 | 51 | 40 | 33 | 28 | 35 | 29 | 25 | 30 | 26 | 22 | 25 | 22 | 20 | 17 |
| 9 | 51 | 39 | 32 | 27 | 47 | 37 | 30 | 25 | 32 | 27 | 23 | 28 | 23 | 20 | 24 | 20 | 18 | 16 |
| 10 | 48 | 36 | 29 | 24 | 44 | 34 | 27 | 23 | 30 | 24 | 21 | 26 | 21 | 18 | 22 | 19 | 16 | 14 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4991 | 4991 | 4991 |
| 5° | 5002 | 4941 | 4971 |
| 10° | 4970 | 4882 | 4882 |
| 15° | 4914 | 4779 | 4743 |
| 20° | 4835 | 4643 | 4558 |
| 25° | 4735 | 4486 | 4372 |
| 30° | 4638 | 4320 | 4139 |
| 35° | 4529 | 4147 | 3905 |
| 40° | 4400 | 3951 | 3652 |
| 45° | 4280 | 3756 | 3394 |
| 50° | 4143 | 3532 | 3121 |
| 55° | 3997 | 3298 | 2825 |
| 60° | 3836 | 3042 | 2522 |
| 65° | 3689 | 2722 | 2223 |
| 70° | 3474 | 2367 | 1888 |
| 75° | 3203 | 1965 | 1535 |
| 80° | 2794 | 1497 | 1409 |
| 85° | 2371 | 1362 | 1269 |



TEST NUMBER: P332870

CATALOG NUMBER: S124RDIP-S350D365U835-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.1 | 2.1 |
| 10°-20° | 161.9 | 5.9 |
| 20°-30° | 233.8 | 8.5 |
| 30°-40° | 265.1 | 9.7 |
| 40°-50° | 255.9 | 9.3 |
| 50°-60° | 212.8 | 7.8 |
| 60°-70° | 147.0 | 5.4 |
| 70°-80° | 74.5 | 2.7 |
| 80°-90° | 20.1 | 0.7 |
| 90°-100° | 129.9 | 4.7 |
| 100°-110° | 270.4 | 9.9 |
| 110°-120° | 242.2 | 8.8 |
| 120°-130° | 203.7 | 7.4 |
| 130°-140° | 169.9 | 6.2 |
| 140°-150° | 129.8 | 4.7 |
| 150°-160° | 91.2 | 3.3 |
| 160°-170° | 53.7 | 2.0 |
| 170°-180° | 17.5 | 0.6 |
| 0°-30° | 453.8 | 16.6 |
| 0°-40° | 718.9 | 26.3 |
| 0°-60° | 1187.7 | 43.4 |
| 0°-90° | 1429.2 | 52.2 |
| 90°-120° | 642.6 | 23.5 |
| 90°-150° | 1146.0 | 41.9 |
| 90°-180° | 1308.0 | 47.8 |
| 0°-180° | 2737.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 618 | 618 | 618 | 618 | 618 | |
| 5° | 617 | 615 | 610 | 614 | 613 | 59 |
| 15° | 588 | 583 | 572 | 571 | 568 | 166 |
| 25° | 532 | 522 | 504 | 496 | 491 | 245 |
| 35° | 460 | 444 | 421 | 405 | 396 | 287 |
| 45° | 375 | 357 | 329 | 307 | 297 | 289 |
| 55° | 284 | 264 | 234 | 211 | 201 | 254 |
| 65° | 193 | 172 | 142 | 123 | 116 | 191 |
| 75° | 103 | 85 | 63 | 53 | 49 | 108 |
| 85° | 26 | 16 | 15 | 14 | 14 | 29 |
| 90° | 0 | 3 | 6 | 7 | 7 | 2 |
| 95° | 12 | 37 | 288 | 143 | 86 | 13 |
| 105° | 41 | 60 | 232 | 499 | 497 | 44 |
| 115° | 73 | 91 | 207 | 397 | 478 | 72 |
| 125° | 101 | 121 | 206 | 338 | 381 | 90 |
| 135° | 120 | 144 | 204 | 300 | 341 | 93 |
| 145° | 139 | 159 | 203 | 253 | 278 | 87 |
| 155° | 158 | 171 | 197 | 223 | 233 | 73 |
| 165° | 172 | 177 | 189 | 200 | 203 | 49 |
| 175° | 180 | 180 | 181 | 184 | 183 | 17 |
| 180° | 180 | 180 | 180 | 180 | 180 | |



TEST NUMBER: P332870

CATALOG NUMBER: S124RDIP-S350D365U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 618.2 | 618.2 | 618.2 | 618.2 | 618.2 | 618.2 | 618.2 | 618.2 | 618.2 | 618.2 | 618.2 |
| 2.5° | 619.7 | 619.3 | 619.0 | 618.7 | 618.3 | 617.7 | 616.8 | 615.9 | 614.9 | 614.0 | 614.9 |
| 5° | 617.2 | 616.8 | 616.4 | 616.0 | 615.5 | 614.7 | 613.4 | 612.2 | 610.9 | 609.7 | 610.7 |
| 7.5° | 611.6 | 611.2 | 610.8 | 610.3 | 609.9 | 608.8 | 607.2 | 605.5 | 603.9 | 602.3 | 602.9 |
| 10° | 606.3 | 605.8 | 605.3 | 604.8 | 604.2 | 603.0 | 601.1 | 599.2 | 597.3 | 595.5 | 595.9 |
| 12.5° | 599.5 | 598.9 | 598.3 | 597.7 | 597.1 | 595.7 | 593.4 | 591.2 | 589.0 | 586.7 | 587.0 |
| 15° | 587.9 | 586.9 | 586.0 | 585.0 | 584.1 | 582.3 | 579.7 | 577.0 | 574.4 | 571.8 | 571.6 |
| 17.5° | 573.8 | 572.4 | 571.0 | 569.7 | 568.3 | 566.0 | 562.9 | 559.7 | 556.6 | 553.4 | 552.8 |
| 20° | 562.8 | 561.4 | 560.1 | 558.7 | 557.3 | 554.9 | 551.3 | 547.7 | 544.1 | 540.5 | 539.7 |
| 22.5° | 550.7 | 549.1 | 547.6 | 546.1 | 544.5 | 541.8 | 538.0 | 534.2 | 530.4 | 526.5 | 525.3 |
| 25° | 531.6 | 529.7 | 527.8 | 525.9 | 524.0 | 520.9 | 516.6 | 512.3 | 507.9 | 503.6 | 501.8 |
| 27.5° | 511.5 | 509.1 | 506.7 | 504.4 | 502.0 | 498.5 | 493.9 | 489.3 | 484.7 | 480.1 | 477.8 |
| 30° | 497.5 | 494.8 | 492.2 | 489.6 | 487.0 | 483.2 | 478.2 | 473.3 | 468.3 | 463.4 | 460.8 |
| 32.5° | 482.7 | 479.7 | 476.8 | 473.8 | 470.8 | 466.8 | 461.7 | 456.6 | 451.5 | 446.4 | 443.3 |
| 35° | 459.6 | 456.2 | 452.9 | 449.5 | 446.1 | 441.8 | 436.6 | 431.3 | 426.1 | 420.8 | 417.2 |
| 37.5° | 434.9 | 431.4 | 428.0 | 424.5 | 421.0 | 416.4 | 410.5 | 404.7 | 398.9 | 393.1 | 389.1 |
| 40° | 417.5 | 414.0 | 410.5 | 407.1 | 403.6 | 398.9 | 392.9 | 386.9 | 380.9 | 374.9 | 370.5 |
| 42.5° | 400.8 | 397.2 | 393.5 | 389.9 | 386.3 | 381.3 | 375.1 | 368.8 | 362.6 | 356.3 | 351.8 |
| 45° | 374.9 | 371.0 | 367.1 | 363.2 | 359.3 | 354.2 | 347.9 | 341.6 | 335.3 | 329.0 | 323.8 |
| 47.5° | 348.1 | 344.1 | 340.1 | 336.0 | 332.0 | 326.7 | 320.2 | 313.6 | 307.0 | 300.5 | 295.1 |
| 50° | 329.9 | 325.8 | 321.7 | 317.6 | 313.5 | 308.1 | 301.4 | 294.6 | 287.9 | 281.2 | 275.9 |
| 52.5° | 311.4 | 307.3 | 303.3 | 299.3 | 295.3 | 289.8 | 282.9 | 276.0 | 269.1 | 262.2 | 256.9 |
| 55° | 284.0 | 279.8 | 275.6 | 271.4 | 267.2 | 261.6 | 254.8 | 248.0 | 241.1 | 234.3 | 228.8 |
| 57.5° | 256.9 | 252.5 | 248.2 | 243.8 | 239.4 | 233.9 | 227.1 | 220.4 | 213.7 | 206.9 | 201.4 |
| 60° | 237.6 | 233.4 | 229.2 | 225.0 | 220.8 | 215.3 | 208.6 | 201.8 | 195.1 | 188.4 | 182.9 |
| 62.5° | 220.2 | 215.8 | 211.4 | 207.1 | 202.7 | 197.1 | 190.2 | 183.3 | 176.4 | 169.5 | 164.4 |
| 65° | 193.1 | 188.6 | 184.1 | 179.6 | 175.0 | 169.4 | 162.7 | 155.9 | 149.2 | 142.5 | 138.0 |
| 67.5° | 165.0 | 160.7 | 156.3 | 152.0 | 147.7 | 142.4 | 136.1 | 129.9 | 123.6 | 117.4 | 113.5 |
| 70° | 147.2 | 142.8 | 138.4 | 134.0 | 129.5 | 124.3 | 118.3 | 112.3 | 106.3 | 100.3 | 96.9 |
| 72.5° | 128.3 | 124.3 | 120.3 | 116.3 | 112.3 | 107.5 | 101.8 | 96.1 | 90.5 | 84.8 | 81.9 |
| 75° | 102.7 | 98.8 | 94.9 | 91.0 | 87.1 | 82.7 | 77.8 | 72.8 | 67.9 | 63.0 | 60.5 |
| 77.5° | 76.8 | 73.5 | 70.2 | 66.9 | 63.6 | 59.9 | 55.9 | 51.9 | 47.9 | 43.9 | 42.5 |
| 80° | 60.1 | 57.1 | 54.0 | 51.0 | 47.9 | 44.8 | 41.7 | 38.5 | 35.3 | 32.2 | 31.9 |
| 82.5° | 45.7 | 42.9 | 40.1 | 37.3 | 34.5 | 32.2 | 30.4 | 28.6 | 26.8 | 25.0 | 24.8 |
| 85° | 25.6 | 23.5 | 21.4 | 19.2 | 17.1 | 15.9 | 15.6 | 15.3 | 15.0 | 14.7 | 14.5 |
| 87.5° | 8.8 | 8.2 | 7.8 | 7.2 | 6.6 | 6.2 | 6.5 | 6.5 | 6.5 | 6.6 | 6.4 |
| 90° | 0.4 | 1.1 | 2.1 | 2.5 | 2.8 | 2.8 | 4.9 | 4.9 | 5.7 | 6.4 | 6.0 |
| 92.5° | 4.0 | 5.9 | 9.2 | 13.5 | 18.7 | 26.0 | 44.0 | 71.4 | 98.1 | 112.1 | 93.4 |
| 95° | 11.7 | 12.7 | 16.3 | 20.9 | 29.3 | 44.2 | 74.9 | 132.9 | 217.4 | 288.0 | 296.2 |
| 97.5° | 20.9 | 20.9 | 24.0 | 28.2 | 35.5 | 47.9 | 71.6 | 119.5 | 203.4 | 303.4 | 372.1 |
| 100° | 26.9 | 26.9 | 29.3 | 33.6 | 40.3 | 51.6 | 72.5 | 112.4 | 184.5 | 284.2 | 374.6 |
| 102.5° | 32.5 | 33.1 | 35.3 | 39.2 | 45.7 | 56.4 | 75.3 | 110.4 | 171.8 | 260.1 | 353.4 |
| 105° | 41.4 | 42.4 | 44.2 | 48.4 | 54.8 | 65.0 | 82.0 | 111.3 | 160.8 | 231.8 | 314.9 |
| 107.5° | 51.1 | 51.8 | 53.6 | 58.1 | 64.2 | 74.3 | 89.8 | 116.6 | 158.8 | 216.0 | 283.8 |
| 110° | 57.6 | 58.3 | 60.1 | 64.3 | 70.7 | 80.2 | 95.8 | 120.5 | 159.4 | 210.6 | 268.3 |



TEST NUMBER: P332870

CATALOG NUMBER: S124RDIP-S350D365U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 63.8 | 64.5 | 66.6 | 70.5 | 76.9 | 86.4 | 101.4 | 124.8 | 161.1 | 208.1 | 259.5 |
| 115° | 72.8 | 73.9 | 76.3 | 79.9 | 86.6 | 96.1 | 110.3 | 131.5 | 164.3 | 206.8 | 251.3 |
| 117.5° | 82.1 | 83.1 | 85.3 | 89.2 | 95.5 | 105.4 | 118.8 | 138.3 | 167.8 | 206.4 | 247.6 |
| 120° | 88.4 | 89.1 | 91.5 | 95.4 | 101.4 | 111.3 | 124.8 | 143.1 | 170.4 | 206.4 | 245.6 |
| 122.5° | 94.0 | 94.7 | 97.2 | 100.8 | 107.4 | 117.0 | 130.4 | 147.7 | 172.9 | 206.1 | 243.4 |
| 125° | 101.4 | 102.8 | 105.0 | 108.9 | 115.6 | 125.5 | 138.2 | 154.4 | 176.7 | 205.7 | 239.6 |
| 127.5° | 108.0 | 109.1 | 111.7 | 116.1 | 123.1 | 133.1 | 145.4 | 160.3 | 179.8 | 204.9 | 234.6 |
| 130° | 111.7 | 113.1 | 115.9 | 121.2 | 127.9 | 138.2 | 150.2 | 164.0 | 182.0 | 204.6 | 231.5 |
| 132.5° | 115.4 | 116.5 | 120.2 | 125.2 | 132.5 | 142.1 | 154.2 | 167.7 | 184.0 | 204.4 | 228.7 |
| 135° | 120.5 | 121.9 | 125.5 | 131.5 | 138.9 | 148.1 | 159.7 | 172.5 | 187.0 | 203.9 | 224.4 |
| 137.5° | 125.7 | 127.0 | 130.9 | 136.6 | 144.3 | 153.1 | 164.0 | 175.9 | 188.7 | 203.9 | 220.8 |
| 140° | 129.4 | 130.4 | 134.3 | 140.3 | 147.7 | 156.2 | 166.8 | 178.1 | 190.1 | 203.6 | 218.8 |
| 142.5° | 133.3 | 134.4 | 138.0 | 143.7 | 150.8 | 159.0 | 169.4 | 179.8 | 191.3 | 203.6 | 217.1 |
| 145° | 138.9 | 140.0 | 143.5 | 148.4 | 155.2 | 162.9 | 172.1 | 181.7 | 191.9 | 202.9 | 214.2 |
| 147.5° | 145.2 | 145.5 | 148.7 | 153.7 | 159.3 | 166.3 | 174.9 | 183.3 | 192.3 | 201.6 | 211.6 |
| 150° | 149.1 | 149.5 | 152.3 | 156.6 | 161.9 | 168.6 | 176.4 | 184.1 | 192.3 | 200.7 | 209.6 |
| 152.5° | 152.8 | 152.9 | 155.7 | 159.7 | 164.4 | 170.6 | 177.5 | 184.7 | 191.7 | 199.3 | 207.3 |
| 155° | 158.0 | 158.3 | 160.5 | 164.0 | 167.9 | 173.2 | 179.2 | 185.2 | 190.9 | 197.2 | 203.9 |
| 157.5° | 163.0 | 163.0 | 165.0 | 167.7 | 171.1 | 175.3 | 180.4 | 185.2 | 189.9 | 195.0 | 200.5 |
| 160° | 166.1 | 166.1 | 167.5 | 170.0 | 172.8 | 176.7 | 181.0 | 185.2 | 189.1 | 193.3 | 197.9 |
| 162.5° | 168.9 | 168.7 | 169.8 | 172.0 | 174.5 | 177.6 | 181.5 | 185.2 | 188.2 | 191.6 | 195.7 |
| 165° | 172.1 | 172.1 | 172.8 | 174.6 | 176.4 | 178.5 | 181.7 | 184.5 | 186.6 | 189.1 | 191.9 |
| 167.5° | 175.3 | 174.9 | 175.3 | 176.6 | 177.6 | 179.3 | 181.6 | 183.6 | 184.9 | 186.5 | 188.5 |
| 170° | 176.7 | 176.4 | 176.7 | 177.8 | 178.5 | 179.5 | 181.3 | 183.1 | 183.8 | 184.8 | 186.3 |
| 172.5° | 178.1 | 177.8 | 177.8 | 178.6 | 179.0 | 179.8 | 181.0 | 182.5 | 182.7 | 183.1 | 184.3 |
| 175° | 179.5 | 179.2 | 179.2 | 179.5 | 179.9 | 179.9 | 180.6 | 181.7 | 181.3 | 181.3 | 182.0 |
| 177.5° | 180.2 | 179.9 | 179.6 | 179.9 | 179.9 | 179.9 | 180.2 | 180.7 | 180.2 | 180.2 | 180.5 |
| 180° | 179.9 | 179.9 | 179.9 | 179.9 | 179.9 | 179.9 | 179.9 | 179.9 | 179.9 | 179.9 | 179.9 |



TEST NUMBER: P332870

CATALOG NUMBER: S124RDIP-S350D365U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 618.2 | 618.2 | 618.2 | 618.2 | 618.2 | 618.2 | 618.2 | 618.2 |
| 2.5° | 615.9 | 616.8 | 617.7 | 618.1 | 618.0 | 618.0 | 617.9 | 617.8 |
| 5° | 611.8 | 612.8 | 613.9 | 614.3 | 614.1 | 613.9 | 613.6 | 613.4 |
| 7.5° | 603.6 | 604.3 | 605.0 | 605.1 | 604.8 | 604.5 | 604.1 | 603.8 |
| 10° | 596.3 | 596.7 | 597.1 | 597.1 | 596.7 | 596.3 | 595.9 | 595.5 |
| 12.5° | 587.2 | 587.5 | 587.8 | 587.6 | 587.0 | 586.4 | 585.8 | 585.2 |
| 15° | 571.4 | 571.2 | 570.9 | 570.5 | 569.7 | 569.0 | 568.3 | 567.5 |
| 17.5° | 552.2 | 551.7 | 551.1 | 550.2 | 549.1 | 548.0 | 546.9 | 545.8 |
| 20° | 538.9 | 538.0 | 537.2 | 536.1 | 534.7 | 533.3 | 532.0 | 530.6 |
| 22.5° | 524.0 | 522.7 | 521.5 | 520.3 | 519.2 | 518.1 | 517.0 | 515.8 |
| 25° | 500.0 | 498.3 | 496.5 | 495.1 | 494.0 | 492.9 | 491.9 | 490.8 |
| 27.5° | 475.6 | 473.4 | 471.2 | 469.4 | 467.8 | 466.3 | 464.8 | 463.3 |
| 30° | 458.1 | 455.5 | 452.9 | 450.7 | 449.0 | 447.4 | 445.7 | 444.0 |
| 32.5° | 440.3 | 437.2 | 434.2 | 431.8 | 430.2 | 428.6 | 427.0 | 425.4 |
| 35° | 413.6 | 410.1 | 406.5 | 403.8 | 401.9 | 400.0 | 398.1 | 396.2 |
| 37.5° | 385.1 | 381.1 | 377.1 | 374.1 | 372.2 | 370.3 | 368.4 | 366.5 |
| 40° | 366.0 | 361.6 | 357.2 | 354.1 | 352.2 | 350.3 | 348.4 | 346.5 |
| 42.5° | 347.3 | 342.8 | 338.3 | 335.1 | 333.1 | 331.1 | 329.1 | 327.2 |
| 45° | 318.7 | 313.5 | 308.3 | 304.8 | 302.9 | 301.0 | 299.1 | 297.3 |
| 47.5° | 289.8 | 284.4 | 279.1 | 275.4 | 273.3 | 271.2 | 269.1 | 267.1 |
| 50° | 270.6 | 265.4 | 260.1 | 256.5 | 254.5 | 252.5 | 250.5 | 248.5 |
| 52.5° | 251.5 | 246.2 | 240.9 | 237.1 | 235.1 | 233.0 | 230.9 | 228.8 |
| 55° | 223.4 | 217.9 | 212.4 | 208.7 | 206.7 | 204.7 | 202.7 | 200.7 |
| 57.5° | 195.8 | 190.3 | 184.7 | 181.2 | 179.7 | 178.2 | 176.6 | 175.1 |
| 60° | 177.4 | 172.0 | 166.5 | 162.9 | 161.2 | 159.6 | 157.9 | 156.2 |
| 62.5° | 159.4 | 154.3 | 149.3 | 146.1 | 144.7 | 143.4 | 142.0 | 140.7 |
| 65° | 133.4 | 128.9 | 124.4 | 121.5 | 120.2 | 119.0 | 117.7 | 116.4 |
| 67.5° | 109.6 | 105.7 | 101.8 | 99.2 | 97.8 | 96.4 | 95.0 | 93.6 |
| 70° | 93.4 | 89.9 | 86.5 | 84.2 | 83.1 | 82.1 | 81.0 | 80.0 |
| 72.5° | 78.9 | 75.9 | 73.0 | 71.0 | 70.0 | 69.1 | 68.1 | 67.1 |
| 75° | 58.1 | 55.7 | 53.3 | 51.8 | 51.1 | 50.5 | 49.9 | 49.2 |
| 77.5° | 41.1 | 39.7 | 38.3 | 37.5 | 37.3 | 37.1 | 36.9 | 36.7 |
| 80° | 31.6 | 31.2 | 30.9 | 30.7 | 30.6 | 30.5 | 30.4 | 30.3 |
| 82.5° | 24.5 | 24.3 | 24.1 | 23.9 | 23.8 | 23.7 | 23.6 | 23.5 |
| 85° | 14.3 | 14.0 | 13.8 | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 |
| 87.5° | 6.4 | 6.4 | 6.4 | 6.4 | 6.5 | 6.7 | 6.7 | 6.8 |
| 90° | 6.4 | 6.7 | 7.1 | 7.1 | 7.4 | 7.8 | 7.4 | 7.4 |
| 92.5° | 69.4 | 52.2 | 41.6 | 34.5 | 30.3 | 28.4 | 27.2 | 27.2 |
| 95° | 261.9 | 207.1 | 159.7 | 125.5 | 108.1 | 97.2 | 90.8 | 86.2 |
| 97.5° | 386.9 | 366.6 | 332.0 | 295.1 | 269.7 | 248.5 | 237.9 | 230.5 |
| 100° | 426.2 | 433.3 | 416.0 | 389.8 | 359.1 | 337.5 | 326.9 | 324.1 |
| 102.5° | 424.3 | 459.3 | 464.3 | 453.4 | 434.6 | 419.0 | 407.8 | 405.5 |
| 105° | 395.8 | 457.0 | 492.0 | 506.5 | 507.2 | 504.3 | 499.4 | 497.3 |
| 107.5° | 355.5 | 420.6 | 469.8 | 501.4 | 518.8 | 526.9 | 530.4 | 531.3 |
| 110° | 331.2 | 392.3 | 443.6 | 482.4 | 507.5 | 522.4 | 528.7 | 531.9 |



TEST NUMBER: P332870

CATALOG NUMBER: S124RDIP-S350D365U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 313.3 | 367.4 | 415.8 | 454.7 | 483.2 | 501.2 | 510.1 | 515.2 |
| 115° | 295.5 | 338.9 | 380.3 | 414.2 | 442.1 | 463.3 | 474.7 | 477.5 |
| 117.5° | 286.7 | 322.7 | 355.2 | 384.0 | 407.8 | 425.6 | 437.0 | 439.2 |
| 120° | 282.7 | 315.6 | 343.9 | 369.0 | 389.1 | 404.7 | 413.9 | 417.8 |
| 122.5° | 279.3 | 311.1 | 336.8 | 358.8 | 375.8 | 389.1 | 396.9 | 400.8 |
| 125° | 273.6 | 303.9 | 328.3 | 347.8 | 361.9 | 372.2 | 378.9 | 381.0 |
| 127.5° | 266.5 | 295.5 | 319.9 | 338.3 | 352.5 | 361.6 | 367.3 | 369.4 |
| 130° | 260.8 | 288.8 | 312.8 | 331.5 | 346.0 | 354.8 | 360.5 | 362.6 |
| 132.5° | 254.9 | 281.1 | 304.6 | 323.3 | 337.5 | 347.5 | 352.9 | 355.0 |
| 135° | 246.7 | 269.7 | 291.2 | 308.9 | 323.0 | 332.9 | 338.6 | 340.7 |
| 137.5° | 239.3 | 258.7 | 276.9 | 292.8 | 306.1 | 315.8 | 320.5 | 323.0 |
| 140° | 235.0 | 251.6 | 267.5 | 282.4 | 294.8 | 302.5 | 307.5 | 310.3 |
| 142.5° | 231.1 | 245.7 | 259.3 | 272.2 | 283.2 | 290.4 | 294.8 | 296.7 |
| 145° | 225.5 | 237.5 | 248.1 | 258.0 | 266.8 | 272.8 | 276.4 | 278.1 |
| 147.5° | 220.9 | 230.4 | 238.9 | 246.7 | 253.2 | 258.4 | 261.0 | 261.7 |
| 150° | 218.1 | 226.2 | 233.3 | 239.6 | 245.3 | 249.9 | 252.0 | 252.3 |
| 152.5° | 215.0 | 222.0 | 228.5 | 233.7 | 238.5 | 242.2 | 243.5 | 243.9 |
| 155° | 210.3 | 215.9 | 221.2 | 225.5 | 229.0 | 231.8 | 232.9 | 232.9 |
| 157.5° | 205.3 | 210.0 | 214.5 | 217.9 | 220.5 | 222.7 | 223.3 | 223.3 |
| 160° | 202.2 | 206.0 | 209.9 | 212.8 | 214.9 | 217.0 | 217.4 | 217.4 |
| 162.5° | 199.1 | 202.4 | 205.4 | 208.0 | 209.5 | 211.6 | 212.0 | 211.7 |
| 165° | 194.7 | 196.9 | 199.3 | 201.1 | 202.5 | 203.9 | 203.6 | 203.2 |
| 167.5° | 190.6 | 192.2 | 194.2 | 195.2 | 195.9 | 196.9 | 196.8 | 196.5 |
| 170° | 188.0 | 189.1 | 190.5 | 191.6 | 192.3 | 192.6 | 192.3 | 192.3 |
| 172.5° | 185.8 | 186.5 | 187.4 | 188.2 | 188.6 | 188.9 | 188.6 | 188.0 |
| 175° | 182.7 | 183.1 | 183.8 | 183.8 | 183.8 | 184.5 | 183.8 | 183.1 |
| 177.5° | 180.7 | 181.0 | 181.0 | 181.3 | 181.0 | 181.3 | 180.7 | 180.2 |
| 180° | 179.9 | 179.9 | 179.9 | 179.9 | 179.9 | 179.9 | 179.9 | 179.9 |

(END OF REPORT)