

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: P331624-940

Luminaire Tested: **S122RDIP-S290D530U940-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331624-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIP-S290D530U940-4F0-1E-UDD-F
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 530 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2806.9 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

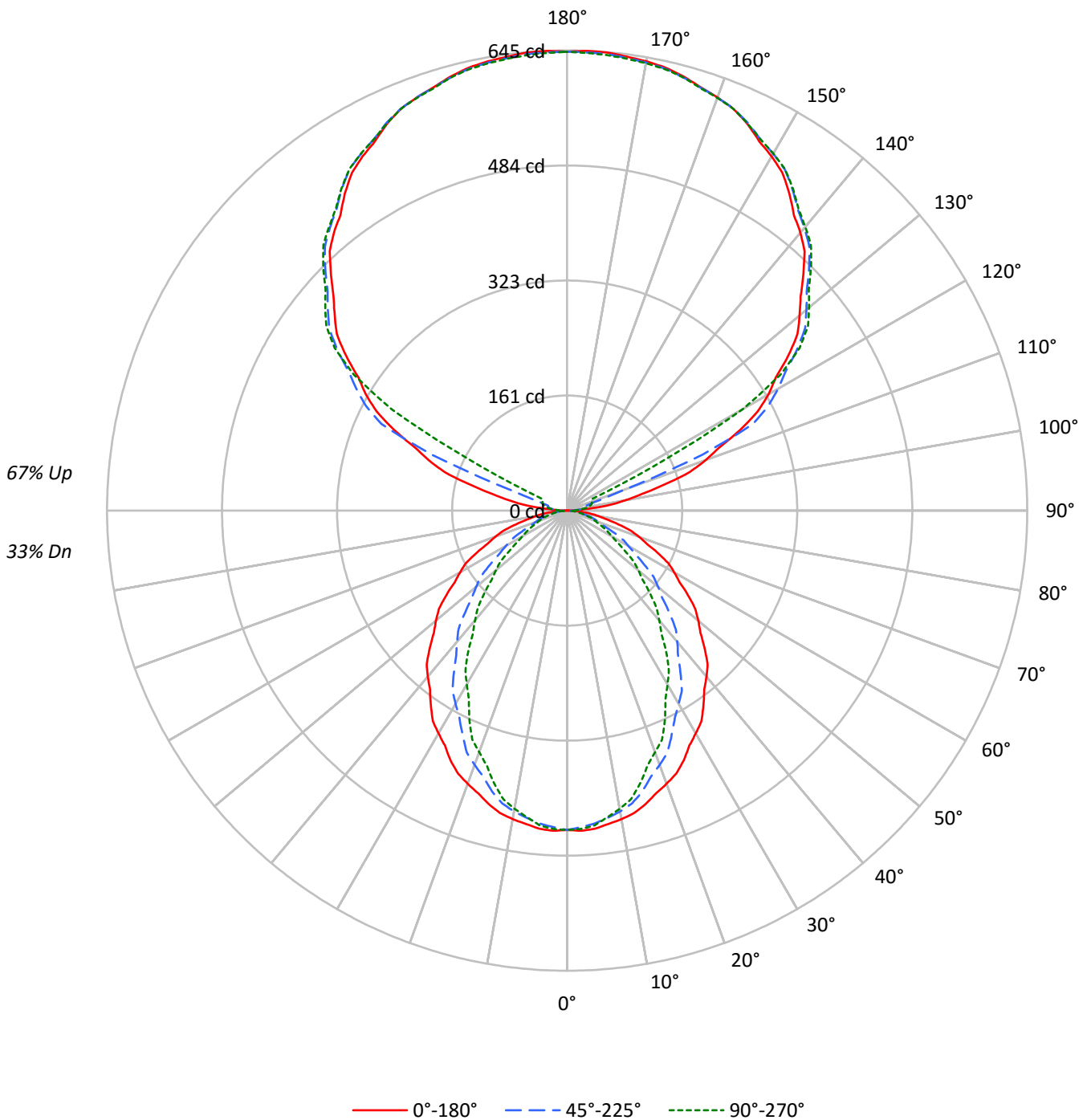
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331624-940

CATALOG NUMBER: S122RDIP-S290D530U940-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P331624-940

CATALOG NUMBER: S122RDIP-S290D530U940-4F0-1E-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 | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 74 | 74 | 74 | 56 | 56 | 56 | 40 | 40 | 40 | 33 |
| 1 | 94 | 90 | 86 | 83 | 85 | 81 | 78 | 76 | 65 | 63 | 61 | 50 | 49 | 47 | 36 | 35 | 35 | 28 |
| 2 | 86 | 79 | 73 | 68 | 77 | 71 | 67 | 62 | 57 | 54 | 51 | 44 | 42 | 40 | 32 | 31 | 30 | 24 |
| 3 | 79 | 70 | 63 | 57 | 71 | 63 | 57 | 52 | 51 | 47 | 43 | 39 | 37 | 34 | 29 | 27 | 26 | 21 |
| 4 | 72 | 62 | 54 | 49 | 65 | 56 | 50 | 45 | 45 | 41 | 37 | 35 | 32 | 30 | 26 | 24 | 22 | 18 |
| 5 | 66 | 55 | 47 | 42 | 59 | 50 | 43 | 38 | 41 | 36 | 32 | 32 | 28 | 26 | 23 | 21 | 20 | 16 |
| 6 | 61 | 49 | 42 | 36 | 55 | 45 | 38 | 33 | 37 | 32 | 28 | 29 | 25 | 23 | 21 | 19 | 17 | 14 |
| 7 | 56 | 45 | 37 | 32 | 51 | 41 | 34 | 29 | 33 | 28 | 25 | 26 | 23 | 20 | 20 | 17 | 16 | 13 |
| 8 | 52 | 40 | 33 | 28 | 47 | 37 | 30 | 26 | 30 | 25 | 22 | 24 | 20 | 18 | 18 | 16 | 14 | 11 |
| 9 | 49 | 37 | 30 | 25 | 44 | 34 | 27 | 23 | 28 | 23 | 20 | 22 | 19 | 16 | 17 | 14 | 13 | 10 |
| 10 | 45 | 34 | 27 | 22 | 41 | 31 | 25 | 21 | 26 | 21 | 18 | 20 | 17 | 15 | 16 | 13 | 12 | 10 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 7227 | 7227 | 7227 |
| 5° | 7254 | 7136 | 7175 |
| 10° | 7199 | 7020 | 6960 |
| 15° | 7116 | 6812 | 6614 |
| 20° | 7002 | 6515 | 6189 |
| 25° | 6885 | 6178 | 5772 |
| 30° | 6721 | 5830 | 5243 |
| 35° | 6564 | 5454 | 4776 |
| 40° | 6403 | 5063 | 4234 |
| 45° | 6215 | 4624 | 3747 |
| 50° | 6023 | 4182 | 3265 |
| 55° | 5827 | 3704 | 2806 |
| 60° | 5596 | 3203 | 2328 |
| 65° | 5337 | 2690 | 2120 |
| 70° | 5032 | 2219 | 1950 |
| 75° | 4648 | 2021 | 1822 |
| 80° | 4100 | 1804 | 1655 |
| 85° | 3223 | 1426 | 1426 |



TEST NUMBER: P331624-940

CATALOG NUMBER: S122RDIP-S290D530U940-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 41.9 | 1.5 |
| 10°-20° | 115.0 | 4.1 |
| 20°-30° | 161.6 | 5.8 |
| 30°-40° | 176.2 | 6.3 |
| 40°-50° | 162.0 | 5.8 |
| 50°-60° | 127.2 | 4.5 |
| 60°-70° | 82.9 | 3.0 |
| 70°-80° | 42.8 | 1.5 |
| 80°-90° | 12.7 | 0.5 |
| 90°-100° | 21.5 | 0.8 |
| 100°-110° | 78.7 | 2.8 |
| 110°-120° | 210.3 | 7.5 |
| 120°-130° | 347.1 | 12.4 |
| 130°-140° | 369.2 | 13.2 |
| 140°-150° | 343.1 | 12.2 |
| 150°-160° | 275.9 | 9.8 |
| 160°-170° | 177.8 | 6.3 |
| 170°-180° | 61.2 | 2.2 |
| 0°-30° | 318.5 | 11.3 |
| 0°-40° | 494.7 | 17.6 |
| 0°-60° | 783.8 | 27.9 |
| 0°-90° | 922.2 | 32.9 |
| 90°-120° | 310.4 | 11.1 |
| 90°-150° | 1369.9 | 48.8 |
| 90°-180° | 1885.0 | 67.2 |
| 0°-180° | 2806.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 448 | 448 | 448 | 448 | 448 | |
| 5° | 448 | 445 | 440 | 444 | 443 | 42 |
| 15° | 426 | 421 | 408 | 400 | 396 | 120 |
| 25° | 386 | 373 | 347 | 331 | 324 | 178 |
| 35° | 333 | 312 | 277 | 252 | 242 | 208 |
| 45° | 272 | 244 | 202 | 175 | 164 | 210 |
| 55° | 207 | 175 | 132 | 108 | 100 | 185 |
| 65° | 140 | 107 | 70 | 57 | 56 | 138 |
| 75° | 74 | 47 | 32 | 30 | 29 | 79 |
| 85° | 17 | 9 | 8 | 8 | 8 | 21 |
| 90° | 0 | 6 | 9 | 12 | 13 | 2 |
| 95° | 30 | 16 | 18 | 20 | 20 | 37 |
| 105° | 141 | 148 | 28 | 33 | 35 | 151 |
| 115° | 268 | 276 | 287 | 82 | 38 | 263 |
| 125° | 378 | 385 | 393 | 396 | 398 | 337 |
| 135° | 468 | 475 | 480 | 484 | 484 | 361 |
| 145° | 543 | 543 | 550 | 553 | 551 | 340 |
| 155° | 598 | 594 | 599 | 602 | 598 | 275 |
| 165° | 630 | 628 | 629 | 632 | 629 | 178 |
| 175° | 644 | 642 | 642 | 645 | 641 | 61 |
| 180° | 643 | 643 | 643 | 643 | 643 | |



TEST NUMBER: P331624-940

CATALOG NUMBER: S122RDIP-S290D530U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 447.6 | 447.6 | 447.6 | 447.6 | 447.6 | 447.6 | 447.6 | 447.6 | 447.6 | 447.6 | 447.6 |
| 2.5° | 449.2 | 448.9 | 448.5 | 448.2 | 447.8 | 447.2 | 446.4 | 445.7 | 444.9 | 444.1 | 444.8 |
| 5° | 447.6 | 447.2 | 446.7 | 446.3 | 445.9 | 445.0 | 443.8 | 442.6 | 441.5 | 440.3 | 441.1 |
| 7.5° | 443.0 | 442.5 | 441.8 | 441.3 | 440.8 | 439.8 | 438.5 | 437.0 | 435.7 | 434.4 | 434.5 |
| 10° | 439.1 | 438.5 | 437.8 | 437.2 | 436.6 | 435.3 | 433.5 | 431.8 | 430.0 | 428.2 | 427.9 |
| 12.5° | 434.3 | 433.5 | 432.7 | 431.9 | 431.1 | 429.6 | 427.3 | 425.0 | 422.7 | 420.4 | 419.9 |
| 15° | 425.7 | 424.7 | 423.7 | 422.8 | 421.8 | 419.7 | 416.7 | 413.7 | 410.5 | 407.5 | 405.8 |
| 17.5° | 415.3 | 413.8 | 412.2 | 410.7 | 409.2 | 406.5 | 402.6 | 398.7 | 394.8 | 390.8 | 388.8 |
| 20° | 407.5 | 405.7 | 403.9 | 402.1 | 400.3 | 397.2 | 392.6 | 388.2 | 383.7 | 379.2 | 376.9 |
| 22.5° | 399.1 | 397.1 | 395.0 | 393.1 | 391.0 | 387.4 | 382.4 | 377.3 | 372.3 | 367.2 | 364.3 |
| 25° | 386.5 | 383.5 | 380.7 | 377.8 | 375.0 | 370.5 | 364.5 | 358.6 | 352.7 | 346.8 | 343.0 |
| 27.5° | 371.2 | 368.1 | 365.0 | 361.9 | 358.6 | 353.7 | 347.1 | 340.4 | 333.7 | 327.0 | 322.7 |
| 30° | 360.5 | 357.1 | 353.7 | 350.3 | 346.9 | 341.5 | 334.3 | 327.2 | 319.9 | 312.7 | 308.2 |
| 32.5° | 350.2 | 346.2 | 342.1 | 338.1 | 334.1 | 328.5 | 321.2 | 313.8 | 306.5 | 299.1 | 293.9 |
| 35° | 333.0 | 328.4 | 323.8 | 319.2 | 314.6 | 308.4 | 300.4 | 292.5 | 284.6 | 276.7 | 271.0 |
| 37.5° | 315.8 | 310.8 | 305.7 | 300.7 | 295.6 | 288.9 | 280.4 | 272.0 | 263.6 | 255.1 | 248.9 |
| 40° | 303.8 | 298.5 | 293.0 | 287.6 | 282.2 | 275.2 | 266.4 | 257.7 | 249.0 | 240.2 | 233.8 |
| 42.5° | 291.5 | 285.8 | 280.1 | 274.5 | 268.8 | 261.4 | 252.4 | 243.3 | 234.3 | 225.3 | 218.7 |
| 45° | 272.2 | 266.2 | 260.1 | 254.1 | 248.1 | 240.3 | 230.9 | 221.4 | 212.0 | 202.5 | 196.2 |
| 47.5° | 253.4 | 247.0 | 240.7 | 234.3 | 227.8 | 219.8 | 210.0 | 200.3 | 190.5 | 180.7 | 174.4 |
| 50° | 239.8 | 233.4 | 227.0 | 220.6 | 214.3 | 206.1 | 196.2 | 186.3 | 176.4 | 166.5 | 160.2 |
| 52.5° | 226.5 | 219.8 | 213.2 | 206.5 | 199.8 | 191.6 | 181.9 | 172.3 | 162.6 | 152.8 | 146.9 |
| 55° | 207.0 | 200.0 | 193.0 | 185.9 | 178.9 | 170.6 | 160.8 | 151.1 | 141.3 | 131.6 | 126.3 |
| 57.5° | 187.0 | 179.8 | 172.5 | 165.4 | 158.2 | 149.9 | 140.5 | 131.3 | 121.9 | 112.5 | 107.5 |
| 60° | 173.3 | 166.2 | 159.0 | 151.8 | 144.5 | 136.3 | 127.1 | 117.8 | 108.5 | 99.2 | 94.6 |
| 62.5° | 160.1 | 152.9 | 145.7 | 138.5 | 131.3 | 123.2 | 114.4 | 105.6 | 96.8 | 87.9 | 83.6 |
| 65° | 139.7 | 132.4 | 125.2 | 117.9 | 110.6 | 102.9 | 94.8 | 86.7 | 78.6 | 70.4 | 67.4 |
| 67.5° | 120.1 | 112.9 | 105.7 | 98.4 | 91.2 | 83.9 | 76.6 | 69.4 | 62.1 | 54.8 | 53.3 |
| 70° | 106.6 | 99.5 | 92.5 | 85.5 | 78.5 | 71.9 | 65.6 | 59.4 | 53.2 | 47.0 | 46.1 |
| 72.5° | 93.5 | 86.9 | 80.1 | 73.4 | 66.6 | 60.8 | 55.8 | 50.8 | 45.8 | 40.8 | 40.0 |
| 75° | 74.5 | 68.2 | 62.0 | 55.6 | 49.3 | 44.7 | 41.6 | 38.5 | 35.5 | 32.4 | 31.7 |
| 77.5° | 55.8 | 50.3 | 44.8 | 39.2 | 33.7 | 30.2 | 28.7 | 27.3 | 25.8 | 24.3 | 24.0 |
| 80° | 44.1 | 39.6 | 35.0 | 30.4 | 25.8 | 23.0 | 22.1 | 21.2 | 20.3 | 19.4 | 19.1 |
| 82.5° | 33.4 | 29.9 | 26.3 | 22.7 | 19.2 | 17.0 | 16.4 | 15.8 | 15.2 | 14.6 | 14.4 |
| 85° | 17.4 | 15.5 | 13.6 | 11.8 | 9.9 | 8.7 | 8.5 | 8.2 | 7.9 | 7.7 | 7.7 |
| 87.5° | 5.3 | 4.9 | 4.5 | 4.2 | 3.9 | 3.8 | 3.9 | 4.1 | 4.3 | 4.5 | 4.5 |
| 90° | 0.4 | 1.6 | 2.8 | 3.8 | 5.0 | 6.0 | 6.9 | 7.7 | 8.5 | 9.3 | 9.8 |
| 92.5° | 9.4 | 9.3 | 9.2 | 9.1 | 9.0 | 9.2 | 9.5 | 10.0 | 10.3 | 10.8 | 11.1 |
| 95° | 30.2 | 26.8 | 23.5 | 20.0 | 16.6 | 15.2 | 16.0 | 16.7 | 17.4 | 18.2 | 18.6 |
| 97.5° | 60.0 | 50.4 | 40.8 | 31.2 | 21.6 | 17.6 | 19.3 | 21.0 | 22.6 | 24.3 | 24.7 |
| 100° | 82.4 | 68.2 | 54.0 | 39.9 | 25.7 | 19.5 | 21.2 | 23.0 | 24.8 | 26.5 | 27.4 |
| 102.5° | 106.9 | 104.0 | 100.9 | 97.9 | 95.0 | 86.1 | 71.4 | 56.7 | 42.0 | 27.3 | 28.4 |
| 105° | 141.4 | 144.5 | 147.7 | 150.8 | 153.9 | 141.3 | 113.1 | 84.9 | 56.6 | 28.4 | 29.5 |
| 107.5° | 180.8 | 183.3 | 185.8 | 188.3 | 190.8 | 175.1 | 141.3 | 107.5 | 73.6 | 39.8 | 38.6 |
| 110° | 206.2 | 208.3 | 210.5 | 212.7 | 214.8 | 201.0 | 171.1 | 141.2 | 111.3 | 81.4 | 71.1 |



TEST NUMBER: P331624-940

CATALOG NUMBER: S122RDIP-S290D530U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 230.0 | 231.9 | 233.8 | 235.8 | 237.6 | 235.0 | 227.6 | 220.2 | 212.8 | 205.5 | 167.6 |
| 115° | 267.6 | 269.3 | 271.1 | 272.9 | 274.6 | 276.8 | 279.4 | 282.0 | 284.5 | 287.1 | 239.2 |
| 117.5° | 301.2 | 303.2 | 305.1 | 307.1 | 309.1 | 310.9 | 312.7 | 314.5 | 316.3 | 318.0 | 306.5 |
| 120° | 325.7 | 327.3 | 328.9 | 330.4 | 332.0 | 333.7 | 335.6 | 337.4 | 339.2 | 341.1 | 342.3 |
| 122.5° | 346.6 | 348.2 | 349.9 | 351.5 | 353.1 | 355.0 | 357.0 | 359.0 | 361.1 | 363.1 | 363.8 |
| 125° | 378.4 | 379.7 | 381.0 | 382.4 | 383.7 | 385.4 | 387.4 | 389.3 | 391.3 | 393.2 | 394.0 |
| 127.5° | 407.1 | 408.6 | 410.1 | 411.5 | 413.0 | 414.6 | 416.0 | 417.5 | 418.9 | 420.4 | 421.4 |
| 130° | 425.3 | 427.0 | 428.6 | 430.3 | 431.9 | 433.4 | 434.5 | 435.6 | 436.8 | 437.9 | 439.1 |
| 132.5° | 444.0 | 445.3 | 446.7 | 448.2 | 449.6 | 450.8 | 452.0 | 453.2 | 454.2 | 455.4 | 456.4 |
| 135° | 468.1 | 469.8 | 471.4 | 473.1 | 474.7 | 476.1 | 477.0 | 478.0 | 478.8 | 479.7 | 480.8 |
| 137.5° | 492.7 | 493.7 | 494.9 | 496.1 | 497.2 | 498.4 | 499.4 | 500.5 | 501.5 | 502.6 | 503.6 |
| 140° | 508.6 | 509.4 | 510.3 | 511.1 | 511.9 | 512.9 | 514.1 | 515.2 | 516.3 | 517.5 | 518.4 |
| 142.5° | 522.0 | 522.8 | 523.5 | 524.2 | 525.0 | 526.0 | 527.4 | 528.6 | 529.9 | 531.3 | 532.1 |
| 145° | 543.1 | 543.0 | 542.9 | 542.8 | 542.7 | 543.5 | 545.3 | 547.0 | 548.8 | 550.5 | 551.3 |
| 147.5° | 561.4 | 561.0 | 560.6 | 560.3 | 559.8 | 560.5 | 562.2 | 564.0 | 565.7 | 567.5 | 568.0 |
| 150° | 573.3 | 572.6 | 571.9 | 571.1 | 570.4 | 570.9 | 572.6 | 574.2 | 575.9 | 577.5 | 578.1 |
| 152.5° | 583.4 | 582.6 | 581.8 | 580.9 | 580.1 | 580.5 | 582.1 | 583.7 | 585.2 | 586.8 | 587.5 |
| 155° | 598.0 | 597.1 | 596.1 | 595.2 | 594.2 | 594.4 | 595.7 | 596.9 | 598.2 | 599.4 | 600.0 |
| 157.5° | 609.4 | 608.7 | 607.9 | 607.1 | 606.3 | 606.4 | 607.2 | 608.1 | 608.9 | 609.8 | 610.5 |
| 160° | 616.2 | 615.5 | 614.9 | 614.3 | 613.7 | 613.7 | 614.3 | 614.9 | 615.5 | 616.2 | 616.8 |
| 162.5° | 622.1 | 621.4 | 620.8 | 620.2 | 619.6 | 619.6 | 620.1 | 620.6 | 621.2 | 621.7 | 622.4 |
| 165° | 630.1 | 629.5 | 628.8 | 628.2 | 627.6 | 627.5 | 627.8 | 628.0 | 628.4 | 628.7 | 629.5 |
| 167.5° | 636.1 | 635.4 | 634.8 | 634.2 | 633.6 | 633.4 | 633.6 | 634.0 | 634.3 | 634.5 | 635.3 |
| 170° | 639.4 | 638.8 | 638.2 | 637.6 | 636.9 | 636.7 | 636.9 | 637.1 | 637.3 | 637.6 | 638.3 |
| 172.5° | 641.7 | 641.1 | 640.4 | 639.8 | 639.2 | 638.9 | 639.2 | 639.4 | 639.5 | 639.8 | 640.5 |
| 175° | 644.5 | 643.8 | 643.1 | 642.4 | 641.6 | 641.4 | 641.6 | 641.8 | 641.9 | 642.2 | 642.9 |
| 177.5° | 645.0 | 644.4 | 643.8 | 643.3 | 642.7 | 642.4 | 642.5 | 642.6 | 642.7 | 642.7 | 643.4 |
| 180° | 643.1 | 643.1 | 643.1 | 643.1 | 643.1 | 643.1 | 643.1 | 643.1 | 643.1 | 643.1 | 643.1 |



TEST NUMBER: P331624-940

CATALOG NUMBER: S122RDIP-S290D530U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 447.6 | 447.6 | 447.6 | 447.6 | 447.6 | 447.6 | 447.6 | 447.6 |
| 2.5° | 445.5 | 446.2 | 446.9 | 447.2 | 447.1 | 446.9 | 446.7 | 446.7 |
| 5° | 441.9 | 442.7 | 443.5 | 443.8 | 443.5 | 443.3 | 443.0 | 442.7 |
| 7.5° | 434.8 | 435.1 | 435.2 | 435.2 | 434.7 | 434.2 | 433.7 | 433.3 |
| 10° | 427.7 | 427.4 | 427.1 | 426.7 | 426.1 | 425.6 | 425.1 | 424.5 |
| 12.5° | 419.5 | 418.9 | 418.5 | 417.8 | 416.9 | 416.0 | 415.1 | 414.2 |
| 15° | 404.1 | 402.3 | 400.6 | 399.4 | 398.5 | 397.5 | 396.6 | 395.7 |
| 17.5° | 386.7 | 384.7 | 382.7 | 380.9 | 379.3 | 377.8 | 376.2 | 374.7 |
| 20° | 374.7 | 372.4 | 370.1 | 368.0 | 366.0 | 364.1 | 362.1 | 360.2 |
| 22.5° | 361.4 | 358.5 | 355.6 | 353.4 | 351.9 | 350.4 | 348.9 | 347.5 |
| 25° | 339.4 | 335.6 | 332.0 | 329.5 | 328.1 | 326.7 | 325.4 | 324.0 |
| 27.5° | 318.3 | 314.1 | 309.8 | 306.6 | 304.4 | 302.3 | 300.1 | 298.0 |
| 30° | 303.5 | 299.0 | 294.4 | 290.9 | 288.4 | 286.0 | 283.6 | 281.2 |
| 32.5° | 288.6 | 283.4 | 278.1 | 274.4 | 272.2 | 269.8 | 267.5 | 265.3 |
| 35° | 265.4 | 259.7 | 254.0 | 250.1 | 248.2 | 246.2 | 244.2 | 242.3 |
| 37.5° | 242.6 | 236.4 | 230.2 | 225.9 | 223.6 | 221.3 | 219.1 | 216.8 |
| 40° | 227.5 | 221.1 | 214.6 | 210.3 | 207.9 | 205.6 | 203.2 | 200.9 |
| 42.5° | 212.0 | 205.5 | 198.9 | 194.5 | 192.2 | 189.9 | 187.6 | 185.4 |
| 45° | 189.8 | 183.3 | 177.0 | 172.7 | 170.6 | 168.4 | 166.2 | 164.1 |
| 47.5° | 168.0 | 161.7 | 155.3 | 151.1 | 149.2 | 147.2 | 145.3 | 143.3 |
| 50° | 154.1 | 147.8 | 141.6 | 137.6 | 135.7 | 133.8 | 131.9 | 130.0 |
| 52.5° | 140.9 | 134.9 | 128.9 | 125.0 | 123.3 | 121.5 | 119.8 | 118.1 |
| 55° | 120.8 | 115.5 | 110.0 | 106.5 | 104.8 | 103.1 | 101.4 | 99.7 |
| 57.5° | 102.6 | 97.6 | 92.7 | 89.5 | 88.1 | 86.7 | 85.2 | 83.7 |
| 60° | 90.1 | 85.5 | 80.9 | 77.8 | 76.4 | 75.0 | 73.6 | 72.1 |
| 62.5° | 79.2 | 74.8 | 70.4 | 67.8 | 66.9 | 66.1 | 65.2 | 64.3 |
| 65° | 64.4 | 61.3 | 58.2 | 56.5 | 56.3 | 56.0 | 55.7 | 55.5 |
| 67.5° | 52.0 | 50.6 | 49.1 | 48.3 | 48.0 | 47.7 | 47.4 | 47.2 |
| 70° | 45.2 | 44.3 | 43.4 | 42.8 | 42.4 | 42.0 | 41.6 | 41.3 |
| 72.5° | 39.3 | 38.5 | 37.8 | 37.4 | 37.1 | 36.9 | 36.6 | 36.5 |
| 75° | 31.1 | 30.5 | 29.9 | 29.5 | 29.4 | 29.3 | 29.2 | 29.2 |
| 77.5° | 23.5 | 23.2 | 22.8 | 22.6 | 22.5 | 22.3 | 22.2 | 22.0 |
| 80° | 18.7 | 18.4 | 18.0 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 |
| 82.5° | 14.2 | 13.9 | 13.7 | 13.6 | 13.6 | 13.6 | 13.6 | 13.6 |
| 85° | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 |
| 87.5° | 4.5 | 4.5 | 4.5 | 4.6 | 4.6 | 4.7 | 4.7 | 4.8 |
| 90° | 10.3 | 10.9 | 11.4 | 11.8 | 11.9 | 12.1 | 12.4 | 12.6 |
| 92.5° | 11.3 | 11.6 | 11.9 | 12.0 | 12.2 | 12.3 | 12.5 | 12.6 |
| 95° | 19.2 | 19.7 | 20.2 | 20.4 | 20.3 | 20.2 | 20.2 | 20.0 |
| 97.5° | 25.1 | 25.5 | 25.9 | 26.2 | 26.3 | 26.5 | 26.6 | 26.8 |
| 100° | 28.2 | 29.0 | 29.9 | 30.3 | 30.6 | 30.8 | 30.9 | 31.2 |
| 102.5° | 29.4 | 30.5 | 31.6 | 32.3 | 32.5 | 32.8 | 33.1 | 33.4 |
| 105° | 30.7 | 31.8 | 32.9 | 33.7 | 34.2 | 34.5 | 35.0 | 35.4 |
| 107.5° | 37.5 | 36.3 | 35.1 | 34.8 | 35.1 | 35.6 | 35.9 | 36.4 |
| 110° | 60.7 | 50.4 | 40.0 | 35.1 | 35.5 | 35.9 | 36.4 | 36.7 |



TEST NUMBER: P331624-940

CATALOG NUMBER: S122RDIP-S290D530U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 129.9 | 92.2 | 54.5 | 35.8 | 36.1 | 36.5 | 36.8 | 37.1 |
| 115° | 191.4 | 143.5 | 95.6 | 67.9 | 60.5 | 53.1 | 45.6 | 38.2 |
| 117.5° | 294.9 | 283.3 | 271.7 | 253.7 | 229.2 | 204.7 | 180.3 | 155.8 |
| 120° | 343.6 | 344.8 | 346.1 | 339.7 | 325.7 | 311.8 | 297.8 | 283.8 |
| 122.5° | 364.5 | 365.3 | 366.0 | 365.1 | 362.4 | 359.6 | 357.0 | 354.2 |
| 125° | 394.7 | 395.4 | 396.1 | 396.6 | 397.0 | 397.3 | 397.6 | 397.9 |
| 127.5° | 422.5 | 423.6 | 424.6 | 425.2 | 425.3 | 425.3 | 425.3 | 425.4 |
| 130° | 440.1 | 441.3 | 442.5 | 443.0 | 442.8 | 442.7 | 442.6 | 442.6 |
| 132.5° | 457.4 | 458.3 | 459.3 | 459.7 | 459.6 | 459.5 | 459.4 | 459.3 |
| 135° | 481.9 | 482.9 | 483.9 | 484.4 | 484.1 | 483.9 | 483.8 | 483.5 |
| 137.5° | 504.6 | 505.6 | 506.7 | 506.9 | 506.6 | 506.2 | 506.0 | 505.6 |
| 140° | 519.3 | 520.2 | 521.2 | 521.4 | 520.8 | 520.4 | 519.9 | 519.3 |
| 142.5° | 533.0 | 533.8 | 534.7 | 534.8 | 534.3 | 533.8 | 533.2 | 532.7 |
| 145° | 552.0 | 552.7 | 553.4 | 553.5 | 553.0 | 552.5 | 552.0 | 551.4 |
| 147.5° | 568.6 | 569.1 | 569.6 | 569.6 | 569.3 | 568.8 | 568.4 | 567.9 |
| 150° | 578.7 | 579.3 | 580.0 | 580.1 | 579.5 | 579.0 | 578.5 | 578.0 |
| 152.5° | 588.1 | 588.7 | 589.3 | 589.2 | 588.6 | 587.9 | 587.2 | 586.6 |
| 155° | 600.7 | 601.3 | 601.9 | 601.7 | 600.9 | 600.1 | 599.3 | 598.4 |
| 157.5° | 611.2 | 611.9 | 612.6 | 612.6 | 611.7 | 610.9 | 610.1 | 609.3 |
| 160° | 617.3 | 618.0 | 618.6 | 618.6 | 617.9 | 617.2 | 616.4 | 615.6 |
| 162.5° | 623.1 | 623.8 | 624.6 | 624.5 | 623.6 | 622.7 | 621.8 | 620.9 |
| 165° | 630.2 | 630.9 | 631.6 | 631.6 | 630.9 | 630.2 | 629.5 | 628.7 |
| 167.5° | 636.0 | 636.8 | 637.5 | 637.4 | 636.4 | 635.5 | 634.5 | 633.6 |
| 170° | 639.0 | 639.7 | 640.4 | 640.3 | 639.4 | 638.5 | 637.6 | 636.6 |
| 172.5° | 641.2 | 641.9 | 642.7 | 642.6 | 641.7 | 640.7 | 639.8 | 638.8 |
| 175° | 643.6 | 644.4 | 645.1 | 645.0 | 643.9 | 642.8 | 641.9 | 640.8 |
| 177.5° | 643.9 | 644.5 | 645.1 | 645.0 | 644.3 | 643.5 | 642.7 | 642.0 |
| 180° | 643.1 | 643.1 | 643.1 | 643.1 | 643.1 | 643.1 | 643.1 | 643.1 |

(END OF REPORT)