

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: P331650-940

Luminaire Tested: **S122RDIP-S485D330U940-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331650-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIP-S485D330U940-4F0-1E-UDD-F4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2655.1 lumens
Efficiency: N/A
Efficacy: 96.5 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: General Diffuse

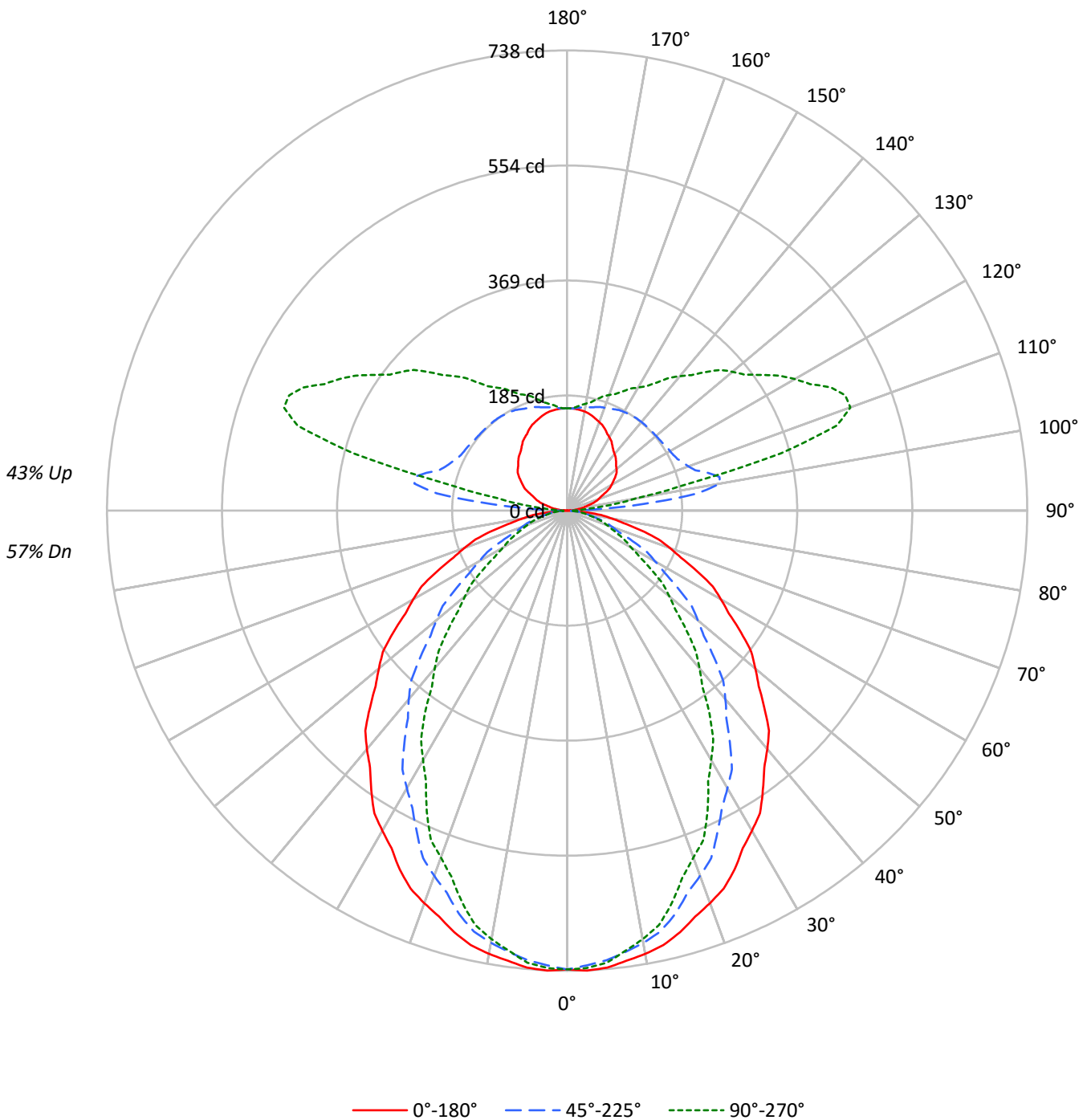
Input Watts (W): 27.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331650-940

CATALOG NUMBER: S122RDIP-S485D330U940-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P331650-940

CATALOG NUMBER: S122RDIP-S485D330U940-4F0-1E-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 | 109 | 109 | 109 | 109 | 101 | 101 | 101 | 101 | 87 | 87 | 87 | 74 | 74 | 74 | 63 | 63 | 63 | 57 |
| 1 | 100 | 96 | 92 | 89 | 93 | 89 | 86 | 83 | 77 | 75 | 73 | 66 | 65 | 63 | 56 | 55 | 54 | 49 |
| 2 | 91 | 84 | 78 | 73 | 85 | 79 | 74 | 69 | 68 | 65 | 61 | 59 | 56 | 54 | 50 | 48 | 46 | 42 |
| 3 | 84 | 75 | 67 | 62 | 78 | 70 | 64 | 58 | 61 | 56 | 52 | 53 | 49 | 46 | 45 | 42 | 40 | 36 |
| 4 | 77 | 66 | 59 | 53 | 71 | 62 | 55 | 50 | 54 | 49 | 45 | 47 | 43 | 40 | 40 | 37 | 35 | 32 |
| 5 | 71 | 59 | 52 | 46 | 66 | 56 | 49 | 43 | 49 | 43 | 39 | 43 | 38 | 35 | 37 | 33 | 31 | 28 |
| 6 | 65 | 54 | 46 | 40 | 61 | 50 | 43 | 38 | 44 | 39 | 34 | 39 | 34 | 31 | 34 | 30 | 27 | 25 |
| 7 | 61 | 49 | 41 | 35 | 57 | 46 | 39 | 34 | 40 | 35 | 31 | 35 | 31 | 28 | 31 | 27 | 25 | 22 |
| 8 | 56 | 44 | 37 | 31 | 53 | 42 | 35 | 30 | 37 | 31 | 27 | 33 | 28 | 25 | 28 | 25 | 22 | 20 |
| 9 | 53 | 41 | 33 | 28 | 49 | 38 | 32 | 27 | 34 | 29 | 25 | 30 | 26 | 22 | 26 | 23 | 20 | 18 |
| 10 | 49 | 37 | 30 | 26 | 46 | 35 | 29 | 24 | 32 | 26 | 22 | 28 | 24 | 20 | 25 | 21 | 18 | 17 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 11880 | 11880 | 11880 |
| 5° | 11925 | 11733 | 11797 |
| 10° | 11835 | 11540 | 11442 |
| 15° | 11699 | 11198 | 10877 |
| 20° | 11510 | 10710 | 10172 |
| 25° | 11318 | 10156 | 9492 |
| 30° | 11050 | 9587 | 8617 |
| 35° | 10789 | 8966 | 7849 |
| 40° | 10526 | 8323 | 6962 |
| 45° | 10218 | 7604 | 6158 |
| 50° | 9902 | 6875 | 5368 |
| 55° | 9579 | 6092 | 4611 |
| 60° | 9203 | 5270 | 3827 |
| 65° | 8779 | 4424 | 3484 |
| 70° | 8266 | 3644 | 3205 |
| 75° | 7642 | 3319 | 2994 |
| 80° | 6750 | 2966 | 2724 |
| 85° | 5298 | 2353 | 2353 |



TEST NUMBER: P331650-940

CATALOG NUMBER: S122RDIP-S485D330U940-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 68.9 | 2.6 |
| 10°-20° | 189.1 | 7.1 |
| 20°-30° | 265.6 | 10.0 |
| 30°-40° | 289.6 | 10.9 |
| 40°-50° | 266.3 | 10.0 |
| 50°-60° | 209.1 | 7.9 |
| 60°-70° | 136.4 | 5.1 |
| 70°-80° | 70.3 | 2.6 |
| 80°-90° | 19.7 | 0.7 |
| 90°-100° | 65.5 | 2.5 |
| 100°-110° | 222.3 | 8.4 |
| 110°-120° | 236.2 | 8.9 |
| 120°-130° | 194.4 | 7.3 |
| 130°-140° | 156.1 | 5.9 |
| 140°-150° | 118.0 | 4.4 |
| 150°-160° | 82.9 | 3.1 |
| 160°-170° | 48.8 | 1.8 |
| 170°-180° | 15.9 | 0.6 |
| 0°-30° | 523.6 | 19.7 |
| 0°-40° | 813.2 | 30.6 |
| 0°-60° | 1288.6 | 48.5 |
| 0°-90° | 1515.0 | 57.1 |
| 90°-120° | 524.0 | 19.7 |
| 90°-150° | 992.5 | 37.4 |
| 90°-180° | 1140.0 | 42.9 |
| 0°-180° | 2655.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 736 | 736 | 736 | 736 | 736 | |
| 5° | 736 | 732 | 724 | 729 | 728 | 70 |
| 15° | 700 | 692 | 670 | 658 | 651 | 197 |
| 25° | 635 | 613 | 570 | 544 | 533 | 292 |
| 35° | 547 | 512 | 455 | 414 | 398 | 342 |
| 45° | 448 | 402 | 333 | 287 | 270 | 345 |
| 55° | 340 | 287 | 216 | 178 | 164 | 304 |
| 65° | 230 | 176 | 116 | 94 | 91 | 228 |
| 75° | 122 | 77 | 53 | 49 | 48 | 130 |
| 85° | 29 | 15 | 13 | 13 | 13 | 34 |
| 90° | 0 | 4 | 11 | 10 | 10 | 2 |
| 95° | 11 | 27 | 124 | 47 | 36 | 12 |
| 105° | 38 | 58 | 233 | 417 | 355 | 41 |
| 115° | 68 | 86 | 195 | 403 | 467 | 67 |
| 125° | 94 | 112 | 188 | 327 | 379 | 84 |
| 135° | 111 | 132 | 186 | 274 | 314 | 86 |
| 145° | 127 | 146 | 185 | 229 | 251 | 79 |
| 155° | 144 | 155 | 179 | 203 | 211 | 66 |
| 165° | 157 | 162 | 172 | 182 | 185 | 44 |
| 175° | 164 | 164 | 165 | 167 | 167 | 16 |
| 180° | 164 | 164 | 164 | 164 | 164 | |



TEST NUMBER: P331650-940

CATALOG NUMBER: S122RDIP-S485D330U940-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 735.8 | 735.8 | 735.8 | 735.8 | 735.8 | 735.8 | 735.8 | 735.8 | 735.8 | 735.8 | 735.8 |
| 2.5° | 738.5 | 738.0 | 737.4 | 736.7 | 736.2 | 735.2 | 734.0 | 732.6 | 731.3 | 730.0 | 731.2 |
| 5° | 735.8 | 735.1 | 734.4 | 733.7 | 732.9 | 731.6 | 729.7 | 727.7 | 725.9 | 723.9 | 725.2 |
| 7.5° | 728.3 | 727.4 | 726.5 | 725.5 | 724.6 | 723.0 | 720.8 | 718.5 | 716.3 | 714.1 | 714.4 |
| 10° | 721.9 | 720.9 | 719.8 | 718.8 | 717.7 | 715.8 | 712.8 | 709.8 | 706.9 | 703.9 | 703.5 |
| 12.5° | 713.9 | 712.7 | 711.3 | 710.1 | 708.8 | 706.3 | 702.5 | 698.7 | 694.9 | 691.2 | 690.4 |
| 15° | 699.9 | 698.3 | 696.7 | 695.0 | 693.4 | 690.1 | 685.0 | 680.0 | 675.0 | 669.9 | 667.2 |
| 17.5° | 682.8 | 680.3 | 677.8 | 675.3 | 672.8 | 668.3 | 661.9 | 655.4 | 649.0 | 642.5 | 639.2 |
| 20° | 669.9 | 667.0 | 664.1 | 661.1 | 658.1 | 652.9 | 645.5 | 638.1 | 630.7 | 623.3 | 619.6 |
| 22.5° | 656.1 | 652.8 | 649.4 | 646.1 | 642.8 | 637.0 | 628.7 | 620.3 | 612.0 | 603.6 | 598.9 |
| 25° | 635.3 | 630.6 | 625.9 | 621.1 | 616.4 | 609.1 | 599.3 | 589.6 | 579.8 | 570.1 | 564.0 |
| 27.5° | 610.3 | 605.1 | 599.9 | 594.9 | 589.7 | 581.6 | 570.6 | 559.5 | 548.6 | 537.5 | 530.5 |
| 30° | 592.7 | 587.1 | 581.5 | 575.9 | 570.2 | 561.5 | 549.7 | 537.8 | 525.9 | 514.2 | 506.6 |
| 32.5° | 575.7 | 569.1 | 562.5 | 556.0 | 549.4 | 540.0 | 528.0 | 515.9 | 503.8 | 491.8 | 483.1 |
| 35° | 547.4 | 539.8 | 532.4 | 524.8 | 517.2 | 506.9 | 493.9 | 480.9 | 467.9 | 454.9 | 445.5 |
| 37.5° | 519.2 | 510.9 | 502.6 | 494.3 | 486.1 | 474.9 | 461.1 | 447.2 | 433.3 | 419.5 | 409.1 |
| 40° | 499.4 | 490.6 | 481.7 | 472.9 | 464.0 | 452.4 | 438.0 | 423.7 | 409.3 | 394.9 | 384.4 |
| 42.5° | 479.2 | 469.8 | 460.5 | 451.2 | 441.8 | 429.7 | 414.9 | 400.0 | 385.2 | 370.4 | 359.5 |
| 45° | 447.5 | 437.7 | 427.7 | 417.8 | 407.9 | 395.1 | 379.6 | 364.1 | 348.5 | 333.0 | 322.4 |
| 47.5° | 416.6 | 406.1 | 395.7 | 385.1 | 374.6 | 361.3 | 345.3 | 329.2 | 313.2 | 297.1 | 286.7 |
| 50° | 394.2 | 383.7 | 373.3 | 362.7 | 352.2 | 338.9 | 322.5 | 306.3 | 290.0 | 273.7 | 263.5 |
| 52.5° | 372.4 | 361.4 | 350.4 | 339.5 | 328.5 | 315.0 | 299.1 | 283.2 | 267.2 | 251.4 | 241.5 |
| 55° | 340.3 | 328.8 | 317.2 | 305.7 | 294.2 | 280.4 | 264.4 | 248.4 | 232.4 | 216.4 | 207.6 |
| 57.5° | 307.4 | 295.6 | 283.7 | 271.9 | 260.0 | 246.5 | 231.1 | 215.7 | 200.4 | 185.0 | 176.8 |
| 60° | 285.0 | 273.2 | 261.4 | 249.5 | 237.6 | 224.2 | 208.9 | 193.7 | 178.4 | 163.2 | 155.6 |
| 62.5° | 263.1 | 251.4 | 239.5 | 227.7 | 215.8 | 202.7 | 188.2 | 173.6 | 159.1 | 144.5 | 137.3 |
| 65° | 229.8 | 217.8 | 205.8 | 193.8 | 181.8 | 169.2 | 155.9 | 142.5 | 129.2 | 115.8 | 110.8 |
| 67.5° | 197.5 | 185.7 | 173.7 | 161.8 | 149.9 | 137.9 | 126.0 | 114.0 | 102.0 | 90.1 | 87.7 |
| 70° | 175.1 | 163.6 | 152.0 | 140.5 | 128.9 | 118.1 | 107.9 | 97.6 | 87.5 | 77.2 | 75.8 |
| 72.5° | 153.8 | 142.8 | 131.7 | 120.6 | 109.6 | 100.0 | 91.8 | 83.6 | 75.3 | 67.1 | 65.9 |
| 75° | 122.5 | 112.2 | 101.8 | 91.5 | 81.1 | 73.4 | 68.4 | 63.3 | 58.3 | 53.2 | 52.3 |
| 77.5° | 91.8 | 82.7 | 73.6 | 64.5 | 55.5 | 49.7 | 47.3 | 44.9 | 42.4 | 39.9 | 39.3 |
| 80° | 72.6 | 65.0 | 57.5 | 49.9 | 42.4 | 37.9 | 36.4 | 35.0 | 33.4 | 31.9 | 31.4 |
| 82.5° | 55.0 | 49.1 | 43.2 | 37.4 | 31.5 | 28.0 | 27.0 | 25.9 | 25.0 | 24.0 | 23.6 |
| 85° | 28.6 | 25.5 | 22.4 | 19.4 | 16.2 | 14.4 | 14.0 | 13.6 | 13.1 | 12.7 | 12.7 |
| 87.5° | 8.6 | 7.8 | 7.1 | 6.3 | 5.5 | 5.2 | 5.5 | 6.0 | 6.3 | 6.4 | 6.2 |
| 90° | 0.4 | 1.2 | 2.5 | 3.1 | 3.7 | 4.7 | 6.3 | 8.5 | 10.4 | 10.7 | 10.4 |
| 92.5° | 3.8 | 5.5 | 7.8 | 9.2 | 11.3 | 14.3 | 21.4 | 31.5 | 40.4 | 40.9 | 34.6 |
| 95° | 11.1 | 12.3 | 15.4 | 18.3 | 23.3 | 30.9 | 45.4 | 72.8 | 109.3 | 123.5 | 108.1 |
| 97.5° | 17.9 | 19.6 | 23.0 | 27.3 | 33.1 | 41.6 | 59.8 | 98.1 | 158.8 | 210.8 | 221.1 |
| 100° | 24.3 | 25.2 | 28.0 | 33.1 | 39.4 | 48.2 | 64.9 | 103.3 | 171.4 | 248.9 | 294.3 |
| 102.5° | 30.1 | 30.8 | 33.6 | 38.6 | 45.2 | 54.0 | 69.5 | 103.6 | 166.6 | 250.1 | 321.5 |
| 105° | 38.4 | 39.7 | 41.9 | 46.6 | 53.6 | 62.4 | 77.2 | 105.2 | 157.2 | 233.4 | 317.3 |
| 107.5° | 47.5 | 48.5 | 50.6 | 55.0 | 61.9 | 70.8 | 85.2 | 109.6 | 152.6 | 215.5 | 289.6 |
| 110° | 53.6 | 54.8 | 56.7 | 60.8 | 67.4 | 76.6 | 90.4 | 113.1 | 151.6 | 207.0 | 272.2 |



TEST NUMBER: P331650-940

CATALOG NUMBER: S122RDIP-S485D330U940-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 59.1 | 60.4 | 62.5 | 66.3 | 72.7 | 82.1 | 95.5 | 116.9 | 151.8 | 201.4 | 260.1 |
| 115° | 67.8 | 69.3 | 71.2 | 75.0 | 81.3 | 89.8 | 103.3 | 122.5 | 153.1 | 195.4 | 245.1 |
| 117.5° | 76.7 | 77.9 | 79.8 | 83.2 | 89.3 | 98.1 | 110.6 | 128.6 | 155.4 | 192.3 | 235.7 |
| 120° | 82.2 | 83.5 | 85.4 | 88.2 | 94.5 | 103.3 | 115.7 | 132.7 | 156.9 | 190.6 | 230.6 |
| 122.5° | 87.6 | 88.5 | 90.4 | 93.5 | 99.8 | 108.9 | 120.4 | 136.2 | 158.6 | 189.6 | 226.3 |
| 125° | 94.5 | 95.5 | 97.4 | 101.1 | 107.5 | 116.3 | 127.6 | 141.8 | 161.3 | 187.8 | 220.3 |
| 127.5° | 100.0 | 101.3 | 104.0 | 108.2 | 114.1 | 123.2 | 134.3 | 147.0 | 164.0 | 186.7 | 214.5 |
| 130° | 103.3 | 104.6 | 107.7 | 112.2 | 118.5 | 127.2 | 138.3 | 150.3 | 166.0 | 186.2 | 210.8 |
| 132.5° | 106.4 | 107.9 | 111.3 | 115.9 | 122.5 | 131.3 | 141.9 | 153.6 | 168.1 | 185.9 | 207.8 |
| 135° | 110.9 | 112.2 | 115.9 | 120.6 | 128.0 | 136.7 | 146.9 | 157.8 | 170.5 | 185.6 | 203.5 |
| 137.5° | 115.2 | 116.7 | 120.5 | 125.6 | 132.7 | 140.9 | 150.9 | 161.1 | 172.6 | 185.5 | 200.5 |
| 140° | 118.5 | 119.8 | 123.5 | 128.6 | 135.5 | 143.7 | 153.1 | 162.9 | 173.6 | 185.3 | 198.8 |
| 142.5° | 121.7 | 122.8 | 126.3 | 131.3 | 138.0 | 145.7 | 154.9 | 164.4 | 174.3 | 185.3 | 197.1 |
| 145° | 126.6 | 128.0 | 131.1 | 135.8 | 142.1 | 149.0 | 157.6 | 166.4 | 175.1 | 184.6 | 194.7 |
| 147.5° | 132.0 | 132.9 | 135.9 | 140.3 | 145.5 | 151.7 | 159.7 | 167.5 | 175.4 | 183.5 | 192.3 |
| 150° | 135.5 | 136.4 | 138.9 | 143.0 | 147.8 | 153.5 | 160.7 | 167.9 | 175.1 | 182.7 | 190.3 |
| 152.5° | 139.0 | 139.5 | 142.0 | 145.5 | 150.1 | 155.2 | 161.7 | 168.2 | 174.7 | 181.5 | 188.5 |
| 155° | 144.0 | 144.3 | 146.2 | 149.6 | 153.1 | 157.8 | 163.2 | 168.5 | 173.9 | 179.2 | 185.3 |
| 157.5° | 148.1 | 148.5 | 150.0 | 153.0 | 155.8 | 159.7 | 164.3 | 168.5 | 172.5 | 177.0 | 182.2 |
| 160° | 150.9 | 151.2 | 152.5 | 155.0 | 157.6 | 161.0 | 164.8 | 168.5 | 171.7 | 175.5 | 179.9 |
| 162.5° | 153.7 | 153.5 | 154.8 | 156.8 | 159.1 | 161.8 | 165.1 | 168.3 | 170.9 | 174.2 | 177.9 |
| 165° | 156.9 | 156.6 | 157.2 | 159.1 | 160.7 | 162.6 | 165.4 | 167.6 | 169.5 | 171.7 | 174.5 |
| 167.5° | 159.5 | 159.2 | 159.7 | 161.0 | 162.1 | 163.3 | 165.3 | 167.2 | 168.1 | 169.5 | 171.3 |
| 170° | 161.3 | 160.7 | 161.0 | 161.9 | 162.6 | 163.5 | 165.1 | 166.7 | 167.3 | 168.3 | 169.5 |
| 172.5° | 162.3 | 161.9 | 161.8 | 162.7 | 163.1 | 163.8 | 164.9 | 165.9 | 166.3 | 166.7 | 167.7 |
| 175° | 163.5 | 163.2 | 162.9 | 163.5 | 163.5 | 163.8 | 164.4 | 165.1 | 164.8 | 165.1 | 165.4 |
| 177.5° | 164.1 | 163.5 | 163.4 | 163.8 | 163.8 | 163.8 | 164.1 | 164.6 | 164.1 | 163.8 | 164.1 |
| 180° | 163.8 | 163.8 | 163.8 | 163.8 | 163.8 | 163.8 | 163.8 | 163.8 | 163.8 | 163.8 | 163.8 |



TEST NUMBER: P331650-940

CATALOG NUMBER: S122RDIP-S485D330U940-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 735.8 | 735.8 | 735.8 | 735.8 | 735.8 | 735.8 | 735.8 | 735.8 |
| 2.5° | 732.4 | 733.6 | 734.8 | 735.2 | 735.0 | 734.8 | 734.5 | 734.3 |
| 5° | 726.6 | 727.9 | 729.2 | 729.7 | 729.2 | 728.8 | 728.3 | 727.9 |
| 7.5° | 714.8 | 715.2 | 715.6 | 715.4 | 714.6 | 713.8 | 713.1 | 712.3 |
| 10° | 703.0 | 702.6 | 702.1 | 701.5 | 700.6 | 699.7 | 698.8 | 697.9 |
| 12.5° | 689.6 | 688.8 | 688.0 | 686.8 | 685.3 | 683.9 | 682.3 | 680.9 |
| 15° | 664.3 | 661.6 | 658.7 | 656.6 | 655.1 | 653.6 | 652.1 | 650.7 |
| 17.5° | 635.8 | 632.5 | 629.1 | 626.2 | 623.7 | 621.1 | 618.6 | 616.0 |
| 20° | 615.9 | 612.2 | 608.5 | 605.0 | 601.8 | 598.5 | 595.3 | 592.0 |
| 22.5° | 594.1 | 589.3 | 584.6 | 580.9 | 578.5 | 576.1 | 573.7 | 571.2 |
| 25° | 557.9 | 551.9 | 545.8 | 541.6 | 539.4 | 537.2 | 535.0 | 532.8 |
| 27.5° | 523.4 | 516.3 | 509.3 | 504.0 | 500.4 | 497.0 | 493.4 | 489.9 |
| 30° | 499.0 | 491.5 | 483.9 | 478.1 | 474.1 | 470.2 | 466.2 | 462.2 |
| 32.5° | 474.5 | 465.9 | 457.3 | 451.1 | 447.4 | 443.6 | 439.8 | 436.0 |
| 35° | 436.2 | 426.9 | 417.6 | 411.3 | 408.0 | 404.7 | 401.5 | 398.2 |
| 37.5° | 398.9 | 388.6 | 378.4 | 371.3 | 367.7 | 363.9 | 360.2 | 356.4 |
| 40° | 373.9 | 363.4 | 352.8 | 345.7 | 341.9 | 338.0 | 334.1 | 330.3 |
| 42.5° | 348.7 | 337.8 | 327.0 | 319.7 | 315.9 | 312.2 | 308.4 | 304.7 |
| 45° | 311.9 | 301.5 | 291.0 | 283.9 | 280.4 | 276.8 | 273.2 | 269.7 |
| 47.5° | 276.3 | 265.8 | 255.4 | 248.5 | 245.3 | 242.1 | 238.8 | 235.6 |
| 50° | 253.2 | 243.1 | 232.8 | 226.2 | 223.1 | 220.0 | 216.9 | 213.7 |
| 52.5° | 231.6 | 221.8 | 211.9 | 205.5 | 202.7 | 199.8 | 196.9 | 194.0 |
| 55° | 198.7 | 189.8 | 180.9 | 175.0 | 172.3 | 169.4 | 166.7 | 163.8 |
| 57.5° | 168.7 | 160.6 | 152.5 | 147.2 | 144.8 | 142.5 | 140.1 | 137.7 |
| 60° | 148.0 | 140.5 | 133.0 | 128.0 | 125.6 | 123.2 | 120.9 | 118.5 |
| 62.5° | 130.1 | 123.0 | 115.7 | 111.5 | 110.0 | 108.6 | 107.2 | 105.8 |
| 65° | 105.8 | 100.8 | 95.8 | 93.0 | 92.6 | 92.1 | 91.7 | 91.2 |
| 67.5° | 85.4 | 83.1 | 80.8 | 79.5 | 78.9 | 78.5 | 78.0 | 77.5 |
| 70° | 74.3 | 72.9 | 71.3 | 70.3 | 69.7 | 69.1 | 68.5 | 67.9 |
| 72.5° | 64.6 | 63.4 | 62.2 | 61.3 | 61.0 | 60.6 | 60.3 | 59.9 |
| 75° | 51.2 | 50.2 | 49.1 | 48.5 | 48.4 | 48.2 | 48.1 | 48.0 |
| 77.5° | 38.8 | 38.2 | 37.6 | 37.2 | 36.9 | 36.7 | 36.5 | 36.2 |
| 80° | 30.8 | 30.2 | 29.6 | 29.3 | 29.3 | 29.3 | 29.3 | 29.3 |
| 82.5° | 23.3 | 22.9 | 22.6 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 |
| 85° | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 |
| 87.5° | 6.1 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| 90° | 10.1 | 9.5 | 10.1 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 |
| 92.5° | 27.5 | 23.5 | 21.0 | 19.0 | 18.7 | 17.7 | 17.9 | 17.5 |
| 95° | 82.6 | 63.3 | 50.1 | 43.2 | 39.1 | 36.6 | 35.6 | 35.9 |
| 97.5° | 192.6 | 157.6 | 123.5 | 100.8 | 85.7 | 77.9 | 73.4 | 70.7 |
| 100° | 287.7 | 248.6 | 205.5 | 167.3 | 141.2 | 127.6 | 118.5 | 112.8 |
| 102.5° | 349.9 | 341.1 | 309.5 | 269.1 | 240.7 | 217.6 | 206.2 | 198.5 |
| 105° | 382.8 | 418.4 | 422.5 | 412.1 | 392.5 | 373.0 | 359.4 | 355.1 |
| 107.5° | 359.1 | 412.8 | 445.5 | 460.7 | 463.2 | 462.2 | 459.4 | 453.6 |
| 110° | 338.7 | 395.1 | 435.4 | 461.3 | 474.8 | 480.8 | 483.7 | 483.3 |



TEST NUMBER: P331650-940

CATALOG NUMBER: S122RDIP-S485D330U940-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 320.0 | 374.2 | 417.2 | 446.9 | 465.7 | 475.7 | 481.1 | 482.8 |
| 115° | 297.1 | 345.6 | 386.9 | 419.4 | 441.8 | 456.2 | 464.4 | 467.3 |
| 117.5° | 279.8 | 322.4 | 359.9 | 390.3 | 413.1 | 428.5 | 437.0 | 439.4 |
| 120° | 271.3 | 310.3 | 343.8 | 372.4 | 394.5 | 409.3 | 418.4 | 421.6 |
| 122.5° | 264.5 | 300.2 | 331.9 | 357.8 | 377.6 | 392.2 | 400.3 | 402.9 |
| 125° | 254.6 | 287.0 | 314.8 | 338.4 | 356.7 | 368.6 | 376.5 | 379.1 |
| 127.5° | 244.8 | 274.2 | 300.3 | 322.1 | 338.0 | 349.3 | 356.1 | 358.1 |
| 130° | 238.5 | 265.6 | 290.5 | 311.3 | 326.7 | 337.4 | 343.8 | 346.3 |
| 132.5° | 232.5 | 257.5 | 280.4 | 300.0 | 315.1 | 325.8 | 331.6 | 333.9 |
| 135° | 224.0 | 244.8 | 265.6 | 283.2 | 296.8 | 307.2 | 312.9 | 314.1 |
| 137.5° | 217.3 | 234.7 | 251.2 | 266.5 | 278.9 | 287.8 | 292.8 | 294.7 |
| 140° | 212.9 | 228.1 | 242.6 | 256.5 | 266.5 | 274.7 | 279.5 | 281.3 |
| 142.5° | 209.5 | 222.3 | 234.8 | 246.4 | 255.9 | 263.4 | 267.6 | 268.0 |
| 145° | 204.5 | 214.9 | 224.6 | 233.8 | 241.3 | 246.7 | 249.9 | 250.7 |
| 147.5° | 200.6 | 208.8 | 216.4 | 223.1 | 229.3 | 233.6 | 235.8 | 236.4 |
| 150° | 197.9 | 204.8 | 211.4 | 217.0 | 221.8 | 225.6 | 227.5 | 227.8 |
| 152.5° | 195.1 | 201.5 | 207.1 | 212.0 | 215.8 | 219.0 | 220.4 | 220.5 |
| 155° | 191.3 | 196.3 | 201.0 | 204.5 | 207.9 | 210.2 | 211.4 | 210.8 |
| 157.5° | 186.8 | 191.0 | 194.9 | 197.7 | 200.1 | 202.0 | 202.5 | 202.5 |
| 160° | 184.0 | 187.4 | 190.9 | 193.1 | 195.4 | 196.9 | 197.2 | 197.2 |
| 162.5° | 181.2 | 184.2 | 187.2 | 188.9 | 191.1 | 192.2 | 192.4 | 192.2 |
| 165° | 177.1 | 179.2 | 181.5 | 182.7 | 184.0 | 185.3 | 185.3 | 184.9 |
| 167.5° | 173.1 | 174.8 | 176.3 | 177.5 | 178.0 | 178.7 | 178.6 | 178.3 |
| 170° | 171.1 | 172.0 | 173.3 | 173.9 | 174.2 | 175.1 | 174.9 | 174.2 |
| 172.5° | 168.8 | 169.5 | 170.5 | 170.9 | 171.2 | 171.7 | 171.3 | 170.9 |
| 175° | 166.4 | 166.7 | 167.0 | 167.3 | 167.3 | 167.6 | 167.3 | 166.7 |
| 177.5° | 164.6 | 164.6 | 164.9 | 164.9 | 164.9 | 164.9 | 164.6 | 164.1 |
| 180° | 163.8 | 163.8 | 163.8 | 163.8 | 163.8 | 163.8 | 163.8 | 163.8 |

(END OF REPORT)