

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: P331329-830

Luminaire Tested: **SA2XXDIP-C485D1080U830-4F0-1E-UDD-F4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331329-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C485D1080U830-4F0-1E-UDD-F4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 1080 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

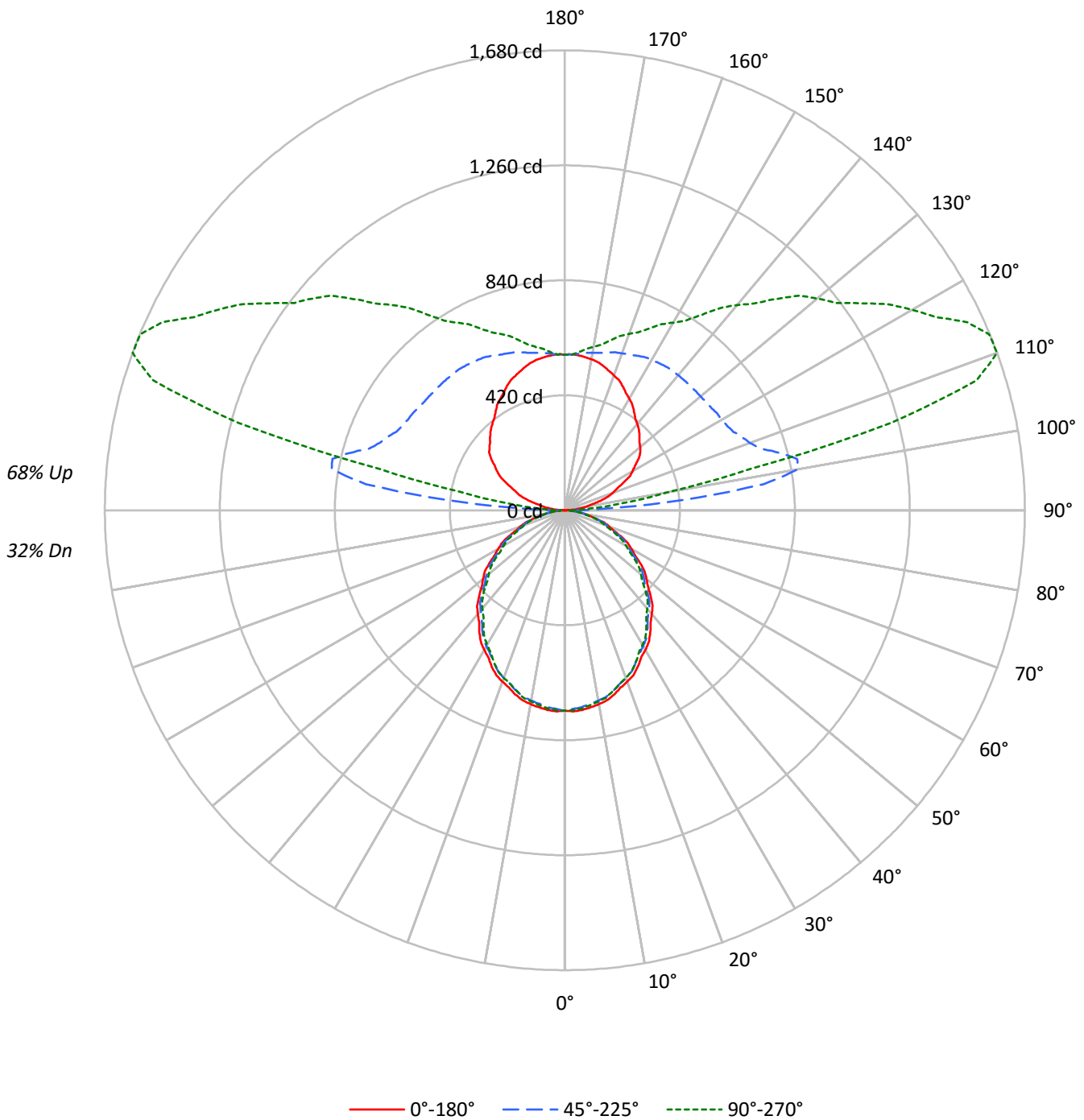
Lumens per Lamp: N/A
Luminaire Lumens: 5829.6 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.3
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 49.4
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: P331329-830
CATALOG NUMBER: SA2XXDIP-C485D1080U830-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P331329-830

CATALOG NUMBER: SA2XXDIP-C485D1080U830-4F0-1E-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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 73 | 73 | 73 | 56 | 56 | 56 | 40 | 40 | 40 | 32 | | | | |
| 1 | 94 | 90 | 86 | 82 | 84 | 81 | 78 | 75 | 64 | 62 | 60 | 49 | 48 | 46 | 35 | 34 | 33 | 27 | | | | |
| 2 | 85 | 78 | 72 | 67 | 77 | 70 | 65 | 61 | 56 | 53 | 50 | 43 | 41 | 39 | 31 | 29 | 28 | 23 | | | | |
| 3 | 78 | 69 | 62 | 56 | 70 | 62 | 56 | 51 | 50 | 45 | 42 | 38 | 35 | 33 | 27 | 25 | 24 | 19 | | | | |
| 4 | 71 | 61 | 53 | 47 | 64 | 55 | 48 | 43 | 44 | 39 | 35 | 34 | 31 | 28 | 24 | 22 | 21 | 16 | | | | |
| 5 | 65 | 54 | 46 | 40 | 58 | 49 | 42 | 37 | 39 | 34 | 30 | 30 | 27 | 24 | 22 | 20 | 18 | 14 | | | | |
| 6 | 60 | 48 | 40 | 35 | 54 | 44 | 37 | 32 | 35 | 30 | 26 | 27 | 24 | 21 | 20 | 18 | 16 | 13 | | | | |
| 7 | 55 | 43 | 36 | 30 | 50 | 39 | 33 | 28 | 32 | 27 | 23 | 25 | 21 | 19 | 18 | 16 | 14 | 11 | | | | |
| 8 | 51 | 39 | 32 | 27 | 46 | 36 | 29 | 25 | 29 | 24 | 20 | 23 | 19 | 16 | 17 | 14 | 12 | 10 | | | | |
| 9 | 48 | 36 | 29 | 24 | 43 | 33 | 26 | 22 | 26 | 22 | 18 | 21 | 17 | 15 | 15 | 13 | 11 | 9 | | | | |
| 10 | 44 | 33 | 26 | 21 | 40 | 30 | 24 | 19 | 24 | 20 | 16 | 19 | 16 | 13 | 14 | 12 | 10 | 8 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 11820 | 11820 | 11820 |
| 5° | 11866 | 11694 | 11763 |
| 10° | 11795 | 11576 | 11632 |
| 15° | 11649 | 11425 | 11413 |
| 20° | 11442 | 11201 | 11187 |
| 25° | 11236 | 10922 | 10922 |
| 30° | 10972 | 10670 | 10577 |
| 35° | 10724 | 10364 | 10212 |
| 40° | 10416 | 10060 | 9866 |
| 45° | 10111 | 9757 | 9515 |
| 50° | 9779 | 9442 | 9105 |
| 55° | 9433 | 9073 | 8740 |
| 60° | 9045 | 8638 | 8318 |
| 65° | 8630 | 8202 | 7824 |
| 70° | 8105 | 7676 | 7312 |
| 75° | 7380 | 7068 | 6900 |
| 80° | 6546 | 6341 | 6025 |
| 85° | 5335 | 5076 | 4557 |



TEST NUMBER: P331329-830

CATALOG NUMBER: SA2XXDIP-C485D1080U830-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 68.8 | 1.2 |
| 10°-20° | 193.7 | 3.3 |
| 20°-30° | 284.7 | 4.9 |
| 30°-40° | 330.7 | 5.7 |
| 40°-50° | 330.4 | 5.7 |
| 50°-60° | 288.1 | 4.9 |
| 60°-70° | 213.0 | 3.7 |
| 70°-80° | 120.7 | 2.1 |
| 80°-90° | 37.6 | 0.6 |
| 90°-100° | 227.7 | 3.9 |
| 100°-110° | 772.5 | 13.3 |
| 110°-120° | 820.7 | 14.1 |
| 120°-130° | 675.6 | 11.6 |
| 130°-140° | 542.5 | 9.3 |
| 140°-150° | 410.0 | 7.0 |
| 150°-160° | 288.1 | 4.9 |
| 160°-170° | 169.6 | 2.9 |
| 170°-180° | 55.2 | 0.9 |
| 0°-30° | 547.2 | 9.4 |
| 0°-40° | 878.0 | 15.1 |
| 0°-60° | 1496.4 | 25.7 |
| 0°-90° | 1867.6 | 32.0 |
| 90°-120° | 1820.9 | 31.2 |
| 90°-150° | 3449.0 | 59.2 |
| 90°-180° | 3962.0 | 68.0 |
| 0°-180° | 5829.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|------|------|
| 0° | 732 | 732 | 732 | 732 | 732 | |
| 5° | 732 | 729 | 722 | 727 | 726 | 69 |
| 15° | 697 | 692 | 684 | 686 | 683 | 196 |
| 25° | 631 | 625 | 613 | 614 | 613 | 290 |
| 35° | 544 | 537 | 526 | 522 | 518 | 340 |
| 45° | 443 | 438 | 427 | 420 | 417 | 342 |
| 55° | 335 | 331 | 322 | 314 | 310 | 299 |
| 65° | 226 | 222 | 215 | 208 | 205 | 223 |
| 75° | 118 | 117 | 113 | 109 | 111 | 126 |
| 85° | 29 | 28 | 27 | 25 | 25 | 33 |
| 90° | 1 | 15 | 37 | 36 | 36 | 4 |
| 95° | 38 | 94 | 429 | 162 | 125 | 41 |
| 105° | 134 | 202 | 811 | 1450 | 1234 | 142 |
| 115° | 235 | 297 | 679 | 1401 | 1624 | 233 |
| 125° | 328 | 389 | 653 | 1135 | 1317 | 292 |
| 135° | 385 | 460 | 645 | 954 | 1092 | 298 |
| 145° | 440 | 506 | 642 | 797 | 872 | 276 |
| 155° | 500 | 540 | 623 | 705 | 732 | 230 |
| 165° | 545 | 562 | 597 | 633 | 643 | 154 |
| 175° | 568 | 569 | 574 | 581 | 579 | 54 |
| 180° | 569 | 569 | 569 | 569 | 569 | |



TEST NUMBER: P331329-830

CATALOG NUMBER: SA2XXDIP-C485D1080U830-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0° | 732.1 | 732.1 | 732.1 | 732.1 | 732.1 | 732.1 | 732.1 | 732.1 | 732.1 | 732.1 | 732.1 |
| 2.5° | 735.5 | 734.8 | 734.2 | 733.6 | 732.9 | 732.0 | 730.6 | 729.2 | 727.8 | 726.4 | 727.7 |
| 5° | 732.1 | 731.4 | 730.8 | 730.2 | 729.6 | 728.4 | 726.7 | 725.0 | 723.2 | 721.5 | 722.7 |
| 7.5° | 725.6 | 724.6 | 723.7 | 722.6 | 721.7 | 720.4 | 718.6 | 716.9 | 715.1 | 713.3 | 714.6 |
| 10° | 719.4 | 718.3 | 717.2 | 716.1 | 715.0 | 713.5 | 711.6 | 709.8 | 707.9 | 706.1 | 707.3 |
| 12.5° | 711.0 | 710.0 | 709.0 | 708.0 | 707.1 | 705.7 | 703.8 | 701.9 | 700.0 | 698.1 | 699.0 |
| 15° | 696.9 | 696.0 | 695.0 | 694.1 | 693.1 | 691.6 | 689.6 | 687.6 | 685.5 | 683.5 | 684.1 |
| 17.5° | 678.8 | 678.0 | 677.0 | 676.1 | 675.1 | 673.6 | 671.6 | 669.5 | 667.4 | 665.3 | 666.1 |
| 20° | 665.9 | 665.0 | 664.0 | 663.1 | 662.1 | 660.6 | 658.4 | 656.2 | 654.0 | 651.9 | 652.3 |
| 22.5° | 653.0 | 651.7 | 650.4 | 649.0 | 647.7 | 646.0 | 643.9 | 641.9 | 639.8 | 637.7 | 637.8 |
| 25° | 630.7 | 629.4 | 628.2 | 627.0 | 625.8 | 623.8 | 621.1 | 618.4 | 615.8 | 613.1 | 613.4 |
| 27.5° | 605.4 | 604.3 | 603.1 | 602.0 | 600.9 | 599.3 | 597.2 | 595.0 | 593.0 | 590.9 | 590.4 |
| 30° | 588.5 | 587.2 | 586.0 | 584.8 | 583.4 | 581.6 | 579.3 | 577.0 | 574.7 | 572.3 | 571.8 |
| 32.5° | 570.4 | 569.5 | 568.4 | 567.4 | 566.5 | 564.7 | 562.2 | 559.8 | 557.3 | 554.9 | 554.0 |
| 35° | 544.1 | 542.5 | 541.0 | 539.4 | 537.9 | 535.8 | 533.4 | 530.8 | 528.3 | 525.8 | 524.9 |
| 37.5° | 514.4 | 513.0 | 511.7 | 510.3 | 508.9 | 507.0 | 504.4 | 502.0 | 499.5 | 497.0 | 495.8 |
| 40° | 494.2 | 492.9 | 491.6 | 490.4 | 489.2 | 487.3 | 484.7 | 482.3 | 479.8 | 477.3 | 475.9 |
| 42.5° | 474.5 | 473.2 | 471.9 | 470.7 | 469.5 | 467.6 | 465.1 | 462.6 | 460.1 | 457.5 | 456.0 |
| 45° | 442.8 | 441.7 | 440.5 | 439.5 | 438.4 | 436.7 | 434.3 | 432.0 | 429.6 | 427.3 | 425.6 |
| 47.5° | 411.2 | 410.2 | 409.2 | 408.1 | 407.1 | 405.4 | 402.9 | 400.5 | 398.0 | 395.6 | 393.8 |
| 50° | 389.3 | 388.5 | 387.7 | 386.9 | 386.2 | 384.7 | 382.5 | 380.3 | 378.1 | 375.9 | 373.7 |
| 52.5° | 367.9 | 366.8 | 365.8 | 364.8 | 363.7 | 362.2 | 360.1 | 358.1 | 356.0 | 353.9 | 352.1 |
| 55° | 335.1 | 334.1 | 333.2 | 332.2 | 331.3 | 329.9 | 328.0 | 326.1 | 324.2 | 322.3 | 320.6 |
| 57.5° | 302.1 | 301.3 | 300.6 | 299.9 | 299.2 | 297.7 | 295.7 | 293.6 | 291.5 | 289.5 | 287.6 |
| 60° | 280.1 | 279.6 | 278.9 | 278.2 | 277.7 | 276.3 | 274.1 | 271.8 | 269.7 | 267.5 | 265.8 |
| 62.5° | 258.7 | 257.8 | 256.7 | 255.7 | 254.8 | 253.4 | 251.8 | 250.1 | 248.4 | 246.7 | 245.1 |
| 65° | 225.9 | 225.0 | 224.0 | 223.1 | 222.3 | 220.9 | 219.4 | 217.8 | 216.2 | 214.7 | 213.3 |
| 67.5° | 192.6 | 191.8 | 191.1 | 190.3 | 189.5 | 188.5 | 187.1 | 185.7 | 184.3 | 182.9 | 181.8 |
| 70° | 171.7 | 171.2 | 170.5 | 169.8 | 169.3 | 168.2 | 166.8 | 165.4 | 164.0 | 162.6 | 161.6 |
| 72.5° | 150.3 | 149.8 | 149.1 | 148.5 | 147.9 | 147.1 | 146.2 | 145.2 | 144.4 | 143.5 | 142.3 |
| 75° | 118.3 | 117.9 | 117.6 | 117.3 | 117.0 | 116.5 | 115.6 | 114.9 | 114.1 | 113.3 | 112.4 |
| 77.5° | 89.5 | 89.0 | 88.5 | 87.9 | 87.4 | 87.0 | 86.7 | 86.3 | 86.1 | 85.8 | 85.3 |
| 80° | 70.4 | 70.2 | 70.1 | 69.9 | 69.7 | 69.6 | 69.2 | 68.9 | 68.6 | 68.2 | 67.8 |
| 82.5° | 52.4 | 52.3 | 52.3 | 52.3 | 52.2 | 52.1 | 51.9 | 51.7 | 51.6 | 51.4 | 50.8 |
| 85° | 28.8 | 28.7 | 28.6 | 28.4 | 28.3 | 28.1 | 27.9 | 27.8 | 27.6 | 27.4 | 27.0 |
| 87.5° | 10.4 | 10.7 | 11.4 | 11.6 | 11.8 | 12.2 | 13.0 | 14.3 | 15.4 | 15.4 | 14.7 |
| 90° | 1.1 | 4.3 | 8.8 | 10.9 | 13.1 | 16.4 | 21.9 | 29.6 | 36.1 | 37.2 | 36.1 |
| 92.5° | 13.4 | 19.2 | 27.1 | 32.0 | 39.4 | 49.7 | 74.5 | 109.2 | 140.3 | 142.3 | 120.3 |
| 95° | 38.4 | 42.7 | 53.6 | 63.5 | 81.1 | 107.3 | 157.7 | 252.9 | 379.9 | 429.2 | 375.6 |
| 97.5° | 62.4 | 68.3 | 79.9 | 94.8 | 115.0 | 144.8 | 208.0 | 340.7 | 551.9 | 732.7 | 768.6 |
| 100° | 84.3 | 87.6 | 97.5 | 115.0 | 136.9 | 167.5 | 225.6 | 359.1 | 595.6 | 865.0 | 1022.7 |
| 102.5° | 104.4 | 106.9 | 116.7 | 134.2 | 157.0 | 187.7 | 241.3 | 360.1 | 579.0 | 869.4 | 1117.3 |
| 105° | 133.6 | 138.0 | 145.6 | 162.0 | 186.2 | 216.8 | 268.2 | 365.7 | 546.4 | 811.3 | 1102.6 |
| 107.5° | 165.1 | 168.6 | 176.1 | 191.1 | 215.1 | 245.9 | 295.9 | 380.8 | 530.2 | 749.1 | 1006.4 |
| 110° | 186.2 | 190.5 | 197.1 | 211.3 | 234.3 | 266.1 | 314.2 | 393.0 | 526.7 | 719.3 | 946.0 |



TEST NUMBER: P331329-830

CATALOG NUMBER: SA2XXDIP-C485D1080U830-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 205.4 | 209.8 | 217.3 | 230.5 | 252.7 | 285.3 | 331.8 | 406.2 | 527.5 | 700.1 | 904.0 |
| 115° | 235.4 | 240.9 | 247.4 | 260.6 | 282.5 | 312.1 | 359.1 | 425.9 | 532.2 | 678.8 | 851.9 |
| 117.5° | 266.6 | 270.9 | 277.5 | 289.1 | 310.1 | 340.7 | 384.3 | 447.0 | 540.0 | 668.5 | 819.0 |
| 120° | 285.8 | 290.1 | 296.7 | 306.6 | 328.5 | 359.1 | 401.8 | 461.0 | 545.3 | 662.4 | 801.4 |
| 122.5° | 304.2 | 307.6 | 314.2 | 325.0 | 346.9 | 378.4 | 418.5 | 473.3 | 551.4 | 658.9 | 786.6 |
| 125° | 328.5 | 331.8 | 338.4 | 351.5 | 373.3 | 404.1 | 443.5 | 492.8 | 560.6 | 652.6 | 765.3 |
| 127.5° | 347.7 | 352.1 | 361.4 | 375.8 | 396.8 | 428.3 | 466.7 | 510.9 | 570.0 | 648.8 | 745.6 |
| 130° | 359.1 | 363.5 | 374.5 | 389.8 | 411.7 | 442.3 | 480.7 | 522.3 | 577.0 | 647.1 | 732.5 |
| 132.5° | 369.7 | 374.9 | 386.7 | 402.9 | 425.7 | 456.4 | 492.9 | 533.7 | 584.0 | 646.2 | 722.0 |
| 135° | 385.4 | 389.8 | 402.9 | 419.3 | 444.5 | 475.2 | 510.2 | 548.6 | 592.4 | 644.9 | 707.3 |
| 137.5° | 400.3 | 405.6 | 418.7 | 436.2 | 461.2 | 489.7 | 524.2 | 560.0 | 599.8 | 644.7 | 697.0 |
| 140° | 411.7 | 416.0 | 429.2 | 446.8 | 470.8 | 499.3 | 532.2 | 566.1 | 603.3 | 643.9 | 690.9 |
| 142.5° | 423.1 | 426.6 | 438.8 | 456.4 | 479.6 | 506.3 | 538.3 | 571.4 | 606.0 | 643.9 | 684.8 |
| 145° | 440.2 | 444.5 | 455.5 | 471.9 | 493.8 | 517.9 | 547.4 | 578.2 | 608.8 | 641.6 | 676.7 |
| 147.5° | 458.5 | 461.8 | 472.3 | 487.5 | 505.7 | 527.1 | 554.9 | 581.8 | 609.6 | 637.7 | 668.4 |
| 150° | 470.8 | 474.1 | 482.9 | 497.1 | 513.5 | 533.2 | 558.5 | 583.6 | 608.8 | 635.1 | 661.3 |
| 152.5° | 483.1 | 484.7 | 493.3 | 505.9 | 521.4 | 539.3 | 561.9 | 584.5 | 607.0 | 630.7 | 655.2 |
| 155° | 500.4 | 501.4 | 508.0 | 520.1 | 532.2 | 548.6 | 567.1 | 585.8 | 604.4 | 623.0 | 643.9 |
| 157.5° | 514.8 | 515.9 | 521.2 | 531.7 | 541.3 | 555.2 | 570.9 | 585.8 | 599.4 | 615.1 | 633.1 |
| 160° | 524.4 | 525.6 | 529.9 | 538.7 | 547.4 | 559.5 | 572.7 | 585.8 | 596.7 | 609.9 | 625.2 |
| 162.5° | 534.1 | 533.5 | 537.8 | 544.8 | 552.7 | 562.1 | 573.5 | 584.9 | 594.1 | 605.5 | 618.2 |
| 165° | 545.3 | 544.2 | 546.4 | 552.9 | 558.5 | 565.0 | 574.9 | 582.5 | 589.1 | 596.7 | 606.6 |
| 167.5° | 554.5 | 553.2 | 555.2 | 559.3 | 563.3 | 567.4 | 574.6 | 581.0 | 584.0 | 589.1 | 595.2 |
| 170° | 560.6 | 558.5 | 559.5 | 562.8 | 565.0 | 568.3 | 573.7 | 579.2 | 581.4 | 584.7 | 589.1 |
| 172.5° | 564.1 | 562.8 | 562.1 | 565.4 | 566.8 | 569.1 | 572.9 | 576.6 | 577.9 | 579.5 | 583.0 |
| 175° | 568.3 | 567.1 | 566.1 | 568.3 | 568.3 | 569.4 | 571.6 | 573.7 | 572.7 | 573.7 | 574.9 |
| 177.5° | 570.2 | 568.4 | 567.6 | 569.4 | 569.4 | 569.4 | 570.2 | 572.0 | 570.2 | 569.4 | 570.2 |
| 180° | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 |



TEST NUMBER: P331329-830

CATALOG NUMBER: SA2XXDIP-C485D1080U830-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 732.1 | 732.1 | 732.1 | 732.1 | 732.1 | 732.1 | 732.1 | 732.1 |
| 2.5° | 729.0 | 730.2 | 731.4 | 732.0 | 731.7 | 731.4 | 731.2 | 730.9 |
| 5° | 724.1 | 725.3 | 726.5 | 727.0 | 726.7 | 726.3 | 726.0 | 725.8 |
| 7.5° | 715.9 | 717.1 | 718.4 | 718.8 | 718.5 | 718.1 | 717.7 | 717.5 |
| 10° | 708.5 | 709.8 | 711.1 | 711.4 | 711.0 | 710.5 | 710.0 | 709.5 |
| 12.5° | 699.9 | 700.8 | 701.6 | 701.9 | 701.5 | 701.3 | 700.9 | 700.5 |
| 15° | 684.8 | 685.4 | 686.0 | 685.9 | 685.1 | 684.4 | 683.6 | 682.8 |
| 17.5° | 666.8 | 667.5 | 668.3 | 668.2 | 667.4 | 666.8 | 666.0 | 665.2 |
| 20° | 652.8 | 653.3 | 653.7 | 653.7 | 653.0 | 652.3 | 651.8 | 651.1 |
| 22.5° | 637.9 | 638.0 | 638.1 | 638.0 | 637.6 | 637.3 | 636.9 | 636.5 |
| 25° | 613.8 | 614.1 | 614.3 | 614.3 | 614.1 | 613.8 | 613.4 | 613.1 |
| 27.5° | 589.9 | 589.5 | 589.0 | 588.4 | 587.7 | 586.9 | 586.2 | 585.4 |
| 30° | 571.4 | 570.9 | 570.4 | 569.9 | 569.2 | 568.6 | 568.0 | 567.3 |
| 32.5° | 553.2 | 552.3 | 551.5 | 550.7 | 550.1 | 549.5 | 548.8 | 548.2 |
| 35° | 524.0 | 523.0 | 522.1 | 521.2 | 520.5 | 519.6 | 518.9 | 518.1 |
| 37.5° | 494.6 | 493.5 | 492.4 | 491.3 | 490.6 | 489.8 | 489.1 | 488.4 |
| 40° | 474.5 | 473.1 | 471.6 | 470.6 | 470.0 | 469.4 | 468.7 | 468.1 |
| 42.5° | 454.5 | 453.0 | 451.4 | 450.3 | 449.3 | 448.5 | 447.6 | 446.7 |
| 45° | 423.9 | 422.2 | 420.4 | 419.2 | 418.6 | 418.0 | 417.4 | 416.7 |
| 47.5° | 392.0 | 390.1 | 388.3 | 387.0 | 386.1 | 385.2 | 384.3 | 383.3 |
| 50° | 371.6 | 369.3 | 367.1 | 365.6 | 364.9 | 364.1 | 363.3 | 362.5 |
| 52.5° | 350.3 | 348.5 | 346.7 | 345.3 | 344.2 | 343.2 | 342.1 | 341.1 |
| 55° | 318.7 | 316.8 | 314.9 | 313.6 | 312.7 | 312.0 | 311.2 | 310.5 |
| 57.5° | 285.8 | 283.9 | 282.1 | 280.9 | 280.2 | 279.7 | 279.1 | 278.4 |
| 60° | 264.0 | 262.3 | 260.6 | 259.5 | 259.0 | 258.5 | 258.1 | 257.6 |
| 62.5° | 243.5 | 241.9 | 240.3 | 239.2 | 238.6 | 238.0 | 237.4 | 236.8 |
| 65° | 211.9 | 210.5 | 209.1 | 207.9 | 207.2 | 206.4 | 205.7 | 204.8 |
| 67.5° | 180.7 | 179.6 | 178.5 | 177.7 | 177.0 | 176.3 | 175.8 | 175.1 |
| 70° | 160.4 | 159.3 | 158.3 | 157.4 | 156.7 | 156.1 | 155.5 | 154.9 |
| 72.5° | 141.3 | 140.2 | 139.1 | 138.3 | 137.8 | 137.2 | 136.8 | 136.3 |
| 75° | 111.4 | 110.6 | 109.6 | 109.2 | 109.6 | 109.9 | 110.2 | 110.6 |
| 77.5° | 84.8 | 84.4 | 83.9 | 83.4 | 82.9 | 82.6 | 82.1 | 81.6 |
| 80° | 67.3 | 66.8 | 66.4 | 66.0 | 65.7 | 65.4 | 65.0 | 64.8 |
| 82.5° | 50.2 | 49.6 | 49.0 | 48.6 | 48.6 | 48.5 | 48.4 | 48.4 |
| 85° | 26.5 | 26.0 | 25.5 | 25.3 | 25.1 | 25.0 | 24.8 | 24.6 |
| 87.5° | 14.1 | 13.3 | 13.4 | 13.4 | 13.2 | 13.1 | 13.0 | 12.8 |
| 90° | 35.1 | 32.9 | 35.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 |
| 92.5° | 95.5 | 81.9 | 72.7 | 65.9 | 65.0 | 61.5 | 62.4 | 60.7 |
| 95° | 286.9 | 220.1 | 174.1 | 150.0 | 135.7 | 127.1 | 123.8 | 124.8 |
| 97.5° | 669.4 | 547.7 | 429.2 | 350.2 | 297.8 | 270.9 | 254.9 | 245.7 |
| 100° | 999.7 | 863.9 | 713.9 | 581.4 | 490.5 | 443.5 | 411.7 | 392.0 |
| 102.5° | 1216.1 | 1185.3 | 1075.6 | 935.3 | 836.5 | 756.2 | 716.5 | 689.8 |
| 105° | 1330.3 | 1454.1 | 1468.3 | 1432.2 | 1364.2 | 1296.4 | 1249.3 | 1234.0 |
| 107.5° | 1248.0 | 1434.4 | 1548.2 | 1601.2 | 1609.8 | 1606.0 | 1596.6 | 1576.2 |
| 110° | 1177.0 | 1373.0 | 1513.2 | 1603.0 | 1650.0 | 1670.8 | 1680.7 | 1679.6 |



TEST NUMBER: P331329-830

CATALOG NUMBER: SA2XXDIP-C485D1080U830-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 1112.2 | 1300.3 | 1450.1 | 1553.0 | 1618.5 | 1653.3 | 1672.0 | 1677.8 |
| 115° | 1032.6 | 1201.2 | 1344.5 | 1457.4 | 1535.1 | 1585.5 | 1613.9 | 1623.8 |
| 117.5° | 972.5 | 1120.6 | 1250.7 | 1356.4 | 1435.7 | 1488.8 | 1518.9 | 1527.2 |
| 120° | 942.7 | 1078.5 | 1194.6 | 1294.2 | 1370.8 | 1422.3 | 1454.1 | 1465.0 |
| 122.5° | 919.1 | 1043.5 | 1153.4 | 1243.4 | 1312.1 | 1362.7 | 1391.0 | 1400.1 |
| 125° | 884.7 | 997.5 | 1093.8 | 1175.9 | 1239.4 | 1281.1 | 1308.4 | 1317.2 |
| 127.5° | 850.7 | 952.8 | 1043.7 | 1119.5 | 1174.9 | 1213.8 | 1237.5 | 1244.5 |
| 130° | 828.9 | 923.0 | 1009.6 | 1081.8 | 1135.5 | 1172.7 | 1194.6 | 1203.3 |
| 132.5° | 807.9 | 895.0 | 974.5 | 1042.4 | 1095.1 | 1132.4 | 1152.5 | 1160.4 |
| 135° | 778.4 | 850.7 | 923.0 | 984.3 | 1031.4 | 1067.5 | 1087.2 | 1091.7 |
| 137.5° | 755.1 | 815.5 | 872.9 | 926.3 | 969.2 | 1000.3 | 1017.7 | 1024.2 |
| 140° | 740.2 | 792.8 | 843.1 | 891.3 | 926.3 | 954.8 | 971.2 | 977.8 |
| 142.5° | 727.9 | 772.6 | 816.0 | 856.2 | 889.5 | 915.4 | 930.0 | 931.3 |
| 145° | 710.6 | 746.8 | 780.7 | 812.5 | 838.7 | 857.3 | 868.3 | 871.6 |
| 147.5° | 697.3 | 725.8 | 752.2 | 775.4 | 797.1 | 812.0 | 819.4 | 821.4 |
| 150° | 687.6 | 711.7 | 734.7 | 754.4 | 770.8 | 784.0 | 790.5 | 791.6 |
| 152.5° | 678.0 | 700.3 | 719.8 | 736.9 | 749.8 | 761.2 | 766.0 | 766.2 |
| 155° | 664.6 | 682.1 | 698.5 | 710.6 | 722.6 | 730.3 | 734.7 | 732.5 |
| 157.5° | 649.0 | 663.7 | 677.5 | 686.9 | 695.5 | 701.8 | 703.8 | 703.8 |
| 160° | 639.4 | 651.5 | 663.5 | 671.2 | 678.8 | 684.3 | 685.4 | 685.4 |
| 162.5° | 629.8 | 640.1 | 650.4 | 656.3 | 663.9 | 667.7 | 668.7 | 667.9 |
| 165° | 615.4 | 623.0 | 630.7 | 635.1 | 639.4 | 643.9 | 643.9 | 642.7 |
| 167.5° | 601.5 | 607.5 | 612.7 | 616.7 | 618.6 | 621.0 | 620.9 | 619.5 |
| 170° | 594.6 | 597.9 | 602.2 | 604.4 | 605.5 | 608.8 | 607.7 | 605.5 |
| 172.5° | 586.6 | 589.1 | 592.6 | 593.9 | 595.0 | 596.5 | 595.4 | 594.1 |
| 175° | 578.2 | 579.2 | 580.3 | 581.4 | 581.4 | 582.5 | 581.4 | 579.2 |
| 177.5° | 572.0 | 572.0 | 572.9 | 572.9 | 572.9 | 572.9 | 572.0 | 570.2 |
| 180° | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 | 569.4 |

(END OF REPORT)