

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: P331291-840

Luminaire Tested: **S122DIP-S485D330U840-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331291-840
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: S122DIP-S485D330U840-4F0-1E-UDD-F
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 330 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3319.0 lumens
Efficiency: N/A
Efficacy: 120.7 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-Direct

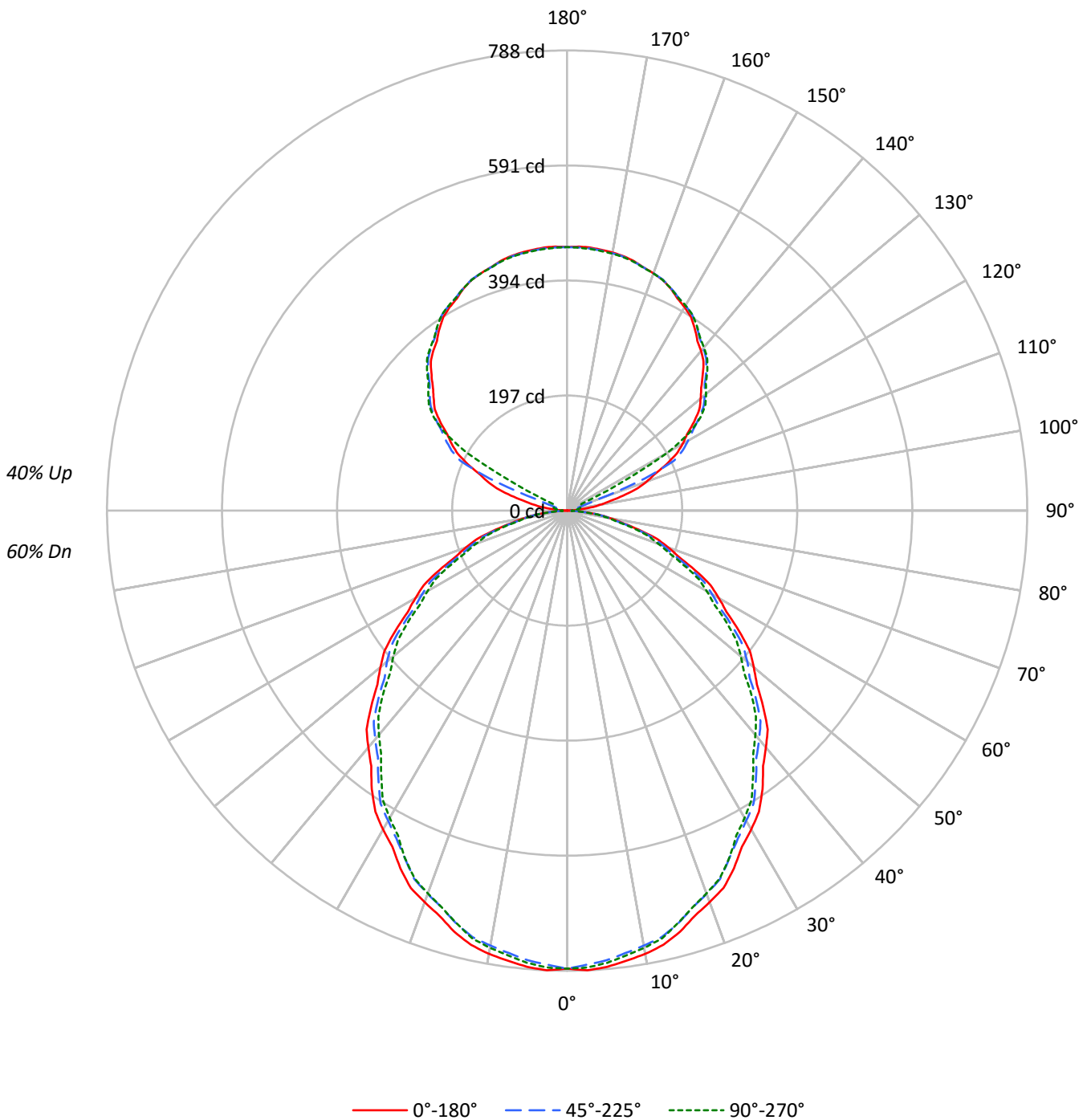
Input Watts (W): 27.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331291-840

CATALOG NUMBER: S122DIP-S485D330U840-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P331291-840

CATALOG NUMBER: S122DIP-S485D330U840-4F0-1E-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 | 110 | 110 | 110 | 110 | 102 | 102 | 102 | 102 | 89 | 89 | 89 | | 77 | 77 | 77 | | 65 | 65 | 65 | 60 |
| 1 | 100 | 96 | 92 | 88 | 93 | 90 | 86 | 83 | 78 | 76 | 73 | | 68 | 66 | 64 | | 58 | 57 | 55 | 51 |
| 2 | 91 | 84 | 77 | 72 | 85 | 78 | 73 | 68 | 68 | 64 | 61 | | 59 | 56 | 53 | | 51 | 49 | 47 | 42 |
| 3 | 83 | 73 | 66 | 60 | 77 | 69 | 62 | 57 | 60 | 55 | 51 | | 52 | 49 | 45 | | 45 | 42 | 40 | 36 |
| 4 | 76 | 65 | 57 | 51 | 71 | 61 | 54 | 48 | 54 | 48 | 44 | | 47 | 42 | 39 | | 40 | 37 | 34 | 31 |
| 5 | 70 | 58 | 50 | 44 | 65 | 55 | 47 | 42 | 48 | 42 | 38 | | 42 | 37 | 34 | | 36 | 33 | 30 | 27 |
| 6 | 64 | 52 | 44 | 38 | 60 | 49 | 42 | 36 | 43 | 37 | 33 | | 38 | 33 | 30 | | 33 | 29 | 26 | 24 |
| 7 | 60 | 47 | 39 | 33 | 56 | 44 | 37 | 32 | 39 | 33 | 29 | | 35 | 30 | 26 | | 30 | 26 | 23 | 21 |
| 8 | 55 | 43 | 35 | 30 | 52 | 41 | 33 | 28 | 36 | 30 | 26 | | 32 | 27 | 23 | | 28 | 24 | 21 | 19 |
| 9 | 52 | 39 | 32 | 26 | 48 | 37 | 30 | 25 | 33 | 27 | 23 | | 29 | 24 | 21 | | 26 | 22 | 19 | 17 |
| 10 | 48 | 36 | 29 | 24 | 45 | 34 | 27 | 23 | 30 | 25 | 21 | | 27 | 22 | 19 | | 24 | 20 | 17 | 15 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 12665 | 12665 | 12665 |
| 5° | 12713 | 12530 | 12603 |
| 10° | 12637 | 12403 | 12463 |
| 15° | 12481 | 12242 | 12227 |
| 20° | 12259 | 12000 | 11986 |
| 25° | 12039 | 11703 | 11703 |
| 30° | 11757 | 11432 | 11332 |
| 35° | 11491 | 11105 | 10941 |
| 40° | 11160 | 10779 | 10570 |
| 45° | 10832 | 10453 | 10195 |
| 50° | 10477 | 10115 | 9756 |
| 55° | 10106 | 9723 | 9362 |
| 60° | 9691 | 9255 | 8913 |
| 65° | 9249 | 8787 | 8382 |
| 70° | 8686 | 8224 | 7832 |
| 75° | 7904 | 7573 | 7392 |
| 80° | 7011 | 6797 | 6453 |
| 85° | 5724 | 5446 | 4891 |



TEST NUMBER: P331291-840

CATALOG NUMBER: S122DIP-S485D330U840-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 73.8 | 2.2 |
| 10°-20° | 207.5 | 6.3 |
| 20°-30° | 305.0 | 9.2 |
| 30°-40° | 354.3 | 10.7 |
| 40°-50° | 354.0 | 10.7 |
| 50°-60° | 308.7 | 9.3 |
| 60°-70° | 228.2 | 6.9 |
| 70°-80° | 129.3 | 3.9 |
| 80°-90° | 35.9 | 1.1 |
| 90°-100° | 15.1 | 0.5 |
| 100°-110° | 55.2 | 1.7 |
| 110°-120° | 147.6 | 4.4 |
| 120°-130° | 243.6 | 7.3 |
| 130°-140° | 259.0 | 7.8 |
| 140°-150° | 240.8 | 7.3 |
| 150°-160° | 193.6 | 5.8 |
| 160°-170° | 124.7 | 3.8 |
| 170°-180° | 42.9 | 1.3 |
| 0°-30° | 586.3 | 17.7 |
| 0°-40° | 940.7 | 28.3 |
| 0°-60° | 1603.3 | 48.3 |
| 0°-90° | 1996.6 | 60.2 |
| 90°-120° | 217.8 | 6.6 |
| 90°-150° | 961.2 | 29.0 |
| 90°-180° | 1322.0 | 39.8 |
| 0°-180° | 3319.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 784 | 784 | 784 | 784 | 784 | |
| 5° | 784 | 781 | 773 | 779 | 778 | 74 |
| 15° | 747 | 742 | 732 | 735 | 732 | 210 |
| 25° | 676 | 669 | 657 | 658 | 657 | 311 |
| 35° | 583 | 575 | 563 | 559 | 555 | 364 |
| 45° | 474 | 469 | 458 | 450 | 446 | 366 |
| 55° | 359 | 354 | 345 | 337 | 333 | 321 |
| 65° | 242 | 237 | 230 | 223 | 219 | 239 |
| 75° | 127 | 125 | 121 | 117 | 118 | 135 |
| 85° | 31 | 30 | 29 | 27 | 26 | 35 |
| 90° | 0 | 4 | 7 | 8 | 9 | 2 |
| 95° | 21 | 11 | 13 | 14 | 14 | 26 |
| 105° | 99 | 104 | 20 | 23 | 25 | 106 |
| 115° | 188 | 193 | 202 | 57 | 27 | 185 |
| 125° | 266 | 270 | 276 | 278 | 279 | 237 |
| 135° | 328 | 334 | 337 | 340 | 339 | 254 |
| 145° | 381 | 381 | 386 | 388 | 387 | 238 |
| 155° | 420 | 417 | 420 | 422 | 420 | 193 |
| 165° | 442 | 440 | 441 | 443 | 441 | 125 |
| 175° | 452 | 450 | 451 | 453 | 450 | 43 |
| 180° | 451 | 451 | 451 | 451 | 451 | |



TEST NUMBER: P331291-840

CATALOG NUMBER: S122DIP-S485D330U840-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 784.4 | 784.4 | 784.4 | 784.4 | 784.4 | 784.4 | 784.4 | 784.4 | 784.4 | 784.4 | 784.4 |
| 2.5° | 788.0 | 787.3 | 786.7 | 786.0 | 785.3 | 784.3 | 782.7 | 781.3 | 779.8 | 778.3 | 779.7 |
| 5° | 784.4 | 783.7 | 783.0 | 782.3 | 781.7 | 780.4 | 778.6 | 776.8 | 774.9 | 773.1 | 774.4 |
| 7.5° | 777.4 | 776.4 | 775.4 | 774.3 | 773.3 | 771.8 | 769.9 | 768.1 | 766.2 | 764.3 | 765.7 |
| 10° | 770.8 | 769.6 | 768.4 | 767.3 | 766.1 | 764.5 | 762.4 | 760.5 | 758.5 | 756.5 | 757.8 |
| 12.5° | 761.7 | 760.7 | 759.6 | 758.6 | 757.6 | 756.1 | 754.1 | 752.0 | 750.0 | 748.0 | 748.9 |
| 15° | 746.7 | 745.7 | 744.7 | 743.7 | 742.7 | 741.0 | 738.8 | 736.7 | 734.5 | 732.4 | 733.0 |
| 17.5° | 727.3 | 726.4 | 725.4 | 724.4 | 723.4 | 721.8 | 719.5 | 717.3 | 715.1 | 712.9 | 713.7 |
| 20° | 713.5 | 712.5 | 711.4 | 710.4 | 709.4 | 707.8 | 705.4 | 703.1 | 700.7 | 698.4 | 698.9 |
| 22.5° | 699.6 | 698.2 | 696.8 | 695.4 | 694.0 | 692.2 | 689.9 | 687.7 | 685.5 | 683.3 | 683.4 |
| 25° | 675.8 | 674.4 | 673.1 | 671.8 | 670.4 | 668.3 | 665.5 | 662.6 | 659.7 | 656.9 | 657.2 |
| 27.5° | 648.6 | 647.4 | 646.2 | 645.0 | 643.8 | 642.1 | 639.9 | 637.5 | 635.3 | 633.1 | 632.6 |
| 30° | 630.6 | 629.1 | 627.8 | 626.5 | 625.1 | 623.2 | 620.7 | 618.2 | 615.7 | 613.2 | 612.7 |
| 32.5° | 611.2 | 610.2 | 609.0 | 607.9 | 606.9 | 605.0 | 602.4 | 599.8 | 597.1 | 594.5 | 593.6 |
| 35° | 583.0 | 581.3 | 579.7 | 577.9 | 576.3 | 574.1 | 571.5 | 568.8 | 566.0 | 563.4 | 562.4 |
| 37.5° | 551.2 | 549.7 | 548.3 | 546.7 | 545.2 | 543.2 | 540.5 | 537.9 | 535.1 | 532.5 | 531.2 |
| 40° | 529.5 | 528.1 | 526.7 | 525.4 | 524.1 | 522.1 | 519.4 | 516.7 | 514.0 | 511.4 | 509.9 |
| 42.5° | 508.4 | 507.0 | 505.6 | 504.3 | 503.0 | 501.0 | 498.3 | 495.6 | 492.9 | 490.2 | 488.6 |
| 45° | 474.4 | 473.2 | 472.0 | 470.9 | 469.7 | 467.9 | 465.3 | 462.8 | 460.3 | 457.8 | 456.0 |
| 47.5° | 440.6 | 439.5 | 438.4 | 437.3 | 436.2 | 434.3 | 431.7 | 429.1 | 426.5 | 423.8 | 421.9 |
| 50° | 417.1 | 416.3 | 415.4 | 414.5 | 413.7 | 412.1 | 409.8 | 407.5 | 405.1 | 402.7 | 400.4 |
| 52.5° | 394.2 | 393.0 | 391.9 | 390.8 | 389.7 | 388.1 | 385.9 | 383.6 | 381.4 | 379.2 | 377.3 |
| 55° | 359.0 | 358.0 | 357.0 | 356.0 | 355.0 | 353.5 | 351.4 | 349.4 | 347.4 | 345.4 | 343.5 |
| 57.5° | 323.7 | 322.9 | 322.0 | 321.3 | 320.5 | 319.0 | 316.8 | 314.6 | 312.4 | 310.1 | 308.1 |
| 60° | 300.1 | 299.5 | 298.8 | 298.1 | 297.5 | 296.0 | 293.7 | 291.2 | 288.9 | 286.6 | 284.8 |
| 62.5° | 277.2 | 276.2 | 275.1 | 274.0 | 273.0 | 271.6 | 269.7 | 267.9 | 266.1 | 264.3 | 262.6 |
| 65° | 242.1 | 241.1 | 240.0 | 239.0 | 238.1 | 236.7 | 235.1 | 233.4 | 231.7 | 230.0 | 228.5 |
| 67.5° | 206.3 | 205.5 | 204.7 | 203.9 | 203.1 | 202.0 | 200.5 | 198.9 | 197.4 | 195.9 | 194.8 |
| 70° | 184.0 | 183.4 | 182.7 | 182.0 | 181.4 | 180.3 | 178.7 | 177.2 | 175.7 | 174.2 | 173.1 |
| 72.5° | 161.1 | 160.5 | 159.8 | 159.1 | 158.4 | 157.6 | 156.6 | 155.6 | 154.7 | 153.7 | 152.5 |
| 75° | 126.7 | 126.3 | 126.0 | 125.7 | 125.3 | 124.8 | 123.9 | 123.1 | 122.3 | 121.4 | 120.4 |
| 77.5° | 95.9 | 95.3 | 94.8 | 94.2 | 93.6 | 93.2 | 92.9 | 92.5 | 92.2 | 91.9 | 91.4 |
| 80° | 75.4 | 75.2 | 75.1 | 74.9 | 74.7 | 74.5 | 74.1 | 73.8 | 73.5 | 73.1 | 72.6 |
| 82.5° | 56.1 | 56.0 | 56.0 | 56.0 | 55.9 | 55.8 | 55.6 | 55.4 | 55.2 | 55.0 | 54.4 |
| 85° | 30.9 | 30.8 | 30.6 | 30.4 | 30.3 | 30.1 | 29.9 | 29.8 | 29.6 | 29.4 | 28.9 |
| 87.5° | 10.9 | 10.8 | 10.7 | 10.6 | 10.5 | 10.4 | 10.2 | 10.1 | 9.9 | 9.8 | 9.4 |
| 90° | 0.3 | 1.1 | 1.9 | 2.7 | 3.5 | 4.2 | 4.7 | 5.4 | 6.0 | 6.6 | 6.9 |
| 92.5° | 6.6 | 6.6 | 6.5 | 6.4 | 6.3 | 6.5 | 6.7 | 7.0 | 7.3 | 7.6 | 7.8 |
| 95° | 21.2 | 18.8 | 16.5 | 14.0 | 11.6 | 10.7 | 11.2 | 11.7 | 12.2 | 12.7 | 13.1 |
| 97.5° | 42.1 | 35.3 | 28.6 | 21.9 | 15.1 | 12.3 | 13.5 | 14.6 | 15.9 | 17.1 | 17.4 |
| 100° | 57.8 | 47.9 | 37.9 | 28.0 | 18.1 | 13.6 | 14.9 | 16.2 | 17.4 | 18.6 | 19.2 |
| 102.5° | 75.0 | 72.9 | 70.8 | 68.8 | 66.7 | 60.4 | 50.1 | 39.8 | 29.5 | 19.1 | 19.9 |
| 105° | 99.3 | 101.4 | 103.6 | 105.8 | 108.0 | 99.2 | 79.4 | 59.6 | 39.7 | 19.9 | 20.7 |
| 107.5° | 126.8 | 128.7 | 130.4 | 132.2 | 133.9 | 122.9 | 99.2 | 75.4 | 51.6 | 27.9 | 27.1 |
| 110° | 144.6 | 146.1 | 147.7 | 149.3 | 150.8 | 141.0 | 120.1 | 99.1 | 78.1 | 57.2 | 49.9 |



TEST NUMBER: P331291-840

CATALOG NUMBER: S122DIP-S485D330U840-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 161.4 | 162.7 | 164.1 | 165.4 | 166.7 | 164.8 | 159.7 | 154.5 | 149.3 | 144.1 | 117.6 |
| 115° | 187.7 | 188.9 | 190.3 | 191.5 | 192.7 | 194.2 | 196.0 | 197.8 | 199.7 | 201.5 | 167.8 |
| 117.5° | 211.4 | 212.7 | 214.1 | 215.5 | 216.8 | 218.1 | 219.4 | 220.7 | 221.9 | 223.2 | 215.0 |
| 120° | 228.5 | 229.6 | 230.8 | 231.9 | 232.9 | 234.1 | 235.4 | 236.7 | 238.0 | 239.3 | 240.2 |
| 122.5° | 243.2 | 244.4 | 245.5 | 246.6 | 247.8 | 249.0 | 250.4 | 251.9 | 253.4 | 254.8 | 255.3 |
| 125° | 265.5 | 266.4 | 267.3 | 268.3 | 269.2 | 270.4 | 271.8 | 273.2 | 274.5 | 275.9 | 276.4 |
| 127.5° | 285.6 | 286.7 | 287.7 | 288.8 | 289.8 | 290.8 | 291.9 | 293.0 | 294.0 | 295.0 | 295.7 |
| 130° | 298.4 | 299.6 | 300.7 | 301.9 | 303.1 | 304.1 | 304.9 | 305.7 | 306.5 | 307.3 | 308.0 |
| 132.5° | 311.5 | 312.5 | 313.5 | 314.5 | 315.5 | 316.3 | 317.1 | 317.9 | 318.7 | 319.5 | 320.2 |
| 135° | 328.5 | 329.6 | 330.8 | 331.9 | 333.2 | 334.1 | 334.7 | 335.4 | 336.0 | 336.7 | 337.4 |
| 137.5° | 345.7 | 346.5 | 347.3 | 348.1 | 348.9 | 349.7 | 350.4 | 351.1 | 351.9 | 352.6 | 353.4 |
| 140° | 356.9 | 357.5 | 358.0 | 358.6 | 359.2 | 359.9 | 360.7 | 361.5 | 362.3 | 363.0 | 363.8 |
| 142.5° | 366.3 | 366.8 | 367.3 | 367.9 | 368.4 | 369.1 | 370.0 | 370.9 | 371.8 | 372.7 | 373.3 |
| 145° | 381.0 | 381.0 | 380.9 | 380.8 | 380.7 | 381.3 | 382.5 | 383.8 | 385.1 | 386.3 | 386.8 |
| 147.5° | 393.9 | 393.6 | 393.3 | 393.0 | 392.8 | 393.2 | 394.5 | 395.8 | 397.0 | 398.2 | 398.5 |
| 150° | 402.2 | 401.7 | 401.2 | 400.7 | 400.2 | 400.6 | 401.7 | 402.9 | 404.0 | 405.3 | 405.7 |
| 152.5° | 409.3 | 408.8 | 408.2 | 407.6 | 407.1 | 407.3 | 408.4 | 409.5 | 410.6 | 411.7 | 412.1 |
| 155° | 419.6 | 418.9 | 418.3 | 417.6 | 417.0 | 417.1 | 418.0 | 418.8 | 419.7 | 420.5 | 421.0 |
| 157.5° | 427.6 | 427.1 | 426.5 | 426.0 | 425.4 | 425.5 | 426.1 | 426.7 | 427.3 | 427.9 | 428.4 |
| 160° | 432.3 | 431.9 | 431.4 | 431.0 | 430.6 | 430.6 | 431.0 | 431.4 | 431.9 | 432.3 | 432.7 |
| 162.5° | 436.5 | 436.1 | 435.7 | 435.2 | 434.7 | 434.7 | 435.0 | 435.5 | 435.9 | 436.3 | 436.8 |
| 165° | 442.1 | 441.7 | 441.2 | 440.8 | 440.4 | 440.3 | 440.5 | 440.7 | 440.9 | 441.1 | 441.6 |
| 167.5° | 446.3 | 445.9 | 445.5 | 444.9 | 444.5 | 444.4 | 444.6 | 444.8 | 445.0 | 445.2 | 445.8 |
| 170° | 448.7 | 448.2 | 447.8 | 447.4 | 446.9 | 446.8 | 446.9 | 447.1 | 447.2 | 447.4 | 447.9 |
| 172.5° | 450.2 | 449.8 | 449.3 | 448.9 | 448.5 | 448.3 | 448.5 | 448.6 | 448.8 | 448.9 | 449.4 |
| 175° | 452.2 | 451.7 | 451.2 | 450.7 | 450.2 | 450.0 | 450.2 | 450.3 | 450.5 | 450.6 | 451.1 |
| 177.5° | 452.5 | 452.1 | 451.7 | 451.3 | 450.9 | 450.8 | 450.8 | 450.9 | 450.9 | 451.0 | 451.4 |
| 180° | 451.2 | 451.2 | 451.2 | 451.2 | 451.2 | 451.2 | 451.2 | 451.2 | 451.2 | 451.2 | 451.2 |



TEST NUMBER: P331291-840

CATALOG NUMBER: S122DIP-S485D330U840-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 784.4 | 784.4 | 784.4 | 784.4 | 784.4 | 784.4 | 784.4 | 784.4 |
| 2.5° | 781.0 | 782.3 | 783.7 | 784.3 | 784.0 | 783.7 | 783.5 | 783.2 |
| 5° | 775.8 | 777.1 | 778.4 | 778.9 | 778.6 | 778.2 | 777.9 | 777.6 |
| 7.5° | 767.0 | 768.3 | 769.7 | 770.1 | 769.8 | 769.4 | 769.0 | 768.7 |
| 10° | 759.1 | 760.5 | 761.8 | 762.2 | 761.7 | 761.2 | 760.7 | 760.2 |
| 12.5° | 749.9 | 750.8 | 751.7 | 752.0 | 751.6 | 751.3 | 750.9 | 750.5 |
| 15° | 733.7 | 734.4 | 735.0 | 734.9 | 734.1 | 733.3 | 732.5 | 731.5 |
| 17.5° | 714.4 | 715.2 | 716.0 | 715.9 | 715.1 | 714.4 | 713.6 | 712.8 |
| 20° | 699.4 | 699.9 | 700.4 | 700.3 | 699.6 | 698.9 | 698.3 | 697.6 |
| 22.5° | 683.5 | 683.6 | 683.7 | 683.6 | 683.2 | 682.8 | 682.4 | 682.0 |
| 25° | 657.6 | 657.9 | 658.2 | 658.2 | 657.9 | 657.6 | 657.2 | 656.9 |
| 27.5° | 632.1 | 631.6 | 631.1 | 630.5 | 629.7 | 628.8 | 628.0 | 627.2 |
| 30° | 612.2 | 611.7 | 611.2 | 610.6 | 609.9 | 609.3 | 608.5 | 607.8 |
| 32.5° | 592.7 | 591.8 | 590.9 | 590.1 | 589.4 | 588.8 | 588.0 | 587.3 |
| 35° | 561.4 | 560.4 | 559.4 | 558.5 | 557.6 | 556.7 | 555.9 | 555.1 |
| 37.5° | 530.0 | 528.8 | 527.6 | 526.4 | 525.6 | 524.8 | 524.0 | 523.3 |
| 40° | 508.4 | 506.9 | 505.3 | 504.2 | 503.5 | 502.9 | 502.2 | 501.5 |
| 42.5° | 487.0 | 485.3 | 483.6 | 482.4 | 481.4 | 480.5 | 479.6 | 478.6 |
| 45° | 454.1 | 452.3 | 450.4 | 449.2 | 448.5 | 447.9 | 447.2 | 446.5 |
| 47.5° | 420.0 | 418.0 | 416.1 | 414.7 | 413.6 | 412.7 | 411.7 | 410.7 |
| 50° | 398.1 | 395.7 | 393.3 | 391.7 | 390.9 | 390.1 | 389.2 | 388.4 |
| 52.5° | 375.4 | 373.3 | 371.4 | 369.9 | 368.8 | 367.7 | 366.6 | 365.5 |
| 55° | 341.4 | 339.4 | 337.4 | 336.0 | 335.1 | 334.3 | 333.5 | 332.6 |
| 57.5° | 306.2 | 304.2 | 302.3 | 300.9 | 300.2 | 299.6 | 299.0 | 298.3 |
| 60° | 282.9 | 281.0 | 279.2 | 278.0 | 277.5 | 277.0 | 276.5 | 276.0 |
| 62.5° | 260.8 | 259.1 | 257.4 | 256.3 | 255.6 | 255.0 | 254.4 | 253.7 |
| 65° | 227.0 | 225.5 | 224.0 | 222.8 | 222.0 | 221.2 | 220.4 | 219.4 |
| 67.5° | 193.6 | 192.4 | 191.3 | 190.4 | 189.7 | 188.9 | 188.3 | 187.6 |
| 70° | 171.9 | 170.7 | 169.6 | 168.6 | 167.9 | 167.2 | 166.6 | 165.9 |
| 72.5° | 151.4 | 150.2 | 149.1 | 148.1 | 147.6 | 147.0 | 146.5 | 146.0 |
| 75° | 119.4 | 118.5 | 117.4 | 117.0 | 117.4 | 117.8 | 118.1 | 118.5 |
| 77.5° | 90.9 | 90.4 | 89.9 | 89.4 | 88.9 | 88.5 | 88.0 | 87.5 |
| 80° | 72.1 | 71.6 | 71.2 | 70.7 | 70.4 | 70.1 | 69.7 | 69.4 |
| 82.5° | 53.8 | 53.1 | 52.5 | 52.1 | 52.1 | 52.0 | 51.9 | 51.9 |
| 85° | 28.4 | 27.9 | 27.4 | 27.1 | 26.9 | 26.8 | 26.6 | 26.4 |
| 87.5° | 9.1 | 8.8 | 8.5 | 8.2 | 8.1 | 8.0 | 7.9 | 7.8 |
| 90° | 7.3 | 7.6 | 8.0 | 8.3 | 8.4 | 8.5 | 8.7 | 8.8 |
| 92.5° | 8.0 | 8.2 | 8.3 | 8.5 | 8.6 | 8.7 | 8.7 | 8.8 |
| 95° | 13.4 | 13.8 | 14.1 | 14.3 | 14.2 | 14.1 | 14.1 | 14.0 |
| 97.5° | 17.7 | 17.9 | 18.2 | 18.4 | 18.5 | 18.6 | 18.7 | 18.8 |
| 100° | 19.8 | 20.4 | 20.9 | 21.3 | 21.4 | 21.6 | 21.7 | 21.9 |
| 102.5° | 20.6 | 21.4 | 22.1 | 22.6 | 22.8 | 23.0 | 23.2 | 23.4 |
| 105° | 21.5 | 22.3 | 23.1 | 23.6 | 23.9 | 24.2 | 24.5 | 24.8 |
| 107.5° | 26.3 | 25.4 | 24.6 | 24.3 | 24.6 | 24.9 | 25.2 | 25.5 |
| 110° | 42.6 | 35.3 | 28.1 | 24.6 | 24.9 | 25.2 | 25.5 | 25.8 |



TEST NUMBER: P331291-840

CATALOG NUMBER: S122DIP-S485D330U840-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 91.2 | 64.7 | 38.3 | 25.1 | 25.3 | 25.5 | 25.9 | 26.1 |
| 115° | 134.3 | 100.7 | 67.1 | 47.7 | 42.4 | 37.3 | 32.0 | 26.8 |
| 117.5° | 206.9 | 198.7 | 190.7 | 178.0 | 160.9 | 143.7 | 126.5 | 109.4 |
| 120° | 241.1 | 242.0 | 242.8 | 238.3 | 228.5 | 218.7 | 208.9 | 199.1 |
| 122.5° | 255.8 | 256.3 | 256.8 | 256.1 | 254.3 | 252.4 | 250.4 | 248.5 |
| 125° | 276.9 | 277.4 | 277.9 | 278.3 | 278.5 | 278.7 | 278.9 | 279.1 |
| 127.5° | 296.5 | 297.2 | 297.9 | 298.3 | 298.4 | 298.4 | 298.4 | 298.5 |
| 130° | 308.8 | 309.6 | 310.4 | 310.8 | 310.7 | 310.6 | 310.6 | 310.5 |
| 132.5° | 320.9 | 321.5 | 322.2 | 322.6 | 322.4 | 322.4 | 322.3 | 322.2 |
| 135° | 338.1 | 338.8 | 339.5 | 339.8 | 339.7 | 339.5 | 339.4 | 339.2 |
| 137.5° | 354.1 | 354.8 | 355.5 | 355.7 | 355.5 | 355.3 | 355.0 | 354.8 |
| 140° | 364.4 | 365.1 | 365.7 | 365.9 | 365.5 | 365.2 | 364.8 | 364.4 |
| 142.5° | 374.0 | 374.6 | 375.2 | 375.3 | 374.9 | 374.6 | 374.2 | 373.8 |
| 145° | 387.3 | 387.8 | 388.3 | 388.4 | 388.0 | 387.7 | 387.3 | 386.9 |
| 147.5° | 398.9 | 399.3 | 399.7 | 399.7 | 399.4 | 399.1 | 398.8 | 398.5 |
| 150° | 406.1 | 406.5 | 407.0 | 407.0 | 406.7 | 406.3 | 405.9 | 405.6 |
| 152.5° | 412.6 | 413.0 | 413.4 | 413.4 | 412.9 | 412.5 | 412.0 | 411.5 |
| 155° | 421.4 | 421.8 | 422.3 | 422.2 | 421.6 | 421.1 | 420.5 | 419.9 |
| 157.5° | 428.9 | 429.4 | 429.8 | 429.8 | 429.2 | 428.7 | 428.1 | 427.6 |
| 160° | 433.2 | 433.6 | 434.0 | 434.0 | 433.5 | 433.0 | 432.5 | 432.0 |
| 162.5° | 437.2 | 437.7 | 438.2 | 438.2 | 437.5 | 436.9 | 436.3 | 435.7 |
| 165° | 442.1 | 442.6 | 443.1 | 443.1 | 442.6 | 442.1 | 441.6 | 441.1 |
| 167.5° | 446.3 | 446.8 | 447.3 | 447.2 | 446.6 | 445.9 | 445.2 | 444.5 |
| 170° | 448.4 | 448.9 | 449.4 | 449.3 | 448.7 | 448.0 | 447.4 | 446.7 |
| 172.5° | 449.9 | 450.4 | 450.9 | 450.9 | 450.2 | 449.6 | 448.9 | 448.3 |
| 175° | 451.6 | 452.1 | 452.6 | 452.5 | 451.8 | 451.1 | 450.3 | 449.6 |
| 177.5° | 451.8 | 452.2 | 452.6 | 452.5 | 452.0 | 451.5 | 451.0 | 450.5 |
| 180° | 451.2 | 451.2 | 451.2 | 451.2 | 451.2 | 451.2 | 451.2 | 451.2 |

(END OF REPORT)