

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: P331317-840

Luminaire Tested: **S122DIP-S485D925U840-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331317-840
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: S122DIP-S485D925U840-4F0-1E-UDD-D4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 925 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5637.1 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')
CIE Type: Semi-Indirect

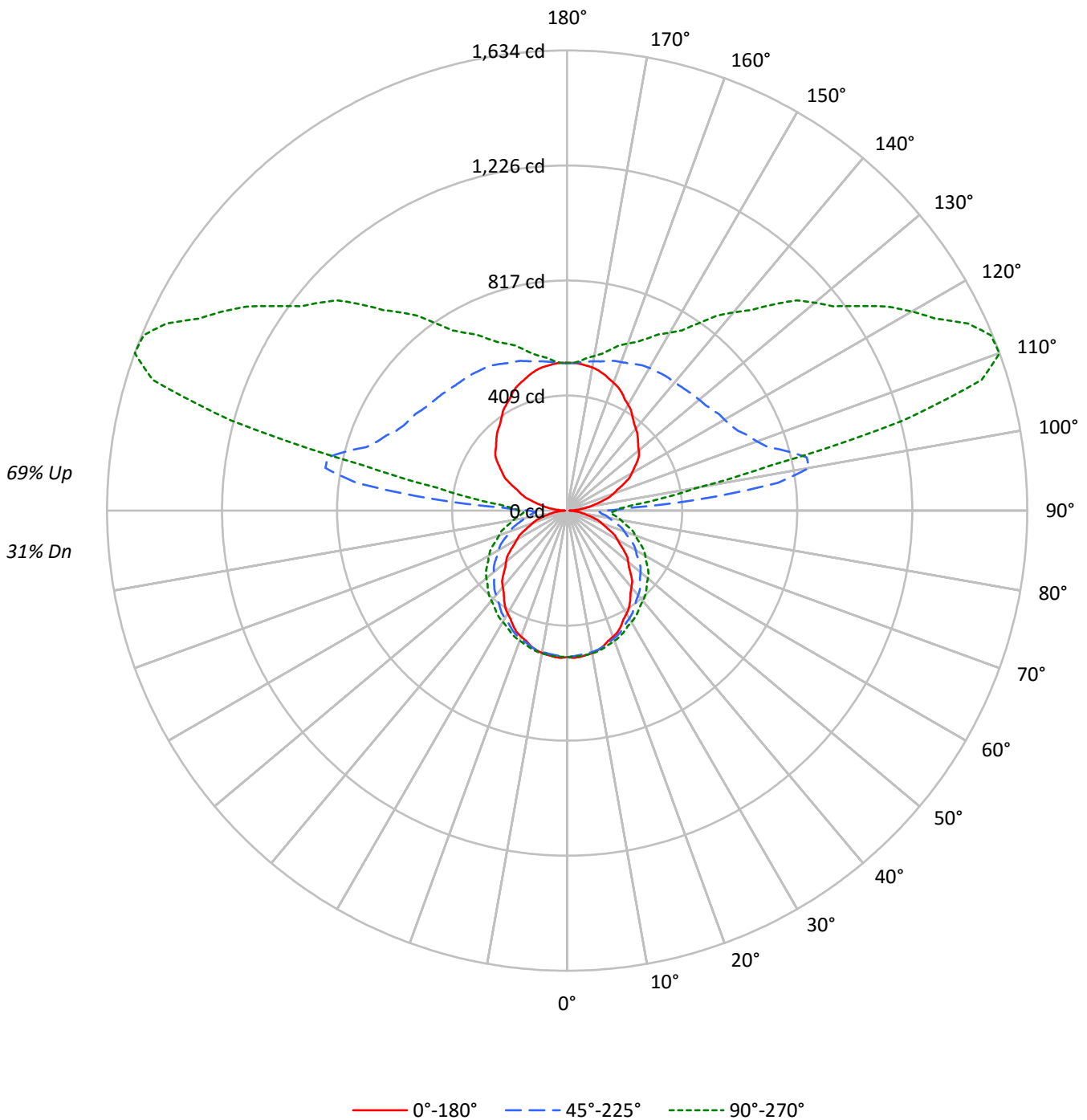
Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331317-840

CATALOG NUMBER: S122DIP-S485D925U840-4F0-1E-UDD-D4

Luminous Intensity Polar Plot





TEST NUMBER: P331317-840

CATALOG NUMBER: S122DIP-S485D925U840-4F0-1E-UDD-D4

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 | 92 | 92 | 92 | 92 | 73 | 73 | 73 | 55 | 55 | 55 | 39 | 39 | 39 | 31 |
| 1 | 93 | 88 | 84 | 80 | 83 | 79 | 76 | 72 | 62 | 60 | 58 | 47 | 45 | 44 | 33 | 32 | 31 | 24 |
| 2 | 84 | 76 | 70 | 65 | 75 | 69 | 63 | 59 | 54 | 50 | 47 | 41 | 38 | 36 | 28 | 27 | 25 | 20 |
| 3 | 76 | 67 | 59 | 53 | 68 | 60 | 54 | 48 | 47 | 43 | 39 | 36 | 33 | 30 | 25 | 23 | 21 | 16 |
| 4 | 70 | 59 | 51 | 45 | 62 | 53 | 46 | 41 | 42 | 37 | 33 | 32 | 28 | 25 | 22 | 20 | 18 | 14 |
| 5 | 64 | 52 | 44 | 38 | 57 | 47 | 40 | 35 | 37 | 32 | 28 | 28 | 25 | 22 | 20 | 17 | 15 | 12 |
| 6 | 58 | 46 | 38 | 33 | 52 | 42 | 35 | 30 | 33 | 28 | 24 | 25 | 22 | 19 | 18 | 15 | 13 | 10 |
| 7 | 54 | 42 | 34 | 28 | 48 | 38 | 31 | 26 | 30 | 25 | 21 | 23 | 19 | 16 | 16 | 14 | 12 | 9 |
| 8 | 50 | 38 | 30 | 25 | 45 | 34 | 27 | 23 | 27 | 22 | 19 | 21 | 17 | 15 | 15 | 12 | 11 | 8 |
| 9 | 46 | 34 | 27 | 22 | 42 | 31 | 25 | 20 | 25 | 20 | 16 | 19 | 16 | 13 | 14 | 11 | 9 | 7 |
| 10 | 43 | 31 | 24 | 19 | 39 | 28 | 22 | 18 | 23 | 18 | 15 | 18 | 14 | 12 | 13 | 10 | 9 | 6 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 8402 | 8402 | 8402 |
| 5° | 8443 | 8088 | 8058 |
| 10° | 8390 | 7850 | 7761 |
| 15° | 8275 | 7596 | 7448 |
| 20° | 8129 | 7324 | 7148 |
| 25° | 7984 | 7062 | 6875 |
| 30° | 7780 | 6794 | 6601 |
| 35° | 7575 | 6536 | 6409 |
| 40° | 7360 | 6315 | 6215 |
| 45° | 7153 | 6118 | 6051 |
| 50° | 6934 | 5937 | 5888 |
| 55° | 6700 | 5744 | 5722 |
| 60° | 6417 | 5546 | 5546 |
| 65° | 6122 | 5313 | 5339 |
| 70° | 5796 | 5061 | 5115 |
| 75° | 5371 | 4816 | 4908 |
| 80° | 4707 | 4564 | 4698 |
| 85° | 4070 | 4346 | 4535 |



TEST NUMBER: P331317-840

CATALOG NUMBER: S122DIP-S485D925U840-4F0-1E-UDD-D4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 49.3 | 0.9 |
| 10°-20° | 141.4 | 2.5 |
| 20°-30° | 214.3 | 3.8 |
| 30°-40° | 261.0 | 4.6 |
| 40°-50° | 280.8 | 5.0 |
| 50°-60° | 272.7 | 4.8 |
| 60°-70° | 238.1 | 4.2 |
| 70°-80° | 183.3 | 3.3 |
| 80°-90° | 127.7 | 2.3 |
| 90°-100° | 294.3 | 5.2 |
| 100°-110° | 773.0 | 13.7 |
| 110°-120° | 796.3 | 14.1 |
| 120°-130° | 644.7 | 11.4 |
| 130°-140° | 509.0 | 9.0 |
| 140°-150° | 379.1 | 6.7 |
| 150°-160° | 265.2 | 4.7 |
| 160°-170° | 156.1 | 2.8 |
| 170°-180° | 50.8 | 0.9 |
| 0°-30° | 405.0 | 7.2 |
| 0°-40° | 666.0 | 11.8 |
| 0°-60° | 1219.4 | 21.6 |
| 0°-90° | 1768.6 | 31.4 |
| 90°-120° | 1863.6 | 33.1 |
| 90°-150° | 3396.4 | 60.3 |
| 90°-180° | 3869.0 | 68.6 |
| 0°-180° | 5637.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|------|------|
| 0° | 520 | 520 | 520 | 520 | 520 | |
| 5° | 522 | 520 | 515 | 519 | 519 | 49 |
| 15° | 498 | 499 | 499 | 506 | 505 | 140 |
| 25° | 452 | 458 | 464 | 473 | 476 | 208 |
| 35° | 390 | 403 | 417 | 433 | 439 | 244 |
| 45° | 320 | 340 | 367 | 389 | 398 | 247 |
| 55° | 245 | 273 | 311 | 338 | 348 | 219 |
| 65° | 167 | 205 | 249 | 279 | 290 | 166 |
| 75° | 93 | 135 | 183 | 214 | 226 | 98 |
| 85° | 27 | 74 | 122 | 153 | 164 | 29 |
| 90° | 9 | 65 | 134 | 161 | 172 | 7 |
| 95° | 41 | 129 | 482 | 264 | 239 | 42 |
| 105° | 127 | 212 | 812 | 1425 | 1236 | 135 |
| 115° | 220 | 286 | 670 | 1357 | 1571 | 218 |
| 125° | 304 | 361 | 626 | 1090 | 1265 | 270 |
| 135° | 356 | 424 | 602 | 901 | 1035 | 275 |
| 145° | 405 | 466 | 591 | 738 | 810 | 254 |
| 155° | 461 | 497 | 574 | 649 | 674 | 212 |
| 165° | 502 | 517 | 549 | 583 | 592 | 141 |
| 175° | 523 | 524 | 528 | 535 | 533 | 50 |
| 180° | 524 | 524 | 524 | 524 | 524 | |



TEST NUMBER: P331317-840

CATALOG NUMBER: S122DIP-S485D925U840-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0° | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 |
| 2.5° | 523.4 | 523.0 | 522.6 | 522.2 | 521.8 | 521.1 | 520.2 | 519.3 | 518.4 | 517.4 | 518.1 |
| 5° | 521.9 | 521.4 | 520.9 | 520.4 | 519.9 | 519.2 | 518.2 | 517.2 | 516.1 | 515.1 | 516.1 |
| 7.5° | 517.3 | 516.8 | 516.5 | 516.2 | 515.9 | 515.3 | 514.5 | 513.8 | 513.0 | 512.2 | 513.4 |
| 10° | 513.6 | 513.3 | 512.9 | 512.6 | 512.3 | 511.9 | 511.4 | 510.9 | 510.4 | 509.9 | 511.2 |
| 12.5° | 507.6 | 507.7 | 507.8 | 507.8 | 507.9 | 507.7 | 507.4 | 507.0 | 506.5 | 506.2 | 507.6 |
| 15° | 497.8 | 498.1 | 498.5 | 498.8 | 499.1 | 499.3 | 499.3 | 499.3 | 499.3 | 499.3 | 500.8 |
| 17.5° | 485.1 | 485.8 | 486.6 | 487.3 | 488.0 | 488.6 | 489.1 | 489.6 | 490.2 | 490.7 | 492.2 |
| 20° | 476.7 | 477.5 | 478.4 | 479.2 | 480.0 | 480.8 | 481.4 | 482.1 | 482.8 | 483.4 | 485.2 |
| 22.5° | 467.6 | 468.6 | 469.6 | 470.5 | 471.5 | 472.4 | 473.4 | 474.3 | 475.2 | 476.3 | 478.1 |
| 25° | 452.5 | 453.7 | 454.8 | 456.1 | 457.2 | 458.6 | 460.1 | 461.6 | 463.1 | 464.5 | 466.6 |
| 27.5° | 434.4 | 436.4 | 438.3 | 440.2 | 442.0 | 443.9 | 445.7 | 447.5 | 449.2 | 451.0 | 453.5 |
| 30° | 422.3 | 424.5 | 426.7 | 428.9 | 431.1 | 433.2 | 435.5 | 437.6 | 439.8 | 441.9 | 444.6 |
| 32.5° | 409.1 | 411.5 | 413.9 | 416.5 | 418.9 | 421.4 | 423.9 | 426.6 | 429.1 | 431.7 | 434.7 |
| 35° | 389.9 | 392.7 | 395.7 | 398.5 | 401.3 | 404.3 | 407.5 | 410.7 | 413.8 | 417.1 | 420.7 |
| 37.5° | 369.1 | 372.4 | 375.7 | 379.0 | 382.2 | 386.0 | 390.1 | 394.2 | 398.3 | 402.4 | 406.6 |
| 40° | 355.3 | 358.9 | 362.6 | 366.3 | 370.0 | 374.1 | 378.6 | 383.1 | 387.7 | 392.2 | 396.6 |
| 42.5° | 341.9 | 345.7 | 349.3 | 353.0 | 356.7 | 361.1 | 366.4 | 371.5 | 376.8 | 381.9 | 386.7 |
| 45° | 319.8 | 324.3 | 328.8 | 333.4 | 337.9 | 343.1 | 348.9 | 354.8 | 360.7 | 366.6 | 371.7 |
| 47.5° | 297.9 | 302.9 | 307.8 | 312.7 | 317.6 | 323.6 | 330.4 | 337.3 | 344.2 | 351.0 | 356.5 |
| 50° | 282.9 | 288.0 | 293.3 | 298.4 | 303.6 | 309.9 | 317.5 | 325.1 | 332.6 | 340.1 | 345.9 |
| 52.5° | 268.3 | 273.8 | 279.2 | 284.8 | 290.2 | 296.9 | 304.9 | 312.8 | 320.7 | 328.7 | 334.5 |
| 55° | 245.1 | 251.2 | 257.2 | 263.2 | 269.2 | 276.6 | 285.4 | 294.1 | 302.8 | 311.4 | 317.5 |
| 57.5° | 222.2 | 229.0 | 235.8 | 242.6 | 249.4 | 257.2 | 266.1 | 275.0 | 283.9 | 292.8 | 299.3 |
| 60° | 205.9 | 213.1 | 220.4 | 227.5 | 234.7 | 243.1 | 252.7 | 262.2 | 271.8 | 281.3 | 287.7 |
| 62.5° | 191.4 | 198.8 | 206.4 | 213.9 | 221.4 | 229.8 | 239.3 | 248.9 | 258.5 | 268.0 | 274.8 |
| 65° | 167.4 | 175.6 | 183.9 | 192.1 | 200.3 | 209.3 | 219.2 | 229.1 | 239.0 | 248.9 | 255.8 |
| 67.5° | 145.4 | 154.0 | 162.6 | 171.2 | 179.8 | 189.0 | 199.2 | 209.3 | 219.4 | 229.5 | 236.5 |
| 70° | 129.8 | 138.5 | 147.1 | 155.8 | 164.6 | 174.1 | 184.5 | 194.9 | 205.3 | 215.7 | 222.9 |
| 72.5° | 115.2 | 124.2 | 133.2 | 142.2 | 151.2 | 161.0 | 171.5 | 182.0 | 192.5 | 203.0 | 210.2 |
| 75° | 92.8 | 102.2 | 111.5 | 120.9 | 130.3 | 140.4 | 151.1 | 161.8 | 172.6 | 183.3 | 190.5 |
| 77.5° | 71.1 | 80.9 | 90.7 | 100.5 | 110.4 | 120.7 | 131.6 | 142.5 | 153.4 | 164.3 | 171.5 |
| 80° | 56.6 | 66.8 | 77.1 | 87.3 | 97.5 | 108.1 | 119.0 | 129.8 | 140.7 | 151.6 | 158.6 |
| 82.5° | 44.5 | 54.6 | 64.6 | 74.7 | 84.8 | 95.4 | 106.4 | 117.4 | 128.5 | 139.6 | 146.5 |
| 85° | 27.2 | 37.6 | 48.0 | 58.4 | 68.7 | 79.3 | 90.0 | 100.7 | 111.5 | 122.2 | 129.3 |
| 87.5° | 14.9 | 25.5 | 36.4 | 46.8 | 57.2 | 68.2 | 79.9 | 92.0 | 103.9 | 114.8 | 121.5 |
| 90° | 8.6 | 21.3 | 35.0 | 46.8 | 58.5 | 71.8 | 87.6 | 105.3 | 122.1 | 133.8 | 139.6 |
| 92.5° | 19.2 | 33.7 | 50.0 | 63.5 | 79.4 | 98.6 | 131.7 | 174.1 | 213.0 | 225.1 | 211.4 |
| 95° | 41.3 | 53.2 | 71.2 | 88.2 | 112.1 | 145.3 | 201.7 | 299.4 | 426.4 | 481.8 | 438.8 |
| 97.5° | 62.7 | 75.1 | 92.9 | 113.6 | 139.2 | 174.9 | 242.8 | 374.6 | 578.6 | 754.7 | 794.0 |
| 100° | 82.9 | 92.1 | 107.3 | 129.7 | 156.0 | 192.1 | 254.9 | 387.2 | 614.3 | 871.6 | 1023.0 |
| 102.5° | 100.8 | 108.7 | 123.4 | 145.2 | 171.9 | 207.4 | 266.0 | 384.4 | 595.0 | 871.4 | 1105.7 |
| 105° | 126.7 | 135.6 | 147.5 | 167.5 | 194.6 | 229.5 | 285.7 | 384.1 | 559.1 | 811.7 | 1085.7 |
| 107.5° | 155.6 | 162.7 | 173.5 | 191.3 | 217.1 | 251.7 | 306.0 | 392.5 | 538.4 | 748.3 | 990.8 |
| 110° | 174.4 | 181.8 | 191.2 | 207.6 | 232.1 | 267.1 | 319.7 | 400.4 | 531.6 | 717.2 | 931.2 |



TEST NUMBER: P331317-840

CATALOG NUMBER: S122DIP-S485D925U840-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 192.1 | 198.9 | 208.6 | 223.7 | 246.9 | 282.3 | 332.8 | 409.1 | 528.7 | 695.3 | 888.3 |
| 115° | 219.7 | 226.6 | 234.5 | 248.4 | 270.4 | 302.4 | 353.3 | 422.2 | 527.6 | 670.1 | 834.5 |
| 117.5° | 247.6 | 252.8 | 260.0 | 272.0 | 292.6 | 324.9 | 371.9 | 436.6 | 529.2 | 654.5 | 797.9 |
| 120° | 265.3 | 270.0 | 276.7 | 286.5 | 307.3 | 339.2 | 385.3 | 446.4 | 530.7 | 645.2 | 777.9 |
| 122.5° | 282.3 | 285.8 | 292.1 | 302.3 | 322.7 | 355.0 | 398.1 | 454.8 | 533.1 | 638.3 | 760.4 |
| 125° | 303.9 | 306.9 | 313.0 | 325.1 | 345.2 | 376.1 | 417.8 | 468.5 | 536.3 | 626.3 | 734.7 |
| 127.5° | 321.6 | 325.5 | 333.8 | 346.9 | 366.1 | 397.2 | 436.8 | 481.8 | 540.6 | 617.4 | 710.7 |
| 130° | 332.0 | 336.0 | 345.9 | 359.8 | 379.8 | 409.7 | 448.5 | 490.3 | 544.2 | 612.3 | 694.9 |
| 132.5° | 341.7 | 346.5 | 357.2 | 371.9 | 392.7 | 422.2 | 458.6 | 498.8 | 547.9 | 607.8 | 681.5 |
| 135° | 355.6 | 359.5 | 371.6 | 386.8 | 409.9 | 439.0 | 472.9 | 509.9 | 551.9 | 602.0 | 662.9 |
| 137.5° | 369.2 | 374.1 | 386.1 | 402.2 | 425.2 | 451.7 | 484.2 | 517.9 | 555.3 | 597.3 | 648.6 |
| 140° | 379.7 | 383.5 | 395.5 | 411.4 | 433.4 | 459.8 | 490.3 | 521.9 | 556.5 | 594.1 | 640.2 |
| 142.5° | 390.2 | 393.2 | 404.3 | 420.3 | 441.5 | 466.1 | 495.5 | 526.0 | 558.0 | 592.9 | 632.8 |
| 145° | 405.2 | 409.2 | 419.3 | 434.4 | 454.5 | 476.8 | 503.9 | 532.2 | 560.4 | 590.6 | 623.9 |
| 147.5° | 422.1 | 425.2 | 434.7 | 448.7 | 465.4 | 485.2 | 510.8 | 535.6 | 561.2 | 587.0 | 615.3 |
| 150° | 433.4 | 436.4 | 444.4 | 457.6 | 472.7 | 490.8 | 514.0 | 537.1 | 560.4 | 584.6 | 608.7 |
| 152.5° | 444.6 | 446.1 | 454.1 | 465.6 | 480.0 | 496.4 | 517.3 | 538.0 | 558.8 | 580.6 | 603.1 |
| 155° | 460.6 | 461.6 | 467.7 | 478.8 | 489.8 | 504.9 | 522.1 | 539.2 | 556.3 | 573.5 | 592.6 |
| 157.5° | 473.9 | 474.9 | 479.8 | 489.4 | 498.3 | 511.0 | 525.5 | 539.2 | 551.7 | 566.2 | 582.8 |
| 160° | 482.8 | 483.8 | 487.8 | 495.8 | 503.9 | 515.0 | 527.1 | 539.2 | 549.3 | 561.4 | 575.5 |
| 162.5° | 491.6 | 491.0 | 495.0 | 501.5 | 508.8 | 517.5 | 528.0 | 538.4 | 546.8 | 557.3 | 569.1 |
| 165° | 501.9 | 500.9 | 502.9 | 509.0 | 514.0 | 520.1 | 529.2 | 536.2 | 542.2 | 549.3 | 558.4 |
| 167.5° | 510.4 | 509.2 | 511.0 | 514.8 | 518.5 | 522.3 | 529.0 | 534.8 | 537.6 | 542.2 | 547.9 |
| 170° | 516.0 | 514.0 | 515.0 | 518.1 | 520.1 | 523.1 | 528.2 | 533.2 | 535.2 | 538.2 | 542.2 |
| 172.5° | 519.3 | 518.1 | 517.5 | 520.5 | 521.7 | 523.9 | 527.4 | 530.8 | 532.0 | 533.4 | 536.6 |
| 175° | 523.1 | 522.1 | 521.1 | 523.1 | 523.1 | 524.1 | 526.1 | 528.2 | 527.1 | 528.2 | 529.2 |
| 177.5° | 524.9 | 523.3 | 522.5 | 524.1 | 524.1 | 524.1 | 524.9 | 526.5 | 524.9 | 524.1 | 524.9 |
| 180° | 524.1 | 524.1 | 524.1 | 524.1 | 524.1 | 524.1 | 524.1 | 524.1 | 524.1 | 524.1 | 524.1 |



TEST NUMBER: P331317-840

CATALOG NUMBER: S122DIP-S485D925U840-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 |
| 2.5° | 518.8 | 519.4 | 520.1 | 520.3 | 520.0 | 519.8 | 519.5 | 519.2 |
| 5° | 517.2 | 518.2 | 519.2 | 519.6 | 519.4 | 519.3 | 519.1 | 518.9 |
| 7.5° | 514.6 | 515.8 | 517.1 | 517.6 | 517.5 | 517.3 | 517.1 | 516.9 |
| 10° | 512.5 | 513.8 | 515.2 | 515.8 | 515.6 | 515.4 | 515.3 | 515.1 |
| 12.5° | 508.9 | 510.3 | 511.6 | 512.2 | 512.0 | 511.8 | 511.7 | 511.5 |
| 15° | 502.3 | 503.8 | 505.3 | 505.9 | 505.8 | 505.6 | 505.4 | 505.3 |
| 17.5° | 493.8 | 495.4 | 497.0 | 497.8 | 497.8 | 497.8 | 497.8 | 497.8 |
| 20° | 487.2 | 489.0 | 490.8 | 491.7 | 491.7 | 491.7 | 491.7 | 491.7 |
| 22.5° | 479.9 | 481.7 | 483.6 | 484.6 | 484.9 | 485.1 | 485.4 | 485.7 |
| 25° | 468.6 | 470.6 | 472.6 | 473.9 | 474.4 | 474.9 | 475.4 | 475.9 |
| 27.5° | 456.2 | 458.7 | 461.2 | 462.6 | 463.0 | 463.4 | 463.7 | 464.1 |
| 30° | 447.4 | 450.0 | 452.7 | 454.2 | 454.7 | 455.2 | 455.8 | 456.3 |
| 32.5° | 437.9 | 440.9 | 444.0 | 446.1 | 447.0 | 447.9 | 448.8 | 449.7 |
| 35° | 424.4 | 428.2 | 431.8 | 434.2 | 435.5 | 436.6 | 437.8 | 439.0 |
| 37.5° | 410.6 | 414.8 | 418.8 | 421.4 | 422.7 | 423.9 | 425.2 | 426.5 |
| 40° | 400.9 | 405.3 | 409.6 | 412.5 | 414.0 | 415.6 | 417.1 | 418.6 |
| 42.5° | 391.4 | 396.2 | 400.9 | 404.1 | 405.6 | 407.1 | 408.6 | 410.1 |
| 45° | 377.0 | 382.1 | 387.3 | 390.7 | 392.4 | 394.2 | 395.8 | 397.5 |
| 47.5° | 361.8 | 367.3 | 372.7 | 376.4 | 378.2 | 380.0 | 381.9 | 383.7 |
| 50° | 351.5 | 357.2 | 362.9 | 366.7 | 368.6 | 370.4 | 372.2 | 374.1 |
| 52.5° | 340.3 | 346.2 | 352.0 | 355.9 | 357.9 | 359.9 | 361.8 | 363.9 |
| 55° | 323.6 | 329.6 | 335.6 | 339.7 | 341.9 | 344.1 | 346.3 | 348.4 |
| 57.5° | 305.8 | 312.3 | 318.8 | 323.2 | 325.4 | 327.6 | 329.8 | 332.0 |
| 60° | 294.1 | 300.4 | 306.8 | 311.1 | 313.5 | 315.9 | 318.2 | 320.5 |
| 62.5° | 281.6 | 288.3 | 295.1 | 299.6 | 301.8 | 304.1 | 306.3 | 308.5 |
| 65° | 262.7 | 269.5 | 276.4 | 280.9 | 283.1 | 285.3 | 287.4 | 289.6 |
| 67.5° | 243.5 | 250.3 | 257.3 | 262.0 | 264.2 | 266.5 | 268.8 | 271.0 |
| 70° | 230.1 | 237.3 | 244.5 | 249.1 | 251.2 | 253.2 | 255.2 | 257.2 |
| 72.5° | 217.2 | 224.3 | 231.4 | 236.1 | 238.4 | 240.9 | 243.3 | 245.7 |
| 75° | 197.7 | 204.9 | 212.1 | 216.8 | 218.9 | 221.2 | 223.3 | 225.5 |
| 77.5° | 178.6 | 185.8 | 193.0 | 197.7 | 200.1 | 202.4 | 204.8 | 207.1 |
| 80° | 165.7 | 172.7 | 179.8 | 184.4 | 186.8 | 189.1 | 191.5 | 193.8 |
| 82.5° | 153.6 | 160.7 | 167.6 | 172.3 | 174.5 | 176.7 | 178.9 | 181.2 |
| 85° | 136.2 | 143.3 | 150.4 | 155.0 | 157.3 | 159.8 | 162.1 | 164.4 |
| 87.5° | 128.2 | 134.5 | 141.8 | 146.5 | 148.7 | 150.8 | 152.9 | 155.1 |
| 90° | 145.2 | 149.9 | 158.6 | 164.0 | 166.0 | 168.0 | 170.1 | 172.1 |
| 92.5° | 195.1 | 189.2 | 187.3 | 185.4 | 186.6 | 185.3 | 188.1 | 188.5 |
| 95° | 363.6 | 308.4 | 272.5 | 254.5 | 243.4 | 237.3 | 236.3 | 239.3 |
| 97.5° | 708.8 | 603.0 | 500.2 | 431.4 | 385.3 | 362.4 | 349.7 | 343.3 |
| 100° | 1008.0 | 889.2 | 757.4 | 639.4 | 557.6 | 516.1 | 488.8 | 472.4 |
| 102.5° | 1202.6 | 1180.5 | 1085.6 | 960.4 | 871.3 | 799.1 | 764.5 | 741.7 |
| 105° | 1301.1 | 1420.9 | 1439.9 | 1410.5 | 1349.8 | 1289.2 | 1247.7 | 1235.5 |
| 107.5° | 1218.7 | 1395.8 | 1506.3 | 1558.8 | 1568.5 | 1567.0 | 1560.1 | 1543.3 |
| 110° | 1149.2 | 1335.0 | 1469.4 | 1555.6 | 1600.8 | 1621.8 | 1632.7 | 1633.6 |



TEST NUMBER: P331317-840

CATALOG NUMBER: S122DIP-S485D925U840-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 1085.4 | 1263.8 | 1407.1 | 1505.5 | 1567.6 | 1601.4 | 1620.4 | 1627.7 |
| 115° | 1005.7 | 1166.0 | 1303.0 | 1410.3 | 1483.7 | 1531.9 | 1559.9 | 1570.8 |
| 117.5° | 944.2 | 1085.4 | 1210.1 | 1310.8 | 1385.4 | 1436.1 | 1465.5 | 1474.9 |
| 120° | 912.6 | 1042.3 | 1153.8 | 1248.8 | 1321.2 | 1370.4 | 1401.5 | 1413.4 |
| 122.5° | 887.0 | 1006.0 | 1111.8 | 1197.7 | 1262.5 | 1310.7 | 1338.3 | 1348.3 |
| 125° | 849.1 | 957.4 | 1050.6 | 1129.2 | 1189.2 | 1229.0 | 1255.7 | 1265.3 |
| 127.5° | 811.6 | 909.7 | 997.5 | 1070.2 | 1122.6 | 1159.9 | 1183.2 | 1191.1 |
| 130° | 787.6 | 878.3 | 961.9 | 1031.2 | 1081.9 | 1117.5 | 1138.9 | 1148.4 |
| 132.5° | 764.4 | 848.5 | 925.5 | 990.7 | 1040.6 | 1076.2 | 1096.0 | 1104.7 |
| 135° | 732.0 | 801.9 | 872.0 | 930.9 | 975.5 | 1010.2 | 1029.7 | 1035.0 |
| 137.5° | 705.1 | 763.9 | 819.7 | 871.0 | 911.7 | 941.4 | 958.5 | 965.7 |
| 140° | 688.2 | 739.2 | 788.3 | 834.5 | 867.8 | 894.9 | 911.1 | 918.2 |
| 142.5° | 674.6 | 717.9 | 759.9 | 798.5 | 830.1 | 854.7 | 869.1 | 871.2 |
| 145° | 656.1 | 690.3 | 722.7 | 752.8 | 777.8 | 795.8 | 806.7 | 810.5 |
| 147.5° | 642.1 | 668.4 | 693.0 | 714.6 | 735.0 | 749.0 | 756.3 | 758.5 |
| 150° | 633.0 | 655.1 | 676.3 | 694.4 | 709.5 | 721.6 | 727.7 | 728.7 |
| 152.5° | 624.1 | 644.6 | 662.6 | 678.3 | 690.1 | 700.6 | 705.1 | 705.3 |
| 155° | 611.8 | 627.9 | 643.0 | 654.1 | 665.2 | 672.3 | 676.3 | 674.3 |
| 157.5° | 597.4 | 611.0 | 623.7 | 632.4 | 640.2 | 646.0 | 647.8 | 647.8 |
| 160° | 588.5 | 599.7 | 610.8 | 617.8 | 624.9 | 630.0 | 631.0 | 631.0 |
| 162.5° | 579.8 | 589.2 | 598.6 | 604.1 | 611.2 | 614.6 | 615.6 | 614.8 |
| 165° | 566.4 | 573.5 | 580.6 | 584.6 | 588.5 | 592.6 | 592.6 | 591.6 |
| 167.5° | 553.7 | 559.2 | 564.0 | 567.6 | 569.5 | 571.7 | 571.5 | 570.3 |
| 170° | 547.2 | 550.3 | 554.3 | 556.3 | 557.3 | 560.4 | 559.4 | 557.3 |
| 172.5° | 540.0 | 542.2 | 545.4 | 546.6 | 547.6 | 549.1 | 548.1 | 546.8 |
| 175° | 532.2 | 533.2 | 534.2 | 535.2 | 535.2 | 536.2 | 535.2 | 533.2 |
| 177.5° | 526.5 | 526.5 | 527.4 | 527.4 | 527.4 | 527.4 | 526.5 | 524.9 |
| 180° | 524.1 | 524.1 | 524.1 | 524.1 | 524.1 | 524.1 | 524.1 | 524.1 |

(END OF REPORT)