

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: P331297-840

Luminaire Tested: **S122DIP-S485D530U840-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331297-840
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-S485D530U840-4F0-1E-UDD-D
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 530 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4121.6 lumens
Efficiency: N/A
Efficacy: 125.7 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: General Diffuse

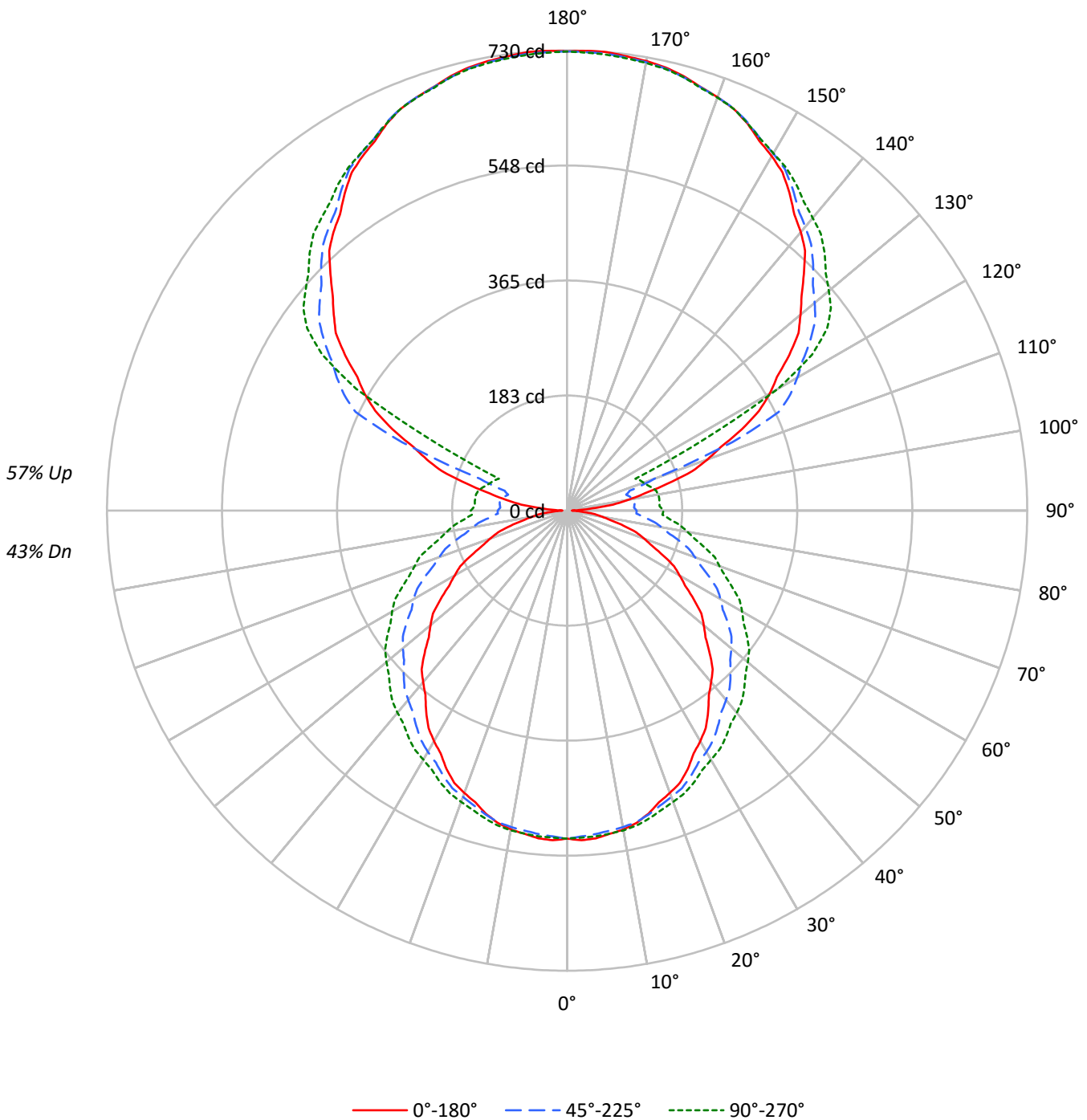
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331297-840

CATALOG NUMBER: S122DIP-S485D530U840-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P331297-840

CATALOG NUMBER: S122DIP-S485D530U840-4F0-1E-UDD-D

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 | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 79 | 79 | 79 | 64 | 64 | 64 | 50 | 50 | 50 | 43 |
| 1 | 95 | 90 | 86 | 82 | 86 | 82 | 79 | 75 | 68 | 65 | 62 | 54 | 52 | 50 | 42 | 40 | 39 | 33 |
| 2 | 86 | 78 | 71 | 66 | 78 | 71 | 65 | 61 | 58 | 54 | 51 | 47 | 44 | 41 | 36 | 34 | 32 | 27 |
| 3 | 78 | 68 | 60 | 54 | 71 | 62 | 55 | 50 | 51 | 46 | 42 | 41 | 37 | 34 | 31 | 29 | 27 | 22 |
| 4 | 71 | 60 | 52 | 45 | 64 | 55 | 48 | 42 | 45 | 40 | 35 | 36 | 32 | 29 | 28 | 25 | 23 | 19 |
| 5 | 65 | 53 | 45 | 39 | 59 | 49 | 41 | 36 | 40 | 35 | 30 | 32 | 28 | 25 | 25 | 22 | 20 | 16 |
| 6 | 60 | 47 | 39 | 33 | 54 | 44 | 36 | 31 | 36 | 30 | 26 | 29 | 25 | 22 | 23 | 19 | 17 | 14 |
| 7 | 55 | 43 | 35 | 29 | 50 | 39 | 32 | 27 | 33 | 27 | 23 | 26 | 22 | 19 | 20 | 17 | 15 | 12 |
| 8 | 51 | 39 | 31 | 25 | 46 | 36 | 28 | 24 | 30 | 24 | 20 | 24 | 20 | 17 | 19 | 16 | 13 | 11 |
| 9 | 48 | 35 | 28 | 22 | 43 | 32 | 26 | 21 | 27 | 22 | 18 | 22 | 18 | 15 | 17 | 14 | 12 | 10 |
| 10 | 44 | 32 | 25 | 20 | 40 | 30 | 23 | 19 | 25 | 20 | 16 | 20 | 16 | 13 | 16 | 13 | 11 | 9 |

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: P331297-840

CATALOG NUMBER: S122DIP-S485D530U840-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 49.3 | 1.2 |
| 10°-20° | 141.4 | 3.4 |
| 20°-30° | 214.3 | 5.2 |
| 30°-40° | 261.0 | 6.3 |
| 40°-50° | 280.8 | 6.8 |
| 50°-60° | 272.7 | 6.6 |
| 60°-70° | 238.1 | 5.8 |
| 70°-80° | 183.3 | 4.4 |
| 80°-90° | 124.8 | 3.0 |
| 90°-100° | 109.0 | 2.6 |
| 100°-110° | 151.0 | 3.7 |
| 110°-120° | 279.0 | 6.8 |
| 120°-130° | 415.9 | 10.1 |
| 130°-140° | 427.7 | 10.4 |
| 140°-150° | 390.3 | 9.5 |
| 150°-160° | 312.4 | 7.6 |
| 160°-170° | 201.3 | 4.9 |
| 170°-180° | 69.3 | 1.7 |
| 0°-30° | 405.0 | 9.8 |
| 0°-40° | 666.0 | 16.2 |
| 0°-60° | 1219.4 | 29.6 |
| 0°-90° | 1765.6 | 42.8 |
| 90°-120° | 539.0 | 13.1 |
| 90°-150° | 1772.9 | 43.0 |
| 90°-180° | 2356.0 | 57.2 |
| 0°-180° | 4121.6 | 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° | 8 | 58 | 110 | 142 | 153 | 7 |
| 95° | 40 | 60 | 107 | 137 | 147 | 47 |
| 105° | 164 | 194 | 97 | 128 | 140 | 175 |
| 115° | 306 | 325 | 370 | 160 | 119 | 301 |
| 125° | 430 | 438 | 471 | 494 | 503 | 383 |
| 135° | 531 | 540 | 552 | 572 | 578 | 410 |
| 145° | 615 | 615 | 624 | 631 | 633 | 385 |
| 155° | 677 | 673 | 679 | 682 | 678 | 312 |
| 165° | 714 | 711 | 712 | 715 | 712 | 202 |
| 175° | 730 | 726 | 727 | 730 | 726 | 69 |
| 180° | 728 | 728 | 728 | 728 | 728 | |



TEST NUMBER: P331297-840

CATALOG NUMBER: S122DIP-S485D530U840-4F0-1E-UDD-D

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° | 14.8 | 25.1 | 35.3 | 45.6 | 55.8 | 66.4 | 77.4 | 88.3 | 99.2 | 110.1 | 117.0 |
| 90° | 8.1 | 19.1 | 30.1 | 41.1 | 52.1 | 63.4 | 75.1 | 86.7 | 98.5 | 110.1 | 117.3 |
| 92.5° | 17.6 | 26.6 | 35.4 | 44.4 | 53.3 | 63.2 | 74.0 | 84.7 | 95.5 | 106.3 | 113.2 |
| 95° | 40.3 | 44.3 | 48.3 | 52.3 | 56.4 | 63.8 | 74.6 | 85.5 | 96.4 | 107.2 | 114.2 |
| 97.5° | 73.2 | 69.4 | 65.5 | 61.6 | 57.8 | 61.6 | 73.1 | 84.6 | 96.2 | 107.8 | 114.4 |
| 100° | 98.6 | 88.8 | 78.9 | 69.1 | 59.2 | 60.0 | 71.3 | 82.7 | 94.1 | 105.4 | 112.6 |
| 102.5° | 125.8 | 128.1 | 130.3 | 132.6 | 134.8 | 132.2 | 124.7 | 117.1 | 109.6 | 102.1 | 109.4 |
| 105° | 164.0 | 172.4 | 180.8 | 189.1 | 197.5 | 190.1 | 166.8 | 143.5 | 120.3 | 97.0 | 104.1 |
| 107.5° | 208.4 | 215.1 | 221.9 | 228.6 | 235.3 | 223.7 | 193.7 | 163.7 | 133.7 | 103.7 | 108.0 |
| 110° | 236.5 | 242.3 | 248.1 | 253.9 | 259.7 | 249.8 | 224.2 | 198.5 | 172.9 | 147.2 | 141.0 |



TEST NUMBER: P331297-840

CATALOG NUMBER: S122DIP-S485D530U840-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 263.5 | 268.4 | 273.5 | 278.4 | 283.5 | 285.7 | 285.1 | 284.6 | 284.0 | 283.5 | 246.1 |
| 115° | 306.1 | 309.9 | 313.8 | 317.6 | 321.4 | 328.5 | 339.0 | 349.5 | 359.9 | 370.4 | 321.2 |
| 117.5° | 343.4 | 346.8 | 350.2 | 353.7 | 357.1 | 363.2 | 372.2 | 381.2 | 390.2 | 399.2 | 391.1 |
| 120° | 371.1 | 373.7 | 376.1 | 378.5 | 380.9 | 386.5 | 395.4 | 404.1 | 412.9 | 421.7 | 427.9 |
| 122.5° | 394.8 | 396.9 | 399.0 | 401.1 | 403.2 | 408.6 | 417.2 | 425.9 | 434.4 | 443.0 | 448.4 |
| 125° | 430.0 | 431.5 | 433.0 | 434.5 | 436.1 | 440.6 | 448.2 | 455.8 | 463.4 | 471.0 | 476.4 |
| 127.5° | 462.5 | 464.0 | 465.5 | 467.1 | 468.6 | 472.4 | 478.4 | 484.3 | 490.3 | 496.3 | 501.7 |
| 130° | 483.2 | 484.9 | 486.7 | 488.4 | 490.0 | 493.3 | 498.1 | 502.9 | 507.7 | 512.5 | 517.9 |
| 132.5° | 504.3 | 505.7 | 507.2 | 508.6 | 510.0 | 512.7 | 516.7 | 520.7 | 524.7 | 528.7 | 533.7 |
| 135° | 530.9 | 532.8 | 534.7 | 536.5 | 538.5 | 540.7 | 543.5 | 546.2 | 549.0 | 551.7 | 556.3 |
| 137.5° | 558.7 | 560.0 | 561.2 | 562.5 | 563.8 | 565.3 | 567.3 | 569.3 | 571.2 | 573.1 | 577.3 |
| 140° | 576.8 | 577.5 | 578.3 | 579.1 | 579.9 | 581.1 | 582.7 | 584.3 | 585.9 | 587.5 | 591.3 |
| 142.5° | 592.0 | 592.6 | 593.3 | 594.0 | 594.7 | 595.8 | 597.3 | 598.8 | 600.4 | 602.0 | 605.0 |
| 145° | 615.0 | 614.9 | 614.8 | 614.7 | 614.6 | 615.5 | 617.5 | 619.5 | 621.5 | 623.5 | 625.3 |
| 147.5° | 635.8 | 635.3 | 634.9 | 634.5 | 634.0 | 634.8 | 636.7 | 638.7 | 640.7 | 642.7 | 643.4 |
| 150° | 649.2 | 648.4 | 647.6 | 646.8 | 646.0 | 646.5 | 648.4 | 650.3 | 652.2 | 654.0 | 654.7 |
| 152.5° | 660.7 | 659.7 | 658.8 | 657.9 | 657.0 | 657.4 | 659.2 | 661.1 | 662.8 | 664.6 | 665.3 |
| 155° | 677.2 | 676.2 | 675.1 | 674.1 | 673.0 | 673.2 | 674.6 | 676.0 | 677.4 | 678.8 | 679.5 |
| 157.5° | 690.1 | 689.3 | 688.4 | 687.5 | 686.6 | 686.7 | 687.6 | 688.6 | 689.6 | 690.6 | 691.4 |
| 160° | 697.8 | 697.1 | 696.4 | 695.7 | 695.0 | 695.0 | 695.7 | 696.4 | 697.1 | 697.8 | 698.5 |
| 162.5° | 704.5 | 703.8 | 703.1 | 702.4 | 701.8 | 701.7 | 702.3 | 702.9 | 703.5 | 704.1 | 704.9 |
| 165° | 713.6 | 712.9 | 712.2 | 711.4 | 710.7 | 710.6 | 710.9 | 711.2 | 711.7 | 712.0 | 712.9 |
| 167.5° | 720.3 | 719.6 | 718.9 | 718.2 | 717.5 | 717.3 | 717.6 | 718.0 | 718.3 | 718.6 | 719.4 |
| 170° | 724.1 | 723.5 | 722.8 | 722.1 | 721.3 | 721.0 | 721.3 | 721.5 | 721.8 | 722.1 | 722.9 |
| 172.5° | 726.7 | 726.0 | 725.3 | 724.6 | 723.9 | 723.6 | 723.9 | 724.1 | 724.3 | 724.6 | 725.4 |
| 175° | 729.9 | 729.1 | 728.3 | 727.5 | 726.6 | 726.4 | 726.6 | 726.8 | 727.0 | 727.3 | 728.1 |
| 177.5° | 730.4 | 729.8 | 729.1 | 728.5 | 727.8 | 727.5 | 727.6 | 727.7 | 727.8 | 727.9 | 728.6 |
| 180° | 728.3 | 728.3 | 728.3 | 728.3 | 728.3 | 728.3 | 728.3 | 728.3 | 728.3 | 728.3 | 728.3 |



TEST NUMBER: P331297-840

CATALOG NUMBER: S122DIP-S485D530U840-4F0-1E-UDD-D

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° | 124.0 | 131.0 | 137.9 | 142.5 | 144.7 | 146.9 | 149.1 | 151.3 |
| 90° | 124.7 | 132.0 | 139.3 | 144.0 | 146.2 | 148.6 | 150.8 | 153.0 |
| 92.5° | 120.1 | 126.9 | 133.8 | 138.4 | 140.5 | 142.7 | 144.8 | 146.9 |
| 95° | 121.2 | 128.2 | 135.1 | 139.6 | 141.4 | 143.3 | 145.2 | 147.1 |
| 97.5° | 121.1 | 127.7 | 134.4 | 138.9 | 141.0 | 143.1 | 145.2 | 147.3 |
| 100° | 119.8 | 126.8 | 134.0 | 138.7 | 140.7 | 142.8 | 144.8 | 146.9 |
| 102.5° | 116.6 | 123.9 | 131.2 | 135.9 | 138.1 | 140.3 | 142.5 | 144.6 |
| 105° | 111.3 | 118.5 | 125.6 | 130.4 | 132.7 | 135.0 | 137.3 | 139.6 |
| 107.5° | 112.3 | 116.6 | 121.0 | 124.3 | 126.6 | 128.9 | 131.2 | 133.5 |
| 110° | 134.6 | 128.3 | 121.9 | 119.9 | 122.2 | 124.5 | 126.8 | 129.2 |



TEST NUMBER: P331297-840

CATALOG NUMBER: S122DIP-S485D530U840-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 208.7 | 171.4 | 134.0 | 116.4 | 118.7 | 120.9 | 123.1 | 125.3 |
| 115° | 272.1 | 222.9 | 173.6 | 145.7 | 139.2 | 132.6 | 125.9 | 119.4 |
| 117.5° | 382.9 | 374.8 | 366.6 | 349.5 | 323.6 | 297.5 | 271.6 | 245.5 |
| 120° | 433.9 | 440.0 | 446.2 | 442.2 | 428.3 | 414.2 | 400.3 | 386.4 |
| 122.5° | 453.8 | 459.2 | 464.6 | 466.6 | 465.0 | 463.6 | 462.1 | 460.6 |
| 125° | 481.7 | 487.1 | 492.3 | 495.9 | 497.9 | 499.7 | 501.5 | 503.4 |
| 127.5° | 507.1 | 512.4 | 517.8 | 521.2 | 522.7 | 524.2 | 525.8 | 527.4 |
| 130° | 523.1 | 528.5 | 533.7 | 537.0 | 538.3 | 539.5 | 540.7 | 541.9 |
| 132.5° | 538.7 | 543.7 | 548.7 | 551.8 | 553.0 | 554.2 | 555.4 | 556.6 |
| 135° | 561.1 | 565.7 | 570.4 | 573.3 | 574.4 | 575.5 | 576.6 | 577.7 |
| 137.5° | 581.6 | 585.8 | 590.1 | 592.5 | 593.3 | 594.0 | 594.7 | 595.5 |
| 140° | 595.0 | 598.7 | 602.5 | 604.6 | 605.0 | 605.4 | 605.8 | 606.2 |
| 142.5° | 608.1 | 611.3 | 614.4 | 616.0 | 616.3 | 616.6 | 616.9 | 617.2 |
| 145° | 627.1 | 628.9 | 630.8 | 631.8 | 632.1 | 632.3 | 632.6 | 632.8 |
| 147.5° | 644.1 | 644.9 | 645.6 | 645.9 | 645.8 | 645.8 | 645.7 | 645.6 |
| 150° | 655.4 | 656.1 | 656.8 | 656.9 | 656.3 | 655.7 | 655.1 | 654.6 |
| 152.5° | 666.0 | 666.7 | 667.4 | 667.3 | 666.6 | 665.8 | 665.0 | 664.3 |
| 155° | 680.2 | 681.0 | 681.7 | 681.5 | 680.5 | 679.6 | 678.7 | 677.7 |
| 157.5° | 692.2 | 693.0 | 693.8 | 693.8 | 692.8 | 691.9 | 690.9 | 690.0 |
| 160° | 699.1 | 699.8 | 700.5 | 700.5 | 699.7 | 698.9 | 698.0 | 697.2 |
| 162.5° | 705.7 | 706.5 | 707.3 | 707.2 | 706.2 | 705.2 | 704.2 | 703.2 |
| 165° | 713.7 | 714.5 | 715.3 | 715.3 | 714.5 | 713.7 | 712.9 | 712.0 |
| 167.5° | 720.2 | 721.1 | 722.0 | 721.9 | 720.7 | 719.7 | 718.6 | 717.6 |
| 170° | 723.7 | 724.5 | 725.3 | 725.2 | 724.1 | 723.1 | 722.1 | 720.9 |
| 172.5° | 726.2 | 727.0 | 727.8 | 727.7 | 726.7 | 725.6 | 724.6 | 723.5 |
| 175° | 728.9 | 729.7 | 730.5 | 730.4 | 729.2 | 728.0 | 726.9 | 725.7 |
| 177.5° | 729.2 | 729.9 | 730.5 | 730.4 | 729.6 | 728.7 | 727.9 | 727.1 |
| 180° | 728.3 | 728.3 | 728.3 | 728.3 | 728.3 | 728.3 | 728.3 | 728.3 |

(END OF REPORT)