

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: P331342

Luminaire Tested: **S122DIP-S675D530U835-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331342
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-S675D530U835-4F0-1E-UDD-D
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 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: 4802.7 lumens
Efficiency: N/A
Efficacy: 119.2 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

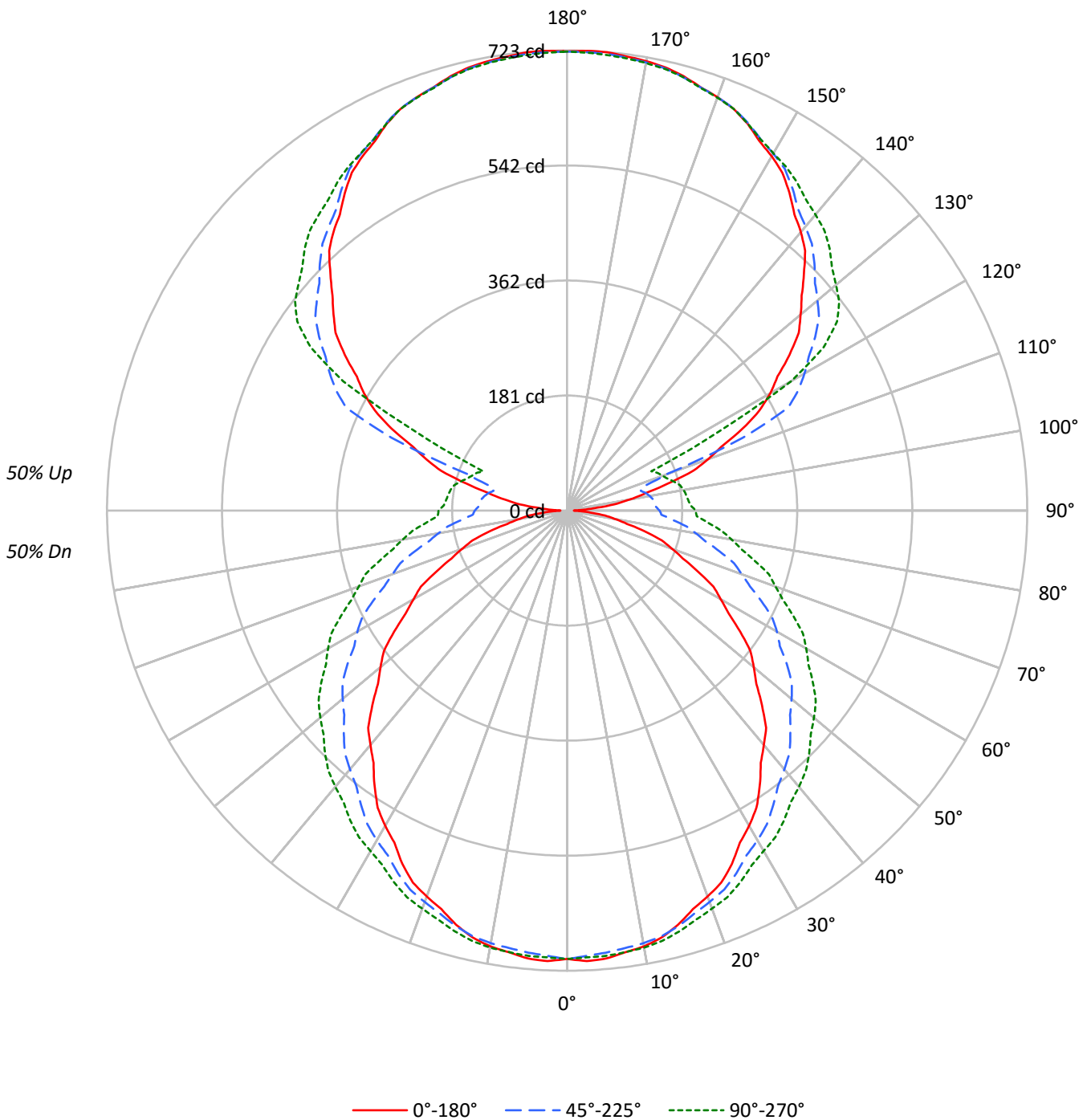
Input Watts (W): 40.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331342

CATALOG NUMBER: S122DIP-S675D530U835-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P331342

CATALOG NUMBER: S122DIP-S675D530U835-4F0-1E-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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 50 | | | | |
| 1 | 96 | 91 | 87 | 83 | 88 | 84 | 80 | 77 | 71 | 68 | 65 | 58 | 56 | 54 | 47 | 46 | 44 | 39 | | | | |
| 2 | 87 | 79 | 72 | 66 | 80 | 73 | 67 | 62 | 61 | 57 | 53 | 50 | 47 | 44 | 41 | 38 | 36 | 31 | | | | |
| 3 | 79 | 69 | 61 | 55 | 72 | 63 | 57 | 51 | 53 | 48 | 44 | 44 | 40 | 37 | 35 | 33 | 30 | 26 | | | | |
| 4 | 72 | 61 | 52 | 46 | 66 | 56 | 48 | 43 | 47 | 41 | 37 | 39 | 35 | 31 | 31 | 28 | 25 | 22 | | | | |
| 5 | 66 | 54 | 45 | 39 | 60 | 50 | 42 | 36 | 42 | 36 | 31 | 35 | 30 | 27 | 28 | 25 | 22 | 19 | | | | |
| 6 | 61 | 48 | 40 | 34 | 56 | 44 | 37 | 31 | 38 | 32 | 27 | 31 | 27 | 23 | 25 | 22 | 19 | 16 | | | | |
| 7 | 56 | 43 | 35 | 29 | 51 | 40 | 33 | 27 | 34 | 28 | 24 | 28 | 24 | 20 | 23 | 20 | 17 | 14 | | | | |
| 8 | 52 | 39 | 31 | 26 | 48 | 36 | 29 | 24 | 31 | 25 | 21 | 26 | 21 | 18 | 21 | 18 | 15 | 13 | | | | |
| 9 | 48 | 36 | 28 | 23 | 44 | 33 | 26 | 21 | 28 | 23 | 19 | 24 | 19 | 16 | 20 | 16 | 14 | 11 | | | | |
| 10 | 45 | 33 | 25 | 20 | 41 | 30 | 24 | 19 | 26 | 21 | 17 | 22 | 18 | 15 | 18 | 15 | 12 | 10 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 11373 | 11373 | 11373 |
| 5° | 11428 | 10947 | 10905 |
| 10° | 11356 | 10624 | 10504 |
| 15° | 11200 | 10282 | 10083 |
| 20° | 11002 | 9915 | 9676 |
| 25° | 10807 | 9560 | 9307 |
| 30° | 10532 | 9197 | 8935 |
| 35° | 10254 | 8846 | 8673 |
| 40° | 9960 | 8547 | 8413 |
| 45° | 9681 | 8279 | 8190 |
| 50° | 9382 | 8037 | 7969 |
| 55° | 9070 | 7777 | 7745 |
| 60° | 8686 | 7508 | 7509 |
| 65° | 8287 | 7191 | 7227 |
| 70° | 7841 | 6852 | 6923 |
| 75° | 7270 | 6518 | 6643 |
| 80° | 6370 | 6177 | 6361 |
| 85° | 5506 | 5882 | 6138 |



TEST NUMBER: P331342

CATALOG NUMBER: S122DIP-S675D530U835-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 66.7 | 1.4 |
| 10°-20° | 191.4 | 4.0 |
| 20°-30° | 290.0 | 6.0 |
| 30°-40° | 353.3 | 7.4 |
| 40°-50° | 380.0 | 7.9 |
| 50°-60° | 369.1 | 7.7 |
| 60°-70° | 322.3 | 6.7 |
| 70°-80° | 248.1 | 5.2 |
| 80°-90° | 168.3 | 3.5 |
| 90°-100° | 138.8 | 2.9 |
| 100°-110° | 172.0 | 3.6 |
| 110°-120° | 291.2 | 6.1 |
| 120°-130° | 420.2 | 8.7 |
| 130°-140° | 427.0 | 8.9 |
| 140°-150° | 387.1 | 8.1 |
| 150°-160° | 309.4 | 6.4 |
| 160°-170° | 199.4 | 4.2 |
| 170°-180° | 68.6 | 1.4 |
| 0°-30° | 548.2 | 11.4 |
| 0°-40° | 901.4 | 18.8 |
| 0°-60° | 1650.6 | 34.4 |
| 0°-90° | 2389.2 | 49.7 |
| 90°-120° | 601.9 | 12.5 |
| 90°-150° | 1836.1 | 38.2 |
| 90°-180° | 2413.0 | 50.2 |
| 0°-180° | 4802.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 704 | 704 | 704 | 704 | 704 | |
| 5° | 706 | 703 | 697 | 703 | 702 | 67 |
| 15° | 674 | 676 | 676 | 684 | 684 | 190 |
| 25° | 612 | 620 | 629 | 641 | 644 | 281 |
| 35° | 528 | 545 | 564 | 586 | 594 | 330 |
| 45° | 433 | 461 | 496 | 527 | 538 | 334 |
| 55° | 332 | 369 | 422 | 457 | 472 | 297 |
| 65° | 227 | 277 | 337 | 377 | 392 | 225 |
| 75° | 126 | 183 | 248 | 290 | 305 | 133 |
| 85° | 37 | 100 | 165 | 207 | 222 | 40 |
| 90° | 11 | 76 | 145 | 187 | 202 | 8 |
| 95° | 42 | 75 | 138 | 178 | 191 | 48 |
| 105° | 164 | 202 | 120 | 160 | 174 | 175 |
| 115° | 304 | 326 | 383 | 182 | 146 | 299 |
| 125° | 426 | 435 | 476 | 506 | 518 | 380 |
| 135° | 526 | 535 | 549 | 575 | 583 | 406 |
| 145° | 609 | 609 | 617 | 627 | 630 | 381 |
| 155° | 671 | 666 | 672 | 675 | 671 | 309 |
| 165° | 707 | 704 | 705 | 708 | 705 | 200 |
| 175° | 723 | 719 | 720 | 723 | 719 | 69 |
| 180° | 721 | 721 | 721 | 721 | 721 | |



TEST NUMBER: P331342

CATALOG NUMBER: S122DIP-S675D530U835-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 |
| 2.5° | 708.5 | 707.9 | 707.4 | 706.8 | 706.3 | 705.4 | 704.1 | 702.8 | 701.6 | 700.3 | 701.2 |
| 5° | 706.4 | 705.7 | 705.1 | 704.4 | 703.7 | 702.7 | 701.3 | 700.0 | 698.6 | 697.2 | 698.6 |
| 7.5° | 700.1 | 699.6 | 699.2 | 698.7 | 698.3 | 697.5 | 696.5 | 695.4 | 694.4 | 693.4 | 695.0 |
| 10° | 695.2 | 694.7 | 694.3 | 693.8 | 693.4 | 692.8 | 692.1 | 691.5 | 690.8 | 690.1 | 691.9 |
| 12.5° | 687.0 | 687.1 | 687.2 | 687.3 | 687.4 | 687.2 | 686.7 | 686.2 | 685.7 | 685.2 | 687.0 |
| 15° | 673.8 | 674.2 | 674.7 | 675.1 | 675.6 | 675.8 | 675.8 | 675.8 | 675.8 | 675.8 | 677.8 |
| 17.5° | 656.6 | 657.6 | 658.5 | 659.5 | 660.4 | 661.3 | 662.0 | 662.7 | 663.4 | 664.2 | 666.3 |
| 20° | 645.2 | 646.3 | 647.4 | 648.6 | 649.7 | 650.7 | 651.6 | 652.6 | 653.5 | 654.4 | 656.9 |
| 22.5° | 632.9 | 634.2 | 635.6 | 636.9 | 638.2 | 639.5 | 640.8 | 642.0 | 643.3 | 644.6 | 647.1 |
| 25° | 612.5 | 614.1 | 615.7 | 617.3 | 618.9 | 620.7 | 622.7 | 624.8 | 626.8 | 628.8 | 631.6 |
| 27.5° | 588.0 | 590.6 | 593.2 | 595.8 | 598.4 | 600.9 | 603.3 | 605.7 | 608.1 | 610.5 | 613.9 |
| 30° | 571.7 | 574.6 | 577.6 | 580.5 | 583.5 | 586.4 | 589.4 | 592.3 | 595.3 | 598.2 | 601.8 |
| 32.5° | 553.7 | 557.0 | 560.3 | 563.6 | 567.0 | 570.4 | 573.9 | 577.3 | 580.8 | 584.3 | 588.5 |
| 35° | 527.8 | 531.6 | 535.5 | 539.3 | 543.2 | 547.3 | 551.6 | 555.9 | 560.2 | 564.5 | 569.5 |
| 37.5° | 499.6 | 504.1 | 508.5 | 512.9 | 517.4 | 522.4 | 528.0 | 533.6 | 539.1 | 544.7 | 550.3 |
| 40° | 480.8 | 485.8 | 490.8 | 495.8 | 500.8 | 506.3 | 512.5 | 518.6 | 524.7 | 530.8 | 536.7 |
| 42.5° | 462.9 | 467.8 | 472.8 | 477.8 | 482.8 | 488.8 | 495.9 | 502.9 | 509.9 | 517.0 | 523.4 |
| 45° | 432.8 | 439.0 | 445.1 | 451.2 | 457.3 | 464.4 | 472.3 | 480.3 | 488.2 | 496.1 | 503.2 |
| 47.5° | 403.2 | 409.9 | 416.6 | 423.2 | 429.9 | 437.9 | 447.2 | 456.5 | 465.8 | 475.1 | 482.5 |
| 50° | 382.8 | 389.9 | 396.9 | 403.9 | 410.9 | 419.6 | 429.8 | 440.0 | 450.2 | 460.4 | 468.1 |
| 52.5° | 363.2 | 370.6 | 378.0 | 385.4 | 392.8 | 401.9 | 412.6 | 423.4 | 434.1 | 444.9 | 452.8 |
| 55° | 331.8 | 339.9 | 348.1 | 356.3 | 364.4 | 374.4 | 386.2 | 398.0 | 409.8 | 421.6 | 429.8 |
| 57.5° | 300.7 | 310.0 | 319.2 | 328.4 | 337.6 | 348.2 | 360.2 | 372.2 | 384.3 | 396.3 | 405.1 |
| 60° | 278.7 | 288.4 | 298.2 | 308.0 | 317.7 | 329.1 | 342.0 | 354.9 | 367.8 | 380.8 | 389.4 |
| 62.5° | 259.1 | 269.2 | 279.3 | 289.4 | 299.6 | 311.1 | 324.0 | 336.9 | 349.9 | 362.8 | 372.0 |
| 65° | 226.6 | 237.7 | 248.9 | 260.0 | 271.1 | 283.3 | 296.7 | 310.1 | 323.5 | 336.9 | 346.2 |
| 67.5° | 196.8 | 208.4 | 220.1 | 231.7 | 243.3 | 255.9 | 269.6 | 283.3 | 297.0 | 310.7 | 320.1 |
| 70° | 175.6 | 187.4 | 199.2 | 211.0 | 222.8 | 235.7 | 249.8 | 263.8 | 277.9 | 292.0 | 301.7 |
| 72.5° | 156.0 | 168.1 | 180.3 | 192.5 | 204.6 | 217.8 | 232.1 | 246.3 | 260.6 | 274.8 | 284.4 |
| 75° | 125.6 | 138.3 | 151.0 | 163.7 | 176.4 | 190.0 | 204.5 | 219.0 | 233.5 | 248.1 | 257.8 |
| 77.5° | 96.2 | 109.5 | 122.8 | 136.0 | 149.3 | 163.4 | 178.1 | 192.9 | 207.6 | 222.3 | 232.1 |
| 80° | 76.6 | 90.4 | 104.2 | 118.1 | 131.9 | 146.2 | 161.0 | 175.7 | 190.4 | 205.2 | 214.7 |
| 82.5° | 60.2 | 73.9 | 87.5 | 101.2 | 114.9 | 129.1 | 144.1 | 159.0 | 173.9 | 188.9 | 198.4 |
| 85° | 36.8 | 50.8 | 64.9 | 78.9 | 93.0 | 107.3 | 121.8 | 136.3 | 150.9 | 165.4 | 174.9 |
| 87.5° | 20.1 | 33.9 | 47.7 | 61.4 | 75.2 | 89.5 | 104.2 | 118.9 | 133.6 | 148.3 | 157.6 |
| 90° | 10.7 | 25.2 | 39.6 | 54.0 | 68.5 | 83.4 | 98.9 | 114.3 | 129.7 | 145.2 | 154.8 |
| 92.5° | 19.9 | 32.1 | 44.2 | 56.3 | 68.5 | 81.8 | 96.2 | 110.6 | 125.1 | 139.5 | 148.7 |
| 95° | 42.1 | 48.9 | 55.8 | 62.6 | 69.4 | 80.1 | 94.5 | 108.9 | 123.3 | 137.8 | 147.0 |
| 97.5° | 74.5 | 73.2 | 71.9 | 70.6 | 69.3 | 76.1 | 91.0 | 106.0 | 120.9 | 135.9 | 144.7 |
| 100° | 99.5 | 92.0 | 84.5 | 77.0 | 69.5 | 73.1 | 87.8 | 102.5 | 117.2 | 131.8 | 141.2 |
| 102.5° | 126.3 | 130.6 | 134.9 | 139.2 | 143.5 | 143.6 | 139.4 | 135.3 | 131.1 | 126.9 | 136.4 |
| 105° | 163.8 | 173.8 | 183.9 | 193.9 | 204.0 | 199.1 | 179.2 | 159.4 | 139.5 | 119.6 | 128.8 |
| 107.5° | 207.7 | 215.8 | 223.8 | 231.9 | 240.0 | 230.7 | 204.0 | 177.3 | 150.7 | 124.0 | 130.3 |
| 110° | 235.3 | 242.2 | 249.2 | 256.2 | 263.2 | 255.4 | 233.0 | 210.6 | 188.2 | 165.8 | 161.5 |



TEST NUMBER: P331342

CATALOG NUMBER: S122DIP-S675D530U835-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 262.0 | 268.0 | 273.9 | 279.9 | 285.9 | 290.0 | 292.3 | 294.6 | 296.9 | 299.2 | 264.1 |
| 115° | 304.2 | 308.6 | 313.1 | 317.6 | 322.0 | 330.8 | 343.9 | 357.0 | 370.1 | 383.2 | 336.4 |
| 117.5° | 340.8 | 344.7 | 348.5 | 352.3 | 356.2 | 363.8 | 375.2 | 386.7 | 398.1 | 409.5 | 403.3 |
| 120° | 368.4 | 371.0 | 373.7 | 376.3 | 379.0 | 385.9 | 397.0 | 408.2 | 419.3 | 430.5 | 438.3 |
| 122.5° | 391.8 | 393.9 | 396.1 | 398.3 | 400.5 | 407.0 | 417.8 | 428.6 | 439.4 | 450.2 | 457.2 |
| 125° | 426.3 | 427.8 | 429.3 | 430.8 | 432.4 | 437.8 | 447.3 | 456.8 | 466.2 | 475.7 | 482.6 |
| 127.5° | 458.6 | 460.0 | 461.5 | 462.9 | 464.3 | 468.8 | 476.3 | 483.8 | 491.3 | 498.8 | 505.6 |
| 130° | 479.0 | 480.7 | 482.3 | 483.9 | 485.5 | 489.4 | 495.4 | 501.5 | 507.5 | 513.5 | 520.3 |
| 132.5° | 499.9 | 501.3 | 502.6 | 504.0 | 505.3 | 508.5 | 513.4 | 518.4 | 523.3 | 528.3 | 534.6 |
| 135° | 526.0 | 527.9 | 529.7 | 531.6 | 533.4 | 536.0 | 539.3 | 542.7 | 546.0 | 549.3 | 555.2 |
| 137.5° | 553.5 | 554.7 | 556.0 | 557.2 | 558.5 | 560.2 | 562.4 | 564.6 | 566.7 | 568.9 | 574.2 |
| 140° | 571.4 | 572.1 | 572.8 | 573.5 | 574.2 | 575.4 | 577.2 | 578.9 | 580.6 | 582.4 | 587.0 |
| 142.5° | 586.5 | 587.1 | 587.7 | 588.3 | 588.9 | 590.0 | 591.5 | 593.1 | 594.6 | 596.2 | 600.0 |
| 145° | 609.0 | 608.9 | 608.8 | 608.7 | 608.6 | 609.5 | 611.5 | 613.4 | 615.4 | 617.4 | 619.5 |
| 147.5° | 629.6 | 629.1 | 628.7 | 628.3 | 627.8 | 628.6 | 630.5 | 632.5 | 634.4 | 636.4 | 637.2 |
| 150° | 642.9 | 642.1 | 641.3 | 640.5 | 639.7 | 640.2 | 642.1 | 643.9 | 645.8 | 647.6 | 648.3 |
| 152.5° | 654.2 | 653.3 | 652.4 | 651.5 | 650.6 | 651.0 | 652.8 | 654.6 | 656.3 | 658.1 | 658.8 |
| 155° | 670.6 | 669.6 | 668.5 | 667.5 | 666.4 | 666.6 | 668.0 | 669.4 | 670.8 | 672.2 | 672.9 |
| 157.5° | 683.4 | 682.6 | 681.7 | 680.8 | 679.9 | 680.0 | 680.9 | 681.9 | 682.9 | 683.9 | 684.6 |
| 160° | 691.0 | 690.3 | 689.6 | 688.9 | 688.2 | 688.2 | 688.9 | 689.6 | 690.3 | 691.0 | 691.7 |
| 162.5° | 697.6 | 696.9 | 696.2 | 695.5 | 694.9 | 694.8 | 695.4 | 696.0 | 696.6 | 697.2 | 698.0 |
| 165° | 706.6 | 705.9 | 705.2 | 704.5 | 703.8 | 703.7 | 704.0 | 704.3 | 704.7 | 705.0 | 705.9 |
| 167.5° | 713.3 | 712.6 | 711.9 | 711.2 | 710.5 | 710.3 | 710.6 | 711.0 | 711.3 | 711.6 | 712.4 |
| 170° | 717.0 | 716.4 | 715.7 | 715.0 | 714.3 | 714.0 | 714.3 | 714.5 | 714.7 | 715.0 | 715.8 |
| 172.5° | 719.6 | 718.9 | 718.2 | 717.5 | 716.8 | 716.5 | 716.8 | 717.0 | 717.2 | 717.5 | 718.3 |
| 175° | 722.8 | 722.0 | 721.2 | 720.4 | 719.5 | 719.3 | 719.5 | 719.7 | 719.9 | 720.2 | 721.0 |
| 177.5° | 723.3 | 722.7 | 722.0 | 721.4 | 720.7 | 720.4 | 720.5 | 720.6 | 720.7 | 720.8 | 721.5 |
| 180° | 721.2 | 721.2 | 721.2 | 721.2 | 721.2 | 721.2 | 721.2 | 721.2 | 721.2 | 721.2 | 721.2 |



TEST NUMBER: P331342

CATALOG NUMBER: S122DIP-S675D530U835-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 |
| 2.5° | 702.1 | 703.0 | 703.9 | 704.2 | 703.8 | 703.5 | 703.1 | 702.8 |
| 5° | 700.0 | 701.3 | 702.7 | 703.3 | 703.0 | 702.8 | 702.6 | 702.3 |
| 7.5° | 696.6 | 698.3 | 699.9 | 700.6 | 700.4 | 700.1 | 699.9 | 699.7 |
| 10° | 693.7 | 695.5 | 697.4 | 698.1 | 697.9 | 697.7 | 697.5 | 697.2 |
| 12.5° | 688.8 | 690.6 | 692.5 | 693.2 | 693.0 | 692.8 | 692.6 | 692.3 |
| 15° | 679.9 | 681.9 | 684.0 | 684.9 | 684.7 | 684.4 | 684.2 | 684.0 |
| 17.5° | 668.4 | 670.6 | 672.7 | 673.8 | 673.8 | 673.8 | 673.8 | 673.8 |
| 20° | 659.4 | 661.9 | 664.3 | 665.6 | 665.6 | 665.6 | 665.6 | 665.6 |
| 22.5° | 649.6 | 652.1 | 654.5 | 656.0 | 656.3 | 656.7 | 657.1 | 657.4 |
| 25° | 634.3 | 637.0 | 639.7 | 641.4 | 642.1 | 642.8 | 643.5 | 644.2 |
| 27.5° | 617.4 | 620.8 | 624.3 | 626.2 | 626.7 | 627.2 | 627.7 | 628.2 |
| 30° | 605.5 | 609.1 | 612.7 | 614.9 | 615.6 | 616.3 | 616.9 | 617.6 |
| 32.5° | 592.7 | 596.9 | 601.0 | 603.7 | 605.0 | 606.2 | 607.4 | 608.6 |
| 35° | 574.5 | 579.5 | 584.5 | 587.8 | 589.4 | 591.0 | 592.5 | 594.1 |
| 37.5° | 555.8 | 561.3 | 566.9 | 570.5 | 572.2 | 573.8 | 575.5 | 577.2 |
| 40° | 542.6 | 548.5 | 554.4 | 558.4 | 560.4 | 562.5 | 564.5 | 566.6 |
| 42.5° | 529.8 | 536.3 | 542.7 | 547.0 | 549.0 | 551.1 | 553.1 | 555.1 |
| 45° | 510.2 | 517.2 | 524.3 | 528.9 | 531.2 | 533.5 | 535.7 | 538.0 |
| 47.5° | 489.8 | 497.2 | 504.5 | 509.4 | 511.9 | 514.4 | 516.9 | 519.4 |
| 50° | 475.8 | 483.5 | 491.3 | 496.4 | 498.9 | 501.4 | 503.8 | 506.3 |
| 52.5° | 460.7 | 468.6 | 476.5 | 481.8 | 484.4 | 487.1 | 489.8 | 492.5 |
| 55° | 437.9 | 446.1 | 454.3 | 459.8 | 462.8 | 465.7 | 468.7 | 471.6 |
| 57.5° | 413.9 | 422.7 | 431.5 | 437.4 | 440.4 | 443.4 | 446.4 | 449.4 |
| 60° | 398.0 | 406.6 | 415.3 | 421.2 | 424.3 | 427.5 | 430.7 | 433.9 |
| 62.5° | 381.1 | 390.3 | 399.5 | 405.6 | 408.5 | 411.5 | 414.5 | 417.5 |
| 65° | 355.5 | 364.8 | 374.1 | 380.2 | 383.2 | 386.1 | 389.1 | 392.0 |
| 67.5° | 329.5 | 338.9 | 348.3 | 354.6 | 357.6 | 360.7 | 363.8 | 366.9 |
| 70° | 311.5 | 321.2 | 331.0 | 337.2 | 339.9 | 342.7 | 345.4 | 348.1 |
| 72.5° | 294.0 | 303.5 | 313.1 | 319.5 | 322.8 | 326.1 | 329.3 | 332.6 |
| 75° | 267.6 | 277.3 | 287.1 | 293.4 | 296.4 | 299.3 | 302.3 | 305.2 |
| 77.5° | 241.8 | 251.5 | 261.2 | 267.6 | 270.8 | 274.0 | 277.1 | 280.3 |
| 80° | 224.2 | 233.8 | 243.3 | 249.7 | 252.8 | 256.0 | 259.2 | 262.4 |
| 82.5° | 207.9 | 217.4 | 227.0 | 233.2 | 236.2 | 239.2 | 242.2 | 245.2 |
| 85° | 184.4 | 194.0 | 203.5 | 209.8 | 213.0 | 216.2 | 219.4 | 222.5 |
| 87.5° | 167.0 | 176.4 | 185.8 | 191.9 | 194.9 | 197.8 | 200.8 | 203.7 |
| 90° | 164.5 | 174.2 | 183.8 | 190.1 | 193.1 | 196.0 | 199.0 | 201.9 |
| 92.5° | 157.9 | 167.1 | 176.3 | 182.3 | 185.2 | 188.0 | 190.9 | 193.8 |
| 95° | 156.2 | 165.4 | 174.6 | 180.5 | 183.1 | 185.7 | 188.3 | 190.9 |
| 97.5° | 153.6 | 162.4 | 171.3 | 177.1 | 179.9 | 182.8 | 185.6 | 188.4 |
| 100° | 150.5 | 159.8 | 169.1 | 175.1 | 177.9 | 180.6 | 183.3 | 186.1 |
| 102.5° | 145.8 | 155.2 | 164.6 | 170.7 | 173.6 | 176.4 | 179.2 | 182.0 |
| 105° | 138.1 | 147.3 | 156.5 | 162.6 | 165.5 | 168.5 | 171.5 | 174.4 |
| 107.5° | 136.6 | 143.0 | 149.3 | 153.9 | 156.9 | 159.8 | 162.8 | 165.8 |
| 110° | 157.2 | 152.8 | 148.5 | 147.8 | 150.8 | 153.7 | 156.7 | 159.6 |



TEST NUMBER: P331342

CATALOG NUMBER: S122DIP-S675D530U835-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 229.1 | 194.0 | 159.0 | 142.9 | 145.7 | 148.6 | 151.5 | 154.3 |
| 115° | 289.5 | 242.6 | 195.7 | 169.3 | 163.5 | 157.6 | 151.8 | 145.9 |
| 117.5° | 397.0 | 390.7 | 384.4 | 368.7 | 343.6 | 318.5 | 293.4 | 268.2 |
| 120° | 446.0 | 453.7 | 461.5 | 458.8 | 445.6 | 432.5 | 419.3 | 406.1 |
| 122.5° | 464.3 | 471.3 | 478.3 | 481.3 | 480.4 | 479.5 | 478.6 | 477.7 |
| 125° | 489.6 | 496.5 | 503.4 | 508.1 | 510.5 | 512.9 | 515.3 | 517.7 |
| 127.5° | 512.4 | 519.2 | 526.1 | 530.5 | 532.6 | 534.6 | 536.7 | 538.8 |
| 130° | 527.0 | 533.7 | 540.4 | 544.6 | 546.3 | 548.0 | 549.7 | 551.4 |
| 132.5° | 541.0 | 547.3 | 553.7 | 557.7 | 559.4 | 561.1 | 562.8 | 564.5 |
| 135° | 561.1 | 567.0 | 573.0 | 576.7 | 578.3 | 579.9 | 581.5 | 583.1 |
| 137.5° | 579.5 | 584.9 | 590.2 | 593.4 | 594.5 | 595.7 | 596.8 | 598.0 |
| 140° | 591.7 | 596.4 | 601.1 | 603.8 | 604.6 | 605.3 | 606.1 | 606.9 |
| 142.5° | 603.9 | 607.7 | 611.6 | 613.8 | 614.4 | 615.0 | 615.6 | 616.2 |
| 145° | 621.7 | 623.9 | 626.1 | 627.4 | 628.0 | 628.5 | 629.1 | 629.6 |
| 147.5° | 637.9 | 638.7 | 639.5 | 639.9 | 640.0 | 640.0 | 640.1 | 640.2 |
| 150° | 649.0 | 649.7 | 650.4 | 650.5 | 649.9 | 649.3 | 648.7 | 648.2 |
| 152.5° | 659.5 | 660.2 | 660.9 | 660.8 | 660.1 | 659.3 | 658.5 | 657.8 |
| 155° | 673.6 | 674.3 | 675.0 | 674.8 | 673.9 | 673.0 | 672.1 | 671.1 |
| 157.5° | 685.4 | 686.2 | 687.0 | 687.0 | 686.0 | 685.1 | 684.2 | 683.3 |
| 160° | 692.3 | 693.0 | 693.7 | 693.7 | 692.9 | 692.1 | 691.2 | 690.4 |
| 162.5° | 698.8 | 699.6 | 700.4 | 700.3 | 699.3 | 698.3 | 697.3 | 696.3 |
| 165° | 706.7 | 707.5 | 708.3 | 708.3 | 707.5 | 706.7 | 705.9 | 705.0 |
| 167.5° | 713.2 | 714.1 | 714.9 | 714.8 | 713.7 | 712.7 | 711.6 | 710.6 |
| 170° | 716.6 | 717.4 | 718.2 | 718.1 | 717.0 | 716.0 | 715.0 | 713.9 |
| 172.5° | 719.1 | 719.9 | 720.7 | 720.6 | 719.6 | 718.5 | 717.5 | 716.4 |
| 175° | 721.8 | 722.6 | 723.4 | 723.3 | 722.1 | 720.9 | 719.8 | 718.6 |
| 177.5° | 722.1 | 722.8 | 723.4 | 723.3 | 722.5 | 721.6 | 720.8 | 720.0 |
| 180° | 721.2 | 721.2 | 721.2 | 721.2 | 721.2 | 721.2 | 721.2 | 721.2 |

(END OF REPORT)