

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: P331371-840

Luminaire Tested: **S122DIP-S675D1080U840-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331371-840
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-S675D1080U840-4F0-1E-UDD-D4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1080 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6964.3 lumens
Efficiency: N/A
Efficacy: 122.4 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

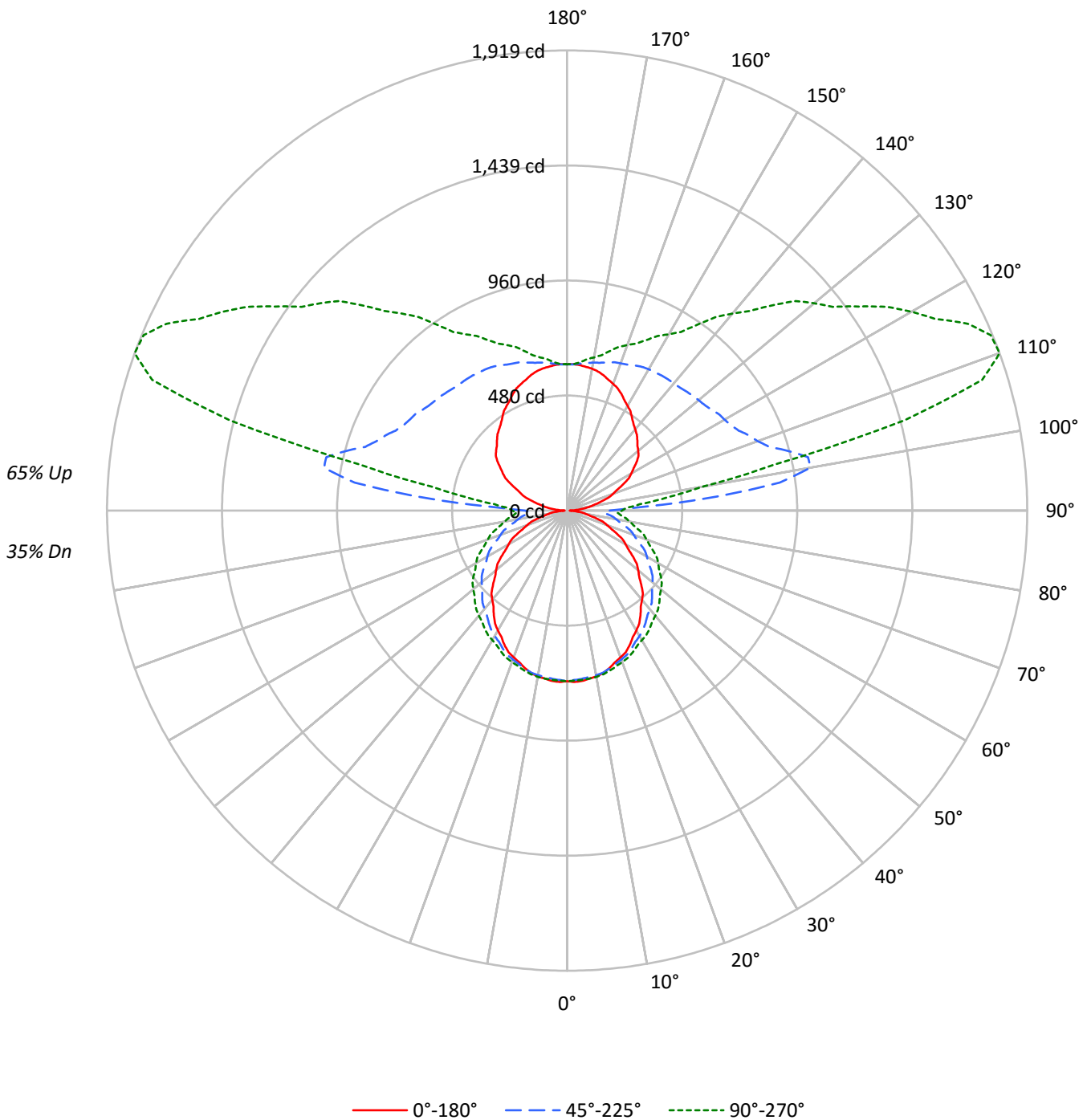
Input Watts (W): 56.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331371-840

CATALOG NUMBER: S122DIP-S675D1080U840-4F0-1E-UDD-D4

Luminous Intensity Polar Plot





TEST NUMBER: P331371-840

CATALOG NUMBER: S122DIP-S675D1080U840-4F0-1E-UDD-D4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|--|--|--|----|--|--|--|--|--|--|--|--|----|---|
| RF | 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 | 50 | 30 | 10 | 0 | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 75 | 75 | 75 | 58 | 58 | 58 | 42 | 42 | 42 | 35 | | | | | | | | | | | | | | | | | | | | |
| 1 | 93 | 89 | 84 | 81 | 84 | 80 | 76 | 73 | 64 | 61 | 59 | 49 | 47 | 46 | 35 | 34 | 33 | 27 | | | | | | | | | | | | | | | | | | | | |
| 2 | 84 | 77 | 70 | 65 | 76 | 69 | 64 | 59 | 55 | 51 | 48 | 42 | 40 | 37 | 31 | 29 | 27 | 22 | | | | | | | | | | | | | | | | | | | | |
| 3 | 77 | 67 | 60 | 54 | 69 | 61 | 54 | 49 | 48 | 44 | 40 | 37 | 34 | 31 | 27 | 25 | 23 | 18 | | | | | | | | | | | | | | | | | | | | |
| 4 | 70 | 59 | 51 | 45 | 63 | 53 | 46 | 41 | 43 | 38 | 34 | 33 | 29 | 26 | 24 | 21 | 19 | 15 | | | | | | | | | | | | | | | | | | | | |
| 5 | 64 | 52 | 44 | 38 | 57 | 47 | 40 | 35 | 38 | 33 | 29 | 29 | 26 | 23 | 21 | 19 | 17 | 13 | | | | | | | | | | | | | | | | | | | | |
| 6 | 59 | 47 | 39 | 33 | 53 | 42 | 35 | 30 | 34 | 29 | 25 | 26 | 23 | 20 | 19 | 17 | 14 | 11 | | | | | | | | | | | | | | | | | | | | |
| 7 | 54 | 42 | 34 | 28 | 49 | 38 | 31 | 26 | 31 | 25 | 22 | 24 | 20 | 17 | 17 | 15 | 13 | 10 | | | | | | | | | | | | | | | | | | | | |
| 8 | 50 | 38 | 30 | 25 | 45 | 35 | 28 | 23 | 28 | 23 | 19 | 22 | 18 | 15 | 16 | 13 | 11 | 9 | | | | | | | | | | | | | | | | | | | | |
| 9 | 47 | 35 | 27 | 22 | 42 | 31 | 25 | 20 | 26 | 20 | 17 | 20 | 16 | 14 | 15 | 12 | 10 | 8 | | | | | | | | | | | | | | | | | | | | |
| 10 | 44 | 32 | 24 | 20 | 39 | 29 | 22 | 18 | 23 | 18 | 15 | 18 | 15 | 12 | 14 | 11 | 9 | 7 | | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 11485 | 11485 | 11485 |
| 5° | 11541 | 11055 | 11013 |
| 10° | 11469 | 10729 | 10608 |
| 15° | 11310 | 10384 | 10181 |
| 20° | 11112 | 10013 | 9772 |
| 25° | 10913 | 9655 | 9399 |
| 30° | 10635 | 9288 | 9023 |
| 35° | 10355 | 8933 | 8760 |
| 40° | 10057 | 8630 | 8496 |
| 45° | 9777 | 8361 | 8270 |
| 50° | 9476 | 8116 | 8048 |
| 55° | 9160 | 7855 | 7822 |
| 60° | 8770 | 7583 | 7583 |
| 65° | 8367 | 7262 | 7299 |
| 70° | 7917 | 6920 | 6990 |
| 75° | 7339 | 6581 | 6708 |
| 80° | 6436 | 6238 | 6424 |
| 85° | 5566 | 5939 | 6199 |



TEST NUMBER: P331371-840

CATALOG NUMBER: S122DIP-S675D1080U840-4F0-1E-UDD-D4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 67.4 | 1.0 |
| 10°-20° | 193.3 | 2.8 |
| 20°-30° | 292.9 | 4.2 |
| 30°-40° | 356.7 | 5.1 |
| 40°-50° | 383.8 | 5.5 |
| 50°-60° | 372.7 | 5.4 |
| 60°-70° | 325.4 | 4.7 |
| 70°-80° | 250.5 | 3.6 |
| 80°-90° | 173.6 | 2.5 |
| 90°-100° | 359.8 | 5.2 |
| 100°-110° | 912.3 | 13.1 |
| 110°-120° | 935.2 | 13.4 |
| 120°-130° | 755.0 | 10.8 |
| 130°-140° | 594.4 | 8.5 |
| 140°-150° | 441.6 | 6.3 |
| 150°-160° | 308.7 | 4.4 |
| 160°-170° | 181.7 | 2.6 |
| 170°-180° | 59.1 | 0.8 |
| 0°-30° | 553.6 | 7.9 |
| 0°-40° | 910.3 | 13.1 |
| 0°-60° | 1666.8 | 23.9 |
| 0°-90° | 2416.5 | 34.7 |
| 90°-120° | 2207.3 | 31.7 |
| 90°-150° | 3998.2 | 57.4 |
| 90°-180° | 4548.0 | 65.3 |
| 0°-180° | 6964.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|------|------|
| 0° | 711 | 711 | 711 | 711 | 711 | |
| 5° | 713 | 710 | 704 | 710 | 709 | 68 |
| 15° | 680 | 682 | 682 | 691 | 691 | 192 |
| 25° | 618 | 626 | 635 | 647 | 651 | 284 |
| 35° | 533 | 551 | 570 | 592 | 600 | 333 |
| 45° | 437 | 465 | 501 | 532 | 543 | 337 |
| 55° | 335 | 373 | 426 | 462 | 476 | 299 |
| 65° | 229 | 280 | 340 | 381 | 396 | 227 |
| 75° | 127 | 185 | 250 | 293 | 308 | 134 |
| 85° | 37 | 101 | 167 | 209 | 225 | 40 |
| 90° | 12 | 86 | 176 | 214 | 228 | 9 |
| 95° | 49 | 158 | 578 | 330 | 304 | 50 |
| 105° | 148 | 252 | 958 | 1677 | 1458 | 158 |
| 115° | 256 | 336 | 789 | 1593 | 1844 | 254 |
| 125° | 354 | 420 | 734 | 1278 | 1484 | 315 |
| 135° | 414 | 494 | 702 | 1054 | 1211 | 320 |
| 145° | 472 | 542 | 687 | 860 | 945 | 296 |
| 155° | 536 | 579 | 668 | 755 | 785 | 247 |
| 165° | 584 | 602 | 639 | 678 | 689 | 165 |
| 175° | 609 | 609 | 615 | 622 | 621 | 58 |
| 180° | 610 | 610 | 610 | 610 | 610 | |



TEST NUMBER: P331371-840

CATALOG NUMBER: S122DIP-S675D1080U840-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 0° | 711.3 | 711.3 | 711.3 | 711.3 | 711.3 | 711.3 | 711.3 | 711.3 | 711.3 | 711.3 | 711.3 |
| 2.5° | 715.5 | 714.9 | 714.4 | 713.8 | 713.3 | 712.4 | 711.0 | 709.7 | 708.5 | 707.2 | 708.1 |
| 5° | 713.4 | 712.7 | 712.1 | 711.3 | 710.6 | 709.6 | 708.2 | 706.9 | 705.5 | 704.1 | 705.5 |
| 7.5° | 707.0 | 706.5 | 706.1 | 705.6 | 705.2 | 704.4 | 703.4 | 702.3 | 701.3 | 700.2 | 701.9 |
| 10° | 702.1 | 701.6 | 701.1 | 700.6 | 700.2 | 699.6 | 698.9 | 698.3 | 697.6 | 696.9 | 698.7 |
| 12.5° | 693.8 | 693.9 | 694.0 | 694.1 | 694.2 | 694.0 | 693.5 | 693.0 | 692.5 | 692.0 | 693.8 |
| 15° | 680.4 | 680.9 | 681.4 | 681.8 | 682.3 | 682.5 | 682.5 | 682.5 | 682.5 | 682.5 | 684.5 |
| 17.5° | 663.1 | 664.1 | 665.0 | 666.0 | 666.9 | 667.8 | 668.5 | 669.2 | 669.9 | 670.8 | 672.9 |
| 20° | 651.6 | 652.7 | 653.8 | 655.0 | 656.1 | 657.1 | 658.0 | 659.0 | 659.9 | 660.9 | 663.4 |
| 22.5° | 639.1 | 640.5 | 641.9 | 643.2 | 644.5 | 645.8 | 647.1 | 648.3 | 649.6 | 651.0 | 653.5 |
| 25° | 618.5 | 620.2 | 621.8 | 623.4 | 625.0 | 626.8 | 628.8 | 631.0 | 633.0 | 635.0 | 637.8 |
| 27.5° | 593.8 | 596.4 | 599.1 | 601.7 | 604.3 | 606.8 | 609.3 | 611.7 | 614.1 | 616.5 | 620.0 |
| 30° | 577.3 | 580.3 | 583.3 | 586.2 | 589.3 | 592.2 | 595.2 | 598.1 | 601.2 | 604.1 | 607.7 |
| 32.5° | 559.2 | 562.5 | 565.8 | 569.2 | 572.6 | 576.0 | 579.6 | 583.0 | 586.5 | 590.1 | 594.3 |
| 35° | 533.0 | 536.8 | 540.8 | 544.6 | 548.6 | 552.7 | 557.0 | 561.4 | 565.7 | 570.1 | 575.1 |
| 37.5° | 504.5 | 509.1 | 513.5 | 518.0 | 522.5 | 527.6 | 533.2 | 538.9 | 544.4 | 550.1 | 555.7 |
| 40° | 485.5 | 490.6 | 495.6 | 500.7 | 505.7 | 511.3 | 517.6 | 523.7 | 529.9 | 536.0 | 542.0 |
| 42.5° | 467.5 | 472.4 | 477.5 | 482.5 | 487.6 | 493.6 | 500.8 | 507.9 | 514.9 | 522.1 | 528.6 |
| 45° | 437.1 | 443.3 | 449.5 | 455.7 | 461.8 | 469.0 | 477.0 | 485.0 | 493.0 | 501.0 | 508.2 |
| 47.5° | 407.2 | 413.9 | 420.7 | 427.4 | 434.1 | 442.2 | 451.6 | 461.0 | 470.4 | 479.8 | 487.3 |
| 50° | 386.6 | 393.7 | 400.8 | 407.9 | 415.0 | 423.7 | 434.0 | 444.3 | 454.6 | 464.9 | 472.7 |
| 52.5° | 366.8 | 374.3 | 381.7 | 389.2 | 396.7 | 405.9 | 416.7 | 427.6 | 438.4 | 449.3 | 457.3 |
| 55° | 335.1 | 343.3 | 351.5 | 359.8 | 368.0 | 378.1 | 390.0 | 401.9 | 413.8 | 425.8 | 434.0 |
| 57.5° | 303.7 | 313.1 | 322.3 | 331.6 | 340.9 | 351.6 | 363.8 | 375.9 | 388.1 | 400.2 | 409.1 |
| 60° | 281.4 | 291.2 | 301.1 | 311.0 | 320.8 | 332.3 | 345.4 | 358.4 | 371.4 | 384.6 | 393.2 |
| 62.5° | 261.7 | 271.9 | 282.1 | 292.3 | 302.6 | 314.2 | 327.2 | 340.2 | 353.4 | 366.4 | 375.7 |
| 65° | 228.8 | 240.0 | 251.4 | 262.6 | 273.8 | 286.1 | 299.6 | 313.2 | 326.7 | 340.2 | 349.6 |
| 67.5° | 198.7 | 210.5 | 222.3 | 234.0 | 245.7 | 258.4 | 272.3 | 286.1 | 299.9 | 313.8 | 323.3 |
| 70° | 177.3 | 189.2 | 201.2 | 213.1 | 225.0 | 238.0 | 252.3 | 266.4 | 280.6 | 294.9 | 304.7 |
| 72.5° | 157.5 | 169.8 | 182.1 | 194.4 | 206.6 | 219.9 | 234.4 | 248.7 | 263.2 | 277.5 | 287.2 |
| 75° | 126.8 | 139.7 | 152.5 | 165.3 | 178.1 | 191.9 | 206.5 | 221.2 | 235.8 | 250.5 | 260.3 |
| 77.5° | 97.1 | 110.6 | 124.0 | 137.3 | 150.8 | 165.0 | 179.9 | 194.8 | 209.6 | 224.5 | 234.4 |
| 80° | 77.4 | 91.3 | 105.2 | 119.3 | 133.2 | 147.6 | 162.6 | 177.4 | 192.3 | 207.2 | 216.8 |
| 82.5° | 60.8 | 74.6 | 88.4 | 102.2 | 116.0 | 130.4 | 145.5 | 160.6 | 175.6 | 190.8 | 200.4 |
| 85° | 37.2 | 51.3 | 65.5 | 79.7 | 93.9 | 108.4 | 123.0 | 137.6 | 152.4 | 167.0 | 176.6 |
| 87.5° | 20.4 | 34.8 | 49.4 | 63.5 | 77.7 | 92.5 | 108.4 | 124.6 | 140.7 | 155.6 | 164.7 |
| 90° | 11.5 | 28.3 | 46.3 | 61.9 | 77.6 | 95.0 | 115.5 | 138.5 | 160.2 | 175.9 | 184.0 |
| 92.5° | 23.8 | 42.5 | 63.3 | 80.9 | 101.2 | 125.4 | 166.1 | 217.5 | 265.0 | 281.1 | 266.4 |
| 95° | 49.3 | 64.7 | 87.3 | 108.6 | 138.1 | 178.5 | 246.2 | 362.0 | 511.9 | 578.5 | 529.7 |
| 97.5° | 74.1 | 90.0 | 112.0 | 137.5 | 168.7 | 212.0 | 293.0 | 448.4 | 687.7 | 894.7 | 941.7 |
| 100° | 97.6 | 109.6 | 128.6 | 155.8 | 187.7 | 231.3 | 306.3 | 462.2 | 728.4 | 1029.9 | 1207.3 |
| 102.5° | 118.4 | 128.7 | 146.9 | 173.5 | 205.6 | 248.5 | 318.5 | 458.1 | 705.2 | 1028.7 | 1302.7 |
| 105° | 148.2 | 159.7 | 174.5 | 198.7 | 231.2 | 273.3 | 340.3 | 456.7 | 662.2 | 958.0 | 1278.0 |
| 107.5° | 181.9 | 191.0 | 204.2 | 225.7 | 256.6 | 298.0 | 362.9 | 465.4 | 636.8 | 882.8 | 1166.3 |
| 110° | 203.6 | 212.9 | 224.5 | 244.3 | 273.5 | 315.4 | 378.3 | 473.9 | 628.3 | 846.0 | 1096.2 |



TEST NUMBER: P331371-840

CATALOG NUMBER: S122DIP-S675D1080U840-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 112.5° | 224.2 | 232.8 | 244.6 | 262.8 | 290.2 | 332.5 | 392.9 | 483.3 | 624.0 | 819.6 | 1045.3 |
| 115° | 256.3 | 264.7 | 274.3 | 290.8 | 316.9 | 355.0 | 415.8 | 497.6 | 621.7 | 789.2 | 981.4 |
| 117.5° | 288.6 | 295.0 | 303.7 | 317.7 | 341.9 | 380.3 | 436.6 | 513.2 | 622.5 | 769.7 | 937.7 |
| 120° | 309.3 | 314.9 | 322.9 | 334.4 | 358.7 | 396.6 | 451.5 | 524.0 | 623.5 | 758.2 | 913.6 |
| 122.5° | 329.0 | 333.2 | 340.5 | 352.3 | 376.2 | 414.4 | 466.1 | 533.3 | 625.7 | 749.5 | 892.5 |
| 125° | 354.0 | 357.5 | 364.6 | 378.6 | 402.1 | 438.6 | 488.2 | 548.3 | 628.3 | 734.3 | 861.2 |
| 127.5° | 374.7 | 379.1 | 388.7 | 403.9 | 426.3 | 462.9 | 509.9 | 563.2 | 632.5 | 722.9 | 832.2 |
| 130° | 386.9 | 391.3 | 402.8 | 419.0 | 442.2 | 477.4 | 523.2 | 572.6 | 636.1 | 716.0 | 813.0 |
| 132.5° | 398.1 | 403.5 | 416.0 | 433.1 | 457.3 | 491.8 | 534.7 | 582.1 | 639.7 | 710.1 | 796.6 |
| 135° | 413.9 | 418.7 | 432.7 | 450.3 | 477.4 | 511.3 | 551.2 | 594.5 | 643.7 | 702.4 | 774.0 |
| 137.5° | 429.9 | 435.6 | 449.6 | 468.3 | 494.9 | 525.9 | 564.0 | 603.3 | 647.0 | 696.1 | 756.4 |
| 140° | 442.1 | 446.6 | 460.4 | 479.0 | 504.5 | 535.1 | 570.9 | 607.6 | 648.0 | 691.9 | 746.0 |
| 142.5° | 454.3 | 457.9 | 470.8 | 489.3 | 513.9 | 542.5 | 576.8 | 612.4 | 649.5 | 690.2 | 737.0 |
| 145° | 471.6 | 476.3 | 488.1 | 505.6 | 529.1 | 554.9 | 586.5 | 619.5 | 652.3 | 687.4 | 726.4 |
| 147.5° | 491.3 | 494.8 | 506.0 | 522.3 | 541.8 | 564.7 | 594.5 | 623.4 | 653.2 | 683.3 | 716.3 |
| 150° | 504.4 | 508.0 | 517.4 | 532.6 | 550.2 | 571.3 | 598.3 | 625.3 | 652.3 | 680.4 | 708.5 |
| 152.5° | 517.6 | 519.3 | 528.6 | 542.0 | 558.7 | 577.8 | 602.1 | 626.2 | 650.4 | 675.7 | 702.0 |
| 155° | 536.1 | 537.2 | 544.3 | 557.2 | 570.2 | 587.7 | 607.6 | 627.6 | 647.5 | 667.5 | 689.8 |
| 157.5° | 551.6 | 552.8 | 558.5 | 569.7 | 580.0 | 594.8 | 611.7 | 627.6 | 642.2 | 659.0 | 678.3 |
| 160° | 561.9 | 563.1 | 567.7 | 577.1 | 586.5 | 599.5 | 613.6 | 627.6 | 639.3 | 653.5 | 669.8 |
| 162.5° | 572.3 | 571.6 | 576.2 | 583.7 | 592.2 | 602.3 | 614.5 | 626.7 | 636.5 | 648.7 | 662.4 |
| 165° | 584.2 | 583.1 | 585.4 | 592.4 | 598.3 | 605.3 | 615.9 | 624.1 | 631.2 | 639.3 | 649.9 |
| 167.5° | 594.1 | 592.7 | 594.8 | 599.3 | 603.5 | 607.9 | 615.6 | 622.5 | 625.7 | 631.2 | 637.7 |
| 170° | 600.7 | 598.3 | 599.5 | 603.0 | 605.3 | 608.8 | 614.7 | 620.6 | 622.9 | 626.4 | 631.2 |
| 172.5° | 604.4 | 603.0 | 602.3 | 605.8 | 607.2 | 609.8 | 613.8 | 617.7 | 619.1 | 620.9 | 624.6 |
| 175° | 608.8 | 607.6 | 606.5 | 608.8 | 608.8 | 610.1 | 612.4 | 614.7 | 613.6 | 614.7 | 615.9 |
| 177.5° | 611.0 | 609.0 | 608.1 | 610.1 | 610.1 | 610.1 | 611.0 | 612.9 | 611.0 | 610.1 | 611.0 |
| 180° | 610.1 | 610.1 | 610.1 | 610.1 | 610.1 | 610.1 | 610.1 | 610.1 | 610.1 | 610.1 | 610.1 |



TEST NUMBER: P331371-840

CATALOG NUMBER: S122DIP-S675D1080U840-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 711.3 | 711.3 | 711.3 | 711.3 | 711.3 | 711.3 | 711.3 | 711.3 |
| 2.5° | 709.0 | 709.9 | 710.8 | 711.1 | 710.7 | 710.4 | 710.0 | 709.7 |
| 5° | 706.9 | 708.2 | 709.6 | 710.2 | 709.9 | 709.7 | 709.5 | 709.2 |
| 7.5° | 703.5 | 705.2 | 706.8 | 707.5 | 707.3 | 707.0 | 706.8 | 706.6 |
| 10° | 700.5 | 702.4 | 704.3 | 705.0 | 704.8 | 704.6 | 704.4 | 704.1 |
| 12.5° | 695.6 | 697.4 | 699.3 | 700.0 | 699.8 | 699.6 | 699.4 | 699.1 |
| 15° | 686.6 | 688.6 | 690.7 | 691.7 | 691.5 | 691.2 | 690.9 | 690.7 |
| 17.5° | 675.0 | 677.2 | 679.3 | 680.4 | 680.4 | 680.4 | 680.4 | 680.4 |
| 20° | 665.9 | 668.4 | 670.9 | 672.2 | 672.2 | 672.2 | 672.2 | 672.2 |
| 22.5° | 656.0 | 658.5 | 661.0 | 662.5 | 662.8 | 663.2 | 663.6 | 663.9 |
| 25° | 640.6 | 643.3 | 646.0 | 647.7 | 648.4 | 649.1 | 649.8 | 650.6 |
| 27.5° | 623.5 | 626.9 | 630.5 | 632.4 | 632.9 | 633.4 | 633.9 | 634.4 |
| 30° | 611.5 | 615.1 | 618.7 | 621.0 | 621.7 | 622.4 | 623.0 | 623.7 |
| 32.5° | 598.5 | 602.8 | 606.9 | 609.7 | 611.0 | 612.2 | 613.4 | 614.6 |
| 35° | 580.2 | 585.2 | 590.3 | 593.6 | 595.2 | 596.8 | 598.3 | 600.0 |
| 37.5° | 561.3 | 566.8 | 572.5 | 576.1 | 577.8 | 579.5 | 581.2 | 582.9 |
| 40° | 548.0 | 553.9 | 559.9 | 563.9 | 565.9 | 568.0 | 570.1 | 572.2 |
| 42.5° | 535.0 | 541.6 | 548.1 | 552.4 | 554.4 | 556.5 | 558.6 | 560.6 |
| 45° | 515.2 | 522.3 | 529.5 | 534.1 | 536.4 | 538.8 | 541.0 | 543.3 |
| 47.5° | 494.6 | 502.1 | 509.5 | 514.4 | 516.9 | 519.5 | 522.0 | 524.5 |
| 50° | 480.5 | 488.3 | 496.1 | 501.3 | 503.8 | 506.3 | 508.8 | 511.3 |
| 52.5° | 465.2 | 473.2 | 481.2 | 486.6 | 489.2 | 491.9 | 494.6 | 497.4 |
| 55° | 442.2 | 450.5 | 458.8 | 464.3 | 467.4 | 470.3 | 473.3 | 476.3 |
| 57.5° | 418.0 | 426.9 | 435.8 | 441.7 | 444.7 | 447.8 | 450.8 | 453.8 |
| 60° | 401.9 | 410.6 | 419.4 | 425.4 | 428.5 | 431.7 | 434.9 | 438.2 |
| 62.5° | 384.9 | 394.2 | 403.4 | 409.6 | 412.5 | 415.6 | 418.6 | 421.6 |
| 65° | 359.0 | 368.4 | 377.8 | 384.0 | 387.0 | 389.9 | 392.9 | 395.9 |
| 67.5° | 332.8 | 342.2 | 351.7 | 358.1 | 361.1 | 364.3 | 367.4 | 370.5 |
| 70° | 314.6 | 324.4 | 334.3 | 340.5 | 343.3 | 346.1 | 348.8 | 351.5 |
| 72.5° | 296.9 | 306.5 | 316.2 | 322.7 | 326.0 | 329.3 | 332.5 | 335.9 |
| 75° | 270.2 | 280.0 | 289.9 | 296.3 | 299.3 | 302.3 | 305.3 | 308.2 |
| 77.5° | 244.2 | 254.0 | 263.8 | 270.2 | 273.5 | 276.7 | 279.8 | 283.1 |
| 80° | 226.4 | 236.1 | 245.7 | 252.2 | 255.3 | 258.5 | 261.8 | 265.0 |
| 82.5° | 210.0 | 219.5 | 229.2 | 235.5 | 238.5 | 241.6 | 244.6 | 247.6 |
| 85° | 186.2 | 195.9 | 205.5 | 211.9 | 215.1 | 218.3 | 221.6 | 224.7 |
| 87.5° | 173.8 | 182.7 | 192.5 | 198.9 | 201.9 | 204.8 | 207.7 | 210.7 |
| 90° | 192.0 | 198.7 | 210.3 | 217.4 | 220.2 | 222.9 | 225.6 | 228.4 |
| 92.5° | 248.9 | 243.4 | 242.5 | 241.1 | 242.9 | 241.9 | 245.6 | 246.4 |
| 95° | 443.3 | 380.5 | 339.9 | 319.8 | 307.3 | 300.6 | 299.9 | 303.9 |
| 97.5° | 843.9 | 722.0 | 603.5 | 524.3 | 471.0 | 444.8 | 430.4 | 423.2 |
| 100° | 1191.1 | 1054.1 | 901.9 | 765.5 | 670.6 | 622.7 | 591.2 | 572.6 |
| 102.5° | 1416.7 | 1392.2 | 1282.9 | 1138.0 | 1034.7 | 951.1 | 911.2 | 885.0 |
| 105° | 1530.0 | 1670.6 | 1693.9 | 1660.4 | 1590.2 | 1520.0 | 1472.1 | 1458.2 |
| 107.5° | 1432.7 | 1640.1 | 1769.8 | 1831.7 | 1843.4 | 1841.9 | 1834.3 | 1815.0 |
| 110° | 1351.0 | 1568.3 | 1725.9 | 1826.9 | 1880.0 | 1904.7 | 1917.8 | 1919.1 |



TEST NUMBER: P331371-840

CATALOG NUMBER: S122DIP-S675D1080U840-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 1275.9 | 1484.7 | 1652.5 | 1767.7 | 1840.4 | 1880.2 | 1902.7 | 1911.5 |
| 115° | 1181.8 | 1369.4 | 1529.9 | 1655.5 | 1741.3 | 1797.8 | 1830.8 | 1843.9 |
| 117.5° | 1108.9 | 1274.3 | 1420.5 | 1538.3 | 1625.7 | 1685.0 | 1719.5 | 1730.7 |
| 120° | 1071.4 | 1223.2 | 1354.0 | 1465.2 | 1549.8 | 1607.5 | 1644.1 | 1658.3 |
| 122.5° | 1040.7 | 1180.2 | 1304.2 | 1404.8 | 1480.7 | 1537.0 | 1569.4 | 1581.4 |
| 125° | 995.3 | 1122.4 | 1231.7 | 1323.8 | 1393.9 | 1440.6 | 1472.0 | 1483.5 |
| 127.5° | 950.5 | 1065.5 | 1168.6 | 1253.6 | 1314.9 | 1358.8 | 1386.1 | 1395.6 |
| 130° | 921.7 | 1028.1 | 1126.3 | 1207.4 | 1266.7 | 1308.4 | 1333.7 | 1344.9 |
| 132.5° | 893.9 | 992.6 | 1083.1 | 1159.4 | 1217.8 | 1259.5 | 1282.9 | 1293.1 |
| 135° | 855.1 | 937.3 | 1019.6 | 1088.5 | 1140.8 | 1181.3 | 1204.4 | 1210.8 |
| 137.5° | 822.7 | 891.7 | 957.5 | 1017.5 | 1065.1 | 1100.0 | 1120.0 | 1128.7 |
| 140° | 802.4 | 862.4 | 920.0 | 974.2 | 1013.1 | 1045.0 | 1063.9 | 1072.4 |
| 142.5° | 786.2 | 837.0 | 886.4 | 931.6 | 968.5 | 997.3 | 1014.2 | 1016.8 |
| 145° | 764.1 | 804.2 | 841.9 | 877.3 | 906.6 | 927.6 | 940.5 | 945.1 |
| 147.5° | 747.4 | 778.1 | 806.7 | 831.9 | 855.7 | 872.2 | 880.7 | 883.4 |
| 150° | 736.7 | 762.5 | 787.2 | 808.3 | 825.9 | 840.0 | 847.0 | 848.2 |
| 152.5° | 726.4 | 750.3 | 771.2 | 789.5 | 803.3 | 815.6 | 820.7 | 820.9 |
| 155° | 712.1 | 730.8 | 748.4 | 761.3 | 774.3 | 782.4 | 787.2 | 784.9 |
| 157.5° | 695.4 | 711.1 | 725.9 | 736.0 | 745.2 | 751.9 | 754.1 | 754.1 |
| 160° | 685.1 | 698.0 | 710.9 | 719.1 | 727.3 | 733.2 | 734.4 | 734.4 |
| 162.5° | 674.8 | 685.8 | 696.8 | 703.2 | 711.3 | 715.4 | 716.5 | 715.6 |
| 165° | 659.3 | 667.5 | 675.7 | 680.4 | 685.1 | 689.8 | 689.8 | 688.6 |
| 167.5° | 644.5 | 650.9 | 656.5 | 660.8 | 662.8 | 665.4 | 665.2 | 663.8 |
| 170° | 637.0 | 640.6 | 645.2 | 647.5 | 648.7 | 652.3 | 651.1 | 648.7 |
| 172.5° | 628.5 | 631.2 | 634.9 | 636.3 | 637.5 | 639.1 | 637.9 | 636.5 |
| 175° | 619.5 | 620.6 | 621.8 | 622.9 | 622.9 | 624.1 | 622.9 | 620.6 |
| 177.5° | 612.9 | 612.9 | 613.8 | 613.8 | 613.8 | 613.8 | 612.9 | 611.0 |
| 180° | 610.1 | 610.1 | 610.1 | 610.1 | 610.1 | 610.1 | 610.1 | 610.1 |

(END OF REPORT)