

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: P332657-930

Luminaire Tested: **S124DIP-S1020D1035U930-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332657-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIP-S1020D1035U930-4F0-1E-UDD-D4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6446.8 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: General Diffuse

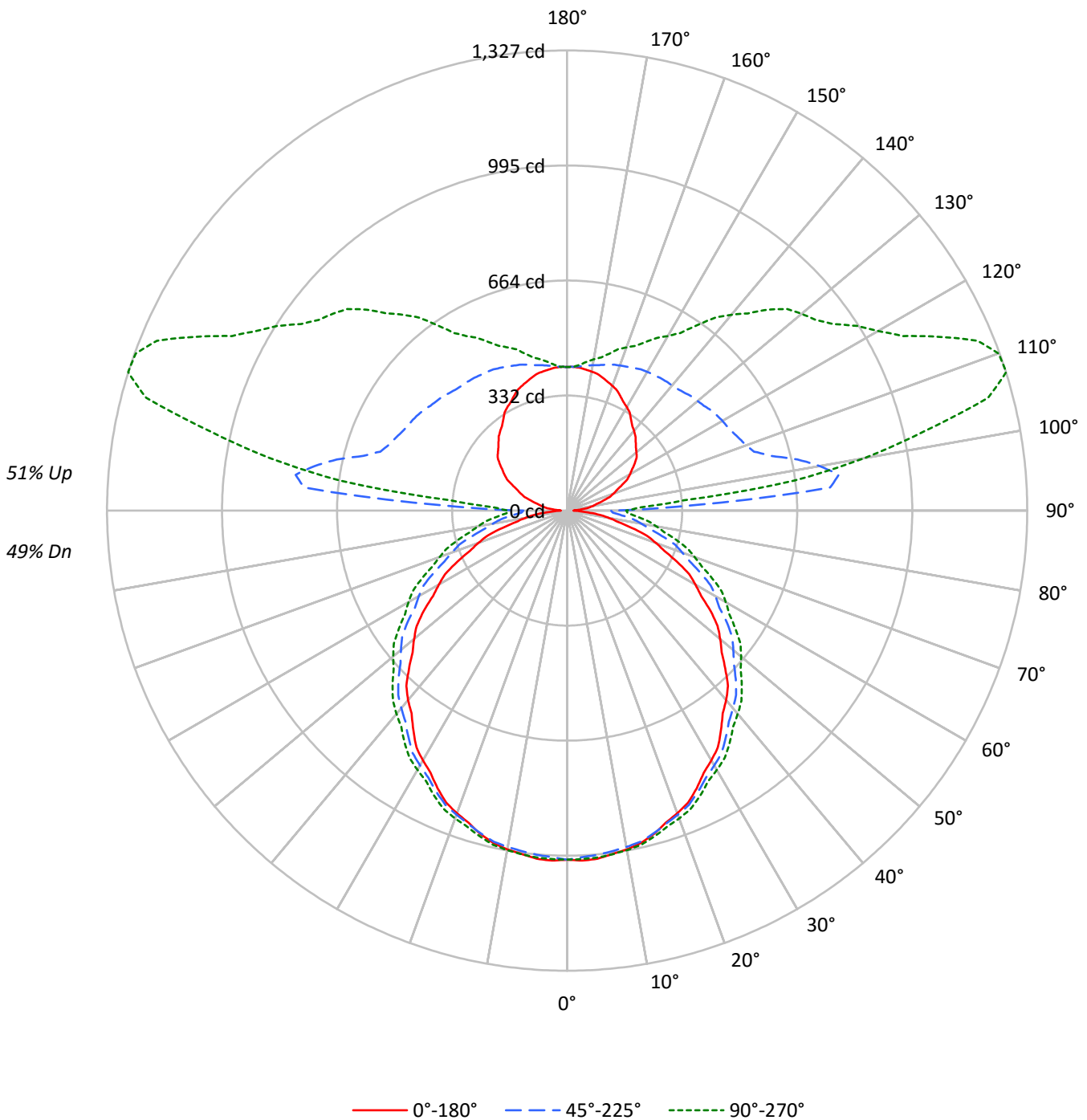
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332657-930

CATALOG NUMBER: S124DIP-S1020D1035U930-4F0-1E-UDD-D4

Luminous Intensity Polar Plot





TEST NUMBER: P332657-930

CATALOG NUMBER: S124DIP-S1020D1035U930-4F0-1E-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 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 55 | 55 | 55 | 49 |
| 1 | 97 | 92 | 88 | 84 | 89 | 85 | 81 | 78 | 71 | 68 | 66 | 59 | 57 | 55 | 47 | 46 | 45 | 39 |
| 2 | 88 | 80 | 73 | 68 | 80 | 73 | 68 | 63 | 62 | 58 | 54 | 51 | 48 | 45 | 41 | 39 | 37 | 32 |
| 3 | 80 | 70 | 62 | 56 | 73 | 64 | 57 | 52 | 54 | 49 | 45 | 45 | 41 | 38 | 36 | 33 | 31 | 27 |
| 4 | 73 | 61 | 53 | 47 | 66 | 57 | 49 | 44 | 48 | 42 | 38 | 40 | 35 | 32 | 32 | 29 | 26 | 23 |
| 5 | 67 | 55 | 46 | 40 | 61 | 50 | 43 | 37 | 43 | 37 | 32 | 35 | 31 | 28 | 29 | 25 | 23 | 19 |
| 6 | 61 | 49 | 40 | 34 | 56 | 45 | 38 | 32 | 38 | 32 | 28 | 32 | 27 | 24 | 26 | 23 | 20 | 17 |
| 7 | 57 | 44 | 36 | 30 | 52 | 41 | 33 | 28 | 35 | 29 | 25 | 29 | 24 | 21 | 24 | 20 | 18 | 15 |
| 8 | 52 | 40 | 32 | 26 | 48 | 37 | 30 | 25 | 32 | 26 | 22 | 26 | 22 | 19 | 22 | 18 | 16 | 13 |
| 9 | 49 | 36 | 29 | 23 | 45 | 34 | 27 | 22 | 29 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 14 | 12 |
| 10 | 46 | 33 | 26 | 21 | 42 | 31 | 24 | 20 | 27 | 21 | 17 | 22 | 18 | 15 | 19 | 15 | 13 | 11 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 8127 | 8127 | 8127 |
| 5° | 8151 | 7942 | 7965 |
| 10° | 8102 | 7812 | 7807 |
| 15° | 8029 | 7662 | 7620 |
| 20° | 7920 | 7496 | 7438 |
| 25° | 7797 | 7310 | 7239 |
| 30° | 7663 | 7125 | 7034 |
| 35° | 7511 | 6935 | 6855 |
| 40° | 7390 | 6755 | 6667 |
| 45° | 7210 | 6588 | 6507 |
| 50° | 7059 | 6397 | 6337 |
| 55° | 6902 | 6217 | 6138 |
| 60° | 6657 | 5986 | 5956 |
| 65° | 6389 | 5740 | 5734 |
| 70° | 6066 | 5458 | 5474 |
| 75° | 5612 | 5146 | 5239 |
| 80° | 5110 | 4847 | 5007 |
| 85° | 4474 | 4583 | 4872 |



TEST NUMBER: P332657-930

CATALOG NUMBER: S124DIP-S1020D1035U930-4F0-1E-UDD-D4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 95.3 | 1.5 |
| 10°-20° | 273.1 | 4.2 |
| 20°-30° | 413.0 | 6.4 |
| 30°-40° | 499.7 | 7.8 |
| 40°-50° | 528.2 | 8.2 |
| 50°-60° | 497.1 | 7.7 |
| 60°-70° | 412.5 | 6.4 |
| 70°-80° | 289.7 | 4.5 |
| 80°-90° | 166.1 | 2.6 |
| 90°-100° | 396.5 | 6.2 |
| 100°-110° | 694.8 | 10.8 |
| 110°-120° | 606.1 | 9.4 |
| 120°-130° | 496.5 | 7.7 |
| 130°-140° | 403.0 | 6.3 |
| 140°-150° | 301.3 | 4.7 |
| 150°-160° | 210.1 | 3.3 |
| 160°-170° | 123.6 | 1.9 |
| 170°-180° | 40.2 | 0.6 |
| 0°-30° | 781.4 | 12.1 |
| 0°-40° | 1281.1 | 19.9 |
| 0°-60° | 2306.5 | 35.8 |
| 0°-90° | 3174.7 | 49.2 |
| 90°-120° | 1697.4 | 26.3 |
| 90°-150° | 2898.2 | 45.0 |
| 90°-180° | 3272.0 | 50.8 |
| 0°-180° | 6446.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1007 | 1007 | 1007 | 1007 | 1007 | |
| 5° | 1008 | 1004 | 996 | 1005 | 1004 | 96 |
| 15° | 966 | 967 | 964 | 973 | 973 | 272 |
| 25° | 884 | 890 | 894 | 906 | 907 | 407 |
| 35° | 773 | 787 | 798 | 813 | 817 | 484 |
| 45° | 645 | 666 | 688 | 706 | 712 | 498 |
| 55° | 505 | 529 | 562 | 584 | 592 | 450 |
| 65° | 349 | 386 | 424 | 451 | 461 | 346 |
| 75° | 194 | 236 | 283 | 313 | 325 | 206 |
| 85° | 60 | 107 | 158 | 190 | 203 | 64 |
| 90° | 19 | 70 | 126 | 159 | 170 | 13 |
| 95° | 42 | 137 | 761 | 456 | 337 | 42 |
| 105° | 105 | 172 | 608 | 1251 | 1257 | 113 |
| 115° | 174 | 229 | 529 | 992 | 1185 | 173 |
| 125° | 238 | 283 | 505 | 831 | 937 | 212 |
| 135° | 280 | 333 | 480 | 719 | 820 | 217 |
| 145° | 321 | 366 | 467 | 589 | 652 | 202 |
| 155° | 364 | 393 | 454 | 514 | 536 | 168 |
| 165° | 396 | 409 | 436 | 461 | 468 | 112 |
| 175° | 413 | 414 | 418 | 423 | 422 | 39 |
| 180° | 414 | 414 | 414 | 414 | 414 | |



TEST NUMBER: P332657-930

CATALOG NUMBER: S124DIP-S1020D1035U930-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1006.7 | 1006.7 | 1006.7 | 1006.7 | 1006.7 | 1006.7 | 1006.7 | 1006.7 | 1006.7 | 1006.7 | 1006.7 |
| 2.5° | 1010.2 | 1009.7 | 1009.0 | 1008.4 | 1007.8 | 1006.7 | 1005.1 | 1003.6 | 1001.9 | 1000.3 | 1001.7 |
| 5° | 1007.7 | 1007.0 | 1006.2 | 1005.5 | 1004.8 | 1003.5 | 1001.8 | 1000.0 | 998.3 | 996.5 | 998.5 |
| 7.5° | 999.1 | 998.7 | 998.3 | 997.8 | 997.4 | 996.5 | 995.0 | 993.5 | 992.1 | 990.6 | 992.9 |
| 10° | 992.0 | 991.7 | 991.5 | 991.2 | 991.0 | 990.2 | 989.0 | 987.7 | 986.4 | 985.2 | 987.5 |
| 12.5° | 982.0 | 982.0 | 981.9 | 981.9 | 981.9 | 981.4 | 980.6 | 979.7 | 978.8 | 978.0 | 980.1 |
| 15° | 966.0 | 966.3 | 966.5 | 966.8 | 967.0 | 966.8 | 966.0 | 965.3 | 964.5 | 963.8 | 966.0 |
| 17.5° | 944.2 | 944.9 | 945.7 | 946.4 | 947.2 | 947.5 | 947.3 | 947.2 | 947.1 | 946.9 | 949.2 |
| 20° | 928.9 | 929.6 | 930.3 | 931.1 | 931.9 | 932.4 | 932.6 | 932.9 | 933.1 | 933.4 | 935.9 |
| 22.5° | 911.7 | 912.6 | 913.6 | 914.6 | 915.5 | 916.2 | 916.6 | 917.1 | 917.5 | 918.0 | 920.6 |
| 25° | 883.8 | 885.3 | 886.7 | 888.3 | 889.7 | 890.9 | 891.6 | 892.4 | 893.2 | 893.9 | 896.7 |
| 27.5° | 852.6 | 854.8 | 857.0 | 859.2 | 861.4 | 863.2 | 864.3 | 865.4 | 866.6 | 867.7 | 870.3 |
| 30° | 831.9 | 833.9 | 835.9 | 837.9 | 839.9 | 841.8 | 843.5 | 845.3 | 847.0 | 848.8 | 851.6 |
| 32.5° | 809.3 | 811.8 | 814.2 | 816.6 | 819.0 | 821.2 | 823.1 | 825.1 | 827.0 | 829.0 | 832.1 |
| 35° | 773.3 | 776.3 | 779.3 | 782.3 | 785.3 | 788.1 | 790.6 | 793.0 | 795.6 | 798.1 | 801.6 |
| 37.5° | 736.9 | 740.5 | 743.9 | 747.4 | 750.8 | 754.1 | 757.2 | 760.3 | 763.4 | 766.5 | 770.1 |
| 40° | 713.5 | 716.8 | 720.1 | 723.3 | 726.6 | 729.9 | 733.4 | 736.9 | 740.5 | 744.0 | 747.7 |
| 42.5° | 686.5 | 690.2 | 693.8 | 697.5 | 701.1 | 705.0 | 709.1 | 713.2 | 717.3 | 721.5 | 725.6 |
| 45° | 644.7 | 649.5 | 654.3 | 659.1 | 663.8 | 668.5 | 673.4 | 678.1 | 682.8 | 687.6 | 691.9 |
| 47.5° | 604.9 | 609.8 | 614.7 | 619.6 | 624.5 | 629.7 | 635.2 | 640.7 | 646.3 | 651.8 | 656.2 |
| 50° | 576.0 | 581.6 | 587.0 | 592.6 | 598.0 | 603.6 | 609.1 | 614.6 | 620.1 | 625.6 | 630.6 |
| 52.5° | 547.1 | 552.7 | 558.2 | 563.7 | 569.2 | 575.1 | 581.4 | 587.7 | 594.0 | 600.4 | 605.4 |
| 55° | 505.0 | 510.3 | 515.5 | 520.8 | 526.0 | 532.4 | 540.0 | 547.5 | 555.0 | 562.5 | 567.5 |
| 57.5° | 457.9 | 464.4 | 470.9 | 477.4 | 484.0 | 490.9 | 498.4 | 505.9 | 513.3 | 520.8 | 526.8 |
| 60° | 427.2 | 433.7 | 440.3 | 446.8 | 453.3 | 460.6 | 469.0 | 477.2 | 485.4 | 493.7 | 499.5 |
| 62.5° | 397.5 | 404.6 | 411.7 | 418.8 | 425.9 | 433.6 | 441.9 | 450.1 | 458.4 | 466.7 | 472.5 |
| 65° | 349.4 | 357.4 | 365.5 | 373.5 | 381.5 | 389.8 | 398.3 | 406.8 | 415.3 | 423.9 | 430.1 |
| 67.5° | 303.2 | 311.8 | 320.2 | 328.8 | 337.3 | 346.1 | 355.2 | 364.4 | 373.5 | 382.6 | 389.0 |
| 70° | 271.7 | 280.2 | 288.7 | 297.2 | 305.7 | 314.8 | 324.2 | 333.8 | 343.3 | 352.9 | 359.6 |
| 72.5° | 241.0 | 249.7 | 258.4 | 267.2 | 275.9 | 285.3 | 295.4 | 305.5 | 315.7 | 325.8 | 332.3 |
| 75° | 193.9 | 203.2 | 212.4 | 221.7 | 231.0 | 240.8 | 251.4 | 261.9 | 272.4 | 282.9 | 289.9 |
| 77.5° | 149.9 | 159.7 | 169.6 | 179.4 | 189.2 | 199.6 | 210.7 | 221.7 | 232.7 | 243.7 | 250.8 |
| 80° | 122.9 | 132.9 | 142.9 | 153.0 | 163.0 | 173.5 | 184.5 | 195.5 | 206.5 | 217.5 | 225.1 |
| 82.5° | 95.8 | 106.2 | 116.7 | 127.1 | 137.5 | 148.2 | 159.2 | 170.2 | 181.3 | 192.3 | 200.0 |
| 85° | 59.8 | 70.3 | 80.8 | 91.3 | 101.8 | 112.8 | 124.0 | 135.3 | 146.5 | 157.8 | 165.3 |
| 87.5° | 33.5 | 44.1 | 54.8 | 65.1 | 75.6 | 86.2 | 98.1 | 109.1 | 120.3 | 131.7 | 138.8 |
| 90° | 18.8 | 30.5 | 43.0 | 53.8 | 64.7 | 75.0 | 90.7 | 101.4 | 113.8 | 126.2 | 132.7 |
| 92.5° | 26.4 | 39.6 | 56.3 | 75.3 | 96.2 | 123.0 | 175.1 | 249.1 | 321.4 | 364.4 | 328.3 |
| 95° | 41.5 | 52.3 | 68.6 | 87.5 | 115.3 | 158.7 | 239.8 | 383.6 | 588.4 | 761.4 | 786.9 |
| 97.5° | 61.5 | 68.6 | 82.8 | 99.6 | 123.4 | 160.8 | 225.4 | 345.8 | 549.4 | 789.8 | 954.6 |
| 100° | 74.3 | 80.8 | 92.9 | 109.3 | 131.3 | 165.4 | 223.2 | 325.0 | 500.8 | 740.0 | 955.2 |
| 102.5° | 87.3 | 94.3 | 105.1 | 119.8 | 140.4 | 172.8 | 225.8 | 316.3 | 467.2 | 680.2 | 901.6 |
| 105° | 105.3 | 112.8 | 121.9 | 136.6 | 156.4 | 187.1 | 235.5 | 312.3 | 435.5 | 608.3 | 805.8 |
| 107.5° | 127.6 | 133.4 | 141.5 | 156.0 | 174.1 | 203.9 | 248.4 | 318.8 | 424.9 | 565.3 | 727.6 |
| 110° | 141.7 | 146.8 | 154.4 | 167.7 | 185.8 | 213.9 | 258.5 | 324.2 | 422.6 | 549.3 | 687.8 |



TEST NUMBER: P332657-930

CATALOG NUMBER: S124DIP-S1020D1035U930-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 155.1 | 159.9 | 167.7 | 179.9 | 197.6 | 225.3 | 268.2 | 330.4 | 422.3 | 539.0 | 662.9 |
| 115° | 174.4 | 179.1 | 187.1 | 197.5 | 215.2 | 242.3 | 282.9 | 339.7 | 423.5 | 529.1 | 637.2 |
| 117.5° | 195.7 | 199.3 | 205.7 | 216.1 | 231.9 | 259.1 | 297.5 | 349.8 | 425.2 | 521.5 | 621.7 |
| 120° | 209.1 | 211.5 | 217.9 | 227.6 | 242.2 | 269.0 | 307.2 | 356.9 | 426.7 | 517.1 | 612.4 |
| 122.5° | 222.2 | 223.9 | 229.8 | 238.2 | 253.5 | 279.2 | 316.9 | 363.5 | 428.5 | 511.8 | 602.7 |
| 125° | 238.1 | 241.1 | 245.7 | 254.5 | 269.6 | 295.5 | 331.0 | 374.7 | 432.3 | 505.2 | 588.2 |
| 127.5° | 253.0 | 255.4 | 261.0 | 271.0 | 286.8 | 312.1 | 345.2 | 384.4 | 434.0 | 496.7 | 569.6 |
| 130° | 260.6 | 263.6 | 269.9 | 281.8 | 297.0 | 322.5 | 354.2 | 390.0 | 435.5 | 491.5 | 557.9 |
| 132.5° | 269.0 | 271.4 | 279.6 | 290.9 | 307.4 | 331.3 | 362.1 | 396.4 | 437.2 | 487.3 | 547.6 |
| 135° | 279.8 | 283.1 | 291.2 | 305.0 | 322.1 | 344.1 | 372.8 | 403.8 | 439.0 | 479.8 | 531.0 |
| 137.5° | 291.7 | 294.6 | 303.2 | 316.2 | 333.6 | 354.2 | 380.1 | 408.3 | 438.7 | 474.4 | 517.0 |
| 140° | 300.1 | 302.3 | 311.0 | 324.7 | 341.4 | 361.0 | 385.6 | 412.0 | 439.9 | 471.1 | 509.3 |
| 142.5° | 308.3 | 310.8 | 319.0 | 332.2 | 348.5 | 367.3 | 390.9 | 414.9 | 441.1 | 469.3 | 503.2 |
| 145° | 321.0 | 323.2 | 331.1 | 342.3 | 357.4 | 375.2 | 396.4 | 418.3 | 442.0 | 467.2 | 494.7 |
| 147.5° | 335.5 | 336.1 | 343.0 | 354.4 | 367.0 | 383.0 | 402.9 | 422.1 | 442.8 | 464.2 | 487.4 |
| 150° | 344.6 | 345.2 | 351.4 | 360.9 | 372.9 | 388.2 | 406.2 | 424.0 | 442.8 | 462.3 | 482.7 |
| 152.5° | 352.1 | 352.3 | 358.7 | 367.8 | 378.6 | 392.8 | 408.8 | 425.3 | 441.5 | 459.0 | 477.4 |
| 155° | 363.8 | 364.6 | 369.5 | 377.6 | 386.6 | 398.8 | 412.6 | 426.5 | 439.5 | 454.2 | 469.6 |
| 157.5° | 375.4 | 375.4 | 379.9 | 386.3 | 394.1 | 403.7 | 415.4 | 426.5 | 437.4 | 449.1 | 461.6 |
| 160° | 382.5 | 382.5 | 385.8 | 391.5 | 398.0 | 407.0 | 416.7 | 426.5 | 435.5 | 445.2 | 455.8 |
| 162.5° | 389.1 | 388.4 | 391.0 | 396.1 | 401.9 | 409.0 | 418.0 | 426.5 | 433.5 | 441.3 | 450.6 |
| 165° | 396.4 | 396.4 | 398.0 | 402.1 | 406.2 | 411.0 | 418.3 | 424.9 | 429.7 | 435.5 | 442.0 |
| 167.5° | 403.7 | 402.9 | 403.7 | 406.8 | 409.1 | 412.8 | 418.2 | 422.9 | 425.8 | 429.6 | 434.1 |
| 170° | 407.0 | 406.2 | 407.0 | 409.4 | 411.0 | 413.4 | 417.5 | 421.6 | 423.2 | 425.7 | 428.9 |
| 172.5° | 410.2 | 409.4 | 409.5 | 411.3 | 412.3 | 414.1 | 416.9 | 420.3 | 420.6 | 421.8 | 424.4 |
| 175° | 413.4 | 412.6 | 412.6 | 413.4 | 414.3 | 414.3 | 415.9 | 418.3 | 417.5 | 417.5 | 419.1 |
| 177.5° | 414.9 | 414.3 | 413.6 | 414.3 | 414.3 | 414.3 | 414.9 | 416.2 | 414.9 | 414.9 | 415.6 |
| 180° | 414.3 | 414.3 | 414.3 | 414.3 | 414.3 | 414.3 | 414.3 | 414.3 | 414.3 | 414.3 | 414.3 |



TEST NUMBER: P332657-930

CATALOG NUMBER: S124DIP-S1020D1035U930-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1006.7 | 1006.7 | 1006.7 | 1006.7 | 1006.7 | 1006.7 | 1006.7 | 1006.7 |
| 2.5° | 1003.1 | 1004.5 | 1005.9 | 1006.5 | 1006.3 | 1006.1 | 1005.9 | 1005.8 |
| 5° | 1000.5 | 1002.5 | 1004.5 | 1005.3 | 1005.1 | 1004.9 | 1004.6 | 1004.4 |
| 7.5° | 995.2 | 997.4 | 999.6 | 1000.6 | 1000.4 | 1000.1 | 999.9 | 999.6 |
| 10° | 989.7 | 992.0 | 994.3 | 995.2 | 995.0 | 994.7 | 994.5 | 994.3 |
| 12.5° | 982.1 | 984.1 | 986.2 | 987.2 | 987.2 | 987.1 | 987.1 | 987.0 |
| 15° | 968.3 | 970.5 | 972.8 | 973.8 | 973.5 | 973.3 | 973.1 | 972.8 |
| 17.5° | 951.5 | 953.8 | 956.1 | 957.2 | 956.9 | 956.8 | 956.5 | 956.3 |
| 20° | 938.3 | 940.9 | 943.4 | 944.6 | 944.6 | 944.6 | 944.6 | 944.6 |
| 22.5° | 923.0 | 925.5 | 928.1 | 929.5 | 929.9 | 930.3 | 930.7 | 931.1 |
| 25° | 899.4 | 902.1 | 904.9 | 906.4 | 906.7 | 906.9 | 907.2 | 907.4 |
| 27.5° | 872.9 | 875.4 | 878.0 | 879.4 | 879.7 | 880.0 | 880.3 | 880.6 |
| 30° | 854.4 | 857.0 | 859.8 | 861.4 | 861.9 | 862.4 | 863.0 | 863.5 |
| 32.5° | 835.3 | 838.5 | 841.6 | 843.4 | 843.9 | 844.4 | 844.9 | 845.5 |
| 35° | 805.1 | 808.6 | 812.1 | 814.2 | 815.0 | 815.7 | 816.5 | 817.3 |
| 37.5° | 773.6 | 777.2 | 780.7 | 782.9 | 783.7 | 784.6 | 785.3 | 786.1 |
| 40° | 751.5 | 755.2 | 759.0 | 761.4 | 762.4 | 763.4 | 764.4 | 765.4 |
| 42.5° | 729.8 | 733.9 | 738.1 | 740.5 | 741.4 | 742.2 | 743.0 | 743.7 |
| 45° | 696.1 | 700.4 | 704.7 | 707.4 | 708.7 | 709.9 | 711.2 | 712.4 |
| 47.5° | 660.6 | 665.0 | 669.4 | 672.4 | 673.8 | 675.4 | 676.9 | 678.4 |
| 50° | 635.6 | 640.7 | 645.6 | 648.9 | 650.4 | 651.9 | 653.4 | 654.9 |
| 52.5° | 610.4 | 615.4 | 620.4 | 623.6 | 625.2 | 626.6 | 628.2 | 629.7 |
| 55° | 572.5 | 577.6 | 582.5 | 585.8 | 587.3 | 588.8 | 590.3 | 591.8 |
| 57.5° | 532.7 | 538.7 | 544.6 | 548.3 | 549.7 | 551.1 | 552.5 | 553.9 |
| 60° | 505.2 | 511.0 | 516.7 | 520.7 | 522.7 | 524.6 | 526.7 | 528.6 |
| 62.5° | 478.2 | 484.0 | 489.8 | 493.6 | 495.6 | 497.6 | 499.6 | 501.7 |
| 65° | 436.3 | 442.6 | 448.9 | 453.1 | 455.0 | 457.1 | 459.0 | 461.1 |
| 67.5° | 395.3 | 401.7 | 408.1 | 412.2 | 414.2 | 416.1 | 418.1 | 420.0 |
| 70° | 366.3 | 373.1 | 379.8 | 384.2 | 385.9 | 387.7 | 389.4 | 391.2 |
| 72.5° | 338.9 | 345.4 | 352.0 | 356.3 | 358.2 | 360.2 | 362.2 | 364.1 |
| 75° | 296.9 | 303.9 | 311.0 | 315.6 | 317.9 | 320.2 | 322.4 | 324.7 |
| 77.5° | 258.0 | 265.1 | 272.1 | 277.0 | 279.3 | 281.8 | 284.1 | 286.6 |
| 80° | 232.6 | 240.1 | 247.6 | 252.3 | 254.4 | 256.4 | 258.4 | 260.4 |
| 82.5° | 207.7 | 215.5 | 223.1 | 228.1 | 230.3 | 232.5 | 234.7 | 236.9 |
| 85° | 172.8 | 180.3 | 187.8 | 192.9 | 195.4 | 197.9 | 200.4 | 202.9 |
| 87.5° | 146.2 | 153.6 | 161.0 | 165.8 | 168.1 | 170.5 | 172.5 | 174.7 |
| 90° | 140.8 | 148.9 | 156.9 | 161.6 | 164.4 | 167.2 | 168.4 | 170.4 |
| 92.5° | 280.1 | 247.7 | 230.2 | 218.4 | 210.8 | 208.4 | 207.7 | 209.7 |
| 95° | 714.7 | 595.3 | 493.0 | 418.6 | 380.9 | 358.0 | 345.6 | 337.2 |
| 97.5° | 995.3 | 955.0 | 881.9 | 801.3 | 745.0 | 698.2 | 675.9 | 661.1 |
| 100° | 1080.8 | 1103.8 | 1070.7 | 1014.7 | 945.7 | 897.8 | 875.1 | 870.3 |
| 102.5° | 1071.3 | 1158.6 | 1176.7 | 1155.9 | 1114.4 | 1080.4 | 1056.6 | 1053.4 |
| 105° | 998.5 | 1145.6 | 1232.4 | 1269.9 | 1273.6 | 1269.1 | 1259.6 | 1256.8 |
| 107.5° | 898.8 | 1054.9 | 1174.5 | 1251.2 | 1293.1 | 1313.5 | 1323.5 | 1327.4 |
| 110° | 838.5 | 985.0 | 1108.8 | 1202.2 | 1262.0 | 1298.2 | 1314.8 | 1324.1 |



TEST NUMBER: P332657-930

CATALOG NUMBER: S124DIP-S1020D1035U930-4F0-1E-UDD-D4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| 112.5° | 792.5 | 922.6 | 1039.7 | 1132.9 | 1200.5 | 1243.9 | 1266.4 | 1280.3 |
| 115° | 744.4 | 850.0 | 950.8 | 1032.6 | 1098.6 | 1149.2 | 1177.0 | 1185.3 |
| 117.5° | 716.9 | 804.9 | 885.1 | 954.9 | 1011.8 | 1054.8 | 1083.2 | 1090.2 |
| 120° | 702.9 | 783.6 | 853.7 | 915.0 | 963.4 | 1001.2 | 1024.3 | 1035.3 |
| 122.5° | 690.6 | 768.7 | 832.9 | 887.0 | 928.0 | 960.3 | 980.1 | 990.8 |
| 125° | 671.1 | 745.8 | 806.7 | 854.6 | 888.7 | 913.8 | 930.7 | 937.2 |
| 127.5° | 647.5 | 718.9 | 779.4 | 825.0 | 859.5 | 882.2 | 896.9 | 903.4 |
| 130° | 630.0 | 698.8 | 758.6 | 804.8 | 839.7 | 861.5 | 876.0 | 882.4 |
| 132.5° | 612.3 | 677.0 | 735.3 | 781.4 | 815.6 | 840.1 | 853.9 | 860.3 |
| 135° | 586.3 | 643.2 | 696.8 | 740.3 | 774.4 | 798.7 | 813.2 | 819.5 |
| 137.5° | 563.3 | 611.7 | 657.2 | 696.4 | 728.1 | 751.9 | 763.9 | 770.9 |
| 140° | 550.0 | 591.5 | 631.4 | 667.9 | 697.6 | 716.7 | 729.4 | 737.2 |
| 142.5° | 538.3 | 574.9 | 609.1 | 640.7 | 667.0 | 684.7 | 695.8 | 701.4 |
| 145° | 522.3 | 551.5 | 577.4 | 601.4 | 622.8 | 637.6 | 646.8 | 651.8 |
| 147.5° | 509.1 | 531.2 | 551.0 | 569.4 | 585.2 | 597.9 | 604.9 | 607.2 |
| 150° | 502.2 | 520.9 | 537.2 | 551.9 | 564.8 | 575.4 | 580.3 | 581.1 |
| 152.5° | 495.0 | 511.1 | 526.1 | 538.2 | 549.3 | 557.8 | 560.8 | 561.6 |
| 155° | 484.3 | 497.3 | 509.5 | 519.3 | 527.4 | 533.9 | 536.4 | 536.4 |
| 157.5° | 472.7 | 483.6 | 493.9 | 501.7 | 507.8 | 512.7 | 514.2 | 514.2 |
| 160° | 465.5 | 474.5 | 483.5 | 490.0 | 494.9 | 499.8 | 500.6 | 500.6 |
| 162.5° | 458.4 | 466.0 | 473.0 | 478.9 | 482.5 | 487.4 | 488.2 | 487.5 |
| 165° | 448.5 | 453.4 | 459.0 | 463.1 | 466.4 | 469.6 | 468.8 | 468.0 |
| 167.5° | 438.9 | 442.6 | 447.2 | 449.6 | 451.3 | 453.4 | 453.2 | 452.6 |
| 170° | 433.0 | 435.5 | 438.7 | 441.2 | 442.8 | 443.6 | 442.8 | 442.8 |
| 172.5° | 427.8 | 429.6 | 431.5 | 433.3 | 434.3 | 435.1 | 434.3 | 433.0 |
| 175° | 420.8 | 421.6 | 423.2 | 423.2 | 423.2 | 424.9 | 423.2 | 421.6 |
| 177.5° | 416.2 | 416.9 | 416.9 | 417.5 | 416.9 | 417.5 | 416.2 | 414.9 |
| 180° | 414.3 | 414.3 | 414.3 | 414.3 | 414.3 | 414.3 | 414.3 | 414.3 |

(END OF REPORT)