

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: P332551

Luminaire Tested: **S124DIP-S575D590U835-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332551
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIP-S575D590U835-4F0-1E-UDD-F1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 575 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 590 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

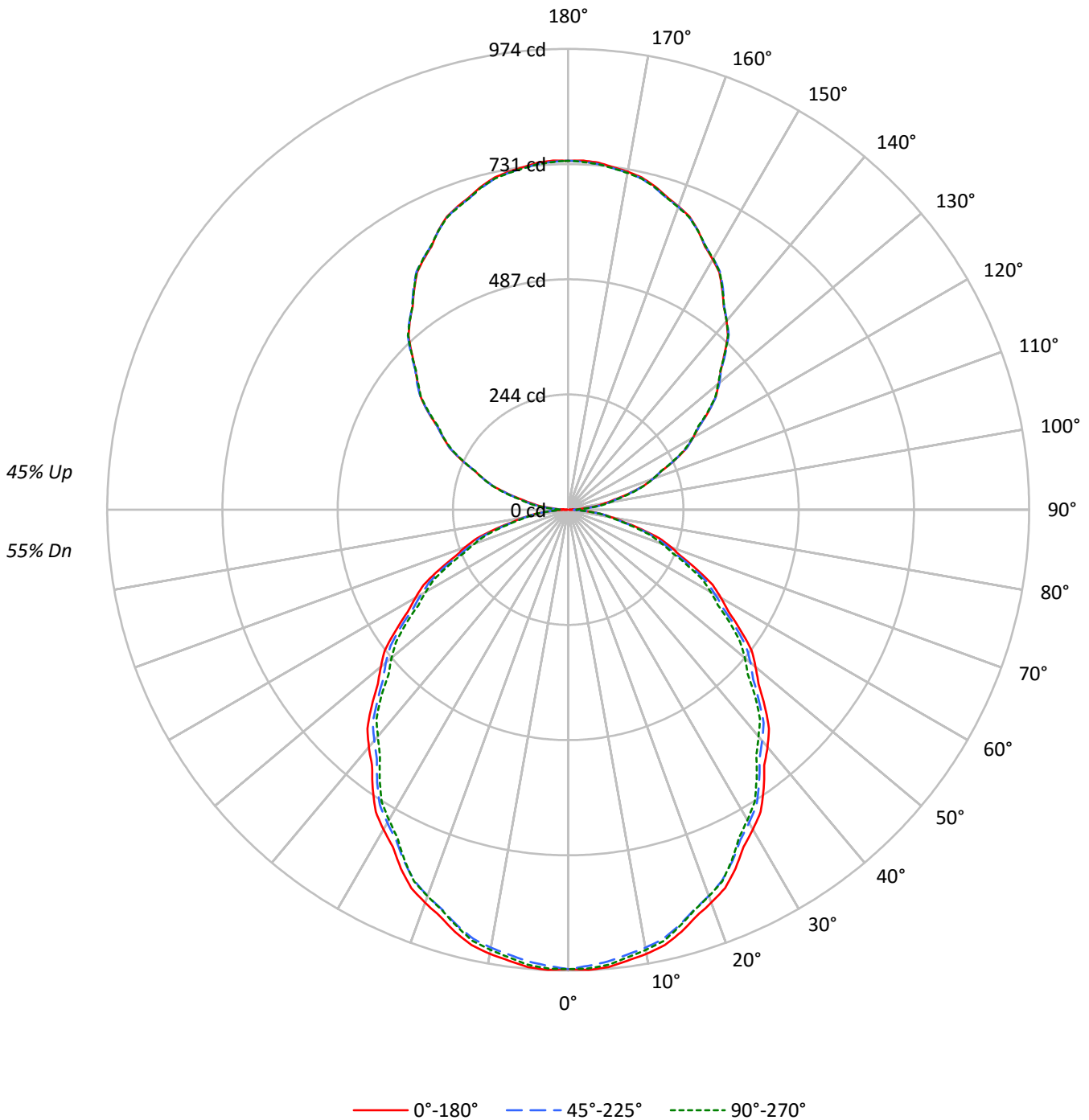
Lumens per Lamp: N/A
Luminaire Lumens: 4540.3 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 32.8
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: P332551
CATALOG NUMBER: S124DIP-S575D590U835-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332551

CATALOG NUMBER: S124DIP-S575D590U835-4F0-1E-UDD-F1

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 | 108 | 108 | 108 | 108 | 101 | 101 | 101 | 101 | 86 | 86 | 86 | 73 | 73 | 73 | 61 | 61 | 61 | 55 |
| 1 | 99 | 94 | 91 | 87 | 92 | 88 | 84 | 81 | 75 | 73 | 71 | 64 | 62 | 61 | 54 | 52 | 51 | 46 |
| 2 | 90 | 82 | 76 | 71 | 83 | 77 | 71 | 67 | 66 | 62 | 58 | 56 | 53 | 51 | 47 | 45 | 43 | 39 |
| 3 | 82 | 73 | 65 | 59 | 76 | 68 | 61 | 56 | 58 | 53 | 49 | 50 | 46 | 43 | 42 | 39 | 37 | 33 |
| 4 | 75 | 64 | 56 | 50 | 69 | 60 | 53 | 47 | 52 | 46 | 42 | 44 | 40 | 37 | 37 | 34 | 32 | 28 |
| 5 | 69 | 57 | 49 | 43 | 64 | 53 | 46 | 41 | 46 | 41 | 36 | 40 | 35 | 32 | 34 | 30 | 28 | 24 |
| 6 | 64 | 51 | 43 | 37 | 59 | 48 | 41 | 35 | 42 | 36 | 32 | 36 | 31 | 28 | 31 | 27 | 24 | 21 |
| 7 | 59 | 46 | 38 | 33 | 54 | 43 | 36 | 31 | 38 | 32 | 28 | 33 | 28 | 25 | 28 | 24 | 22 | 19 |
| 8 | 55 | 42 | 34 | 29 | 51 | 40 | 32 | 28 | 35 | 29 | 25 | 30 | 25 | 22 | 26 | 22 | 19 | 17 |
| 9 | 51 | 39 | 31 | 26 | 47 | 36 | 29 | 25 | 32 | 26 | 22 | 28 | 23 | 20 | 24 | 20 | 17 | 15 |
| 10 | 48 | 35 | 28 | 23 | 44 | 33 | 27 | 22 | 29 | 24 | 20 | 26 | 21 | 18 | 22 | 18 | 16 | 14 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 7840 | 7840 | 7840 |
| 5° | 7864 | 7769 | 7826 |
| 10° | 7814 | 7706 | 7744 |
| 15° | 7720 | 7596 | 7616 |
| 20° | 7594 | 7460 | 7467 |
| 25° | 7451 | 7306 | 7285 |
| 30° | 7276 | 7124 | 7058 |
| 35° | 7094 | 6933 | 6841 |
| 40° | 6905 | 6716 | 6593 |
| 45° | 6707 | 6503 | 6379 |
| 50° | 6489 | 6314 | 6118 |
| 55° | 6253 | 6068 | 5871 |
| 60° | 6018 | 5792 | 5616 |
| 65° | 5752 | 5530 | 5307 |
| 70° | 5455 | 5179 | 4978 |
| 75° | 5000 | 4757 | 4635 |
| 80° | 4449 | 4268 | 4161 |
| 85° | 3890 | 3751 | 3677 |



TEST NUMBER: P332551

CATALOG NUMBER: S124DIP-S575D590U835-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 91.5 | 2.0 |
| 10°-20° | 257.7 | 5.7 |
| 20°-30° | 379.3 | 8.4 |
| 30°-40° | 440.9 | 9.7 |
| 40°-50° | 440.9 | 9.7 |
| 50°-60° | 385.7 | 8.5 |
| 60°-70° | 286.4 | 6.3 |
| 70°-80° | 162.7 | 3.6 |
| 80°-90° | 49.2 | 1.1 |
| 90°-100° | 48.6 | 1.1 |
| 100°-110° | 144.1 | 3.2 |
| 110°-120° | 244.6 | 5.4 |
| 120°-130° | 322.5 | 7.1 |
| 130°-140° | 362.2 | 8.0 |
| 140°-150° | 355.9 | 7.8 |
| 150°-160° | 299.3 | 6.6 |
| 160°-170° | 199.1 | 4.4 |
| 170°-180° | 69.7 | 1.5 |
| 0°-30° | 728.4 | 16.0 |
| 0°-40° | 1169.3 | 25.8 |
| 0°-60° | 1996.0 | 44.0 |
| 0°-90° | 2494.3 | 54.9 |
| 90°-120° | 437.3 | 9.6 |
| 90°-150° | 1477.8 | 32.5 |
| 90°-180° | 2046.0 | 45.1 |
| 0°-180° | 4540.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 971 | 971 | 971 | 971 | 971 | |
| 5° | 970 | 967 | 959 | 967 | 966 | 92 |
| 15° | 924 | 920 | 909 | 913 | 911 | 260 |
| 25° | 836 | 831 | 820 | 821 | 818 | 385 |
| 35° | 720 | 714 | 704 | 698 | 694 | 450 |
| 45° | 588 | 582 | 570 | 561 | 559 | 453 |
| 55° | 444 | 442 | 431 | 422 | 417 | 398 |
| 65° | 301 | 297 | 290 | 282 | 278 | 298 |
| 75° | 160 | 156 | 152 | 150 | 149 | 170 |
| 85° | 42 | 42 | 40 | 40 | 40 | 46 |
| 90° | 2 | 8 | 12 | 16 | 17 | 4 |
| 95° | 34 | 39 | 43 | 45 | 45 | 38 |
| 105° | 133 | 134 | 136 | 137 | 139 | 141 |
| 115° | 249 | 249 | 248 | 247 | 246 | 245 |
| 125° | 362 | 362 | 362 | 360 | 359 | 323 |
| 135° | 467 | 470 | 470 | 469 | 468 | 361 |
| 145° | 568 | 570 | 570 | 570 | 568 | 355 |
| 155° | 650 | 650 | 650 | 652 | 650 | 299 |
| 165° | 708 | 706 | 705 | 708 | 706 | 199 |
| 175° | 736 | 734 | 733 | 736 | 733 | 70 |
| 180° | 738 | 738 | 738 | 738 | 738 | |



TEST NUMBER: P332551

CATALOG NUMBER: S124DIP-S575D590U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 971.1 | 971.1 | 971.1 | 971.1 | 971.1 | 971.1 | 971.1 | 971.1 | 971.1 | 971.1 | 971.1 |
| 2.5° | 973.6 | 973.2 | 972.8 | 972.4 | 972.0 | 971.0 | 969.5 | 968.0 | 966.4 | 964.9 | 966.3 |
| 5° | 970.4 | 969.7 | 969.0 | 968.3 | 967.6 | 966.3 | 964.4 | 962.5 | 960.6 | 958.7 | 960.6 |
| 7.5° | 961.3 | 960.6 | 960.0 | 959.3 | 958.6 | 957.2 | 955.1 | 953.0 | 950.8 | 948.7 | 950.3 |
| 10° | 953.2 | 952.6 | 951.9 | 951.2 | 950.5 | 949.0 | 946.8 | 944.5 | 942.3 | 940.0 | 941.4 |
| 12.5° | 942.7 | 942.0 | 941.3 | 940.6 | 939.9 | 938.4 | 936.0 | 933.6 | 931.2 | 928.8 | 930.3 |
| 15° | 923.7 | 923.0 | 922.3 | 921.6 | 920.9 | 919.3 | 916.7 | 914.1 | 911.5 | 908.9 | 909.9 |
| 17.5° | 900.8 | 899.9 | 899.1 | 898.2 | 897.3 | 895.7 | 893.2 | 890.8 | 888.3 | 885.9 | 886.5 |
| 20° | 884.0 | 883.1 | 882.3 | 881.4 | 880.5 | 878.8 | 876.2 | 873.6 | 871.0 | 868.4 | 868.9 |
| 22.5° | 865.9 | 864.8 | 863.7 | 862.5 | 861.4 | 859.5 | 856.9 | 854.3 | 851.7 | 849.1 | 850.1 |
| 25° | 836.5 | 835.3 | 834.1 | 832.9 | 831.7 | 829.9 | 827.4 | 825.0 | 822.6 | 820.2 | 820.4 |
| 27.5° | 802.9 | 801.7 | 800.4 | 799.2 | 797.9 | 796.2 | 793.9 | 791.7 | 789.4 | 787.2 | 786.8 |
| 30° | 780.5 | 779.1 | 777.7 | 776.3 | 775.0 | 773.1 | 770.9 | 768.6 | 766.4 | 764.2 | 763.5 |
| 32.5° | 756.8 | 755.6 | 754.3 | 753.1 | 751.9 | 750.0 | 747.7 | 745.3 | 742.9 | 740.5 | 739.7 |
| 35° | 719.8 | 718.6 | 717.4 | 716.2 | 715.0 | 713.1 | 710.7 | 708.3 | 705.9 | 703.5 | 702.2 |
| 37.5° | 680.7 | 679.6 | 678.5 | 677.4 | 676.3 | 674.5 | 671.9 | 669.3 | 666.7 | 664.1 | 662.8 |
| 40° | 655.2 | 653.8 | 652.4 | 651.1 | 649.7 | 647.7 | 645.1 | 642.5 | 639.9 | 637.3 | 635.6 |
| 42.5° | 627.8 | 627.0 | 626.2 | 625.3 | 624.5 | 622.6 | 619.8 | 616.9 | 614.0 | 611.2 | 609.2 |
| 45° | 587.5 | 586.3 | 585.1 | 583.9 | 582.7 | 580.7 | 577.9 | 575.1 | 572.4 | 569.6 | 567.7 |
| 47.5° | 545.3 | 544.5 | 543.7 | 542.8 | 542.0 | 540.3 | 537.8 | 535.2 | 532.6 | 530.1 | 527.9 |
| 50° | 516.7 | 516.0 | 515.3 | 514.6 | 513.9 | 512.4 | 510.0 | 507.5 | 505.1 | 502.7 | 500.3 |
| 52.5° | 488.7 | 487.9 | 487.0 | 486.2 | 485.4 | 483.7 | 481.1 | 478.6 | 476.0 | 473.4 | 471.3 |
| 55° | 444.3 | 443.8 | 443.3 | 442.8 | 442.3 | 440.8 | 438.4 | 435.9 | 433.5 | 431.1 | 429.0 |
| 57.5° | 402.0 | 401.4 | 400.8 | 400.2 | 399.6 | 398.2 | 395.8 | 393.4 | 391.0 | 388.6 | 386.6 |
| 60° | 372.7 | 371.9 | 371.0 | 370.1 | 369.3 | 367.7 | 365.5 | 363.2 | 361.0 | 358.7 | 357.2 |
| 62.5° | 344.1 | 343.4 | 342.6 | 341.9 | 341.2 | 339.6 | 337.3 | 334.9 | 332.5 | 330.1 | 328.7 |
| 65° | 301.1 | 300.3 | 299.4 | 298.6 | 297.7 | 296.4 | 294.7 | 292.9 | 291.2 | 289.5 | 287.7 |
| 67.5° | 257.9 | 257.1 | 256.3 | 255.5 | 254.7 | 253.5 | 251.8 | 250.2 | 248.5 | 246.8 | 245.2 |
| 70° | 231.1 | 229.9 | 228.7 | 227.5 | 226.3 | 225.0 | 223.6 | 222.2 | 220.8 | 219.4 | 218.1 |
| 72.5° | 202.5 | 201.3 | 200.1 | 198.8 | 197.6 | 196.5 | 195.4 | 194.3 | 193.2 | 192.0 | 190.9 |
| 75° | 160.3 | 159.4 | 158.6 | 157.7 | 156.8 | 156.0 | 155.1 | 154.2 | 153.4 | 152.5 | 151.8 |
| 77.5° | 120.0 | 119.6 | 119.2 | 118.9 | 118.5 | 117.9 | 117.1 | 116.4 | 115.6 | 114.9 | 114.6 |
| 80° | 95.7 | 95.2 | 94.7 | 94.2 | 93.6 | 93.2 | 92.9 | 92.5 | 92.2 | 91.8 | 91.5 |
| 82.5° | 72.1 | 71.8 | 71.6 | 71.3 | 71.1 | 70.9 | 70.9 | 70.8 | 70.7 | 70.7 | 70.4 |
| 85° | 42.0 | 42.0 | 42.0 | 42.0 | 42.0 | 41.8 | 41.5 | 41.2 | 40.8 | 40.5 | 40.5 |
| 87.5° | 16.5 | 16.7 | 16.8 | 16.9 | 17.1 | 17.2 | 17.3 | 17.3 | 17.4 | 17.5 | 17.6 |
| 90° | 1.7 | 3.1 | 4.5 | 5.9 | 7.3 | 8.5 | 9.5 | 10.5 | 11.5 | 12.5 | 13.3 |
| 92.5° | 12.2 | 13.8 | 15.4 | 17.0 | 18.6 | 19.7 | 20.5 | 21.2 | 21.9 | 22.6 | 23.0 |
| 95° | 34.2 | 35.4 | 36.5 | 37.6 | 38.8 | 39.8 | 40.7 | 41.6 | 42.5 | 43.3 | 43.7 |
| 97.5° | 59.8 | 60.7 | 61.6 | 62.5 | 63.4 | 64.4 | 65.4 | 66.5 | 67.5 | 68.6 | 69.0 |
| 100° | 79.8 | 80.4 | 80.9 | 81.4 | 81.9 | 82.7 | 83.8 | 85.0 | 86.1 | 87.3 | 87.5 |
| 102.5° | 100.8 | 101.0 | 101.2 | 101.4 | 101.6 | 102.3 | 103.3 | 104.3 | 105.4 | 106.4 | 106.8 |
| 105° | 132.9 | 133.0 | 133.1 | 133.3 | 133.4 | 133.7 | 134.2 | 134.7 | 135.2 | 135.7 | 136.1 |
| 107.5° | 166.5 | 166.7 | 166.8 | 167.0 | 167.2 | 167.3 | 167.3 | 167.4 | 167.5 | 167.6 | 167.9 |
| 110° | 189.4 | 189.6 | 189.9 | 190.1 | 190.4 | 190.4 | 190.3 | 190.2 | 190.1 | 189.9 | 189.7 |



TEST NUMBER: P332551

CATALOG NUMBER: S124DIP-S575D590U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 213.1 | 213.1 | 213.2 | 213.2 | 213.3 | 213.2 | 213.0 | 212.7 | 212.5 | 212.3 | 212.2 |
| 115° | 248.7 | 248.7 | 248.7 | 248.7 | 248.7 | 248.5 | 248.3 | 248.0 | 247.8 | 247.5 | 247.4 |
| 117.5° | 282.2 | 282.3 | 282.4 | 282.5 | 282.6 | 282.6 | 282.4 | 282.2 | 282.0 | 281.9 | 281.4 |
| 120° | 304.6 | 305.1 | 305.6 | 306.1 | 306.6 | 306.7 | 306.3 | 305.9 | 305.5 | 305.1 | 304.5 |
| 122.5° | 327.8 | 328.0 | 328.2 | 328.4 | 328.6 | 328.7 | 328.5 | 328.3 | 328.1 | 328.0 | 327.5 |
| 125° | 362.2 | 362.2 | 362.2 | 362.2 | 362.2 | 362.1 | 362.0 | 361.9 | 361.7 | 361.6 | 361.3 |
| 127.5° | 393.3 | 393.7 | 394.1 | 394.5 | 394.8 | 394.9 | 394.7 | 394.5 | 394.3 | 394.1 | 393.9 |
| 130° | 415.2 | 415.6 | 416.0 | 416.4 | 416.7 | 416.9 | 416.9 | 416.9 | 416.9 | 416.9 | 416.7 |
| 132.5° | 437.6 | 437.9 | 438.1 | 438.4 | 438.7 | 438.8 | 438.7 | 438.6 | 438.5 | 438.4 | 438.1 |
| 135° | 467.1 | 467.9 | 468.6 | 469.4 | 470.2 | 470.5 | 470.5 | 470.5 | 470.5 | 470.5 | 470.3 |
| 137.5° | 499.3 | 499.6 | 500.0 | 500.3 | 500.7 | 501.0 | 501.2 | 501.4 | 501.6 | 501.8 | 501.5 |
| 140° | 520.7 | 521.0 | 521.2 | 521.5 | 521.7 | 521.9 | 521.9 | 521.9 | 521.9 | 521.9 | 521.7 |
| 142.5° | 540.3 | 540.6 | 540.9 | 541.1 | 541.4 | 541.4 | 541.3 | 541.2 | 541.1 | 541.0 | 541.0 |
| 145° | 567.5 | 568.0 | 568.5 | 569.0 | 569.5 | 569.8 | 570.0 | 570.1 | 570.2 | 570.3 | 570.2 |
| 147.5° | 594.4 | 595.0 | 595.6 | 596.2 | 596.9 | 597.1 | 597.0 | 596.9 | 596.8 | 596.7 | 596.6 |
| 150° | 610.8 | 611.4 | 611.9 | 612.4 | 612.9 | 613.1 | 613.1 | 613.1 | 613.1 | 613.1 | 613.1 |
| 152.5° | 626.4 | 626.7 | 627.0 | 627.3 | 627.6 | 627.8 | 627.9 | 628.0 | 628.1 | 628.2 | 628.5 |
| 155° | 650.2 | 650.2 | 650.2 | 650.2 | 650.2 | 650.1 | 650.0 | 649.9 | 649.8 | 649.6 | 650.1 |
| 157.5° | 670.3 | 670.0 | 669.8 | 669.6 | 669.4 | 669.2 | 669.2 | 669.2 | 669.2 | 669.1 | 669.5 |
| 160° | 682.1 | 682.0 | 681.9 | 681.8 | 681.6 | 681.5 | 681.4 | 681.3 | 681.1 | 681.0 | 681.4 |
| 162.5° | 693.1 | 692.8 | 692.4 | 692.1 | 691.8 | 691.5 | 691.4 | 691.3 | 691.2 | 691.0 | 691.7 |
| 165° | 707.8 | 707.4 | 707.0 | 706.7 | 706.3 | 706.0 | 705.7 | 705.5 | 705.2 | 705.0 | 705.7 |
| 167.5° | 719.1 | 718.6 | 718.0 | 717.5 | 717.0 | 716.7 | 716.7 | 716.8 | 716.8 | 716.8 | 717.6 |
| 170° | 725.5 | 724.9 | 724.2 | 723.6 | 722.9 | 722.7 | 722.8 | 722.9 | 723.1 | 723.2 | 724.0 |
| 172.5° | 730.0 | 729.5 | 729.0 | 728.5 | 727.9 | 727.7 | 727.7 | 727.7 | 727.7 | 727.8 | 728.6 |
| 175° | 736.3 | 735.7 | 735.1 | 734.4 | 733.8 | 733.4 | 733.3 | 733.2 | 733.0 | 732.9 | 733.8 |
| 177.5° | 738.4 | 737.9 | 737.4 | 736.9 | 736.3 | 736.1 | 736.1 | 736.1 | 736.1 | 736.1 | 736.8 |
| 180° | 737.5 | 737.5 | 737.5 | 737.5 | 737.5 | 737.5 | 737.5 | 737.5 | 737.5 | 737.5 | 737.5 |



TEST NUMBER: P332551

CATALOG NUMBER: S124DIP-S575D590U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 971.1 | 971.1 | 971.1 | 971.1 | 971.1 | 971.1 | 971.1 | 971.1 |
| 2.5° | 967.7 | 969.1 | 970.5 | 971.1 | 970.9 | 970.8 | 970.7 | 970.5 |
| 5° | 962.5 | 964.4 | 966.3 | 967.1 | 966.7 | 966.4 | 966.0 | 965.7 |
| 7.5° | 951.8 | 953.3 | 954.8 | 955.5 | 955.3 | 955.1 | 954.9 | 954.6 |
| 10° | 942.8 | 944.2 | 945.6 | 946.1 | 945.7 | 945.4 | 945.0 | 944.7 |
| 12.5° | 931.9 | 933.4 | 934.9 | 935.4 | 934.9 | 934.4 | 934.0 | 933.5 |
| 15° | 911.0 | 912.0 | 913.0 | 913.3 | 912.8 | 912.3 | 911.7 | 911.2 |
| 17.5° | 887.2 | 887.8 | 888.5 | 888.6 | 888.3 | 887.9 | 887.6 | 887.3 |
| 20° | 869.5 | 870.0 | 870.5 | 870.6 | 870.2 | 869.9 | 869.6 | 869.2 |
| 22.5° | 851.0 | 851.9 | 852.9 | 853.0 | 852.4 | 851.8 | 851.2 | 850.5 |
| 25° | 820.5 | 820.7 | 820.9 | 820.6 | 819.9 | 819.2 | 818.5 | 817.8 |
| 27.5° | 786.4 | 785.9 | 785.5 | 784.9 | 784.0 | 783.2 | 782.3 | 781.4 |
| 30° | 762.8 | 762.1 | 761.4 | 760.6 | 759.7 | 758.9 | 758.0 | 757.1 |
| 32.5° | 738.8 | 738.0 | 737.2 | 736.3 | 735.5 | 734.6 | 733.7 | 732.9 |
| 35° | 701.0 | 699.8 | 698.6 | 697.6 | 696.7 | 695.8 | 695.0 | 694.1 |
| 37.5° | 661.5 | 660.1 | 658.8 | 657.6 | 656.5 | 655.3 | 654.2 | 653.0 |
| 40° | 633.9 | 632.1 | 630.4 | 629.1 | 628.2 | 627.4 | 626.5 | 625.6 |
| 42.5° | 607.2 | 605.1 | 603.1 | 601.8 | 601.3 | 600.7 | 600.1 | 599.5 |
| 45° | 565.8 | 563.9 | 562.0 | 560.8 | 560.3 | 559.8 | 559.2 | 558.7 |
| 47.5° | 525.8 | 523.6 | 521.5 | 519.8 | 518.5 | 517.1 | 515.8 | 514.5 |
| 50° | 497.8 | 495.4 | 493.0 | 491.3 | 490.2 | 489.2 | 488.2 | 487.1 |
| 52.5° | 469.1 | 467.0 | 464.9 | 463.1 | 461.8 | 460.5 | 459.2 | 457.9 |
| 55° | 427.0 | 424.9 | 422.8 | 421.2 | 420.2 | 419.2 | 418.1 | 417.1 |
| 57.5° | 384.7 | 382.7 | 380.7 | 379.2 | 378.2 | 377.2 | 376.2 | 375.2 |
| 60° | 355.6 | 354.1 | 352.5 | 351.3 | 350.4 | 349.6 | 348.7 | 347.8 |
| 62.5° | 327.3 | 325.8 | 324.4 | 323.3 | 322.4 | 321.6 | 320.7 | 319.8 |
| 65° | 286.0 | 284.3 | 282.6 | 281.3 | 280.4 | 279.5 | 278.7 | 277.8 |
| 67.5° | 243.5 | 241.9 | 240.2 | 239.2 | 239.0 | 238.8 | 238.5 | 238.3 |
| 70° | 216.7 | 215.3 | 213.9 | 213.0 | 212.4 | 211.9 | 211.4 | 210.9 |
| 72.5° | 189.8 | 188.7 | 187.6 | 186.8 | 186.3 | 185.8 | 185.3 | 184.7 |
| 75° | 151.1 | 150.4 | 149.8 | 149.3 | 149.1 | 149.0 | 148.8 | 148.6 |
| 77.5° | 114.4 | 114.2 | 114.0 | 113.7 | 113.2 | 112.8 | 112.3 | 111.9 |
| 80° | 91.1 | 90.8 | 90.4 | 90.2 | 90.0 | 89.8 | 89.7 | 89.5 |
| 82.5° | 70.2 | 70.0 | 69.8 | 69.6 | 69.5 | 69.3 | 69.1 | 68.9 |
| 85° | 40.5 | 40.5 | 40.5 | 40.4 | 40.2 | 40.0 | 39.9 | 39.7 |
| 87.5° | 17.8 | 17.9 | 18.1 | 18.2 | 18.2 | 18.3 | 18.3 | 18.4 |
| 90° | 14.1 | 14.8 | 15.6 | 16.1 | 16.4 | 16.6 | 16.9 | 17.1 |
| 92.5° | 23.5 | 24.0 | 24.4 | 24.7 | 24.9 | 25.0 | 25.2 | 25.3 |
| 95° | 44.1 | 44.5 | 44.9 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 |
| 97.5° | 69.5 | 69.9 | 70.4 | 70.6 | 70.6 | 70.6 | 70.6 | 70.6 |
| 100° | 87.8 | 88.0 | 88.3 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 |
| 102.5° | 107.1 | 107.5 | 107.8 | 108.1 | 108.2 | 108.3 | 108.4 | 108.5 |
| 105° | 136.5 | 136.9 | 137.3 | 137.6 | 138.0 | 138.4 | 138.8 | 139.2 |
| 107.5° | 168.3 | 168.6 | 169.0 | 169.2 | 169.1 | 169.1 | 169.1 | 169.1 |
| 110° | 189.4 | 189.2 | 188.9 | 189.0 | 189.4 | 189.7 | 190.1 | 190.5 |



TEST NUMBER: P332551

CATALOG NUMBER: S124DIP-S575D590U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 212.2 | 212.1 | 212.1 | 212.1 | 212.2 | 212.2 | 212.3 | 212.4 |
| 115° | 247.3 | 247.2 | 247.0 | 246.9 | 246.8 | 246.6 | 246.5 | 246.4 |
| 117.5° | 281.0 | 280.6 | 280.1 | 279.8 | 279.5 | 279.3 | 279.0 | 278.8 |
| 120° | 303.9 | 303.2 | 302.6 | 302.4 | 302.7 | 302.9 | 303.2 | 303.4 |
| 122.5° | 327.1 | 326.7 | 326.2 | 325.8 | 325.3 | 324.9 | 324.4 | 324.0 |
| 125° | 361.1 | 360.8 | 360.6 | 360.3 | 360.1 | 359.8 | 359.6 | 359.3 |
| 127.5° | 393.6 | 393.4 | 393.1 | 392.9 | 392.7 | 392.5 | 392.3 | 392.1 |
| 130° | 416.4 | 416.2 | 415.9 | 415.5 | 415.0 | 414.5 | 414.0 | 413.5 |
| 132.5° | 437.9 | 437.6 | 437.4 | 437.1 | 436.9 | 436.7 | 436.5 | 436.3 |
| 135° | 470.0 | 469.8 | 469.5 | 469.2 | 468.8 | 468.4 | 468.1 | 467.7 |
| 137.5° | 501.1 | 500.8 | 500.5 | 500.3 | 500.4 | 500.5 | 500.6 | 500.7 |
| 140° | 521.6 | 521.5 | 521.4 | 521.2 | 521.1 | 521.0 | 520.9 | 520.7 |
| 142.5° | 541.0 | 541.0 | 540.9 | 540.9 | 540.9 | 540.9 | 540.8 | 540.8 |
| 145° | 570.1 | 570.0 | 569.8 | 569.6 | 569.2 | 568.8 | 568.4 | 568.1 |
| 147.5° | 596.5 | 596.4 | 596.3 | 596.2 | 596.1 | 595.9 | 595.8 | 595.7 |
| 150° | 613.1 | 613.1 | 613.1 | 613.1 | 612.9 | 612.8 | 612.7 | 612.6 |
| 152.5° | 628.8 | 629.1 | 629.4 | 629.4 | 629.1 | 628.7 | 628.4 | 628.1 |
| 155° | 650.6 | 651.1 | 651.7 | 651.7 | 651.1 | 650.6 | 650.1 | 649.6 |
| 157.5° | 669.9 | 670.3 | 670.7 | 670.6 | 670.2 | 669.8 | 669.3 | 668.9 |
| 160° | 681.8 | 682.1 | 682.5 | 682.4 | 681.8 | 681.1 | 680.5 | 679.9 |
| 162.5° | 692.4 | 693.1 | 693.8 | 693.8 | 693.2 | 692.5 | 691.9 | 691.3 |
| 165° | 706.5 | 707.2 | 708.0 | 708.1 | 707.6 | 707.1 | 706.6 | 706.1 |
| 167.5° | 718.3 | 719.1 | 719.9 | 719.8 | 719.1 | 718.3 | 717.5 | 716.7 |
| 170° | 724.7 | 725.5 | 726.2 | 726.2 | 725.3 | 724.4 | 723.5 | 722.6 |
| 172.5° | 729.5 | 730.4 | 731.2 | 731.2 | 730.3 | 729.4 | 728.5 | 727.7 |
| 175° | 734.7 | 735.6 | 736.4 | 736.4 | 735.6 | 734.7 | 733.8 | 732.9 |
| 177.5° | 737.5 | 738.2 | 738.9 | 738.9 | 738.1 | 737.3 | 736.4 | 735.6 |
| 180° | 737.5 | 737.5 | 737.5 | 737.5 | 737.5 | 737.5 | 737.5 | 737.5 |

(END OF REPORT)