

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: P332552

Luminaire Tested: **S124DIP-S575D590U835-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332552
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-S575D590U835-4F0-1E-UDD-F4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 575 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4605.4 lumens
Efficiency: N/A
Efficacy: 140.4 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

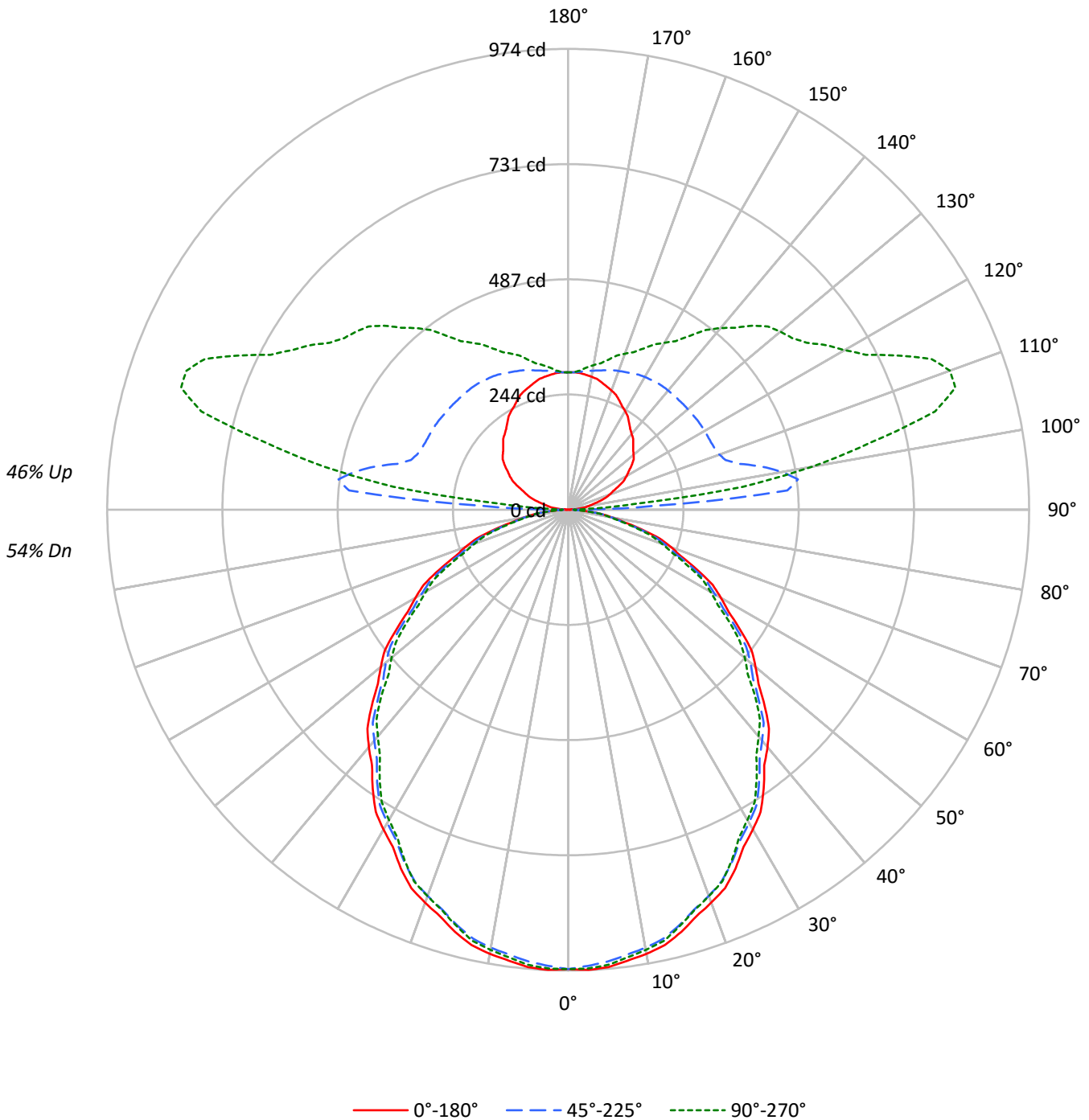
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332552

CATALOG NUMBER: S124DIP-S575D590U835-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P332552

CATALOG NUMBER: S124DIP-S575D590U835-4F0-1E-UDD-F4

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 | 100 | 100 | 100 | 100 | 86 | 86 | 86 | 72 | 72 | 72 | 60 | 60 | 60 | 54 |
| 1 | 99 | 94 | 90 | 87 | 91 | 88 | 84 | 81 | 75 | 73 | 70 | 64 | 62 | 60 | 53 | 52 | 51 | 46 |
| 2 | 90 | 82 | 76 | 71 | 83 | 77 | 71 | 67 | 66 | 62 | 58 | 56 | 53 | 50 | 47 | 44 | 43 | 38 |
| 3 | 82 | 72 | 65 | 59 | 76 | 67 | 61 | 56 | 58 | 53 | 49 | 49 | 46 | 42 | 41 | 39 | 36 | 32 |
| 4 | 75 | 64 | 56 | 50 | 69 | 60 | 53 | 47 | 52 | 46 | 42 | 44 | 40 | 36 | 37 | 34 | 31 | 28 |
| 5 | 69 | 57 | 49 | 43 | 64 | 53 | 46 | 41 | 46 | 40 | 36 | 39 | 35 | 32 | 33 | 30 | 27 | 24 |
| 6 | 63 | 51 | 43 | 37 | 59 | 48 | 41 | 35 | 42 | 36 | 31 | 36 | 31 | 28 | 30 | 27 | 24 | 21 |
| 7 | 59 | 46 | 38 | 33 | 54 | 43 | 36 | 31 | 38 | 32 | 28 | 32 | 28 | 24 | 28 | 24 | 21 | 19 |
| 8 | 54 | 42 | 34 | 29 | 50 | 39 | 32 | 27 | 34 | 29 | 25 | 30 | 25 | 22 | 25 | 22 | 19 | 17 |
| 9 | 51 | 38 | 31 | 26 | 47 | 36 | 29 | 25 | 32 | 26 | 22 | 27 | 23 | 20 | 23 | 20 | 17 | 15 |
| 10 | 47 | 35 | 28 | 23 | 44 | 33 | 27 | 22 | 29 | 24 | 20 | 25 | 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: P332552

CATALOG NUMBER: S124DIP-S575D590U835-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 91.5 | 2.0 |
| 10°-20° | 257.7 | 5.6 |
| 20°-30° | 379.3 | 8.2 |
| 30°-40° | 440.9 | 9.6 |
| 40°-50° | 440.9 | 9.6 |
| 50°-60° | 385.7 | 8.4 |
| 60°-70° | 286.4 | 6.2 |
| 70°-80° | 162.7 | 3.5 |
| 80°-90° | 48.6 | 1.1 |
| 90°-100° | 209.7 | 4.6 |
| 100°-110° | 436.5 | 9.5 |
| 110°-120° | 391.0 | 8.5 |
| 120°-130° | 328.9 | 7.1 |
| 130°-140° | 274.2 | 6.0 |
| 140°-150° | 209.5 | 4.5 |
| 150°-160° | 147.2 | 3.2 |
| 160°-170° | 86.6 | 1.9 |
| 170°-180° | 28.2 | 0.6 |
| 0°-30° | 728.4 | 15.8 |
| 0°-40° | 1169.3 | 25.4 |
| 0°-60° | 1996.0 | 43.3 |
| 0°-90° | 2493.7 | 54.1 |
| 90°-120° | 1037.2 | 22.5 |
| 90°-150° | 1849.7 | 40.2 |
| 90°-180° | 2112.0 | 45.9 |
| 0°-180° | 4605.4 | 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° | 1 | 5 | 10 | 11 | 12 | 3 |
| 95° | 19 | 59 | 465 | 230 | 139 | 21 |
| 105° | 67 | 97 | 374 | 806 | 803 | 71 |
| 115° | 118 | 148 | 334 | 641 | 771 | 117 |
| 125° | 164 | 194 | 332 | 546 | 615 | 146 |
| 135° | 194 | 232 | 329 | 484 | 550 | 150 |
| 145° | 224 | 257 | 327 | 408 | 449 | 141 |
| 155° | 255 | 275 | 318 | 360 | 376 | 118 |
| 165° | 278 | 286 | 305 | 323 | 328 | 78 |
| 175° | 290 | 290 | 293 | 297 | 296 | 27 |
| 180° | 290 | 290 | 290 | 290 | 290 | |



TEST NUMBER: P332552

CATALOG NUMBER: S124DIP-S575D590U835-4F0-1E-UDD-F4

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° | 16.3 | 16.4 | 16.6 | 16.6 | 16.5 | 16.4 | 17.0 | 16.8 | 16.9 | 17.0 | 16.9 |
| 90° | 0.6 | 1.7 | 3.4 | 4.0 | 4.6 | 4.6 | 8.0 | 8.0 | 9.1 | 10.3 | 9.7 |
| 92.5° | 6.5 | 9.5 | 14.8 | 21.8 | 30.1 | 42.0 | 71.0 | 115.2 | 158.4 | 180.9 | 150.7 |
| 95° | 18.8 | 20.5 | 26.2 | 33.7 | 47.3 | 71.3 | 120.9 | 214.5 | 350.8 | 464.9 | 478.0 |
| 97.5° | 33.8 | 33.8 | 38.7 | 45.5 | 57.3 | 77.4 | 115.6 | 192.8 | 328.4 | 489.7 | 600.6 |
| 100° | 43.4 | 43.4 | 47.3 | 54.2 | 65.0 | 83.3 | 116.9 | 181.4 | 297.8 | 458.6 | 604.7 |
| 102.5° | 52.5 | 53.4 | 56.9 | 63.3 | 73.7 | 91.0 | 121.5 | 178.2 | 277.2 | 419.9 | 570.4 |
| 105° | 66.7 | 68.5 | 71.3 | 78.2 | 88.4 | 105.0 | 132.3 | 179.7 | 259.6 | 374.2 | 508.3 |
| 107.5° | 82.5 | 83.6 | 86.5 | 93.8 | 103.6 | 119.9 | 145.0 | 188.1 | 256.4 | 348.7 | 458.1 |
| 110° | 93.0 | 94.1 | 97.0 | 103.8 | 114.1 | 129.5 | 154.6 | 194.5 | 257.3 | 340.0 | 433.0 |



TEST NUMBER: P332552

CATALOG NUMBER: S124DIP-S575D590U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 103.0 | 104.2 | 107.5 | 113.9 | 124.1 | 139.5 | 163.7 | 201.4 | 260.0 | 335.9 | 418.8 |
| 115° | 117.5 | 119.2 | 123.2 | 128.9 | 139.8 | 155.2 | 178.0 | 212.2 | 265.3 | 333.7 | 405.6 |
| 117.5° | 132.6 | 134.2 | 137.7 | 144.0 | 154.1 | 170.1 | 191.8 | 223.3 | 270.8 | 333.1 | 399.7 |
| 120° | 142.6 | 143.8 | 147.7 | 154.0 | 163.7 | 179.7 | 201.4 | 231.0 | 275.0 | 333.1 | 396.5 |
| 122.5° | 151.7 | 152.9 | 156.9 | 162.7 | 173.3 | 188.8 | 210.5 | 238.3 | 279.1 | 332.7 | 392.8 |
| 125° | 163.7 | 166.0 | 169.4 | 175.7 | 186.5 | 202.5 | 223.0 | 249.3 | 285.2 | 332.0 | 386.8 |
| 127.5° | 174.3 | 176.2 | 180.3 | 187.4 | 198.7 | 214.8 | 234.7 | 258.8 | 290.1 | 330.7 | 378.7 |
| 130° | 180.3 | 182.5 | 187.1 | 195.7 | 206.5 | 223.0 | 242.4 | 264.7 | 293.8 | 330.3 | 373.6 |
| 132.5° | 186.2 | 188.0 | 194.0 | 202.1 | 213.8 | 229.4 | 248.8 | 270.6 | 297.0 | 329.8 | 369.1 |
| 135° | 194.5 | 196.8 | 202.5 | 212.2 | 224.2 | 239.0 | 257.8 | 278.4 | 301.8 | 329.1 | 362.2 |
| 137.5° | 202.9 | 205.0 | 211.3 | 220.5 | 233.0 | 247.1 | 264.7 | 283.9 | 304.6 | 329.0 | 356.3 |
| 140° | 208.8 | 210.5 | 216.8 | 226.5 | 238.4 | 252.1 | 269.3 | 287.5 | 306.9 | 328.6 | 353.1 |
| 142.5° | 215.2 | 216.9 | 222.7 | 231.9 | 243.5 | 256.7 | 273.4 | 290.2 | 308.7 | 328.6 | 350.4 |
| 145° | 224.2 | 225.9 | 231.6 | 239.6 | 250.4 | 263.0 | 277.8 | 293.2 | 309.8 | 327.4 | 345.7 |
| 147.5° | 234.3 | 234.9 | 239.9 | 248.1 | 257.2 | 268.5 | 282.4 | 295.8 | 310.3 | 325.4 | 341.5 |
| 150° | 240.7 | 241.3 | 245.9 | 252.7 | 261.3 | 272.1 | 284.7 | 297.2 | 310.3 | 324.0 | 338.3 |
| 152.5° | 246.7 | 246.8 | 251.3 | 257.7 | 265.4 | 275.3 | 286.5 | 298.1 | 309.4 | 321.7 | 334.6 |
| 155° | 255.0 | 255.6 | 259.0 | 264.7 | 271.0 | 279.5 | 289.2 | 298.9 | 308.0 | 318.3 | 329.1 |
| 157.5° | 263.1 | 263.1 | 266.3 | 270.7 | 276.2 | 282.9 | 291.2 | 298.9 | 306.6 | 314.8 | 323.6 |
| 160° | 268.1 | 268.1 | 270.4 | 274.4 | 278.9 | 285.2 | 292.1 | 298.9 | 305.2 | 312.0 | 319.5 |
| 162.5° | 272.7 | 272.2 | 274.0 | 277.6 | 281.7 | 286.6 | 293.0 | 298.9 | 303.8 | 309.3 | 315.8 |
| 165° | 277.8 | 277.8 | 278.9 | 281.8 | 284.7 | 288.1 | 293.2 | 297.8 | 301.2 | 305.2 | 309.8 |
| 167.5° | 282.9 | 282.4 | 282.9 | 285.1 | 286.7 | 289.3 | 293.1 | 296.4 | 298.5 | 301.1 | 304.3 |
| 170° | 285.2 | 284.7 | 285.2 | 286.9 | 288.1 | 289.8 | 292.6 | 295.5 | 296.6 | 298.3 | 300.6 |
| 172.5° | 287.5 | 286.9 | 287.0 | 288.3 | 289.0 | 290.2 | 292.2 | 294.6 | 294.8 | 295.6 | 297.4 |
| 175° | 289.8 | 289.2 | 289.2 | 289.8 | 290.4 | 290.4 | 291.5 | 293.2 | 292.6 | 292.6 | 293.8 |
| 177.5° | 290.8 | 290.4 | 289.9 | 290.4 | 290.4 | 290.4 | 290.8 | 291.7 | 290.8 | 290.8 | 291.3 |
| 180° | 290.4 | 290.4 | 290.4 | 290.4 | 290.4 | 290.4 | 290.4 | 290.4 | 290.4 | 290.4 | 290.4 |



TEST NUMBER: P332552

CATALOG NUMBER: S124DIP-S575D590U835-4F0-1E-UDD-F4

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° | 17.0 | 17.1 | 17.2 | 17.2 | 17.3 | 17.5 | 17.3 | 17.3 |
| 90° | 10.3 | 10.8 | 11.4 | 11.4 | 12.0 | 12.5 | 12.0 | 12.0 |
| 92.5° | 112.0 | 84.3 | 67.1 | 55.7 | 48.9 | 45.9 | 43.9 | 43.9 |
| 95° | 422.7 | 334.3 | 257.8 | 202.5 | 174.6 | 156.9 | 146.6 | 139.2 |
| 97.5° | 624.5 | 591.7 | 535.9 | 476.3 | 435.4 | 401.0 | 383.9 | 372.0 |
| 100° | 688.0 | 699.4 | 671.4 | 629.2 | 579.6 | 544.8 | 527.7 | 523.1 |
| 102.5° | 684.8 | 741.4 | 749.5 | 731.9 | 701.4 | 676.2 | 658.2 | 654.5 |
| 105° | 638.9 | 737.6 | 794.1 | 817.5 | 818.6 | 814.0 | 806.0 | 802.6 |
| 107.5° | 573.8 | 678.8 | 758.4 | 809.2 | 837.4 | 850.4 | 856.1 | 857.6 |
| 110° | 534.5 | 633.2 | 715.9 | 778.7 | 819.2 | 843.1 | 853.4 | 858.5 |



TEST NUMBER: P332552

CATALOG NUMBER: S124DIP-S575D590U835-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 505.8 | 593.0 | 671.2 | 733.9 | 779.9 | 808.9 | 823.3 | 831.6 |
| 115° | 476.9 | 547.1 | 613.8 | 668.6 | 713.6 | 747.9 | 766.1 | 770.7 |
| 117.5° | 462.7 | 520.8 | 573.3 | 619.7 | 658.2 | 686.9 | 705.4 | 709.0 |
| 120° | 456.4 | 509.4 | 555.0 | 595.5 | 628.1 | 653.2 | 668.0 | 674.3 |
| 122.5° | 450.9 | 502.1 | 543.6 | 579.1 | 606.6 | 628.1 | 640.6 | 646.9 |
| 125° | 441.5 | 490.6 | 529.9 | 561.3 | 584.1 | 600.7 | 611.5 | 614.9 |
| 127.5° | 430.1 | 477.0 | 516.3 | 546.0 | 569.0 | 583.7 | 592.8 | 596.2 |
| 130° | 421.0 | 466.1 | 504.8 | 535.1 | 558.5 | 572.7 | 581.9 | 585.3 |
| 132.5° | 411.4 | 453.7 | 491.6 | 521.8 | 544.8 | 560.9 | 569.5 | 573.0 |
| 135° | 398.2 | 435.3 | 470.0 | 498.6 | 521.4 | 537.4 | 546.5 | 549.9 |
| 137.5° | 386.2 | 417.6 | 446.9 | 472.7 | 494.0 | 509.8 | 517.3 | 521.4 |
| 140° | 379.3 | 406.2 | 431.8 | 455.8 | 475.8 | 488.3 | 496.3 | 500.9 |
| 142.5° | 373.0 | 396.6 | 418.6 | 439.4 | 457.0 | 468.7 | 475.8 | 478.9 |
| 145° | 363.9 | 383.3 | 400.5 | 416.4 | 430.7 | 440.4 | 446.1 | 448.9 |
| 147.5° | 356.5 | 371.9 | 385.6 | 398.2 | 408.7 | 417.0 | 421.3 | 422.4 |
| 150° | 352.0 | 365.1 | 376.5 | 386.8 | 395.9 | 403.3 | 406.7 | 407.3 |
| 152.5° | 346.9 | 358.2 | 368.7 | 377.2 | 384.9 | 391.0 | 393.0 | 393.6 |
| 155° | 339.4 | 348.5 | 357.1 | 363.9 | 369.7 | 374.2 | 375.9 | 375.9 |
| 157.5° | 331.3 | 339.0 | 346.1 | 351.6 | 356.0 | 359.4 | 360.4 | 360.4 |
| 160° | 326.3 | 332.6 | 338.8 | 343.4 | 346.8 | 350.3 | 350.8 | 350.8 |
| 162.5° | 321.3 | 326.6 | 331.5 | 335.7 | 338.2 | 341.6 | 342.2 | 341.7 |
| 165° | 314.3 | 317.7 | 321.7 | 324.6 | 326.9 | 329.1 | 328.6 | 328.0 |
| 167.5° | 307.6 | 310.2 | 313.4 | 315.1 | 316.3 | 317.7 | 317.6 | 317.2 |
| 170° | 303.5 | 305.2 | 307.5 | 309.2 | 310.3 | 310.9 | 310.3 | 310.3 |
| 172.5° | 299.8 | 301.1 | 302.5 | 303.7 | 304.4 | 305.0 | 304.4 | 303.5 |
| 175° | 294.9 | 295.5 | 296.6 | 296.6 | 296.6 | 297.8 | 296.6 | 295.5 |
| 177.5° | 291.7 | 292.2 | 292.2 | 292.6 | 292.2 | 292.6 | 291.7 | 290.8 |
| 180° | 290.4 | 290.4 | 290.4 | 290.4 | 290.4 | 290.4 | 290.4 | 290.4 |

(END OF REPORT)