

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: P334106

Luminaire Tested: **S124DS-S575D927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DS-S575D927-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT LED LUMINAIRE, ASYMMETRIC DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 575 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1894.5 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.22 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Direct

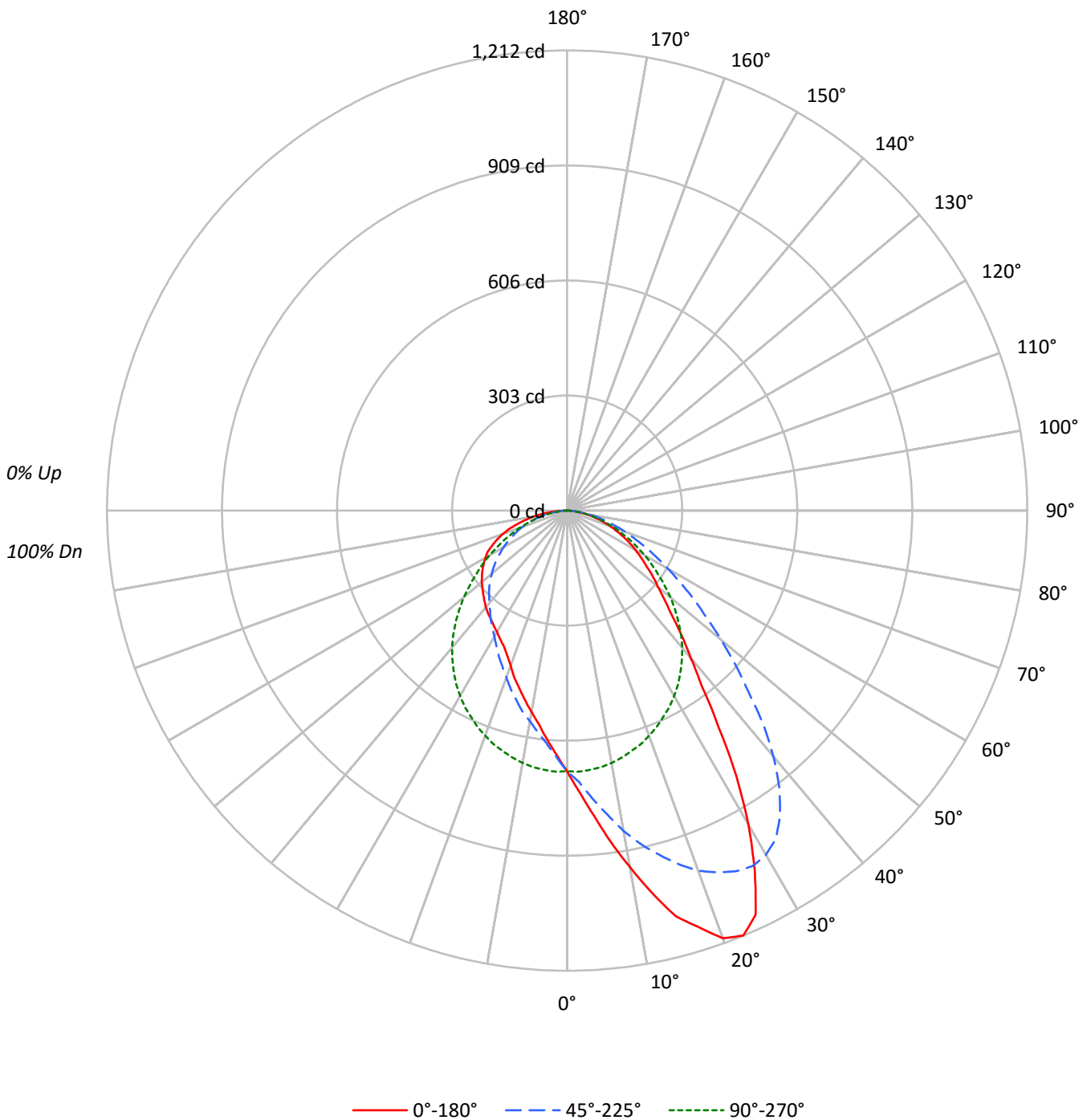
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334106

CATALOG NUMBER: S124DS-S575D927-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P334106

CATALOG NUMBER: S124DS-S575D927-4F0-1E-UDD-A

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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 98 | 95 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 86 | 80 | 98 | 90 | 84 | 79 | 87 | 82 | 78 | 84 | 79 | 76 | 81 | 77 | 74 | 72 |
| 3 | 92 | 82 | 74 | 68 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 74 | 69 | 65 | 72 | 67 | 64 | 62 |
| 4 | 84 | 73 | 64 | 58 | 82 | 72 | 64 | 58 | 69 | 62 | 57 | 67 | 61 | 56 | 65 | 60 | 55 | 53 |
| 5 | 78 | 65 | 57 | 50 | 76 | 64 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 46 |
| 6 | 72 | 59 | 51 | 44 | 70 | 58 | 50 | 44 | 56 | 49 | 44 | 55 | 48 | 43 | 53 | 47 | 43 | 41 |
| 7 | 67 | 54 | 45 | 39 | 65 | 53 | 45 | 39 | 52 | 44 | 39 | 50 | 44 | 39 | 49 | 43 | 38 | 36 |
| 8 | 62 | 49 | 41 | 35 | 61 | 49 | 41 | 35 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 33 |
| 9 | 58 | 45 | 37 | 32 | 57 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 31 | 30 |
| 10 | 55 | 42 | 34 | 29 | 54 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 39 | 33 | 29 | 27 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|------|------|
| 0° | 5543 | 5543 | 5543 |
| 5° | 6527 | 5557 | 4904 |
| 10° | 7815 | 5532 | 4416 |
| 15° | 9246 | 5477 | 4055 |
| 20° | 10296 | 5419 | 3734 |
| 25° | 10463 | 5336 | 3511 |
| 30° | 8902 | 5255 | 3442 |
| 35° | 6844 | 5124 | 3441 |
| 40° | 5335 | 4969 | 3507 |
| 45° | 4448 | 4737 | 3565 |
| 50° | 3915 | 4455 | 3686 |
| 55° | 3586 | 4115 | 3835 |
| 60° | 3362 | 3812 | 4014 |
| 65° | 3129 | 3471 | 4162 |
| 70° | 2861 | 3135 | 4256 |
| 75° | 2555 | 2760 | 4205 |
| 80° | 2143 | 2259 | 4073 |
| 85° | 1584 | 1630 | 3900 |



TEST NUMBER: P334106

CATALOG NUMBER: S124DS-S575D927-4F0-1E-UDD-A

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 66.8 | 3.5 |
| 10°-20° | 206.2 | 10.9 |
| 20°-30° | 327.6 | 17.3 |
| 30°-40° | 364.0 | 19.2 |
| 40°-50° | 331.1 | 17.5 |
| 50°-60° | 270.5 | 14.3 |
| 60°-70° | 193.1 | 10.2 |
| 70°-80° | 106.3 | 5.6 |
| 80°-90° | 28.7 | 1.5 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 600.7 | 31.7 |
| 0°-40° | 964.7 | 50.9 |
| 0°-60° | 1566.4 | 82.7 |
| 0°-90° | 1894.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1894.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 687 | 687 | 687 | 687 | 687 | |
| 5° | 805 | 761 | 686 | 616 | 605 | 82 |
| 15° | 1106 | 939 | 655 | 516 | 485 | 313 |
| 25° | 1175 | 1049 | 599 | 425 | 394 | 521 |
| 35° | 694 | 978 | 520 | 351 | 349 | 440 |
| 45° | 390 | 675 | 415 | 291 | 312 | 306 |
| 55° | 255 | 406 | 292 | 227 | 272 | 230 |
| 65° | 164 | 226 | 182 | 158 | 218 | 162 |
| 75° | 82 | 106 | 88 | 88 | 135 | 87 |
| 85° | 17 | 22 | 18 | 25 | 42 | 21 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P334106

CATALOG NUMBER: S124DS-S575D927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 686.6 | 686.6 | 686.6 | 686.6 | 686.6 | 686.6 | 686.6 | 686.6 | 686.6 | 686.6 | 686.6 |
| 2.5° | 741.7 | 741.4 | 738.6 | 738.0 | 736.0 | 733.5 | 732.9 | 728.4 | 719.3 | 715.0 | 713.9 |
| 5° | 805.4 | 811.1 | 803.7 | 802.3 | 801.5 | 792.1 | 787.2 | 781.5 | 768.5 | 760.8 | 754.8 |
| 7.5° | 880.0 | 880.2 | 877.1 | 874.0 | 868.6 | 860.6 | 849.8 | 837.3 | 822.2 | 806.9 | 796.1 |
| 10° | 953.3 | 955.6 | 951.9 | 951.3 | 936.8 | 927.7 | 909.5 | 894.2 | 876.5 | 856.9 | 839.0 |
| 12.5° | 1030.7 | 1026.1 | 1024.7 | 1009.6 | 1009.9 | 991.4 | 969.5 | 953.6 | 924.0 | 900.7 | 875.4 |
| 15° | 1106.3 | 1100.1 | 1096.1 | 1079.3 | 1071.1 | 1048.0 | 1025.6 | 1008.2 | 972.7 | 938.8 | 913.2 |
| 17.5° | 1150.1 | 1157.8 | 1147.6 | 1140.8 | 1118.3 | 1103.2 | 1080.7 | 1045.2 | 1018.7 | 976.6 | 947.4 |
| 20° | 1198.5 | 1199.1 | 1193.9 | 1186.8 | 1170.0 | 1149.6 | 1124.5 | 1084.7 | 1051.4 | 1009.6 | 965.3 |
| 22.5° | 1211.6 | 1211.6 | 1210.1 | 1203.6 | 1191.9 | 1176.3 | 1151.0 | 1119.4 | 1077.3 | 1031.0 | 986.6 |
| 25° | 1174.6 | 1173.5 | 1176.0 | 1183.4 | 1178.6 | 1173.5 | 1159.0 | 1134.2 | 1096.7 | 1048.6 | 1000.8 |
| 27.5° | 1069.9 | 1077.3 | 1092.7 | 1110.9 | 1124.0 | 1135.6 | 1134.8 | 1124.3 | 1097.5 | 1056.0 | 1005.1 |
| 30° | 955.0 | 964.7 | 975.5 | 993.7 | 1029.0 | 1049.2 | 1071.4 | 1088.1 | 1078.8 | 1047.2 | 1000.5 |
| 32.5° | 828.8 | 829.3 | 846.7 | 868.0 | 899.6 | 943.1 | 981.5 | 1019.9 | 1036.4 | 1023.6 | 986.6 |
| 35° | 694.5 | 698.5 | 715.8 | 736.3 | 775.9 | 823.4 | 876.3 | 923.5 | 962.4 | 978.1 | 958.2 |
| 37.5° | 581.9 | 594.4 | 607.5 | 630.8 | 666.9 | 709.9 | 766.8 | 825.6 | 882.8 | 917.5 | 921.2 |
| 40° | 506.2 | 513.4 | 522.2 | 538.9 | 568.5 | 610.6 | 657.8 | 727.8 | 789.5 | 845.3 | 863.5 |
| 42.5° | 446.5 | 449.9 | 454.5 | 469.3 | 490.0 | 531.8 | 573.9 | 633.4 | 695.4 | 764.8 | 798.3 |
| 45° | 389.6 | 393.9 | 403.0 | 411.8 | 428.9 | 457.9 | 498.0 | 548.6 | 610.9 | 675.2 | 731.5 |
| 47.5° | 347.0 | 349.8 | 355.5 | 365.2 | 380.5 | 400.2 | 434.3 | 477.2 | 538.1 | 600.4 | 660.7 |
| 50° | 311.7 | 314.0 | 318.2 | 326.8 | 337.9 | 354.9 | 381.7 | 421.2 | 466.4 | 529.3 | 588.2 |
| 52.5° | 283.8 | 284.4 | 287.2 | 292.4 | 300.6 | 314.3 | 335.0 | 366.0 | 407.3 | 461.6 | 520.2 |
| 55° | 254.8 | 256.0 | 258.8 | 263.1 | 270.8 | 279.9 | 296.6 | 321.1 | 357.8 | 406.4 | 457.3 |
| 57.5° | 230.9 | 232.1 | 234.4 | 236.1 | 242.9 | 250.6 | 264.2 | 281.8 | 310.6 | 353.8 | 400.2 |
| 60° | 208.2 | 207.6 | 210.5 | 211.9 | 216.1 | 222.4 | 232.4 | 249.1 | 273.3 | 306.6 | 348.4 |
| 62.5° | 186.0 | 185.1 | 187.4 | 189.4 | 191.4 | 196.5 | 204.2 | 216.4 | 234.9 | 264.2 | 298.9 |
| 65° | 163.8 | 162.7 | 164.1 | 166.4 | 168.7 | 171.5 | 177.5 | 189.1 | 204.8 | 226.4 | 254.0 |
| 67.5° | 141.1 | 142.5 | 142.5 | 143.9 | 145.3 | 149.3 | 153.6 | 162.7 | 173.8 | 191.4 | 215.9 |
| 70° | 121.2 | 121.4 | 122.6 | 122.6 | 123.4 | 126.8 | 130.3 | 135.1 | 145.9 | 161.8 | 180.9 |
| 72.5° | 101.2 | 102.7 | 101.8 | 103.0 | 103.5 | 105.5 | 107.8 | 112.3 | 121.2 | 132.0 | 147.3 |
| 75° | 81.9 | 82.8 | 82.8 | 83.0 | 83.9 | 84.8 | 86.7 | 90.2 | 96.7 | 105.5 | 116.6 |
| 77.5° | 63.1 | 63.1 | 63.7 | 64.8 | 64.8 | 66.3 | 68.0 | 70.5 | 74.2 | 80.8 | 87.9 |
| 80° | 46.1 | 46.6 | 46.4 | 46.9 | 46.9 | 48.1 | 48.6 | 52.0 | 53.5 | 57.4 | 62.9 |
| 82.5° | 30.7 | 31.3 | 31.3 | 32.1 | 32.7 | 32.7 | 33.6 | 34.4 | 35.8 | 39.2 | 40.7 |
| 85° | 17.1 | 17.6 | 17.1 | 17.6 | 18.5 | 18.8 | 19.6 | 19.9 | 21.0 | 21.9 | 23.9 |
| 87.5° | 6.3 | 7.1 | 7.1 | 7.4 | 8.0 | 8.2 | 8.5 | 8.2 | 9.4 | 9.7 | 10.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P334106

CATALOG NUMBER: S124DS-S575D927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 686.6 | 686.6 | 686.6 | 686.6 | 686.6 | 686.6 | 686.6 | 686.6 | 686.6 | 686.6 | 686.6 |
| 2.5° | 714.1 | 710.2 | 707.3 | 705.0 | 698.8 | 695.1 | 692.2 | 688.3 | 683.7 | 678.9 | 672.9 |
| 5° | 748.8 | 739.2 | 732.1 | 721.3 | 711.0 | 702.5 | 693.7 | 685.7 | 676.0 | 665.5 | 657.8 |
| 7.5° | 784.4 | 771.0 | 753.1 | 739.2 | 722.4 | 707.9 | 695.1 | 681.7 | 667.5 | 653.8 | 641.1 |
| 10° | 818.0 | 799.5 | 779.0 | 754.8 | 732.1 | 711.9 | 693.1 | 674.9 | 657.3 | 639.6 | 624.6 |
| 12.5° | 854.1 | 829.9 | 797.2 | 767.9 | 741.7 | 713.0 | 689.4 | 666.1 | 643.9 | 625.1 | 606.9 |
| 15° | 885.6 | 852.4 | 817.4 | 779.6 | 746.0 | 714.4 | 683.4 | 655.3 | 631.4 | 606.9 | 589.9 |
| 17.5° | 905.5 | 864.3 | 826.8 | 787.2 | 748.6 | 709.0 | 676.9 | 645.3 | 615.7 | 591.8 | 570.5 |
| 20° | 925.2 | 884.2 | 834.4 | 794.9 | 746.6 | 705.6 | 666.9 | 630.8 | 599.5 | 573.6 | 551.5 |
| 22.5° | 942.2 | 893.3 | 843.5 | 788.4 | 740.3 | 696.2 | 653.0 | 616.6 | 584.5 | 556.9 | 535.8 |
| 25° | 946.2 | 891.9 | 837.9 | 786.1 | 731.5 | 680.0 | 641.6 | 599.0 | 564.8 | 536.1 | 513.4 |
| 27.5° | 947.6 | 890.2 | 830.2 | 773.9 | 717.6 | 670.6 | 620.6 | 583.3 | 548.0 | 517.6 | 496.0 |
| 30° | 944.5 | 883.9 | 818.2 | 755.9 | 699.4 | 647.3 | 605.2 | 563.7 | 527.6 | 497.4 | 474.7 |
| 32.5° | 934.6 | 870.8 | 802.9 | 736.0 | 676.9 | 626.3 | 582.5 | 543.5 | 508.5 | 478.9 | 454.8 |
| 35° | 913.5 | 851.2 | 779.3 | 710.7 | 650.7 | 599.2 | 560.0 | 519.9 | 484.6 | 456.5 | 433.4 |
| 37.5° | 885.4 | 827.3 | 754.2 | 682.9 | 625.1 | 572.8 | 533.3 | 496.3 | 464.4 | 435.4 | 411.5 |
| 40° | 846.1 | 796.6 | 723.2 | 654.1 | 590.4 | 541.2 | 504.8 | 471.5 | 440.0 | 413.0 | 390.5 |
| 42.5° | 800.9 | 759.4 | 693.1 | 618.9 | 558.0 | 508.5 | 473.3 | 444.2 | 414.9 | 390.5 | 368.0 |
| 45° | 745.4 | 717.0 | 653.3 | 585.6 | 521.6 | 475.0 | 441.1 | 414.9 | 389.9 | 365.5 | 346.7 |
| 47.5° | 683.7 | 667.8 | 612.3 | 547.5 | 486.0 | 439.4 | 410.1 | 385.1 | 362.3 | 341.0 | 324.2 |
| 50° | 621.4 | 614.6 | 568.2 | 506.2 | 448.2 | 405.0 | 375.4 | 354.7 | 335.9 | 317.7 | 302.0 |
| 52.5° | 560.0 | 561.4 | 520.7 | 465.3 | 412.7 | 371.4 | 342.1 | 323.1 | 307.4 | 293.5 | 279.9 |
| 55° | 497.1 | 505.1 | 472.4 | 421.8 | 373.7 | 336.2 | 309.7 | 292.4 | 281.0 | 268.8 | 258.2 |
| 57.5° | 439.4 | 452.8 | 424.3 | 378.0 | 337.3 | 301.5 | 278.1 | 264.8 | 252.3 | 244.3 | 236.1 |
| 60° | 383.1 | 395.6 | 374.6 | 337.0 | 299.2 | 269.6 | 247.7 | 236.1 | 225.5 | 220.4 | 215.0 |
| 62.5° | 333.0 | 343.8 | 329.6 | 295.5 | 263.9 | 235.8 | 218.1 | 207.0 | 200.8 | 195.1 | 192.0 |
| 65° | 285.8 | 295.2 | 281.8 | 256.5 | 228.4 | 205.6 | 190.6 | 181.7 | 174.9 | 172.6 | 168.7 |
| 67.5° | 239.2 | 247.7 | 240.6 | 218.4 | 194.5 | 176.6 | 164.7 | 155.3 | 151.3 | 149.0 | 146.5 |
| 70° | 198.5 | 207.0 | 199.4 | 180.6 | 163.2 | 148.7 | 137.7 | 132.8 | 128.6 | 127.7 | 123.7 |
| 72.5° | 164.1 | 169.2 | 161.5 | 147.9 | 133.7 | 122.0 | 114.0 | 108.9 | 107.2 | 105.5 | 103.8 |
| 75° | 128.3 | 133.4 | 128.3 | 116.9 | 106.4 | 97.8 | 90.4 | 88.5 | 85.9 | 85.0 | 83.6 |
| 77.5° | 96.1 | 101.0 | 97.0 | 89.3 | 81.1 | 73.9 | 69.7 | 66.8 | 66.6 | 64.8 | 65.4 |
| 80° | 69.4 | 72.2 | 68.5 | 63.7 | 57.4 | 52.9 | 50.1 | 48.6 | 46.9 | 46.4 | 47.5 |
| 82.5° | 44.9 | 45.8 | 44.4 | 41.5 | 37.3 | 34.7 | 33.0 | 31.3 | 31.3 | 31.6 | 31.3 |
| 85° | 25.9 | 25.6 | 25.3 | 22.5 | 21.0 | 19.1 | 17.9 | 17.6 | 17.3 | 17.9 | 18.5 |
| 87.5° | 10.8 | 11.1 | 10.8 | 9.7 | 8.8 | 8.0 | 7.7 | 7.4 | 7.7 | 8.0 | 8.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P334106

CATALOG NUMBER: S124DS-S575D927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 686.6 | 686.6 | 686.6 | 686.6 | 686.6 | 686.6 | 686.6 | 686.6 | 686.6 | 686.6 | 686.6 |
| 2.5° | 670.1 | 667.5 | 663.8 | 658.7 | 654.4 | 649.9 | 648.7 | 647.0 | 650.4 | 647.6 | 646.7 |
| 5° | 651.3 | 645.3 | 637.6 | 628.8 | 623.7 | 616.3 | 614.9 | 612.0 | 609.2 | 608.9 | 606.1 |
| 7.5° | 631.7 | 623.4 | 613.7 | 604.6 | 596.7 | 588.7 | 583.6 | 583.0 | 578.5 | 576.2 | 573.4 |
| 10° | 612.9 | 602.1 | 590.4 | 581.9 | 572.2 | 563.7 | 557.7 | 554.3 | 551.5 | 548.3 | 545.5 |
| 12.5° | 590.7 | 579.0 | 569.9 | 560.6 | 548.6 | 542.6 | 531.8 | 525.3 | 525.3 | 526.2 | 517.6 |
| 15° | 574.5 | 563.1 | 548.3 | 535.3 | 529.0 | 516.5 | 511.1 | 504.3 | 500.0 | 495.7 | 492.3 |
| 17.5° | 554.6 | 540.7 | 529.3 | 514.5 | 502.8 | 493.4 | 486.0 | 482.4 | 475.5 | 469.3 | 465.0 |
| 20° | 536.1 | 521.0 | 508.8 | 492.9 | 479.8 | 467.6 | 461.6 | 455.9 | 451.1 | 445.9 | 441.1 |
| 22.5° | 517.3 | 501.4 | 485.8 | 470.4 | 458.5 | 445.4 | 439.7 | 431.4 | 426.9 | 424.6 | 419.8 |
| 25° | 497.4 | 480.4 | 463.3 | 448.5 | 436.0 | 424.6 | 416.9 | 411.0 | 405.8 | 403.6 | 400.4 |
| 27.5° | 475.8 | 459.0 | 442.8 | 425.8 | 411.3 | 403.0 | 396.7 | 391.9 | 388.8 | 385.4 | 383.9 |
| 30° | 455.3 | 437.7 | 420.1 | 404.4 | 391.3 | 383.1 | 377.4 | 374.3 | 372.0 | 370.6 | 369.2 |
| 32.5° | 434.6 | 417.2 | 398.5 | 384.5 | 373.1 | 366.0 | 362.0 | 358.9 | 358.1 | 357.8 | 357.5 |
| 35° | 412.1 | 394.5 | 377.4 | 364.6 | 353.5 | 350.7 | 347.0 | 345.3 | 344.7 | 346.7 | 347.5 |
| 37.5° | 390.5 | 374.0 | 358.1 | 345.3 | 337.9 | 333.3 | 331.9 | 331.6 | 333.6 | 335.3 | 337.3 |
| 40° | 369.7 | 353.8 | 339.0 | 328.2 | 321.4 | 318.8 | 318.2 | 319.7 | 321.9 | 323.9 | 326.2 |
| 42.5° | 349.5 | 333.9 | 320.8 | 310.9 | 306.6 | 304.3 | 304.9 | 306.3 | 309.7 | 312.3 | 316.0 |
| 45° | 328.5 | 315.4 | 302.3 | 294.1 | 290.1 | 290.7 | 290.7 | 293.2 | 296.4 | 300.0 | 303.7 |
| 47.5° | 308.9 | 295.5 | 284.4 | 277.3 | 275.3 | 274.5 | 275.9 | 279.3 | 283.6 | 287.8 | 292.9 |
| 50° | 289.0 | 276.4 | 267.1 | 260.8 | 258.5 | 259.4 | 261.7 | 264.8 | 270.2 | 275.9 | 281.3 |
| 52.5° | 268.8 | 257.7 | 249.1 | 243.5 | 242.0 | 243.7 | 246.0 | 251.4 | 256.0 | 262.2 | 269.0 |
| 55° | 247.7 | 238.0 | 231.2 | 227.0 | 226.4 | 227.2 | 229.8 | 235.2 | 242.0 | 249.7 | 256.0 |
| 57.5° | 227.0 | 218.7 | 212.2 | 209.0 | 209.3 | 209.9 | 213.9 | 220.4 | 227.2 | 235.5 | 243.5 |
| 60° | 205.9 | 198.5 | 193.4 | 191.1 | 191.4 | 193.1 | 198.2 | 204.2 | 213.3 | 221.3 | 229.8 |
| 62.5° | 186.0 | 179.7 | 174.9 | 172.9 | 172.3 | 176.6 | 181.5 | 187.7 | 196.8 | 205.9 | 215.3 |
| 65° | 164.4 | 159.3 | 155.3 | 154.1 | 155.0 | 157.8 | 164.1 | 172.3 | 180.0 | 189.4 | 199.1 |
| 67.5° | 143.3 | 139.1 | 136.2 | 136.8 | 137.7 | 141.6 | 147.0 | 154.1 | 162.7 | 172.3 | 182.3 |
| 70° | 123.4 | 119.5 | 117.2 | 117.5 | 119.2 | 124.3 | 128.8 | 135.9 | 145.3 | 155.3 | 163.2 |
| 72.5° | 103.0 | 100.7 | 98.7 | 100.1 | 101.8 | 104.9 | 110.9 | 118.0 | 126.0 | 135.1 | 143.6 |
| 75° | 82.2 | 82.2 | 81.1 | 81.9 | 84.5 | 87.9 | 92.1 | 99.5 | 107.8 | 115.2 | 122.0 |
| 77.5° | 64.6 | 63.7 | 64.3 | 65.1 | 66.8 | 71.1 | 75.9 | 81.3 | 87.9 | 95.6 | 101.2 |
| 80° | 46.6 | 46.9 | 48.3 | 50.1 | 50.6 | 53.8 | 58.9 | 63.7 | 68.5 | 74.8 | 80.2 |
| 82.5° | 32.1 | 32.4 | 33.0 | 35.3 | 35.8 | 39.2 | 42.1 | 46.9 | 51.2 | 54.9 | 59.2 |
| 85° | 19.1 | 19.1 | 20.5 | 21.3 | 22.8 | 25.0 | 27.0 | 29.9 | 33.8 | 36.7 | 41.0 |
| 87.5° | 9.1 | 9.1 | 10.2 | 10.8 | 11.7 | 13.1 | 13.7 | 16.8 | 17.9 | 19.3 | 21.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P334106

CATALOG NUMBER: S124DS-S575D927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 686.6 | 686.6 | 686.6 | 686.6 |
| 2.5° | 646.2 | 645.6 | 643.6 | 643.3 |
| 5° | 604.4 | 602.9 | 602.1 | 605.2 |
| 7.5° | 572.8 | 571.7 | 569.1 | 568.2 |
| 10° | 542.6 | 541.5 | 539.2 | 538.7 |
| 12.5° | 513.6 | 511.1 | 511.1 | 511.9 |
| 15° | 488.6 | 487.5 | 484.3 | 485.2 |
| 17.5° | 463.0 | 461.9 | 457.6 | 461.9 |
| 20° | 439.1 | 436.8 | 434.9 | 434.6 |
| 22.5° | 416.4 | 414.4 | 414.7 | 412.4 |
| 25° | 398.2 | 396.2 | 395.6 | 394.2 |
| 27.5° | 383.4 | 382.2 | 381.1 | 381.7 |
| 30° | 370.0 | 369.7 | 369.2 | 369.2 |
| 32.5° | 358.9 | 358.9 | 359.5 | 359.5 |
| 35° | 348.7 | 349.5 | 350.1 | 349.2 |
| 37.5° | 339.6 | 340.1 | 341.0 | 341.9 |
| 40° | 328.8 | 330.8 | 331.3 | 332.8 |
| 42.5° | 318.5 | 320.8 | 322.5 | 322.5 |
| 45° | 308.0 | 310.3 | 312.3 | 312.3 |
| 47.5° | 297.2 | 300.3 | 302.3 | 302.6 |
| 50° | 286.1 | 290.1 | 292.1 | 293.5 |
| 52.5° | 275.3 | 279.3 | 282.1 | 282.7 |
| 55° | 262.5 | 268.2 | 271.3 | 272.5 |
| 57.5° | 251.1 | 256.2 | 259.7 | 260.5 |
| 60° | 237.5 | 243.2 | 247.7 | 248.6 |
| 62.5° | 223.5 | 229.5 | 233.5 | 236.1 |
| 65° | 207.0 | 213.0 | 217.0 | 217.9 |
| 67.5° | 189.7 | 196.0 | 198.5 | 200.2 |
| 70° | 171.2 | 176.0 | 178.9 | 180.3 |
| 72.5° | 150.2 | 155.3 | 158.7 | 158.7 |
| 75° | 128.6 | 133.1 | 134.8 | 134.8 |
| 77.5° | 106.1 | 108.6 | 110.9 | 111.5 |
| 80° | 84.5 | 85.9 | 87.6 | 87.6 |
| 82.5° | 62.3 | 63.4 | 65.1 | 64.8 |
| 85° | 40.4 | 42.9 | 42.7 | 42.1 |
| 87.5° | 22.8 | 23.0 | 23.9 | 24.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)