

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: P333931

Luminaire Tested: **S123DP-S560D927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DP-S560D927-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT LED LUMINAIRE, ASYMMETRIC DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 560 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

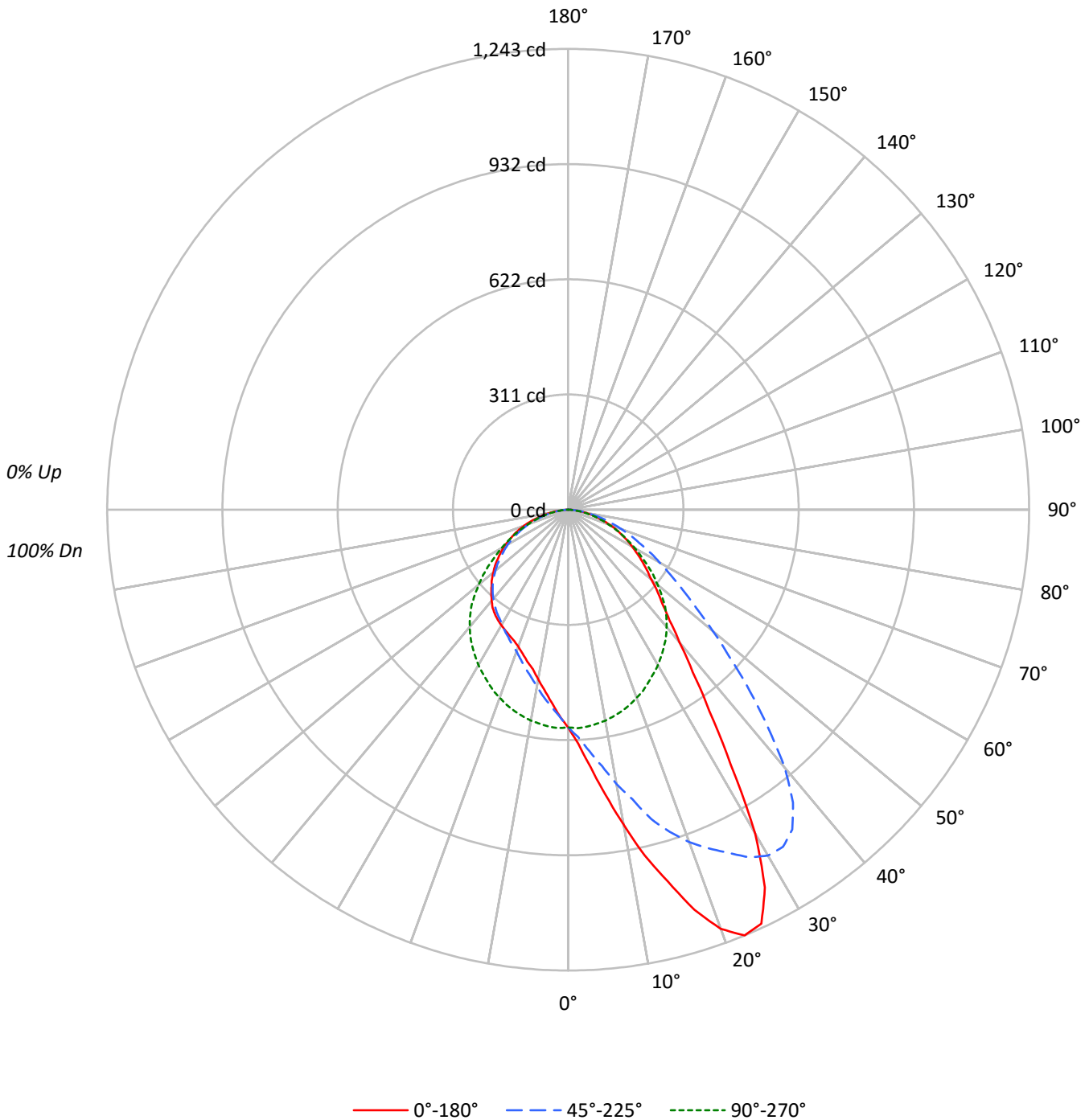
Lumens per Lamp: N/A
Luminaire Lumens: 1771.7 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.5
Luminous Opening: Rectangular (W 4' x L: 0.5' x H: 0')
CIE Type: Direct

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: P333931
CATALOG NUMBER: S123DP-S560D927-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P333931

CATALOG NUMBER: S123DP-S560D927-4F0-1E-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 | 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 | | | | | 100 | | | |
| 1 | 110 | 105 | 101 | 98 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | | | 85 | | | |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 78 | 74 | 72 | | | | | 72 | | | |
| 3 | 92 | 82 | 74 | 68 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 75 | 69 | 65 | 72 | 68 | 64 | 62 | | | | | 62 | | | |
| 4 | 84 | 73 | 65 | 58 | 82 | 72 | 64 | 58 | 69 | 62 | 57 | 67 | 61 | 56 | 65 | 60 | 56 | 53 | | | | | 53 | | | |
| 5 | 78 | 66 | 57 | 51 | 76 | 64 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 49 | 59 | 53 | 49 | 47 | | | | | 47 | | | |
| 6 | 72 | 59 | 51 | 44 | 70 | 58 | 50 | 44 | 56 | 49 | 44 | 55 | 48 | 43 | 53 | 48 | 43 | 41 | | | | | 41 | | | |
| 7 | 67 | 54 | 45 | 39 | 65 | 53 | 45 | 39 | 52 | 44 | 39 | 50 | 44 | 39 | 49 | 43 | 38 | 36 | | | | | 36 | | | |
| 8 | 62 | 49 | 41 | 35 | 61 | 49 | 41 | 35 | 47 | 40 | 35 | 46 | 39 | 35 | 45 | 39 | 35 | 33 | | | | | 33 | | | |
| 9 | 58 | 45 | 37 | 32 | 57 | 45 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 31 | 41 | 36 | 31 | 29 | | | | | 29 | | | |
| 10 | 55 | 42 | 34 | 29 | 53 | 41 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 29 | 38 | 33 | 28 | 27 | | | | | 27 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|------|------|------|
| 0° | 3159 | 3159 | 3159 |
| 5° | 3767 | 3173 | 2811 |
| 10° | 4715 | 3157 | 2540 |
| 15° | 5784 | 3131 | 2364 |
| 20° | 6890 | 3092 | 2251 |
| 25° | 7316 | 3043 | 2226 |
| 30° | 6270 | 3008 | 2237 |
| 35° | 4361 | 2958 | 2261 |
| 40° | 3284 | 2899 | 2254 |
| 45° | 2727 | 2812 | 2226 |
| 50° | 2443 | 2633 | 2205 |
| 55° | 2284 | 2441 | 2178 |
| 60° | 2143 | 2241 | 2155 |
| 65° | 2013 | 2043 | 2086 |
| 70° | 1888 | 1817 | 1987 |
| 75° | 1691 | 1591 | 1822 |
| 80° | 1481 | 1305 | 1568 |
| 85° | 1161 | 951 | 1056 |



TEST NUMBER: P333931

CATALOG NUMBER: S123DP-S560D927-4F0-1E-UDD-A

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 57.7 | 3.3 |
| 10°-20° | 185.4 | 10.5 |
| 20°-30° | 312.0 | 17.6 |
| 30°-40° | 352.6 | 19.9 |
| 40°-50° | 315.8 | 17.8 |
| 50°-60° | 254.9 | 14.4 |
| 60°-70° | 177.6 | 10.0 |
| 70°-80° | 93.2 | 5.3 |
| 80°-90° | 22.3 | 1.3 |
| 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° | 555.1 | 31.3 |
| 0°-40° | 907.7 | 51.2 |
| 0°-60° | 1478.5 | 83.5 |
| 0°-90° | 1771.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1771.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 587 | 587 | 587 | 587 | 587 | |
| 5° | 697 | 654 | 587 | 532 | 520 | 72 |
| 15° | 1038 | 864 | 562 | 443 | 424 | 300 |
| 25° | 1232 | 1021 | 512 | 381 | 375 | 545 |
| 35° | 664 | 1053 | 450 | 336 | 344 | 428 |
| 45° | 358 | 694 | 369 | 288 | 292 | 283 |
| 55° | 243 | 377 | 260 | 222 | 232 | 218 |
| 65° | 158 | 211 | 160 | 151 | 164 | 158 |
| 75° | 81 | 100 | 76 | 76 | 88 | 87 |
| 85° | 19 | 22 | 15 | 15 | 17 | 23 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P333931

CATALOG NUMBER: S123DP-S560D927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 587.0 | 587.0 | 587.0 | 587.0 | 587.0 | 587.0 | 587.0 | 587.0 | 587.0 | 587.0 | 587.0 |
| 2.5° | 631.9 | 631.4 | 629.9 | 631.1 | 628.8 | 625.7 | 625.4 | 622.5 | 614.3 | 613.7 | 611.4 |
| 5° | 697.3 | 695.1 | 694.8 | 694.5 | 690.5 | 685.1 | 674.9 | 674.0 | 660.4 | 653.5 | 645.3 |
| 7.5° | 776.4 | 775.5 | 773.3 | 770.7 | 757.3 | 750.8 | 741.1 | 728.6 | 712.7 | 697.3 | 687.7 |
| 10° | 862.8 | 872.2 | 860.6 | 852.6 | 845.2 | 831.3 | 815.1 | 794.9 | 774.7 | 751.1 | 733.2 |
| 12.5° | 955.6 | 959.0 | 959.0 | 951.6 | 939.1 | 916.0 | 884.2 | 861.4 | 843.2 | 800.0 | 784.6 |
| 15° | 1038.0 | 1055.4 | 1044.3 | 1018.7 | 1019.3 | 999.1 | 961.5 | 920.3 | 898.4 | 864.0 | 817.1 |
| 17.5° | 1131.3 | 1134.4 | 1131.0 | 1107.1 | 1095.5 | 1066.2 | 1032.3 | 994.0 | 952.7 | 910.9 | 862.3 |
| 20° | 1203.0 | 1201.3 | 1191.3 | 1180.2 | 1155.8 | 1134.2 | 1096.3 | 1052.3 | 995.4 | 954.4 | 900.1 |
| 22.5° | 1242.8 | 1239.7 | 1236.3 | 1227.4 | 1208.1 | 1184.5 | 1151.5 | 1102.3 | 1048.8 | 988.5 | 923.7 |
| 25° | 1232.0 | 1235.7 | 1236.3 | 1233.7 | 1226.6 | 1212.6 | 1185.9 | 1147.5 | 1093.5 | 1021.0 | 955.6 |
| 27.5° | 1148.4 | 1157.8 | 1169.7 | 1177.7 | 1190.5 | 1199.0 | 1190.5 | 1166.3 | 1121.9 | 1057.1 | 976.6 |
| 30° | 1009.0 | 997.6 | 1025.8 | 1061.4 | 1085.5 | 1128.2 | 1152.1 | 1153.5 | 1131.0 | 1077.3 | 999.4 |
| 32.5° | 815.6 | 834.1 | 842.7 | 888.4 | 948.4 | 997.6 | 1051.1 | 1098.6 | 1109.7 | 1078.4 | 1012.7 |
| 35° | 663.8 | 679.4 | 702.2 | 724.9 | 781.8 | 830.7 | 914.3 | 987.1 | 1045.1 | 1052.8 | 1011.0 |
| 37.5° | 551.7 | 560.8 | 574.8 | 598.9 | 637.9 | 698.5 | 764.7 | 859.4 | 939.3 | 995.7 | 990.0 |
| 40° | 467.5 | 469.8 | 486.0 | 503.4 | 533.5 | 581.3 | 639.6 | 720.9 | 821.6 | 908.9 | 945.3 |
| 42.5° | 404.4 | 410.1 | 414.6 | 431.1 | 453.6 | 486.6 | 539.8 | 603.5 | 693.6 | 797.4 | 877.3 |
| 45° | 358.3 | 364.0 | 368.3 | 379.4 | 396.4 | 420.6 | 458.4 | 519.9 | 590.1 | 693.9 | 789.8 |
| 47.5° | 326.5 | 325.9 | 329.6 | 338.4 | 350.7 | 370.0 | 397.9 | 438.8 | 506.2 | 593.0 | 693.3 |
| 50° | 291.8 | 296.3 | 297.5 | 304.0 | 313.1 | 326.5 | 348.7 | 382.2 | 435.1 | 509.1 | 599.5 |
| 52.5° | 267.3 | 267.9 | 271.6 | 275.9 | 283.5 | 293.2 | 311.7 | 336.2 | 374.8 | 435.1 | 516.5 |
| 55° | 243.4 | 243.4 | 246.6 | 250.3 | 254.8 | 264.2 | 277.0 | 296.3 | 327.9 | 376.8 | 445.6 |
| 57.5° | 221.3 | 222.4 | 225.2 | 226.1 | 230.1 | 236.6 | 247.7 | 263.1 | 287.2 | 326.8 | 383.6 |
| 60° | 199.1 | 201.6 | 201.3 | 203.6 | 207.0 | 211.9 | 221.0 | 232.9 | 254.0 | 284.1 | 330.2 |
| 62.5° | 179.7 | 178.9 | 178.9 | 181.7 | 185.1 | 189.7 | 194.8 | 204.8 | 221.8 | 247.7 | 285.2 |
| 65° | 158.1 | 157.6 | 159.5 | 161.3 | 162.4 | 165.8 | 170.4 | 179.5 | 191.4 | 211.3 | 241.7 |
| 67.5° | 139.4 | 137.6 | 139.1 | 139.6 | 141.6 | 144.5 | 149.0 | 154.7 | 164.4 | 181.2 | 205.6 |
| 70° | 120.0 | 118.6 | 118.3 | 118.9 | 120.6 | 122.6 | 125.7 | 131.1 | 139.9 | 152.7 | 169.5 |
| 72.5° | 100.1 | 99.3 | 99.3 | 100.7 | 101.2 | 102.4 | 104.4 | 109.2 | 115.7 | 124.6 | 139.9 |
| 75° | 81.3 | 81.3 | 81.3 | 81.6 | 82.5 | 83.6 | 85.3 | 87.9 | 93.3 | 100.1 | 110.6 |
| 77.5° | 64.3 | 64.6 | 64.0 | 63.7 | 65.1 | 65.7 | 66.0 | 68.8 | 72.0 | 77.1 | 85.3 |
| 80° | 47.8 | 46.4 | 46.9 | 47.8 | 48.3 | 48.6 | 49.5 | 50.1 | 52.6 | 55.2 | 60.6 |
| 82.5° | 32.4 | 31.3 | 31.3 | 32.7 | 32.7 | 33.0 | 33.8 | 34.7 | 35.3 | 37.5 | 39.8 |
| 85° | 18.8 | 18.8 | 19.1 | 19.1 | 19.3 | 19.1 | 19.9 | 20.2 | 20.2 | 21.6 | 23.3 |
| 87.5° | 8.5 | 8.0 | 8.2 | 8.5 | 8.2 | 8.5 | 8.8 | 9.1 | 9.4 | 9.7 | 10.0 |
| 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: P333931

CATALOG NUMBER: S123DP-S560D927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 587.0 | 587.0 | 587.0 | 587.0 | 587.0 | 587.0 | 587.0 | 587.0 | 587.0 | 587.0 | 587.0 |
| 2.5° | 609.7 | 607.5 | 605.2 | 601.2 | 597.8 | 593.0 | 591.5 | 589.8 | 584.7 | 580.2 | 576.7 |
| 5° | 642.2 | 635.3 | 625.4 | 616.3 | 608.9 | 598.9 | 593.2 | 587.3 | 578.7 | 571.1 | 564.8 |
| 7.5° | 673.2 | 661.2 | 647.3 | 632.2 | 617.7 | 603.8 | 592.7 | 582.7 | 571.6 | 560.8 | 552.6 |
| 10° | 711.5 | 692.2 | 670.6 | 647.3 | 627.4 | 608.0 | 591.8 | 577.6 | 562.2 | 548.9 | 537.8 |
| 12.5° | 755.3 | 724.3 | 692.5 | 662.9 | 638.5 | 609.7 | 589.3 | 570.2 | 552.3 | 535.5 | 522.7 |
| 15° | 788.1 | 751.6 | 716.4 | 677.4 | 641.6 | 608.0 | 584.7 | 562.0 | 541.8 | 525.3 | 509.3 |
| 17.5° | 820.5 | 780.7 | 735.7 | 688.8 | 646.7 | 608.0 | 576.2 | 551.7 | 527.0 | 507.1 | 491.7 |
| 20° | 847.2 | 800.3 | 747.7 | 698.5 | 650.7 | 606.3 | 570.5 | 539.8 | 512.5 | 491.1 | 473.2 |
| 22.5° | 870.2 | 813.4 | 758.5 | 705.0 | 650.4 | 601.8 | 560.0 | 528.1 | 498.0 | 477.2 | 457.9 |
| 25° | 884.7 | 819.0 | 764.4 | 702.7 | 643.3 | 593.8 | 548.3 | 512.5 | 482.9 | 458.4 | 438.8 |
| 27.5° | 898.4 | 818.2 | 756.5 | 689.9 | 634.8 | 585.6 | 536.6 | 498.3 | 467.3 | 440.8 | 420.6 |
| 30° | 912.0 | 819.6 | 742.5 | 676.9 | 621.1 | 569.9 | 522.7 | 484.0 | 451.0 | 424.0 | 405.3 |
| 32.5° | 920.6 | 818.8 | 729.8 | 658.7 | 599.5 | 555.7 | 507.6 | 467.3 | 433.1 | 406.7 | 388.8 |
| 35° | 922.9 | 813.9 | 714.7 | 632.2 | 575.9 | 531.8 | 491.7 | 450.2 | 414.6 | 389.9 | 369.4 |
| 37.5° | 918.0 | 805.1 | 698.2 | 608.3 | 547.5 | 503.7 | 468.7 | 433.1 | 399.0 | 371.4 | 353.5 |
| 40° | 902.4 | 796.6 | 678.3 | 582.7 | 517.9 | 476.1 | 447.3 | 412.7 | 379.1 | 353.2 | 336.7 |
| 42.5° | 872.5 | 779.2 | 656.4 | 554.3 | 487.2 | 445.4 | 419.5 | 391.9 | 360.6 | 336.7 | 320.2 |
| 45° | 820.2 | 752.5 | 634.5 | 525.8 | 457.0 | 413.8 | 390.5 | 369.4 | 340.7 | 317.1 | 302.9 |
| 47.5° | 753.4 | 716.4 | 602.9 | 496.0 | 425.5 | 383.6 | 359.2 | 341.8 | 319.4 | 300.3 | 286.4 |
| 50° | 683.1 | 669.7 | 570.8 | 465.3 | 393.9 | 353.2 | 329.9 | 314.5 | 299.5 | 280.4 | 267.9 |
| 52.5° | 602.1 | 615.7 | 533.2 | 433.4 | 361.7 | 321.9 | 300.3 | 288.9 | 275.6 | 260.8 | 250.3 |
| 55° | 527.0 | 556.8 | 488.9 | 397.0 | 329.9 | 291.8 | 271.0 | 260.2 | 252.3 | 240.6 | 231.2 |
| 57.5° | 454.2 | 492.3 | 442.8 | 360.3 | 298.6 | 265.3 | 244.9 | 232.6 | 227.5 | 221.0 | 213.3 |
| 60° | 390.8 | 428.3 | 392.7 | 323.4 | 267.0 | 235.8 | 218.1 | 208.2 | 203.1 | 198.8 | 192.5 |
| 62.5° | 334.2 | 372.3 | 343.8 | 285.8 | 236.0 | 207.6 | 192.8 | 183.1 | 179.5 | 177.7 | 172.6 |
| 65° | 283.3 | 316.0 | 296.1 | 246.6 | 206.8 | 181.2 | 167.2 | 160.4 | 156.7 | 155.8 | 152.4 |
| 67.5° | 239.2 | 264.5 | 249.1 | 211.9 | 179.5 | 156.1 | 143.9 | 137.9 | 134.8 | 134.5 | 131.7 |
| 70° | 195.9 | 219.3 | 208.2 | 175.2 | 148.2 | 130.8 | 120.6 | 115.5 | 113.8 | 113.5 | 112.1 |
| 72.5° | 162.4 | 176.9 | 168.6 | 142.5 | 123.1 | 107.8 | 101.0 | 95.6 | 93.6 | 94.1 | 93.3 |
| 75° | 125.1 | 137.4 | 132.2 | 113.2 | 96.4 | 86.2 | 79.9 | 76.5 | 74.8 | 75.6 | 74.5 |
| 77.5° | 95.6 | 104.1 | 99.0 | 84.5 | 73.7 | 66.0 | 61.1 | 58.9 | 57.2 | 57.2 | 56.6 |
| 80° | 68.0 | 72.5 | 70.0 | 62.0 | 53.5 | 47.2 | 43.5 | 42.1 | 41.2 | 41.0 | 40.7 |
| 82.5° | 43.5 | 47.2 | 44.1 | 39.2 | 34.1 | 31.0 | 29.3 | 27.3 | 26.7 | 27.0 | 26.7 |
| 85° | 24.5 | 25.9 | 24.7 | 21.3 | 19.1 | 17.3 | 16.2 | 15.4 | 14.8 | 15.1 | 14.5 |
| 87.5° | 10.5 | 10.8 | 10.0 | 8.8 | 8.2 | 7.4 | 7.4 | 6.8 | 6.3 | 6.3 | 6.0 |
| 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: P333931

CATALOG NUMBER: S123DP-S560D927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 587.0 | 587.0 | 587.0 | 587.0 | 587.0 | 587.0 | 587.0 | 587.0 | 587.0 | 587.0 | 587.0 |
| 2.5° | 574.8 | 572.8 | 569.9 | 565.7 | 562.2 | 556.8 | 556.8 | 557.7 | 557.7 | 557.4 | 556.8 |
| 5° | 559.7 | 555.4 | 550.3 | 544.3 | 538.1 | 531.8 | 530.7 | 528.4 | 526.7 | 525.6 | 524.1 |
| 7.5° | 544.3 | 537.2 | 530.1 | 521.9 | 514.7 | 508.8 | 504.5 | 500.8 | 498.5 | 496.0 | 494.0 |
| 10° | 528.7 | 519.3 | 510.5 | 501.7 | 492.0 | 484.3 | 479.5 | 476.1 | 473.5 | 471.2 | 470.1 |
| 12.5° | 510.2 | 499.1 | 489.2 | 480.9 | 470.1 | 462.1 | 457.6 | 456.4 | 453.3 | 447.9 | 445.1 |
| 15° | 492.3 | 482.3 | 470.7 | 457.9 | 452.8 | 443.1 | 437.7 | 435.1 | 433.4 | 429.7 | 428.6 |
| 17.5° | 477.5 | 464.1 | 450.8 | 441.4 | 432.0 | 424.3 | 421.2 | 417.8 | 415.5 | 412.1 | 411.2 |
| 20° | 459.0 | 447.3 | 435.4 | 425.2 | 415.2 | 406.7 | 404.1 | 401.8 | 399.6 | 398.1 | 397.0 |
| 22.5° | 440.2 | 428.6 | 419.2 | 409.8 | 399.0 | 394.2 | 391.3 | 388.8 | 387.3 | 386.5 | 385.4 |
| 25° | 422.9 | 412.7 | 401.6 | 393.0 | 384.5 | 380.8 | 379.1 | 377.7 | 376.5 | 375.1 | 374.8 |
| 27.5° | 407.5 | 396.2 | 386.8 | 378.5 | 372.3 | 369.1 | 367.2 | 366.3 | 366.3 | 366.9 | 367.2 |
| 30° | 389.9 | 379.7 | 372.3 | 365.4 | 359.8 | 356.9 | 356.6 | 356.6 | 357.8 | 358.0 | 358.6 |
| 32.5° | 373.7 | 365.7 | 358.3 | 351.8 | 347.8 | 346.1 | 347.5 | 347.5 | 348.4 | 349.2 | 350.4 |
| 35° | 358.0 | 350.7 | 345.0 | 339.3 | 335.6 | 336.4 | 337.0 | 337.6 | 339.0 | 340.7 | 341.8 |
| 37.5° | 343.3 | 336.4 | 330.5 | 325.9 | 323.6 | 325.3 | 326.8 | 327.9 | 329.6 | 331.0 | 332.2 |
| 40° | 327.1 | 322.2 | 316.5 | 312.5 | 313.1 | 314.0 | 315.1 | 316.5 | 318.0 | 318.8 | 319.9 |
| 42.5° | 312.0 | 306.9 | 302.9 | 299.7 | 300.6 | 301.7 | 302.3 | 302.9 | 304.6 | 306.3 | 306.9 |
| 45° | 296.6 | 292.6 | 288.7 | 286.7 | 287.2 | 287.8 | 288.4 | 289.2 | 290.6 | 291.8 | 292.1 |
| 47.5° | 279.3 | 276.4 | 273.9 | 271.6 | 272.7 | 272.4 | 273.3 | 275.0 | 275.6 | 276.1 | 277.9 |
| 50° | 262.8 | 260.2 | 257.1 | 256.5 | 256.5 | 256.5 | 256.8 | 259.1 | 259.1 | 260.2 | 261.4 |
| 52.5° | 244.6 | 243.2 | 241.4 | 240.3 | 239.7 | 239.7 | 241.2 | 242.0 | 242.6 | 244.3 | 245.4 |
| 55° | 226.7 | 225.0 | 223.2 | 222.4 | 221.8 | 222.4 | 224.7 | 225.2 | 226.7 | 227.5 | 228.4 |
| 57.5° | 207.9 | 206.8 | 205.3 | 204.8 | 204.8 | 205.0 | 206.8 | 208.2 | 208.5 | 211.3 | 212.4 |
| 60° | 189.4 | 187.4 | 186.3 | 186.3 | 185.7 | 188.3 | 187.7 | 190.5 | 191.1 | 192.8 | 194.8 |
| 62.5° | 170.4 | 167.5 | 167.2 | 167.2 | 168.4 | 168.6 | 169.8 | 170.6 | 172.3 | 174.6 | 176.0 |
| 65° | 149.6 | 148.2 | 150.2 | 149.9 | 149.3 | 151.0 | 151.0 | 152.4 | 154.1 | 156.1 | 159.3 |
| 67.5° | 130.3 | 129.1 | 129.7 | 129.4 | 130.3 | 131.4 | 132.2 | 133.4 | 135.4 | 137.6 | 139.6 |
| 70° | 110.6 | 111.5 | 110.1 | 111.2 | 112.1 | 112.3 | 112.9 | 114.6 | 116.9 | 118.3 | 120.6 |
| 72.5° | 91.6 | 91.3 | 91.9 | 92.1 | 93.0 | 93.6 | 94.1 | 96.1 | 98.7 | 99.8 | 101.5 |
| 75° | 73.4 | 73.1 | 73.9 | 73.9 | 75.4 | 75.9 | 76.5 | 77.4 | 79.6 | 81.3 | 82.8 |
| 77.5° | 56.9 | 57.2 | 56.9 | 58.0 | 57.4 | 57.7 | 59.4 | 60.3 | 60.6 | 64.3 | 64.8 |
| 80° | 40.4 | 41.0 | 41.2 | 41.5 | 41.8 | 41.2 | 43.2 | 44.1 | 44.1 | 46.1 | 47.5 |
| 82.5° | 26.2 | 26.4 | 27.3 | 27.6 | 27.6 | 28.4 | 28.2 | 28.7 | 29.6 | 30.1 | 32.1 |
| 85° | 14.5 | 15.4 | 15.6 | 15.4 | 15.6 | 15.1 | 15.9 | 16.2 | 16.5 | 16.5 | 16.5 |
| 87.5° | 5.7 | 6.0 | 5.7 | 6.0 | 5.7 | 6.0 | 6.0 | 5.4 | 5.4 | 6.3 | 5.1 |
| 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: P333931

CATALOG NUMBER: S123DP-S560D927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 587.0 | 587.0 | 587.0 | 587.0 |
| 2.5° | 554.8 | 554.6 | 556.6 | 555.1 |
| 5° | 522.4 | 523.3 | 520.4 | 520.4 |
| 7.5° | 493.1 | 492.0 | 492.3 | 490.3 |
| 10° | 466.7 | 465.0 | 464.4 | 464.7 |
| 12.5° | 444.8 | 444.8 | 440.2 | 440.2 |
| 15° | 428.6 | 423.2 | 422.6 | 424.3 |
| 17.5° | 410.7 | 407.5 | 407.8 | 407.2 |
| 20° | 397.0 | 395.3 | 395.0 | 393.0 |
| 22.5° | 384.5 | 384.2 | 384.5 | 382.2 |
| 25° | 374.5 | 376.0 | 374.8 | 374.8 |
| 27.5° | 367.7 | 367.7 | 366.9 | 366.9 |
| 30° | 359.8 | 359.5 | 360.0 | 360.0 |
| 32.5° | 351.8 | 352.4 | 352.4 | 352.6 |
| 35° | 343.5 | 343.8 | 344.7 | 344.1 |
| 37.5° | 332.7 | 334.2 | 333.9 | 334.4 |
| 40° | 320.2 | 321.1 | 320.8 | 320.8 |
| 42.5° | 307.4 | 308.0 | 307.1 | 306.6 |
| 45° | 293.2 | 292.6 | 293.5 | 292.4 |
| 47.5° | 277.6 | 277.9 | 278.1 | 279.3 |
| 50° | 261.9 | 263.6 | 263.6 | 263.3 |
| 52.5° | 246.6 | 247.1 | 248.6 | 248.6 |
| 55° | 230.6 | 231.2 | 231.8 | 232.1 |
| 57.5° | 214.4 | 214.1 | 215.3 | 215.6 |
| 60° | 197.1 | 197.1 | 199.4 | 200.2 |
| 62.5° | 178.6 | 179.7 | 182.0 | 180.3 |
| 65° | 160.7 | 163.0 | 162.7 | 163.8 |
| 67.5° | 141.9 | 143.3 | 145.6 | 145.6 |
| 70° | 122.9 | 124.3 | 125.4 | 126.3 |
| 72.5° | 104.4 | 104.9 | 108.1 | 106.4 |
| 75° | 84.7 | 86.7 | 88.4 | 87.6 |
| 77.5° | 66.0 | 68.5 | 69.1 | 68.3 |
| 80° | 49.5 | 49.2 | 50.9 | 50.6 |
| 82.5° | 33.0 | 32.7 | 33.3 | 33.6 |
| 85° | 17.6 | 18.5 | 17.3 | 17.1 |
| 87.5° | 5.1 | 5.1 | 4.8 | 4.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)