

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: METALUX

Report Number: P#

Luminaire Tested: **4SNLED-LD5-44SL-LW-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33520)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

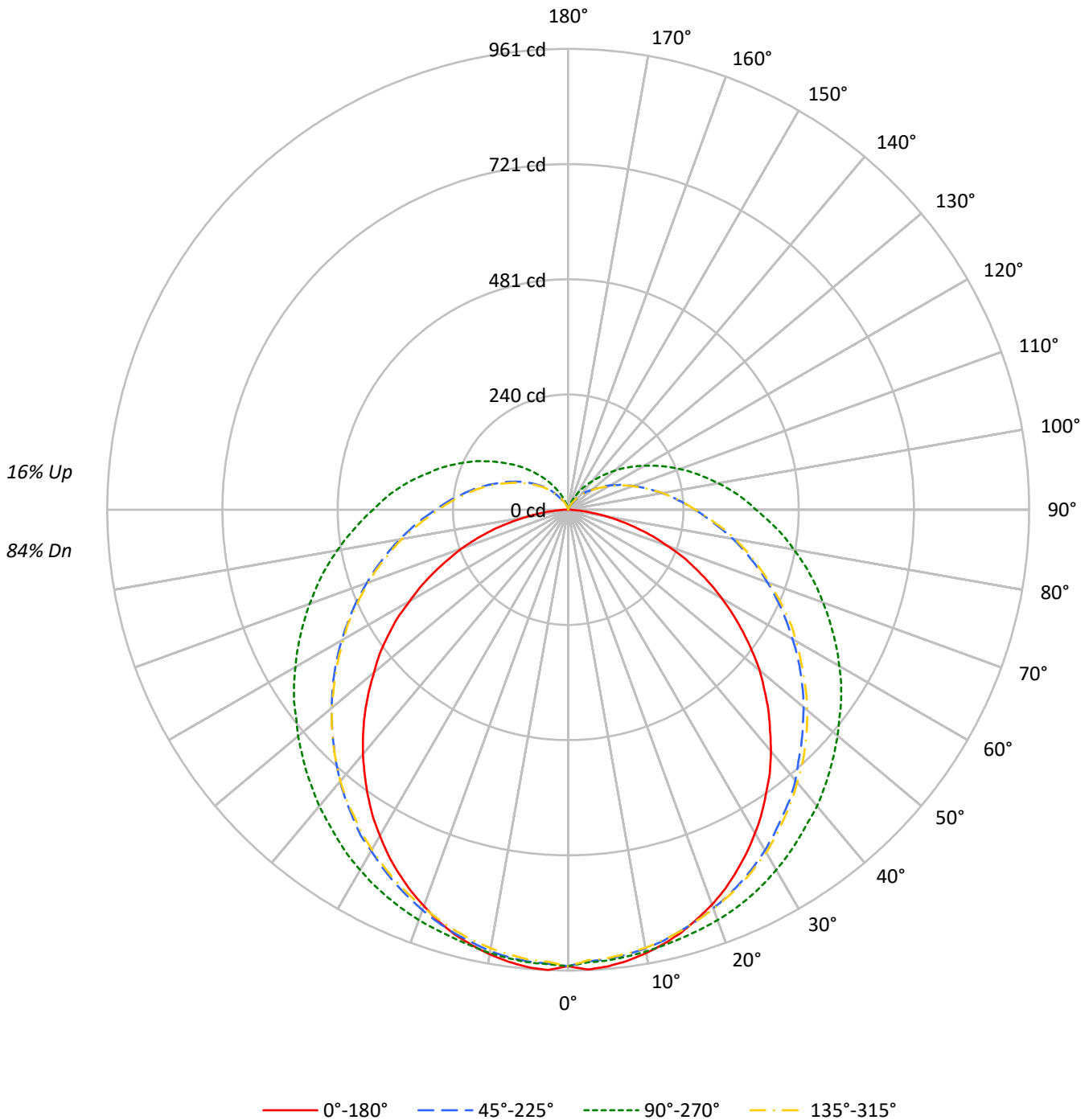
Lumens per Lamp: N/A
Luminaire Lumens: 4135.0 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 38
Input Voltage (V): NR
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: P#
CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U

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 | 115 | 115 | 115 | 115 | 111 | 111 | 111 | 111 | 102 | 102 | 102 | 94 | 94 | 94 | 87 | 87 | 87 | 84 |
| 1 | 102 | 96 | 91 | 86 | 98 | 92 | 87 | 83 | 85 | 81 | 77 | 78 | 75 | 72 | 72 | 70 | 67 | 64 |
| 2 | 92 | 82 | 74 | 68 | 87 | 79 | 72 | 66 | 73 | 67 | 62 | 67 | 62 | 58 | 62 | 58 | 54 | 51 |
| 3 | 83 | 71 | 62 | 55 | 79 | 69 | 60 | 54 | 63 | 56 | 51 | 58 | 52 | 48 | 54 | 49 | 45 | 42 |
| 4 | 76 | 63 | 53 | 46 | 72 | 60 | 52 | 45 | 56 | 48 | 42 | 51 | 45 | 40 | 47 | 42 | 38 | 35 |
| 5 | 69 | 56 | 46 | 39 | 66 | 54 | 45 | 38 | 50 | 42 | 36 | 46 | 39 | 34 | 42 | 37 | 33 | 30 |
| 6 | 64 | 50 | 41 | 34 | 61 | 48 | 39 | 33 | 45 | 37 | 31 | 41 | 35 | 30 | 38 | 33 | 28 | 26 |
| 7 | 59 | 45 | 36 | 30 | 56 | 43 | 35 | 29 | 40 | 33 | 28 | 38 | 31 | 26 | 35 | 29 | 25 | 23 |
| 8 | 55 | 41 | 32 | 26 | 52 | 40 | 31 | 26 | 37 | 30 | 24 | 34 | 28 | 23 | 32 | 26 | 22 | 20 |
| 9 | 51 | 37 | 29 | 23 | 49 | 36 | 28 | 23 | 34 | 27 | 22 | 32 | 25 | 21 | 30 | 24 | 20 | 18 |
| 10 | 48 | 34 | 26 | 21 | 46 | 33 | 26 | 21 | 31 | 24 | 20 | 29 | 23 | 19 | 27 | 22 | 18 | 16 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|------|------|------|------|
| 0° | 7692 | 7692 | 7692 | 7692 |
| 5° | 7732 | 7412 | 7748 | 7443 |
| 10° | 7660 | 7201 | 7685 | 7224 |
| 15° | 7571 | 7021 | 7605 | 7028 |
| 20° | 7453 | 6890 | 7478 | 6890 |
| 25° | 7306 | 6772 | 7350 | 6765 |
| 30° | 7141 | 6652 | 7196 | 6652 |
| 35° | 6949 | 6541 | 7027 | 6549 |
| 40° | 6760 | 6476 | 6842 | 6476 |
| 45° | 6542 | 6406 | 6643 | 6415 |
| 50° | 6316 | 6366 | 6401 | 6383 |
| 55° | 5999 | 6372 | 6188 | 6400 |
| 60° | 5665 | 6392 | 5849 | 6431 |
| 65° | 5290 | 6456 | 5523 | 6519 |
| 70° | 4763 | 6574 | 5133 | 6668 |
| 75° | 4155 | 6790 | 4547 | 6920 |
| 80° | 3214 | 7108 | 3653 | 7272 |
| 85° | 1920 | 7618 | 2398 | 7830 |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 90.2 | 2.2 |
| 10°-20° | 259.1 | 6.3 |
| 20°-30° | 397.3 | 9.6 |
| 30°-40° | 490.1 | 11.9 |
| 40°-50° | 531.7 | 12.9 |
| 50°-60° | 524.1 | 12.7 |
| 60°-70° | 473.9 | 11.5 |
| 70°-80° | 394.8 | 9.5 |
| 80°-90° | 305.8 | 7.4 |
| 90°-100° | 231.9 | 5.6 |
| 100°-110° | 171.6 | 4.2 |
| 110°-120° | 119.4 | 2.9 |
| 120°-130° | 76.2 | 1.8 |
| 130°-140° | 42.7 | 1.0 |
| 140°-150° | 19.5 | 0.5 |
| 150°-160° | 6.0 | 0.1 |
| 160°-170° | 0.8 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 746.6 | 18.1 |
| 0°-40° | 1236.7 | 29.9 |
| 0°-60° | 2292.5 | 55.4 |
| 0°-90° | 3466.9 | 83.8 |
| 90°-120° | 522.9 | 12.6 |
| 90°-150° | 661.3 | 16.0 |
| 90°-180° | 668.0 | 16.2 |
| 0°-180° | 4135.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|-----|-----|------|------|------|------|
| 0° | 952 | 952 | 952 | 952 | 952 | |
| 5° | 956 | 944 | 958 | 948 | 956 | 91 |
| 15° | 913 | 924 | 917 | 925 | 913 | 257 |
| 25° | 831 | 892 | 836 | 892 | 831 | 383 |
| 35° | 720 | 837 | 728 | 838 | 720 | 451 |
| 45° | 590 | 771 | 599 | 772 | 590 | 455 |
| 55° | 445 | 695 | 459 | 698 | 445 | 398 |
| 65° | 295 | 609 | 308 | 615 | 295 | 293 |
| 75° | 149 | 522 | 163 | 532 | 149 | 157 |
| 85° | 28 | 435 | 35 | 447 | 28 | 34 |
| 90° | 1 | 392 | 2 | 407 | 1 | 2 |
| 95° | 1 | 355 | 1 | 372 | 1 | 1 |
| 105° | 1 | 282 | 1 | 299 | 1 | 1 |
| 115° | 1 | 215 | 1 | 234 | 1 | 1 |
| 125° | 1 | 155 | 1 | 172 | 1 | 1 |
| 135° | 1 | 100 | 1 | 118 | 1 | 1 |
| 145° | 1 | 58 | 1 | 71 | 1 | 1 |
| 155° | 1 | 24 | 1 | 33 | 1 | 0 |
| 165° | 1 | 4 | 1 | 6 | 1 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 |
| 2.5° | 959.8 | 959.8 | 958.8 | 956.8 | 957.8 | 960.8 | 958.8 | 953.8 | 950.8 | 942.7 | 944.7 |
| 5° | 955.8 | 955.8 | 954.8 | 952.8 | 953.8 | 957.8 | 955.8 | 951.8 | 947.7 | 940.7 | 943.7 |
| 7.5° | 948.7 | 948.7 | 947.7 | 945.7 | 947.7 | 951.8 | 949.7 | 945.7 | 942.7 | 935.7 | 938.7 |
| 10° | 938.7 | 939.7 | 938.7 | 935.7 | 939.7 | 943.7 | 942.7 | 937.7 | 934.7 | 928.7 | 931.7 |
| 12.5° | 926.7 | 927.7 | 926.7 | 925.7 | 927.7 | 933.7 | 931.7 | 927.7 | 925.7 | 920.6 | 923.6 |
| 15° | 912.6 | 913.6 | 911.6 | 911.6 | 913.6 | 919.6 | 919.6 | 915.6 | 913.6 | 908.6 | 914.6 |
| 17.5° | 894.5 | 895.5 | 894.5 | 894.5 | 896.5 | 902.6 | 903.6 | 901.6 | 899.5 | 897.5 | 903.6 |
| 20° | 876.5 | 875.5 | 875.5 | 874.5 | 878.5 | 887.5 | 886.5 | 886.5 | 884.5 | 884.5 | 891.5 |
| 22.5° | 855.4 | 855.4 | 854.4 | 854.4 | 859.4 | 867.4 | 867.4 | 869.4 | 867.4 | 871.4 | 877.5 |
| 25° | 831.3 | 832.3 | 831.3 | 833.3 | 837.3 | 846.3 | 847.3 | 850.4 | 851.4 | 855.4 | 862.4 |
| 27.5° | 806.2 | 807.2 | 806.2 | 808.2 | 815.2 | 822.2 | 827.3 | 831.3 | 832.3 | 838.3 | 847.3 |
| 30° | 779.1 | 779.1 | 780.1 | 782.1 | 790.1 | 801.2 | 805.2 | 810.2 | 810.2 | 820.2 | 829.3 |
| 32.5° | 751.0 | 751.0 | 751.0 | 755.0 | 764.0 | 777.1 | 782.1 | 788.1 | 790.1 | 800.2 | 810.2 |
| 35° | 719.8 | 720.8 | 720.8 | 723.9 | 735.9 | 749.0 | 756.0 | 763.0 | 767.0 | 779.1 | 789.1 |
| 37.5° | 690.7 | 692.7 | 689.7 | 693.7 | 710.8 | 721.8 | 729.9 | 736.9 | 743.9 | 760.0 | 768.0 |
| 40° | 657.6 | 659.6 | 658.6 | 666.6 | 680.7 | 694.7 | 703.8 | 710.8 | 720.8 | 736.9 | 745.9 |
| 42.5° | 622.5 | 624.5 | 626.5 | 635.5 | 650.6 | 664.6 | 675.7 | 684.7 | 696.7 | 710.8 | 725.9 |
| 45° | 590.3 | 590.3 | 593.3 | 604.4 | 620.4 | 635.5 | 648.6 | 658.6 | 672.7 | 687.7 | 702.8 |
| 47.5° | 554.2 | 555.2 | 559.2 | 572.3 | 589.3 | 607.4 | 619.4 | 632.5 | 647.6 | 663.6 | 680.7 |
| 50° | 521.1 | 521.1 | 527.1 | 541.1 | 557.2 | 577.3 | 590.3 | 605.4 | 621.5 | 640.5 | 657.6 |
| 52.5° | 482.9 | 484.9 | 493.9 | 507.0 | 528.1 | 546.2 | 561.2 | 577.3 | 596.4 | 616.4 | 635.5 |
| 55° | 444.8 | 448.8 | 455.8 | 473.9 | 496.0 | 513.0 | 531.1 | 551.2 | 569.2 | 591.3 | 613.4 |
| 57.5° | 407.6 | 410.6 | 421.7 | 439.7 | 462.8 | 483.9 | 503.0 | 522.1 | 544.1 | 566.2 | 589.3 |
| 60° | 369.5 | 373.5 | 386.5 | 404.6 | 429.7 | 451.8 | 473.9 | 493.9 | 517.0 | 540.1 | 564.2 |
| 62.5° | 333.3 | 336.3 | 351.4 | 372.5 | 397.6 | 421.7 | 443.8 | 467.8 | 492.9 | 515.0 | 539.1 |
| 65° | 295.2 | 300.2 | 317.3 | 336.3 | 365.4 | 389.5 | 414.6 | 440.7 | 466.8 | 490.9 | 514.0 |
| 67.5° | 260.0 | 263.0 | 281.1 | 303.2 | 332.3 | 359.4 | 385.5 | 413.6 | 440.7 | 465.8 | 488.9 |
| 70° | 218.9 | 228.9 | 247.0 | 270.1 | 301.2 | 329.3 | 357.4 | 386.5 | 415.6 | 441.7 | 463.8 |
| 72.5° | 184.7 | 192.8 | 212.8 | 237.9 | 268.1 | 301.2 | 330.3 | 361.4 | 390.5 | 417.6 | 440.7 |
| 75° | 148.6 | 156.6 | 179.7 | 207.8 | 238.9 | 274.1 | 304.2 | 336.3 | 366.4 | 393.6 | 417.6 |
| 77.5° | 113.4 | 123.5 | 148.6 | 177.7 | 211.8 | 248.0 | 279.1 | 311.2 | 342.4 | 371.5 | 395.6 |
| 80° | 81.3 | 92.4 | 119.5 | 152.6 | 185.7 | 221.9 | 256.0 | 288.1 | 319.3 | 348.4 | 373.5 |
| 82.5° | 52.2 | 64.3 | 93.4 | 126.5 | 161.6 | 197.8 | 232.9 | 265.0 | 296.2 | 325.3 | 351.4 |
| 85° | 28.1 | 41.2 | 71.3 | 104.4 | 139.6 | 175.7 | 210.8 | 245.0 | 275.1 | 302.2 | 330.3 |
| 87.5° | 8.0 | 24.1 | 53.2 | 86.3 | 122.5 | 155.6 | 189.7 | 223.9 | 254.0 | 283.1 | 308.2 |
| 90° | 1.0 | 14.1 | 40.2 | 71.3 | 106.4 | 138.5 | 172.7 | 204.8 | 234.9 | 264.0 | 289.1 |
| 92.5° | 1.0 | 9.0 | 31.1 | 59.2 | 91.4 | 124.5 | 158.6 | 189.7 | 217.9 | 247.0 | 272.1 |
| 95° | 1.0 | 7.0 | 25.1 | 50.2 | 80.3 | 111.4 | 143.6 | 173.7 | 202.8 | 229.9 | 255.0 |
| 97.5° | 1.0 | 5.0 | 20.1 | 43.2 | 70.3 | 99.4 | 130.5 | 160.6 | 188.7 | 214.8 | 237.9 |
| 100° | 1.0 | 4.0 | 16.1 | 37.1 | 61.2 | 89.4 | 117.5 | 146.6 | 173.7 | 198.8 | 222.9 |
| 102.5° | 1.0 | 3.0 | 14.1 | 31.1 | 54.2 | 79.3 | 106.4 | 133.5 | 159.6 | 183.7 | 207.8 |
| 105° | 1.0 | 3.0 | 12.0 | 27.1 | 48.2 | 71.3 | 96.4 | 122.5 | 146.6 | 169.7 | 191.8 |
| 107.5° | 1.0 | 2.0 | 10.0 | 23.1 | 42.2 | 64.3 | 87.3 | 112.4 | 134.5 | 156.6 | 177.7 |
| 110° | 1.0 | 2.0 | 8.0 | 21.1 | 37.1 | 57.2 | 79.3 | 102.4 | 123.5 | 144.6 | 164.6 |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-----|-----|-----|------|------|------|------|------|-------|-------|-------|
| 112.5° | 1.0 | 2.0 | 7.0 | 18.1 | 32.1 | 51.2 | 71.3 | 92.4 | 112.4 | 133.5 | 151.6 |
| 115° | 1.0 | 2.0 | 6.0 | 16.1 | 30.1 | 44.2 | 64.3 | 83.3 | 103.4 | 122.5 | 139.6 |
| 117.5° | 1.0 | 2.0 | 5.0 | 13.1 | 26.1 | 40.2 | 56.2 | 75.3 | 93.4 | 111.4 | 127.5 |
| 120° | 1.0 | 2.0 | 4.0 | 12.0 | 23.1 | 36.1 | 50.2 | 67.3 | 84.3 | 101.4 | 118.5 |
| 122.5° | 1.0 | 1.0 | 4.0 | 10.0 | 20.1 | 32.1 | 46.2 | 59.2 | 75.3 | 91.4 | 106.4 |
| 125° | 1.0 | 1.0 | 4.0 | 9.0 | 17.1 | 29.1 | 41.2 | 53.2 | 67.3 | 81.3 | 94.4 |
| 127.5° | 1.0 | 1.0 | 3.0 | 7.0 | 15.1 | 25.1 | 36.1 | 49.2 | 59.2 | 72.3 | 85.3 |
| 130° | 1.0 | 1.0 | 3.0 | 6.0 | 13.1 | 21.1 | 32.1 | 43.2 | 55.2 | 64.3 | 75.3 |
| 132.5° | 1.0 | 1.0 | 3.0 | 5.0 | 10.0 | 17.1 | 27.1 | 37.1 | 48.2 | 58.2 | 67.3 |
| 135° | 1.0 | 1.0 | 2.0 | 4.0 | 8.0 | 14.1 | 22.1 | 31.1 | 42.2 | 52.2 | 61.2 |
| 137.5° | 1.0 | 1.0 | 2.0 | 4.0 | 6.0 | 12.0 | 17.1 | 25.1 | 35.1 | 44.2 | 53.2 |
| 140° | 1.0 | 1.0 | 2.0 | 3.0 | 5.0 | 9.0 | 14.1 | 20.1 | 28.1 | 36.1 | 46.2 |
| 142.5° | 1.0 | 1.0 | 1.0 | 3.0 | 4.0 | 7.0 | 11.0 | 16.1 | 22.1 | 29.1 | 37.1 |
| 145° | 1.0 | 1.0 | 1.0 | 3.0 | 4.0 | 5.0 | 9.0 | 13.1 | 17.1 | 22.1 | 29.1 |
| 147.5° | 1.0 | 1.0 | 1.0 | 2.0 | 3.0 | 4.0 | 7.0 | 10.0 | 13.1 | 17.1 | 21.1 |
| 150° | 1.0 | 1.0 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 7.0 | 10.0 | 14.1 | 17.1 |
| 152.5° | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 | 3.0 | 4.0 | 5.0 | 7.0 | 10.0 | 12.0 |
| 155° | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 3.0 | 4.0 | 4.0 | 5.0 | 7.0 | 9.0 |
| 157.5° | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 | 3.0 | 3.0 | 4.0 | 4.0 | 6.0 |
| 160° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| 162.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 | 2.0 | 3.0 | 3.0 |
| 165° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 | 2.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 |
| 2.5° | 944.7 | 945.7 | 948.7 | 948.7 | 946.7 | 946.7 | 945.7 | 944.7 | 945.7 | 947.7 | 947.7 |
| 5° | 942.7 | 943.7 | 946.7 | 947.7 | 945.7 | 944.7 | 944.7 | 943.7 | 944.7 | 946.7 | 946.7 |
| 7.5° | 938.7 | 939.7 | 942.7 | 943.7 | 941.7 | 941.7 | 940.7 | 939.7 | 941.7 | 942.7 | 942.7 |
| 10° | 932.7 | 933.7 | 937.7 | 938.7 | 937.7 | 936.7 | 936.7 | 935.7 | 936.7 | 938.7 | 938.7 |
| 12.5° | 924.6 | 926.7 | 931.7 | 931.7 | 931.7 | 930.7 | 930.7 | 929.7 | 930.7 | 932.7 | 931.7 |
| 15° | 915.6 | 919.6 | 923.6 | 925.7 | 925.7 | 925.7 | 924.6 | 923.6 | 925.7 | 926.7 | 925.7 |
| 17.5° | 905.6 | 910.6 | 916.6 | 918.6 | 918.6 | 919.6 | 918.6 | 917.6 | 919.6 | 919.6 | 918.6 |
| 20° | 895.5 | 900.6 | 906.6 | 908.6 | 910.6 | 911.6 | 911.6 | 910.6 | 911.6 | 912.6 | 911.6 |
| 22.5° | 882.5 | 888.5 | 895.5 | 898.5 | 900.6 | 902.6 | 902.6 | 902.6 | 903.6 | 904.6 | 902.6 |
| 25° | 868.4 | 875.5 | 883.5 | 886.5 | 890.5 | 891.5 | 892.5 | 892.5 | 893.5 | 894.5 | 891.5 |
| 27.5° | 853.4 | 861.4 | 869.4 | 874.5 | 877.5 | 879.5 | 879.5 | 880.5 | 881.5 | 882.5 | 879.5 |
| 30° | 835.3 | 847.3 | 854.4 | 858.4 | 862.4 | 865.4 | 866.4 | 867.4 | 868.4 | 869.4 | 866.4 |
| 32.5° | 819.2 | 829.3 | 838.3 | 843.3 | 848.3 | 852.4 | 853.4 | 853.4 | 855.4 | 855.4 | 852.4 |
| 35° | 800.2 | 812.2 | 821.2 | 826.3 | 832.3 | 835.3 | 837.3 | 837.3 | 839.3 | 839.3 | 836.3 |
| 37.5° | 781.1 | 793.1 | 803.2 | 809.2 | 816.2 | 820.2 | 821.2 | 821.2 | 823.2 | 823.2 | 819.2 |
| 40° | 761.0 | 774.1 | 785.1 | 792.1 | 798.1 | 803.2 | 804.2 | 807.2 | 807.2 | 806.2 | 802.2 |
| 42.5° | 740.9 | 753.0 | 765.0 | 773.1 | 781.1 | 786.1 | 788.1 | 789.1 | 789.1 | 788.1 | 785.1 |
| 45° | 718.8 | 732.9 | 743.9 | 754.0 | 762.0 | 767.0 | 770.0 | 771.0 | 771.0 | 769.0 | 766.0 |
| 47.5° | 697.8 | 711.8 | 722.9 | 733.9 | 741.9 | 748.0 | 751.0 | 752.0 | 751.0 | 750.0 | 746.9 |
| 50° | 675.7 | 691.7 | 702.8 | 713.8 | 721.8 | 726.9 | 731.9 | 732.9 | 731.9 | 730.9 | 724.9 |
| 52.5° | 652.6 | 669.6 | 681.7 | 692.7 | 701.8 | 707.8 | 711.8 | 712.8 | 712.8 | 710.8 | 706.8 |
| 55° | 629.5 | 644.5 | 659.6 | 671.7 | 681.7 | 687.7 | 692.7 | 694.7 | 692.7 | 690.7 | 685.7 |
| 57.5° | 608.4 | 622.5 | 637.5 | 650.6 | 660.6 | 668.6 | 672.7 | 674.7 | 672.7 | 669.6 | 664.6 |
| 60° | 583.3 | 598.4 | 615.4 | 627.5 | 638.5 | 646.6 | 648.6 | 652.6 | 650.6 | 647.6 | 642.5 |
| 62.5° | 559.2 | 577.3 | 592.3 | 607.4 | 616.4 | 625.5 | 629.5 | 631.5 | 629.5 | 626.5 | 621.5 |
| 65° | 534.1 | 554.2 | 569.2 | 584.3 | 594.3 | 603.4 | 608.4 | 609.4 | 607.4 | 604.4 | 599.4 |
| 67.5° | 511.0 | 530.1 | 546.2 | 562.2 | 571.3 | 580.3 | 585.3 | 587.3 | 585.3 | 581.3 | 576.3 |
| 70° | 487.9 | 507.0 | 526.1 | 538.1 | 549.2 | 559.2 | 562.2 | 565.2 | 563.2 | 559.2 | 553.2 |
| 72.5° | 464.8 | 484.9 | 504.0 | 516.0 | 528.1 | 537.1 | 541.1 | 544.1 | 542.1 | 538.1 | 531.1 |
| 75° | 440.7 | 461.8 | 480.9 | 493.9 | 506.0 | 515.0 | 519.0 | 522.1 | 520.1 | 516.0 | 508.0 |
| 77.5° | 418.7 | 439.7 | 457.8 | 471.9 | 483.9 | 491.9 | 499.0 | 500.0 | 498.0 | 493.9 | 485.9 |
| 80° | 395.6 | 416.6 | 435.7 | 449.8 | 461.8 | 469.9 | 474.9 | 477.9 | 475.9 | 471.9 | 463.8 |
| 82.5° | 375.5 | 394.6 | 413.6 | 427.7 | 439.7 | 449.8 | 453.8 | 456.8 | 455.8 | 449.8 | 443.8 |
| 85° | 353.4 | 375.5 | 390.5 | 405.6 | 417.6 | 427.7 | 430.7 | 434.7 | 433.7 | 428.7 | 420.7 |
| 87.5° | 331.3 | 353.4 | 371.5 | 386.5 | 397.6 | 405.6 | 410.6 | 412.6 | 411.6 | 406.6 | 397.6 |
| 90° | 313.2 | 333.3 | 351.4 | 367.4 | 376.5 | 385.5 | 390.5 | 391.5 | 391.5 | 385.5 | 378.5 |
| 92.5° | 296.2 | 315.2 | 333.3 | 348.4 | 359.4 | 367.4 | 371.5 | 373.5 | 372.5 | 367.4 | 359.4 |
| 95° | 277.1 | 298.2 | 315.2 | 330.3 | 341.3 | 349.4 | 353.4 | 355.4 | 354.4 | 349.4 | 341.3 |
| 97.5° | 261.0 | 280.1 | 297.2 | 311.2 | 322.3 | 330.3 | 334.3 | 336.3 | 336.3 | 331.3 | 323.3 |
| 100° | 245.0 | 264.0 | 280.1 | 294.2 | 304.2 | 312.2 | 316.2 | 317.3 | 316.2 | 312.2 | 304.2 |
| 102.5° | 228.9 | 247.0 | 263.0 | 276.1 | 287.1 | 294.2 | 298.2 | 299.2 | 299.2 | 294.2 | 286.1 |
| 105° | 212.8 | 230.9 | 246.0 | 260.0 | 269.1 | 276.1 | 279.1 | 282.1 | 281.1 | 277.1 | 269.1 |
| 107.5° | 197.8 | 215.9 | 229.9 | 243.0 | 252.0 | 259.0 | 262.0 | 265.0 | 264.0 | 260.0 | 252.0 |
| 110° | 183.7 | 200.8 | 213.8 | 226.9 | 234.9 | 242.0 | 247.0 | 248.0 | 246.0 | 242.0 | 234.9 |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 170.7 | 185.7 | 198.8 | 210.8 | 219.9 | 224.9 | 228.9 | 230.9 | 228.9 | 224.9 | 219.9 |
| 115° | 156.6 | 171.7 | 184.7 | 195.8 | 203.8 | 209.8 | 212.8 | 214.8 | 212.8 | 208.8 | 203.8 |
| 117.5° | 143.6 | 157.6 | 170.7 | 181.7 | 188.7 | 193.8 | 196.8 | 198.8 | 196.8 | 193.8 | 188.7 |
| 120° | 132.5 | 144.6 | 156.6 | 166.7 | 174.7 | 178.7 | 181.7 | 183.7 | 182.7 | 178.7 | 173.7 |
| 122.5° | 119.5 | 132.5 | 143.6 | 153.6 | 160.6 | 164.6 | 166.7 | 168.7 | 167.7 | 164.6 | 159.6 |
| 125° | 108.4 | 119.5 | 130.5 | 139.6 | 146.6 | 150.6 | 152.6 | 154.6 | 153.6 | 150.6 | 144.6 |
| 127.5° | 96.4 | 108.4 | 117.5 | 126.5 | 131.5 | 137.5 | 138.5 | 140.6 | 139.6 | 136.5 | 131.5 |
| 130° | 87.3 | 96.4 | 105.4 | 113.4 | 119.5 | 123.5 | 125.5 | 126.5 | 124.5 | 122.5 | 117.5 |
| 132.5° | 76.3 | 86.3 | 94.4 | 101.4 | 105.4 | 109.4 | 111.4 | 112.4 | 112.4 | 109.4 | 105.4 |
| 135° | 68.3 | 75.3 | 82.3 | 89.4 | 93.4 | 97.4 | 99.4 | 100.4 | 99.4 | 97.4 | 93.4 |
| 137.5° | 61.2 | 67.3 | 72.3 | 78.3 | 83.3 | 85.3 | 87.3 | 87.3 | 86.3 | 85.3 | 82.3 |
| 140° | 53.2 | 60.2 | 65.3 | 69.3 | 73.3 | 74.3 | 76.3 | 76.3 | 75.3 | 74.3 | 72.3 |
| 142.5° | 45.2 | 51.2 | 56.2 | 61.2 | 64.3 | 66.3 | 67.3 | 68.3 | 67.3 | 66.3 | 63.2 |
| 145° | 36.1 | 43.2 | 48.2 | 51.2 | 55.2 | 56.2 | 57.2 | 58.2 | 57.2 | 56.2 | 53.2 |
| 147.5° | 28.1 | 34.1 | 39.2 | 43.2 | 46.2 | 47.2 | 48.2 | 49.2 | 48.2 | 46.2 | 45.2 |
| 150° | 20.1 | 25.1 | 31.1 | 35.1 | 37.1 | 39.2 | 39.2 | 39.2 | 40.2 | 38.2 | 36.1 |
| 152.5° | 16.1 | 18.1 | 22.1 | 26.1 | 29.1 | 30.1 | 31.1 | 31.1 | 30.1 | 30.1 | 28.1 |
| 155° | 11.0 | 13.1 | 16.1 | 19.1 | 22.1 | 23.1 | 24.1 | 24.1 | 23.1 | 23.1 | 22.1 |
| 157.5° | 7.0 | 9.0 | 11.0 | 13.1 | 16.1 | 17.1 | 18.1 | 18.1 | 18.1 | 17.1 | 16.1 |
| 160° | 4.0 | 5.0 | 6.0 | 8.0 | 10.0 | 11.0 | 12.0 | 12.0 | 12.0 | 12.0 | 11.0 |
| 162.5° | 3.0 | 3.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 7.0 | 7.0 | 7.0 | 6.0 |
| 165° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 |
| 2.5° | 946.7 | 946.7 | 947.7 | 945.7 | 939.7 | 940.7 | 940.7 | 944.7 | 946.7 | 947.7 | 952.8 |
| 5° | 944.7 | 944.7 | 946.7 | 943.7 | 938.7 | 938.7 | 938.7 | 942.7 | 943.7 | 945.7 | 949.7 |
| 7.5° | 941.7 | 941.7 | 942.7 | 939.7 | 933.7 | 933.7 | 932.7 | 936.7 | 938.7 | 939.7 | 943.7 |
| 10° | 936.7 | 936.7 | 937.7 | 934.7 | 927.7 | 927.7 | 926.7 | 929.7 | 930.7 | 932.7 | 935.7 |
| 12.5° | 929.7 | 929.7 | 929.7 | 926.7 | 919.6 | 918.6 | 917.6 | 920.6 | 920.6 | 921.6 | 924.6 |
| 15° | 923.6 | 921.6 | 921.6 | 918.6 | 911.6 | 909.6 | 907.6 | 908.6 | 910.6 | 909.6 | 911.6 |
| 17.5° | 916.6 | 914.6 | 912.6 | 909.6 | 900.6 | 897.5 | 895.5 | 896.5 | 895.5 | 894.5 | 896.5 |
| 20° | 908.6 | 905.6 | 904.6 | 899.5 | 890.5 | 885.5 | 881.5 | 879.5 | 880.5 | 877.5 | 878.5 |
| 22.5° | 899.5 | 895.5 | 893.5 | 887.5 | 878.5 | 872.4 | 867.4 | 863.4 | 862.4 | 858.4 | 859.4 |
| 25° | 888.5 | 883.5 | 880.5 | 875.5 | 865.4 | 858.4 | 852.4 | 846.3 | 843.3 | 838.3 | 837.3 |
| 27.5° | 875.5 | 870.4 | 866.4 | 861.4 | 851.4 | 842.3 | 835.3 | 827.3 | 823.2 | 817.2 | 814.2 |
| 30° | 862.4 | 856.4 | 850.4 | 846.3 | 835.3 | 825.3 | 814.2 | 807.2 | 801.2 | 794.1 | 789.1 |
| 32.5° | 846.3 | 840.3 | 834.3 | 828.3 | 818.2 | 806.2 | 797.1 | 786.1 | 779.1 | 771.0 | 765.0 |
| 35° | 830.3 | 822.2 | 816.2 | 808.2 | 799.2 | 785.1 | 774.1 | 763.0 | 754.0 | 744.9 | 737.9 |
| 37.5° | 812.2 | 806.2 | 797.1 | 790.1 | 779.1 | 765.0 | 753.0 | 738.9 | 730.9 | 718.8 | 709.8 |
| 40° | 795.1 | 788.1 | 779.1 | 770.0 | 759.0 | 742.9 | 729.9 | 713.8 | 704.8 | 690.7 | 681.7 |
| 42.5° | 778.1 | 768.0 | 759.0 | 749.0 | 736.9 | 721.8 | 705.8 | 689.7 | 677.7 | 664.6 | 651.6 |
| 45° | 759.0 | 748.0 | 736.9 | 725.9 | 713.8 | 698.8 | 681.7 | 664.6 | 649.6 | 637.5 | 621.5 |
| 47.5° | 738.9 | 727.9 | 714.8 | 702.8 | 689.7 | 674.7 | 656.6 | 638.5 | 622.5 | 608.4 | 591.3 |
| 50° | 718.8 | 707.8 | 693.7 | 680.7 | 665.6 | 650.6 | 631.5 | 610.4 | 593.3 | 575.3 | 560.2 |
| 52.5° | 697.8 | 686.7 | 673.7 | 656.6 | 640.5 | 625.5 | 605.4 | 583.3 | 564.2 | 549.2 | 530.1 |
| 55° | 676.7 | 665.6 | 650.6 | 633.5 | 617.4 | 598.4 | 579.3 | 557.2 | 536.1 | 518.0 | 499.0 |
| 57.5° | 654.6 | 644.5 | 627.5 | 613.4 | 593.3 | 573.3 | 553.2 | 532.1 | 509.0 | 487.9 | 465.8 |
| 60° | 632.5 | 621.5 | 605.4 | 588.3 | 568.2 | 548.2 | 527.1 | 504.0 | 479.9 | 456.8 | 436.7 |
| 62.5° | 612.4 | 598.4 | 583.3 | 565.2 | 544.1 | 525.1 | 501.0 | 475.9 | 451.8 | 427.7 | 403.6 |
| 65° | 589.3 | 574.3 | 560.2 | 542.1 | 520.1 | 498.0 | 473.9 | 448.8 | 422.7 | 396.6 | 372.5 |
| 67.5° | 566.2 | 551.2 | 536.1 | 518.0 | 495.0 | 471.9 | 446.8 | 421.7 | 392.5 | 367.4 | 339.3 |
| 70° | 543.1 | 531.1 | 512.0 | 492.9 | 471.9 | 446.8 | 421.7 | 394.6 | 364.4 | 337.3 | 308.2 |
| 72.5° | 520.1 | 508.0 | 488.9 | 468.9 | 448.8 | 422.7 | 395.6 | 368.5 | 340.3 | 309.2 | 278.1 |
| 75° | 498.0 | 482.9 | 465.8 | 446.8 | 425.7 | 398.6 | 371.5 | 343.4 | 310.2 | 281.1 | 249.0 |
| 77.5° | 476.9 | 462.8 | 445.8 | 424.7 | 401.6 | 375.5 | 347.4 | 318.3 | 285.1 | 254.0 | 218.9 |
| 80° | 453.8 | 439.7 | 422.7 | 401.6 | 378.5 | 353.4 | 323.3 | 293.2 | 261.0 | 226.9 | 190.8 |
| 82.5° | 431.7 | 418.7 | 399.6 | 380.5 | 355.4 | 330.3 | 300.2 | 270.1 | 235.9 | 202.8 | 167.7 |
| 85° | 408.6 | 395.6 | 377.5 | 357.4 | 333.3 | 306.2 | 278.1 | 248.0 | 213.8 | 179.7 | 144.6 |
| 87.5° | 388.5 | 373.5 | 355.4 | 335.3 | 311.2 | 285.1 | 258.0 | 225.9 | 192.8 | 159.6 | 123.5 |
| 90° | 367.4 | 353.4 | 335.3 | 315.2 | 291.1 | 265.0 | 236.9 | 206.8 | 174.7 | 140.6 | 106.4 |
| 92.5° | 349.4 | 334.3 | 317.3 | 297.2 | 273.1 | 248.0 | 219.9 | 189.7 | 158.6 | 125.5 | 92.4 |
| 95° | 331.3 | 316.2 | 300.2 | 280.1 | 256.0 | 230.9 | 202.8 | 173.7 | 143.6 | 111.4 | 80.3 |
| 97.5° | 311.2 | 298.2 | 282.1 | 263.0 | 238.9 | 214.8 | 187.7 | 159.6 | 130.5 | 99.4 | 70.3 |
| 100° | 295.2 | 280.1 | 265.0 | 245.0 | 222.9 | 199.8 | 172.7 | 145.6 | 117.5 | 88.3 | 61.2 |
| 102.5° | 277.1 | 263.0 | 248.0 | 228.9 | 206.8 | 183.7 | 158.6 | 132.5 | 106.4 | 79.3 | 53.2 |
| 105° | 260.0 | 247.0 | 230.9 | 212.8 | 191.8 | 169.7 | 145.6 | 121.5 | 96.4 | 70.3 | 47.2 |
| 107.5° | 243.0 | 229.9 | 214.8 | 197.8 | 177.7 | 155.6 | 133.5 | 109.4 | 86.3 | 63.2 | 42.2 |
| 110° | 225.9 | 213.8 | 199.8 | 182.7 | 163.6 | 143.6 | 122.5 | 100.4 | 77.3 | 56.2 | 37.1 |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 112.5° | 210.8 | 198.8 | 184.7 | 168.7 | 150.6 | 131.5 | 111.4 | 90.4 | 69.3 | 50.2 | 32.1 |
| 115° | 195.8 | 184.7 | 170.7 | 156.6 | 138.5 | 120.5 | 101.4 | 81.3 | 62.2 | 45.2 | 28.1 |
| 117.5° | 180.7 | 169.7 | 156.6 | 142.6 | 126.5 | 109.4 | 91.4 | 72.3 | 56.2 | 40.2 | 25.1 |
| 120° | 165.7 | 155.6 | 143.6 | 130.5 | 116.5 | 99.4 | 81.3 | 65.3 | 50.2 | 35.1 | 22.1 |
| 122.5° | 151.6 | 142.6 | 131.5 | 119.5 | 104.4 | 88.3 | 73.3 | 59.2 | 45.2 | 31.1 | 18.1 |
| 125° | 138.5 | 129.5 | 119.5 | 107.4 | 93.4 | 79.3 | 66.3 | 53.2 | 39.2 | 27.1 | 15.1 |
| 127.5° | 125.5 | 116.5 | 106.4 | 95.4 | 84.3 | 71.3 | 59.2 | 47.2 | 35.1 | 24.1 | 13.1 |
| 130° | 112.4 | 104.4 | 95.4 | 86.3 | 75.3 | 63.2 | 53.2 | 41.2 | 30.1 | 19.1 | 11.0 |
| 132.5° | 99.4 | 93.4 | 85.3 | 76.3 | 66.3 | 57.2 | 46.2 | 36.1 | 26.1 | 17.1 | 10.0 |
| 135° | 88.3 | 82.3 | 75.3 | 67.3 | 59.2 | 50.2 | 40.2 | 31.1 | 22.1 | 14.1 | 8.0 |
| 137.5° | 78.3 | 73.3 | 66.3 | 59.2 | 52.2 | 43.2 | 35.1 | 26.1 | 18.1 | 12.0 | 6.0 |
| 140° | 69.3 | 64.3 | 58.2 | 51.2 | 45.2 | 37.1 | 29.1 | 21.1 | 16.1 | 10.0 | 5.0 |
| 142.5° | 60.2 | 55.2 | 50.2 | 44.2 | 38.2 | 31.1 | 24.1 | 18.1 | 13.1 | 8.0 | 5.0 |
| 145° | 51.2 | 47.2 | 42.2 | 37.1 | 31.1 | 25.1 | 20.1 | 15.1 | 10.0 | 6.0 | 4.0 |
| 147.5° | 42.2 | 39.2 | 34.1 | 30.1 | 25.1 | 20.1 | 16.1 | 12.0 | 8.0 | 5.0 | 3.0 |
| 150° | 34.1 | 31.1 | 27.1 | 23.1 | 20.1 | 16.1 | 13.1 | 9.0 | 6.0 | 5.0 | 3.0 |
| 152.5° | 26.1 | 24.1 | 21.1 | 19.1 | 16.1 | 12.0 | 9.0 | 7.0 | 5.0 | 4.0 | 2.0 |
| 155° | 21.1 | 19.1 | 17.1 | 14.1 | 12.0 | 9.0 | 7.0 | 5.0 | 4.0 | 3.0 | 2.0 |
| 157.5° | 15.1 | 14.1 | 12.0 | 10.0 | 8.0 | 6.0 | 5.0 | 5.0 | 3.0 | 2.0 | 1.0 |
| 160° | 10.0 | 9.0 | 8.0 | 6.0 | 5.0 | 5.0 | 4.0 | 3.0 | 2.0 | 2.0 | 1.0 |
| 162.5° | 6.0 | 5.0 | 5.0 | 5.0 | 4.0 | 4.0 | 3.0 | 2.0 | 2.0 | 1.0 | 1.0 |
| 165° | 4.0 | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 |
| 2.5° | 952.8 | 949.7 | 953.8 | 960.8 | 961.8 | 960.8 | 958.8 | 961.8 | 965.8 | 964.8 | 957.8 |
| 5° | 950.8 | 946.7 | 950.8 | 957.8 | 957.8 | 956.8 | 955.8 | 958.8 | 962.8 | 961.8 | 955.8 |
| 7.5° | 944.7 | 940.7 | 944.7 | 950.8 | 951.8 | 949.7 | 949.7 | 952.8 | 956.8 | 955.8 | 950.8 |
| 10° | 936.7 | 932.7 | 934.7 | 941.7 | 943.7 | 941.7 | 941.7 | 944.7 | 949.7 | 948.7 | 942.7 |
| 12.5° | 924.6 | 921.6 | 923.6 | 929.7 | 931.7 | 930.7 | 929.7 | 933.7 | 938.7 | 938.7 | 932.7 |
| 15° | 911.6 | 907.6 | 909.6 | 916.6 | 917.6 | 915.6 | 916.6 | 919.6 | 925.7 | 925.7 | 920.6 |
| 17.5° | 896.5 | 891.5 | 894.5 | 899.5 | 900.6 | 900.6 | 900.6 | 904.6 | 911.6 | 910.6 | 906.6 |
| 20° | 879.5 | 872.4 | 874.5 | 879.5 | 881.5 | 881.5 | 881.5 | 888.5 | 893.5 | 893.5 | 889.5 |
| 22.5° | 859.4 | 854.4 | 854.4 | 859.4 | 862.4 | 861.4 | 861.4 | 867.4 | 874.5 | 873.4 | 873.4 |
| 25° | 836.3 | 832.3 | 830.3 | 836.3 | 837.3 | 838.3 | 840.3 | 846.3 | 854.4 | 854.4 | 855.4 |
| 27.5° | 812.2 | 808.2 | 807.2 | 812.2 | 813.2 | 814.2 | 816.2 | 823.2 | 831.3 | 832.3 | 834.3 |
| 30° | 789.1 | 783.1 | 781.1 | 785.1 | 787.1 | 788.1 | 788.1 | 799.2 | 806.2 | 809.2 | 813.2 |
| 32.5° | 762.0 | 756.0 | 751.0 | 758.0 | 759.0 | 761.0 | 762.0 | 773.1 | 781.1 | 786.1 | 792.1 |
| 35° | 734.9 | 724.9 | 722.9 | 727.9 | 729.9 | 730.9 | 732.9 | 744.9 | 756.0 | 760.0 | 768.0 |
| 37.5° | 704.8 | 697.8 | 691.7 | 696.7 | 698.8 | 699.8 | 705.8 | 716.8 | 727.9 | 733.9 | 741.9 |
| 40° | 676.7 | 667.6 | 662.6 | 665.6 | 667.6 | 668.6 | 675.7 | 687.7 | 700.8 | 707.8 | 717.8 |
| 42.5° | 645.5 | 633.5 | 629.5 | 632.5 | 633.5 | 636.5 | 642.5 | 658.6 | 671.7 | 681.7 | 689.7 |
| 45° | 614.4 | 605.4 | 596.4 | 599.4 | 600.4 | 602.4 | 611.4 | 628.5 | 642.5 | 654.6 | 663.6 |
| 47.5° | 582.3 | 571.3 | 562.2 | 564.2 | 568.2 | 569.2 | 579.3 | 599.4 | 612.4 | 625.5 | 637.5 |
| 50° | 550.2 | 535.1 | 528.1 | 528.1 | 530.1 | 535.1 | 548.2 | 568.2 | 582.3 | 597.4 | 610.4 |
| 52.5° | 517.0 | 503.0 | 495.0 | 496.0 | 498.0 | 504.0 | 516.0 | 536.1 | 552.2 | 568.2 | 584.3 |
| 55° | 483.9 | 468.9 | 460.8 | 458.8 | 460.8 | 468.9 | 482.9 | 504.0 | 520.1 | 539.1 | 556.2 |
| 57.5° | 450.8 | 432.7 | 425.7 | 422.7 | 424.7 | 434.7 | 448.8 | 470.9 | 490.9 | 509.0 | 529.1 |
| 60° | 414.6 | 400.6 | 388.5 | 381.5 | 386.5 | 399.6 | 414.6 | 437.7 | 458.8 | 478.9 | 501.0 |
| 62.5° | 383.5 | 365.4 | 352.4 | 345.4 | 350.4 | 361.4 | 382.5 | 404.6 | 427.7 | 450.8 | 472.9 |
| 65° | 348.4 | 330.3 | 315.2 | 308.2 | 313.2 | 326.3 | 347.4 | 371.5 | 396.6 | 419.7 | 445.8 |
| 67.5° | 314.2 | 295.2 | 277.1 | 270.1 | 276.1 | 290.1 | 313.2 | 340.3 | 367.4 | 391.5 | 419.7 |
| 70° | 281.1 | 260.0 | 241.0 | 235.9 | 239.9 | 259.0 | 281.1 | 308.2 | 336.3 | 364.4 | 393.6 |
| 72.5° | 251.0 | 224.9 | 204.8 | 198.8 | 203.8 | 224.9 | 250.0 | 278.1 | 308.2 | 338.3 | 369.5 |
| 75° | 215.9 | 191.8 | 169.7 | 162.6 | 168.7 | 187.7 | 218.9 | 249.0 | 281.1 | 313.2 | 342.4 |
| 77.5° | 187.7 | 159.6 | 136.5 | 125.5 | 135.5 | 159.6 | 189.7 | 221.9 | 255.0 | 288.1 | 321.3 |
| 80° | 158.6 | 129.5 | 104.4 | 92.4 | 103.4 | 129.5 | 159.6 | 194.8 | 231.9 | 265.0 | 295.2 |
| 82.5° | 132.5 | 101.4 | 75.3 | 62.2 | 74.3 | 103.4 | 136.5 | 171.7 | 207.8 | 241.0 | 276.1 |
| 85° | 108.4 | 76.3 | 49.2 | 35.1 | 52.2 | 78.3 | 113.4 | 149.6 | 186.7 | 220.9 | 255.0 |
| 87.5° | 88.3 | 57.2 | 30.1 | 15.1 | 32.1 | 61.2 | 94.4 | 130.5 | 167.7 | 201.8 | 233.9 |
| 90° | 72.3 | 41.2 | 16.1 | 2.0 | 19.1 | 46.2 | 78.3 | 113.4 | 148.6 | 183.7 | 215.9 |
| 92.5° | 59.2 | 31.1 | 9.0 | 1.0 | 12.0 | 37.1 | 67.3 | 100.4 | 134.5 | 168.7 | 199.8 |
| 95° | 49.2 | 24.1 | 6.0 | 1.0 | 9.0 | 29.1 | 57.2 | 89.4 | 121.5 | 154.6 | 185.7 |
| 97.5° | 42.2 | 20.1 | 5.0 | 1.0 | 7.0 | 25.1 | 49.2 | 79.3 | 110.4 | 141.6 | 171.7 |
| 100° | 36.1 | 16.1 | 4.0 | 1.0 | 6.0 | 21.1 | 43.2 | 70.3 | 99.4 | 129.5 | 158.6 |
| 102.5° | 31.1 | 13.1 | 3.0 | 1.0 | 5.0 | 18.1 | 38.2 | 63.2 | 89.4 | 118.5 | 146.6 |
| 105° | 27.1 | 11.0 | 3.0 | 1.0 | 4.0 | 16.1 | 34.1 | 56.2 | 82.3 | 108.4 | 135.5 |
| 107.5° | 23.1 | 9.0 | 2.0 | 1.0 | 3.0 | 13.1 | 30.1 | 51.2 | 74.3 | 99.4 | 124.5 |
| 110° | 20.1 | 8.0 | 2.0 | 1.0 | 3.0 | 12.0 | 26.1 | 46.2 | 67.3 | 90.4 | 114.5 |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|------|------|------|------|------|------|------|------|------|------|-------|
| 112.5° | 17.1 | 6.0 | 2.0 | 1.0 | 2.0 | 10.0 | 23.1 | 41.2 | 61.2 | 82.3 | 105.4 |
| 115° | 15.1 | 5.0 | 1.0 | 1.0 | 2.0 | 9.0 | 21.1 | 37.1 | 55.2 | 75.3 | 96.4 |
| 117.5° | 12.0 | 4.0 | 1.0 | 1.0 | 1.0 | 7.0 | 18.1 | 33.1 | 50.2 | 69.3 | 88.3 |
| 120° | 10.0 | 4.0 | 1.0 | 1.0 | 1.0 | 6.0 | 16.1 | 29.1 | 45.2 | 62.2 | 80.3 |
| 122.5° | 9.0 | 3.0 | 1.0 | 1.0 | 1.0 | 5.0 | 14.1 | 26.1 | 40.2 | 56.2 | 73.3 |
| 125° | 8.0 | 3.0 | 1.0 | 1.0 | 1.0 | 4.0 | 12.0 | 23.1 | 36.1 | 50.2 | 66.3 |
| 127.5° | 6.0 | 3.0 | 1.0 | 1.0 | 1.0 | 3.0 | 11.0 | 20.1 | 32.1 | 45.2 | 59.2 |
| 130° | 5.0 | 2.0 | 1.0 | 1.0 | 1.0 | 3.0 | 9.0 | 18.1 | 28.1 | 40.2 | 53.2 |
| 132.5° | 4.0 | 2.0 | 1.0 | 1.0 | 1.0 | 2.0 | 7.0 | 14.1 | 24.1 | 35.1 | 47.2 |
| 135° | 4.0 | 2.0 | 1.0 | 1.0 | 1.0 | 2.0 | 5.0 | 12.0 | 20.1 | 30.1 | 40.2 |
| 137.5° | 4.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 4.0 | 9.0 | 16.1 | 24.1 | 33.1 |
| 140° | 3.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 3.0 | 7.0 | 13.1 | 20.1 | 28.1 |
| 142.5° | 3.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 3.0 | 5.0 | 10.0 | 16.1 | 22.1 |
| 145° | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 4.0 | 8.0 | 12.0 | 18.1 |
| 147.5° | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 3.0 | 6.0 | 10.0 | 14.1 |
| 150° | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 3.0 | 4.0 | 7.0 | 11.0 |
| 152.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 | 3.0 | 5.0 | 7.0 |
| 155° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 |
| 157.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 | 3.0 | 4.0 |
| 160° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 | 3.0 |
| 162.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| 165° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 |
| 2.5° | 954.8 | 947.7 | 949.7 | 948.7 | 950.8 | 953.8 | 953.8 | 952.8 | 952.8 | 950.8 | 948.7 |
| 5° | 952.8 | 945.7 | 948.7 | 947.7 | 949.7 | 952.8 | 952.8 | 951.8 | 951.8 | 948.7 | 947.7 |
| 7.5° | 946.7 | 941.7 | 943.7 | 943.7 | 945.7 | 948.7 | 948.7 | 947.7 | 947.7 | 944.7 | 943.7 |
| 10° | 940.7 | 934.7 | 937.7 | 937.7 | 939.7 | 943.7 | 943.7 | 942.7 | 942.7 | 939.7 | 938.7 |
| 12.5° | 930.7 | 924.6 | 929.7 | 930.7 | 932.7 | 936.7 | 935.7 | 935.7 | 935.7 | 932.7 | 931.7 |
| 15° | 918.6 | 914.6 | 919.6 | 920.6 | 923.6 | 928.7 | 928.7 | 928.7 | 928.7 | 925.7 | 924.6 |
| 17.5° | 905.6 | 902.6 | 907.6 | 909.6 | 913.6 | 918.6 | 918.6 | 919.6 | 920.6 | 918.6 | 917.6 |
| 20° | 890.5 | 888.5 | 893.5 | 897.5 | 903.6 | 908.6 | 910.6 | 911.6 | 913.6 | 911.6 | 910.6 |
| 22.5° | 873.4 | 873.4 | 880.5 | 884.5 | 891.5 | 896.5 | 899.5 | 902.6 | 904.6 | 902.6 | 901.6 |
| 25° | 854.4 | 857.4 | 864.4 | 871.4 | 879.5 | 884.5 | 887.5 | 891.5 | 893.5 | 892.5 | 891.5 |
| 27.5° | 836.3 | 840.3 | 849.4 | 856.4 | 863.4 | 871.4 | 874.5 | 879.5 | 881.5 | 881.5 | 880.5 |
| 30° | 815.2 | 821.2 | 831.3 | 839.3 | 848.3 | 856.4 | 860.4 | 865.4 | 868.4 | 866.4 | 867.4 |
| 32.5° | 795.1 | 805.2 | 813.2 | 822.2 | 832.3 | 840.3 | 845.3 | 851.4 | 854.4 | 853.4 | 854.4 |
| 35° | 773.1 | 783.1 | 794.1 | 803.2 | 815.2 | 823.2 | 830.3 | 835.3 | 839.3 | 838.3 | 838.3 |
| 37.5° | 749.0 | 762.0 | 773.1 | 785.1 | 796.1 | 805.2 | 812.2 | 818.2 | 822.2 | 822.2 | 822.2 |
| 40° | 725.9 | 739.9 | 751.0 | 765.0 | 779.1 | 787.1 | 795.1 | 801.2 | 805.2 | 806.2 | 807.2 |
| 42.5° | 700.8 | 715.8 | 728.9 | 743.9 | 758.0 | 768.0 | 777.1 | 784.1 | 788.1 | 790.1 | 789.1 |
| 45° | 677.7 | 691.7 | 706.8 | 723.9 | 736.9 | 746.9 | 758.0 | 766.0 | 770.0 | 771.0 | 772.0 |
| 47.5° | 651.6 | 667.6 | 684.7 | 701.8 | 714.8 | 727.9 | 737.9 | 745.9 | 750.0 | 753.0 | 753.0 |
| 50° | 626.5 | 643.5 | 662.6 | 680.7 | 694.7 | 707.8 | 717.8 | 726.9 | 731.9 | 733.9 | 734.9 |
| 52.5° | 603.4 | 619.4 | 639.5 | 657.6 | 671.7 | 684.7 | 697.8 | 707.8 | 712.8 | 714.8 | 714.8 |
| 55° | 575.3 | 595.3 | 617.4 | 634.5 | 649.6 | 664.6 | 677.7 | 687.7 | 692.7 | 695.7 | 697.8 |
| 57.5° | 549.2 | 570.3 | 593.3 | 611.4 | 629.5 | 643.5 | 655.6 | 668.6 | 672.7 | 676.7 | 677.7 |
| 60° | 524.1 | 545.2 | 567.2 | 587.3 | 605.4 | 620.4 | 634.5 | 645.5 | 652.6 | 654.6 | 656.6 |
| 62.5° | 498.0 | 520.1 | 543.1 | 563.2 | 582.3 | 600.4 | 613.4 | 623.5 | 631.5 | 634.5 | 636.5 |
| 65° | 472.9 | 496.0 | 519.0 | 540.1 | 560.2 | 578.3 | 591.3 | 601.4 | 609.4 | 614.4 | 615.4 |
| 67.5° | 445.8 | 470.9 | 495.0 | 517.0 | 537.1 | 556.2 | 569.2 | 579.3 | 587.3 | 593.3 | 594.3 |
| 70° | 420.7 | 446.8 | 470.9 | 495.0 | 515.0 | 534.1 | 548.2 | 558.2 | 567.2 | 571.3 | 573.3 |
| 72.5° | 396.6 | 423.7 | 448.8 | 472.9 | 492.9 | 512.0 | 527.1 | 537.1 | 546.2 | 551.2 | 552.2 |
| 75° | 373.5 | 400.6 | 427.7 | 450.8 | 471.9 | 490.9 | 506.0 | 517.0 | 525.1 | 530.1 | 532.1 |
| 77.5° | 350.4 | 378.5 | 405.6 | 428.7 | 450.8 | 469.9 | 482.9 | 496.0 | 504.0 | 510.0 | 510.0 |
| 80° | 327.3 | 356.4 | 384.5 | 407.6 | 429.7 | 446.8 | 461.8 | 474.9 | 482.9 | 488.9 | 488.9 |
| 82.5° | 307.2 | 335.3 | 362.4 | 385.5 | 407.6 | 426.7 | 441.7 | 453.8 | 462.8 | 466.8 | 467.8 |
| 85° | 284.1 | 315.2 | 340.3 | 365.4 | 386.5 | 404.6 | 419.7 | 432.7 | 440.7 | 444.8 | 446.8 |
| 87.5° | 265.0 | 295.2 | 322.3 | 344.4 | 365.4 | 383.5 | 400.6 | 411.6 | 419.7 | 424.7 | 426.7 |
| 90° | 247.0 | 276.1 | 303.2 | 325.3 | 347.4 | 364.4 | 380.5 | 391.5 | 400.6 | 404.6 | 406.6 |
| 92.5° | 230.9 | 260.0 | 286.1 | 308.2 | 329.3 | 348.4 | 363.4 | 374.5 | 382.5 | 386.5 | 389.5 |
| 95° | 215.9 | 244.0 | 269.1 | 293.2 | 313.2 | 330.3 | 346.4 | 357.4 | 366.4 | 369.5 | 372.5 |
| 97.5° | 200.8 | 227.9 | 253.0 | 276.1 | 297.2 | 313.2 | 328.3 | 339.3 | 346.4 | 351.4 | 354.4 |
| 100° | 187.7 | 213.8 | 237.9 | 260.0 | 280.1 | 295.2 | 311.2 | 321.3 | 328.3 | 332.3 | 336.3 |
| 102.5° | 173.7 | 199.8 | 222.9 | 244.0 | 265.0 | 279.1 | 294.2 | 304.2 | 310.2 | 317.3 | 317.3 |
| 105° | 161.6 | 185.7 | 208.8 | 228.9 | 247.0 | 264.0 | 277.1 | 287.1 | 294.2 | 299.2 | 299.2 |
| 107.5° | 148.6 | 172.7 | 194.8 | 215.9 | 232.9 | 249.0 | 261.0 | 270.1 | 278.1 | 281.1 | 284.1 |
| 110° | 138.5 | 159.6 | 181.7 | 201.8 | 217.9 | 232.9 | 245.0 | 255.0 | 262.0 | 265.0 | 267.1 |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 126.5 | 148.6 | 168.7 | 187.7 | 203.8 | 217.9 | 229.9 | 237.9 | 245.0 | 249.0 | 250.0 |
| 115° | 116.5 | 137.5 | 155.6 | 173.7 | 190.8 | 202.8 | 213.8 | 221.9 | 228.9 | 231.9 | 233.9 |
| 117.5° | 107.4 | 126.5 | 144.6 | 159.6 | 175.7 | 188.7 | 199.8 | 206.8 | 212.8 | 216.9 | 218.9 |
| 120° | 98.4 | 116.5 | 132.5 | 147.6 | 162.6 | 174.7 | 184.7 | 191.8 | 198.8 | 201.8 | 201.8 |
| 122.5° | 89.4 | 106.4 | 121.5 | 135.5 | 149.6 | 160.6 | 171.7 | 177.7 | 183.7 | 186.7 | 186.7 |
| 125° | 81.3 | 97.4 | 111.4 | 124.5 | 137.5 | 147.6 | 156.6 | 163.6 | 169.7 | 171.7 | 171.7 |
| 127.5° | 73.3 | 88.3 | 101.4 | 113.4 | 124.5 | 134.5 | 143.6 | 150.6 | 155.6 | 157.6 | 157.6 |
| 130° | 66.3 | 79.3 | 91.4 | 103.4 | 114.5 | 122.5 | 131.5 | 137.5 | 140.6 | 143.6 | 144.6 |
| 132.5° | 59.2 | 71.3 | 82.3 | 92.4 | 103.4 | 111.4 | 118.5 | 124.5 | 127.5 | 130.5 | 131.5 |
| 135° | 52.2 | 63.2 | 73.3 | 83.3 | 92.4 | 100.4 | 106.4 | 111.4 | 115.5 | 117.5 | 118.5 |
| 137.5° | 44.2 | 56.2 | 65.3 | 73.3 | 83.3 | 89.4 | 96.4 | 99.4 | 103.4 | 105.4 | 105.4 |
| 140° | 37.1 | 46.2 | 56.2 | 64.3 | 72.3 | 78.3 | 84.3 | 89.4 | 92.4 | 93.4 | 93.4 |
| 142.5° | 30.1 | 38.2 | 46.2 | 56.2 | 63.2 | 68.3 | 74.3 | 78.3 | 80.3 | 81.3 | 82.3 |
| 145° | 24.1 | 30.1 | 37.1 | 46.2 | 54.2 | 60.2 | 63.2 | 67.3 | 69.3 | 70.3 | 71.3 |
| 147.5° | 18.1 | 24.1 | 30.1 | 36.1 | 44.2 | 50.2 | 53.2 | 57.2 | 59.2 | 60.2 | 60.2 |
| 150° | 14.1 | 18.1 | 22.1 | 28.1 | 34.1 | 41.2 | 45.2 | 48.2 | 49.2 | 50.2 | 50.2 |
| 152.5° | 10.0 | 14.1 | 17.1 | 21.1 | 25.1 | 31.1 | 37.1 | 39.2 | 40.2 | 41.2 | 41.2 |
| 155° | 7.0 | 10.0 | 12.0 | 15.1 | 18.1 | 23.1 | 28.1 | 31.1 | 32.1 | 33.1 | 33.1 |
| 157.5° | 5.0 | 7.0 | 8.0 | 11.0 | 13.1 | 15.1 | 19.1 | 24.1 | 25.1 | 25.1 | 25.1 |
| 160° | 3.0 | 4.0 | 5.0 | 7.0 | 8.0 | 10.0 | 12.0 | 15.1 | 18.1 | 18.1 | 18.1 |
| 162.5° | 2.0 | 3.0 | 3.0 | 4.0 | 4.0 | 6.0 | 7.0 | 8.0 | 11.0 | 12.0 | 12.0 |
| 165° | 1.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 3.0 | 3.0 | 5.0 | 6.0 | 6.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 |
| 2.5° | 949.7 | 951.8 | 950.8 | 950.8 | 950.8 | 952.8 | 950.8 | 941.7 | 943.7 | 945.7 | 947.7 |
| 5° | 948.7 | 949.7 | 949.7 | 948.7 | 948.7 | 950.8 | 948.7 | 939.7 | 941.7 | 943.7 | 944.7 |
| 7.5° | 944.7 | 945.7 | 945.7 | 945.7 | 944.7 | 946.7 | 943.7 | 935.7 | 935.7 | 937.7 | 938.7 |
| 10° | 939.7 | 941.7 | 940.7 | 939.7 | 939.7 | 939.7 | 937.7 | 928.7 | 928.7 | 929.7 | 930.7 |
| 12.5° | 933.7 | 933.7 | 933.7 | 932.7 | 931.7 | 931.7 | 929.7 | 920.6 | 919.6 | 921.6 | 920.6 |
| 15° | 925.7 | 927.7 | 925.7 | 924.6 | 922.6 | 922.6 | 919.6 | 910.6 | 908.6 | 909.6 | 908.6 |
| 17.5° | 918.6 | 919.6 | 917.6 | 915.6 | 913.6 | 912.6 | 909.6 | 899.5 | 896.5 | 897.5 | 895.5 |
| 20° | 911.6 | 911.6 | 909.6 | 907.6 | 904.6 | 901.6 | 897.5 | 887.5 | 882.5 | 882.5 | 878.5 |
| 22.5° | 902.6 | 902.6 | 900.6 | 897.5 | 894.5 | 890.5 | 886.5 | 876.5 | 868.4 | 866.4 | 863.4 |
| 25° | 892.5 | 891.5 | 890.5 | 887.5 | 881.5 | 877.5 | 873.4 | 862.4 | 853.4 | 849.4 | 844.3 |
| 27.5° | 880.5 | 880.5 | 877.5 | 874.5 | 868.4 | 863.4 | 858.4 | 848.3 | 836.3 | 831.3 | 824.3 |
| 30° | 867.4 | 867.4 | 864.4 | 860.4 | 854.4 | 848.3 | 842.3 | 830.3 | 818.2 | 811.2 | 803.2 |
| 32.5° | 854.4 | 853.4 | 850.4 | 846.3 | 840.3 | 831.3 | 826.3 | 814.2 | 800.2 | 792.1 | 781.1 |
| 35° | 838.3 | 837.3 | 834.3 | 829.3 | 821.2 | 814.2 | 806.2 | 795.1 | 779.1 | 769.0 | 757.0 |
| 37.5° | 822.2 | 821.2 | 819.2 | 812.2 | 804.2 | 796.1 | 786.1 | 775.1 | 760.0 | 746.9 | 734.9 |
| 40° | 806.2 | 805.2 | 801.2 | 796.1 | 786.1 | 776.1 | 766.0 | 755.0 | 738.9 | 723.9 | 710.8 |
| 42.5° | 789.1 | 788.1 | 783.1 | 777.1 | 766.0 | 756.0 | 743.9 | 731.9 | 715.8 | 697.8 | 684.7 |
| 45° | 772.0 | 770.0 | 765.0 | 758.0 | 745.9 | 734.9 | 722.9 | 708.8 | 692.7 | 675.7 | 658.6 |
| 47.5° | 754.0 | 751.0 | 745.9 | 735.9 | 725.9 | 713.8 | 699.8 | 684.7 | 668.6 | 649.6 | 631.5 |
| 50° | 733.9 | 731.9 | 725.9 | 716.8 | 704.8 | 692.7 | 676.7 | 661.6 | 642.5 | 624.5 | 602.4 |
| 52.5° | 714.8 | 710.8 | 705.8 | 695.7 | 683.7 | 670.6 | 653.6 | 635.5 | 616.4 | 599.4 | 576.3 |
| 55° | 694.7 | 692.7 | 685.7 | 677.7 | 662.6 | 647.6 | 631.5 | 612.4 | 591.3 | 571.3 | 549.2 |
| 57.5° | 675.7 | 671.7 | 665.6 | 654.6 | 641.5 | 626.5 | 609.4 | 589.3 | 566.2 | 545.2 | 521.1 |
| 60° | 656.6 | 650.6 | 643.5 | 633.5 | 619.4 | 603.4 | 585.3 | 564.2 | 541.1 | 518.0 | 492.9 |
| 62.5° | 635.5 | 630.5 | 622.5 | 612.4 | 598.4 | 581.3 | 562.2 | 540.1 | 518.0 | 493.9 | 466.8 |
| 65° | 614.4 | 609.4 | 601.4 | 591.3 | 577.3 | 558.2 | 538.1 | 516.0 | 490.9 | 467.8 | 438.7 |
| 67.5° | 593.3 | 588.3 | 579.3 | 568.2 | 554.2 | 536.1 | 515.0 | 491.9 | 466.8 | 441.7 | 411.6 |
| 70° | 572.3 | 566.2 | 558.2 | 546.2 | 532.1 | 513.0 | 491.9 | 467.8 | 442.7 | 415.6 | 385.5 |
| 72.5° | 551.2 | 546.2 | 536.1 | 525.1 | 510.0 | 490.9 | 469.9 | 445.8 | 419.7 | 391.5 | 361.4 |
| 75° | 530.1 | 524.1 | 517.0 | 504.0 | 487.9 | 469.9 | 447.8 | 423.7 | 395.6 | 368.5 | 337.3 |
| 77.5° | 509.0 | 504.0 | 495.0 | 481.9 | 466.8 | 447.8 | 425.7 | 401.6 | 373.5 | 345.4 | 312.2 |
| 80° | 487.9 | 481.9 | 474.9 | 462.8 | 445.8 | 426.7 | 403.6 | 379.5 | 351.4 | 322.3 | 289.1 |
| 82.5° | 466.8 | 460.8 | 452.8 | 440.7 | 424.7 | 405.6 | 383.5 | 357.4 | 329.3 | 299.2 | 268.1 |
| 85° | 445.8 | 440.7 | 431.7 | 419.7 | 402.6 | 383.5 | 361.4 | 338.3 | 308.2 | 278.1 | 247.0 |
| 87.5° | 424.7 | 419.7 | 410.6 | 398.6 | 382.5 | 363.4 | 341.3 | 317.3 | 288.1 | 260.0 | 225.9 |
| 90° | 404.6 | 400.6 | 391.5 | 379.5 | 363.4 | 344.4 | 324.3 | 298.2 | 270.1 | 242.0 | 209.8 |
| 92.5° | 386.5 | 382.5 | 374.5 | 362.4 | 348.4 | 327.3 | 307.2 | 282.1 | 254.0 | 224.9 | 193.8 |
| 95° | 370.5 | 365.4 | 357.4 | 346.4 | 329.3 | 311.2 | 291.1 | 266.0 | 238.9 | 209.8 | 179.7 |
| 97.5° | 352.4 | 347.4 | 339.3 | 327.3 | 313.2 | 294.2 | 274.1 | 250.0 | 222.9 | 195.8 | 165.7 |
| 100° | 334.3 | 329.3 | 320.3 | 310.2 | 296.2 | 277.1 | 258.0 | 233.9 | 208.8 | 182.7 | 153.6 |
| 102.5° | 316.2 | 311.2 | 303.2 | 293.2 | 279.1 | 262.0 | 243.0 | 219.9 | 194.8 | 168.7 | 141.6 |
| 105° | 299.2 | 294.2 | 286.1 | 276.1 | 263.0 | 246.0 | 225.9 | 205.8 | 181.7 | 156.6 | 130.5 |
| 107.5° | 282.1 | 277.1 | 270.1 | 260.0 | 247.0 | 230.9 | 211.8 | 190.8 | 168.7 | 144.6 | 119.5 |
| 110° | 265.0 | 261.0 | 253.0 | 244.0 | 230.9 | 214.8 | 197.8 | 177.7 | 155.6 | 133.5 | 109.4 |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 112.5° | 249.0 | 245.0 | 236.9 | 226.9 | 215.9 | 200.8 | 183.7 | 164.6 | 143.6 | 122.5 | 99.4 |
| 115° | 232.9 | 227.9 | 220.9 | 211.8 | 200.8 | 186.7 | 170.7 | 153.6 | 132.5 | 112.4 | 91.4 |
| 117.5° | 216.9 | 212.8 | 205.8 | 196.8 | 186.7 | 172.7 | 157.6 | 141.6 | 121.5 | 102.4 | 83.3 |
| 120° | 200.8 | 197.8 | 190.8 | 182.7 | 172.7 | 159.6 | 145.6 | 129.5 | 111.4 | 93.4 | 75.3 |
| 122.5° | 185.7 | 182.7 | 175.7 | 168.7 | 158.6 | 146.6 | 133.5 | 118.5 | 102.4 | 85.3 | 69.3 |
| 125° | 171.7 | 167.7 | 161.6 | 154.6 | 145.6 | 134.5 | 121.5 | 107.4 | 92.4 | 77.3 | 62.2 |
| 127.5° | 156.6 | 153.6 | 149.6 | 141.6 | 132.5 | 122.5 | 110.4 | 98.4 | 84.3 | 70.3 | 56.2 |
| 130° | 144.6 | 140.6 | 135.5 | 129.5 | 121.5 | 111.4 | 100.4 | 88.3 | 76.3 | 63.2 | 49.2 |
| 132.5° | 130.5 | 126.5 | 122.5 | 116.5 | 109.4 | 100.4 | 90.4 | 79.3 | 68.3 | 56.2 | 44.2 |
| 135° | 117.5 | 114.5 | 110.4 | 104.4 | 97.4 | 90.4 | 80.3 | 70.3 | 60.2 | 49.2 | 39.2 |
| 137.5° | 105.4 | 102.4 | 98.4 | 94.4 | 87.3 | 80.3 | 71.3 | 62.2 | 53.2 | 43.2 | 34.1 |
| 140° | 93.4 | 91.4 | 87.3 | 83.3 | 77.3 | 70.3 | 62.2 | 54.2 | 46.2 | 37.1 | 29.1 |
| 142.5° | 81.3 | 79.3 | 76.3 | 72.3 | 67.3 | 61.2 | 54.2 | 47.2 | 39.2 | 32.1 | 25.1 |
| 145° | 70.3 | 69.3 | 66.3 | 62.2 | 58.2 | 52.2 | 46.2 | 40.2 | 33.1 | 27.1 | 20.1 |
| 147.5° | 59.2 | 58.2 | 56.2 | 53.2 | 49.2 | 44.2 | 39.2 | 33.1 | 28.1 | 22.1 | 16.1 |
| 150° | 49.2 | 48.2 | 47.2 | 43.2 | 41.2 | 36.1 | 32.1 | 27.1 | 23.1 | 17.1 | 13.1 |
| 152.5° | 40.2 | 40.2 | 38.2 | 35.1 | 33.1 | 29.1 | 26.1 | 22.1 | 18.1 | 14.1 | 10.0 |
| 155° | 32.1 | 31.1 | 30.1 | 28.1 | 26.1 | 23.1 | 20.1 | 17.1 | 14.1 | 10.0 | 7.0 |
| 157.5° | 25.1 | 24.1 | 23.1 | 21.1 | 19.1 | 18.1 | 15.1 | 12.0 | 9.0 | 7.0 | 5.0 |
| 160° | 18.1 | 17.1 | 16.1 | 15.1 | 14.1 | 12.0 | 10.0 | 8.0 | 6.0 | 4.0 | 3.0 |
| 162.5° | 12.0 | 11.0 | 11.0 | 10.0 | 9.0 | 7.0 | 6.0 | 5.0 | 4.0 | 3.0 | 2.0 |
| 165° | 6.0 | 6.0 | 5.0 | 5.0 | 4.0 | 3.0 | 3.0 | 3.0 | 2.0 | 2.0 | 1.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 | 951.8 |
| 2.5° | 946.7 | 946.7 | 950.8 | 949.7 | 946.7 | 952.8 | 959.8 |
| 5° | 943.7 | 943.7 | 946.7 | 946.7 | 943.7 | 949.7 | 955.8 |
| 7.5° | 938.7 | 937.7 | 940.7 | 940.7 | 936.7 | 941.7 | 948.7 |
| 10° | 929.7 | 928.7 | 931.7 | 931.7 | 927.7 | 932.7 | 938.7 |
| 12.5° | 919.6 | 917.6 | 920.6 | 919.6 | 915.6 | 920.6 | 926.7 |
| 15° | 906.6 | 905.6 | 907.6 | 905.6 | 901.6 | 906.6 | 912.6 |
| 17.5° | 893.5 | 890.5 | 891.5 | 891.5 | 884.5 | 889.5 | 894.5 |
| 20° | 876.5 | 872.4 | 873.4 | 872.4 | 867.4 | 870.4 | 876.5 |
| 22.5° | 859.4 | 853.4 | 853.4 | 852.4 | 846.3 | 850.4 | 855.4 |
| 25° | 838.3 | 831.3 | 831.3 | 830.3 | 823.2 | 826.3 | 831.3 |
| 27.5° | 817.2 | 810.2 | 807.2 | 806.2 | 799.2 | 799.2 | 806.2 |
| 30° | 795.1 | 785.1 | 783.1 | 780.1 | 773.1 | 773.1 | 779.1 |
| 32.5° | 774.1 | 760.0 | 756.0 | 752.0 | 744.9 | 743.9 | 751.0 |
| 35° | 745.9 | 734.9 | 727.9 | 723.9 | 715.8 | 713.8 | 719.8 |
| 37.5° | 722.9 | 708.8 | 698.8 | 693.7 | 685.7 | 682.7 | 690.7 |
| 40° | 697.8 | 682.7 | 669.6 | 666.6 | 654.6 | 650.6 | 657.6 |
| 42.5° | 669.6 | 653.6 | 640.5 | 634.5 | 625.5 | 621.5 | 622.5 |
| 45° | 641.5 | 624.5 | 610.4 | 602.4 | 593.3 | 586.3 | 590.3 |
| 47.5° | 612.4 | 597.4 | 580.3 | 568.2 | 557.2 | 552.2 | 554.2 |
| 50° | 583.3 | 565.2 | 549.2 | 536.1 | 523.1 | 517.0 | 521.1 |
| 52.5° | 554.2 | 535.1 | 517.0 | 503.0 | 487.9 | 481.9 | 482.9 |
| 55° | 526.1 | 506.0 | 484.9 | 469.9 | 455.8 | 446.8 | 444.8 |
| 57.5° | 498.0 | 475.9 | 453.8 | 436.7 | 418.7 | 410.6 | 407.6 |
| 60° | 467.8 | 444.8 | 421.7 | 401.6 | 382.5 | 373.5 | 369.5 |
| 62.5° | 439.7 | 414.6 | 388.5 | 367.4 | 348.4 | 336.3 | 333.3 |
| 65° | 412.6 | 383.5 | 357.4 | 333.3 | 312.2 | 299.2 | 295.2 |
| 67.5° | 383.5 | 353.4 | 325.3 | 299.2 | 279.1 | 262.0 | 260.0 |
| 70° | 356.4 | 324.3 | 293.2 | 266.0 | 244.0 | 226.9 | 218.9 |
| 72.5° | 329.3 | 296.2 | 264.0 | 234.9 | 206.8 | 190.8 | 184.7 |
| 75° | 303.2 | 269.1 | 234.9 | 204.8 | 173.7 | 154.6 | 148.6 |
| 77.5° | 279.1 | 244.0 | 207.8 | 174.7 | 145.6 | 121.5 | 113.4 |
| 80° | 256.0 | 219.9 | 181.7 | 147.6 | 116.5 | 90.4 | 81.3 |
| 82.5° | 231.9 | 197.8 | 158.6 | 122.5 | 90.4 | 63.2 | 52.2 |
| 85° | 210.8 | 176.7 | 137.5 | 101.4 | 69.3 | 40.2 | 28.1 |
| 87.5° | 193.8 | 156.6 | 121.5 | 85.3 | 52.2 | 23.1 | 8.0 |
| 90° | 176.7 | 140.6 | 105.4 | 70.3 | 39.2 | 13.1 | 1.0 |
| 92.5° | 161.6 | 127.5 | 92.4 | 60.2 | 30.1 | 9.0 | 1.0 |
| 95° | 147.6 | 114.5 | 81.3 | 50.2 | 24.1 | 6.0 | 1.0 |
| 97.5° | 134.5 | 103.4 | 72.3 | 43.2 | 20.1 | 5.0 | 1.0 |
| 100° | 123.5 | 93.4 | 64.3 | 38.2 | 17.1 | 4.0 | 1.0 |
| 102.5° | 112.4 | 84.3 | 57.2 | 33.1 | 15.1 | 3.0 | 1.0 |
| 105° | 103.4 | 76.3 | 51.2 | 30.1 | 13.1 | 3.0 | 1.0 |
| 107.5° | 94.4 | 69.3 | 46.2 | 26.1 | 11.0 | 2.0 | 1.0 |
| 110° | 85.3 | 63.2 | 41.2 | 23.1 | 10.0 | 2.0 | 1.0 |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-44SL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|------|------|------|------|------|------|------|
| 112.5° | 78.3 | 57.2 | 37.1 | 21.1 | 8.0 | 2.0 | 1.0 |
| 115° | 71.3 | 51.2 | 33.1 | 18.1 | 7.0 | 1.0 | 1.0 |
| 117.5° | 64.3 | 46.2 | 29.1 | 16.1 | 6.0 | 1.0 | 1.0 |
| 120° | 58.2 | 41.2 | 26.1 | 14.1 | 5.0 | 1.0 | 1.0 |
| 122.5° | 52.2 | 37.1 | 23.1 | 12.0 | 4.0 | 1.0 | 1.0 |
| 125° | 47.2 | 33.1 | 20.1 | 10.0 | 3.0 | 1.0 | 1.0 |
| 127.5° | 42.2 | 29.1 | 18.1 | 9.0 | 3.0 | 1.0 | 1.0 |
| 130° | 37.1 | 26.1 | 15.1 | 7.0 | 2.0 | 1.0 | 1.0 |
| 132.5° | 33.1 | 22.1 | 13.1 | 6.0 | 2.0 | 1.0 | 1.0 |
| 135° | 29.1 | 19.1 | 11.0 | 4.0 | 2.0 | 1.0 | 1.0 |
| 137.5° | 25.1 | 16.1 | 9.0 | 3.0 | 1.0 | 1.0 | 1.0 |
| 140° | 21.1 | 14.1 | 7.0 | 3.0 | 1.0 | 1.0 | 1.0 |
| 142.5° | 18.1 | 11.0 | 5.0 | 2.0 | 1.0 | 1.0 | 1.0 |
| 145° | 14.1 | 9.0 | 4.0 | 2.0 | 1.0 | 1.0 | 1.0 |
| 147.5° | 11.0 | 7.0 | 3.0 | 2.0 | 1.0 | 1.0 | 1.0 |
| 150° | 8.0 | 5.0 | 3.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 152.5° | 6.0 | 4.0 | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 155° | 4.0 | 3.0 | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 157.5° | 3.0 | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 160° | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 162.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 165° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)