

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: **2SNLED-LD5-39HL-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: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3589.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

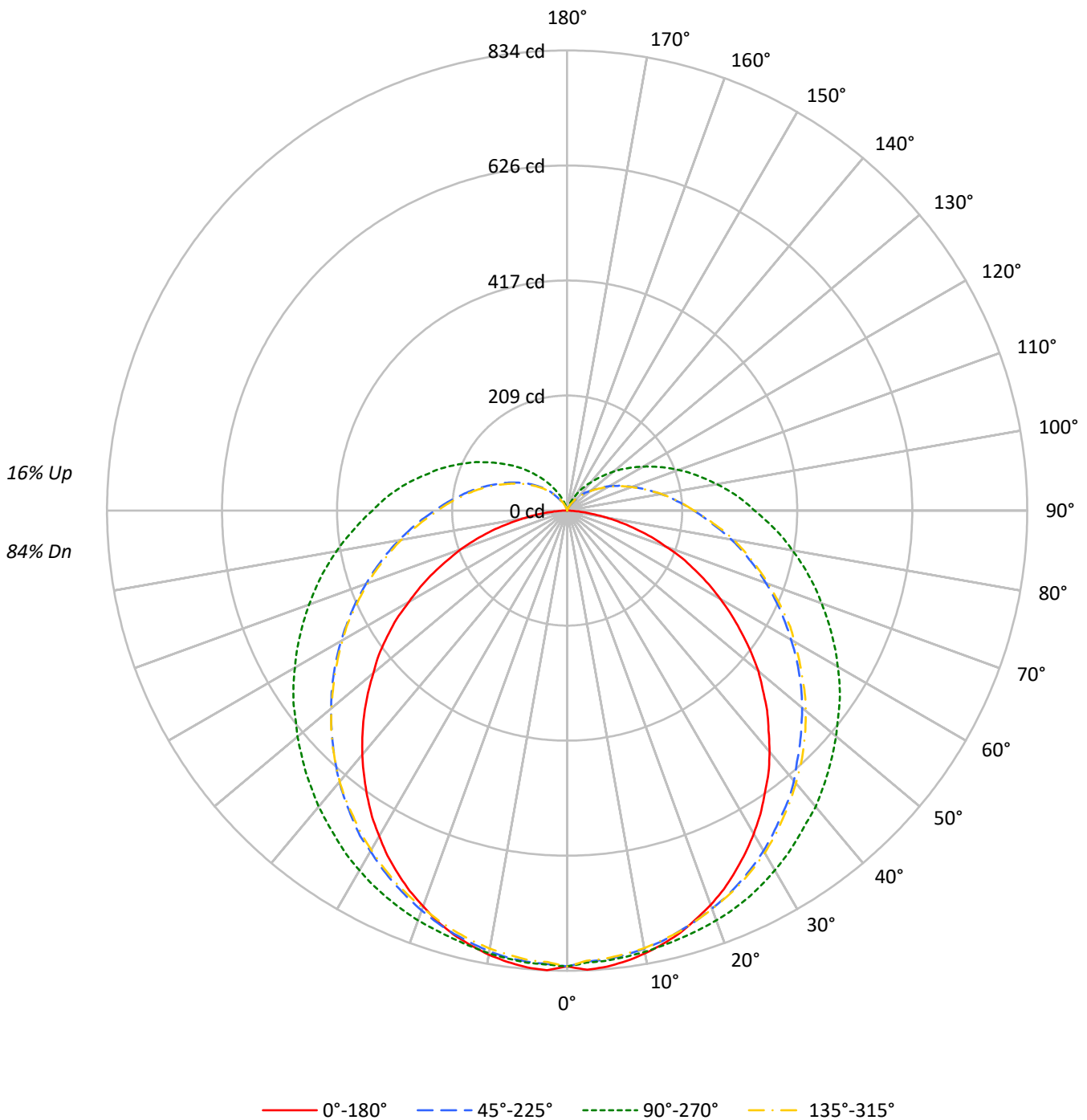
Input Watts (W): 36
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-39HL-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 | 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° | 13351 | 13351 | 13351 | 13351 |
| 5° | 13386 | 12866 | 13413 | 12921 |
| 10° | 13226 | 12500 | 13268 | 12542 |
| 15° | 13035 | 12188 | 13093 | 12202 |
| 20° | 12792 | 11960 | 12836 | 11960 |
| 25° | 12502 | 11757 | 12578 | 11743 |
| 30° | 12180 | 11548 | 12274 | 11548 |
| 35° | 11811 | 11354 | 11943 | 11368 |
| 40° | 11443 | 11241 | 11581 | 11241 |
| 45° | 11023 | 11121 | 11191 | 11136 |
| 50° | 10584 | 11050 | 10727 | 11082 |
| 55° | 9985 | 11061 | 10301 | 11109 |
| 60° | 9354 | 11095 | 9657 | 11163 |
| 65° | 8640 | 11206 | 9021 | 11318 |
| 70° | 7663 | 11413 | 8259 | 11576 |
| 75° | 6532 | 11785 | 7150 | 12011 |
| 80° | 4851 | 12339 | 5511 | 12625 |
| 85° | 2639 | 13225 | 3299 | 13593 |



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 78.3 | 2.2 |
| 10°-20° | 224.9 | 6.3 |
| 20°-30° | 344.8 | 9.6 |
| 30°-40° | 425.4 | 11.9 |
| 40°-50° | 461.5 | 12.9 |
| 50°-60° | 454.9 | 12.7 |
| 60°-70° | 411.3 | 11.5 |
| 70°-80° | 342.6 | 9.5 |
| 80°-90° | 265.4 | 7.4 |
| 90°-100° | 201.3 | 5.6 |
| 100°-110° | 148.9 | 4.1 |
| 110°-120° | 103.6 | 2.9 |
| 120°-130° | 66.1 | 1.8 |
| 130°-140° | 37.1 | 1.0 |
| 140°-150° | 16.9 | 0.5 |
| 150°-160° | 5.3 | 0.1 |
| 160°-170° | 0.7 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 648.0 | 18.1 |
| 0°-40° | 1073.4 | 29.9 |
| 0°-60° | 1989.8 | 55.4 |
| 0°-90° | 3009.1 | 83.8 |
| 90°-120° | 453.8 | 12.6 |
| 90°-150° | 574.0 | 16.0 |
| 90°-180° | 580.0 | 16.2 |
| 0°-180° | 3589.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|-----|-----|------|------|------|------|
| 0° | 826 | 826 | 826 | 826 | 826 | |
| 5° | 830 | 819 | 831 | 823 | 830 | 79 |
| 15° | 792 | 802 | 796 | 803 | 792 | 223 |
| 25° | 722 | 775 | 726 | 774 | 722 | 332 |
| 35° | 625 | 727 | 632 | 728 | 625 | 391 |
| 45° | 512 | 669 | 520 | 670 | 512 | 395 |
| 55° | 386 | 603 | 398 | 606 | 386 | 345 |
| 65° | 256 | 529 | 268 | 534 | 256 | 254 |
| 75° | 129 | 453 | 141 | 462 | 129 | 137 |
| 85° | 24 | 377 | 30 | 388 | 24 | 29 |
| 90° | 1 | 340 | 2 | 353 | 1 | 1 |
| 95° | 1 | 308 | 1 | 323 | 1 | 1 |
| 105° | 1 | 245 | 1 | 260 | 1 | 1 |
| 115° | 1 | 186 | 1 | 203 | 1 | 1 |
| 125° | 1 | 134 | 1 | 149 | 1 | 1 |
| 135° | 1 | 87 | 1 | 103 | 1 | 1 |
| 145° | 1 | 50 | 1 | 62 | 1 | 1 |
| 155° | 1 | 21 | 1 | 29 | 1 | 0 |
| 165° | 1 | 4 | 1 | 5 | 1 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 |
| 2.5° | 833.1 | 833.1 | 832.2 | 830.4 | 831.3 | 833.9 | 832.2 | 827.8 | 825.2 | 818.2 | 820.0 |
| 5° | 829.6 | 829.6 | 828.7 | 827.0 | 827.8 | 831.3 | 829.6 | 826.1 | 822.6 | 816.5 | 819.1 |
| 7.5° | 823.5 | 823.5 | 822.6 | 820.9 | 822.6 | 826.1 | 824.3 | 820.9 | 818.2 | 812.1 | 814.8 |
| 10° | 814.8 | 815.6 | 814.8 | 812.1 | 815.6 | 819.1 | 818.2 | 813.9 | 811.3 | 806.0 | 808.7 |
| 12.5° | 804.3 | 805.2 | 804.3 | 803.4 | 805.2 | 810.4 | 808.7 | 805.2 | 803.4 | 799.1 | 801.7 |
| 15° | 792.1 | 793.0 | 791.2 | 791.2 | 793.0 | 798.2 | 798.2 | 794.7 | 793.0 | 788.6 | 793.8 |
| 17.5° | 776.4 | 777.3 | 776.4 | 776.4 | 778.2 | 783.4 | 784.3 | 782.5 | 780.8 | 779.0 | 784.3 |
| 20° | 760.7 | 759.9 | 759.9 | 759.0 | 762.5 | 770.3 | 769.4 | 769.4 | 767.7 | 767.7 | 773.8 |
| 22.5° | 742.4 | 742.4 | 741.6 | 741.6 | 745.9 | 752.9 | 752.9 | 754.6 | 752.9 | 756.4 | 761.6 |
| 25° | 721.5 | 722.4 | 721.5 | 723.3 | 726.7 | 734.6 | 735.5 | 738.1 | 738.9 | 742.4 | 748.5 |
| 27.5° | 699.7 | 700.6 | 699.7 | 701.5 | 707.6 | 713.7 | 718.0 | 721.5 | 722.4 | 727.6 | 735.5 |
| 30° | 676.2 | 676.2 | 677.1 | 678.8 | 685.8 | 695.4 | 698.9 | 703.2 | 703.2 | 711.9 | 719.8 |
| 32.5° | 651.8 | 651.8 | 651.8 | 655.3 | 663.1 | 674.5 | 678.8 | 684.0 | 685.8 | 694.5 | 703.2 |
| 35° | 624.8 | 625.7 | 625.7 | 628.3 | 638.7 | 650.1 | 656.2 | 662.3 | 665.7 | 676.2 | 684.9 |
| 37.5° | 599.5 | 601.3 | 598.6 | 602.1 | 616.9 | 626.5 | 633.5 | 639.6 | 645.7 | 659.6 | 666.6 |
| 40° | 570.8 | 572.5 | 571.6 | 578.6 | 590.8 | 603.0 | 610.8 | 616.9 | 625.7 | 639.6 | 647.4 |
| 42.5° | 540.3 | 542.0 | 543.8 | 551.6 | 564.7 | 576.9 | 586.4 | 594.3 | 604.7 | 616.9 | 630.0 |
| 45° | 512.4 | 512.4 | 515.0 | 524.6 | 538.5 | 551.6 | 562.9 | 571.6 | 583.8 | 596.9 | 610.0 |
| 47.5° | 481.0 | 481.9 | 485.4 | 496.7 | 511.5 | 527.2 | 537.7 | 549.0 | 562.0 | 576.0 | 590.8 |
| 50° | 452.3 | 452.3 | 457.5 | 469.7 | 483.6 | 501.1 | 512.4 | 525.5 | 539.4 | 556.0 | 570.8 |
| 52.5° | 419.1 | 420.9 | 428.7 | 440.1 | 458.4 | 474.0 | 487.1 | 501.1 | 517.6 | 535.0 | 551.6 |
| 55° | 386.0 | 389.5 | 395.6 | 411.3 | 430.5 | 445.3 | 461.0 | 478.4 | 494.1 | 513.3 | 532.4 |
| 57.5° | 353.8 | 356.4 | 366.0 | 381.7 | 401.7 | 420.0 | 436.6 | 453.1 | 472.3 | 491.5 | 511.5 |
| 60° | 320.7 | 324.2 | 335.5 | 351.2 | 373.0 | 392.1 | 411.3 | 428.7 | 448.8 | 468.8 | 489.7 |
| 62.5° | 289.3 | 291.9 | 305.0 | 323.3 | 345.1 | 366.0 | 385.2 | 406.1 | 427.9 | 447.0 | 467.9 |
| 65° | 256.2 | 260.5 | 275.4 | 291.9 | 317.2 | 338.1 | 359.9 | 382.5 | 405.2 | 426.1 | 446.2 |
| 67.5° | 225.7 | 228.3 | 244.0 | 263.2 | 288.4 | 312.0 | 334.6 | 359.0 | 382.5 | 404.3 | 424.4 |
| 70° | 190.0 | 198.7 | 214.4 | 234.4 | 261.4 | 285.8 | 310.2 | 335.5 | 360.8 | 383.4 | 402.6 |
| 72.5° | 160.3 | 167.3 | 184.7 | 206.5 | 232.7 | 261.4 | 286.7 | 313.7 | 339.0 | 362.5 | 382.5 |
| 75° | 129.0 | 135.9 | 156.0 | 180.4 | 207.4 | 237.9 | 264.0 | 291.9 | 318.1 | 341.6 | 362.5 |
| 77.5° | 98.5 | 107.2 | 129.0 | 154.2 | 183.9 | 215.2 | 242.2 | 270.1 | 297.1 | 322.4 | 343.3 |
| 80° | 70.6 | 80.2 | 103.7 | 132.5 | 161.2 | 192.6 | 222.2 | 250.1 | 277.1 | 302.4 | 324.2 |
| 82.5° | 45.3 | 55.8 | 81.0 | 109.8 | 140.3 | 171.7 | 202.2 | 230.0 | 257.1 | 282.3 | 305.0 |
| 85° | 24.4 | 35.7 | 61.9 | 90.6 | 121.1 | 152.5 | 183.0 | 212.6 | 238.8 | 262.3 | 286.7 |
| 87.5° | 7.0 | 20.9 | 46.2 | 74.9 | 106.3 | 135.1 | 164.7 | 194.3 | 220.5 | 245.7 | 267.5 |
| 90° | 0.9 | 12.2 | 34.9 | 61.9 | 92.4 | 120.3 | 149.9 | 177.8 | 203.9 | 229.2 | 251.0 |
| 92.5° | 0.9 | 7.8 | 27.0 | 51.4 | 79.3 | 108.1 | 137.7 | 164.7 | 189.1 | 214.4 | 236.1 |
| 95° | 0.9 | 6.1 | 21.8 | 43.6 | 69.7 | 96.7 | 124.6 | 150.8 | 176.0 | 199.5 | 221.3 |
| 97.5° | 0.9 | 4.4 | 17.4 | 37.5 | 61.0 | 86.3 | 113.3 | 139.4 | 163.8 | 186.5 | 206.5 |
| 100° | 0.9 | 3.5 | 13.9 | 32.2 | 53.2 | 77.6 | 102.0 | 127.2 | 150.8 | 172.5 | 193.4 |
| 102.5° | 0.9 | 2.6 | 12.2 | 27.0 | 47.1 | 68.8 | 92.4 | 115.9 | 138.6 | 159.5 | 180.4 |
| 105° | 0.9 | 2.6 | 10.5 | 23.5 | 41.8 | 61.9 | 83.7 | 106.3 | 127.2 | 147.3 | 166.4 |
| 107.5° | 0.9 | 1.7 | 8.7 | 20.0 | 36.6 | 55.8 | 75.8 | 97.6 | 116.8 | 135.9 | 154.2 |
| 110° | 0.9 | 1.7 | 7.0 | 18.3 | 32.2 | 49.7 | 68.8 | 88.9 | 107.2 | 125.5 | 142.9 |



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-----|-----|-----|------|------|------|------|------|------|-------|-------|
| 112.5° | 0.9 | 1.7 | 6.1 | 15.7 | 27.9 | 44.4 | 61.9 | 80.2 | 97.6 | 115.9 | 131.6 |
| 115° | 0.9 | 1.7 | 5.2 | 13.9 | 26.1 | 38.3 | 55.8 | 72.3 | 89.8 | 106.3 | 121.1 |
| 117.5° | 0.9 | 1.7 | 4.4 | 11.3 | 22.7 | 34.9 | 48.8 | 65.4 | 81.0 | 96.7 | 110.7 |
| 120° | 0.9 | 1.7 | 3.5 | 10.5 | 20.0 | 31.4 | 43.6 | 58.4 | 73.2 | 88.0 | 102.8 |
| 122.5° | 0.9 | 0.9 | 3.5 | 8.7 | 17.4 | 27.9 | 40.1 | 51.4 | 65.4 | 79.3 | 92.4 |
| 125° | 0.9 | 0.9 | 3.5 | 7.8 | 14.8 | 25.3 | 35.7 | 46.2 | 58.4 | 70.6 | 81.9 |
| 127.5° | 0.9 | 0.9 | 2.6 | 6.1 | 13.1 | 21.8 | 31.4 | 42.7 | 51.4 | 62.7 | 74.1 |
| 130° | 0.9 | 0.9 | 2.6 | 5.2 | 11.3 | 18.3 | 27.9 | 37.5 | 47.9 | 55.8 | 65.4 |
| 132.5° | 0.9 | 0.9 | 2.6 | 4.4 | 8.7 | 14.8 | 23.5 | 32.2 | 41.8 | 50.5 | 58.4 |
| 135° | 0.9 | 0.9 | 1.7 | 3.5 | 7.0 | 12.2 | 19.2 | 27.0 | 36.6 | 45.3 | 53.2 |
| 137.5° | 0.9 | 0.9 | 1.7 | 3.5 | 5.2 | 10.5 | 14.8 | 21.8 | 30.5 | 38.3 | 46.2 |
| 140° | 0.9 | 0.9 | 1.7 | 2.6 | 4.4 | 7.8 | 12.2 | 17.4 | 24.4 | 31.4 | 40.1 |
| 142.5° | 0.9 | 0.9 | 0.9 | 2.6 | 3.5 | 6.1 | 9.6 | 13.9 | 19.2 | 25.3 | 32.2 |
| 145° | 0.9 | 0.9 | 0.9 | 2.6 | 3.5 | 4.4 | 7.8 | 11.3 | 14.8 | 19.2 | 25.3 |
| 147.5° | 0.9 | 0.9 | 0.9 | 1.7 | 2.6 | 3.5 | 6.1 | 8.7 | 11.3 | 14.8 | 18.3 |
| 150° | 0.9 | 0.9 | 0.9 | 1.7 | 2.6 | 3.5 | 4.4 | 6.1 | 8.7 | 12.2 | 14.8 |
| 152.5° | 0.9 | 0.9 | 0.9 | 1.7 | 1.7 | 2.6 | 3.5 | 4.4 | 6.1 | 8.7 | 10.5 |
| 155° | 0.9 | 0.9 | 0.9 | 0.9 | 1.7 | 2.6 | 3.5 | 3.5 | 4.4 | 6.1 | 7.8 |
| 157.5° | 0.9 | 0.9 | 0.9 | 0.9 | 1.7 | 1.7 | 2.6 | 2.6 | 3.5 | 3.5 | 5.2 |
| 160° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.7 | 1.7 | 2.6 | 2.6 | 2.6 | 2.6 |
| 162.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.7 | 1.7 | 1.7 | 2.6 | 2.6 |
| 165° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.7 | 1.7 | 1.7 |
| 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: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 |
| 2.5° | 820.0 | 820.9 | 823.5 | 823.5 | 821.7 | 821.7 | 820.9 | 820.0 | 820.9 | 822.6 | 822.6 |
| 5° | 818.2 | 819.1 | 821.7 | 822.6 | 820.9 | 820.0 | 820.0 | 819.1 | 820.0 | 821.7 | 821.7 |
| 7.5° | 814.8 | 815.6 | 818.2 | 819.1 | 817.4 | 817.4 | 816.5 | 815.6 | 817.4 | 818.2 | 818.2 |
| 10° | 809.5 | 810.4 | 813.9 | 814.8 | 813.9 | 813.0 | 813.0 | 812.1 | 813.0 | 814.8 | 814.8 |
| 12.5° | 802.6 | 804.3 | 808.7 | 808.7 | 808.7 | 807.8 | 807.8 | 806.9 | 807.8 | 809.5 | 808.7 |
| 15° | 794.7 | 798.2 | 801.7 | 803.4 | 803.4 | 803.4 | 802.6 | 801.7 | 803.4 | 804.3 | 803.4 |
| 17.5° | 786.0 | 790.4 | 795.6 | 797.3 | 797.3 | 798.2 | 797.3 | 796.5 | 798.2 | 798.2 | 797.3 |
| 20° | 777.3 | 781.6 | 786.9 | 788.6 | 790.4 | 791.2 | 791.2 | 790.4 | 791.2 | 792.1 | 791.2 |
| 22.5° | 766.0 | 771.2 | 777.3 | 779.9 | 781.6 | 783.4 | 783.4 | 783.4 | 784.3 | 785.1 | 783.4 |
| 25° | 753.8 | 759.9 | 766.8 | 769.4 | 772.9 | 773.8 | 774.7 | 774.7 | 775.5 | 776.4 | 773.8 |
| 27.5° | 740.7 | 747.7 | 754.6 | 759.0 | 761.6 | 763.3 | 763.3 | 764.2 | 765.1 | 766.0 | 763.3 |
| 30° | 725.0 | 735.5 | 741.6 | 745.0 | 748.5 | 751.1 | 752.0 | 752.9 | 753.8 | 754.6 | 752.0 |
| 32.5° | 711.1 | 719.8 | 727.6 | 732.0 | 736.3 | 739.8 | 740.7 | 740.7 | 742.4 | 742.4 | 739.8 |
| 35° | 694.5 | 705.0 | 712.8 | 717.2 | 722.4 | 725.0 | 726.7 | 726.7 | 728.5 | 728.5 | 725.9 |
| 37.5° | 677.9 | 688.4 | 697.1 | 702.3 | 708.4 | 711.9 | 712.8 | 712.8 | 714.5 | 714.5 | 711.1 |
| 40° | 660.5 | 671.8 | 681.4 | 687.5 | 692.8 | 697.1 | 698.0 | 700.6 | 700.6 | 699.7 | 696.2 |
| 42.5° | 643.1 | 653.5 | 664.0 | 671.0 | 677.9 | 682.3 | 684.0 | 684.9 | 684.9 | 684.0 | 681.4 |
| 45° | 623.9 | 636.1 | 645.7 | 654.4 | 661.4 | 665.7 | 668.4 | 669.2 | 669.2 | 667.5 | 664.9 |
| 47.5° | 605.6 | 617.8 | 627.4 | 637.0 | 644.0 | 649.2 | 651.8 | 652.7 | 651.8 | 650.9 | 648.3 |
| 50° | 586.4 | 600.4 | 610.0 | 619.6 | 626.5 | 630.9 | 635.2 | 636.1 | 635.2 | 634.4 | 629.1 |
| 52.5° | 566.4 | 581.2 | 591.7 | 601.3 | 609.1 | 614.3 | 617.8 | 618.7 | 618.7 | 616.9 | 613.5 |
| 55° | 546.4 | 559.4 | 572.5 | 583.0 | 591.7 | 596.9 | 601.3 | 603.0 | 601.3 | 599.5 | 595.2 |
| 57.5° | 528.1 | 540.3 | 553.3 | 564.7 | 573.4 | 580.3 | 583.8 | 585.6 | 583.8 | 581.2 | 576.9 |
| 60° | 506.3 | 519.4 | 534.2 | 544.6 | 554.2 | 561.2 | 562.9 | 566.4 | 564.7 | 562.0 | 557.7 |
| 62.5° | 485.4 | 501.1 | 514.1 | 527.2 | 535.0 | 542.9 | 546.4 | 548.1 | 546.4 | 543.8 | 539.4 |
| 65° | 463.6 | 481.0 | 494.1 | 507.2 | 515.9 | 523.7 | 528.1 | 528.9 | 527.2 | 524.6 | 520.2 |
| 67.5° | 443.5 | 460.1 | 474.0 | 488.0 | 495.8 | 503.7 | 508.0 | 509.8 | 508.0 | 504.5 | 500.2 |
| 70° | 423.5 | 440.1 | 456.6 | 467.1 | 476.7 | 485.4 | 488.0 | 490.6 | 488.9 | 485.4 | 480.1 |
| 72.5° | 403.5 | 420.9 | 437.4 | 447.9 | 458.4 | 466.2 | 469.7 | 472.3 | 470.6 | 467.1 | 461.0 |
| 75° | 382.5 | 400.8 | 417.4 | 428.7 | 439.2 | 447.0 | 450.5 | 453.1 | 451.4 | 447.9 | 440.9 |
| 77.5° | 363.4 | 381.7 | 397.4 | 409.6 | 420.0 | 427.0 | 433.1 | 434.0 | 432.2 | 428.7 | 421.8 |
| 80° | 343.3 | 361.6 | 378.2 | 390.4 | 400.8 | 407.8 | 412.2 | 414.8 | 413.0 | 409.6 | 402.6 |
| 82.5° | 325.9 | 342.5 | 359.0 | 371.2 | 381.7 | 390.4 | 393.9 | 396.5 | 395.6 | 390.4 | 385.2 |
| 85° | 306.7 | 325.9 | 339.0 | 352.0 | 362.5 | 371.2 | 373.8 | 377.3 | 376.4 | 372.1 | 365.1 |
| 87.5° | 287.6 | 306.7 | 322.4 | 335.5 | 345.1 | 352.0 | 356.4 | 358.1 | 357.3 | 352.9 | 345.1 |
| 90° | 271.9 | 289.3 | 305.0 | 318.9 | 326.8 | 334.6 | 339.0 | 339.8 | 339.8 | 334.6 | 328.5 |
| 92.5° | 257.1 | 273.6 | 289.3 | 302.4 | 312.0 | 318.9 | 322.4 | 324.2 | 323.3 | 318.9 | 312.0 |
| 95° | 240.5 | 258.8 | 273.6 | 286.7 | 296.3 | 303.2 | 306.7 | 308.5 | 307.6 | 303.2 | 296.3 |
| 97.5° | 226.6 | 243.1 | 257.9 | 270.1 | 279.7 | 286.7 | 290.2 | 291.9 | 291.9 | 287.6 | 280.6 |
| 100° | 212.6 | 229.2 | 243.1 | 255.3 | 264.0 | 271.0 | 274.5 | 275.4 | 274.5 | 271.0 | 264.0 |
| 102.5° | 198.7 | 214.4 | 228.3 | 239.6 | 249.2 | 255.3 | 258.8 | 259.7 | 259.7 | 255.3 | 248.3 |
| 105° | 184.7 | 200.4 | 213.5 | 225.7 | 233.5 | 239.6 | 242.2 | 244.9 | 244.0 | 240.5 | 233.5 |
| 107.5° | 171.7 | 187.3 | 199.5 | 210.9 | 218.7 | 224.8 | 227.4 | 230.0 | 229.2 | 225.7 | 218.7 |
| 110° | 159.5 | 174.3 | 185.6 | 196.9 | 203.9 | 210.0 | 214.4 | 215.2 | 213.5 | 210.0 | 203.9 |



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 148.1 | 161.2 | 172.5 | 183.0 | 190.8 | 195.2 | 198.7 | 200.4 | 198.7 | 195.2 | 190.8 |
| 115° | 135.9 | 149.0 | 160.3 | 169.9 | 176.9 | 182.1 | 184.7 | 186.5 | 184.7 | 181.3 | 176.9 |
| 117.5° | 124.6 | 136.8 | 148.1 | 157.7 | 163.8 | 168.2 | 170.8 | 172.5 | 170.8 | 168.2 | 163.8 |
| 120° | 115.0 | 125.5 | 135.9 | 144.7 | 151.6 | 155.1 | 157.7 | 159.5 | 158.6 | 155.1 | 150.8 |
| 122.5° | 103.7 | 115.0 | 124.6 | 133.3 | 139.4 | 142.9 | 144.7 | 146.4 | 145.5 | 142.9 | 138.6 |
| 125° | 94.1 | 103.7 | 113.3 | 121.1 | 127.2 | 130.7 | 132.5 | 134.2 | 133.3 | 130.7 | 125.5 |
| 127.5° | 83.7 | 94.1 | 102.0 | 109.8 | 114.2 | 119.4 | 120.3 | 122.0 | 121.1 | 118.5 | 114.2 |
| 130° | 75.8 | 83.7 | 91.5 | 98.5 | 103.7 | 107.2 | 108.9 | 109.8 | 108.1 | 106.3 | 102.0 |
| 132.5° | 66.2 | 74.9 | 81.9 | 88.0 | 91.5 | 95.0 | 96.7 | 97.6 | 97.6 | 95.0 | 91.5 |
| 135° | 59.3 | 65.4 | 71.5 | 77.6 | 81.0 | 84.5 | 86.3 | 87.1 | 86.3 | 84.5 | 81.0 |
| 137.5° | 53.2 | 58.4 | 62.7 | 68.0 | 72.3 | 74.1 | 75.8 | 75.8 | 74.9 | 74.1 | 71.5 |
| 140° | 46.2 | 52.3 | 56.6 | 60.1 | 63.6 | 64.5 | 66.2 | 66.2 | 65.4 | 64.5 | 62.7 |
| 142.5° | 39.2 | 44.4 | 48.8 | 53.2 | 55.8 | 57.5 | 58.4 | 59.3 | 58.4 | 57.5 | 54.9 |
| 145° | 31.4 | 37.5 | 41.8 | 44.4 | 47.9 | 48.8 | 49.7 | 50.5 | 49.7 | 48.8 | 46.2 |
| 147.5° | 24.4 | 29.6 | 34.0 | 37.5 | 40.1 | 41.0 | 41.8 | 42.7 | 41.8 | 40.1 | 39.2 |
| 150° | 17.4 | 21.8 | 27.0 | 30.5 | 32.2 | 34.0 | 34.0 | 34.0 | 34.9 | 33.1 | 31.4 |
| 152.5° | 13.9 | 15.7 | 19.2 | 22.7 | 25.3 | 26.1 | 27.0 | 27.0 | 26.1 | 26.1 | 24.4 |
| 155° | 9.6 | 11.3 | 13.9 | 16.6 | 19.2 | 20.0 | 20.9 | 20.9 | 20.0 | 20.0 | 19.2 |
| 157.5° | 6.1 | 7.8 | 9.6 | 11.3 | 13.9 | 14.8 | 15.7 | 15.7 | 15.7 | 14.8 | 13.9 |
| 160° | 3.5 | 4.4 | 5.2 | 7.0 | 8.7 | 9.6 | 10.5 | 10.5 | 10.5 | 10.5 | 9.6 |
| 162.5° | 2.6 | 2.6 | 2.6 | 3.5 | 4.4 | 5.2 | 6.1 | 6.1 | 6.1 | 6.1 | 5.2 |
| 165° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 2.6 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 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: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 |
| 2.5° | 821.7 | 821.7 | 822.6 | 820.9 | 815.6 | 816.5 | 816.5 | 820.0 | 821.7 | 822.6 | 827.0 |
| 5° | 820.0 | 820.0 | 821.7 | 819.1 | 814.8 | 814.8 | 814.8 | 818.2 | 819.1 | 820.9 | 824.3 |
| 7.5° | 817.4 | 817.4 | 818.2 | 815.6 | 810.4 | 810.4 | 809.5 | 813.0 | 814.8 | 815.6 | 819.1 |
| 10° | 813.0 | 813.0 | 813.9 | 811.3 | 805.2 | 805.2 | 804.3 | 806.9 | 807.8 | 809.5 | 812.1 |
| 12.5° | 806.9 | 806.9 | 806.9 | 804.3 | 798.2 | 797.3 | 796.5 | 799.1 | 799.1 | 799.9 | 802.6 |
| 15° | 801.7 | 799.9 | 799.9 | 797.3 | 791.2 | 789.5 | 787.7 | 788.6 | 790.4 | 789.5 | 791.2 |
| 17.5° | 795.6 | 793.8 | 792.1 | 789.5 | 781.6 | 779.0 | 777.3 | 778.2 | 777.3 | 776.4 | 778.2 |
| 20° | 788.6 | 786.0 | 785.1 | 780.8 | 772.9 | 768.6 | 765.1 | 763.3 | 764.2 | 761.6 | 762.5 |
| 22.5° | 780.8 | 777.3 | 775.5 | 770.3 | 762.5 | 757.2 | 752.9 | 749.4 | 748.5 | 745.0 | 745.9 |
| 25° | 771.2 | 766.8 | 764.2 | 759.9 | 751.1 | 745.0 | 739.8 | 734.6 | 732.0 | 727.6 | 726.7 |
| 27.5° | 759.9 | 755.5 | 752.0 | 747.7 | 738.9 | 731.1 | 725.0 | 718.0 | 714.5 | 709.3 | 706.7 |
| 30° | 748.5 | 743.3 | 738.1 | 734.6 | 725.0 | 716.3 | 706.7 | 700.6 | 695.4 | 689.3 | 684.9 |
| 32.5° | 734.6 | 729.4 | 724.1 | 718.9 | 710.2 | 699.7 | 691.9 | 682.3 | 676.2 | 669.2 | 664.0 |
| 35° | 720.6 | 713.7 | 708.4 | 701.5 | 693.6 | 681.4 | 671.8 | 662.3 | 654.4 | 646.6 | 640.5 |
| 37.5° | 705.0 | 699.7 | 691.9 | 685.8 | 676.2 | 664.0 | 653.5 | 641.3 | 634.4 | 623.9 | 616.1 |
| 40° | 690.1 | 684.0 | 676.2 | 668.4 | 658.8 | 644.8 | 633.5 | 619.6 | 611.7 | 599.5 | 591.7 |
| 42.5° | 675.3 | 666.6 | 658.8 | 650.1 | 639.6 | 626.5 | 612.6 | 598.6 | 588.2 | 576.9 | 565.5 |
| 45° | 658.8 | 649.2 | 639.6 | 630.0 | 619.6 | 606.5 | 591.7 | 576.9 | 563.8 | 553.3 | 539.4 |
| 47.5° | 641.3 | 631.8 | 620.4 | 610.0 | 598.6 | 585.6 | 569.9 | 554.2 | 540.3 | 528.1 | 513.3 |
| 50° | 623.9 | 614.3 | 602.1 | 590.8 | 577.7 | 564.7 | 548.1 | 529.8 | 515.0 | 499.3 | 486.2 |
| 52.5° | 605.6 | 596.0 | 584.7 | 569.9 | 556.0 | 542.9 | 525.5 | 506.3 | 489.7 | 476.7 | 460.1 |
| 55° | 587.3 | 577.7 | 564.7 | 549.9 | 535.9 | 519.4 | 502.8 | 483.6 | 465.3 | 449.6 | 433.1 |
| 57.5° | 568.1 | 559.4 | 544.6 | 532.4 | 515.0 | 497.6 | 480.1 | 461.8 | 441.8 | 423.5 | 404.3 |
| 60° | 549.0 | 539.4 | 525.5 | 510.6 | 493.2 | 475.8 | 457.5 | 437.4 | 416.5 | 396.5 | 379.1 |
| 62.5° | 531.6 | 519.4 | 506.3 | 490.6 | 472.3 | 455.7 | 434.8 | 413.0 | 392.1 | 371.2 | 350.3 |
| 65° | 511.5 | 498.4 | 486.2 | 470.6 | 451.4 | 432.2 | 411.3 | 389.5 | 366.9 | 344.2 | 323.3 |
| 67.5° | 491.5 | 478.4 | 465.3 | 449.6 | 429.6 | 409.6 | 387.8 | 366.0 | 340.7 | 318.9 | 294.5 |
| 70° | 471.4 | 461.0 | 444.4 | 427.9 | 409.6 | 387.8 | 366.0 | 342.5 | 316.3 | 292.8 | 267.5 |
| 72.5° | 451.4 | 440.9 | 424.4 | 406.9 | 389.5 | 366.9 | 343.3 | 319.8 | 295.4 | 268.4 | 241.4 |
| 75° | 432.2 | 419.1 | 404.3 | 387.8 | 369.5 | 345.9 | 322.4 | 298.0 | 269.3 | 244.0 | 216.1 |
| 77.5° | 413.9 | 401.7 | 386.9 | 368.6 | 348.6 | 325.9 | 301.5 | 276.2 | 247.5 | 220.5 | 190.0 |
| 80° | 393.9 | 381.7 | 366.9 | 348.6 | 328.5 | 306.7 | 280.6 | 254.4 | 226.6 | 196.9 | 165.6 |
| 82.5° | 374.7 | 363.4 | 346.8 | 330.3 | 308.5 | 286.7 | 260.5 | 234.4 | 204.8 | 176.0 | 145.5 |
| 85° | 354.7 | 343.3 | 327.6 | 310.2 | 289.3 | 265.8 | 241.4 | 215.2 | 185.6 | 156.0 | 125.5 |
| 87.5° | 337.2 | 324.2 | 308.5 | 291.0 | 270.1 | 247.5 | 223.9 | 196.1 | 167.3 | 138.6 | 107.2 |
| 90° | 318.9 | 306.7 | 291.0 | 273.6 | 252.7 | 230.0 | 205.6 | 179.5 | 151.6 | 122.0 | 92.4 |
| 92.5° | 303.2 | 290.2 | 275.4 | 257.9 | 237.0 | 215.2 | 190.8 | 164.7 | 137.7 | 108.9 | 80.2 |
| 95° | 287.6 | 274.5 | 260.5 | 243.1 | 222.2 | 200.4 | 176.0 | 150.8 | 124.6 | 96.7 | 69.7 |
| 97.5° | 270.1 | 258.8 | 244.9 | 228.3 | 207.4 | 186.5 | 163.0 | 138.6 | 113.3 | 86.3 | 61.0 |
| 100° | 256.2 | 243.1 | 230.0 | 212.6 | 193.4 | 173.4 | 149.9 | 126.4 | 102.0 | 76.7 | 53.2 |
| 102.5° | 240.5 | 228.3 | 215.2 | 198.7 | 179.5 | 159.5 | 137.7 | 115.0 | 92.4 | 68.8 | 46.2 |
| 105° | 225.7 | 214.4 | 200.4 | 184.7 | 166.4 | 147.3 | 126.4 | 105.4 | 83.7 | 61.0 | 41.0 |
| 107.5° | 210.9 | 199.5 | 186.5 | 171.7 | 154.2 | 135.1 | 115.9 | 95.0 | 74.9 | 54.9 | 36.6 |
| 110° | 196.1 | 185.6 | 173.4 | 158.6 | 142.0 | 124.6 | 106.3 | 87.1 | 67.1 | 48.8 | 32.2 |



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 112.5° | 183.0 | 172.5 | 160.3 | 146.4 | 130.7 | 114.2 | 96.7 | 78.4 | 60.1 | 43.6 | 27.9 |
| 115° | 169.9 | 160.3 | 148.1 | 135.9 | 120.3 | 104.6 | 88.0 | 70.6 | 54.0 | 39.2 | 24.4 |
| 117.5° | 156.9 | 147.3 | 135.9 | 123.7 | 109.8 | 95.0 | 79.3 | 62.7 | 48.8 | 34.9 | 21.8 |
| 120° | 143.8 | 135.1 | 124.6 | 113.3 | 101.1 | 86.3 | 70.6 | 56.6 | 43.6 | 30.5 | 19.2 |
| 122.5° | 131.6 | 123.7 | 114.2 | 103.7 | 90.6 | 76.7 | 63.6 | 51.4 | 39.2 | 27.0 | 15.7 |
| 125° | 120.3 | 112.4 | 103.7 | 93.2 | 81.0 | 68.8 | 57.5 | 46.2 | 34.0 | 23.5 | 13.1 |
| 127.5° | 108.9 | 101.1 | 92.4 | 82.8 | 73.2 | 61.9 | 51.4 | 41.0 | 30.5 | 20.9 | 11.3 |
| 130° | 97.6 | 90.6 | 82.8 | 74.9 | 65.4 | 54.9 | 46.2 | 35.7 | 26.1 | 16.6 | 9.6 |
| 132.5° | 86.3 | 81.0 | 74.1 | 66.2 | 57.5 | 49.7 | 40.1 | 31.4 | 22.7 | 14.8 | 8.7 |
| 135° | 76.7 | 71.5 | 65.4 | 58.4 | 51.4 | 43.6 | 34.9 | 27.0 | 19.2 | 12.2 | 7.0 |
| 137.5° | 68.0 | 63.6 | 57.5 | 51.4 | 45.3 | 37.5 | 30.5 | 22.7 | 15.7 | 10.5 | 5.2 |
| 140° | 60.1 | 55.8 | 50.5 | 44.4 | 39.2 | 32.2 | 25.3 | 18.3 | 13.9 | 8.7 | 4.4 |
| 142.5° | 52.3 | 47.9 | 43.6 | 38.3 | 33.1 | 27.0 | 20.9 | 15.7 | 11.3 | 7.0 | 4.4 |
| 145° | 44.4 | 41.0 | 36.6 | 32.2 | 27.0 | 21.8 | 17.4 | 13.1 | 8.7 | 5.2 | 3.5 |
| 147.5° | 36.6 | 34.0 | 29.6 | 26.1 | 21.8 | 17.4 | 13.9 | 10.5 | 7.0 | 4.4 | 2.6 |
| 150° | 29.6 | 27.0 | 23.5 | 20.0 | 17.4 | 13.9 | 11.3 | 7.8 | 5.2 | 4.4 | 2.6 |
| 152.5° | 22.7 | 20.9 | 18.3 | 16.6 | 13.9 | 10.5 | 7.8 | 6.1 | 4.4 | 3.5 | 1.7 |
| 155° | 18.3 | 16.6 | 14.8 | 12.2 | 10.5 | 7.8 | 6.1 | 4.4 | 3.5 | 2.6 | 1.7 |
| 157.5° | 13.1 | 12.2 | 10.5 | 8.7 | 7.0 | 5.2 | 4.4 | 4.4 | 2.6 | 1.7 | 0.9 |
| 160° | 8.7 | 7.8 | 7.0 | 5.2 | 4.4 | 4.4 | 3.5 | 2.6 | 1.7 | 1.7 | 0.9 |
| 162.5° | 5.2 | 4.4 | 4.4 | 4.4 | 3.5 | 3.5 | 2.6 | 1.7 | 1.7 | 0.9 | 0.9 |
| 165° | 3.5 | 3.5 | 3.5 | 2.6 | 2.6 | 2.6 | 1.7 | 0.9 | 0.9 | 0.9 | 0.9 |
| 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: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 |
| 2.5° | 827.0 | 824.3 | 827.8 | 833.9 | 834.8 | 833.9 | 832.2 | 834.8 | 838.3 | 837.4 | 831.3 |
| 5° | 825.2 | 821.7 | 825.2 | 831.3 | 831.3 | 830.4 | 829.6 | 832.2 | 835.7 | 834.8 | 829.6 |
| 7.5° | 820.0 | 816.5 | 820.0 | 825.2 | 826.1 | 824.3 | 824.3 | 827.0 | 830.4 | 829.6 | 825.2 |
| 10° | 813.0 | 809.5 | 811.3 | 817.4 | 819.1 | 817.4 | 817.4 | 820.0 | 824.3 | 823.5 | 818.2 |
| 12.5° | 802.6 | 799.9 | 801.7 | 806.9 | 808.7 | 807.8 | 806.9 | 810.4 | 814.8 | 814.8 | 809.5 |
| 15° | 791.2 | 787.7 | 789.5 | 795.6 | 796.5 | 794.7 | 795.6 | 798.2 | 803.4 | 803.4 | 799.1 |
| 17.5° | 778.2 | 773.8 | 776.4 | 780.8 | 781.6 | 781.6 | 781.6 | 785.1 | 791.2 | 790.4 | 786.9 |
| 20° | 763.3 | 757.2 | 759.0 | 763.3 | 765.1 | 765.1 | 765.1 | 771.2 | 775.5 | 775.5 | 772.1 |
| 22.5° | 745.9 | 741.6 | 741.6 | 745.9 | 748.5 | 747.7 | 747.7 | 752.9 | 759.0 | 758.1 | 758.1 |
| 25° | 725.9 | 722.4 | 720.6 | 725.9 | 726.7 | 727.6 | 729.4 | 734.6 | 741.6 | 741.6 | 742.4 |
| 27.5° | 705.0 | 701.5 | 700.6 | 705.0 | 705.8 | 706.7 | 708.4 | 714.5 | 721.5 | 722.4 | 724.1 |
| 30° | 684.9 | 679.7 | 677.9 | 681.4 | 683.2 | 684.0 | 684.0 | 693.6 | 699.7 | 702.3 | 705.8 |
| 32.5° | 661.4 | 656.2 | 651.8 | 657.9 | 658.8 | 660.5 | 661.4 | 671.0 | 677.9 | 682.3 | 687.5 |
| 35° | 637.9 | 629.1 | 627.4 | 631.8 | 633.5 | 634.4 | 636.1 | 646.6 | 656.2 | 659.6 | 666.6 |
| 37.5° | 611.7 | 605.6 | 600.4 | 604.7 | 606.5 | 607.4 | 612.6 | 622.2 | 631.8 | 637.0 | 644.0 |
| 40° | 587.3 | 579.5 | 575.1 | 577.7 | 579.5 | 580.3 | 586.4 | 596.9 | 608.2 | 614.3 | 623.0 |
| 42.5° | 560.3 | 549.9 | 546.4 | 549.0 | 549.9 | 552.5 | 557.7 | 571.6 | 583.0 | 591.7 | 598.6 |
| 45° | 533.3 | 525.5 | 517.6 | 520.2 | 521.1 | 522.8 | 530.7 | 545.5 | 557.7 | 568.1 | 576.0 |
| 47.5° | 505.4 | 495.8 | 488.0 | 489.7 | 493.2 | 494.1 | 502.8 | 520.2 | 531.6 | 542.9 | 553.3 |
| 50° | 477.5 | 464.5 | 458.4 | 458.4 | 460.1 | 464.5 | 475.8 | 493.2 | 505.4 | 518.5 | 529.8 |
| 52.5° | 448.8 | 436.6 | 429.6 | 430.5 | 432.2 | 437.4 | 447.9 | 465.3 | 479.3 | 493.2 | 507.2 |
| 55° | 420.0 | 406.9 | 400.0 | 398.2 | 400.0 | 406.9 | 419.1 | 437.4 | 451.4 | 467.9 | 482.8 |
| 57.5° | 391.3 | 375.6 | 369.5 | 366.9 | 368.6 | 377.3 | 389.5 | 408.7 | 426.1 | 441.8 | 459.2 |
| 60° | 359.9 | 347.7 | 337.2 | 331.1 | 335.5 | 346.8 | 359.9 | 379.9 | 398.2 | 415.7 | 434.8 |
| 62.5° | 332.9 | 317.2 | 305.9 | 299.8 | 304.1 | 313.7 | 332.0 | 351.2 | 371.2 | 391.3 | 410.4 |
| 65° | 302.4 | 286.7 | 273.6 | 267.5 | 271.9 | 283.2 | 301.5 | 322.4 | 344.2 | 364.2 | 386.9 |
| 67.5° | 272.7 | 256.2 | 240.5 | 234.4 | 239.6 | 251.8 | 271.9 | 295.4 | 318.9 | 339.8 | 364.2 |
| 70° | 244.0 | 225.7 | 209.1 | 204.8 | 208.3 | 224.8 | 244.0 | 267.5 | 291.9 | 316.3 | 341.6 |
| 72.5° | 217.8 | 195.2 | 177.8 | 172.5 | 176.9 | 195.2 | 217.0 | 241.4 | 267.5 | 293.7 | 320.7 |
| 75° | 187.3 | 166.4 | 147.3 | 141.2 | 146.4 | 163.0 | 190.0 | 216.1 | 244.0 | 271.9 | 297.1 |
| 77.5° | 163.0 | 138.6 | 118.5 | 108.9 | 117.6 | 138.6 | 164.7 | 192.6 | 221.3 | 250.1 | 278.8 |
| 80° | 137.7 | 112.4 | 90.6 | 80.2 | 89.8 | 112.4 | 138.6 | 169.1 | 201.3 | 230.0 | 256.2 |
| 82.5° | 115.0 | 88.0 | 65.4 | 54.0 | 64.5 | 89.8 | 118.5 | 149.0 | 180.4 | 209.1 | 239.6 |
| 85° | 94.1 | 66.2 | 42.7 | 30.5 | 45.3 | 68.0 | 98.5 | 129.8 | 162.1 | 191.7 | 221.3 |
| 87.5° | 76.7 | 49.7 | 26.1 | 13.1 | 27.9 | 53.2 | 81.9 | 113.3 | 145.5 | 175.2 | 203.0 |
| 90° | 62.7 | 35.7 | 13.9 | 1.7 | 16.6 | 40.1 | 68.0 | 98.5 | 129.0 | 159.5 | 187.3 |
| 92.5° | 51.4 | 27.0 | 7.8 | 0.9 | 10.5 | 32.2 | 58.4 | 87.1 | 116.8 | 146.4 | 173.4 |
| 95° | 42.7 | 20.9 | 5.2 | 0.9 | 7.8 | 25.3 | 49.7 | 77.6 | 105.4 | 134.2 | 161.2 |
| 97.5° | 36.6 | 17.4 | 4.4 | 0.9 | 6.1 | 21.8 | 42.7 | 68.8 | 95.9 | 122.9 | 149.0 |
| 100° | 31.4 | 13.9 | 3.5 | 0.9 | 5.2 | 18.3 | 37.5 | 61.0 | 86.3 | 112.4 | 137.7 |
| 102.5° | 27.0 | 11.3 | 2.6 | 0.9 | 4.4 | 15.7 | 33.1 | 54.9 | 77.6 | 102.8 | 127.2 |
| 105° | 23.5 | 9.6 | 2.6 | 0.9 | 3.5 | 13.9 | 29.6 | 48.8 | 71.5 | 94.1 | 117.6 |
| 107.5° | 20.0 | 7.8 | 1.7 | 0.9 | 2.6 | 11.3 | 26.1 | 44.4 | 64.5 | 86.3 | 108.1 |
| 110° | 17.4 | 7.0 | 1.7 | 0.9 | 2.6 | 10.5 | 22.7 | 40.1 | 58.4 | 78.4 | 99.3 |



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 14.8 | 5.2 | 1.7 | 0.9 | 1.7 | 8.7 | 20.0 | 35.7 | 53.2 | 71.5 | 91.5 |
| 115° | 13.1 | 4.4 | 0.9 | 0.9 | 1.7 | 7.8 | 18.3 | 32.2 | 47.9 | 65.4 | 83.7 |
| 117.5° | 10.5 | 3.5 | 0.9 | 0.9 | 0.9 | 6.1 | 15.7 | 28.8 | 43.6 | 60.1 | 76.7 |
| 120° | 8.7 | 3.5 | 0.9 | 0.9 | 0.9 | 5.2 | 13.9 | 25.3 | 39.2 | 54.0 | 69.7 |
| 122.5° | 7.8 | 2.6 | 0.9 | 0.9 | 0.9 | 4.4 | 12.2 | 22.7 | 34.9 | 48.8 | 63.6 |
| 125° | 7.0 | 2.6 | 0.9 | 0.9 | 0.9 | 3.5 | 10.5 | 20.0 | 31.4 | 43.6 | 57.5 |
| 127.5° | 5.2 | 2.6 | 0.9 | 0.9 | 0.9 | 2.6 | 9.6 | 17.4 | 27.9 | 39.2 | 51.4 |
| 130° | 4.4 | 1.7 | 0.9 | 0.9 | 0.9 | 2.6 | 7.8 | 15.7 | 24.4 | 34.9 | 46.2 |
| 132.5° | 3.5 | 1.7 | 0.9 | 0.9 | 0.9 | 1.7 | 6.1 | 12.2 | 20.9 | 30.5 | 41.0 |
| 135° | 3.5 | 1.7 | 0.9 | 0.9 | 0.9 | 1.7 | 4.4 | 10.5 | 17.4 | 26.1 | 34.9 |
| 137.5° | 3.5 | 0.9 | 0.9 | 0.9 | 0.9 | 1.7 | 3.5 | 7.8 | 13.9 | 20.9 | 28.8 |
| 140° | 2.6 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 2.6 | 6.1 | 11.3 | 17.4 | 24.4 |
| 142.5° | 2.6 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 2.6 | 4.4 | 8.7 | 13.9 | 19.2 |
| 145° | 1.7 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.7 | 3.5 | 7.0 | 10.5 | 15.7 |
| 147.5° | 1.7 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.7 | 2.6 | 5.2 | 8.7 | 12.2 |
| 150° | 1.7 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.7 | 2.6 | 3.5 | 6.1 | 9.6 |
| 152.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.7 | 1.7 | 2.6 | 4.4 | 6.1 |
| 155° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.7 | 2.6 | 3.5 | 4.4 |
| 157.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.7 | 1.7 | 2.6 | 3.5 |
| 160° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.7 | 1.7 | 2.6 |
| 162.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.7 | 1.7 |
| 165° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 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: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 |
| 2.5° | 828.7 | 822.6 | 824.3 | 823.5 | 825.2 | 827.8 | 827.8 | 827.0 | 827.0 | 825.2 | 823.5 |
| 5° | 827.0 | 820.9 | 823.5 | 822.6 | 824.3 | 827.0 | 827.0 | 826.1 | 826.1 | 823.5 | 822.6 |
| 7.5° | 821.7 | 817.4 | 819.1 | 819.1 | 820.9 | 823.5 | 823.5 | 822.6 | 822.6 | 820.0 | 819.1 |
| 10° | 816.5 | 811.3 | 813.9 | 813.9 | 815.6 | 819.1 | 819.1 | 818.2 | 818.2 | 815.6 | 814.8 |
| 12.5° | 807.8 | 802.6 | 806.9 | 807.8 | 809.5 | 813.0 | 812.1 | 812.1 | 812.1 | 809.5 | 808.7 |
| 15° | 797.3 | 793.8 | 798.2 | 799.1 | 801.7 | 806.0 | 806.0 | 806.0 | 806.0 | 803.4 | 802.6 |
| 17.5° | 786.0 | 783.4 | 787.7 | 789.5 | 793.0 | 797.3 | 797.3 | 798.2 | 799.1 | 797.3 | 796.5 |
| 20° | 772.9 | 771.2 | 775.5 | 779.0 | 784.3 | 788.6 | 790.4 | 791.2 | 793.0 | 791.2 | 790.4 |
| 22.5° | 758.1 | 758.1 | 764.2 | 767.7 | 773.8 | 778.2 | 780.8 | 783.4 | 785.1 | 783.4 | 782.5 |
| 25° | 741.6 | 744.2 | 750.3 | 756.4 | 763.3 | 767.7 | 770.3 | 773.8 | 775.5 | 774.7 | 773.8 |
| 27.5° | 725.9 | 729.4 | 737.2 | 743.3 | 749.4 | 756.4 | 759.0 | 763.3 | 765.1 | 765.1 | 764.2 |
| 30° | 707.6 | 712.8 | 721.5 | 728.5 | 736.3 | 743.3 | 746.8 | 751.1 | 753.8 | 752.0 | 752.9 |
| 32.5° | 690.1 | 698.9 | 705.8 | 713.7 | 722.4 | 729.4 | 733.7 | 738.9 | 741.6 | 740.7 | 741.6 |
| 35° | 671.0 | 679.7 | 689.3 | 697.1 | 707.6 | 714.5 | 720.6 | 725.0 | 728.5 | 727.6 | 727.6 |
| 37.5° | 650.1 | 661.4 | 671.0 | 681.4 | 691.0 | 698.9 | 705.0 | 710.2 | 713.7 | 713.7 | 713.7 |
| 40° | 630.0 | 642.2 | 651.8 | 664.0 | 676.2 | 683.2 | 690.1 | 695.4 | 698.9 | 699.7 | 700.6 |
| 42.5° | 608.2 | 621.3 | 632.6 | 645.7 | 657.9 | 666.6 | 674.5 | 680.6 | 684.0 | 685.8 | 684.9 |
| 45° | 588.2 | 600.4 | 613.5 | 628.3 | 639.6 | 648.3 | 657.9 | 664.9 | 668.4 | 669.2 | 670.1 |
| 47.5° | 565.5 | 579.5 | 594.3 | 609.1 | 620.4 | 631.8 | 640.5 | 647.4 | 650.9 | 653.5 | 653.5 |
| 50° | 543.8 | 558.6 | 575.1 | 590.8 | 603.0 | 614.3 | 623.0 | 630.9 | 635.2 | 637.0 | 637.9 |
| 52.5° | 523.7 | 537.7 | 555.1 | 570.8 | 583.0 | 594.3 | 605.6 | 614.3 | 618.7 | 620.4 | 620.4 |
| 55° | 499.3 | 516.7 | 535.9 | 550.7 | 563.8 | 576.9 | 588.2 | 596.9 | 601.3 | 603.9 | 605.6 |
| 57.5° | 476.7 | 495.0 | 515.0 | 530.7 | 546.4 | 558.6 | 569.0 | 580.3 | 583.8 | 587.3 | 588.2 |
| 60° | 454.9 | 473.2 | 492.3 | 509.8 | 525.5 | 538.5 | 550.7 | 560.3 | 566.4 | 568.1 | 569.9 |
| 62.5° | 432.2 | 451.4 | 471.4 | 488.9 | 505.4 | 521.1 | 532.4 | 541.1 | 548.1 | 550.7 | 552.5 |
| 65° | 410.4 | 430.5 | 450.5 | 468.8 | 486.2 | 501.9 | 513.3 | 522.0 | 528.9 | 533.3 | 534.2 |
| 67.5° | 386.9 | 408.7 | 429.6 | 448.8 | 466.2 | 482.8 | 494.1 | 502.8 | 509.8 | 515.0 | 515.9 |
| 70° | 365.1 | 387.8 | 408.7 | 429.6 | 447.0 | 463.6 | 475.8 | 484.5 | 492.3 | 495.8 | 497.6 |
| 72.5° | 344.2 | 367.7 | 389.5 | 410.4 | 427.9 | 444.4 | 457.5 | 466.2 | 474.0 | 478.4 | 479.3 |
| 75° | 324.2 | 347.7 | 371.2 | 391.3 | 409.6 | 426.1 | 439.2 | 448.8 | 455.7 | 460.1 | 461.8 |
| 77.5° | 304.1 | 328.5 | 352.0 | 372.1 | 391.3 | 407.8 | 419.1 | 430.5 | 437.4 | 442.7 | 442.7 |
| 80° | 284.1 | 309.3 | 333.7 | 353.8 | 373.0 | 387.8 | 400.8 | 412.2 | 419.1 | 424.4 | 424.4 |
| 82.5° | 266.6 | 291.0 | 314.6 | 334.6 | 353.8 | 370.3 | 383.4 | 393.9 | 401.7 | 405.2 | 406.1 |
| 85° | 246.6 | 273.6 | 295.4 | 317.2 | 335.5 | 351.2 | 364.2 | 375.6 | 382.5 | 386.0 | 387.8 |
| 87.5° | 230.0 | 256.2 | 279.7 | 298.9 | 317.2 | 332.9 | 347.7 | 357.3 | 364.2 | 368.6 | 370.3 |
| 90° | 214.4 | 239.6 | 263.2 | 282.3 | 301.5 | 316.3 | 330.3 | 339.8 | 347.7 | 351.2 | 352.9 |
| 92.5° | 200.4 | 225.7 | 248.3 | 267.5 | 285.8 | 302.4 | 315.4 | 325.0 | 332.0 | 335.5 | 338.1 |
| 95° | 187.3 | 211.7 | 233.5 | 254.4 | 271.9 | 286.7 | 300.6 | 310.2 | 318.1 | 320.7 | 323.3 |
| 97.5° | 174.3 | 197.8 | 219.6 | 239.6 | 257.9 | 271.9 | 284.9 | 294.5 | 300.6 | 305.0 | 307.6 |
| 100° | 163.0 | 185.6 | 206.5 | 225.7 | 243.1 | 256.2 | 270.1 | 278.8 | 284.9 | 288.4 | 291.9 |
| 102.5° | 150.8 | 173.4 | 193.4 | 211.7 | 230.0 | 242.2 | 255.3 | 264.0 | 269.3 | 275.4 | 275.4 |
| 105° | 140.3 | 161.2 | 181.3 | 198.7 | 214.4 | 229.2 | 240.5 | 249.2 | 255.3 | 259.7 | 259.7 |
| 107.5° | 129.0 | 149.9 | 169.1 | 187.3 | 202.2 | 216.1 | 226.6 | 234.4 | 241.4 | 244.0 | 246.6 |
| 110° | 120.3 | 138.6 | 157.7 | 175.2 | 189.1 | 202.2 | 212.6 | 221.3 | 227.4 | 230.0 | 231.8 |



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 109.8 | 129.0 | 146.4 | 163.0 | 176.9 | 189.1 | 199.5 | 206.5 | 212.6 | 216.1 | 217.0 |
| 115° | 101.1 | 119.4 | 135.1 | 150.8 | 165.6 | 176.0 | 185.6 | 192.6 | 198.7 | 201.3 | 203.0 |
| 117.5° | 93.2 | 109.8 | 125.5 | 138.6 | 152.5 | 163.8 | 173.4 | 179.5 | 184.7 | 188.2 | 190.0 |
| 120° | 85.4 | 101.1 | 115.0 | 128.1 | 141.2 | 151.6 | 160.3 | 166.4 | 172.5 | 175.2 | 175.2 |
| 122.5° | 77.6 | 92.4 | 105.4 | 117.6 | 129.8 | 139.4 | 149.0 | 154.2 | 159.5 | 162.1 | 162.1 |
| 125° | 70.6 | 84.5 | 96.7 | 108.1 | 119.4 | 128.1 | 135.9 | 142.0 | 147.3 | 149.0 | 149.0 |
| 127.5° | 63.6 | 76.7 | 88.0 | 98.5 | 108.1 | 116.8 | 124.6 | 130.7 | 135.1 | 136.8 | 136.8 |
| 130° | 57.5 | 68.8 | 79.3 | 89.8 | 99.3 | 106.3 | 114.2 | 119.4 | 122.0 | 124.6 | 125.5 |
| 132.5° | 51.4 | 61.9 | 71.5 | 80.2 | 89.8 | 96.7 | 102.8 | 108.1 | 110.7 | 113.3 | 114.2 |
| 135° | 45.3 | 54.9 | 63.6 | 72.3 | 80.2 | 87.1 | 92.4 | 96.7 | 100.2 | 102.0 | 102.8 |
| 137.5° | 38.3 | 48.8 | 56.6 | 63.6 | 72.3 | 77.6 | 83.7 | 86.3 | 89.8 | 91.5 | 91.5 |
| 140° | 32.2 | 40.1 | 48.8 | 55.8 | 62.7 | 68.0 | 73.2 | 77.6 | 80.2 | 81.0 | 81.0 |
| 142.5° | 26.1 | 33.1 | 40.1 | 48.8 | 54.9 | 59.3 | 64.5 | 68.0 | 69.7 | 70.6 | 71.5 |
| 145° | 20.9 | 26.1 | 32.2 | 40.1 | 47.1 | 52.3 | 54.9 | 58.4 | 60.1 | 61.0 | 61.9 |
| 147.5° | 15.7 | 20.9 | 26.1 | 31.4 | 38.3 | 43.6 | 46.2 | 49.7 | 51.4 | 52.3 | 52.3 |
| 150° | 12.2 | 15.7 | 19.2 | 24.4 | 29.6 | 35.7 | 39.2 | 41.8 | 42.7 | 43.6 | 43.6 |
| 152.5° | 8.7 | 12.2 | 14.8 | 18.3 | 21.8 | 27.0 | 32.2 | 34.0 | 34.9 | 35.7 | 35.7 |
| 155° | 6.1 | 8.7 | 10.5 | 13.1 | 15.7 | 20.0 | 24.4 | 27.0 | 27.9 | 28.8 | 28.8 |
| 157.5° | 4.4 | 6.1 | 7.0 | 9.6 | 11.3 | 13.1 | 16.6 | 20.9 | 21.8 | 21.8 | 21.8 |
| 160° | 2.6 | 3.5 | 4.4 | 6.1 | 7.0 | 8.7 | 10.5 | 13.1 | 15.7 | 15.7 | 15.7 |
| 162.5° | 1.7 | 2.6 | 2.6 | 3.5 | 3.5 | 5.2 | 6.1 | 7.0 | 9.6 | 10.5 | 10.5 |
| 165° | 0.9 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 2.6 | 2.6 | 4.4 | 5.2 | 5.2 |
| 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: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 |
| 2.5° | 824.3 | 826.1 | 825.2 | 825.2 | 825.2 | 827.0 | 825.2 | 817.4 | 819.1 | 820.9 | 822.6 |
| 5° | 823.5 | 824.3 | 824.3 | 823.5 | 823.5 | 825.2 | 823.5 | 815.6 | 817.4 | 819.1 | 820.0 |
| 7.5° | 820.0 | 820.9 | 820.9 | 820.9 | 820.0 | 821.7 | 819.1 | 812.1 | 812.1 | 813.9 | 814.8 |
| 10° | 815.6 | 817.4 | 816.5 | 815.6 | 815.6 | 815.6 | 813.9 | 806.0 | 806.0 | 806.9 | 807.8 |
| 12.5° | 810.4 | 810.4 | 810.4 | 809.5 | 808.7 | 808.7 | 806.9 | 799.1 | 798.2 | 799.9 | 799.1 |
| 15° | 803.4 | 805.2 | 803.4 | 802.6 | 800.8 | 800.8 | 798.2 | 790.4 | 788.6 | 789.5 | 788.6 |
| 17.5° | 797.3 | 798.2 | 796.5 | 794.7 | 793.0 | 792.1 | 789.5 | 780.8 | 778.2 | 779.0 | 777.3 |
| 20° | 791.2 | 791.2 | 789.5 | 787.7 | 785.1 | 782.5 | 779.0 | 770.3 | 766.0 | 766.0 | 762.5 |
| 22.5° | 783.4 | 783.4 | 781.6 | 779.0 | 776.4 | 772.9 | 769.4 | 760.7 | 753.8 | 752.0 | 749.4 |
| 25° | 774.7 | 773.8 | 772.9 | 770.3 | 765.1 | 761.6 | 758.1 | 748.5 | 740.7 | 737.2 | 732.8 |
| 27.5° | 764.2 | 764.2 | 761.6 | 759.0 | 753.8 | 749.4 | 745.0 | 736.3 | 725.9 | 721.5 | 715.4 |
| 30° | 752.9 | 752.9 | 750.3 | 746.8 | 741.6 | 736.3 | 731.1 | 720.6 | 710.2 | 704.1 | 697.1 |
| 32.5° | 741.6 | 740.7 | 738.1 | 734.6 | 729.4 | 721.5 | 717.2 | 706.7 | 694.5 | 687.5 | 677.9 |
| 35° | 727.6 | 726.7 | 724.1 | 719.8 | 712.8 | 706.7 | 699.7 | 690.1 | 676.2 | 667.5 | 657.0 |
| 37.5° | 713.7 | 712.8 | 711.1 | 705.0 | 698.0 | 691.0 | 682.3 | 672.7 | 659.6 | 648.3 | 637.9 |
| 40° | 699.7 | 698.9 | 695.4 | 691.0 | 682.3 | 673.6 | 664.9 | 655.3 | 641.3 | 628.3 | 616.9 |
| 42.5° | 684.9 | 684.0 | 679.7 | 674.5 | 664.9 | 656.2 | 645.7 | 635.2 | 621.3 | 605.6 | 594.3 |
| 45° | 670.1 | 668.4 | 664.0 | 657.9 | 647.4 | 637.9 | 627.4 | 615.2 | 601.3 | 586.4 | 571.6 |
| 47.5° | 654.4 | 651.8 | 647.4 | 638.7 | 630.0 | 619.6 | 607.4 | 594.3 | 580.3 | 563.8 | 548.1 |
| 50° | 637.0 | 635.2 | 630.0 | 622.2 | 611.7 | 601.3 | 587.3 | 574.2 | 557.7 | 542.0 | 522.8 |
| 52.5° | 620.4 | 616.9 | 612.6 | 603.9 | 593.4 | 582.1 | 567.3 | 551.6 | 535.0 | 520.2 | 500.2 |
| 55° | 603.0 | 601.3 | 595.2 | 588.2 | 575.1 | 562.0 | 548.1 | 531.6 | 513.3 | 495.8 | 476.7 |
| 57.5° | 586.4 | 583.0 | 577.7 | 568.1 | 556.8 | 543.8 | 528.9 | 511.5 | 491.5 | 473.2 | 452.3 |
| 60° | 569.9 | 564.7 | 558.6 | 549.9 | 537.7 | 523.7 | 508.0 | 489.7 | 469.7 | 449.6 | 427.9 |
| 62.5° | 551.6 | 547.2 | 540.3 | 531.6 | 519.4 | 504.5 | 488.0 | 468.8 | 449.6 | 428.7 | 405.2 |
| 65° | 533.3 | 528.9 | 522.0 | 513.3 | 501.1 | 484.5 | 467.1 | 447.9 | 426.1 | 406.1 | 380.8 |
| 67.5° | 515.0 | 510.6 | 502.8 | 493.2 | 481.0 | 465.3 | 447.0 | 427.0 | 405.2 | 383.4 | 357.3 |
| 70° | 496.7 | 491.5 | 484.5 | 474.0 | 461.8 | 445.3 | 427.0 | 406.1 | 384.3 | 360.8 | 334.6 |
| 72.5° | 478.4 | 474.0 | 465.3 | 455.7 | 442.7 | 426.1 | 407.8 | 386.9 | 364.2 | 339.8 | 313.7 |
| 75° | 460.1 | 454.9 | 448.8 | 437.4 | 423.5 | 407.8 | 388.6 | 367.7 | 343.3 | 319.8 | 292.8 |
| 77.5° | 441.8 | 437.4 | 429.6 | 418.3 | 405.2 | 388.6 | 369.5 | 348.6 | 324.2 | 299.8 | 271.0 |
| 80° | 423.5 | 418.3 | 412.2 | 401.7 | 386.9 | 370.3 | 350.3 | 329.4 | 305.0 | 279.7 | 251.0 |
| 82.5° | 405.2 | 400.0 | 393.0 | 382.5 | 368.6 | 352.0 | 332.9 | 310.2 | 285.8 | 259.7 | 232.7 |
| 85° | 386.9 | 382.5 | 374.7 | 364.2 | 349.4 | 332.9 | 313.7 | 293.7 | 267.5 | 241.4 | 214.4 |
| 87.5° | 368.6 | 364.2 | 356.4 | 345.9 | 332.0 | 315.4 | 296.3 | 275.4 | 250.1 | 225.7 | 196.1 |
| 90° | 351.2 | 347.7 | 339.8 | 329.4 | 315.4 | 298.9 | 281.5 | 258.8 | 234.4 | 210.0 | 182.1 |
| 92.5° | 335.5 | 332.0 | 325.0 | 314.6 | 302.4 | 284.1 | 266.6 | 244.9 | 220.5 | 195.2 | 168.2 |
| 95° | 321.5 | 317.2 | 310.2 | 300.6 | 285.8 | 270.1 | 252.7 | 230.9 | 207.4 | 182.1 | 156.0 |
| 97.5° | 305.9 | 301.5 | 294.5 | 284.1 | 271.9 | 255.3 | 237.9 | 217.0 | 193.4 | 169.9 | 143.8 |
| 100° | 290.2 | 285.8 | 278.0 | 269.3 | 257.1 | 240.5 | 223.9 | 203.0 | 181.3 | 158.6 | 133.3 |
| 102.5° | 274.5 | 270.1 | 263.2 | 254.4 | 242.2 | 227.4 | 210.9 | 190.8 | 169.1 | 146.4 | 122.9 |
| 105° | 259.7 | 255.3 | 248.3 | 239.6 | 228.3 | 213.5 | 196.1 | 178.6 | 157.7 | 135.9 | 113.3 |
| 107.5° | 244.9 | 240.5 | 234.4 | 225.7 | 214.4 | 200.4 | 183.9 | 165.6 | 146.4 | 125.5 | 103.7 |
| 110° | 230.0 | 226.6 | 219.6 | 211.7 | 200.4 | 186.5 | 171.7 | 154.2 | 135.1 | 115.9 | 95.0 |



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 112.5° | 216.1 | 212.6 | 205.6 | 196.9 | 187.3 | 174.3 | 159.5 | 142.9 | 124.6 | 106.3 | 86.3 |
| 115° | 202.2 | 197.8 | 191.7 | 183.9 | 174.3 | 162.1 | 148.1 | 133.3 | 115.0 | 97.6 | 79.3 |
| 117.5° | 188.2 | 184.7 | 178.6 | 170.8 | 162.1 | 149.9 | 136.8 | 122.9 | 105.4 | 88.9 | 72.3 |
| 120° | 174.3 | 171.7 | 165.6 | 158.6 | 149.9 | 138.6 | 126.4 | 112.4 | 96.7 | 81.0 | 65.4 |
| 122.5° | 161.2 | 158.6 | 152.5 | 146.4 | 137.7 | 127.2 | 115.9 | 102.8 | 88.9 | 74.1 | 60.1 |
| 125° | 149.0 | 145.5 | 140.3 | 134.2 | 126.4 | 116.8 | 105.4 | 93.2 | 80.2 | 67.1 | 54.0 |
| 127.5° | 135.9 | 133.3 | 129.8 | 122.9 | 115.0 | 106.3 | 95.9 | 85.4 | 73.2 | 61.0 | 48.8 |
| 130° | 125.5 | 122.0 | 117.6 | 112.4 | 105.4 | 96.7 | 87.1 | 76.7 | 66.2 | 54.9 | 42.7 |
| 132.5° | 113.3 | 109.8 | 106.3 | 101.1 | 95.0 | 87.1 | 78.4 | 68.8 | 59.3 | 48.8 | 38.3 |
| 135° | 102.0 | 99.3 | 95.9 | 90.6 | 84.5 | 78.4 | 69.7 | 61.0 | 52.3 | 42.7 | 34.0 |
| 137.5° | 91.5 | 88.9 | 85.4 | 81.9 | 75.8 | 69.7 | 61.9 | 54.0 | 46.2 | 37.5 | 29.6 |
| 140° | 81.0 | 79.3 | 75.8 | 72.3 | 67.1 | 61.0 | 54.0 | 47.1 | 40.1 | 32.2 | 25.3 |
| 142.5° | 70.6 | 68.8 | 66.2 | 62.7 | 58.4 | 53.2 | 47.1 | 41.0 | 34.0 | 27.9 | 21.8 |
| 145° | 61.0 | 60.1 | 57.5 | 54.0 | 50.5 | 45.3 | 40.1 | 34.9 | 28.8 | 23.5 | 17.4 |
| 147.5° | 51.4 | 50.5 | 48.8 | 46.2 | 42.7 | 38.3 | 34.0 | 28.8 | 24.4 | 19.2 | 13.9 |
| 150° | 42.7 | 41.8 | 41.0 | 37.5 | 35.7 | 31.4 | 27.9 | 23.5 | 20.0 | 14.8 | 11.3 |
| 152.5° | 34.9 | 34.9 | 33.1 | 30.5 | 28.8 | 25.3 | 22.7 | 19.2 | 15.7 | 12.2 | 8.7 |
| 155° | 27.9 | 27.0 | 26.1 | 24.4 | 22.7 | 20.0 | 17.4 | 14.8 | 12.2 | 8.7 | 6.1 |
| 157.5° | 21.8 | 20.9 | 20.0 | 18.3 | 16.6 | 15.7 | 13.1 | 10.5 | 7.8 | 6.1 | 4.4 |
| 160° | 15.7 | 14.8 | 13.9 | 13.1 | 12.2 | 10.5 | 8.7 | 7.0 | 5.2 | 3.5 | 2.6 |
| 162.5° | 10.5 | 9.6 | 9.6 | 8.7 | 7.8 | 6.1 | 5.2 | 4.4 | 3.5 | 2.6 | 1.7 |
| 165° | 5.2 | 5.2 | 4.4 | 4.4 | 3.5 | 2.6 | 2.6 | 2.6 | 1.7 | 1.7 | 0.9 |
| 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: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 | 826.1 |
| 2.5° | 821.7 | 821.7 | 825.2 | 824.3 | 821.7 | 827.0 | 833.1 |
| 5° | 819.1 | 819.1 | 821.7 | 821.7 | 819.1 | 824.3 | 829.6 |
| 7.5° | 814.8 | 813.9 | 816.5 | 816.5 | 813.0 | 817.4 | 823.5 |
| 10° | 806.9 | 806.0 | 808.7 | 808.7 | 805.2 | 809.5 | 814.8 |
| 12.5° | 798.2 | 796.5 | 799.1 | 798.2 | 794.7 | 799.1 | 804.3 |
| 15° | 786.9 | 786.0 | 787.7 | 786.0 | 782.5 | 786.9 | 792.1 |
| 17.5° | 775.5 | 772.9 | 773.8 | 773.8 | 767.7 | 772.1 | 776.4 |
| 20° | 760.7 | 757.2 | 758.1 | 757.2 | 752.9 | 755.5 | 760.7 |
| 22.5° | 745.9 | 740.7 | 740.7 | 739.8 | 734.6 | 738.1 | 742.4 |
| 25° | 727.6 | 721.5 | 721.5 | 720.6 | 714.5 | 717.2 | 721.5 |
| 27.5° | 709.3 | 703.2 | 700.6 | 699.7 | 693.6 | 693.6 | 699.7 |
| 30° | 690.1 | 681.4 | 679.7 | 677.1 | 671.0 | 671.0 | 676.2 |
| 32.5° | 671.8 | 659.6 | 656.2 | 652.7 | 646.6 | 645.7 | 651.8 |
| 35° | 647.4 | 637.9 | 631.8 | 628.3 | 621.3 | 619.6 | 624.8 |
| 37.5° | 627.4 | 615.2 | 606.5 | 602.1 | 595.2 | 592.5 | 599.5 |
| 40° | 605.6 | 592.5 | 581.2 | 578.6 | 568.1 | 564.7 | 570.8 |
| 42.5° | 581.2 | 567.3 | 556.0 | 550.7 | 542.9 | 539.4 | 540.3 |
| 45° | 556.8 | 542.0 | 529.8 | 522.8 | 515.0 | 508.9 | 512.4 |
| 47.5° | 531.6 | 518.5 | 503.7 | 493.2 | 483.6 | 479.3 | 481.0 |
| 50° | 506.3 | 490.6 | 476.7 | 465.3 | 454.0 | 448.8 | 452.3 |
| 52.5° | 481.0 | 464.5 | 448.8 | 436.6 | 423.5 | 418.3 | 419.1 |
| 55° | 456.6 | 439.2 | 420.9 | 407.8 | 395.6 | 387.8 | 386.0 |
| 57.5° | 432.2 | 413.0 | 393.9 | 379.1 | 363.4 | 356.4 | 353.8 |
| 60° | 406.1 | 386.0 | 366.0 | 348.6 | 332.0 | 324.2 | 320.7 |
| 62.5° | 381.7 | 359.9 | 337.2 | 318.9 | 302.4 | 291.9 | 289.3 |
| 65° | 358.1 | 332.9 | 310.2 | 289.3 | 271.0 | 259.7 | 256.2 |
| 67.5° | 332.9 | 306.7 | 282.3 | 259.7 | 242.2 | 227.4 | 225.7 |
| 70° | 309.3 | 281.5 | 254.4 | 230.9 | 211.7 | 196.9 | 190.0 |
| 72.5° | 285.8 | 257.1 | 229.2 | 203.9 | 179.5 | 165.6 | 160.3 |
| 75° | 263.2 | 233.5 | 203.9 | 177.8 | 150.8 | 134.2 | 129.0 |
| 77.5° | 242.2 | 211.7 | 180.4 | 151.6 | 126.4 | 105.4 | 98.5 |
| 80° | 222.2 | 190.8 | 157.7 | 128.1 | 101.1 | 78.4 | 70.6 |
| 82.5° | 201.3 | 171.7 | 137.7 | 106.3 | 78.4 | 54.9 | 45.3 |
| 85° | 183.0 | 153.4 | 119.4 | 88.0 | 60.1 | 34.9 | 24.4 |
| 87.5° | 168.2 | 135.9 | 105.4 | 74.1 | 45.3 | 20.0 | 7.0 |
| 90° | 153.4 | 122.0 | 91.5 | 61.0 | 34.0 | 11.3 | 0.9 |
| 92.5° | 140.3 | 110.7 | 80.2 | 52.3 | 26.1 | 7.8 | 0.9 |
| 95° | 128.1 | 99.3 | 70.6 | 43.6 | 20.9 | 5.2 | 0.9 |
| 97.5° | 116.8 | 89.8 | 62.7 | 37.5 | 17.4 | 4.4 | 0.9 |
| 100° | 107.2 | 81.0 | 55.8 | 33.1 | 14.8 | 3.5 | 0.9 |
| 102.5° | 97.6 | 73.2 | 49.7 | 28.8 | 13.1 | 2.6 | 0.9 |
| 105° | 89.8 | 66.2 | 44.4 | 26.1 | 11.3 | 2.6 | 0.9 |
| 107.5° | 81.9 | 60.1 | 40.1 | 22.7 | 9.6 | 1.7 | 0.9 |
| 110° | 74.1 | 54.9 | 35.7 | 20.0 | 8.7 | 1.7 | 0.9 |



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|------|------|------|------|------|------|------|
| 112.5° | 68.0 | 49.7 | 32.2 | 18.3 | 7.0 | 1.7 | 0.9 |
| 115° | 61.9 | 44.4 | 28.8 | 15.7 | 6.1 | 0.9 | 0.9 |
| 117.5° | 55.8 | 40.1 | 25.3 | 13.9 | 5.2 | 0.9 | 0.9 |
| 120° | 50.5 | 35.7 | 22.7 | 12.2 | 4.4 | 0.9 | 0.9 |
| 122.5° | 45.3 | 32.2 | 20.0 | 10.5 | 3.5 | 0.9 | 0.9 |
| 125° | 41.0 | 28.8 | 17.4 | 8.7 | 2.6 | 0.9 | 0.9 |
| 127.5° | 36.6 | 25.3 | 15.7 | 7.8 | 2.6 | 0.9 | 0.9 |
| 130° | 32.2 | 22.7 | 13.1 | 6.1 | 1.7 | 0.9 | 0.9 |
| 132.5° | 28.8 | 19.2 | 11.3 | 5.2 | 1.7 | 0.9 | 0.9 |
| 135° | 25.3 | 16.6 | 9.6 | 3.5 | 1.7 | 0.9 | 0.9 |
| 137.5° | 21.8 | 13.9 | 7.8 | 2.6 | 0.9 | 0.9 | 0.9 |
| 140° | 18.3 | 12.2 | 6.1 | 2.6 | 0.9 | 0.9 | 0.9 |
| 142.5° | 15.7 | 9.6 | 4.4 | 1.7 | 0.9 | 0.9 | 0.9 |
| 145° | 12.2 | 7.8 | 3.5 | 1.7 | 0.9 | 0.9 | 0.9 |
| 147.5° | 9.6 | 6.1 | 2.6 | 1.7 | 0.9 | 0.9 | 0.9 |
| 150° | 7.0 | 4.4 | 2.6 | 0.9 | 0.9 | 0.9 | 0.9 |
| 152.5° | 5.2 | 3.5 | 1.7 | 0.9 | 0.9 | 0.9 | 0.9 |
| 155° | 3.5 | 2.6 | 1.7 | 0.9 | 0.9 | 0.9 | 0.9 |
| 157.5° | 2.6 | 1.7 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 160° | 1.7 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 162.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 165° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 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)