

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-L930-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-L930-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

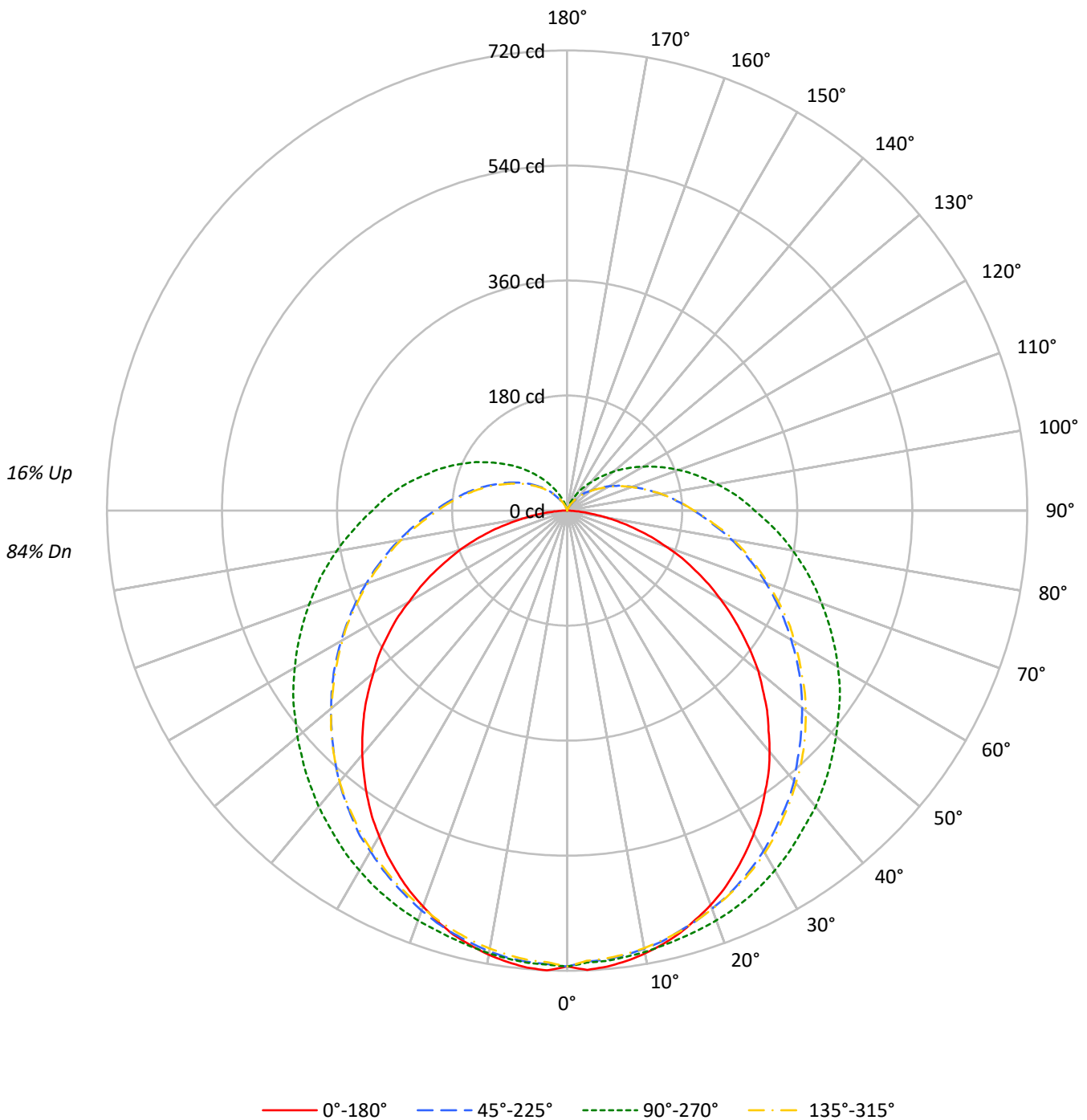
Lumens per Lamp: N/A
Luminaire Lumens: 3099.0 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

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



TEST NUMBER: P#
CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L930-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L930-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° | 11528 | 11528 | 11528 | 11528 |
| 5° | 11558 | 11110 | 11582 | 11157 |
| 10° | 11420 | 10795 | 11457 | 10829 |
| 15° | 11256 | 10524 | 11306 | 10536 |
| 20° | 11047 | 10326 | 11084 | 10326 |
| 25° | 10795 | 10151 | 10861 | 10141 |
| 30° | 10517 | 9971 | 10598 | 9971 |
| 35° | 10198 | 9804 | 10312 | 9816 |
| 40° | 9879 | 9705 | 10001 | 9705 |
| 45° | 9517 | 9604 | 9663 | 9615 |
| 50° | 9138 | 9543 | 9262 | 9569 |
| 55° | 8622 | 9552 | 8896 | 9592 |
| 60° | 8076 | 9581 | 8339 | 9639 |
| 65° | 7459 | 9676 | 7790 | 9771 |
| 70° | 6614 | 9854 | 7130 | 9994 |
| 75° | 5641 | 10177 | 6172 | 10372 |
| 80° | 4185 | 10655 | 4755 | 10899 |
| 85° | 2282 | 11420 | 2845 | 11735 |



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L930-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 67.6 | 2.2 |
| 10°-20° | 194.2 | 6.3 |
| 20°-30° | 297.7 | 9.6 |
| 30°-40° | 367.3 | 11.9 |
| 40°-50° | 398.5 | 12.9 |
| 50°-60° | 392.8 | 12.7 |
| 60°-70° | 355.1 | 11.5 |
| 70°-80° | 295.9 | 9.5 |
| 80°-90° | 229.2 | 7.4 |
| 90°-100° | 173.8 | 5.6 |
| 100°-110° | 128.6 | 4.2 |
| 110°-120° | 89.5 | 2.9 |
| 120°-130° | 57.1 | 1.8 |
| 130°-140° | 32.0 | 1.0 |
| 140°-150° | 14.6 | 0.5 |
| 150°-160° | 4.5 | 0.1 |
| 160°-170° | 0.6 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 559.5 | 18.1 |
| 0°-40° | 926.8 | 29.9 |
| 0°-60° | 1718.2 | 55.4 |
| 0°-90° | 2598.3 | 83.8 |
| 90°-120° | 391.9 | 12.6 |
| 90°-150° | 495.6 | 16.0 |
| 90°-180° | 501.0 | 16.2 |
| 0°-180° | 3099.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|-----|-----|------|------|------|------|
| 0° | 713 | 713 | 713 | 713 | 713 | |
| 5° | 716 | 707 | 718 | 710 | 716 | 68 |
| 15° | 684 | 692 | 687 | 693 | 684 | 193 |
| 25° | 623 | 669 | 627 | 668 | 623 | 287 |
| 35° | 540 | 628 | 546 | 628 | 540 | 338 |
| 45° | 442 | 578 | 449 | 579 | 442 | 341 |
| 55° | 333 | 521 | 344 | 523 | 333 | 298 |
| 65° | 221 | 457 | 231 | 461 | 221 | 219 |
| 75° | 111 | 391 | 122 | 399 | 111 | 118 |
| 85° | 21 | 326 | 26 | 335 | 21 | 25 |
| 90° | 1 | 293 | 2 | 305 | 1 | 1 |
| 95° | 1 | 266 | 1 | 279 | 1 | 1 |
| 105° | 1 | 211 | 1 | 224 | 1 | 1 |
| 115° | 1 | 161 | 1 | 175 | 1 | 1 |
| 125° | 1 | 116 | 1 | 129 | 1 | 1 |
| 135° | 1 | 75 | 1 | 89 | 1 | 1 |
| 145° | 1 | 44 | 1 | 53 | 1 | 1 |
| 155° | 1 | 18 | 1 | 25 | 1 | 0 |
| 165° | 1 | 3 | 1 | 4 | 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-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 |
| 2.5° | 719.3 | 719.3 | 718.6 | 717.1 | 717.8 | 720.1 | 718.6 | 714.8 | 712.5 | 706.5 | 708.0 |
| 5° | 716.3 | 716.3 | 715.6 | 714.1 | 714.8 | 717.8 | 716.3 | 713.3 | 710.3 | 705.0 | 707.3 |
| 7.5° | 711.0 | 711.0 | 710.3 | 708.8 | 710.3 | 713.3 | 711.8 | 708.8 | 706.5 | 701.3 | 703.5 |
| 10° | 703.5 | 704.3 | 703.5 | 701.3 | 704.3 | 707.3 | 706.5 | 702.8 | 700.5 | 696.0 | 698.3 |
| 12.5° | 694.5 | 695.2 | 694.5 | 693.7 | 695.2 | 699.8 | 698.3 | 695.2 | 693.7 | 690.0 | 692.2 |
| 15° | 684.0 | 684.7 | 683.2 | 683.2 | 684.7 | 689.2 | 689.2 | 686.2 | 684.7 | 680.9 | 685.5 |
| 17.5° | 670.4 | 671.2 | 670.4 | 670.4 | 671.9 | 676.4 | 677.2 | 675.7 | 674.2 | 672.7 | 677.2 |
| 20° | 656.9 | 656.1 | 656.1 | 655.4 | 658.4 | 665.1 | 664.4 | 664.4 | 662.9 | 662.9 | 668.2 |
| 22.5° | 641.1 | 641.1 | 640.3 | 640.3 | 644.1 | 650.1 | 650.1 | 651.6 | 650.1 | 653.1 | 657.6 |
| 25° | 623.0 | 623.8 | 623.0 | 624.5 | 627.5 | 634.3 | 635.0 | 637.3 | 638.1 | 641.1 | 646.3 |
| 27.5° | 604.2 | 604.9 | 604.2 | 605.7 | 611.0 | 616.2 | 620.0 | 623.0 | 623.8 | 628.3 | 635.0 |
| 30° | 583.9 | 583.9 | 584.6 | 586.1 | 592.2 | 600.4 | 603.4 | 607.2 | 607.2 | 614.7 | 621.5 |
| 32.5° | 562.8 | 562.8 | 562.8 | 565.8 | 572.6 | 582.4 | 586.1 | 590.7 | 592.2 | 599.7 | 607.2 |
| 35° | 539.5 | 540.2 | 540.2 | 542.5 | 551.5 | 561.3 | 566.6 | 571.8 | 574.9 | 583.9 | 591.4 |
| 37.5° | 517.7 | 519.2 | 516.9 | 519.9 | 532.7 | 541.0 | 547.0 | 552.3 | 557.5 | 569.6 | 575.6 |
| 40° | 492.8 | 494.3 | 493.6 | 499.6 | 510.1 | 520.7 | 527.4 | 532.7 | 540.2 | 552.3 | 559.1 |
| 42.5° | 466.5 | 468.0 | 469.5 | 476.3 | 487.6 | 498.1 | 506.4 | 513.2 | 522.2 | 532.7 | 544.0 |
| 45° | 442.4 | 442.4 | 444.7 | 453.0 | 465.0 | 476.3 | 486.1 | 493.6 | 504.1 | 515.4 | 526.7 |
| 47.5° | 415.3 | 416.1 | 419.1 | 428.9 | 441.7 | 455.2 | 464.2 | 474.0 | 485.3 | 497.4 | 510.1 |
| 50° | 390.5 | 390.5 | 395.0 | 405.6 | 417.6 | 432.6 | 442.4 | 453.7 | 465.8 | 480.0 | 492.8 |
| 52.5° | 361.9 | 363.4 | 370.2 | 380.0 | 395.8 | 409.3 | 420.6 | 432.6 | 446.9 | 462.0 | 476.3 |
| 55° | 333.3 | 336.3 | 341.6 | 355.1 | 371.7 | 384.5 | 398.0 | 413.1 | 426.6 | 443.2 | 459.7 |
| 57.5° | 305.5 | 307.7 | 316.0 | 329.6 | 346.9 | 362.7 | 377.0 | 391.3 | 407.8 | 424.4 | 441.7 |
| 60° | 276.9 | 279.9 | 289.7 | 303.2 | 322.0 | 338.6 | 355.1 | 370.2 | 387.5 | 404.8 | 422.9 |
| 62.5° | 249.8 | 252.1 | 263.3 | 279.1 | 298.0 | 316.0 | 332.6 | 350.6 | 369.4 | 386.0 | 404.1 |
| 65° | 221.2 | 225.0 | 237.8 | 252.1 | 273.9 | 291.9 | 310.8 | 330.3 | 349.9 | 367.9 | 385.2 |
| 67.5° | 194.9 | 197.1 | 210.7 | 227.2 | 249.1 | 269.4 | 288.9 | 310.0 | 330.3 | 349.1 | 366.4 |
| 70° | 164.0 | 171.6 | 185.1 | 202.4 | 225.7 | 246.8 | 267.9 | 289.7 | 311.5 | 331.1 | 347.6 |
| 72.5° | 138.4 | 144.5 | 159.5 | 178.3 | 200.9 | 225.7 | 247.5 | 270.9 | 292.7 | 313.0 | 330.3 |
| 75° | 111.4 | 117.4 | 134.7 | 155.8 | 179.1 | 205.4 | 228.0 | 252.1 | 274.6 | 295.0 | 313.0 |
| 77.5° | 85.0 | 92.5 | 111.4 | 133.2 | 158.8 | 185.8 | 209.2 | 233.3 | 256.6 | 278.4 | 296.5 |
| 80° | 60.9 | 69.2 | 89.5 | 114.4 | 139.2 | 166.3 | 191.9 | 215.9 | 239.3 | 261.1 | 279.9 |
| 82.5° | 39.1 | 48.2 | 70.0 | 94.8 | 121.1 | 148.2 | 174.6 | 198.6 | 222.0 | 243.8 | 263.3 |
| 85° | 21.1 | 30.8 | 53.4 | 78.3 | 104.6 | 131.7 | 158.0 | 183.6 | 206.2 | 226.5 | 247.5 |
| 87.5° | 6.0 | 18.1 | 39.9 | 64.7 | 91.8 | 116.6 | 142.2 | 167.8 | 190.4 | 212.2 | 231.0 |
| 90° | 0.8 | 10.5 | 30.1 | 53.4 | 79.8 | 103.8 | 129.4 | 153.5 | 176.1 | 197.9 | 216.7 |
| 92.5° | 0.8 | 6.8 | 23.3 | 44.4 | 68.5 | 93.3 | 118.9 | 142.2 | 163.3 | 185.1 | 203.9 |
| 95° | 0.8 | 5.3 | 18.8 | 37.6 | 60.2 | 83.5 | 107.6 | 130.2 | 152.0 | 172.3 | 191.1 |
| 97.5° | 0.8 | 3.8 | 15.0 | 32.4 | 52.7 | 74.5 | 97.8 | 120.4 | 141.5 | 161.0 | 178.3 |
| 100° | 0.8 | 3.0 | 12.0 | 27.8 | 45.9 | 67.0 | 88.0 | 109.9 | 130.2 | 149.0 | 167.0 |
| 102.5° | 0.8 | 2.3 | 10.5 | 23.3 | 40.6 | 59.4 | 79.8 | 100.1 | 119.6 | 137.7 | 155.8 |
| 105° | 0.8 | 2.3 | 9.0 | 20.3 | 36.1 | 53.4 | 72.2 | 91.8 | 109.9 | 127.2 | 143.7 |
| 107.5° | 0.8 | 1.5 | 7.5 | 17.3 | 31.6 | 48.2 | 65.5 | 84.3 | 100.8 | 117.4 | 133.2 |
| 110° | 0.8 | 1.5 | 6.0 | 15.8 | 27.8 | 42.9 | 59.4 | 76.7 | 92.5 | 108.3 | 123.4 |



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-----|-----|-----|------|------|------|------|------|------|-------|-------|
| 112.5° | 0.8 | 1.5 | 5.3 | 13.5 | 24.1 | 38.4 | 53.4 | 69.2 | 84.3 | 100.1 | 113.6 |
| 115° | 0.8 | 1.5 | 4.5 | 12.0 | 22.6 | 33.1 | 48.2 | 62.5 | 77.5 | 91.8 | 104.6 |
| 117.5° | 0.8 | 1.5 | 3.8 | 9.8 | 19.6 | 30.1 | 42.1 | 56.4 | 70.0 | 83.5 | 95.6 |
| 120° | 0.8 | 1.5 | 3.0 | 9.0 | 17.3 | 27.1 | 37.6 | 50.4 | 63.2 | 76.0 | 88.8 |
| 122.5° | 0.8 | 0.8 | 3.0 | 7.5 | 15.0 | 24.1 | 34.6 | 44.4 | 56.4 | 68.5 | 79.8 |
| 125° | 0.8 | 0.8 | 3.0 | 6.8 | 12.8 | 21.8 | 30.8 | 39.9 | 50.4 | 60.9 | 70.7 |
| 127.5° | 0.8 | 0.8 | 2.3 | 5.3 | 11.3 | 18.8 | 27.1 | 36.9 | 44.4 | 54.2 | 64.0 |
| 130° | 0.8 | 0.8 | 2.3 | 4.5 | 9.8 | 15.8 | 24.1 | 32.4 | 41.4 | 48.2 | 56.4 |
| 132.5° | 0.8 | 0.8 | 2.3 | 3.8 | 7.5 | 12.8 | 20.3 | 27.8 | 36.1 | 43.6 | 50.4 |
| 135° | 0.8 | 0.8 | 1.5 | 3.0 | 6.0 | 10.5 | 16.6 | 23.3 | 31.6 | 39.1 | 45.9 |
| 137.5° | 0.8 | 0.8 | 1.5 | 3.0 | 4.5 | 9.0 | 12.8 | 18.8 | 26.3 | 33.1 | 39.9 |
| 140° | 0.8 | 0.8 | 1.5 | 2.3 | 3.8 | 6.8 | 10.5 | 15.0 | 21.1 | 27.1 | 34.6 |
| 142.5° | 0.8 | 0.8 | 0.8 | 2.3 | 3.0 | 5.3 | 8.3 | 12.0 | 16.6 | 21.8 | 27.8 |
| 145° | 0.8 | 0.8 | 0.8 | 2.3 | 3.0 | 3.8 | 6.8 | 9.8 | 12.8 | 16.6 | 21.8 |
| 147.5° | 0.8 | 0.8 | 0.8 | 1.5 | 2.3 | 3.0 | 5.3 | 7.5 | 9.8 | 12.8 | 15.8 |
| 150° | 0.8 | 0.8 | 0.8 | 1.5 | 2.3 | 3.0 | 3.8 | 5.3 | 7.5 | 10.5 | 12.8 |
| 152.5° | 0.8 | 0.8 | 0.8 | 1.5 | 1.5 | 2.3 | 3.0 | 3.8 | 5.3 | 7.5 | 9.0 |
| 155° | 0.8 | 0.8 | 0.8 | 0.8 | 1.5 | 2.3 | 3.0 | 3.0 | 3.8 | 5.3 | 6.8 |
| 157.5° | 0.8 | 0.8 | 0.8 | 0.8 | 1.5 | 1.5 | 2.3 | 2.3 | 3.0 | 3.0 | 4.5 |
| 160° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.5 | 1.5 | 2.3 | 2.3 | 2.3 | 2.3 |
| 162.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.5 | 1.5 | 1.5 | 2.3 | 2.3 |
| 165° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.5 | 1.5 | 1.5 |
| 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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 |
| 2.5° | 708.0 | 708.8 | 711.0 | 711.0 | 709.5 | 709.5 | 708.8 | 708.0 | 708.8 | 710.3 | 710.3 |
| 5° | 706.5 | 707.3 | 709.5 | 710.3 | 708.8 | 708.0 | 708.0 | 707.3 | 708.0 | 709.5 | 709.5 |
| 7.5° | 703.5 | 704.3 | 706.5 | 707.3 | 705.8 | 705.8 | 705.0 | 704.3 | 705.8 | 706.5 | 706.5 |
| 10° | 699.0 | 699.8 | 702.8 | 703.5 | 702.8 | 702.0 | 702.0 | 701.3 | 702.0 | 703.5 | 703.5 |
| 12.5° | 693.0 | 694.5 | 698.3 | 698.3 | 698.3 | 697.5 | 697.5 | 696.7 | 697.5 | 699.0 | 698.3 |
| 15° | 686.2 | 689.2 | 692.2 | 693.7 | 693.7 | 693.7 | 693.0 | 692.2 | 693.7 | 694.5 | 693.7 |
| 17.5° | 678.7 | 682.4 | 687.0 | 688.5 | 688.5 | 689.2 | 688.5 | 687.7 | 689.2 | 689.2 | 688.5 |
| 20° | 671.2 | 674.9 | 679.4 | 680.9 | 682.4 | 683.2 | 683.2 | 682.4 | 683.2 | 684.0 | 683.2 |
| 22.5° | 661.4 | 665.9 | 671.2 | 673.4 | 674.9 | 676.4 | 676.4 | 676.4 | 677.2 | 677.9 | 676.4 |
| 25° | 650.8 | 656.1 | 662.1 | 664.4 | 667.4 | 668.2 | 668.9 | 668.9 | 669.7 | 670.4 | 668.2 |
| 27.5° | 639.6 | 645.6 | 651.6 | 655.4 | 657.6 | 659.1 | 659.1 | 659.9 | 660.6 | 661.4 | 659.1 |
| 30° | 626.0 | 635.0 | 640.3 | 643.3 | 646.3 | 648.6 | 649.3 | 650.1 | 650.8 | 651.6 | 649.3 |
| 32.5° | 614.0 | 621.5 | 628.3 | 632.0 | 635.8 | 638.8 | 639.6 | 639.6 | 641.1 | 641.1 | 638.8 |
| 35° | 599.7 | 608.7 | 615.5 | 619.2 | 623.8 | 626.0 | 627.5 | 627.5 | 629.0 | 629.0 | 626.8 |
| 37.5° | 585.4 | 594.4 | 601.9 | 606.5 | 611.7 | 614.7 | 615.5 | 615.5 | 617.0 | 617.0 | 614.0 |
| 40° | 570.3 | 580.1 | 588.4 | 593.7 | 598.2 | 601.9 | 602.7 | 604.9 | 604.9 | 604.2 | 601.2 |
| 42.5° | 555.3 | 564.3 | 573.3 | 579.4 | 585.4 | 589.1 | 590.7 | 591.4 | 591.4 | 590.7 | 588.4 |
| 45° | 538.7 | 549.3 | 557.5 | 565.1 | 571.1 | 574.9 | 577.1 | 577.9 | 577.9 | 576.4 | 574.1 |
| 47.5° | 522.9 | 533.5 | 541.7 | 550.0 | 556.0 | 560.6 | 562.8 | 563.6 | 562.8 | 562.1 | 559.8 |
| 50° | 506.4 | 518.4 | 526.7 | 535.0 | 541.0 | 544.8 | 548.5 | 549.3 | 548.5 | 547.8 | 543.3 |
| 52.5° | 489.1 | 501.9 | 510.9 | 519.2 | 525.9 | 530.5 | 533.5 | 534.2 | 534.2 | 532.7 | 529.7 |
| 55° | 471.8 | 483.1 | 494.3 | 503.4 | 510.9 | 515.4 | 519.2 | 520.7 | 519.2 | 517.7 | 513.9 |
| 57.5° | 456.0 | 466.5 | 477.8 | 487.6 | 495.1 | 501.1 | 504.1 | 505.6 | 504.1 | 501.9 | 498.1 |
| 60° | 437.2 | 448.4 | 461.2 | 470.3 | 478.5 | 484.6 | 486.1 | 489.1 | 487.6 | 485.3 | 481.6 |
| 62.5° | 419.1 | 432.6 | 443.9 | 455.2 | 462.0 | 468.8 | 471.8 | 473.3 | 471.8 | 469.5 | 465.8 |
| 65° | 400.3 | 415.3 | 426.6 | 437.9 | 445.4 | 452.2 | 456.0 | 456.7 | 455.2 | 453.0 | 449.2 |
| 67.5° | 383.0 | 397.3 | 409.3 | 421.4 | 428.1 | 434.9 | 438.7 | 440.2 | 438.7 | 435.7 | 431.9 |
| 70° | 365.7 | 380.0 | 394.3 | 403.3 | 411.6 | 419.1 | 421.4 | 423.6 | 422.1 | 419.1 | 414.6 |
| 72.5° | 348.4 | 363.4 | 377.7 | 386.7 | 395.8 | 402.5 | 405.6 | 407.8 | 406.3 | 403.3 | 398.0 |
| 75° | 330.3 | 346.1 | 360.4 | 370.2 | 379.2 | 386.0 | 389.0 | 391.3 | 389.8 | 386.7 | 380.7 |
| 77.5° | 313.8 | 329.6 | 343.1 | 353.6 | 362.7 | 368.7 | 374.0 | 374.7 | 373.2 | 370.2 | 364.2 |
| 80° | 296.5 | 312.3 | 326.6 | 337.1 | 346.1 | 352.1 | 355.9 | 358.2 | 356.6 | 353.6 | 347.6 |
| 82.5° | 281.4 | 295.7 | 310.0 | 320.5 | 329.6 | 337.1 | 340.1 | 342.4 | 341.6 | 337.1 | 332.6 |
| 85° | 264.9 | 281.4 | 292.7 | 304.0 | 313.0 | 320.5 | 322.8 | 325.8 | 325.0 | 321.3 | 315.3 |
| 87.5° | 248.3 | 264.9 | 278.4 | 289.7 | 298.0 | 304.0 | 307.7 | 309.2 | 308.5 | 304.7 | 298.0 |
| 90° | 234.8 | 249.8 | 263.3 | 275.4 | 282.2 | 288.9 | 292.7 | 293.4 | 293.4 | 288.9 | 283.7 |
| 92.5° | 222.0 | 236.3 | 249.8 | 261.1 | 269.4 | 275.4 | 278.4 | 279.9 | 279.1 | 275.4 | 269.4 |
| 95° | 207.7 | 223.5 | 236.3 | 247.5 | 255.8 | 261.8 | 264.9 | 266.4 | 265.6 | 261.8 | 255.8 |
| 97.5° | 195.6 | 209.9 | 222.7 | 233.3 | 241.5 | 247.5 | 250.6 | 252.1 | 252.1 | 248.3 | 242.3 |
| 100° | 183.6 | 197.9 | 209.9 | 220.5 | 228.0 | 234.0 | 237.0 | 237.8 | 237.0 | 234.0 | 228.0 |
| 102.5° | 171.6 | 185.1 | 197.1 | 206.9 | 215.2 | 220.5 | 223.5 | 224.2 | 224.2 | 220.5 | 214.4 |
| 105° | 159.5 | 173.1 | 184.3 | 194.9 | 201.6 | 206.9 | 209.2 | 211.4 | 210.7 | 207.7 | 201.6 |
| 107.5° | 148.2 | 161.8 | 172.3 | 182.1 | 188.9 | 194.1 | 196.4 | 198.6 | 197.9 | 194.9 | 188.9 |
| 110° | 137.7 | 150.5 | 160.3 | 170.0 | 176.1 | 181.3 | 185.1 | 185.8 | 184.3 | 181.3 | 176.1 |



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 127.9 | 139.2 | 149.0 | 158.0 | 164.8 | 168.5 | 171.6 | 173.1 | 171.6 | 168.5 | 164.8 |
| 115° | 117.4 | 128.7 | 138.4 | 146.7 | 152.7 | 157.3 | 159.5 | 161.0 | 159.5 | 156.5 | 152.7 |
| 117.5° | 107.6 | 118.1 | 127.9 | 136.2 | 141.5 | 145.2 | 147.5 | 149.0 | 147.5 | 145.2 | 141.5 |
| 120° | 99.3 | 108.3 | 117.4 | 124.9 | 130.9 | 133.9 | 136.2 | 137.7 | 136.9 | 133.9 | 130.2 |
| 122.5° | 89.5 | 99.3 | 107.6 | 115.1 | 120.4 | 123.4 | 124.9 | 126.4 | 125.7 | 123.4 | 119.6 |
| 125° | 81.3 | 89.5 | 97.8 | 104.6 | 109.9 | 112.9 | 114.4 | 115.9 | 115.1 | 112.9 | 108.3 |
| 127.5° | 72.2 | 81.3 | 88.0 | 94.8 | 98.6 | 103.1 | 103.8 | 105.3 | 104.6 | 102.3 | 98.6 |
| 130° | 65.5 | 72.2 | 79.0 | 85.0 | 89.5 | 92.5 | 94.1 | 94.8 | 93.3 | 91.8 | 88.0 |
| 132.5° | 57.2 | 64.7 | 70.7 | 76.0 | 79.0 | 82.0 | 83.5 | 84.3 | 84.3 | 82.0 | 79.0 |
| 135° | 51.2 | 56.4 | 61.7 | 67.0 | 70.0 | 73.0 | 74.5 | 75.2 | 74.5 | 73.0 | 70.0 |
| 137.5° | 45.9 | 50.4 | 54.2 | 58.7 | 62.5 | 64.0 | 65.5 | 65.5 | 64.7 | 64.0 | 61.7 |
| 140° | 39.9 | 45.1 | 48.9 | 51.9 | 54.9 | 55.7 | 57.2 | 57.2 | 56.4 | 55.7 | 54.2 |
| 142.5° | 33.9 | 38.4 | 42.1 | 45.9 | 48.2 | 49.7 | 50.4 | 51.2 | 50.4 | 49.7 | 47.4 |
| 145° | 27.1 | 32.4 | 36.1 | 38.4 | 41.4 | 42.1 | 42.9 | 43.6 | 42.9 | 42.1 | 39.9 |
| 147.5° | 21.1 | 25.6 | 29.3 | 32.4 | 34.6 | 35.4 | 36.1 | 36.9 | 36.1 | 34.6 | 33.9 |
| 150° | 15.0 | 18.8 | 23.3 | 26.3 | 27.8 | 29.3 | 29.3 | 29.3 | 30.1 | 28.6 | 27.1 |
| 152.5° | 12.0 | 13.5 | 16.6 | 19.6 | 21.8 | 22.6 | 23.3 | 23.3 | 22.6 | 22.6 | 21.1 |
| 155° | 8.3 | 9.8 | 12.0 | 14.3 | 16.6 | 17.3 | 18.1 | 18.1 | 17.3 | 17.3 | 16.6 |
| 157.5° | 5.3 | 6.8 | 8.3 | 9.8 | 12.0 | 12.8 | 13.5 | 13.5 | 13.5 | 12.8 | 12.0 |
| 160° | 3.0 | 3.8 | 4.5 | 6.0 | 7.5 | 8.3 | 9.0 | 9.0 | 9.0 | 9.0 | 8.3 |
| 162.5° | 2.3 | 2.3 | 2.3 | 3.0 | 3.8 | 4.5 | 5.3 | 5.3 | 5.3 | 5.3 | 4.5 |
| 165° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 2.3 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| 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: 2SNLED-LD5-39HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 |
| 2.5° | 709.5 | 709.5 | 710.3 | 708.8 | 704.3 | 705.0 | 705.0 | 708.0 | 709.5 | 710.3 | 714.1 |
| 5° | 708.0 | 708.0 | 709.5 | 707.3 | 703.5 | 703.5 | 703.5 | 706.5 | 707.3 | 708.8 | 711.8 |
| 7.5° | 705.8 | 705.8 | 706.5 | 704.3 | 699.8 | 699.8 | 699.0 | 702.0 | 703.5 | 704.3 | 707.3 |
| 10° | 702.0 | 702.0 | 702.8 | 700.5 | 695.2 | 695.2 | 694.5 | 696.7 | 697.5 | 699.0 | 701.3 |
| 12.5° | 696.7 | 696.7 | 696.7 | 694.5 | 689.2 | 688.5 | 687.7 | 690.0 | 690.0 | 690.7 | 693.0 |
| 15° | 692.2 | 690.7 | 690.7 | 688.5 | 683.2 | 681.7 | 680.2 | 680.9 | 682.4 | 681.7 | 683.2 |
| 17.5° | 687.0 | 685.5 | 684.0 | 681.7 | 674.9 | 672.7 | 671.2 | 671.9 | 671.2 | 670.4 | 671.9 |
| 20° | 680.9 | 678.7 | 677.9 | 674.2 | 667.4 | 663.6 | 660.6 | 659.1 | 659.9 | 657.6 | 658.4 |
| 22.5° | 674.2 | 671.2 | 669.7 | 665.1 | 658.4 | 653.9 | 650.1 | 647.1 | 646.3 | 643.3 | 644.1 |
| 25° | 665.9 | 662.1 | 659.9 | 656.1 | 648.6 | 643.3 | 638.8 | 634.3 | 632.0 | 628.3 | 627.5 |
| 27.5° | 656.1 | 652.4 | 649.3 | 645.6 | 638.1 | 631.3 | 626.0 | 620.0 | 617.0 | 612.5 | 610.2 |
| 30° | 646.3 | 641.8 | 637.3 | 634.3 | 626.0 | 618.5 | 610.2 | 604.9 | 600.4 | 595.2 | 591.4 |
| 32.5° | 634.3 | 629.8 | 625.3 | 620.8 | 613.2 | 604.2 | 597.4 | 589.1 | 583.9 | 577.9 | 573.3 |
| 35° | 622.3 | 616.2 | 611.7 | 605.7 | 598.9 | 588.4 | 580.1 | 571.8 | 565.1 | 558.3 | 553.0 |
| 37.5° | 608.7 | 604.2 | 597.4 | 592.2 | 583.9 | 573.3 | 564.3 | 553.8 | 547.8 | 538.7 | 532.0 |
| 40° | 595.9 | 590.7 | 583.9 | 577.1 | 568.8 | 556.8 | 547.0 | 535.0 | 528.2 | 517.7 | 510.9 |
| 42.5° | 583.1 | 575.6 | 568.8 | 561.3 | 552.3 | 541.0 | 529.0 | 516.9 | 507.9 | 498.1 | 488.3 |
| 45° | 568.8 | 560.6 | 552.3 | 544.0 | 535.0 | 523.7 | 510.9 | 498.1 | 486.8 | 477.8 | 465.8 |
| 47.5° | 553.8 | 545.5 | 535.7 | 526.7 | 516.9 | 505.6 | 492.1 | 478.5 | 466.5 | 456.0 | 443.2 |
| 50° | 538.7 | 530.5 | 519.9 | 510.1 | 498.9 | 487.6 | 473.3 | 457.5 | 444.7 | 431.1 | 419.9 |
| 52.5° | 522.9 | 514.7 | 504.9 | 492.1 | 480.0 | 468.8 | 453.7 | 437.2 | 422.9 | 411.6 | 397.3 |
| 55° | 507.1 | 498.9 | 487.6 | 474.8 | 462.7 | 448.4 | 434.1 | 417.6 | 401.8 | 388.3 | 374.0 |
| 57.5° | 490.6 | 483.1 | 470.3 | 459.7 | 444.7 | 429.6 | 414.6 | 398.8 | 381.5 | 365.7 | 349.1 |
| 60° | 474.0 | 465.8 | 453.7 | 440.9 | 425.9 | 410.8 | 395.0 | 377.7 | 359.7 | 342.4 | 327.3 |
| 62.5° | 459.0 | 448.4 | 437.2 | 423.6 | 407.8 | 393.5 | 375.5 | 356.6 | 338.6 | 320.5 | 302.5 |
| 65° | 441.7 | 430.4 | 419.9 | 406.3 | 389.8 | 373.2 | 355.1 | 336.3 | 316.8 | 297.2 | 279.1 |
| 67.5° | 424.4 | 413.1 | 401.8 | 388.3 | 370.9 | 353.6 | 334.8 | 316.0 | 294.2 | 275.4 | 254.3 |
| 70° | 407.1 | 398.0 | 383.7 | 369.4 | 353.6 | 334.8 | 316.0 | 295.7 | 273.1 | 252.8 | 231.0 |
| 72.5° | 389.8 | 380.7 | 366.4 | 351.4 | 336.3 | 316.8 | 296.5 | 276.1 | 255.1 | 231.7 | 208.4 |
| 75° | 373.2 | 361.9 | 349.1 | 334.8 | 319.0 | 298.7 | 278.4 | 257.3 | 232.5 | 210.7 | 186.6 |
| 77.5° | 357.4 | 346.9 | 334.1 | 318.3 | 301.0 | 281.4 | 260.3 | 238.5 | 213.7 | 190.4 | 164.0 |
| 80° | 340.1 | 329.6 | 316.8 | 301.0 | 283.7 | 264.9 | 242.3 | 219.7 | 195.6 | 170.0 | 143.0 |
| 82.5° | 323.5 | 313.8 | 299.5 | 285.2 | 266.4 | 247.5 | 225.0 | 202.4 | 176.8 | 152.0 | 125.7 |
| 85° | 306.2 | 296.5 | 282.9 | 267.9 | 249.8 | 229.5 | 208.4 | 185.8 | 160.3 | 134.7 | 108.3 |
| 87.5° | 291.2 | 279.9 | 266.4 | 251.3 | 233.3 | 213.7 | 193.4 | 169.3 | 144.5 | 119.6 | 92.5 |
| 90° | 275.4 | 264.9 | 251.3 | 236.3 | 218.2 | 198.6 | 177.6 | 155.0 | 130.9 | 105.3 | 79.8 |
| 92.5° | 261.8 | 250.6 | 237.8 | 222.7 | 204.7 | 185.8 | 164.8 | 142.2 | 118.9 | 94.1 | 69.2 |
| 95° | 248.3 | 237.0 | 225.0 | 209.9 | 191.9 | 173.1 | 152.0 | 130.2 | 107.6 | 83.5 | 60.2 |
| 97.5° | 233.3 | 223.5 | 211.4 | 197.1 | 179.1 | 161.0 | 140.7 | 119.6 | 97.8 | 74.5 | 52.7 |
| 100° | 221.2 | 209.9 | 198.6 | 183.6 | 167.0 | 149.7 | 129.4 | 109.1 | 88.0 | 66.2 | 45.9 |
| 102.5° | 207.7 | 197.1 | 185.8 | 171.6 | 155.0 | 137.7 | 118.9 | 99.3 | 79.8 | 59.4 | 39.9 |
| 105° | 194.9 | 185.1 | 173.1 | 159.5 | 143.7 | 127.2 | 109.1 | 91.0 | 72.2 | 52.7 | 35.4 |
| 107.5° | 182.1 | 172.3 | 161.0 | 148.2 | 133.2 | 116.6 | 100.1 | 82.0 | 64.7 | 47.4 | 31.6 |
| 110° | 169.3 | 160.3 | 149.7 | 136.9 | 122.6 | 107.6 | 91.8 | 75.2 | 57.9 | 42.1 | 27.8 |



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 112.5° | 158.0 | 149.0 | 138.4 | 126.4 | 112.9 | 98.6 | 83.5 | 67.7 | 51.9 | 37.6 | 24.1 |
| 115° | 146.7 | 138.4 | 127.9 | 117.4 | 103.8 | 90.3 | 76.0 | 60.9 | 46.7 | 33.9 | 21.1 |
| 117.5° | 135.4 | 127.2 | 117.4 | 106.8 | 94.8 | 82.0 | 68.5 | 54.2 | 42.1 | 30.1 | 18.8 |
| 120° | 124.2 | 116.6 | 107.6 | 97.8 | 87.3 | 74.5 | 60.9 | 48.9 | 37.6 | 26.3 | 16.6 |
| 122.5° | 113.6 | 106.8 | 98.6 | 89.5 | 78.3 | 66.2 | 54.9 | 44.4 | 33.9 | 23.3 | 13.5 |
| 125° | 103.8 | 97.1 | 89.5 | 80.5 | 70.0 | 59.4 | 49.7 | 39.9 | 29.3 | 20.3 | 11.3 |
| 127.5° | 94.1 | 87.3 | 79.8 | 71.5 | 63.2 | 53.4 | 44.4 | 35.4 | 26.3 | 18.1 | 9.8 |
| 130° | 84.3 | 78.3 | 71.5 | 64.7 | 56.4 | 47.4 | 39.9 | 30.8 | 22.6 | 14.3 | 8.3 |
| 132.5° | 74.5 | 70.0 | 64.0 | 57.2 | 49.7 | 42.9 | 34.6 | 27.1 | 19.6 | 12.8 | 7.5 |
| 135° | 66.2 | 61.7 | 56.4 | 50.4 | 44.4 | 37.6 | 30.1 | 23.3 | 16.6 | 10.5 | 6.0 |
| 137.5° | 58.7 | 54.9 | 49.7 | 44.4 | 39.1 | 32.4 | 26.3 | 19.6 | 13.5 | 9.0 | 4.5 |
| 140° | 51.9 | 48.2 | 43.6 | 38.4 | 33.9 | 27.8 | 21.8 | 15.8 | 12.0 | 7.5 | 3.8 |
| 142.5° | 45.1 | 41.4 | 37.6 | 33.1 | 28.6 | 23.3 | 18.1 | 13.5 | 9.8 | 6.0 | 3.8 |
| 145° | 38.4 | 35.4 | 31.6 | 27.8 | 23.3 | 18.8 | 15.0 | 11.3 | 7.5 | 4.5 | 3.0 |
| 147.5° | 31.6 | 29.3 | 25.6 | 22.6 | 18.8 | 15.0 | 12.0 | 9.0 | 6.0 | 3.8 | 2.3 |
| 150° | 25.6 | 23.3 | 20.3 | 17.3 | 15.0 | 12.0 | 9.8 | 6.8 | 4.5 | 3.8 | 2.3 |
| 152.5° | 19.6 | 18.1 | 15.8 | 14.3 | 12.0 | 9.0 | 6.8 | 5.3 | 3.8 | 3.0 | 1.5 |
| 155° | 15.8 | 14.3 | 12.8 | 10.5 | 9.0 | 6.8 | 5.3 | 3.8 | 3.0 | 2.3 | 1.5 |
| 157.5° | 11.3 | 10.5 | 9.0 | 7.5 | 6.0 | 4.5 | 3.8 | 3.8 | 2.3 | 1.5 | 0.8 |
| 160° | 7.5 | 6.8 | 6.0 | 4.5 | 3.8 | 3.8 | 3.0 | 2.3 | 1.5 | 1.5 | 0.8 |
| 162.5° | 4.5 | 3.8 | 3.8 | 3.8 | 3.0 | 3.0 | 2.3 | 1.5 | 1.5 | 0.8 | 0.8 |
| 165° | 3.0 | 3.0 | 3.0 | 2.3 | 2.3 | 2.3 | 1.5 | 0.8 | 0.8 | 0.8 | 0.8 |
| 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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 |
| 2.5° | 714.1 | 711.8 | 714.8 | 720.1 | 720.8 | 720.1 | 718.6 | 720.8 | 723.8 | 723.1 | 717.8 |
| 5° | 712.5 | 709.5 | 712.5 | 717.8 | 717.8 | 717.1 | 716.3 | 718.6 | 721.6 | 720.8 | 716.3 |
| 7.5° | 708.0 | 705.0 | 708.0 | 712.5 | 713.3 | 711.8 | 711.8 | 714.1 | 717.1 | 716.3 | 712.5 |
| 10° | 702.0 | 699.0 | 700.5 | 705.8 | 707.3 | 705.8 | 705.8 | 708.0 | 711.8 | 711.0 | 706.5 |
| 12.5° | 693.0 | 690.7 | 692.2 | 696.7 | 698.3 | 697.5 | 696.7 | 699.8 | 703.5 | 703.5 | 699.0 |
| 15° | 683.2 | 680.2 | 681.7 | 687.0 | 687.7 | 686.2 | 687.0 | 689.2 | 693.7 | 693.7 | 690.0 |
| 17.5° | 671.9 | 668.2 | 670.4 | 674.2 | 674.9 | 674.9 | 674.9 | 677.9 | 683.2 | 682.4 | 679.4 |
| 20° | 659.1 | 653.9 | 655.4 | 659.1 | 660.6 | 660.6 | 660.6 | 665.9 | 669.7 | 669.7 | 666.6 |
| 22.5° | 644.1 | 640.3 | 640.3 | 644.1 | 646.3 | 645.6 | 645.6 | 650.1 | 655.4 | 654.6 | 654.6 |
| 25° | 626.8 | 623.8 | 622.3 | 626.8 | 627.5 | 628.3 | 629.8 | 634.3 | 640.3 | 640.3 | 641.1 |
| 27.5° | 608.7 | 605.7 | 604.9 | 608.7 | 609.5 | 610.2 | 611.7 | 617.0 | 623.0 | 623.8 | 625.3 |
| 30° | 591.4 | 586.9 | 585.4 | 588.4 | 589.9 | 590.7 | 590.7 | 598.9 | 604.2 | 606.5 | 609.5 |
| 32.5° | 571.1 | 566.6 | 562.8 | 568.1 | 568.8 | 570.3 | 571.1 | 579.4 | 585.4 | 589.1 | 593.7 |
| 35° | 550.8 | 543.3 | 541.7 | 545.5 | 547.0 | 547.8 | 549.3 | 558.3 | 566.6 | 569.6 | 575.6 |
| 37.5° | 528.2 | 522.9 | 518.4 | 522.2 | 523.7 | 524.4 | 529.0 | 537.2 | 545.5 | 550.0 | 556.0 |
| 40° | 507.1 | 500.4 | 496.6 | 498.9 | 500.4 | 501.1 | 506.4 | 515.4 | 525.2 | 530.5 | 538.0 |
| 42.5° | 483.8 | 474.8 | 471.8 | 474.0 | 474.8 | 477.0 | 481.6 | 493.6 | 503.4 | 510.9 | 516.9 |
| 45° | 460.5 | 453.7 | 446.9 | 449.2 | 450.0 | 451.5 | 458.2 | 471.0 | 481.6 | 490.6 | 497.4 |
| 47.5° | 436.4 | 428.1 | 421.4 | 422.9 | 425.9 | 426.6 | 434.1 | 449.2 | 459.0 | 468.8 | 477.8 |
| 50° | 412.3 | 401.0 | 395.8 | 395.8 | 397.3 | 401.0 | 410.8 | 425.9 | 436.4 | 447.7 | 457.5 |
| 52.5° | 387.5 | 377.0 | 370.9 | 371.7 | 373.2 | 377.7 | 386.7 | 401.8 | 413.8 | 425.9 | 437.9 |
| 55° | 362.7 | 351.4 | 345.4 | 343.9 | 345.4 | 351.4 | 361.9 | 377.7 | 389.8 | 404.1 | 416.8 |
| 57.5° | 337.8 | 324.3 | 319.0 | 316.8 | 318.3 | 325.8 | 336.3 | 352.9 | 367.9 | 381.5 | 396.5 |
| 60° | 310.8 | 300.2 | 291.2 | 285.9 | 289.7 | 299.5 | 310.8 | 328.1 | 343.9 | 358.9 | 375.5 |
| 62.5° | 287.4 | 273.9 | 264.1 | 258.8 | 262.6 | 270.9 | 286.7 | 303.2 | 320.5 | 337.8 | 354.4 |
| 65° | 261.1 | 247.5 | 236.3 | 231.0 | 234.8 | 244.5 | 260.3 | 278.4 | 297.2 | 314.5 | 334.1 |
| 67.5° | 235.5 | 221.2 | 207.7 | 202.4 | 206.9 | 217.5 | 234.8 | 255.1 | 275.4 | 293.4 | 314.5 |
| 70° | 210.7 | 194.9 | 180.6 | 176.8 | 179.8 | 194.1 | 210.7 | 231.0 | 252.1 | 273.1 | 295.0 |
| 72.5° | 188.1 | 168.5 | 153.5 | 149.0 | 152.7 | 168.5 | 187.4 | 208.4 | 231.0 | 253.6 | 276.9 |
| 75° | 161.8 | 143.7 | 127.2 | 121.9 | 126.4 | 140.7 | 164.0 | 186.6 | 210.7 | 234.8 | 256.6 |
| 77.5° | 140.7 | 119.6 | 102.3 | 94.1 | 101.6 | 119.6 | 142.2 | 166.3 | 191.1 | 215.9 | 240.8 |
| 80° | 118.9 | 97.1 | 78.3 | 69.2 | 77.5 | 97.1 | 119.6 | 146.0 | 173.8 | 198.6 | 221.2 |
| 82.5° | 99.3 | 76.0 | 56.4 | 46.7 | 55.7 | 77.5 | 102.3 | 128.7 | 155.8 | 180.6 | 206.9 |
| 85° | 81.3 | 57.2 | 36.9 | 26.3 | 39.1 | 58.7 | 85.0 | 112.1 | 140.0 | 165.5 | 191.1 |
| 87.5° | 66.2 | 42.9 | 22.6 | 11.3 | 24.1 | 45.9 | 70.7 | 97.8 | 125.7 | 151.2 | 175.3 |
| 90° | 54.2 | 30.8 | 12.0 | 1.5 | 14.3 | 34.6 | 58.7 | 85.0 | 111.4 | 137.7 | 161.8 |
| 92.5° | 44.4 | 23.3 | 6.8 | 0.8 | 9.0 | 27.8 | 50.4 | 75.2 | 100.8 | 126.4 | 149.7 |
| 95° | 36.9 | 18.1 | 4.5 | 0.8 | 6.8 | 21.8 | 42.9 | 67.0 | 91.0 | 115.9 | 139.2 |
| 97.5° | 31.6 | 15.0 | 3.8 | 0.8 | 5.3 | 18.8 | 36.9 | 59.4 | 82.8 | 106.1 | 128.7 |
| 100° | 27.1 | 12.0 | 3.0 | 0.8 | 4.5 | 15.8 | 32.4 | 52.7 | 74.5 | 97.1 | 118.9 |
| 102.5° | 23.3 | 9.8 | 2.3 | 0.8 | 3.8 | 13.5 | 28.6 | 47.4 | 67.0 | 88.8 | 109.9 |
| 105° | 20.3 | 8.3 | 2.3 | 0.8 | 3.0 | 12.0 | 25.6 | 42.1 | 61.7 | 81.3 | 101.6 |
| 107.5° | 17.3 | 6.8 | 1.5 | 0.8 | 2.3 | 9.8 | 22.6 | 38.4 | 55.7 | 74.5 | 93.3 |
| 110° | 15.0 | 6.0 | 1.5 | 0.8 | 2.3 | 9.0 | 19.6 | 34.6 | 50.4 | 67.7 | 85.8 |



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 12.8 | 4.5 | 1.5 | 0.8 | 1.5 | 7.5 | 17.3 | 30.8 | 45.9 | 61.7 | 79.0 |
| 115° | 11.3 | 3.8 | 0.8 | 0.8 | 1.5 | 6.8 | 15.8 | 27.8 | 41.4 | 56.4 | 72.2 |
| 117.5° | 9.0 | 3.0 | 0.8 | 0.8 | 0.8 | 5.3 | 13.5 | 24.8 | 37.6 | 51.9 | 66.2 |
| 120° | 7.5 | 3.0 | 0.8 | 0.8 | 0.8 | 4.5 | 12.0 | 21.8 | 33.9 | 46.7 | 60.2 |
| 122.5° | 6.8 | 2.3 | 0.8 | 0.8 | 0.8 | 3.8 | 10.5 | 19.6 | 30.1 | 42.1 | 54.9 |
| 125° | 6.0 | 2.3 | 0.8 | 0.8 | 0.8 | 3.0 | 9.0 | 17.3 | 27.1 | 37.6 | 49.7 |
| 127.5° | 4.5 | 2.3 | 0.8 | 0.8 | 0.8 | 2.3 | 8.3 | 15.0 | 24.1 | 33.9 | 44.4 |
| 130° | 3.8 | 1.5 | 0.8 | 0.8 | 0.8 | 2.3 | 6.8 | 13.5 | 21.1 | 30.1 | 39.9 |
| 132.5° | 3.0 | 1.5 | 0.8 | 0.8 | 0.8 | 1.5 | 5.3 | 10.5 | 18.1 | 26.3 | 35.4 |
| 135° | 3.0 | 1.5 | 0.8 | 0.8 | 0.8 | 1.5 | 3.8 | 9.0 | 15.0 | 22.6 | 30.1 |
| 137.5° | 3.0 | 0.8 | 0.8 | 0.8 | 0.8 | 1.5 | 3.0 | 6.8 | 12.0 | 18.1 | 24.8 |
| 140° | 2.3 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 2.3 | 5.3 | 9.8 | 15.0 | 21.1 |
| 142.5° | 2.3 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 2.3 | 3.8 | 7.5 | 12.0 | 16.6 |
| 145° | 1.5 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.5 | 3.0 | 6.0 | 9.0 | 13.5 |
| 147.5° | 1.5 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.5 | 2.3 | 4.5 | 7.5 | 10.5 |
| 150° | 1.5 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.5 | 2.3 | 3.0 | 5.3 | 8.3 |
| 152.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.5 | 1.5 | 2.3 | 3.8 | 5.3 |
| 155° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.5 | 2.3 | 3.0 | 3.8 |
| 157.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.5 | 1.5 | 2.3 | 3.0 |
| 160° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.5 | 1.5 | 2.3 |
| 162.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.5 | 1.5 |
| 165° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 |
| 2.5° | 715.6 | 710.3 | 711.8 | 711.0 | 712.5 | 714.8 | 714.8 | 714.1 | 714.1 | 712.5 | 711.0 |
| 5° | 714.1 | 708.8 | 711.0 | 710.3 | 711.8 | 714.1 | 714.1 | 713.3 | 713.3 | 711.0 | 710.3 |
| 7.5° | 709.5 | 705.8 | 707.3 | 707.3 | 708.8 | 711.0 | 711.0 | 710.3 | 710.3 | 708.0 | 707.3 |
| 10° | 705.0 | 700.5 | 702.8 | 702.8 | 704.3 | 707.3 | 707.3 | 706.5 | 706.5 | 704.3 | 703.5 |
| 12.5° | 697.5 | 693.0 | 696.7 | 697.5 | 699.0 | 702.0 | 701.3 | 701.3 | 701.3 | 699.0 | 698.3 |
| 15° | 688.5 | 685.5 | 689.2 | 690.0 | 692.2 | 696.0 | 696.0 | 696.0 | 696.0 | 693.7 | 693.0 |
| 17.5° | 678.7 | 676.4 | 680.2 | 681.7 | 684.7 | 688.5 | 688.5 | 689.2 | 690.0 | 688.5 | 687.7 |
| 20° | 667.4 | 665.9 | 669.7 | 672.7 | 677.2 | 680.9 | 682.4 | 683.2 | 684.7 | 683.2 | 682.4 |
| 22.5° | 654.6 | 654.6 | 659.9 | 662.9 | 668.2 | 671.9 | 674.2 | 676.4 | 677.9 | 676.4 | 675.7 |
| 25° | 640.3 | 642.6 | 647.8 | 653.1 | 659.1 | 662.9 | 665.1 | 668.2 | 669.7 | 668.9 | 668.2 |
| 27.5° | 626.8 | 629.8 | 636.6 | 641.8 | 647.1 | 653.1 | 655.4 | 659.1 | 660.6 | 660.6 | 659.9 |
| 30° | 611.0 | 615.5 | 623.0 | 629.0 | 635.8 | 641.8 | 644.8 | 648.6 | 650.8 | 649.3 | 650.1 |
| 32.5° | 595.9 | 603.4 | 609.5 | 616.2 | 623.8 | 629.8 | 633.5 | 638.1 | 640.3 | 639.6 | 640.3 |
| 35° | 579.4 | 586.9 | 595.2 | 601.9 | 611.0 | 617.0 | 622.3 | 626.0 | 629.0 | 628.3 | 628.3 |
| 37.5° | 561.3 | 571.1 | 579.4 | 588.4 | 596.7 | 603.4 | 608.7 | 613.2 | 616.2 | 616.2 | 616.2 |
| 40° | 544.0 | 554.5 | 562.8 | 573.3 | 583.9 | 589.9 | 595.9 | 600.4 | 603.4 | 604.2 | 604.9 |
| 42.5° | 525.2 | 536.5 | 546.3 | 557.5 | 568.1 | 575.6 | 582.4 | 587.6 | 590.7 | 592.2 | 591.4 |
| 45° | 507.9 | 518.4 | 529.7 | 542.5 | 552.3 | 559.8 | 568.1 | 574.1 | 577.1 | 577.9 | 578.6 |
| 47.5° | 488.3 | 500.4 | 513.2 | 525.9 | 535.7 | 545.5 | 553.0 | 559.1 | 562.1 | 564.3 | 564.3 |
| 50° | 469.5 | 482.3 | 496.6 | 510.1 | 520.7 | 530.5 | 538.0 | 544.8 | 548.5 | 550.0 | 550.8 |
| 52.5° | 452.2 | 464.2 | 479.3 | 492.8 | 503.4 | 513.2 | 522.9 | 530.5 | 534.2 | 535.7 | 535.7 |
| 55° | 431.1 | 446.2 | 462.7 | 475.5 | 486.8 | 498.1 | 507.9 | 515.4 | 519.2 | 521.4 | 522.9 |
| 57.5° | 411.6 | 427.4 | 444.7 | 458.2 | 471.8 | 482.3 | 491.3 | 501.1 | 504.1 | 507.1 | 507.9 |
| 60° | 392.8 | 408.6 | 425.1 | 440.2 | 453.7 | 465.0 | 475.5 | 483.8 | 489.1 | 490.6 | 492.1 |
| 62.5° | 373.2 | 389.8 | 407.1 | 422.1 | 436.4 | 450.0 | 459.7 | 467.3 | 473.3 | 475.5 | 477.0 |
| 65° | 354.4 | 371.7 | 389.0 | 404.8 | 419.9 | 433.4 | 443.2 | 450.7 | 456.7 | 460.5 | 461.2 |
| 67.5° | 334.1 | 352.9 | 370.9 | 387.5 | 402.5 | 416.8 | 426.6 | 434.1 | 440.2 | 444.7 | 445.4 |
| 70° | 315.3 | 334.8 | 352.9 | 370.9 | 386.0 | 400.3 | 410.8 | 418.3 | 425.1 | 428.1 | 429.6 |
| 72.5° | 297.2 | 317.5 | 336.3 | 354.4 | 369.4 | 383.7 | 395.0 | 402.5 | 409.3 | 413.1 | 413.8 |
| 75° | 279.9 | 300.2 | 320.5 | 337.8 | 353.6 | 367.9 | 379.2 | 387.5 | 393.5 | 397.3 | 398.8 |
| 77.5° | 262.6 | 283.7 | 304.0 | 321.3 | 337.8 | 352.1 | 361.9 | 371.7 | 377.7 | 382.2 | 382.2 |
| 80° | 245.3 | 267.1 | 288.2 | 305.5 | 322.0 | 334.8 | 346.1 | 355.9 | 361.9 | 366.4 | 366.4 |
| 82.5° | 230.2 | 251.3 | 271.6 | 288.9 | 305.5 | 319.8 | 331.1 | 340.1 | 346.9 | 349.9 | 350.6 |
| 85° | 212.9 | 236.3 | 255.1 | 273.9 | 289.7 | 303.2 | 314.5 | 324.3 | 330.3 | 333.3 | 334.8 |
| 87.5° | 198.6 | 221.2 | 241.5 | 258.1 | 273.9 | 287.4 | 300.2 | 308.5 | 314.5 | 318.3 | 319.8 |
| 90° | 185.1 | 206.9 | 227.2 | 243.8 | 260.3 | 273.1 | 285.2 | 293.4 | 300.2 | 303.2 | 304.7 |
| 92.5° | 173.1 | 194.9 | 214.4 | 231.0 | 246.8 | 261.1 | 272.4 | 280.7 | 286.7 | 289.7 | 291.9 |
| 95° | 161.8 | 182.8 | 201.6 | 219.7 | 234.8 | 247.5 | 259.6 | 267.9 | 274.6 | 276.9 | 279.1 |
| 97.5° | 150.5 | 170.8 | 189.6 | 206.9 | 222.7 | 234.8 | 246.0 | 254.3 | 259.6 | 263.3 | 265.6 |
| 100° | 140.7 | 160.3 | 178.3 | 194.9 | 209.9 | 221.2 | 233.3 | 240.8 | 246.0 | 249.1 | 252.1 |
| 102.5° | 130.2 | 149.7 | 167.0 | 182.8 | 198.6 | 209.2 | 220.5 | 228.0 | 232.5 | 237.8 | 237.8 |
| 105° | 121.1 | 139.2 | 156.5 | 171.6 | 185.1 | 197.9 | 207.7 | 215.2 | 220.5 | 224.2 | 224.2 |
| 107.5° | 111.4 | 129.4 | 146.0 | 161.8 | 174.6 | 186.6 | 195.6 | 202.4 | 208.4 | 210.7 | 212.9 |
| 110° | 103.8 | 119.6 | 136.2 | 151.2 | 163.3 | 174.6 | 183.6 | 191.1 | 196.4 | 198.6 | 200.1 |



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|--------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 94.8 | 111.4 | 126.4 | 140.7 | 152.7 | 163.3 | 172.3 | 178.3 | 183.6 | 186.6 | 187.4 |
| 115° | 87.3 | 103.1 | 116.6 | 130.2 | 143.0 | 152.0 | 160.3 | 166.3 | 171.6 | 173.8 | 175.3 |
| 117.5° | 80.5 | 94.8 | 108.3 | 119.6 | 131.7 | 141.5 | 149.7 | 155.0 | 159.5 | 162.5 | 164.0 |
| 120° | 73.7 | 87.3 | 99.3 | 110.6 | 121.9 | 130.9 | 138.4 | 143.7 | 149.0 | 151.2 | 151.2 |
| 122.5° | 67.0 | 79.8 | 91.0 | 101.6 | 112.1 | 120.4 | 128.7 | 133.2 | 137.7 | 140.0 | 140.0 |
| 125° | 60.9 | 73.0 | 83.5 | 93.3 | 103.1 | 110.6 | 117.4 | 122.6 | 127.2 | 128.7 | 128.7 |
| 127.5° | 54.9 | 66.2 | 76.0 | 85.0 | 93.3 | 100.8 | 107.6 | 112.9 | 116.6 | 118.1 | 118.1 |
| 130° | 49.7 | 59.4 | 68.5 | 77.5 | 85.8 | 91.8 | 98.6 | 103.1 | 105.3 | 107.6 | 108.3 |
| 132.5° | 44.4 | 53.4 | 61.7 | 69.2 | 77.5 | 83.5 | 88.8 | 93.3 | 95.6 | 97.8 | 98.6 |
| 135° | 39.1 | 47.4 | 54.9 | 62.5 | 69.2 | 75.2 | 79.8 | 83.5 | 86.5 | 88.0 | 88.8 |
| 137.5° | 33.1 | 42.1 | 48.9 | 54.9 | 62.5 | 67.0 | 72.2 | 74.5 | 77.5 | 79.0 | 79.0 |
| 140° | 27.8 | 34.6 | 42.1 | 48.2 | 54.2 | 58.7 | 63.2 | 67.0 | 69.2 | 70.0 | 70.0 |
| 142.5° | 22.6 | 28.6 | 34.6 | 42.1 | 47.4 | 51.2 | 55.7 | 58.7 | 60.2 | 60.9 | 61.7 |
| 145° | 18.1 | 22.6 | 27.8 | 34.6 | 40.6 | 45.1 | 47.4 | 50.4 | 51.9 | 52.7 | 53.4 |
| 147.5° | 13.5 | 18.1 | 22.6 | 27.1 | 33.1 | 37.6 | 39.9 | 42.9 | 44.4 | 45.1 | 45.1 |
| 150° | 10.5 | 13.5 | 16.6 | 21.1 | 25.6 | 30.8 | 33.9 | 36.1 | 36.9 | 37.6 | 37.6 |
| 152.5° | 7.5 | 10.5 | 12.8 | 15.8 | 18.8 | 23.3 | 27.8 | 29.3 | 30.1 | 30.8 | 30.8 |
| 155° | 5.3 | 7.5 | 9.0 | 11.3 | 13.5 | 17.3 | 21.1 | 23.3 | 24.1 | 24.8 | 24.8 |
| 157.5° | 3.8 | 5.3 | 6.0 | 8.3 | 9.8 | 11.3 | 14.3 | 18.1 | 18.8 | 18.8 | 18.8 |
| 160° | 2.3 | 3.0 | 3.8 | 5.3 | 6.0 | 7.5 | 9.0 | 11.3 | 13.5 | 13.5 | 13.5 |
| 162.5° | 1.5 | 2.3 | 2.3 | 3.0 | 3.0 | 4.5 | 5.3 | 6.0 | 8.3 | 9.0 | 9.0 |
| 165° | 0.8 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 2.3 | 2.3 | 3.8 | 4.5 | 4.5 |
| 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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 |
| 2.5° | 711.8 | 713.3 | 712.5 | 712.5 | 712.5 | 714.1 | 712.5 | 705.8 | 707.3 | 708.8 | 710.3 |
| 5° | 711.0 | 711.8 | 711.8 | 711.0 | 711.0 | 712.5 | 711.0 | 704.3 | 705.8 | 707.3 | 708.0 |
| 7.5° | 708.0 | 708.8 | 708.8 | 708.8 | 708.0 | 709.5 | 707.3 | 701.3 | 701.3 | 702.8 | 703.5 |
| 10° | 704.3 | 705.8 | 705.0 | 704.3 | 704.3 | 704.3 | 702.8 | 696.0 | 696.0 | 696.7 | 697.5 |
| 12.5° | 699.8 | 699.8 | 699.8 | 699.0 | 698.3 | 698.3 | 696.7 | 690.0 | 689.2 | 690.7 | 690.0 |
| 15° | 693.7 | 695.2 | 693.7 | 693.0 | 691.5 | 691.5 | 689.2 | 682.4 | 680.9 | 681.7 | 680.9 |
| 17.5° | 688.5 | 689.2 | 687.7 | 686.2 | 684.7 | 684.0 | 681.7 | 674.2 | 671.9 | 672.7 | 671.2 |
| 20° | 683.2 | 683.2 | 681.7 | 680.2 | 677.9 | 675.7 | 672.7 | 665.1 | 661.4 | 661.4 | 658.4 |
| 22.5° | 676.4 | 676.4 | 674.9 | 672.7 | 670.4 | 667.4 | 664.4 | 656.9 | 650.8 | 649.3 | 647.1 |
| 25° | 668.9 | 668.2 | 667.4 | 665.1 | 660.6 | 657.6 | 654.6 | 646.3 | 639.6 | 636.6 | 632.8 |
| 27.5° | 659.9 | 659.9 | 657.6 | 655.4 | 650.8 | 647.1 | 643.3 | 635.8 | 626.8 | 623.0 | 617.7 |
| 30° | 650.1 | 650.1 | 647.8 | 644.8 | 640.3 | 635.8 | 631.3 | 622.3 | 613.2 | 608.0 | 601.9 |
| 32.5° | 640.3 | 639.6 | 637.3 | 634.3 | 629.8 | 623.0 | 619.2 | 610.2 | 599.7 | 593.7 | 585.4 |
| 35° | 628.3 | 627.5 | 625.3 | 621.5 | 615.5 | 610.2 | 604.2 | 595.9 | 583.9 | 576.4 | 567.3 |
| 37.5° | 616.2 | 615.5 | 614.0 | 608.7 | 602.7 | 596.7 | 589.1 | 580.9 | 569.6 | 559.8 | 550.8 |
| 40° | 604.2 | 603.4 | 600.4 | 596.7 | 589.1 | 581.6 | 574.1 | 565.8 | 553.8 | 542.5 | 532.7 |
| 42.5° | 591.4 | 590.7 | 586.9 | 582.4 | 574.1 | 566.6 | 557.5 | 548.5 | 536.5 | 522.9 | 513.2 |
| 45° | 578.6 | 577.1 | 573.3 | 568.1 | 559.1 | 550.8 | 541.7 | 531.2 | 519.2 | 506.4 | 493.6 |
| 47.5° | 565.1 | 562.8 | 559.1 | 551.5 | 544.0 | 535.0 | 524.4 | 513.2 | 501.1 | 486.8 | 473.3 |
| 50° | 550.0 | 548.5 | 544.0 | 537.2 | 528.2 | 519.2 | 507.1 | 495.8 | 481.6 | 468.0 | 451.5 |
| 52.5° | 535.7 | 532.7 | 529.0 | 521.4 | 512.4 | 502.6 | 489.8 | 476.3 | 462.0 | 449.2 | 431.9 |
| 55° | 520.7 | 519.2 | 513.9 | 507.9 | 496.6 | 485.3 | 473.3 | 459.0 | 443.2 | 428.1 | 411.6 |
| 57.5° | 506.4 | 503.4 | 498.9 | 490.6 | 480.8 | 469.5 | 456.7 | 441.7 | 424.4 | 408.6 | 390.5 |
| 60° | 492.1 | 487.6 | 482.3 | 474.8 | 464.2 | 452.2 | 438.7 | 422.9 | 405.6 | 388.3 | 369.4 |
| 62.5° | 476.3 | 472.5 | 466.5 | 459.0 | 448.4 | 435.7 | 421.4 | 404.8 | 388.3 | 370.2 | 349.9 |
| 65° | 460.5 | 456.7 | 450.7 | 443.2 | 432.6 | 418.3 | 403.3 | 386.7 | 367.9 | 350.6 | 328.8 |
| 67.5° | 444.7 | 440.9 | 434.1 | 425.9 | 415.3 | 401.8 | 386.0 | 368.7 | 349.9 | 331.1 | 308.5 |
| 70° | 428.9 | 424.4 | 418.3 | 409.3 | 398.8 | 384.5 | 368.7 | 350.6 | 331.8 | 311.5 | 288.9 |
| 72.5° | 413.1 | 409.3 | 401.8 | 393.5 | 382.2 | 367.9 | 352.1 | 334.1 | 314.5 | 293.4 | 270.9 |
| 75° | 397.3 | 392.8 | 387.5 | 377.7 | 365.7 | 352.1 | 335.6 | 317.5 | 296.5 | 276.1 | 252.8 |
| 77.5° | 381.5 | 377.7 | 370.9 | 361.2 | 349.9 | 335.6 | 319.0 | 301.0 | 279.9 | 258.8 | 234.0 |
| 80° | 365.7 | 361.2 | 355.9 | 346.9 | 334.1 | 319.8 | 302.5 | 284.4 | 263.3 | 241.5 | 216.7 |
| 82.5° | 349.9 | 345.4 | 339.3 | 330.3 | 318.3 | 304.0 | 287.4 | 267.9 | 246.8 | 224.2 | 200.9 |
| 85° | 334.1 | 330.3 | 323.5 | 314.5 | 301.7 | 287.4 | 270.9 | 253.6 | 231.0 | 208.4 | 185.1 |
| 87.5° | 318.3 | 314.5 | 307.7 | 298.7 | 286.7 | 272.4 | 255.8 | 237.8 | 215.9 | 194.9 | 169.3 |
| 90° | 303.2 | 300.2 | 293.4 | 284.4 | 272.4 | 258.1 | 243.0 | 223.5 | 202.4 | 181.3 | 157.3 |
| 92.5° | 289.7 | 286.7 | 280.7 | 271.6 | 261.1 | 245.3 | 230.2 | 211.4 | 190.4 | 168.5 | 145.2 |
| 95° | 277.6 | 273.9 | 267.9 | 259.6 | 246.8 | 233.3 | 218.2 | 199.4 | 179.1 | 157.3 | 134.7 |
| 97.5° | 264.1 | 260.3 | 254.3 | 245.3 | 234.8 | 220.5 | 205.4 | 187.4 | 167.0 | 146.7 | 124.2 |
| 100° | 250.6 | 246.8 | 240.0 | 232.5 | 222.0 | 207.7 | 193.4 | 175.3 | 156.5 | 136.9 | 115.1 |
| 102.5° | 237.0 | 233.3 | 227.2 | 219.7 | 209.2 | 196.4 | 182.1 | 164.8 | 146.0 | 126.4 | 106.1 |
| 105° | 224.2 | 220.5 | 214.4 | 206.9 | 197.1 | 184.3 | 169.3 | 154.2 | 136.2 | 117.4 | 97.8 |
| 107.5° | 211.4 | 207.7 | 202.4 | 194.9 | 185.1 | 173.1 | 158.8 | 143.0 | 126.4 | 108.3 | 89.5 |
| 110° | 198.6 | 195.6 | 189.6 | 182.8 | 173.1 | 161.0 | 148.2 | 133.2 | 116.6 | 100.1 | 82.0 |



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 112.5° | 186.6 | 183.6 | 177.6 | 170.0 | 161.8 | 150.5 | 137.7 | 123.4 | 107.6 | 91.8 | 74.5 |
| 115° | 174.6 | 170.8 | 165.5 | 158.8 | 150.5 | 140.0 | 127.9 | 115.1 | 99.3 | 84.3 | 68.5 |
| 117.5° | 162.5 | 159.5 | 154.2 | 147.5 | 140.0 | 129.4 | 118.1 | 106.1 | 91.0 | 76.7 | 62.5 |
| 120° | 150.5 | 148.2 | 143.0 | 136.9 | 129.4 | 119.6 | 109.1 | 97.1 | 83.5 | 70.0 | 56.4 |
| 122.5° | 139.2 | 136.9 | 131.7 | 126.4 | 118.9 | 109.9 | 100.1 | 88.8 | 76.7 | 64.0 | 51.9 |
| 125° | 128.7 | 125.7 | 121.1 | 115.9 | 109.1 | 100.8 | 91.0 | 80.5 | 69.2 | 57.9 | 46.7 |
| 127.5° | 117.4 | 115.1 | 112.1 | 106.1 | 99.3 | 91.8 | 82.8 | 73.7 | 63.2 | 52.7 | 42.1 |
| 130° | 108.3 | 105.3 | 101.6 | 97.1 | 91.0 | 83.5 | 75.2 | 66.2 | 57.2 | 47.4 | 36.9 |
| 132.5° | 97.8 | 94.8 | 91.8 | 87.3 | 82.0 | 75.2 | 67.7 | 59.4 | 51.2 | 42.1 | 33.1 |
| 135° | 88.0 | 85.8 | 82.8 | 78.3 | 73.0 | 67.7 | 60.2 | 52.7 | 45.1 | 36.9 | 29.3 |
| 137.5° | 79.0 | 76.7 | 73.7 | 70.7 | 65.5 | 60.2 | 53.4 | 46.7 | 39.9 | 32.4 | 25.6 |
| 140° | 70.0 | 68.5 | 65.5 | 62.5 | 57.9 | 52.7 | 46.7 | 40.6 | 34.6 | 27.8 | 21.8 |
| 142.5° | 60.9 | 59.4 | 57.2 | 54.2 | 50.4 | 45.9 | 40.6 | 35.4 | 29.3 | 24.1 | 18.8 |
| 145° | 52.7 | 51.9 | 49.7 | 46.7 | 43.6 | 39.1 | 34.6 | 30.1 | 24.8 | 20.3 | 15.0 |
| 147.5° | 44.4 | 43.6 | 42.1 | 39.9 | 36.9 | 33.1 | 29.3 | 24.8 | 21.1 | 16.6 | 12.0 |
| 150° | 36.9 | 36.1 | 35.4 | 32.4 | 30.8 | 27.1 | 24.1 | 20.3 | 17.3 | 12.8 | 9.8 |
| 152.5° | 30.1 | 30.1 | 28.6 | 26.3 | 24.8 | 21.8 | 19.6 | 16.6 | 13.5 | 10.5 | 7.5 |
| 155° | 24.1 | 23.3 | 22.6 | 21.1 | 19.6 | 17.3 | 15.0 | 12.8 | 10.5 | 7.5 | 5.3 |
| 157.5° | 18.8 | 18.1 | 17.3 | 15.8 | 14.3 | 13.5 | 11.3 | 9.0 | 6.8 | 5.3 | 3.8 |
| 160° | 13.5 | 12.8 | 12.0 | 11.3 | 10.5 | 9.0 | 7.5 | 6.0 | 4.5 | 3.0 | 2.3 |
| 162.5° | 9.0 | 8.3 | 8.3 | 7.5 | 6.8 | 5.3 | 4.5 | 3.8 | 3.0 | 2.3 | 1.5 |
| 165° | 4.5 | 4.5 | 3.8 | 3.8 | 3.0 | 2.3 | 2.3 | 2.3 | 1.5 | 1.5 | 0.8 |
| 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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 | 713.3 |
| 2.5° | 709.5 | 709.5 | 712.5 | 711.8 | 709.5 | 714.1 | 719.3 |
| 5° | 707.3 | 707.3 | 709.5 | 709.5 | 707.3 | 711.8 | 716.3 |
| 7.5° | 703.5 | 702.8 | 705.0 | 705.0 | 702.0 | 705.8 | 711.0 |
| 10° | 696.7 | 696.0 | 698.3 | 698.3 | 695.2 | 699.0 | 703.5 |
| 12.5° | 689.2 | 687.7 | 690.0 | 689.2 | 686.2 | 690.0 | 694.5 |
| 15° | 679.4 | 678.7 | 680.2 | 678.7 | 675.7 | 679.4 | 684.0 |
| 17.5° | 669.7 | 667.4 | 668.2 | 668.2 | 662.9 | 666.6 | 670.4 |
| 20° | 656.9 | 653.9 | 654.6 | 653.9 | 650.1 | 652.4 | 656.9 |
| 22.5° | 644.1 | 639.6 | 639.6 | 638.8 | 634.3 | 637.3 | 641.1 |
| 25° | 628.3 | 623.0 | 623.0 | 622.3 | 617.0 | 619.2 | 623.0 |
| 27.5° | 612.5 | 607.2 | 604.9 | 604.2 | 598.9 | 598.9 | 604.2 |
| 30° | 595.9 | 588.4 | 586.9 | 584.6 | 579.4 | 579.4 | 583.9 |
| 32.5° | 580.1 | 569.6 | 566.6 | 563.6 | 558.3 | 557.5 | 562.8 |
| 35° | 559.1 | 550.8 | 545.5 | 542.5 | 536.5 | 535.0 | 539.5 |
| 37.5° | 541.7 | 531.2 | 523.7 | 519.9 | 513.9 | 511.6 | 517.7 |
| 40° | 522.9 | 511.6 | 501.9 | 499.6 | 490.6 | 487.6 | 492.8 |
| 42.5° | 501.9 | 489.8 | 480.0 | 475.5 | 468.8 | 465.8 | 466.5 |
| 45° | 480.8 | 468.0 | 457.5 | 451.5 | 444.7 | 439.4 | 442.4 |
| 47.5° | 459.0 | 447.7 | 434.9 | 425.9 | 417.6 | 413.8 | 415.3 |
| 50° | 437.2 | 423.6 | 411.6 | 401.8 | 392.0 | 387.5 | 390.5 |
| 52.5° | 415.3 | 401.0 | 387.5 | 377.0 | 365.7 | 361.2 | 361.9 |
| 55° | 394.3 | 379.2 | 363.4 | 352.1 | 341.6 | 334.8 | 333.3 |
| 57.5° | 373.2 | 356.6 | 340.1 | 327.3 | 313.8 | 307.7 | 305.5 |
| 60° | 350.6 | 333.3 | 316.0 | 301.0 | 286.7 | 279.9 | 276.9 |
| 62.5° | 329.6 | 310.8 | 291.2 | 275.4 | 261.1 | 252.1 | 249.8 |
| 65° | 309.2 | 287.4 | 267.9 | 249.8 | 234.0 | 224.2 | 221.2 |
| 67.5° | 287.4 | 264.9 | 243.8 | 224.2 | 209.2 | 196.4 | 194.9 |
| 70° | 267.1 | 243.0 | 219.7 | 199.4 | 182.8 | 170.0 | 164.0 |
| 72.5° | 246.8 | 222.0 | 197.9 | 176.1 | 155.0 | 143.0 | 138.4 |
| 75° | 227.2 | 201.6 | 176.1 | 153.5 | 130.2 | 115.9 | 111.4 |
| 77.5° | 209.2 | 182.8 | 155.8 | 130.9 | 109.1 | 91.0 | 85.0 |
| 80° | 191.9 | 164.8 | 136.2 | 110.6 | 87.3 | 67.7 | 60.9 |
| 82.5° | 173.8 | 148.2 | 118.9 | 91.8 | 67.7 | 47.4 | 39.1 |
| 85° | 158.0 | 132.4 | 103.1 | 76.0 | 51.9 | 30.1 | 21.1 |
| 87.5° | 145.2 | 117.4 | 91.0 | 64.0 | 39.1 | 17.3 | 6.0 |
| 90° | 132.4 | 105.3 | 79.0 | 52.7 | 29.3 | 9.8 | 0.8 |
| 92.5° | 121.1 | 95.6 | 69.2 | 45.1 | 22.6 | 6.8 | 0.8 |
| 95° | 110.6 | 85.8 | 60.9 | 37.6 | 18.1 | 4.5 | 0.8 |
| 97.5° | 100.8 | 77.5 | 54.2 | 32.4 | 15.0 | 3.8 | 0.8 |
| 100° | 92.5 | 70.0 | 48.2 | 28.6 | 12.8 | 3.0 | 0.8 |
| 102.5° | 84.3 | 63.2 | 42.9 | 24.8 | 11.3 | 2.3 | 0.8 |
| 105° | 77.5 | 57.2 | 38.4 | 22.6 | 9.8 | 2.3 | 0.8 |
| 107.5° | 70.7 | 51.9 | 34.6 | 19.6 | 8.3 | 1.5 | 0.8 |
| 110° | 64.0 | 47.4 | 30.8 | 17.3 | 7.5 | 1.5 | 0.8 |



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|------|------|------|------|------|------|------|
| 112.5° | 58.7 | 42.9 | 27.8 | 15.8 | 6.0 | 1.5 | 0.8 |
| 115° | 53.4 | 38.4 | 24.8 | 13.5 | 5.3 | 0.8 | 0.8 |
| 117.5° | 48.2 | 34.6 | 21.8 | 12.0 | 4.5 | 0.8 | 0.8 |
| 120° | 43.6 | 30.8 | 19.6 | 10.5 | 3.8 | 0.8 | 0.8 |
| 122.5° | 39.1 | 27.8 | 17.3 | 9.0 | 3.0 | 0.8 | 0.8 |
| 125° | 35.4 | 24.8 | 15.0 | 7.5 | 2.3 | 0.8 | 0.8 |
| 127.5° | 31.6 | 21.8 | 13.5 | 6.8 | 2.3 | 0.8 | 0.8 |
| 130° | 27.8 | 19.6 | 11.3 | 5.3 | 1.5 | 0.8 | 0.8 |
| 132.5° | 24.8 | 16.6 | 9.8 | 4.5 | 1.5 | 0.8 | 0.8 |
| 135° | 21.8 | 14.3 | 8.3 | 3.0 | 1.5 | 0.8 | 0.8 |
| 137.5° | 18.8 | 12.0 | 6.8 | 2.3 | 0.8 | 0.8 | 0.8 |
| 140° | 15.8 | 10.5 | 5.3 | 2.3 | 0.8 | 0.8 | 0.8 |
| 142.5° | 13.5 | 8.3 | 3.8 | 1.5 | 0.8 | 0.8 | 0.8 |
| 145° | 10.5 | 6.8 | 3.0 | 1.5 | 0.8 | 0.8 | 0.8 |
| 147.5° | 8.3 | 5.3 | 2.3 | 1.5 | 0.8 | 0.8 | 0.8 |
| 150° | 6.0 | 3.8 | 2.3 | 0.8 | 0.8 | 0.8 | 0.8 |
| 152.5° | 4.5 | 3.0 | 1.5 | 0.8 | 0.8 | 0.8 | 0.8 |
| 155° | 3.0 | 2.3 | 1.5 | 0.8 | 0.8 | 0.8 | 0.8 |
| 157.5° | 2.3 | 1.5 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 160° | 1.5 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 162.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 165° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 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)