

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **4SNLED-LD5-16SL-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: 4SNLED-LD5-16SL-LW-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

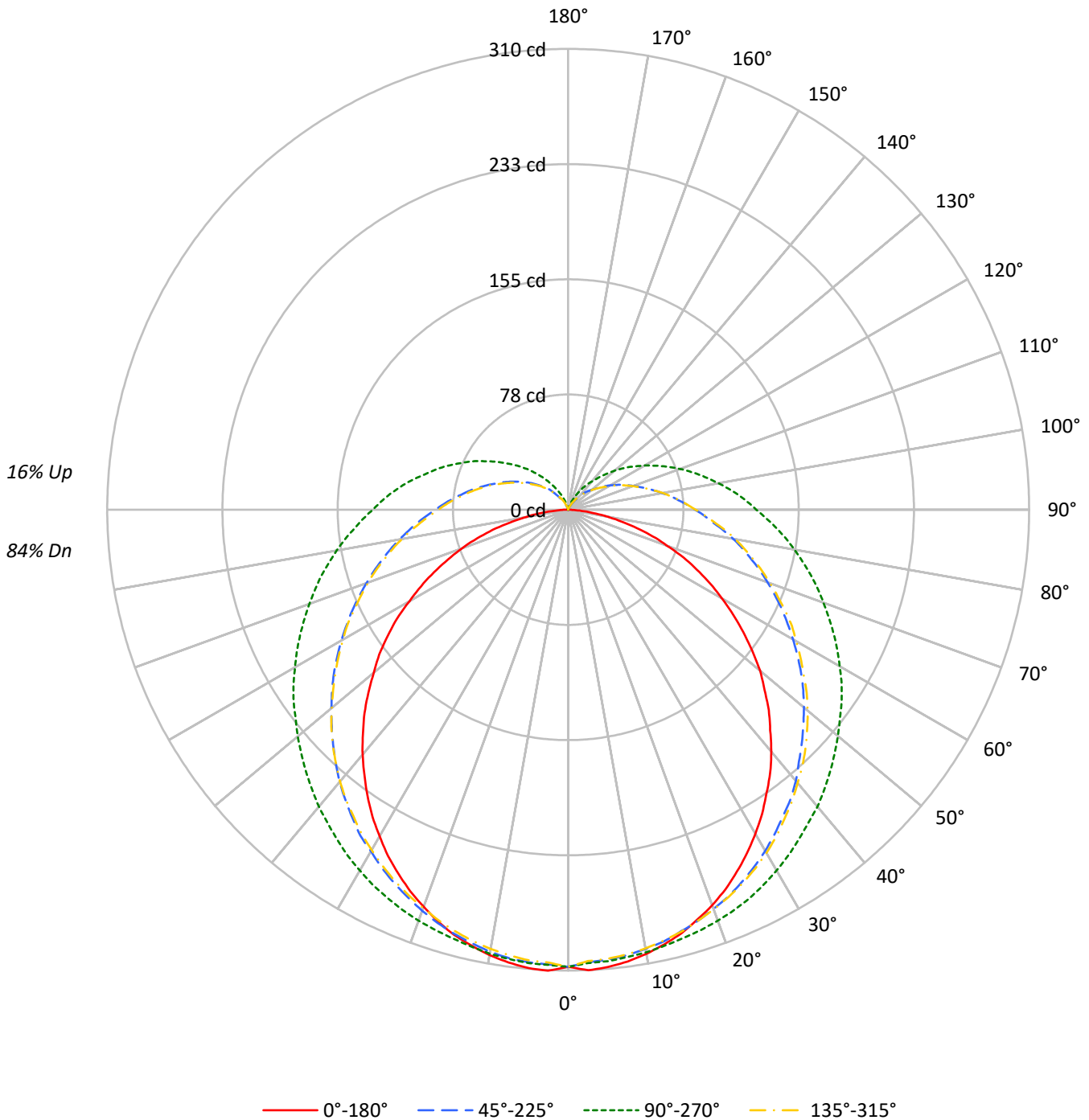
Lumens per Lamp: N/A
Luminaire Lumens: 1336.0 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 13
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#
CATALOG NUMBER: 4SNLED-LD5-16SL-LW-UNV-L930-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-16SL-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 | 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° | 2485 | 2485 | 2485 | 2485 |
| 5° | 2498 | 2395 | 2504 | 2405 |
| 10° | 2475 | 2327 | 2483 | 2334 |
| 15° | 2447 | 2268 | 2457 | 2271 |
| 20° | 2408 | 2226 | 2417 | 2226 |
| 25° | 2361 | 2188 | 2375 | 2185 |
| 30° | 2307 | 2150 | 2325 | 2150 |
| 35° | 2245 | 2113 | 2271 | 2116 |
| 40° | 2184 | 2092 | 2211 | 2092 |
| 45° | 2113 | 2070 | 2147 | 2072 |
| 50° | 2041 | 2057 | 2068 | 2062 |
| 55° | 1938 | 2059 | 1999 | 2067 |
| 60° | 1831 | 2065 | 1890 | 2077 |
| 65° | 1710 | 2086 | 1785 | 2106 |
| 70° | 1538 | 2124 | 1658 | 2154 |
| 75° | 1342 | 2194 | 1468 | 2235 |
| 80° | 1040 | 2296 | 1178 | 2350 |
| 85° | 622 | 2462 | 779 | 2529 |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-16SL-LW-UNV-L930-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 29.1 | 2.2 |
| 10°-20° | 83.7 | 6.3 |
| 20°-30° | 128.4 | 9.6 |
| 30°-40° | 158.4 | 11.9 |
| 40°-50° | 171.8 | 12.9 |
| 50°-60° | 169.3 | 12.7 |
| 60°-70° | 153.1 | 11.5 |
| 70°-80° | 127.5 | 9.5 |
| 80°-90° | 98.8 | 7.4 |
| 90°-100° | 74.9 | 5.6 |
| 100°-110° | 55.4 | 4.1 |
| 110°-120° | 38.6 | 2.9 |
| 120°-130° | 24.6 | 1.8 |
| 130°-140° | 13.8 | 1.0 |
| 140°-150° | 6.3 | 0.5 |
| 150°-160° | 2.0 | 0.1 |
| 160°-170° | 0.2 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 241.2 | 18.1 |
| 0°-40° | 399.6 | 29.9 |
| 0°-60° | 740.7 | 55.4 |
| 0°-90° | 1120.2 | 83.8 |
| 90°-120° | 168.9 | 12.6 |
| 90°-150° | 213.6 | 16.0 |
| 90°-180° | 216.0 | 16.2 |
| 0°-180° | 1336.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|-----|-----|------|------|------|------|
| 0° | 308 | 308 | 308 | 308 | 308 | |
| 5° | 309 | 305 | 310 | 306 | 309 | 29 |
| 15° | 295 | 298 | 296 | 299 | 295 | 83 |
| 25° | 269 | 288 | 270 | 288 | 269 | 124 |
| 35° | 233 | 270 | 235 | 271 | 233 | 146 |
| 45° | 191 | 249 | 194 | 249 | 191 | 147 |
| 55° | 144 | 224 | 148 | 225 | 144 | 129 |
| 65° | 95 | 197 | 100 | 199 | 95 | 95 |
| 75° | 48 | 169 | 52 | 172 | 48 | 51 |
| 85° | 9 | 140 | 11 | 144 | 9 | 11 |
| 90° | 0 | 126 | 1 | 131 | 0 | 0 |
| 95° | 0 | 115 | 0 | 120 | 0 | 0 |
| 105° | 0 | 91 | 0 | 97 | 0 | 0 |
| 115° | 0 | 69 | 0 | 76 | 0 | 0 |
| 125° | 0 | 50 | 0 | 56 | 0 | 0 |
| 135° | 0 | 32 | 0 | 38 | 0 | 0 |
| 145° | 0 | 19 | 0 | 23 | 0 | 0 |
| 155° | 0 | 8 | 0 | 11 | 0 | 0 |
| 165° | 0 | 1 | 0 | 2 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-16SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 |
| 2.5° | 310.1 | 310.1 | 309.8 | 309.1 | 309.5 | 310.4 | 309.8 | 308.2 | 307.2 | 304.6 | 305.2 |
| 5° | 308.8 | 308.8 | 308.5 | 307.8 | 308.2 | 309.5 | 308.8 | 307.5 | 306.2 | 303.9 | 304.9 |
| 7.5° | 306.5 | 306.5 | 306.2 | 305.6 | 306.2 | 307.5 | 306.9 | 305.6 | 304.6 | 302.3 | 303.3 |
| 10° | 303.3 | 303.6 | 303.3 | 302.3 | 303.6 | 304.9 | 304.6 | 303.0 | 302.0 | 300.0 | 301.0 |
| 12.5° | 299.4 | 299.7 | 299.4 | 299.1 | 299.7 | 301.7 | 301.0 | 299.7 | 299.1 | 297.5 | 298.4 |
| 15° | 294.9 | 295.2 | 294.5 | 294.5 | 295.2 | 297.1 | 297.1 | 295.8 | 295.2 | 293.6 | 295.5 |
| 17.5° | 289.0 | 289.3 | 289.0 | 289.0 | 289.7 | 291.6 | 291.9 | 291.3 | 290.6 | 290.0 | 291.9 |
| 20° | 283.2 | 282.9 | 282.9 | 282.5 | 283.8 | 286.7 | 286.4 | 286.4 | 285.8 | 285.8 | 288.0 |
| 22.5° | 276.4 | 276.4 | 276.0 | 276.0 | 277.7 | 280.3 | 280.3 | 280.9 | 280.3 | 281.6 | 283.5 |
| 25° | 268.6 | 268.9 | 268.6 | 269.2 | 270.5 | 273.4 | 273.8 | 274.7 | 275.1 | 276.4 | 278.6 |
| 27.5° | 260.5 | 260.8 | 260.5 | 261.1 | 263.4 | 265.7 | 267.3 | 268.6 | 268.9 | 270.9 | 273.8 |
| 30° | 251.7 | 251.7 | 252.0 | 252.7 | 255.3 | 258.9 | 260.1 | 261.8 | 261.8 | 265.0 | 267.9 |
| 32.5° | 242.6 | 242.6 | 242.6 | 243.9 | 246.8 | 251.1 | 252.7 | 254.6 | 255.3 | 258.5 | 261.8 |
| 35° | 232.6 | 232.9 | 232.9 | 233.9 | 237.8 | 242.0 | 244.3 | 246.5 | 247.8 | 251.7 | 255.0 |
| 37.5° | 223.2 | 223.8 | 222.8 | 224.1 | 229.7 | 233.2 | 235.8 | 238.1 | 240.4 | 245.6 | 248.1 |
| 40° | 212.5 | 213.1 | 212.8 | 215.4 | 219.9 | 224.5 | 227.4 | 229.7 | 232.9 | 238.1 | 241.0 |
| 42.5° | 201.1 | 201.8 | 202.4 | 205.3 | 210.2 | 214.7 | 218.3 | 221.2 | 225.1 | 229.7 | 234.5 |
| 45° | 190.7 | 190.7 | 191.7 | 195.3 | 200.5 | 205.3 | 209.5 | 212.8 | 217.3 | 222.2 | 227.1 |
| 47.5° | 179.1 | 179.4 | 180.7 | 184.9 | 190.4 | 196.2 | 200.1 | 204.4 | 209.2 | 214.4 | 219.9 |
| 50° | 168.4 | 168.4 | 170.3 | 174.8 | 180.0 | 186.5 | 190.7 | 195.6 | 200.8 | 207.0 | 212.5 |
| 52.5° | 156.0 | 156.7 | 159.6 | 163.8 | 170.6 | 176.5 | 181.3 | 186.5 | 192.7 | 199.2 | 205.3 |
| 55° | 143.7 | 145.0 | 147.3 | 153.1 | 160.2 | 165.8 | 171.6 | 178.1 | 183.9 | 191.1 | 198.2 |
| 57.5° | 131.7 | 132.7 | 136.2 | 142.1 | 149.5 | 156.3 | 162.5 | 168.7 | 175.8 | 182.9 | 190.4 |
| 60° | 119.4 | 120.7 | 124.9 | 130.7 | 138.8 | 146.0 | 153.1 | 159.6 | 167.1 | 174.5 | 182.3 |
| 62.5° | 107.7 | 108.7 | 113.5 | 120.3 | 128.5 | 136.2 | 143.4 | 151.2 | 159.3 | 166.4 | 174.2 |
| 65° | 95.4 | 97.0 | 102.5 | 108.7 | 118.1 | 125.9 | 134.0 | 142.4 | 150.8 | 158.6 | 166.1 |
| 67.5° | 84.0 | 85.0 | 90.8 | 98.0 | 107.4 | 116.1 | 124.6 | 133.6 | 142.4 | 150.5 | 158.0 |
| 70° | 70.7 | 74.0 | 79.8 | 87.3 | 97.3 | 106.4 | 115.5 | 124.9 | 134.3 | 142.7 | 149.9 |
| 72.5° | 59.7 | 62.3 | 68.8 | 76.9 | 86.6 | 97.3 | 106.7 | 116.8 | 126.2 | 134.9 | 142.4 |
| 75° | 48.0 | 50.6 | 58.1 | 67.1 | 77.2 | 88.6 | 98.3 | 108.7 | 118.4 | 127.2 | 134.9 |
| 77.5° | 36.7 | 39.9 | 48.0 | 57.4 | 68.4 | 80.1 | 90.2 | 100.6 | 110.6 | 120.0 | 127.8 |
| 80° | 26.3 | 29.8 | 38.6 | 49.3 | 60.0 | 71.7 | 82.7 | 93.1 | 103.2 | 112.6 | 120.7 |
| 82.5° | 16.9 | 20.8 | 30.2 | 40.9 | 52.2 | 63.9 | 75.3 | 85.6 | 95.7 | 105.1 | 113.5 |
| 85° | 9.1 | 13.3 | 23.0 | 33.7 | 45.1 | 56.8 | 68.1 | 79.1 | 88.9 | 97.6 | 106.7 |
| 87.5° | 2.6 | 7.8 | 17.2 | 27.9 | 39.6 | 50.3 | 61.3 | 72.3 | 82.1 | 91.5 | 99.6 |
| 90° | 0.3 | 4.5 | 13.0 | 23.0 | 34.4 | 44.8 | 55.8 | 66.2 | 75.9 | 85.3 | 93.4 |
| 92.5° | 0.3 | 2.9 | 10.1 | 19.1 | 29.5 | 40.2 | 51.3 | 61.3 | 70.4 | 79.8 | 87.9 |
| 95° | 0.3 | 2.3 | 8.1 | 16.2 | 26.0 | 36.0 | 46.4 | 56.1 | 65.5 | 74.3 | 82.4 |
| 97.5° | 0.3 | 1.6 | 6.5 | 13.9 | 22.7 | 32.1 | 42.2 | 51.9 | 61.0 | 69.4 | 76.9 |
| 100° | 0.3 | 1.3 | 5.2 | 12.0 | 19.8 | 28.9 | 38.0 | 47.4 | 56.1 | 64.2 | 72.0 |
| 102.5° | 0.3 | 1.0 | 4.5 | 10.1 | 17.5 | 25.6 | 34.4 | 43.1 | 51.6 | 59.4 | 67.1 |
| 105° | 0.3 | 1.0 | 3.9 | 8.8 | 15.6 | 23.0 | 31.1 | 39.6 | 47.4 | 54.8 | 62.0 |
| 107.5° | 0.3 | 0.6 | 3.2 | 7.5 | 13.6 | 20.8 | 28.2 | 36.3 | 43.5 | 50.6 | 57.4 |
| 110° | 0.3 | 0.6 | 2.6 | 6.8 | 12.0 | 18.5 | 25.6 | 33.1 | 39.9 | 46.7 | 53.2 |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-16SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-----|-----|-----|-----|------|------|------|------|------|------|------|
| 112.5° | 0.3 | 0.6 | 2.3 | 5.8 | 10.4 | 16.5 | 23.0 | 29.8 | 36.3 | 43.1 | 49.0 |
| 115° | 0.3 | 0.6 | 1.9 | 5.2 | 9.7 | 14.3 | 20.8 | 26.9 | 33.4 | 39.6 | 45.1 |
| 117.5° | 0.3 | 0.6 | 1.6 | 4.2 | 8.4 | 13.0 | 18.2 | 24.3 | 30.2 | 36.0 | 41.2 |
| 120° | 0.3 | 0.6 | 1.3 | 3.9 | 7.5 | 11.7 | 16.2 | 21.7 | 27.2 | 32.8 | 38.3 |
| 122.5° | 0.3 | 0.3 | 1.3 | 3.2 | 6.5 | 10.4 | 14.9 | 19.1 | 24.3 | 29.5 | 34.4 |
| 125° | 0.3 | 0.3 | 1.3 | 2.9 | 5.5 | 9.4 | 13.3 | 17.2 | 21.7 | 26.3 | 30.5 |
| 127.5° | 0.3 | 0.3 | 1.0 | 2.3 | 4.9 | 8.1 | 11.7 | 15.9 | 19.1 | 23.4 | 27.6 |
| 130° | 0.3 | 0.3 | 1.0 | 1.9 | 4.2 | 6.8 | 10.4 | 13.9 | 17.8 | 20.8 | 24.3 |
| 132.5° | 0.3 | 0.3 | 1.0 | 1.6 | 3.2 | 5.5 | 8.8 | 12.0 | 15.6 | 18.8 | 21.7 |
| 135° | 0.3 | 0.3 | 0.6 | 1.3 | 2.6 | 4.5 | 7.1 | 10.1 | 13.6 | 16.9 | 19.8 |
| 137.5° | 0.3 | 0.3 | 0.6 | 1.3 | 1.9 | 3.9 | 5.5 | 8.1 | 11.4 | 14.3 | 17.2 |
| 140° | 0.3 | 0.3 | 0.6 | 1.0 | 1.6 | 2.9 | 4.5 | 6.5 | 9.1 | 11.7 | 14.9 |
| 142.5° | 0.3 | 0.3 | 0.3 | 1.0 | 1.3 | 2.3 | 3.6 | 5.2 | 7.1 | 9.4 | 12.0 |
| 145° | 0.3 | 0.3 | 0.3 | 1.0 | 1.3 | 1.6 | 2.9 | 4.2 | 5.5 | 7.1 | 9.4 |
| 147.5° | 0.3 | 0.3 | 0.3 | 0.6 | 1.0 | 1.3 | 2.3 | 3.2 | 4.2 | 5.5 | 6.8 |
| 150° | 0.3 | 0.3 | 0.3 | 0.6 | 1.0 | 1.3 | 1.6 | 2.3 | 3.2 | 4.5 | 5.5 |
| 152.5° | 0.3 | 0.3 | 0.3 | 0.6 | 0.6 | 1.0 | 1.3 | 1.6 | 2.3 | 3.2 | 3.9 |
| 155° | 0.3 | 0.3 | 0.3 | 0.3 | 0.6 | 1.0 | 1.3 | 1.3 | 1.6 | 2.3 | 2.9 |
| 157.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.6 | 0.6 | 1.0 | 1.0 | 1.3 | 1.3 | 1.9 |
| 160° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.6 | 0.6 | 1.0 | 1.0 | 1.0 | 1.0 |
| 162.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.6 | 0.6 | 0.6 | 1.0 | 1.0 |
| 165° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.6 | 0.6 | 0.6 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-16SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 |
| 2.5° | 305.2 | 305.6 | 306.5 | 306.5 | 305.9 | 305.9 | 305.6 | 305.2 | 305.6 | 306.2 | 306.2 |
| 5° | 304.6 | 304.9 | 305.9 | 306.2 | 305.6 | 305.2 | 305.2 | 304.9 | 305.2 | 305.9 | 305.9 |
| 7.5° | 303.3 | 303.6 | 304.6 | 304.9 | 304.3 | 304.3 | 303.9 | 303.6 | 304.3 | 304.6 | 304.6 |
| 10° | 301.3 | 301.7 | 303.0 | 303.3 | 303.0 | 302.6 | 302.6 | 302.3 | 302.6 | 303.3 | 303.3 |
| 12.5° | 298.7 | 299.4 | 301.0 | 301.0 | 301.0 | 300.7 | 300.7 | 300.4 | 300.7 | 301.3 | 301.0 |
| 15° | 295.8 | 297.1 | 298.4 | 299.1 | 299.1 | 299.1 | 298.7 | 298.4 | 299.1 | 299.4 | 299.1 |
| 17.5° | 292.6 | 294.2 | 296.2 | 296.8 | 296.8 | 297.1 | 296.8 | 296.5 | 297.1 | 297.1 | 296.8 |
| 20° | 289.3 | 291.0 | 292.9 | 293.6 | 294.2 | 294.5 | 294.5 | 294.2 | 294.5 | 294.9 | 294.5 |
| 22.5° | 285.1 | 287.1 | 289.3 | 290.3 | 291.0 | 291.6 | 291.6 | 291.6 | 291.9 | 292.3 | 291.6 |
| 25° | 280.6 | 282.9 | 285.5 | 286.4 | 287.7 | 288.0 | 288.4 | 288.4 | 288.7 | 289.0 | 288.0 |
| 27.5° | 275.7 | 278.3 | 280.9 | 282.5 | 283.5 | 284.2 | 284.2 | 284.5 | 284.8 | 285.1 | 284.2 |
| 30° | 269.9 | 273.8 | 276.0 | 277.3 | 278.6 | 279.6 | 279.9 | 280.3 | 280.6 | 280.9 | 279.9 |
| 32.5° | 264.7 | 267.9 | 270.9 | 272.5 | 274.1 | 275.4 | 275.7 | 275.7 | 276.4 | 276.4 | 275.4 |
| 35° | 258.5 | 262.4 | 265.3 | 267.0 | 268.9 | 269.9 | 270.5 | 270.5 | 271.2 | 271.2 | 270.2 |
| 37.5° | 252.4 | 256.3 | 259.5 | 261.4 | 263.7 | 265.0 | 265.3 | 265.3 | 266.0 | 266.0 | 264.7 |
| 40° | 245.9 | 250.1 | 253.7 | 255.9 | 257.9 | 259.5 | 259.8 | 260.8 | 260.8 | 260.5 | 259.2 |
| 42.5° | 239.4 | 243.3 | 247.2 | 249.8 | 252.4 | 254.0 | 254.6 | 255.0 | 255.0 | 254.6 | 253.7 |
| 45° | 232.3 | 236.8 | 240.4 | 243.6 | 246.2 | 247.8 | 248.8 | 249.1 | 249.1 | 248.5 | 247.5 |
| 47.5° | 225.4 | 230.0 | 233.6 | 237.1 | 239.7 | 241.7 | 242.6 | 243.0 | 242.6 | 242.3 | 241.3 |
| 50° | 218.3 | 223.5 | 227.1 | 230.6 | 233.2 | 234.8 | 236.5 | 236.8 | 236.5 | 236.1 | 234.2 |
| 52.5° | 210.8 | 216.4 | 220.3 | 223.8 | 226.7 | 228.7 | 230.0 | 230.3 | 230.3 | 229.7 | 228.4 |
| 55° | 203.4 | 208.2 | 213.1 | 217.0 | 220.3 | 222.2 | 223.8 | 224.5 | 223.8 | 223.2 | 221.5 |
| 57.5° | 196.6 | 201.1 | 206.0 | 210.2 | 213.4 | 216.0 | 217.3 | 218.0 | 217.3 | 216.4 | 214.7 |
| 60° | 188.5 | 193.3 | 198.8 | 202.7 | 206.3 | 208.9 | 209.5 | 210.8 | 210.2 | 209.2 | 207.6 |
| 62.5° | 180.7 | 186.5 | 191.4 | 196.2 | 199.2 | 202.1 | 203.4 | 204.0 | 203.4 | 202.4 | 200.8 |
| 65° | 172.6 | 179.1 | 183.9 | 188.8 | 192.0 | 194.9 | 196.6 | 196.9 | 196.2 | 195.3 | 193.7 |
| 67.5° | 165.1 | 171.3 | 176.5 | 181.7 | 184.6 | 187.5 | 189.1 | 189.8 | 189.1 | 187.8 | 186.2 |
| 70° | 157.6 | 163.8 | 170.0 | 173.9 | 177.4 | 180.7 | 181.7 | 182.6 | 182.0 | 180.7 | 178.7 |
| 72.5° | 150.2 | 156.7 | 162.8 | 166.7 | 170.6 | 173.5 | 174.8 | 175.8 | 175.2 | 173.9 | 171.6 |
| 75° | 142.4 | 149.2 | 155.4 | 159.6 | 163.5 | 166.4 | 167.7 | 168.7 | 168.0 | 166.7 | 164.1 |
| 77.5° | 135.3 | 142.1 | 147.9 | 152.5 | 156.3 | 158.9 | 161.2 | 161.5 | 160.9 | 159.6 | 157.0 |
| 80° | 127.8 | 134.6 | 140.8 | 145.3 | 149.2 | 151.8 | 153.4 | 154.4 | 153.8 | 152.5 | 149.9 |
| 82.5° | 121.3 | 127.5 | 133.6 | 138.2 | 142.1 | 145.3 | 146.6 | 147.6 | 147.3 | 145.3 | 143.4 |
| 85° | 114.2 | 121.3 | 126.2 | 131.0 | 134.9 | 138.2 | 139.2 | 140.5 | 140.1 | 138.5 | 135.9 |
| 87.5° | 107.0 | 114.2 | 120.0 | 124.9 | 128.5 | 131.0 | 132.7 | 133.3 | 133.0 | 131.4 | 128.5 |
| 90° | 101.2 | 107.7 | 113.5 | 118.7 | 121.6 | 124.6 | 126.2 | 126.5 | 126.5 | 124.6 | 122.3 |
| 92.5° | 95.7 | 101.9 | 107.7 | 112.6 | 116.1 | 118.7 | 120.0 | 120.7 | 120.3 | 118.7 | 116.1 |
| 95° | 89.5 | 96.3 | 101.9 | 106.7 | 110.3 | 112.9 | 114.2 | 114.8 | 114.5 | 112.9 | 110.3 |
| 97.5° | 84.3 | 90.5 | 96.0 | 100.6 | 104.1 | 106.7 | 108.0 | 108.7 | 108.7 | 107.0 | 104.4 |
| 100° | 79.1 | 85.3 | 90.5 | 95.0 | 98.3 | 100.9 | 102.2 | 102.5 | 102.2 | 100.9 | 98.3 |
| 102.5° | 74.0 | 79.8 | 85.0 | 89.2 | 92.8 | 95.0 | 96.3 | 96.7 | 96.7 | 95.0 | 92.4 |
| 105° | 68.8 | 74.6 | 79.5 | 84.0 | 86.9 | 89.2 | 90.2 | 91.1 | 90.8 | 89.5 | 86.9 |
| 107.5° | 63.9 | 69.7 | 74.3 | 78.5 | 81.4 | 83.7 | 84.7 | 85.6 | 85.3 | 84.0 | 81.4 |
| 110° | 59.4 | 64.9 | 69.1 | 73.3 | 75.9 | 78.2 | 79.8 | 80.1 | 79.5 | 78.2 | 75.9 |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-16SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 55.1 | 60.0 | 64.2 | 68.1 | 71.0 | 72.7 | 74.0 | 74.6 | 74.0 | 72.7 | 71.0 |
| 115° | 50.6 | 55.5 | 59.7 | 63.3 | 65.8 | 67.8 | 68.8 | 69.4 | 68.8 | 67.5 | 65.8 |
| 117.5° | 46.4 | 50.9 | 55.1 | 58.7 | 61.0 | 62.6 | 63.6 | 64.2 | 63.6 | 62.6 | 61.0 |
| 120° | 42.8 | 46.7 | 50.6 | 53.8 | 56.4 | 57.7 | 58.7 | 59.4 | 59.0 | 57.7 | 56.1 |
| 122.5° | 38.6 | 42.8 | 46.4 | 49.6 | 51.9 | 53.2 | 53.8 | 54.5 | 54.2 | 53.2 | 51.6 |
| 125° | 35.0 | 38.6 | 42.2 | 45.1 | 47.4 | 48.7 | 49.3 | 50.0 | 49.6 | 48.7 | 46.7 |
| 127.5° | 31.1 | 35.0 | 38.0 | 40.9 | 42.5 | 44.4 | 44.8 | 45.4 | 45.1 | 44.1 | 42.5 |
| 130° | 28.2 | 31.1 | 34.1 | 36.7 | 38.6 | 39.9 | 40.5 | 40.9 | 40.2 | 39.6 | 38.0 |
| 132.5° | 24.7 | 27.9 | 30.5 | 32.8 | 34.1 | 35.4 | 36.0 | 36.3 | 36.3 | 35.4 | 34.1 |
| 135° | 22.1 | 24.3 | 26.6 | 28.9 | 30.2 | 31.5 | 32.1 | 32.4 | 32.1 | 31.5 | 30.2 |
| 137.5° | 19.8 | 21.7 | 23.4 | 25.3 | 26.9 | 27.6 | 28.2 | 28.2 | 27.9 | 27.6 | 26.6 |
| 140° | 17.2 | 19.5 | 21.1 | 22.4 | 23.7 | 24.0 | 24.7 | 24.7 | 24.3 | 24.0 | 23.4 |
| 142.5° | 14.6 | 16.5 | 18.2 | 19.8 | 20.8 | 21.4 | 21.7 | 22.1 | 21.7 | 21.4 | 20.4 |
| 145° | 11.7 | 13.9 | 15.6 | 16.5 | 17.8 | 18.2 | 18.5 | 18.8 | 18.5 | 18.2 | 17.2 |
| 147.5° | 9.1 | 11.0 | 12.7 | 13.9 | 14.9 | 15.2 | 15.6 | 15.9 | 15.6 | 14.9 | 14.6 |
| 150° | 6.5 | 8.1 | 10.1 | 11.4 | 12.0 | 12.7 | 12.7 | 12.7 | 13.0 | 12.3 | 11.7 |
| 152.5° | 5.2 | 5.8 | 7.1 | 8.4 | 9.4 | 9.7 | 10.1 | 10.1 | 9.7 | 9.7 | 9.1 |
| 155° | 3.6 | 4.2 | 5.2 | 6.2 | 7.1 | 7.5 | 7.8 | 7.8 | 7.5 | 7.5 | 7.1 |
| 157.5° | 2.3 | 2.9 | 3.6 | 4.2 | 5.2 | 5.5 | 5.8 | 5.8 | 5.8 | 5.5 | 5.2 |
| 160° | 1.3 | 1.6 | 1.9 | 2.6 | 3.2 | 3.6 | 3.9 | 3.9 | 3.9 | 3.9 | 3.6 |
| 162.5° | 1.0 | 1.0 | 1.0 | 1.3 | 1.6 | 1.9 | 2.3 | 2.3 | 2.3 | 2.3 | 1.9 |
| 165° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 1.0 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-16SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 |
| 2.5° | 305.9 | 305.9 | 306.2 | 305.6 | 303.6 | 303.9 | 303.9 | 305.2 | 305.9 | 306.2 | 307.8 |
| 5° | 305.2 | 305.2 | 305.9 | 304.9 | 303.3 | 303.3 | 303.3 | 304.6 | 304.9 | 305.6 | 306.9 |
| 7.5° | 304.3 | 304.3 | 304.6 | 303.6 | 301.7 | 301.7 | 301.3 | 302.6 | 303.3 | 303.6 | 304.9 |
| 10° | 302.6 | 302.6 | 303.0 | 302.0 | 299.7 | 299.7 | 299.4 | 300.4 | 300.7 | 301.3 | 302.3 |
| 12.5° | 300.4 | 300.4 | 300.4 | 299.4 | 297.1 | 296.8 | 296.5 | 297.5 | 297.5 | 297.8 | 298.7 |
| 15° | 298.4 | 297.8 | 297.8 | 296.8 | 294.5 | 293.9 | 293.2 | 293.6 | 294.2 | 293.9 | 294.5 |
| 17.5° | 296.2 | 295.5 | 294.9 | 293.9 | 291.0 | 290.0 | 289.3 | 289.7 | 289.3 | 289.0 | 289.7 |
| 20° | 293.6 | 292.6 | 292.3 | 290.6 | 287.7 | 286.1 | 284.8 | 284.2 | 284.5 | 283.5 | 283.8 |
| 22.5° | 290.6 | 289.3 | 288.7 | 286.7 | 283.8 | 281.9 | 280.3 | 279.0 | 278.6 | 277.3 | 277.7 |
| 25° | 287.1 | 285.5 | 284.5 | 282.9 | 279.6 | 277.3 | 275.4 | 273.4 | 272.5 | 270.9 | 270.5 |
| 27.5° | 282.9 | 281.2 | 279.9 | 278.3 | 275.1 | 272.2 | 269.9 | 267.3 | 266.0 | 264.0 | 263.1 |
| 30° | 278.6 | 276.7 | 274.7 | 273.4 | 269.9 | 266.6 | 263.1 | 260.8 | 258.9 | 256.6 | 255.0 |
| 32.5° | 273.4 | 271.5 | 269.6 | 267.6 | 264.4 | 260.5 | 257.6 | 254.0 | 251.7 | 249.1 | 247.2 |
| 35° | 268.3 | 265.7 | 263.7 | 261.1 | 258.2 | 253.7 | 250.1 | 246.5 | 243.6 | 240.7 | 238.4 |
| 37.5° | 262.4 | 260.5 | 257.6 | 255.3 | 251.7 | 247.2 | 243.3 | 238.7 | 236.1 | 232.3 | 229.3 |
| 40° | 256.9 | 254.6 | 251.7 | 248.8 | 245.2 | 240.0 | 235.8 | 230.6 | 227.7 | 223.2 | 220.3 |
| 42.5° | 251.4 | 248.1 | 245.2 | 242.0 | 238.1 | 233.2 | 228.0 | 222.8 | 219.0 | 214.7 | 210.5 |
| 45° | 245.2 | 241.7 | 238.1 | 234.5 | 230.6 | 225.8 | 220.3 | 214.7 | 209.9 | 206.0 | 200.8 |
| 47.5° | 238.7 | 235.2 | 231.0 | 227.1 | 222.8 | 218.0 | 212.1 | 206.3 | 201.1 | 196.6 | 191.1 |
| 50° | 232.3 | 228.7 | 224.1 | 219.9 | 215.1 | 210.2 | 204.0 | 197.2 | 191.7 | 185.9 | 181.0 |
| 52.5° | 225.4 | 221.9 | 217.7 | 212.1 | 207.0 | 202.1 | 195.6 | 188.5 | 182.3 | 177.4 | 171.3 |
| 55° | 218.6 | 215.1 | 210.2 | 204.7 | 199.5 | 193.3 | 187.2 | 180.0 | 173.2 | 167.4 | 161.2 |
| 57.5° | 211.5 | 208.2 | 202.7 | 198.2 | 191.7 | 185.2 | 178.7 | 171.9 | 164.5 | 157.6 | 150.5 |
| 60° | 204.4 | 200.8 | 195.6 | 190.1 | 183.6 | 177.1 | 170.3 | 162.8 | 155.1 | 147.6 | 141.1 |
| 62.5° | 197.9 | 193.3 | 188.5 | 182.6 | 175.8 | 169.6 | 161.9 | 153.8 | 146.0 | 138.2 | 130.4 |
| 65° | 190.4 | 185.5 | 181.0 | 175.2 | 168.0 | 160.9 | 153.1 | 145.0 | 136.6 | 128.1 | 120.3 |
| 67.5° | 182.9 | 178.1 | 173.2 | 167.4 | 159.9 | 152.5 | 144.3 | 136.2 | 126.8 | 118.7 | 109.6 |
| 70° | 175.5 | 171.6 | 165.4 | 159.3 | 152.5 | 144.3 | 136.2 | 127.5 | 117.7 | 109.0 | 99.6 |
| 72.5° | 168.0 | 164.1 | 158.0 | 151.5 | 145.0 | 136.6 | 127.8 | 119.0 | 110.0 | 99.9 | 89.9 |
| 75° | 160.9 | 156.0 | 150.5 | 144.3 | 137.5 | 128.8 | 120.0 | 110.9 | 100.2 | 90.8 | 80.4 |
| 77.5° | 154.1 | 149.5 | 144.0 | 137.2 | 129.8 | 121.3 | 112.2 | 102.8 | 92.1 | 82.1 | 70.7 |
| 80° | 146.6 | 142.1 | 136.6 | 129.8 | 122.3 | 114.2 | 104.4 | 94.7 | 84.3 | 73.3 | 61.6 |
| 82.5° | 139.5 | 135.3 | 129.1 | 122.9 | 114.8 | 106.7 | 97.0 | 87.3 | 76.2 | 65.5 | 54.2 |
| 85° | 132.0 | 127.8 | 122.0 | 115.5 | 107.7 | 98.9 | 89.9 | 80.1 | 69.1 | 58.1 | 46.7 |
| 87.5° | 125.5 | 120.7 | 114.8 | 108.3 | 100.6 | 92.1 | 83.4 | 73.0 | 62.3 | 51.6 | 39.9 |
| 90° | 118.7 | 114.2 | 108.3 | 101.9 | 94.1 | 85.6 | 76.6 | 66.8 | 56.4 | 45.4 | 34.4 |
| 92.5° | 112.9 | 108.0 | 102.5 | 96.0 | 88.2 | 80.1 | 71.0 | 61.3 | 51.3 | 40.5 | 29.8 |
| 95° | 107.0 | 102.2 | 97.0 | 90.5 | 82.7 | 74.6 | 65.5 | 56.1 | 46.4 | 36.0 | 26.0 |
| 97.5° | 100.6 | 96.3 | 91.1 | 85.0 | 77.2 | 69.4 | 60.7 | 51.6 | 42.2 | 32.1 | 22.7 |
| 100° | 95.4 | 90.5 | 85.6 | 79.1 | 72.0 | 64.6 | 55.8 | 47.0 | 38.0 | 28.5 | 19.8 |
| 102.5° | 89.5 | 85.0 | 80.1 | 74.0 | 66.8 | 59.4 | 51.3 | 42.8 | 34.4 | 25.6 | 17.2 |
| 105° | 84.0 | 79.8 | 74.6 | 68.8 | 62.0 | 54.8 | 47.0 | 39.2 | 31.1 | 22.7 | 15.2 |
| 107.5° | 78.5 | 74.3 | 69.4 | 63.9 | 57.4 | 50.3 | 43.1 | 35.4 | 27.9 | 20.4 | 13.6 |
| 110° | 73.0 | 69.1 | 64.6 | 59.0 | 52.9 | 46.4 | 39.6 | 32.4 | 25.0 | 18.2 | 12.0 |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-16SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 68.1 | 64.2 | 59.7 | 54.5 | 48.7 | 42.5 | 36.0 | 29.2 | 22.4 | 16.2 | 10.4 |
| 115° | 63.3 | 59.7 | 55.1 | 50.6 | 44.8 | 38.9 | 32.8 | 26.3 | 20.1 | 14.6 | 9.1 |
| 117.5° | 58.4 | 54.8 | 50.6 | 46.1 | 40.9 | 35.4 | 29.5 | 23.4 | 18.2 | 13.0 | 8.1 |
| 120° | 53.5 | 50.3 | 46.4 | 42.2 | 37.6 | 32.1 | 26.3 | 21.1 | 16.2 | 11.4 | 7.1 |
| 122.5° | 49.0 | 46.1 | 42.5 | 38.6 | 33.7 | 28.5 | 23.7 | 19.1 | 14.6 | 10.1 | 5.8 |
| 125° | 44.8 | 41.8 | 38.6 | 34.7 | 30.2 | 25.6 | 21.4 | 17.2 | 12.7 | 8.8 | 4.9 |
| 127.5° | 40.5 | 37.6 | 34.4 | 30.8 | 27.2 | 23.0 | 19.1 | 15.2 | 11.4 | 7.8 | 4.2 |
| 130° | 36.3 | 33.7 | 30.8 | 27.9 | 24.3 | 20.4 | 17.2 | 13.3 | 9.7 | 6.2 | 3.6 |
| 132.5° | 32.1 | 30.2 | 27.6 | 24.7 | 21.4 | 18.5 | 14.9 | 11.7 | 8.4 | 5.5 | 3.2 |
| 135° | 28.5 | 26.6 | 24.3 | 21.7 | 19.1 | 16.2 | 13.0 | 10.1 | 7.1 | 4.5 | 2.6 |
| 137.5° | 25.3 | 23.7 | 21.4 | 19.1 | 16.9 | 13.9 | 11.4 | 8.4 | 5.8 | 3.9 | 1.9 |
| 140° | 22.4 | 20.8 | 18.8 | 16.5 | 14.6 | 12.0 | 9.4 | 6.8 | 5.2 | 3.2 | 1.6 |
| 142.5° | 19.5 | 17.8 | 16.2 | 14.3 | 12.3 | 10.1 | 7.8 | 5.8 | 4.2 | 2.6 | 1.6 |
| 145° | 16.5 | 15.2 | 13.6 | 12.0 | 10.1 | 8.1 | 6.5 | 4.9 | 3.2 | 1.9 | 1.3 |
| 147.5° | 13.6 | 12.7 | 11.0 | 9.7 | 8.1 | 6.5 | 5.2 | 3.9 | 2.6 | 1.6 | 1.0 |
| 150° | 11.0 | 10.1 | 8.8 | 7.5 | 6.5 | 5.2 | 4.2 | 2.9 | 1.9 | 1.6 | 1.0 |
| 152.5° | 8.4 | 7.8 | 6.8 | 6.2 | 5.2 | 3.9 | 2.9 | 2.3 | 1.6 | 1.3 | 0.6 |
| 155° | 6.8 | 6.2 | 5.5 | 4.5 | 3.9 | 2.9 | 2.3 | 1.6 | 1.3 | 1.0 | 0.6 |
| 157.5° | 4.9 | 4.5 | 3.9 | 3.2 | 2.6 | 1.9 | 1.6 | 1.6 | 1.0 | 0.6 | 0.3 |
| 160° | 3.2 | 2.9 | 2.6 | 1.9 | 1.6 | 1.6 | 1.3 | 1.0 | 0.6 | 0.6 | 0.3 |
| 162.5° | 1.9 | 1.6 | 1.6 | 1.6 | 1.3 | 1.3 | 1.0 | 0.6 | 0.6 | 0.3 | 0.3 |
| 165° | 1.3 | 1.3 | 1.3 | 1.0 | 1.0 | 1.0 | 0.6 | 0.3 | 0.3 | 0.3 | 0.3 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-16SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 |
| 2.5° | 307.8 | 306.9 | 308.2 | 310.4 | 310.8 | 310.4 | 309.8 | 310.8 | 312.0 | 311.7 | 309.5 |
| 5° | 307.2 | 305.9 | 307.2 | 309.5 | 309.5 | 309.1 | 308.8 | 309.8 | 311.1 | 310.8 | 308.8 |
| 7.5° | 305.2 | 303.9 | 305.2 | 307.2 | 307.5 | 306.9 | 306.9 | 307.8 | 309.1 | 308.8 | 307.2 |
| 10° | 302.6 | 301.3 | 302.0 | 304.3 | 304.9 | 304.3 | 304.3 | 305.2 | 306.9 | 306.5 | 304.6 |
| 12.5° | 298.7 | 297.8 | 298.4 | 300.4 | 301.0 | 300.7 | 300.4 | 301.7 | 303.3 | 303.3 | 301.3 |
| 15° | 294.5 | 293.2 | 293.9 | 296.2 | 296.5 | 295.8 | 296.2 | 297.1 | 299.1 | 299.1 | 297.5 |
| 17.5° | 289.7 | 288.0 | 289.0 | 290.6 | 291.0 | 291.0 | 291.0 | 292.3 | 294.5 | 294.2 | 292.9 |
| 20° | 284.2 | 281.9 | 282.5 | 284.2 | 284.8 | 284.8 | 284.8 | 287.1 | 288.7 | 288.7 | 287.4 |
| 22.5° | 277.7 | 276.0 | 276.0 | 277.7 | 278.6 | 278.3 | 278.3 | 280.3 | 282.5 | 282.2 | 282.2 |
| 25° | 270.2 | 268.9 | 268.3 | 270.2 | 270.5 | 270.9 | 271.5 | 273.4 | 276.0 | 276.0 | 276.4 |
| 27.5° | 262.4 | 261.1 | 260.8 | 262.4 | 262.7 | 263.1 | 263.7 | 266.0 | 268.6 | 268.9 | 269.6 |
| 30° | 255.0 | 253.0 | 252.4 | 253.7 | 254.3 | 254.6 | 254.6 | 258.2 | 260.5 | 261.4 | 262.7 |
| 32.5° | 246.2 | 244.3 | 242.6 | 244.9 | 245.2 | 245.9 | 246.2 | 249.8 | 252.4 | 254.0 | 255.9 |
| 35° | 237.4 | 234.2 | 233.6 | 235.2 | 235.8 | 236.1 | 236.8 | 240.7 | 244.3 | 245.6 | 248.1 |
| 37.5° | 227.7 | 225.4 | 223.5 | 225.1 | 225.8 | 226.1 | 228.0 | 231.6 | 235.2 | 237.1 | 239.7 |
| 40° | 218.6 | 215.7 | 214.1 | 215.1 | 215.7 | 216.0 | 218.3 | 222.2 | 226.4 | 228.7 | 231.9 |
| 42.5° | 208.6 | 204.7 | 203.4 | 204.4 | 204.7 | 205.7 | 207.6 | 212.8 | 217.0 | 220.3 | 222.8 |
| 45° | 198.5 | 195.6 | 192.7 | 193.7 | 194.0 | 194.6 | 197.5 | 203.1 | 207.6 | 211.5 | 214.4 |
| 47.5° | 188.1 | 184.6 | 181.7 | 182.3 | 183.6 | 183.9 | 187.2 | 193.7 | 197.9 | 202.1 | 206.0 |
| 50° | 177.8 | 172.9 | 170.6 | 170.6 | 171.3 | 172.9 | 177.1 | 183.6 | 188.1 | 193.0 | 197.2 |
| 52.5° | 167.1 | 162.5 | 159.9 | 160.2 | 160.9 | 162.8 | 166.7 | 173.2 | 178.4 | 183.6 | 188.8 |
| 55° | 156.3 | 151.5 | 148.9 | 148.2 | 148.9 | 151.5 | 156.0 | 162.8 | 168.0 | 174.2 | 179.7 |
| 57.5° | 145.6 | 139.8 | 137.5 | 136.6 | 137.2 | 140.5 | 145.0 | 152.1 | 158.6 | 164.5 | 170.9 |
| 60° | 134.0 | 129.4 | 125.5 | 123.3 | 124.9 | 129.1 | 134.0 | 141.4 | 148.2 | 154.7 | 161.9 |
| 62.5° | 123.9 | 118.1 | 113.9 | 111.6 | 113.2 | 116.8 | 123.6 | 130.7 | 138.2 | 145.6 | 152.8 |
| 65° | 112.6 | 106.7 | 101.9 | 99.6 | 101.2 | 105.4 | 112.2 | 120.0 | 128.1 | 135.6 | 144.0 |
| 67.5° | 101.5 | 95.4 | 89.5 | 87.3 | 89.2 | 93.7 | 101.2 | 110.0 | 118.7 | 126.5 | 135.6 |
| 70° | 90.8 | 84.0 | 77.9 | 76.2 | 77.5 | 83.7 | 90.8 | 99.6 | 108.7 | 117.7 | 127.2 |
| 72.5° | 81.1 | 72.7 | 66.2 | 64.2 | 65.8 | 72.7 | 80.8 | 89.9 | 99.6 | 109.3 | 119.4 |
| 75° | 69.7 | 62.0 | 54.8 | 52.5 | 54.5 | 60.7 | 70.7 | 80.4 | 90.8 | 101.2 | 110.6 |
| 77.5° | 60.7 | 51.6 | 44.1 | 40.5 | 43.8 | 51.6 | 61.3 | 71.7 | 82.4 | 93.1 | 103.8 |
| 80° | 51.3 | 41.8 | 33.7 | 29.8 | 33.4 | 41.8 | 51.6 | 62.9 | 74.9 | 85.6 | 95.4 |
| 82.5° | 42.8 | 32.8 | 24.3 | 20.1 | 24.0 | 33.4 | 44.1 | 55.5 | 67.1 | 77.9 | 89.2 |
| 85° | 35.0 | 24.7 | 15.9 | 11.4 | 16.9 | 25.3 | 36.7 | 48.3 | 60.3 | 71.4 | 82.4 |
| 87.5° | 28.5 | 18.5 | 9.7 | 4.9 | 10.4 | 19.8 | 30.5 | 42.2 | 54.2 | 65.2 | 75.6 |
| 90° | 23.4 | 13.3 | 5.2 | 0.6 | 6.2 | 14.9 | 25.3 | 36.7 | 48.0 | 59.4 | 69.7 |
| 92.5° | 19.1 | 10.1 | 2.9 | 0.3 | 3.9 | 12.0 | 21.7 | 32.4 | 43.5 | 54.5 | 64.6 |
| 95° | 15.9 | 7.8 | 1.9 | 0.3 | 2.9 | 9.4 | 18.5 | 28.9 | 39.2 | 50.0 | 60.0 |
| 97.5° | 13.6 | 6.5 | 1.6 | 0.3 | 2.3 | 8.1 | 15.9 | 25.6 | 35.7 | 45.7 | 55.5 |
| 100° | 11.7 | 5.2 | 1.3 | 0.3 | 1.9 | 6.8 | 13.9 | 22.7 | 32.1 | 41.8 | 51.3 |
| 102.5° | 10.1 | 4.2 | 1.0 | 0.3 | 1.6 | 5.8 | 12.3 | 20.4 | 28.9 | 38.3 | 47.4 |
| 105° | 8.8 | 3.6 | 1.0 | 0.3 | 1.3 | 5.2 | 11.0 | 18.2 | 26.6 | 35.0 | 43.8 |
| 107.5° | 7.5 | 2.9 | 0.6 | 0.3 | 1.0 | 4.2 | 9.7 | 16.5 | 24.0 | 32.1 | 40.2 |
| 110° | 6.5 | 2.6 | 0.6 | 0.3 | 1.0 | 3.9 | 8.4 | 14.9 | 21.7 | 29.2 | 37.0 |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-16SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 5.5 | 1.9 | 0.6 | 0.3 | 0.6 | 3.2 | 7.5 | 13.3 | 19.8 | 26.6 | 34.1 |
| 115° | 4.9 | 1.6 | 0.3 | 0.3 | 0.6 | 2.9 | 6.8 | 12.0 | 17.8 | 24.3 | 31.1 |
| 117.5° | 3.9 | 1.3 | 0.3 | 0.3 | 0.3 | 2.3 | 5.8 | 10.7 | 16.2 | 22.4 | 28.5 |
| 120° | 3.2 | 1.3 | 0.3 | 0.3 | 0.3 | 1.9 | 5.2 | 9.4 | 14.6 | 20.1 | 26.0 |
| 122.5° | 2.9 | 1.0 | 0.3 | 0.3 | 0.3 | 1.6 | 4.5 | 8.4 | 13.0 | 18.2 | 23.7 |
| 125° | 2.6 | 1.0 | 0.3 | 0.3 | 0.3 | 1.3 | 3.9 | 7.5 | 11.7 | 16.2 | 21.4 |
| 127.5° | 1.9 | 1.0 | 0.3 | 0.3 | 0.3 | 1.0 | 3.6 | 6.5 | 10.4 | 14.6 | 19.1 |
| 130° | 1.6 | 0.6 | 0.3 | 0.3 | 0.3 | 1.0 | 2.9 | 5.8 | 9.1 | 13.0 | 17.2 |
| 132.5° | 1.3 | 0.6 | 0.3 | 0.3 | 0.3 | 0.6 | 2.3 | 4.5 | 7.8 | 11.4 | 15.2 |
| 135° | 1.3 | 0.6 | 0.3 | 0.3 | 0.3 | 0.6 | 1.6 | 3.9 | 6.5 | 9.7 | 13.0 |
| 137.5° | 1.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.6 | 1.3 | 2.9 | 5.2 | 7.8 | 10.7 |
| 140° | 1.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 1.0 | 2.3 | 4.2 | 6.5 | 9.1 |
| 142.5° | 1.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 1.0 | 1.6 | 3.2 | 5.2 | 7.1 |
| 145° | 0.6 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.6 | 1.3 | 2.6 | 3.9 | 5.8 |
| 147.5° | 0.6 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.6 | 1.0 | 1.9 | 3.2 | 4.5 |
| 150° | 0.6 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.6 | 1.0 | 1.3 | 2.3 | 3.6 |
| 152.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.6 | 0.6 | 1.0 | 1.6 | 2.3 |
| 155° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.6 | 1.0 | 1.3 | 1.6 |
| 157.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.6 | 0.6 | 1.0 | 1.3 |
| 160° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.6 | 0.6 | 1.0 |
| 162.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.6 | 0.6 |
| 165° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-16SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 |
| 2.5° | 308.5 | 306.2 | 306.9 | 306.5 | 307.2 | 308.2 | 308.2 | 307.8 | 307.8 | 307.2 | 306.5 |
| 5° | 307.8 | 305.6 | 306.5 | 306.2 | 306.9 | 307.8 | 307.8 | 307.5 | 307.5 | 306.5 | 306.2 |
| 7.5° | 305.9 | 304.3 | 304.9 | 304.9 | 305.6 | 306.5 | 306.5 | 306.2 | 306.2 | 305.2 | 304.9 |
| 10° | 303.9 | 302.0 | 303.0 | 303.0 | 303.6 | 304.9 | 304.9 | 304.6 | 304.6 | 303.6 | 303.3 |
| 12.5° | 300.7 | 298.7 | 300.4 | 300.7 | 301.3 | 302.6 | 302.3 | 302.3 | 302.3 | 301.3 | 301.0 |
| 15° | 296.8 | 295.5 | 297.1 | 297.5 | 298.4 | 300.0 | 300.0 | 300.0 | 300.0 | 299.1 | 298.7 |
| 17.5° | 292.6 | 291.6 | 293.2 | 293.9 | 295.2 | 296.8 | 296.8 | 297.1 | 297.5 | 296.8 | 296.5 |
| 20° | 287.7 | 287.1 | 288.7 | 290.0 | 291.9 | 293.6 | 294.2 | 294.5 | 295.2 | 294.5 | 294.2 |
| 22.5° | 282.2 | 282.2 | 284.5 | 285.8 | 288.0 | 289.7 | 290.6 | 291.6 | 292.3 | 291.6 | 291.3 |
| 25° | 276.0 | 277.0 | 279.3 | 281.6 | 284.2 | 285.8 | 286.7 | 288.0 | 288.7 | 288.4 | 288.0 |
| 27.5° | 270.2 | 271.5 | 274.4 | 276.7 | 279.0 | 281.6 | 282.5 | 284.2 | 284.8 | 284.8 | 284.5 |
| 30° | 263.4 | 265.3 | 268.6 | 271.2 | 274.1 | 276.7 | 278.0 | 279.6 | 280.6 | 279.9 | 280.3 |
| 32.5° | 256.9 | 260.1 | 262.7 | 265.7 | 268.9 | 271.5 | 273.1 | 275.1 | 276.0 | 275.7 | 276.0 |
| 35° | 249.8 | 253.0 | 256.6 | 259.5 | 263.4 | 266.0 | 268.3 | 269.9 | 271.2 | 270.9 | 270.9 |
| 37.5° | 242.0 | 246.2 | 249.8 | 253.7 | 257.2 | 260.1 | 262.4 | 264.4 | 265.7 | 265.7 | 265.7 |
| 40° | 234.5 | 239.1 | 242.6 | 247.2 | 251.7 | 254.3 | 256.9 | 258.9 | 260.1 | 260.5 | 260.8 |
| 42.5° | 226.4 | 231.3 | 235.5 | 240.4 | 244.9 | 248.1 | 251.1 | 253.3 | 254.6 | 255.3 | 255.0 |
| 45° | 219.0 | 223.5 | 228.4 | 233.9 | 238.1 | 241.3 | 244.9 | 247.5 | 248.8 | 249.1 | 249.4 |
| 47.5° | 210.5 | 215.7 | 221.2 | 226.7 | 231.0 | 235.2 | 238.4 | 241.0 | 242.3 | 243.3 | 243.3 |
| 50° | 202.4 | 207.9 | 214.1 | 219.9 | 224.5 | 228.7 | 231.9 | 234.8 | 236.5 | 237.1 | 237.4 |
| 52.5° | 194.9 | 200.1 | 206.6 | 212.5 | 217.0 | 221.2 | 225.4 | 228.7 | 230.3 | 231.0 | 231.0 |
| 55° | 185.9 | 192.4 | 199.5 | 205.0 | 209.9 | 214.7 | 219.0 | 222.2 | 223.8 | 224.8 | 225.4 |
| 57.5° | 177.4 | 184.2 | 191.7 | 197.5 | 203.4 | 207.9 | 211.8 | 216.0 | 217.3 | 218.6 | 219.0 |
| 60° | 169.3 | 176.1 | 183.3 | 189.8 | 195.6 | 200.5 | 205.0 | 208.6 | 210.8 | 211.5 | 212.1 |
| 62.5° | 160.9 | 168.0 | 175.5 | 182.0 | 188.1 | 194.0 | 198.2 | 201.4 | 204.0 | 205.0 | 205.7 |
| 65° | 152.8 | 160.2 | 167.7 | 174.5 | 181.0 | 186.8 | 191.1 | 194.3 | 196.9 | 198.5 | 198.8 |
| 67.5° | 144.0 | 152.1 | 159.9 | 167.1 | 173.5 | 179.7 | 183.9 | 187.2 | 189.8 | 191.7 | 192.0 |
| 70° | 135.9 | 144.3 | 152.1 | 159.9 | 166.4 | 172.6 | 177.1 | 180.4 | 183.3 | 184.6 | 185.2 |
| 72.5° | 128.1 | 136.9 | 145.0 | 152.8 | 159.3 | 165.4 | 170.3 | 173.5 | 176.5 | 178.1 | 178.4 |
| 75° | 120.7 | 129.4 | 138.2 | 145.6 | 152.5 | 158.6 | 163.5 | 167.1 | 169.6 | 171.3 | 171.9 |
| 77.5° | 113.2 | 122.3 | 131.0 | 138.5 | 145.6 | 151.8 | 156.0 | 160.2 | 162.8 | 164.8 | 164.8 |
| 80° | 105.7 | 115.2 | 124.2 | 131.7 | 138.8 | 144.3 | 149.2 | 153.4 | 156.0 | 158.0 | 158.0 |
| 82.5° | 99.3 | 108.3 | 117.1 | 124.6 | 131.7 | 137.9 | 142.7 | 146.6 | 149.5 | 150.8 | 151.2 |
| 85° | 91.8 | 101.9 | 110.0 | 118.1 | 124.9 | 130.7 | 135.6 | 139.8 | 142.4 | 143.7 | 144.3 |
| 87.5° | 85.6 | 95.4 | 104.1 | 111.3 | 118.1 | 123.9 | 129.4 | 133.0 | 135.6 | 137.2 | 137.9 |
| 90° | 79.8 | 89.2 | 98.0 | 105.1 | 112.2 | 117.7 | 122.9 | 126.5 | 129.4 | 130.7 | 131.4 |
| 92.5° | 74.6 | 84.0 | 92.4 | 99.6 | 106.4 | 112.6 | 117.4 | 121.0 | 123.6 | 124.9 | 125.9 |
| 95° | 69.7 | 78.8 | 86.9 | 94.7 | 101.2 | 106.7 | 111.9 | 115.5 | 118.4 | 119.4 | 120.3 |
| 97.5° | 64.9 | 73.6 | 81.7 | 89.2 | 96.0 | 101.2 | 106.1 | 109.6 | 111.9 | 113.5 | 114.5 |
| 100° | 60.7 | 69.1 | 76.9 | 84.0 | 90.5 | 95.4 | 100.6 | 103.8 | 106.1 | 107.4 | 108.7 |
| 102.5° | 56.1 | 64.6 | 72.0 | 78.8 | 85.6 | 90.2 | 95.0 | 98.3 | 100.2 | 102.5 | 102.5 |
| 105° | 52.2 | 60.0 | 67.5 | 74.0 | 79.8 | 85.3 | 89.5 | 92.8 | 95.0 | 96.7 | 96.7 |
| 107.5° | 48.0 | 55.8 | 62.9 | 69.7 | 75.3 | 80.4 | 84.3 | 87.3 | 89.9 | 90.8 | 91.8 |
| 110° | 44.8 | 51.6 | 58.7 | 65.2 | 70.4 | 75.3 | 79.1 | 82.4 | 84.7 | 85.6 | 86.3 |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-16SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 40.9 | 48.0 | 54.5 | 60.7 | 65.8 | 70.4 | 74.3 | 76.9 | 79.1 | 80.4 | 80.8 |
| 115° | 37.6 | 44.4 | 50.3 | 56.1 | 61.6 | 65.5 | 69.1 | 71.7 | 74.0 | 74.9 | 75.6 |
| 117.5° | 34.7 | 40.9 | 46.7 | 51.6 | 56.8 | 61.0 | 64.6 | 66.8 | 68.8 | 70.1 | 70.7 |
| 120° | 31.8 | 37.6 | 42.8 | 47.7 | 52.5 | 56.4 | 59.7 | 62.0 | 64.2 | 65.2 | 65.2 |
| 122.5° | 28.9 | 34.4 | 39.2 | 43.8 | 48.3 | 51.9 | 55.5 | 57.4 | 59.4 | 60.3 | 60.3 |
| 125° | 26.3 | 31.5 | 36.0 | 40.2 | 44.4 | 47.7 | 50.6 | 52.9 | 54.8 | 55.5 | 55.5 |
| 127.5° | 23.7 | 28.5 | 32.8 | 36.7 | 40.2 | 43.5 | 46.4 | 48.7 | 50.3 | 50.9 | 50.9 |
| 130° | 21.4 | 25.6 | 29.5 | 33.4 | 37.0 | 39.6 | 42.5 | 44.4 | 45.4 | 46.4 | 46.7 |
| 132.5° | 19.1 | 23.0 | 26.6 | 29.8 | 33.4 | 36.0 | 38.3 | 40.2 | 41.2 | 42.2 | 42.5 |
| 135° | 16.9 | 20.4 | 23.7 | 26.9 | 29.8 | 32.4 | 34.4 | 36.0 | 37.3 | 38.0 | 38.3 |
| 137.5° | 14.3 | 18.2 | 21.1 | 23.7 | 26.9 | 28.9 | 31.1 | 32.1 | 33.4 | 34.1 | 34.1 |
| 140° | 12.0 | 14.9 | 18.2 | 20.8 | 23.4 | 25.3 | 27.2 | 28.9 | 29.8 | 30.2 | 30.2 |
| 142.5° | 9.7 | 12.3 | 14.9 | 18.2 | 20.4 | 22.1 | 24.0 | 25.3 | 26.0 | 26.3 | 26.6 |
| 145° | 7.8 | 9.7 | 12.0 | 14.9 | 17.5 | 19.5 | 20.4 | 21.7 | 22.4 | 22.7 | 23.0 |
| 147.5° | 5.8 | 7.8 | 9.7 | 11.7 | 14.3 | 16.2 | 17.2 | 18.5 | 19.1 | 19.5 | 19.5 |
| 150° | 4.5 | 5.8 | 7.1 | 9.1 | 11.0 | 13.3 | 14.6 | 15.6 | 15.9 | 16.2 | 16.2 |
| 152.5° | 3.2 | 4.5 | 5.5 | 6.8 | 8.1 | 10.1 | 12.0 | 12.7 | 13.0 | 13.3 | 13.3 |
| 155° | 2.3 | 3.2 | 3.9 | 4.9 | 5.8 | 7.5 | 9.1 | 10.1 | 10.4 | 10.7 | 10.7 |
| 157.5° | 1.6 | 2.3 | 2.6 | 3.6 | 4.2 | 4.9 | 6.2 | 7.8 | 8.1 | 8.1 | 8.1 |
| 160° | 1.0 | 1.3 | 1.6 | 2.3 | 2.6 | 3.2 | 3.9 | 4.9 | 5.8 | 5.8 | 5.8 |
| 162.5° | 0.6 | 1.0 | 1.0 | 1.3 | 1.3 | 1.9 | 2.3 | 2.6 | 3.6 | 3.9 | 3.9 |
| 165° | 0.3 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 1.0 | 1.0 | 1.6 | 1.9 | 1.9 |
| 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: 4SNLED-LD5-16SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 |
| 2.5° | 306.9 | 307.5 | 307.2 | 307.2 | 307.2 | 307.8 | 307.2 | 304.3 | 304.9 | 305.6 | 306.2 |
| 5° | 306.5 | 306.9 | 306.9 | 306.5 | 306.5 | 307.2 | 306.5 | 303.6 | 304.3 | 304.9 | 305.2 |
| 7.5° | 305.2 | 305.6 | 305.6 | 305.6 | 305.2 | 305.9 | 304.9 | 302.3 | 302.3 | 303.0 | 303.3 |
| 10° | 303.6 | 304.3 | 303.9 | 303.6 | 303.6 | 303.6 | 303.0 | 300.0 | 300.0 | 300.4 | 300.7 |
| 12.5° | 301.7 | 301.7 | 301.7 | 301.3 | 301.0 | 301.0 | 300.4 | 297.5 | 297.1 | 297.8 | 297.5 |
| 15° | 299.1 | 299.7 | 299.1 | 298.7 | 298.1 | 298.1 | 297.1 | 294.2 | 293.6 | 293.9 | 293.6 |
| 17.5° | 296.8 | 297.1 | 296.5 | 295.8 | 295.2 | 294.9 | 293.9 | 290.6 | 289.7 | 290.0 | 289.3 |
| 20° | 294.5 | 294.5 | 293.9 | 293.2 | 292.3 | 291.3 | 290.0 | 286.7 | 285.1 | 285.1 | 283.8 |
| 22.5° | 291.6 | 291.6 | 291.0 | 290.0 | 289.0 | 287.7 | 286.4 | 283.2 | 280.6 | 279.9 | 279.0 |
| 25° | 288.4 | 288.0 | 287.7 | 286.7 | 284.8 | 283.5 | 282.2 | 278.6 | 275.7 | 274.4 | 272.8 |
| 27.5° | 284.5 | 284.5 | 283.5 | 282.5 | 280.6 | 279.0 | 277.3 | 274.1 | 270.2 | 268.6 | 266.3 |
| 30° | 280.3 | 280.3 | 279.3 | 278.0 | 276.0 | 274.1 | 272.2 | 268.3 | 264.4 | 262.1 | 259.5 |
| 32.5° | 276.0 | 275.7 | 274.7 | 273.4 | 271.5 | 268.6 | 267.0 | 263.1 | 258.5 | 255.9 | 252.4 |
| 35° | 270.9 | 270.5 | 269.6 | 267.9 | 265.3 | 263.1 | 260.5 | 256.9 | 251.7 | 248.5 | 244.6 |
| 37.5° | 265.7 | 265.3 | 264.7 | 262.4 | 259.8 | 257.2 | 254.0 | 250.4 | 245.6 | 241.3 | 237.4 |
| 40° | 260.5 | 260.1 | 258.9 | 257.2 | 254.0 | 250.7 | 247.5 | 243.9 | 238.7 | 233.9 | 229.7 |
| 42.5° | 255.0 | 254.6 | 253.0 | 251.1 | 247.5 | 244.3 | 240.4 | 236.5 | 231.3 | 225.4 | 221.2 |
| 45° | 249.4 | 248.8 | 247.2 | 244.9 | 241.0 | 237.4 | 233.6 | 229.0 | 223.8 | 218.3 | 212.8 |
| 47.5° | 243.6 | 242.6 | 241.0 | 237.8 | 234.5 | 230.6 | 226.1 | 221.2 | 216.0 | 209.9 | 204.0 |
| 50° | 237.1 | 236.5 | 234.5 | 231.6 | 227.7 | 223.8 | 218.6 | 213.8 | 207.6 | 201.8 | 194.6 |
| 52.5° | 231.0 | 229.7 | 228.0 | 224.8 | 220.9 | 216.7 | 211.2 | 205.3 | 199.2 | 193.7 | 186.2 |
| 55° | 224.5 | 223.8 | 221.5 | 219.0 | 214.1 | 209.2 | 204.0 | 197.9 | 191.1 | 184.6 | 177.4 |
| 57.5° | 218.3 | 217.0 | 215.1 | 211.5 | 207.3 | 202.4 | 196.9 | 190.4 | 182.9 | 176.1 | 168.4 |
| 60° | 212.1 | 210.2 | 207.9 | 204.7 | 200.1 | 194.9 | 189.1 | 182.3 | 174.8 | 167.4 | 159.3 |
| 62.5° | 205.3 | 203.7 | 201.1 | 197.9 | 193.3 | 187.8 | 181.7 | 174.5 | 167.4 | 159.6 | 150.8 |
| 65° | 198.5 | 196.9 | 194.3 | 191.1 | 186.5 | 180.4 | 173.9 | 166.7 | 158.6 | 151.2 | 141.8 |
| 67.5° | 191.7 | 190.1 | 187.2 | 183.6 | 179.1 | 173.2 | 166.4 | 158.9 | 150.8 | 142.7 | 133.0 |
| 70° | 184.9 | 182.9 | 180.4 | 176.5 | 171.9 | 165.8 | 158.9 | 151.2 | 143.0 | 134.3 | 124.6 |
| 72.5° | 178.1 | 176.5 | 173.2 | 169.6 | 164.8 | 158.6 | 151.8 | 144.0 | 135.6 | 126.5 | 116.8 |
| 75° | 171.3 | 169.3 | 167.1 | 162.8 | 157.6 | 151.8 | 144.7 | 136.9 | 127.8 | 119.0 | 109.0 |
| 77.5° | 164.5 | 162.8 | 159.9 | 155.7 | 150.8 | 144.7 | 137.5 | 129.8 | 120.7 | 111.6 | 100.9 |
| 80° | 157.6 | 155.7 | 153.4 | 149.5 | 144.0 | 137.9 | 130.4 | 122.6 | 113.5 | 104.1 | 93.4 |
| 82.5° | 150.8 | 148.9 | 146.3 | 142.4 | 137.2 | 131.0 | 123.9 | 115.5 | 106.4 | 96.7 | 86.6 |
| 85° | 144.0 | 142.4 | 139.5 | 135.6 | 130.1 | 123.9 | 116.8 | 109.3 | 99.6 | 89.9 | 79.8 |
| 87.5° | 137.2 | 135.6 | 132.7 | 128.8 | 123.6 | 117.4 | 110.3 | 102.5 | 93.1 | 84.0 | 73.0 |
| 90° | 130.7 | 129.4 | 126.5 | 122.6 | 117.4 | 111.3 | 104.8 | 96.3 | 87.3 | 78.2 | 67.8 |
| 92.5° | 124.9 | 123.6 | 121.0 | 117.1 | 112.6 | 105.7 | 99.3 | 91.1 | 82.1 | 72.7 | 62.6 |
| 95° | 119.7 | 118.1 | 115.5 | 111.9 | 106.4 | 100.6 | 94.1 | 86.0 | 77.2 | 67.8 | 58.1 |
| 97.5° | 113.9 | 112.2 | 109.6 | 105.7 | 101.2 | 95.0 | 88.6 | 80.8 | 72.0 | 63.3 | 53.5 |
| 100° | 108.0 | 106.4 | 103.5 | 100.2 | 95.7 | 89.5 | 83.4 | 75.6 | 67.5 | 59.0 | 49.6 |
| 102.5° | 102.2 | 100.6 | 98.0 | 94.7 | 90.2 | 84.7 | 78.5 | 71.0 | 62.9 | 54.5 | 45.7 |
| 105° | 96.7 | 95.0 | 92.4 | 89.2 | 85.0 | 79.5 | 73.0 | 66.5 | 58.7 | 50.6 | 42.2 |
| 107.5° | 91.1 | 89.5 | 87.3 | 84.0 | 79.8 | 74.6 | 68.4 | 61.6 | 54.5 | 46.7 | 38.6 |
| 110° | 85.6 | 84.3 | 81.7 | 78.8 | 74.6 | 69.4 | 63.9 | 57.4 | 50.3 | 43.1 | 35.4 |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-16SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 80.4 | 79.1 | 76.6 | 73.3 | 69.7 | 64.9 | 59.4 | 53.2 | 46.4 | 39.6 | 32.1 |
| 115° | 75.3 | 73.6 | 71.4 | 68.4 | 64.9 | 60.3 | 55.1 | 49.6 | 42.8 | 36.3 | 29.5 |
| 117.5° | 70.1 | 68.8 | 66.5 | 63.6 | 60.3 | 55.8 | 50.9 | 45.7 | 39.2 | 33.1 | 26.9 |
| 120° | 64.9 | 63.9 | 61.6 | 59.0 | 55.8 | 51.6 | 47.0 | 41.8 | 36.0 | 30.2 | 24.3 |
| 122.5° | 60.0 | 59.0 | 56.8 | 54.5 | 51.3 | 47.4 | 43.1 | 38.3 | 33.1 | 27.6 | 22.4 |
| 125° | 55.5 | 54.2 | 52.2 | 50.0 | 47.0 | 43.5 | 39.2 | 34.7 | 29.8 | 25.0 | 20.1 |
| 127.5° | 50.6 | 49.6 | 48.3 | 45.7 | 42.8 | 39.6 | 35.7 | 31.8 | 27.2 | 22.7 | 18.2 |
| 130° | 46.7 | 45.4 | 43.8 | 41.8 | 39.2 | 36.0 | 32.4 | 28.5 | 24.7 | 20.4 | 15.9 |
| 132.5° | 42.2 | 40.9 | 39.6 | 37.6 | 35.4 | 32.4 | 29.2 | 25.6 | 22.1 | 18.2 | 14.3 |
| 135° | 38.0 | 37.0 | 35.7 | 33.7 | 31.5 | 29.2 | 26.0 | 22.7 | 19.5 | 15.9 | 12.7 |
| 137.5° | 34.1 | 33.1 | 31.8 | 30.5 | 28.2 | 26.0 | 23.0 | 20.1 | 17.2 | 13.9 | 11.0 |
| 140° | 30.2 | 29.5 | 28.2 | 26.9 | 25.0 | 22.7 | 20.1 | 17.5 | 14.9 | 12.0 | 9.4 |
| 142.5° | 26.3 | 25.6 | 24.7 | 23.4 | 21.7 | 19.8 | 17.5 | 15.2 | 12.7 | 10.4 | 8.1 |
| 145° | 22.7 | 22.4 | 21.4 | 20.1 | 18.8 | 16.9 | 14.9 | 13.0 | 10.7 | 8.8 | 6.5 |
| 147.5° | 19.1 | 18.8 | 18.2 | 17.2 | 15.9 | 14.3 | 12.7 | 10.7 | 9.1 | 7.1 | 5.2 |
| 150° | 15.9 | 15.6 | 15.2 | 13.9 | 13.3 | 11.7 | 10.4 | 8.8 | 7.5 | 5.5 | 4.2 |
| 152.5° | 13.0 | 13.0 | 12.3 | 11.4 | 10.7 | 9.4 | 8.4 | 7.1 | 5.8 | 4.5 | 3.2 |
| 155° | 10.4 | 10.1 | 9.7 | 9.1 | 8.4 | 7.5 | 6.5 | 5.5 | 4.5 | 3.2 | 2.3 |
| 157.5° | 8.1 | 7.8 | 7.5 | 6.8 | 6.2 | 5.8 | 4.9 | 3.9 | 2.9 | 2.3 | 1.6 |
| 160° | 5.8 | 5.5 | 5.2 | 4.9 | 4.5 | 3.9 | 3.2 | 2.6 | 1.9 | 1.3 | 1.0 |
| 162.5° | 3.9 | 3.6 | 3.6 | 3.2 | 2.9 | 2.3 | 1.9 | 1.6 | 1.3 | 1.0 | 0.6 |
| 165° | 1.9 | 1.9 | 1.6 | 1.6 | 1.3 | 1.0 | 1.0 | 1.0 | 0.6 | 0.6 | 0.3 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-16SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 | 307.5 |
| 2.5° | 305.9 | 305.9 | 307.2 | 306.9 | 305.9 | 307.8 | 310.1 |
| 5° | 304.9 | 304.9 | 305.9 | 305.9 | 304.9 | 306.9 | 308.8 |
| 7.5° | 303.3 | 303.0 | 303.9 | 303.9 | 302.6 | 304.3 | 306.5 |
| 10° | 300.4 | 300.0 | 301.0 | 301.0 | 299.7 | 301.3 | 303.3 |
| 12.5° | 297.1 | 296.5 | 297.5 | 297.1 | 295.8 | 297.5 | 299.4 |
| 15° | 292.9 | 292.6 | 293.2 | 292.6 | 291.3 | 292.9 | 294.9 |
| 17.5° | 288.7 | 287.7 | 288.0 | 288.0 | 285.8 | 287.4 | 289.0 |
| 20° | 283.2 | 281.9 | 282.2 | 281.9 | 280.3 | 281.2 | 283.2 |
| 22.5° | 277.7 | 275.7 | 275.7 | 275.4 | 273.4 | 274.7 | 276.4 |
| 25° | 270.9 | 268.6 | 268.6 | 268.3 | 266.0 | 267.0 | 268.6 |
| 27.5° | 264.0 | 261.8 | 260.8 | 260.5 | 258.2 | 258.2 | 260.5 |
| 30° | 256.9 | 253.7 | 253.0 | 252.0 | 249.8 | 249.8 | 251.7 |
| 32.5° | 250.1 | 245.6 | 244.3 | 243.0 | 240.7 | 240.4 | 242.6 |
| 35° | 241.0 | 237.4 | 235.2 | 233.9 | 231.3 | 230.6 | 232.6 |
| 37.5° | 233.6 | 229.0 | 225.8 | 224.1 | 221.5 | 220.6 | 223.2 |
| 40° | 225.4 | 220.6 | 216.4 | 215.4 | 211.5 | 210.2 | 212.5 |
| 42.5° | 216.4 | 211.2 | 207.0 | 205.0 | 202.1 | 200.8 | 201.1 |
| 45° | 207.3 | 201.8 | 197.2 | 194.6 | 191.7 | 189.4 | 190.7 |
| 47.5° | 197.9 | 193.0 | 187.5 | 183.6 | 180.0 | 178.4 | 179.1 |
| 50° | 188.5 | 182.6 | 177.4 | 173.2 | 169.0 | 167.1 | 168.4 |
| 52.5° | 179.1 | 172.9 | 167.1 | 162.5 | 157.6 | 155.7 | 156.0 |
| 55° | 170.0 | 163.5 | 156.7 | 151.8 | 147.3 | 144.3 | 143.7 |
| 57.5° | 160.9 | 153.8 | 146.6 | 141.1 | 135.3 | 132.7 | 131.7 |
| 60° | 151.2 | 143.7 | 136.2 | 129.8 | 123.6 | 120.7 | 119.4 |
| 62.5° | 142.1 | 134.0 | 125.5 | 118.7 | 112.6 | 108.7 | 107.7 |
| 65° | 133.3 | 123.9 | 115.5 | 107.7 | 100.9 | 96.7 | 95.4 |
| 67.5° | 123.9 | 114.2 | 105.1 | 96.7 | 90.2 | 84.7 | 84.0 |
| 70° | 115.2 | 104.8 | 94.7 | 86.0 | 78.8 | 73.3 | 70.7 |
| 72.5° | 106.4 | 95.7 | 85.3 | 75.9 | 66.8 | 61.6 | 59.7 |
| 75° | 98.0 | 86.9 | 75.9 | 66.2 | 56.1 | 50.0 | 48.0 |
| 77.5° | 90.2 | 78.8 | 67.1 | 56.4 | 47.0 | 39.2 | 36.7 |
| 80° | 82.7 | 71.0 | 58.7 | 47.7 | 37.6 | 29.2 | 26.3 |
| 82.5° | 74.9 | 63.9 | 51.3 | 39.6 | 29.2 | 20.4 | 16.9 |
| 85° | 68.1 | 57.1 | 44.4 | 32.8 | 22.4 | 13.0 | 9.1 |
| 87.5° | 62.6 | 50.6 | 39.2 | 27.6 | 16.9 | 7.5 | 2.6 |
| 90° | 57.1 | 45.4 | 34.1 | 22.7 | 12.7 | 4.2 | 0.3 |
| 92.5° | 52.2 | 41.2 | 29.8 | 19.5 | 9.7 | 2.9 | 0.3 |
| 95° | 47.7 | 37.0 | 26.3 | 16.2 | 7.8 | 1.9 | 0.3 |
| 97.5° | 43.5 | 33.4 | 23.4 | 13.9 | 6.5 | 1.6 | 0.3 |
| 100° | 39.9 | 30.2 | 20.8 | 12.3 | 5.5 | 1.3 | 0.3 |
| 102.5° | 36.3 | 27.2 | 18.5 | 10.7 | 4.9 | 1.0 | 0.3 |
| 105° | 33.4 | 24.7 | 16.5 | 9.7 | 4.2 | 1.0 | 0.3 |
| 107.5° | 30.5 | 22.4 | 14.9 | 8.4 | 3.6 | 0.6 | 0.3 |
| 110° | 27.6 | 20.4 | 13.3 | 7.5 | 3.2 | 0.6 | 0.3 |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-16SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|------|------|------|------|------|------|------|
| 112.5° | 25.3 | 18.5 | 12.0 | 6.8 | 2.6 | 0.6 | 0.3 |
| 115° | 23.0 | 16.5 | 10.7 | 5.8 | 2.3 | 0.3 | 0.3 |
| 117.5° | 20.8 | 14.9 | 9.4 | 5.2 | 1.9 | 0.3 | 0.3 |
| 120° | 18.8 | 13.3 | 8.4 | 4.5 | 1.6 | 0.3 | 0.3 |
| 122.5° | 16.9 | 12.0 | 7.5 | 3.9 | 1.3 | 0.3 | 0.3 |
| 125° | 15.2 | 10.7 | 6.5 | 3.2 | 1.0 | 0.3 | 0.3 |
| 127.5° | 13.6 | 9.4 | 5.8 | 2.9 | 1.0 | 0.3 | 0.3 |
| 130° | 12.0 | 8.4 | 4.9 | 2.3 | 0.6 | 0.3 | 0.3 |
| 132.5° | 10.7 | 7.1 | 4.2 | 1.9 | 0.6 | 0.3 | 0.3 |
| 135° | 9.4 | 6.2 | 3.6 | 1.3 | 0.6 | 0.3 | 0.3 |
| 137.5° | 8.1 | 5.2 | 2.9 | 1.0 | 0.3 | 0.3 | 0.3 |
| 140° | 6.8 | 4.5 | 2.3 | 1.0 | 0.3 | 0.3 | 0.3 |
| 142.5° | 5.8 | 3.6 | 1.6 | 0.6 | 0.3 | 0.3 | 0.3 |
| 145° | 4.5 | 2.9 | 1.3 | 0.6 | 0.3 | 0.3 | 0.3 |
| 147.5° | 3.6 | 2.3 | 1.0 | 0.6 | 0.3 | 0.3 | 0.3 |
| 150° | 2.6 | 1.6 | 1.0 | 0.3 | 0.3 | 0.3 | 0.3 |
| 152.5° | 1.9 | 1.3 | 0.6 | 0.3 | 0.3 | 0.3 | 0.3 |
| 155° | 1.3 | 1.0 | 0.6 | 0.3 | 0.3 | 0.3 | 0.3 |
| 157.5° | 1.0 | 0.6 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 160° | 0.6 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 162.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 165° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 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)