

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: McGRAW-EDISON

Report Number: P227148

Luminaire Tested: **ISW-AF-600-LED-E1-SLL-7050-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35948)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISW-AF-600-LED-E1-SLL-7050-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR LEFT, WITH
UPLIGHT GLOW
Light Source: (16) 5000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5265.3 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U5 - G2

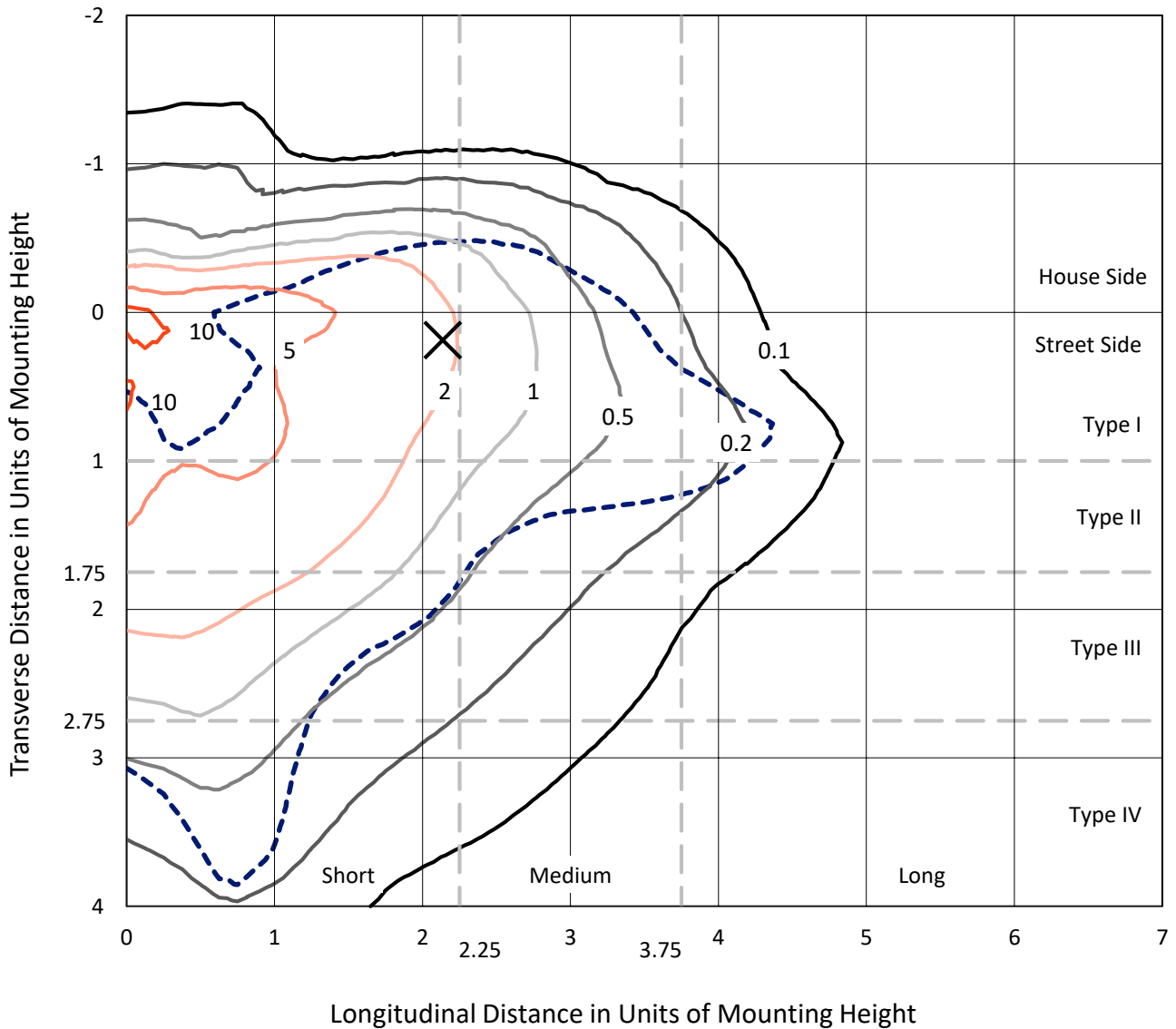
Input Watts (W): 50.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

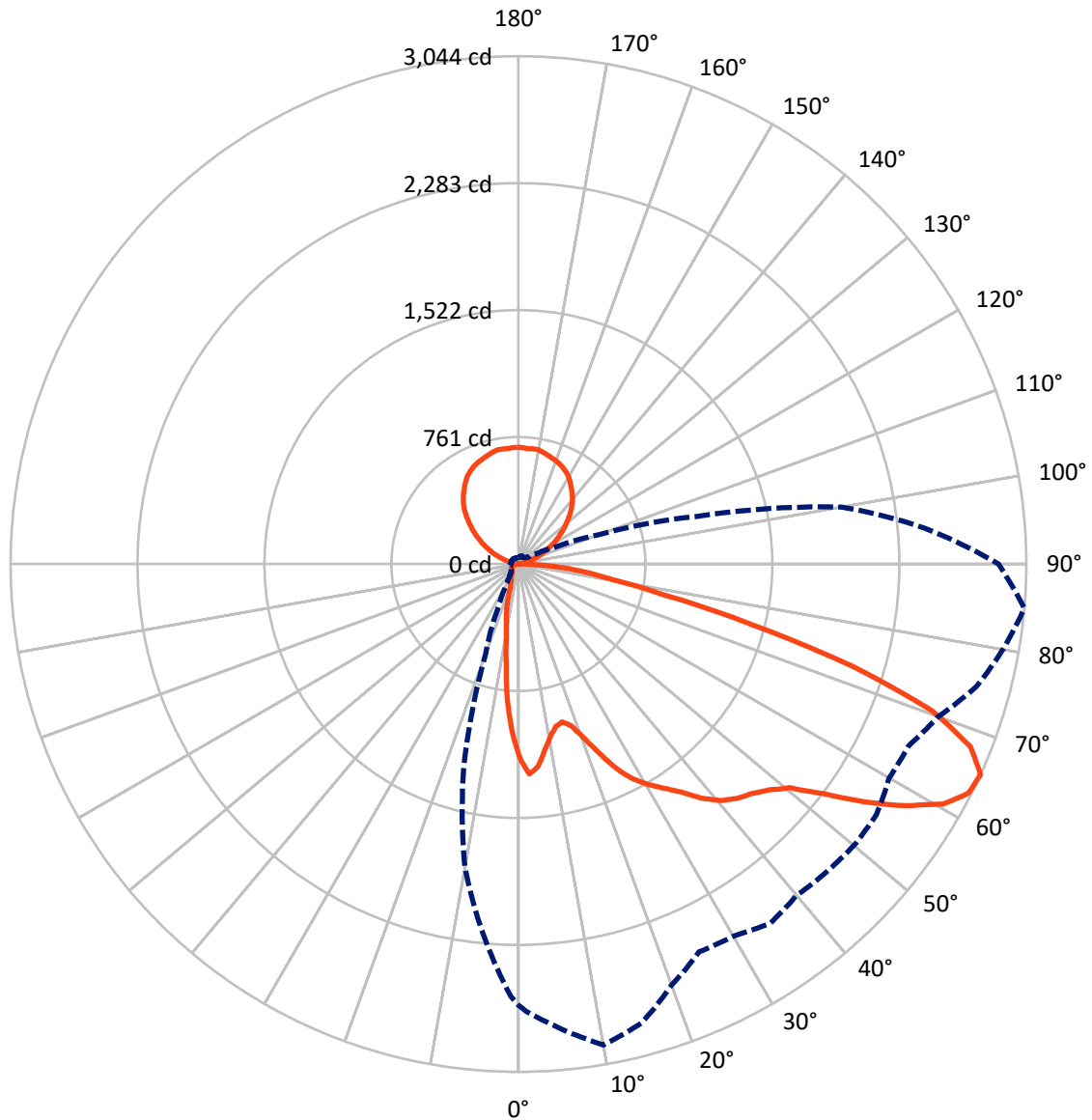
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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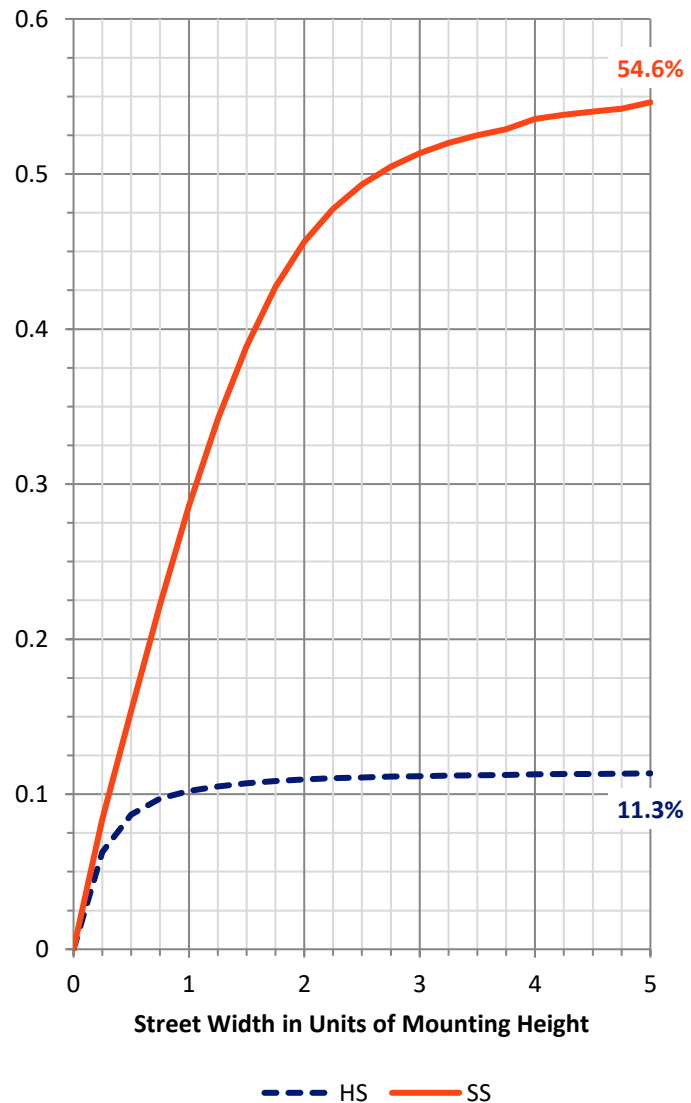
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 605.9 | 867.6 | 1473.5 |
| | % Fixture | 11.5 | 16.5 | 28.0 |
| Street Side | Lumens | 2924.2 | 867.7 | 3791.9 |
| | % Fixture | 55.5 | 16.5 | 72.0 |
| Total | Lumens | 3530.0 | 1735.3 | 5265.3 |
| | % Fixture | 67.0 | 33.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 86.4 | 1.6 |
| 10°-20° | 166.2 | 3.2 |
| 20°-30° | 237.0 | 4.5 |
| 30°-40° | 343.8 | 6.5 |
| 40°-50° | 491.8 | 9.3 |
| 50°-60° | 755.1 | 14.3 |
| 60°-70° | 874.1 | 16.6 |
| 70°-80° | 445.9 | 8.5 |
| 80°-90° | 129.7 | 2.5 |
| 90°-100° | 9.4 | 0.2 |
| 100°-110° | 57.4 | 1.1 |
| 110°-120° | 166.1 | 3.2 |
| 120°-130° | 273.2 | 5.2 |
| 130°-140° | 336.8 | 6.4 |
| 140°-150° | 344.6 | 6.5 |
| 150°-160° | 290.3 | 5.5 |
| 160°-170° | 191.2 | 3.6 |
| 170°-180° | 66.3 | 1.3 |
| 0°-90° | 3530.0 | 67.0 |
| 0°-180° | 5265.3 | 100.0 |



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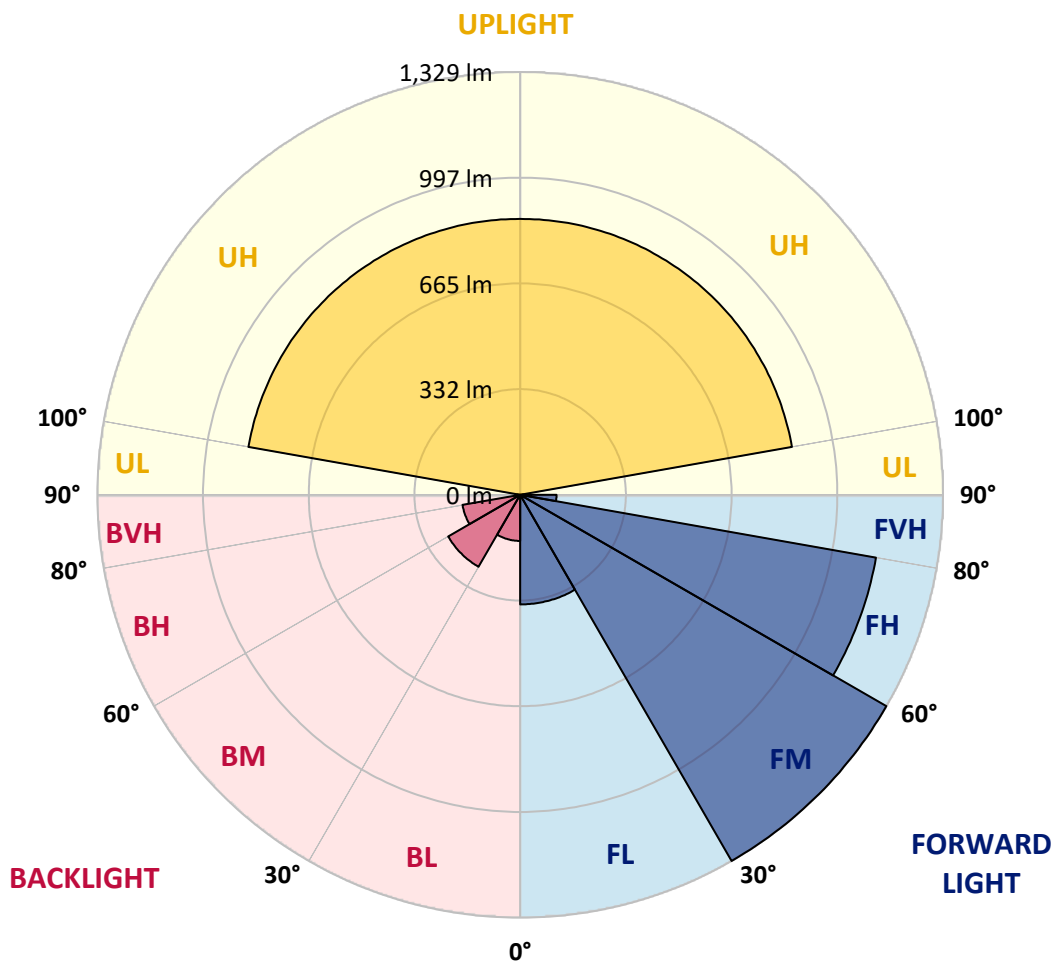
CATALOG NUMBER: ISW-AF-600-LED-E1-SLL-7050-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|---------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 344.7 | 6.5 | | | |
| FM | (30°-60°) | 1329.4 | 25.2 | | | |
| FH | (60°-80°) | 1135.9 | 21.6 | | | G1/1800 |
| FVH | (80°-90°) | 114.2 | 2.2 | | | G2/225 |
| BL | (0°-30°) | 144.9 | 2.8 | B1/500 | | |
| BM | (30°-60°) | 261.4 | 5.0 | B1/1000 | | |
| BH | (60°-80°) | 184.1 | 3.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 15.5 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 9.4 | 0.2 | | U1/10 | |
| UH | (100°-180°) | 867.6 | 16.5 | | U4/1000 | |

BUG Rating: B1-U5-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 |
| 2.5° | 1206.9 | 1208.1 | 1224.7 | 1240.7 | 1260.9 | 1258.0 | 1274.6 | 1287.1 | 1298.3 | 1300.1 | 1308.4 |
| 5° | 1133.2 | 1145.1 | 1182.5 | 1214.6 | 1255.0 | 1286.5 | 1320.3 | 1347.0 | 1366.6 | 1385.1 | 1387.4 |
| 7.5° | 1029.9 | 1038.8 | 1082.1 | 1132.6 | 1190.8 | 1232.4 | 1283.5 | 1328.0 | 1359.5 | 1389.2 | 1395.7 |
| 10° | 941.4 | 949.7 | 997.8 | 1063.1 | 1114.2 | 1168.3 | 1221.1 | 1257.4 | 1298.3 | 1323.9 | 1336.4 |
| 12.5° | 898.6 | 908.7 | 954.5 | 1013.8 | 1066.1 | 1118.4 | 1158.2 | 1189.6 | 1212.8 | 1217.6 | 1221.1 |
| 15° | 915.3 | 920.6 | 971.1 | 1023.9 | 1065.5 | 1091.7 | 1102.3 | 1121.3 | 1119.6 | 1129.1 | 1130.9 |
| 17.5° | 982.4 | 980.0 | 1033.4 | 1070.3 | 1090.5 | 1087.5 | 1070.9 | 1060.8 | 1042.9 | 1037.6 | 1053.0 |
| 20° | 1097.6 | 1105.9 | 1140.4 | 1162.9 | 1142.1 | 1094.0 | 1048.3 | 1016.8 | 991.9 | 983.6 | 981.8 |
| 22.5° | 1232.4 | 1243.1 | 1280.5 | 1268.6 | 1215.8 | 1127.9 | 1044.7 | 994.2 | 963.4 | 954.5 | 950.9 |
| 25° | 1373.8 | 1380.9 | 1399.9 | 1359.5 | 1285.3 | 1171.2 | 1069.7 | 999.0 | 958.0 | 944.9 | 943.2 |
| 27.5° | 1487.8 | 1494.9 | 1486.0 | 1439.7 | 1332.2 | 1219.9 | 1104.1 | 1020.4 | 966.9 | 953.9 | 947.9 |
| 30° | 1581.1 | 1584.6 | 1554.9 | 1497.3 | 1390.4 | 1274.0 | 1149.3 | 1057.8 | 995.4 | 965.7 | 961.6 |
| 32.5° | 1685.6 | 1683.2 | 1625.6 | 1546.0 | 1439.7 | 1322.7 | 1200.9 | 1100.0 | 1022.8 | 986.5 | 980.0 |
| 35° | 1800.2 | 1779.4 | 1677.9 | 1594.1 | 1473.5 | 1360.1 | 1247.9 | 1144.5 | 1066.7 | 1018.6 | 1010.3 |
| 37.5° | 1902.4 | 1881.0 | 1745.0 | 1632.1 | 1507.4 | 1389.2 | 1284.7 | 1202.1 | 1133.8 | 1089.9 | 1086.3 |
| 40° | 1982.0 | 1955.8 | 1796.1 | 1657.7 | 1524.0 | 1410.6 | 1328.0 | 1274.6 | 1229.4 | 1193.8 | 1193.8 |
| 42.5° | 2046.1 | 2017.6 | 1845.9 | 1687.4 | 1538.9 | 1443.3 | 1400.5 | 1382.1 | 1372.6 | 1353.0 | 1360.1 |
| 45° | 2107.9 | 2078.8 | 1886.9 | 1706.4 | 1572.1 | 1506.8 | 1512.7 | 1528.8 | 1557.3 | 1546.0 | 1556.1 |
| 47.5° | 2166.7 | 2138.2 | 1933.3 | 1736.7 | 1636.3 | 1620.8 | 1651.7 | 1715.9 | 1771.7 | 1815.7 | 1846.5 |
| 50° | 2265.3 | 2231.4 | 2016.4 | 1825.8 | 1737.3 | 1745.0 | 1834.1 | 1960.0 | 2050.9 | 2091.2 | 2088.9 |
| 52.5° | 2452.4 | 2404.2 | 2195.2 | 1992.1 | 1881.6 | 1924.3 | 2029.5 | 2188.1 | 2306.8 | 2338.3 | 2350.8 |
| 55° | 2681.0 | 2643.0 | 2453.5 | 2212.4 | 2132.2 | 2147.1 | 2277.7 | 2457.1 | 2548.6 | 2581.2 | 2591.9 |
| 57.5° | 2815.2 | 2805.1 | 2686.4 | 2448.2 | 2370.4 | 2364.5 | 2534.9 | 2681.6 | 2760.6 | 2791.5 | 2782.0 |
| 59° | 2846.7 | 2849.7 | 2782.0 | 2615.1 | 2508.2 | 2495.1 | 2668.5 | 2804.6 | 2870.5 | 2880.0 | 2875.2 |
| 60° | 2843.8 | 2860.4 | 2852.1 | 2706.6 | 2595.5 | 2578.9 | 2725.0 | 2854.4 | 2909.7 | 2924.5 | 2907.9 |
| 62.5° | 2782.6 | 2811.1 | 2890.1 | 2874.6 | 2793.3 | 2708.3 | 2777.2 | 2871.1 | 2906.7 | 2892.5 | 2880.0 |
| 65° | 2643.6 | 2681.0 | 2790.9 | 2927.5 | 2849.1 | 2685.2 | 2564.6 | 2575.3 | 2629.3 | 2593.7 | 2610.9 |
| 67.5° | 2403.7 | 2446.4 | 2504.6 | 2814.7 | 2700.6 | 2425.6 | 2218.3 | 2116.8 | 2091.2 | 2125.7 | 2180.3 |
| 70° | 1955.2 | 1983.1 | 2130.4 | 2568.8 | 2371.6 | 1993.8 | 1733.7 | 1598.3 | 1553.1 | 1632.7 | 1688.6 |
| 72.5° | 1379.1 | 1420.7 | 1614.9 | 2125.7 | 1951.1 | 1597.1 | 1312.0 | 1187.3 | 1142.1 | 1145.7 | 1194.4 |
| 75° | 839.2 | 895.7 | 1128.5 | 1680.8 | 1537.7 | 1223.5 | 999.6 | 909.9 | 896.2 | 888.5 | 880.2 |
| 77.5° | 553.5 | 574.9 | 741.8 | 1160.0 | 1037.0 | 870.1 | 750.1 | 787.0 | 827.9 | 836.9 | 847.5 |
| 80° | 375.4 | 381.9 | 481.1 | 813.7 | 683.0 | 642.6 | 606.4 | 693.1 | 770.9 | 785.2 | 777.5 |
| 82.5° | 231.0 | 250.6 | 335.6 | 548.8 | 544.6 | 525.6 | 479.3 | 547.0 | 598.7 | 607.6 | 623.6 |
| 85° | 80.2 | 83.7 | 206.1 | 484.7 | 553.5 | 559.5 | 395.0 | 311.8 | 350.4 | 343.9 | 247.1 |
| 87.5° | 34.4 | 38.6 | 64.1 | 324.3 | 374.8 | 310.0 | 180.6 | 160.4 | 123.5 | 69.5 | 67.1 |
| 90° | 7.4 | 7.4 | 6.8 | 9.0 | 15.9 | 13.4 | 13.3 | 9.8 | 8.0 | 7.5 | 7.0 |
| 92.5° | 4.0 | 4.0 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| 95° | 5.0 | 5.0 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 |
| 97.5° | 7.0 | 7.0 | 7.0 | 7.5 | 8.0 | 8.0 | 8.0 | 8.5 | 9.0 | 9.0 | 9.0 |
| 100° | 8.0 | 8.0 | 8.0 | 8.5 | 9.0 | 9.5 | 10.0 | 11.0 | 12.0 | 16.5 | 21.0 |
| 102.5° | 11.0 | 11.0 | 11.0 | 12.0 | 13.0 | 15.5 | 18.0 | 22.5 | 27.0 | 33.5 | 40.0 |
| 105° | 21.0 | 21.2 | 22.0 | 24.5 | 27.0 | 31.5 | 36.0 | 42.0 | 48.0 | 55.5 | 63.0 |
| 107.5° | 41.0 | 41.2 | 42.0 | 45.5 | 49.0 | 53.5 | 58.0 | 65.5 | 73.0 | 80.5 | 88.0 |



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CATALOG NUMBER: ISW-AF-600-LED-E1-SLL-7050-ULG

CANDELA DISTRIBUTION (continued):

| | 0° | 1° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110° | 66.0 | 66.4 | 68.0 | 71.0 | 74.0 | 80.5 | 87.0 | 94.5 | 102.0 | 108.0 | 114.0 |
| 112.5° | 99.0 | 99.0 | 99.0 | 102.5 | 106.0 | 113.5 | 121.0 | 127.5 | 134.0 | 138.5 | 143.0 |
| 115° | 140.0 | 139.8 | 139.0 | 143.0 | 147.0 | 153.0 | 159.0 | 163.5 | 168.0 | 171.0 | 174.0 |
| 117.5° | 184.0 | 184.0 | 184.0 | 186.5 | 189.0 | 193.0 | 197.0 | 199.5 | 202.0 | 203.5 | 205.0 |
| 120° | 225.0 | 224.6 | 223.0 | 224.5 | 226.0 | 229.5 | 233.0 | 235.0 | 237.0 | 240.0 | 243.0 |
| 122.5° | 263.0 | 262.4 | 260.0 | 260.5 | 261.0 | 264.0 | 267.0 | 269.0 | 271.0 | 274.0 | 277.0 |
| 125° | 298.0 | 297.2 | 294.0 | 295.0 | 296.0 | 297.5 | 299.0 | 302.0 | 305.0 | 307.5 | 310.0 |
| 127.5° | 330.0 | 329.8 | 329.0 | 329.0 | 329.0 | 331.0 | 333.0 | 336.0 | 339.0 | 339.5 | 340.0 |
| 130° | 363.0 | 362.6 | 361.0 | 361.5 | 362.0 | 364.0 | 366.0 | 368.0 | 370.0 | 371.0 | 372.0 |
| 132.5° | 396.0 | 395.6 | 394.0 | 393.5 | 393.0 | 397.0 | 401.0 | 402.5 | 404.0 | 404.5 | 405.0 |
| 135° | 429.0 | 428.4 | 426.0 | 426.0 | 426.0 | 429.0 | 432.0 | 433.5 | 435.0 | 436.0 | 437.0 |
| 137.5° | 460.0 | 459.4 | 457.0 | 458.0 | 459.0 | 459.5 | 460.0 | 462.0 | 464.0 | 466.0 | 468.0 |
| 140° | 488.0 | 487.4 | 485.0 | 486.0 | 487.0 | 488.0 | 489.0 | 490.0 | 491.0 | 494.0 | 497.0 |
| 142.5° | 518.0 | 517.4 | 515.0 | 516.0 | 517.0 | 517.5 | 518.0 | 519.5 | 521.0 | 523.0 | 525.0 |
| 145° | 550.0 | 549.2 | 546.0 | 545.0 | 544.0 | 545.5 | 547.0 | 548.5 | 550.0 | 550.5 | 551.0 |
| 147.5° | 575.0 | 574.4 | 572.0 | 571.5 | 571.0 | 572.5 | 574.0 | 574.0 | 574.0 | 574.5 | 575.0 |
| 150° | 595.0 | 594.4 | 592.0 | 592.5 | 593.0 | 593.0 | 593.0 | 593.0 | 593.0 | 593.0 | 593.0 |
| 152.5° | 611.0 | 610.4 | 608.0 | 608.0 | 608.0 | 608.5 | 609.0 | 609.5 | 610.0 | 610.0 | 610.0 |
| 155° | 629.0 | 628.2 | 625.0 | 625.0 | 625.0 | 626.0 | 627.0 | 628.5 | 630.0 | 629.0 | 628.0 |
| 157.5° | 646.0 | 645.4 | 643.0 | 643.0 | 643.0 | 643.5 | 644.0 | 645.0 | 646.0 | 645.5 | 645.0 |
| 160° | 663.0 | 662.4 | 660.0 | 659.5 | 659.0 | 657.5 | 656.0 | 655.5 | 655.0 | 655.0 | 655.0 |
| 162.5° | 673.0 | 672.2 | 669.0 | 669.0 | 669.0 | 667.0 | 665.0 | 663.0 | 661.0 | 662.0 | 663.0 |
| 165° | 681.0 | 680.4 | 678.0 | 677.0 | 676.0 | 676.0 | 676.0 | 674.5 | 673.0 | 673.0 | 673.0 |
| 167.5° | 690.0 | 689.4 | 687.0 | 685.5 | 684.0 | 685.0 | 686.0 | 687.0 | 688.0 | 686.5 | 685.0 |
| 170° | 698.0 | 697.4 | 695.0 | 693.5 | 692.0 | 692.0 | 692.0 | 692.5 | 693.0 | 692.0 | 691.0 |
| 172.5° | 699.0 | 698.6 | 697.0 | 696.0 | 695.0 | 694.0 | 693.0 | 691.5 | 690.0 | 690.0 | 690.0 |
| 175° | 700.0 | 699.6 | 698.0 | 697.5 | 697.0 | 696.0 | 695.0 | 693.0 | 691.0 | 690.5 | 690.0 |
| 177.5° | 707.0 | 706.6 | 705.0 | 702.5 | 700.0 | 699.5 | 699.0 | 698.0 | 697.0 | 696.0 | 695.0 |
| 180° | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 |



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CATALOG NUMBER: ISW-AF-600-LED-E1-SLL-7050-ULG

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 |
| 2.5° | 1306.7 | 1298.9 | 1303.7 | 1297.2 | 1286.5 | 1279.3 | 1271.0 | 1260.3 | 1247.9 | 1231.2 | 1214.6 |
| 5° | 1382.1 | 1376.1 | 1361.3 | 1339.9 | 1310.2 | 1285.3 | 1255.6 | 1220.5 | 1191.4 | 1154.0 | 1119.0 |
| 7.5° | 1388.6 | 1379.1 | 1351.8 | 1312.0 | 1266.3 | 1219.9 | 1184.9 | 1127.9 | 1091.1 | 1031.7 | 991.9 |
| 10° | 1329.2 | 1329.8 | 1302.5 | 1265.1 | 1217.6 | 1162.9 | 1112.4 | 1050.1 | 996.0 | 935.4 | 868.9 |
| 12.5° | 1241.9 | 1250.2 | 1251.4 | 1218.2 | 1171.8 | 1114.2 | 1057.8 | 998.4 | 931.3 | 866.5 | 805.4 |
| 15° | 1142.7 | 1166.5 | 1168.3 | 1160.0 | 1135.6 | 1086.9 | 1035.2 | 981.8 | 913.5 | 842.8 | 773.9 |
| 17.5° | 1054.2 | 1076.8 | 1097.6 | 1116.6 | 1117.8 | 1094.6 | 1063.1 | 1017.4 | 949.1 | 866.0 | 785.2 |
| 20° | 987.1 | 1011.5 | 1047.1 | 1082.1 | 1120.8 | 1132.6 | 1135.0 | 1105.9 | 1032.9 | 931.3 | 822.0 |
| 22.5° | 959.2 | 987.7 | 1023.9 | 1089.9 | 1158.2 | 1200.3 | 1224.1 | 1224.1 | 1147.5 | 1028.7 | 882.6 |
| 25° | 953.3 | 976.4 | 1031.7 | 1113.6 | 1205.1 | 1278.7 | 1323.9 | 1354.2 | 1298.9 | 1154.0 | 957.4 |
| 27.5° | 957.4 | 988.9 | 1057.2 | 1140.9 | 1236.6 | 1331.0 | 1405.2 | 1458.1 | 1406.4 | 1239.5 | 1026.9 |
| 30° | 974.1 | 1021.0 | 1091.7 | 1178.4 | 1277.0 | 1376.7 | 1466.4 | 1533.5 | 1495.5 | 1317.3 | 1092.8 |
| 32.5° | 1003.2 | 1060.2 | 1140.4 | 1218.8 | 1316.8 | 1424.8 | 1513.3 | 1601.8 | 1573.9 | 1371.4 | 1127.9 |
| 35° | 1046.5 | 1113.6 | 1186.7 | 1265.7 | 1359.5 | 1467.6 | 1562.0 | 1677.9 | 1667.8 | 1439.1 | 1162.9 |
| 37.5° | 1116.6 | 1185.5 | 1252.6 | 1320.3 | 1409.4 | 1514.5 | 1632.1 | 1780.0 | 1771.7 | 1539.5 | 1219.3 |
| 40° | 1240.1 | 1280.5 | 1330.4 | 1373.8 | 1457.5 | 1557.9 | 1683.8 | 1864.4 | 1894.1 | 1625.6 | 1269.2 |
| 42.5° | 1393.4 | 1417.1 | 1431.4 | 1443.3 | 1486.0 | 1580.5 | 1721.2 | 1920.8 | 1969.5 | 1689.7 | 1307.8 |
| 45° | 1588.8 | 1581.6 | 1553.1 | 1525.8 | 1521.1 | 1593.5 | 1738.4 | 1962.4 | 2028.9 | 1752.1 | 1347.0 |
| 47.5° | 1819.8 | 1804.4 | 1726.6 | 1636.9 | 1587.0 | 1617.3 | 1768.7 | 2023.5 | 2101.9 | 1834.1 | 1395.7 |
| 50° | 2086.5 | 2050.3 | 1923.2 | 1771.7 | 1679.6 | 1684.4 | 1845.4 | 2108.5 | 2198.1 | 1941.0 | 1486.6 |
| 52.5° | 2333.6 | 2268.8 | 2117.4 | 1917.2 | 1785.4 | 1801.4 | 1983.1 | 2284.3 | 2395.3 | 2118.0 | 1639.3 |
| 55° | 2551.5 | 2468.4 | 2305.1 | 2085.9 | 1966.5 | 1994.4 | 2203.5 | 2517.1 | 2622.2 | 2328.8 | 1793.7 |
| 57.5° | 2736.8 | 2648.4 | 2487.4 | 2294.4 | 2145.9 | 2169.0 | 2400.1 | 2733.3 | 2804.0 | 2518.3 | 1941.6 |
| 59° | 2821.2 | 2733.9 | 2585.4 | 2407.2 | 2268.2 | 2316.9 | 2539.1 | 2840.8 | 2871.1 | 2591.3 | 1998.0 |
| 60° | 2862.2 | 2774.9 | 2644.2 | 2470.2 | 2343.1 | 2407.2 | 2612.7 | 2922.2 | 2896.0 | 2602.0 | 2019.4 |
| 62.5° | 2859.2 | 2798.0 | 2711.9 | 2593.1 | 2570.0 | 2676.9 | 2852.1 | 3026.7 | 2913.2 | 2571.1 | 2033.0 |
| 65° | 2624.6 | 2619.2 | 2565.8 | 2579.5 | 2676.3 | 2841.4 | 2948.9 | 3043.9 | 2877.6 | 2448.2 | 1967.1 |
| 67.5° | 2189.2 | 2211.2 | 2218.3 | 2302.1 | 2528.4 | 2808.7 | 2903.1 | 2921.6 | 2722.6 | 2185.1 | 1762.2 |
| 70° | 1690.3 | 1641.6 | 1721.8 | 1869.7 | 2195.8 | 2556.9 | 2691.1 | 2627.0 | 2405.4 | 1829.9 | 1439.1 |
| 72.5° | 1196.8 | 1211.0 | 1326.3 | 1518.1 | 1850.1 | 2224.3 | 2434.5 | 2084.7 | 1809.7 | 1369.6 | 1020.4 |
| 75° | 900.4 | 967.5 | 1023.3 | 1191.4 | 1502.7 | 1905.3 | 2078.8 | 1433.2 | 1179.0 | 944.4 | 667.6 |
| 77.5° | 863.0 | 857.6 | 814.9 | 850.5 | 1083.3 | 1334.6 | 1483.1 | 894.5 | 738.3 | 617.7 | 403.3 |
| 80° | 797.7 | 751.9 | 674.1 | 639.7 | 682.4 | 857.0 | 941.4 | 574.9 | 491.2 | 431.8 | 227.5 |
| 82.5° | 618.9 | 588.0 | 506.0 | 503.7 | 569.0 | 608.8 | 647.4 | 407.4 | 369.4 | 349.8 | 139.6 |
| 85° | 392.6 | 403.3 | 413.4 | 504.2 | 631.4 | 638.5 | 503.7 | 248.3 | 194.8 | 274.4 | 89.1 |
| 87.5° | 116.4 | 189.5 | 229.9 | 390.2 | 569.0 | 570.8 | 378.9 | 81.4 | 73.1 | 85.5 | 51.7 |
| 90° | 7.0 | 7.0 | 8.0 | 9.0 | 9.0 | 9.0 | 8.6 | 7.0 | 7.0 | 7.0 | 8.0 |
| 92.5° | 6.5 | 7.0 | 7.0 | 7.0 | 6.5 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| 95° | 7.0 | 7.0 | 7.5 | 8.0 | 7.5 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 |
| 97.5° | 10.5 | 12.0 | 11.0 | 10.0 | 9.5 | 9.0 | 8.5 | 8.0 | 8.0 | 8.0 | 8.5 |
| 100° | 25.0 | 29.0 | 27.5 | 26.0 | 24.5 | 23.0 | 21.0 | 19.0 | 19.0 | 19.0 | 21.0 |
| 102.5° | 45.0 | 50.0 | 48.5 | 47.0 | 44.5 | 42.0 | 40.5 | 39.0 | 38.0 | 39.0 | 40.5 |
| 105° | 67.5 | 72.0 | 71.0 | 70.0 | 67.5 | 65.0 | 63.0 | 61.0 | 61.0 | 61.0 | 63.0 |
| 107.5° | 91.5 | 95.0 | 94.5 | 94.0 | 92.0 | 90.0 | 88.5 | 87.0 | 86.0 | 87.0 | 88.5 |



REPORT NUMBER: P227148

CATALOG NUMBER: ISW-AF-600-LED-E1-SLL-7050-ULG

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110° | 117.0 | 120.0 | 120.5 | 121.0 | 120.0 | 119.0 | 117.5 | 116.0 | 117.0 | 116.0 | 117.5 |
| 112.5° | 145.5 | 148.0 | 149.0 | 150.0 | 149.5 | 149.0 | 148.0 | 147.0 | 147.0 | 147.0 | 148.0 |
| 115° | 176.5 | 179.0 | 180.5 | 182.0 | 180.5 | 179.0 | 178.0 | 177.0 | 178.0 | 177.0 | 178.0 |
| 117.5° | 208.0 | 211.0 | 213.0 | 215.0 | 212.5 | 210.0 | 209.0 | 208.0 | 209.0 | 208.0 | 209.0 |
| 120° | 244.5 | 246.0 | 248.0 | 250.0 | 247.5 | 245.0 | 244.0 | 243.0 | 243.0 | 243.0 | 244.0 |
| 122.5° | 278.0 | 279.0 | 281.0 | 283.0 | 280.5 | 278.0 | 277.0 | 276.0 | 277.0 | 276.0 | 277.0 |
| 125° | 311.5 | 313.0 | 314.0 | 315.0 | 312.5 | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 |
| 127.5° | 342.5 | 345.0 | 345.5 | 346.0 | 346.0 | 346.0 | 345.5 | 345.0 | 347.0 | 345.0 | 345.5 |
| 130° | 374.5 | 377.0 | 379.0 | 381.0 | 381.0 | 381.0 | 380.0 | 379.0 | 380.0 | 379.0 | 380.0 |
| 132.5° | 408.0 | 411.0 | 413.5 | 416.0 | 415.0 | 414.0 | 414.0 | 414.0 | 415.0 | 414.0 | 414.0 |
| 135° | 440.0 | 443.0 | 445.5 | 448.0 | 447.5 | 447.0 | 448.5 | 450.0 | 451.0 | 450.0 | 448.5 |
| 137.5° | 470.5 | 473.0 | 474.0 | 475.0 | 475.5 | 476.0 | 478.5 | 481.0 | 482.0 | 481.0 | 478.5 |
| 140° | 498.5 | 500.0 | 501.0 | 502.0 | 503.0 | 504.0 | 506.5 | 509.0 | 511.0 | 509.0 | 506.5 |
| 142.5° | 526.0 | 527.0 | 530.0 | 533.0 | 533.0 | 533.0 | 533.5 | 534.0 | 536.0 | 534.0 | 533.5 |
| 145° | 553.5 | 556.0 | 559.0 | 562.0 | 561.5 | 561.0 | 559.5 | 558.0 | 560.0 | 558.0 | 559.5 |
| 147.5° | 577.5 | 580.0 | 582.5 | 585.0 | 585.5 | 586.0 | 584.5 | 583.0 | 585.0 | 583.0 | 584.5 |
| 150° | 595.0 | 597.0 | 598.5 | 600.0 | 601.5 | 603.0 | 604.5 | 606.0 | 610.0 | 606.0 | 604.5 |
| 152.5° | 610.5 | 611.0 | 612.5 | 614.0 | 616.0 | 618.0 | 620.5 | 623.0 | 628.0 | 623.0 | 620.5 |
| 155° | 627.0 | 626.0 | 628.5 | 631.0 | 633.5 | 636.0 | 637.0 | 638.0 | 641.0 | 638.0 | 637.0 |
| 157.5° | 644.5 | 644.0 | 646.0 | 648.0 | 649.0 | 650.0 | 650.0 | 650.0 | 655.0 | 650.0 | 650.0 |
| 160° | 656.5 | 658.0 | 661.0 | 664.0 | 662.5 | 661.0 | 660.5 | 660.0 | 666.0 | 660.0 | 660.5 |
| 162.5° | 665.0 | 667.0 | 669.0 | 671.0 | 670.5 | 670.0 | 669.0 | 668.0 | 674.0 | 668.0 | 669.0 |
| 165° | 672.5 | 672.0 | 674.5 | 677.0 | 678.5 | 680.0 | 679.0 | 678.0 | 682.0 | 678.0 | 679.0 |
| 167.5° | 681.5 | 678.0 | 681.0 | 684.0 | 686.0 | 688.0 | 688.0 | 688.0 | 694.0 | 688.0 | 688.0 |
| 170° | 688.5 | 686.0 | 687.5 | 689.0 | 691.5 | 694.0 | 695.0 | 696.0 | 701.0 | 696.0 | 695.0 |
| 172.5° | 689.5 | 689.0 | 690.5 | 692.0 | 693.0 | 694.0 | 695.0 | 696.0 | 701.0 | 696.0 | 695.0 |
| 175° | 690.0 | 690.0 | 692.5 | 695.0 | 695.5 | 696.0 | 695.0 | 694.0 | 699.0 | 694.0 | 695.0 |
| 177.5° | 694.5 | 694.0 | 696.5 | 699.0 | 700.0 | 701.0 | 699.5 | 698.0 | 702.0 | 698.0 | 699.5 |
| 180° | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 |



REPORT NUMBER: P227148

CATALOG NUMBER: ISW-AF-600-LED-E1-SLL-7050-ULG

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 |
| 2.5° | 1197.4 | 1195.0 | 1178.4 | 1150.4 | 1152.8 | 1139.8 | 1123.1 | 1096.4 | 1091.1 | 1076.2 | 1073.8 |
| 5° | 1089.3 | 1061.4 | 1025.1 | 981.2 | 964.5 | 942.0 | 918.8 | 902.2 | 881.4 | 862.4 | 887.9 |
| 7.5° | 944.9 | 904.0 | 861.8 | 815.5 | 788.7 | 751.9 | 732.3 | 694.3 | 666.4 | 661.0 | 639.1 |
| 10° | 824.4 | 772.7 | 724.6 | 683.0 | 633.1 | 598.7 | 573.7 | 553.0 | 533.9 | 510.8 | 496.5 |
| 12.5° | 744.2 | 686.0 | 634.9 | 583.2 | 559.5 | 531.0 | 515.5 | 495.9 | 468.6 | 449.0 | 430.0 |
| 15° | 708.0 | 645.0 | 589.2 | 544.0 | 509.6 | 482.9 | 455.5 | 431.8 | 402.1 | 380.1 | 358.1 |
| 17.5° | 703.2 | 621.3 | 550.6 | 500.1 | 462.7 | 433.6 | 397.3 | 365.9 | 329.6 | 305.3 | 286.9 |
| 20° | 708.6 | 603.4 | 514.9 | 449.0 | 411.0 | 359.9 | 326.1 | 287.5 | 251.8 | 219.8 | 190.7 |
| 22.5° | 729.9 | 593.9 | 479.9 | 407.4 | 351.0 | 292.8 | 256.6 | 207.3 | 177.0 | 146.1 | 134.8 |
| 25° | 759.0 | 588.0 | 449.6 | 361.7 | 290.4 | 232.8 | 183.5 | 142.5 | 128.9 | 121.2 | 117.0 |
| 27.5° | 789.9 | 577.3 | 415.8 | 319.5 | 241.7 | 171.6 | 137.2 | 120.0 | 114.6 | 110.5 | 107.5 |
| 30° | 813.1 | 556.5 | 374.2 | 274.4 | 192.4 | 146.7 | 122.4 | 111.1 | 107.5 | 102.8 | 99.8 |
| 32.5° | 823.2 | 524.4 | 336.8 | 231.6 | 162.1 | 125.9 | 106.9 | 100.4 | 96.8 | 92.7 | 90.9 |
| 35° | 821.4 | 488.2 | 317.8 | 215.0 | 148.5 | 111.7 | 93.8 | 89.7 | 84.9 | 80.8 | 76.6 |
| 37.5° | 823.2 | 455.0 | 302.9 | 210.8 | 142.5 | 101.0 | 85.5 | 82.6 | 79.0 | 74.8 | 71.3 |
| 40° | 830.3 | 436.5 | 295.8 | 201.9 | 137.8 | 96.8 | 79.0 | 76.0 | 75.4 | 70.7 | 67.7 |
| 42.5° | 833.3 | 438.3 | 292.2 | 189.5 | 125.9 | 95.6 | 79.0 | 72.5 | 72.5 | 68.9 | 65.3 |
| 45° | 829.7 | 451.4 | 294.6 | 182.3 | 117.0 | 89.7 | 83.2 | 72.5 | 70.7 | 67.7 | 64.1 |
| 47.5° | 840.4 | 460.9 | 294.6 | 181.1 | 111.1 | 83.7 | 79.0 | 79.6 | 71.9 | 68.3 | 63.0 |
| 50° | 884.4 | 469.8 | 288.7 | 179.4 | 109.3 | 77.8 | 74.8 | 78.4 | 80.8 | 69.5 | 63.6 |
| 52.5° | 962.2 | 481.1 | 282.1 | 176.4 | 106.9 | 73.1 | 69.5 | 73.6 | 82.6 | 73.1 | 63.6 |
| 55° | 1041.8 | 501.3 | 278.0 | 171.6 | 103.3 | 70.1 | 63.0 | 70.7 | 75.4 | 72.5 | 63.0 |
| 57.5° | 1126.7 | 523.3 | 273.8 | 160.4 | 95.0 | 67.1 | 60.6 | 61.8 | 67.7 | 70.1 | 61.2 |
| 59° | 1152.2 | 533.9 | 270.2 | 152.0 | 87.9 | 64.7 | 58.8 | 57.0 | 60.6 | 67.1 | 60.0 |
| 60° | 1170.6 | 534.5 | 266.1 | 144.9 | 83.7 | 63.6 | 57.6 | 55.2 | 56.4 | 68.9 | 60.6 |
| 62.5° | 1172.4 | 533.9 | 253.0 | 130.1 | 75.4 | 61.2 | 55.8 | 52.9 | 51.7 | 57.6 | 61.8 |
| 65° | 1098.8 | 509.0 | 229.3 | 122.4 | 76.0 | 58.8 | 52.9 | 50.5 | 48.1 | 49.3 | 53.5 |
| 67.5° | 961.0 | 444.9 | 204.3 | 124.1 | 80.2 | 57.0 | 50.5 | 48.1 | 46.3 | 45.1 | 46.9 |
| 70° | 727.0 | 369.4 | 197.2 | 128.3 | 83.7 | 55.8 | 46.9 | 44.5 | 43.4 | 42.8 | 42.8 |
| 72.5° | 503.7 | 304.1 | 189.5 | 131.3 | 86.7 | 55.2 | 43.4 | 41.0 | 40.4 | 39.8 | 39.8 |
| 75° | 324.3 | 220.9 | 156.8 | 111.7 | 79.0 | 50.5 | 39.2 | 36.8 | 36.2 | 35.6 | 36.2 |
| 77.5° | 191.8 | 154.4 | 115.2 | 78.4 | 57.6 | 40.4 | 33.9 | 32.1 | 32.1 | 32.1 | 32.7 |
| 80° | 106.3 | 91.5 | 76.6 | 50.5 | 41.0 | 30.3 | 27.9 | 26.1 | 26.1 | 26.7 | 27.9 |
| 82.5° | 63.6 | 50.5 | 43.4 | 32.1 | 27.9 | 21.4 | 20.8 | 19.6 | 20.2 | 20.8 | 22.0 |
| 85° | 41.6 | 32.1 | 26.1 | 21.4 | 19.0 | 13.7 | 11.9 | 12.5 | 13.1 | 14.3 | 14.8 |
| 87.5° | 23.2 | 17.8 | 14.3 | 12.5 | 11.3 | 5.9 | 4.8 | 4.8 | 5.9 | 7.1 | 8.3 |
| 90° | 9.0 | 9.0 | 9.0 | 8.0 | 7.0 | 7.0 | 7.0 | 7.5 | 8.0 | 8.0 | 8.0 |
| 92.5° | 6.0 | 6.5 | 7.0 | 7.0 | 7.0 | 6.5 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| 95° | 7.0 | 7.5 | 8.0 | 7.5 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 |
| 97.5° | 9.0 | 9.5 | 10.0 | 11.0 | 12.0 | 10.5 | 9.0 | 9.0 | 9.0 | 8.5 | 8.0 |
| 100° | 23.0 | 24.5 | 26.0 | 27.5 | 29.0 | 25.0 | 21.0 | 16.5 | 12.0 | 11.0 | 10.0 |
| 102.5° | 42.0 | 44.5 | 47.0 | 48.5 | 50.0 | 45.0 | 40.0 | 33.5 | 27.0 | 22.5 | 18.0 |
| 105° | 65.0 | 67.5 | 70.0 | 71.0 | 72.0 | 67.5 | 63.0 | 55.5 | 48.0 | 42.0 | 36.0 |
| 107.5° | 90.0 | 92.0 | 94.0 | 94.5 | 95.0 | 91.5 | 88.0 | 80.5 | 73.0 | 65.5 | 58.0 |



REPORT NUMBER: P227148
 CATALOG NUMBER: ISW-AF-600-LED-E1-SLL-7050-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 110° | 119.0 | 120.0 | 121.0 | 120.5 | 120.0 | 117.0 | 114.0 | 108.0 | 102.0 | 94.5 | 87.0 | 0° |
| 112.5° | 149.0 | 149.5 | 150.0 | 149.0 | 148.0 | 145.5 | 143.0 | 138.5 | 134.0 | 127.5 | 121.0 | 2.5° |
| 115° | 179.0 | 180.5 | 182.0 | 180.5 | 179.0 | 176.5 | 174.0 | 171.0 | 168.0 | 163.5 | 159.0 | 5° |
| 117.5° | 210.0 | 212.5 | 215.0 | 213.0 | 211.0 | 208.0 | 205.0 | 203.5 | 202.0 | 199.5 | 197.0 | 7.5° |
| 120° | 245.0 | 247.5 | 250.0 | 248.0 | 246.0 | 244.5 | 243.0 | 240.0 | 237.0 | 235.0 | 233.0 | 10° |
| 122.5° | 278.0 | 280.5 | 283.0 | 281.0 | 279.0 | 278.0 | 277.0 | 274.0 | 271.0 | 269.0 | 267.0 | 12.5° |
| 125° | 310.0 | 312.5 | 315.0 | 314.0 | 313.0 | 311.5 | 310.0 | 307.5 | 305.0 | 302.0 | 299.0 | 15° |
| 127.5° | 346.0 | 346.0 | 346.0 | 345.5 | 345.0 | 342.5 | 340.0 | 339.5 | 339.0 | 336.0 | 333.0 | 17.5° |
| 130° | 381.0 | 381.0 | 381.0 | 379.0 | 377.0 | 374.5 | 372.0 | 371.0 | 370.0 | 368.0 | 366.0 | 20° |
| 132.5° | 414.0 | 415.0 | 416.0 | 413.5 | 411.0 | 408.0 | 405.0 | 404.5 | 404.0 | 402.5 | 401.0 | 22.5° |
| 135° | 447.0 | 447.5 | 448.0 | 445.5 | 443.0 | 440.0 | 437.0 | 436.0 | 435.0 | 433.5 | 432.0 | 25° |
| 137.5° | 476.0 | 475.5 | 475.0 | 474.0 | 473.0 | 470.5 | 468.0 | 466.0 | 464.0 | 462.0 | 460.0 | 27.5° |
| 140° | 504.0 | 503.0 | 502.0 | 501.0 | 500.0 | 498.5 | 497.0 | 494.0 | 491.0 | 490.0 | 489.0 | 30° |
| 142.5° | 533.0 | 533.0 | 533.0 | 530.0 | 527.0 | 526.0 | 525.0 | 523.0 | 521.0 | 519.5 | 518.0 | 32.5° |
| 145° | 561.0 | 561.5 | 562.0 | 559.0 | 556.0 | 553.5 | 551.0 | 550.5 | 550.0 | 548.5 | 547.0 | 35° |
| 147.5° | 586.0 | 585.5 | 585.0 | 582.5 | 580.0 | 577.5 | 575.0 | 574.5 | 574.0 | 574.0 | 574.0 | 37.5° |
| 150° | 603.0 | 601.5 | 600.0 | 598.5 | 597.0 | 595.0 | 593.0 | 593.0 | 593.0 | 593.0 | 593.0 | 40° |
| 152.5° | 618.0 | 616.0 | 614.0 | 612.5 | 611.0 | 610.5 | 610.0 | 610.0 | 610.0 | 609.5 | 609.0 | 42.5° |
| 155° | 636.0 | 633.5 | 631.0 | 628.5 | 626.0 | 627.0 | 628.0 | 629.0 | 630.0 | 628.5 | 627.0 | 45° |
| 157.5° | 650.0 | 649.0 | 648.0 | 646.0 | 644.0 | 644.5 | 645.0 | 645.5 | 646.0 | 645.0 | 644.0 | 47.5° |
| 160° | 661.0 | 662.5 | 664.0 | 661.0 | 658.0 | 656.5 | 655.0 | 655.0 | 655.0 | 655.5 | 656.0 | 50° |
| 162.5° | 670.0 | 670.5 | 671.0 | 669.0 | 667.0 | 665.0 | 663.0 | 662.0 | 661.0 | 663.0 | 665.0 | 52.5° |
| 165° | 680.0 | 678.5 | 677.0 | 674.5 | 672.0 | 672.5 | 673.0 | 673.0 | 673.0 | 674.5 | 676.0 | 55° |
| 167.5° | 688.0 | 686.0 | 684.0 | 681.0 | 678.0 | 681.5 | 685.0 | 686.5 | 688.0 | 687.0 | 686.0 | 57.5° |
| 170° | 694.0 | 691.5 | 689.0 | 687.5 | 686.0 | 688.5 | 691.0 | 692.0 | 693.0 | 692.5 | 692.0 | 59° |
| 172.5° | 694.0 | 693.0 | 692.0 | 690.5 | 689.0 | 689.5 | 690.0 | 690.0 | 690.0 | 691.5 | 693.0 | 60° |
| 175° | 696.0 | 695.5 | 695.0 | 692.5 | 690.0 | 690.0 | 690.0 | 690.5 | 691.0 | 693.0 | 695.0 | 62.5° |
| 177.5° | 701.0 | 700.0 | 699.0 | 696.5 | 694.0 | 694.5 | 695.0 | 696.0 | 697.0 | 698.0 | 699.0 | 65° |
| 180° | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 67.5° |
| | | | | | | | | | | | | 70° |
| | | | | | | | | | | | | 72.5° |
| | | | | | | | | | | | | 75° |
| | | | | | | | | | | | | 77.5° |
| | | | | | | | | | | | | 80° |
| | | | | | | | | | | | | 82.5° |
| | | | | | | | | | | | | 85° |
| | | | | | | | | | | | | 87.5° |
| | | | | | | | | | | | | 90° |
| | | | | | | | | | | | | 92.5° |
| | | | | | | | | | | | | 95° |
| | | | | | | | | | | | | 97.5° |
| | | | | | | | | | | | | 100° |
| | | | | | | | | | | | | 102.5° |
| | | | | | | | | | | | | 105° |
| | | | | | | | | | | | | 107.5° |



NUMBER: P227148
 NUMBER: ISW-AF-600-LED-E1-SLL-7050-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

| 160° | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 110° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 110° | 80.5 |
| 1082.1 | 1064.9 | 1046.5 | 1032.9 | 1038.8 | 1019.2 | 1021.0 | 1015.6 | 1013.3 | 1012.1 | 999.6 | 112.5° | 113.5 |
| 857.0 | 863.6 | 836.3 | 839.2 | 847.5 | 827.3 | 813.7 | 836.3 | 833.3 | 813.1 | 824.4 | 115° | 153.0 |
| 617.7 | 619.5 | 607.0 | 579.1 | 579.1 | 593.9 | 599.3 | 610.0 | 617.1 | 642.0 | 626.6 | 117.5° | 193.0 |
| 472.2 | 455.5 | 443.1 | 430.6 | 423.5 | 408.6 | 412.2 | 425.3 | 433.6 | 447.8 | 459.1 | 120° | 229.5 |
| 410.4 | 392.0 | 370.0 | 351.0 | 340.9 | 327.3 | 318.3 | 315.4 | 318.3 | 309.4 | 310.0 | 122.5° | 264.0 |
| 340.9 | 324.3 | 299.9 | 289.8 | 270.8 | 260.1 | 254.2 | 246.5 | 240.5 | 228.1 | 222.7 | 125° | 297.5 |
| 264.3 | 242.3 | 217.4 | 217.4 | 203.7 | 194.8 | 192.4 | 190.7 | 187.1 | 180.6 | 174.0 | 127.5° | 331.0 |
| 175.8 | 161.6 | 147.3 | 140.2 | 141.4 | 140.2 | 136.6 | 142.5 | 142.5 | 144.9 | 143.7 | 130° | 364.0 |
| 128.3 | 125.9 | 120.6 | 116.4 | 114.0 | 113.4 | 114.0 | 115.8 | 119.4 | 122.4 | 125.3 | 132.5° | 397.0 |
| 115.2 | 114.0 | 109.3 | 105.1 | 104.5 | 103.3 | 103.3 | 105.1 | 105.7 | 106.3 | 105.7 | 135° | 429.0 |
| 106.9 | 104.5 | 100.4 | 97.4 | 96.2 | 95.6 | 96.2 | 94.4 | 93.2 | 93.8 | 93.2 | 137.5° | 459.5 |
| 96.8 | 95.0 | 90.9 | 88.5 | 87.9 | 87.9 | 86.1 | 85.5 | 84.3 | 84.9 | 84.3 | 140° | 488.0 |
| 89.1 | 86.7 | 82.6 | 79.6 | 79.6 | 79.0 | 79.6 | 79.0 | 78.4 | 77.8 | 77.8 | 142.5° | 517.5 |
| 74.8 | 74.2 | 70.1 | 68.9 | 69.5 | 71.3 | 71.3 | 71.3 | 71.9 | 71.3 | 71.3 | 145° | 545.5 |
| 69.5 | 68.9 | 64.7 | 61.8 | 61.2 | 61.2 | 61.2 | 62.4 | 64.1 | 64.7 | 65.9 | 147.5° | 572.5 |
| 65.9 | 65.3 | 61.2 | 58.8 | 57.6 | 57.0 | 56.4 | 56.4 | 57.0 | 59.4 | 61.2 | 150° | 593.0 |
| 63.6 | 62.4 | 58.2 | 55.2 | 54.6 | 54.0 | 53.5 | 53.5 | 53.5 | 54.0 | 55.8 | 152.5° | 608.5 |
| 62.4 | 60.6 | 55.8 | 52.9 | 51.7 | 51.1 | 51.1 | 51.7 | 51.1 | 51.1 | 51.1 | 155° | 626.0 |
| 60.6 | 59.4 | 54.6 | 51.1 | 49.9 | 49.9 | 49.3 | 49.3 | 49.3 | 48.1 | 48.1 | 157.5° | 643.5 |
| 60.0 | 58.2 | 53.5 | 49.9 | 48.7 | 48.1 | 47.5 | 48.1 | 46.9 | 46.3 | 45.7 | 160° | 657.5 |
| 58.8 | 56.4 | 51.1 | 48.1 | 47.5 | 46.3 | 45.7 | 45.7 | 45.7 | 44.5 | 44.5 | 162.5° | 667.0 |
| 58.2 | 55.2 | 49.9 | 46.9 | 45.7 | 44.5 | 44.0 | 44.0 | 45.1 | 44.0 | 44.0 | 165° | 676.0 |
| 57.6 | 53.5 | 48.1 | 44.5 | 44.0 | 42.8 | 42.2 | 42.8 | 44.5 | 43.4 | 42.8 | 167.5° | 685.0 |
| 55.2 | 52.3 | 46.9 | 44.0 | 42.8 | 41.6 | 41.0 | 41.6 | 42.8 | 42.8 | 42.8 | 170° | 692.0 |
| 54.0 | 51.1 | 45.7 | 42.8 | 42.2 | 41.0 | 40.4 | 40.4 | 42.2 | 42.2 | 41.6 | 172.5° | 694.0 |
| 52.3 | 49.9 | 44.5 | 41.0 | 39.8 | 39.8 | 39.2 | 39.2 | 39.8 | 39.8 | 40.4 | 175° | 696.0 |
| 49.9 | 48.7 | 43.4 | 39.2 | 38.6 | 38.0 | 38.0 | 38.0 | 38.0 | 39.2 | 39.2 | 177.5° | 699.5 |
| 47.5 | 46.9 | 41.6 | 38.0 | 36.8 | 36.8 | 36.8 | 36.8 | 36.8 | 37.4 | 38.0 | 180° | 700.0 |
| 44.0 | 44.0 | 39.2 | 35.6 | 35.0 | 34.4 | 34.4 | 34.4 | 34.4 | 35.0 | 35.6 | | |
| 40.4 | 41.0 | 36.2 | 32.7 | 32.1 | 32.1 | 32.1 | 32.1 | 32.7 | 32.7 | 33.3 | | |
| 36.8 | 37.4 | 32.7 | 29.1 | 29.1 | 29.1 | 29.1 | 29.1 | 29.1 | 29.1 | 30.3 | | |
| 33.3 | 33.3 | 27.9 | 24.4 | 24.9 | 25.5 | 26.1 | 25.5 | 25.5 | 26.1 | 27.9 | | |
| 28.5 | 27.9 | 23.2 | 20.2 | 20.2 | 21.4 | 22.0 | 21.4 | 22.0 | 22.0 | 24.4 | | |
| 22.6 | 22.6 | 17.8 | 14.8 | 14.8 | 17.2 | 17.2 | 17.2 | 17.8 | 18.4 | 20.2 | | |
| 17.2 | 16.6 | 12.5 | 10.1 | 10.1 | 11.9 | 12.5 | 13.1 | 13.7 | 14.3 | 15.4 | | |
| 10.1 | 10.1 | 6.5 | 4.2 | 4.8 | 5.3 | 7.1 | 7.1 | 7.1 | 8.3 | 10.1 | | |
| 7.5 | 7.6 | 6.0 | 5.0 | 5.0 | 5.0 | 6.0 | 7.0 | 7.5 | 8.0 | 8.0 | | |
| 5.5 | 5.0 | 4.5 | 4.0 | 4.0 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.0 | | |
| 6.5 | 6.0 | 5.5 | 5.0 | 5.0 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.0 | | |
| 8.0 | 8.0 | 7.5 | 7.0 | 7.0 | 7.0 | 7.5 | 8.0 | 8.0 | 8.0 | 8.5 | | |
| 9.5 | 9.0 | 8.5 | 8.0 | 8.0 | 8.0 | 8.5 | 9.0 | 9.5 | 10.0 | 11.0 | | |
| 15.5 | 13.0 | 12.0 | 11.0 | 11.0 | 11.0 | 12.0 | 13.0 | 15.5 | 18.0 | 22.5 | | |
| 31.5 | 27.0 | 24.5 | 22.0 | 21.0 | 22.0 | 24.5 | 27.0 | 31.5 | 36.0 | 42.0 | | |
| 53.5 | 49.0 | 45.5 | 42.0 | 41.0 | 42.0 | 45.5 | 49.0 | 53.5 | 58.0 | 65.5 | | |

'227148
 ISW-AF-600-LED-E1-SLL-7050-ULG

REPORT NUMBER: P227148
 CATALOG NUMBER: ISW-AF-60

TION (continued):

CANDELA DISTRIBUTION (con

| 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | | 215° | 220° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 74.0 | 71.0 | 68.0 | 66.0 | 68.0 | 71.0 | 74.0 | 80.5 | 87.0 | 94.5 | 0° | 1165.9 | 1165.9 |
| 106.0 | 102.5 | 99.0 | 99.0 | 99.0 | 102.5 | 106.0 | 113.5 | 121.0 | 127.5 | 2.5° | 1010.3 | 1009.7 |
| 147.0 | 143.0 | 139.0 | 140.0 | 139.0 | 143.0 | 147.0 | 153.0 | 159.0 | 163.5 | 5° | 829.1 | 823.8 |
| 189.0 | 186.5 | 184.0 | 184.0 | 184.0 | 186.5 | 189.0 | 193.0 | 197.0 | 199.5 | 7.5° | 642.6 | 662.2 |
| 226.0 | 224.5 | 223.0 | 225.0 | 223.0 | 224.5 | 226.0 | 229.5 | 233.0 | 235.0 | 10° | 463.3 | 476.9 |
| 261.0 | 260.5 | 260.0 | 263.0 | 260.0 | 260.5 | 261.0 | 264.0 | 267.0 | 269.0 | 12.5° | 322.5 | 329.6 |
| 296.0 | 295.0 | 294.0 | 298.0 | 294.0 | 295.0 | 296.0 | 297.5 | 299.0 | 302.0 | 15° | 222.1 | 236.4 |
| 329.0 | 329.0 | 329.0 | 330.0 | 329.0 | 329.0 | 329.0 | 331.0 | 333.0 | 336.0 | 17.5° | 172.8 | 174.6 |
| 362.0 | 361.5 | 361.0 | 363.0 | 361.0 | 361.5 | 362.0 | 364.0 | 366.0 | 368.0 | 20° | 142.5 | 143.7 |
| 393.0 | 393.5 | 394.0 | 396.0 | 394.0 | 393.5 | 393.0 | 397.0 | 401.0 | 402.5 | 22.5° | 126.5 | 128.9 |
| 426.0 | 426.0 | 426.0 | 429.0 | 426.0 | 426.0 | 426.0 | 429.0 | 432.0 | 433.5 | 25° | 106.3 | 108.7 |
| 459.0 | 458.0 | 457.0 | 460.0 | 457.0 | 458.0 | 459.0 | 459.5 | 460.0 | 462.0 | 27.5° | 93.8 | 96.2 |
| 487.0 | 486.0 | 485.0 | 488.0 | 485.0 | 486.0 | 487.0 | 488.0 | 489.0 | 490.0 | 30° | 86.1 | 87.3 |
| 517.0 | 516.0 | 515.0 | 518.0 | 515.0 | 516.0 | 517.0 | 517.5 | 518.0 | 519.5 | 32.5° | 78.4 | 78.4 |
| 544.0 | 545.0 | 546.0 | 550.0 | 546.0 | 545.0 | 544.0 | 545.5 | 547.0 | 548.5 | 35° | 71.9 | 72.5 |
| 571.0 | 571.5 | 572.0 | 575.0 | 572.0 | 571.5 | 571.0 | 572.5 | 574.0 | 574.0 | 37.5° | 67.1 | 68.3 |
| 593.0 | 592.5 | 592.0 | 595.0 | 592.0 | 592.5 | 593.0 | 593.0 | 593.0 | 593.0 | 40° | 63.0 | 63.6 |
| 608.0 | 608.0 | 608.0 | 611.0 | 608.0 | 608.0 | 608.0 | 608.5 | 609.0 | 609.5 | 42.5° | 57.0 | 58.2 |
| 625.0 | 625.0 | 625.0 | 629.0 | 625.0 | 625.0 | 625.0 | 626.0 | 627.0 | 628.5 | 45° | 51.7 | 52.3 |
| 643.0 | 643.0 | 643.0 | 646.0 | 643.0 | 643.0 | 643.0 | 643.5 | 644.0 | 645.0 | 47.5° | 48.1 | 48.1 |
| 659.0 | 659.5 | 660.0 | 663.0 | 660.0 | 659.5 | 659.0 | 657.5 | 656.0 | 655.5 | 50° | 45.7 | 46.3 |
| 669.0 | 669.0 | 669.0 | 673.0 | 669.0 | 669.0 | 669.0 | 667.0 | 665.0 | 663.0 | 52.5° | 44.5 | 45.1 |
| 676.0 | 677.0 | 678.0 | 681.0 | 678.0 | 677.0 | 676.0 | 676.0 | 676.0 | 674.5 | 55° | 44.0 | 45.1 |
| 684.0 | 685.5 | 687.0 | 690.0 | 687.0 | 685.5 | 684.0 | 685.0 | 686.0 | 687.0 | 57.5° | 44.0 | 44.5 |
| 692.0 | 693.5 | 695.0 | 698.0 | 695.0 | 693.5 | 692.0 | 692.0 | 692.0 | 692.5 | 59° | 43.4 | 44.0 |
| 695.0 | 696.0 | 697.0 | 699.0 | 697.0 | 696.0 | 695.0 | 694.0 | 693.0 | 691.5 | 60° | 43.4 | 44.5 |
| 697.0 | 697.5 | 698.0 | 700.0 | 698.0 | 697.5 | 697.0 | 696.0 | 695.0 | 693.0 | 62.5° | 41.6 | 42.8 |
| 700.0 | 702.5 | 705.0 | 707.0 | 705.0 | 702.5 | 700.0 | 699.5 | 699.0 | 698.0 | 65° | 40.4 | 41.6 |
| 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 67.5° | 38.6 | 40.4 |
| | | | | | | | | | | 70° | 36.8 | 38.6 |
| | | | | | | | | | | 72.5° | 34.4 | 36.8 |
| | | | | | | | | | | 75° | 32.1 | 33.9 |
| | | | | | | | | | | 77.5° | 29.1 | 30.9 |
| | | | | | | | | | | 80° | 25.5 | 26.1 |
| | | | | | | | | | | 82.5° | 21.4 | 21.4 |
| | | | | | | | | | | 85° | 16.0 | 14.3 |
| | | | | | | | | | | 87.5° | 8.9 | 9.5 |
| | | | | | | | | | | 90° | 8.0 | 7.5 |
| | | | | | | | | | | 92.5° | 6.0 | 6.0 |
| | | | | | | | | | | 95° | 7.0 | 7.0 |
| | | | | | | | | | | 97.5° | 9.0 | 9.0 |
| | | | | | | | | | | 100° | 12.0 | 16.5 |
| | | | | | | | | | | 102.5° | 27.0 | 33.5 |
| | | | | | | | | | | 105° | 48.0 | 55.5 |
| | | | | | | | | | | 107.5° | 73.0 | 80.5 |



REPORT NUMBER: P227148

CATALOG NUMBER: ISW-AF-600-LED-E1-

00-LED-E1-SLL-7050-ULG

tinued):

CANDELA DISTRIBUTION (continued):

| 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | | 215° | 220° | 225° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 110° | 102.0 | 108.0 | 114.0 |
| 997.2 | 997.2 | 1015.0 | 1016.8 | 996.0 | 1001.4 | 1011.5 | 999.6 | 1012.7 | 112.5° | 134.0 | 138.5 | 143.0 |
| 836.9 | 829.7 | 830.3 | 825.6 | 833.9 | 824.4 | 834.5 | 830.9 | 827.9 | 115° | 168.0 | 171.0 | 174.0 |
| 649.8 | 662.2 | 653.3 | 636.1 | 649.8 | 639.1 | 618.9 | 620.7 | 598.1 | 117.5° | 202.0 | 203.5 | 205.0 |
| 488.2 | 479.3 | 474.6 | 466.2 | 444.3 | 448.4 | 425.9 | 429.4 | 437.1 | 120° | 237.0 | 240.0 | 243.0 |
| 336.8 | 330.2 | 337.9 | 332.6 | 323.7 | 325.5 | 330.2 | 335.0 | 347.5 | 122.5° | 271.0 | 274.0 | 277.0 |
| 236.4 | 233.4 | 231.6 | 235.2 | 245.3 | 250.6 | 258.4 | 272.6 | 279.7 | 125° | 305.0 | 307.5 | 310.0 |
| 177.6 | 178.2 | 176.4 | 181.7 | 190.1 | 194.2 | 196.0 | 197.2 | 205.5 | 127.5° | 339.0 | 339.5 | 340.0 |
| 146.7 | 149.1 | 148.5 | 150.3 | 147.9 | 145.5 | 147.3 | 143.7 | 140.8 | 130° | 370.0 | 371.0 | 372.0 |
| 128.3 | 128.9 | 125.9 | 125.3 | 121.8 | 118.8 | 116.4 | 116.4 | 115.2 | 132.5° | 404.0 | 404.5 | 405.0 |
| 108.7 | 109.3 | 106.3 | 106.3 | 105.7 | 107.5 | 106.3 | 103.9 | 103.3 | 135° | 435.0 | 436.0 | 437.0 |
| 97.4 | 96.2 | 94.4 | 94.4 | 93.2 | 93.2 | 93.8 | 94.4 | 93.8 | 137.5° | 464.0 | 466.0 | 468.0 |
| 87.3 | 86.1 | 85.5 | 86.1 | 85.5 | 86.1 | 86.7 | 86.1 | 86.7 | 140° | 491.0 | 494.0 | 497.0 |
| 80.2 | 79.0 | 79.0 | 79.6 | 79.0 | 79.6 | 79.6 | 79.6 | 79.0 | 142.5° | 521.0 | 523.0 | 525.0 |
| 74.2 | 73.1 | 73.1 | 73.1 | 72.5 | 71.3 | 70.1 | 68.3 | 66.5 | 145° | 550.0 | 550.5 | 551.0 |
| 69.5 | 68.9 | 67.7 | 67.1 | 65.3 | 61.8 | 60.6 | 60.6 | 60.6 | 147.5° | 574.0 | 574.5 | 575.0 |
| 65.3 | 64.1 | 63.6 | 61.2 | 58.8 | 57.6 | 57.6 | 57.6 | 57.6 | 150° | 593.0 | 593.0 | 593.0 |
| 60.0 | 58.2 | 57.0 | 56.4 | 55.8 | 55.8 | 55.2 | 55.2 | 55.2 | 152.5° | 610.0 | 610.0 | 610.0 |
| 53.5 | 52.9 | 52.9 | 53.5 | 53.5 | 53.5 | 53.5 | 52.9 | 53.5 | 155° | 630.0 | 629.0 | 628.0 |
| 49.3 | 49.3 | 49.9 | 50.5 | 51.1 | 51.7 | 52.3 | 51.7 | 52.3 | 157.5° | 646.0 | 645.5 | 645.0 |
| 47.5 | 47.5 | 47.5 | 48.7 | 49.3 | 49.9 | 51.1 | 51.1 | 51.1 | 160° | 655.0 | 655.0 | 655.0 |
| 46.3 | 46.3 | 46.9 | 47.5 | 48.1 | 48.7 | 49.3 | 49.9 | 50.5 | 162.5° | 661.0 | 662.0 | 663.0 |
| 45.7 | 46.3 | 45.7 | 46.3 | 46.9 | 48.1 | 48.7 | 48.7 | 49.3 | 165° | 673.0 | 673.0 | 673.0 |
| 45.7 | 45.7 | 45.7 | 45.7 | 46.9 | 47.5 | 46.9 | 47.5 | 48.1 | 167.5° | 688.0 | 686.5 | 685.0 |
| 45.7 | 45.7 | 45.1 | 45.7 | 46.3 | 46.9 | 46.3 | 46.3 | 47.5 | 170° | 693.0 | 692.0 | 691.0 |
| 45.1 | 45.7 | 45.1 | 45.1 | 45.7 | 46.3 | 45.7 | 46.3 | 46.9 | 172.5° | 690.0 | 690.0 | 690.0 |
| 44.0 | 44.5 | 44.0 | 44.5 | 44.5 | 45.1 | 45.1 | 45.1 | 45.7 | 175° | 691.0 | 690.5 | 690.0 |
| 42.8 | 42.8 | 42.8 | 43.4 | 43.4 | 44.0 | 44.0 | 44.5 | 44.0 | 177.5° | 697.0 | 696.0 | 695.0 |
| 41.6 | 41.6 | 41.6 | 42.2 | 42.2 | 42.8 | 43.4 | 42.8 | 42.8 | 180° | 700.0 | 700.0 | 700.0 |
| 40.4 | 39.8 | 39.2 | 39.8 | 40.4 | 40.4 | 41.0 | 40.4 | 41.0 | | | | |
| 38.6 | 38.0 | 37.4 | 37.4 | 38.0 | 38.0 | 38.6 | 38.0 | 38.0 | | | | |
| 35.6 | 35.6 | 34.4 | 34.4 | 34.4 | 34.4 | 35.0 | 34.4 | 33.9 | | | | |
| 32.1 | 32.1 | 30.9 | 30.9 | 30.9 | 30.9 | 30.3 | 30.3 | 30.3 | | | | |
| 26.7 | 27.3 | 27.3 | 26.7 | 26.7 | 26.1 | 26.1 | 25.5 | 24.9 | | | | |
| 20.2 | 21.4 | 22.0 | 22.0 | 22.0 | 22.0 | 22.0 | 20.8 | 19.6 | | | | |
| 14.3 | 16.0 | 17.8 | 17.8 | 17.2 | 17.2 | 17.2 | 15.4 | 13.7 | | | | |
| 8.9 | 10.7 | 11.3 | 12.5 | 10.7 | 10.1 | 10.1 | 8.9 | 8.3 | | | | |
| 7.0 | 7.0 | 8.2 | 8.6 | 10.8 | 10.8 | 11.4 | 9.2 | 7.6 | | | | |
| 6.0 | 6.5 | 7.0 | 7.0 | 7.0 | 6.5 | 6.0 | 6.0 | 6.0 | | | | |
| 7.0 | 7.0 | 7.0 | 7.5 | 8.0 | 7.5 | 7.0 | 7.0 | 7.0 | | | | |
| 9.0 | 10.5 | 12.0 | 11.0 | 10.0 | 9.5 | 9.0 | 8.5 | 8.0 | | | | |
| 21.0 | 25.0 | 29.0 | 27.5 | 26.0 | 24.5 | 23.0 | 21.0 | 19.0 | | | | |
| 40.0 | 45.0 | 50.0 | 48.5 | 47.0 | 44.5 | 42.0 | 40.5 | 39.0 | | | | |
| 63.0 | 67.5 | 72.0 | 71.0 | 70.0 | 67.5 | 65.0 | 63.0 | 61.0 | | | | |
| 88.0 | 91.5 | 95.0 | 94.5 | 94.0 | 92.0 | 90.0 | 88.5 | 87.0 | | | | |



REPORT NUMBER: P227148

CATALOG NUMBER: ISW-AF-600-LED-E1-SLL-7050-

SLL-7050-ULG

CANDELA DISTRIBUTION (continued):

| 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | | 270° | 275° | 280° | 285° |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 117.0 | 120.0 | 120.5 | 121.0 | 120.0 | 119.0 | 117.5 | 116.0 | 0° | 1165.9 | 1165.9 | 1165.9 | 1165.9 |
| 145.5 | 148.0 | 149.0 | 150.0 | 149.5 | 149.0 | 148.0 | 147.0 | 2.5° | 1001.4 | 1023.3 | 1026.3 | 1029.3 |
| 176.5 | 179.0 | 180.5 | 182.0 | 180.5 | 179.0 | 178.0 | 177.0 | 5° | 823.2 | 845.2 | 832.7 | 838.0 |
| 208.0 | 211.0 | 213.0 | 215.0 | 212.5 | 210.0 | 209.0 | 208.0 | 7.5° | 601.1 | 586.8 | 605.2 | 616.5 |
| 244.5 | 246.0 | 248.0 | 250.0 | 247.5 | 245.0 | 244.0 | 243.0 | 10° | 438.9 | 455.5 | 462.7 | 475.7 |
| 278.0 | 279.0 | 281.0 | 283.0 | 280.5 | 278.0 | 277.0 | 276.0 | 12.5° | 364.1 | 374.8 | 387.8 | 408.6 |
| 311.5 | 313.0 | 314.0 | 315.0 | 312.5 | 310.0 | 310.0 | 310.0 | 15° | 295.2 | 302.9 | 319.5 | 339.7 |
| 342.5 | 345.0 | 345.5 | 346.0 | 346.0 | 346.0 | 345.5 | 345.0 | 17.5° | 215.0 | 226.3 | 237.0 | 253.6 |
| 374.5 | 377.0 | 379.0 | 381.0 | 381.0 | 381.0 | 380.0 | 379.0 | 20° | 144.3 | 149.1 | 162.1 | 169.9 |
| 408.0 | 411.0 | 413.5 | 416.0 | 415.0 | 414.0 | 414.0 | 414.0 | 22.5° | 115.8 | 117.6 | 120.0 | 126.5 |
| 440.0 | 443.0 | 445.5 | 448.0 | 447.5 | 447.0 | 448.5 | 450.0 | 25° | 103.9 | 105.1 | 106.9 | 109.3 |
| 470.5 | 473.0 | 474.0 | 475.0 | 475.5 | 476.0 | 478.5 | 481.0 | 27.5° | 94.4 | 95.0 | 96.8 | 98.0 |
| 498.5 | 500.0 | 501.0 | 502.0 | 503.0 | 504.0 | 506.5 | 509.0 | 30° | 86.1 | 85.5 | 86.1 | 87.9 |
| 526.0 | 527.0 | 530.0 | 533.0 | 533.0 | 533.0 | 533.5 | 534.0 | 32.5° | 77.2 | 77.2 | 78.4 | 78.4 |
| 553.5 | 556.0 | 559.0 | 562.0 | 561.5 | 561.0 | 559.5 | 558.0 | 35° | 66.5 | 65.9 | 67.1 | 68.9 |
| 577.5 | 580.0 | 582.5 | 585.0 | 585.5 | 586.0 | 584.5 | 583.0 | 37.5° | 61.2 | 61.8 | 63.0 | 64.1 |
| 595.0 | 597.0 | 598.5 | 600.0 | 601.5 | 603.0 | 604.5 | 606.0 | 40° | 58.2 | 58.8 | 60.0 | 61.2 |
| 610.5 | 611.0 | 612.5 | 614.0 | 616.0 | 618.0 | 620.5 | 623.0 | 42.5° | 55.2 | 56.4 | 57.6 | 59.4 |
| 627.0 | 626.0 | 628.5 | 631.0 | 633.5 | 636.0 | 637.0 | 638.0 | 45° | 53.5 | 54.6 | 56.4 | 58.2 |
| 644.5 | 644.0 | 646.0 | 648.0 | 649.0 | 650.0 | 650.0 | 650.0 | 47.5° | 52.9 | 54.0 | 55.8 | 58.2 |
| 656.5 | 658.0 | 661.0 | 664.0 | 662.5 | 661.0 | 660.5 | 660.0 | 50° | 51.7 | 53.5 | 55.2 | 57.6 |
| 665.0 | 667.0 | 669.0 | 671.0 | 670.5 | 670.0 | 669.0 | 668.0 | 52.5° | 51.7 | 52.9 | 54.6 | 57.6 |
| 672.5 | 672.0 | 674.5 | 677.0 | 678.5 | 680.0 | 679.0 | 678.0 | 55° | 49.9 | 51.7 | 53.5 | 56.4 |
| 681.5 | 678.0 | 681.0 | 684.0 | 686.0 | 688.0 | 688.0 | 688.0 | 57.5° | 48.7 | 49.9 | 52.3 | 55.8 |
| 688.5 | 686.0 | 687.5 | 689.0 | 691.5 | 694.0 | 695.0 | 696.0 | 59° | 48.1 | 49.3 | 51.7 | 55.2 |
| 689.5 | 689.0 | 690.5 | 692.0 | 693.0 | 694.0 | 695.0 | 696.0 | 60° | 46.9 | 48.7 | 51.1 | 54.6 |
| 690.0 | 690.0 | 692.5 | 695.0 | 695.5 | 696.0 | 695.0 | 694.0 | 62.5° | 45.7 | 47.5 | 49.9 | 53.5 |
| 694.5 | 694.0 | 696.5 | 699.0 | 700.0 | 701.0 | 699.5 | 698.0 | 65° | 44.0 | 46.3 | 48.7 | 51.1 |
| 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 67.5° | 42.8 | 44.0 | 46.3 | 48.7 |
| | | | | | | | | 70° | 40.4 | 41.6 | 43.4 | 45.1 |
| | | | | | | | | 72.5° | 37.4 | 38.0 | 39.2 | 41.0 |
| | | | | | | | | 75° | 33.3 | 33.9 | 34.4 | 36.2 |
| | | | | | | | | 77.5° | 29.1 | 29.1 | 29.7 | 32.1 |
| | | | | | | | | 80° | 24.4 | 24.4 | 24.9 | 26.1 |
| | | | | | | | | 82.5° | 18.4 | 18.4 | 19.6 | 21.4 |
| | | | | | | | | 85° | 13.1 | 12.5 | 14.3 | 15.4 |
| | | | | | | | | 87.5° | 7.7 | 7.1 | 7.7 | 7.7 |
| | | | | | | | | 90° | 7.6 | 8.8 | 9.2 | 10.2 |
| | | | | | | | | 92.5° | 6.0 | 6.0 | 6.0 | 6.0 |
| | | | | | | | | 95° | 7.0 | 7.0 | 7.0 | 7.0 |
| | | | | | | | | 97.5° | 8.0 | 8.0 | 8.5 | 9.0 |
| | | | | | | | | 100° | 19.0 | 19.0 | 21.0 | 23.0 |
| | | | | | | | | 102.5° | 38.0 | 39.0 | 40.5 | 42.0 |
| | | | | | | | | 105° | 61.0 | 61.0 | 63.0 | 65.0 |
| | | | | | | | | 107.5° | 86.0 | 87.0 | 88.5 | 90.0 |



REPORT NUMBER: P227148

CATALOG NUMBER: ISW-AF-600-LED-E1-SLL-7050-ULG

ULG

CANDELA DISTRIBUTION (continued):

| 290° | 295° | 300° | 305° | 310° | 315° | 320° | | 270° | 275° | 280° | 285° | 290° |
|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 110° | 117.0 | 116.0 | 117.5 | 119.0 | 120.0 |
| 1041.2 | 1035.2 | 1040.0 | 1058.4 | 1064.9 | 1073.2 | 1101.2 | 112.5° | 147.0 | 147.0 | 148.0 | 149.0 | 149.5 |
| 851.1 | 858.8 | 851.1 | 888.5 | 890.3 | 915.3 | 925.3 | 115° | 178.0 | 177.0 | 178.0 | 179.0 | 180.5 |
| 625.4 | 635.5 | 652.1 | 677.1 | 684.2 | 719.8 | 750.1 | 117.5° | 209.0 | 208.0 | 209.0 | 210.0 | 212.5 |
| 488.2 | 501.3 | 524.4 | 539.9 | 555.3 | 576.1 | 600.5 | 120° | 243.0 | 243.0 | 244.0 | 245.0 | 247.5 |
| 433.6 | 447.2 | 467.4 | 487.0 | 509.0 | 525.0 | 545.2 | 122.5° | 277.0 | 276.0 | 277.0 | 278.0 | 280.5 |
| 362.3 | 383.7 | 403.3 | 428.8 | 447.2 | 476.3 | 500.1 | 125° | 310.0 | 310.0 | 310.0 | 310.0 | 312.5 |
| 276.8 | 306.5 | 326.1 | 357.0 | 384.9 | 410.4 | 442.5 | 127.5° | 347.0 | 345.0 | 345.5 | 346.0 | 346.0 |
| 192.4 | 215.6 | 240.5 | 273.8 | 310.0 | 345.1 | 387.8 | 130° | 380.0 | 379.0 | 380.0 | 381.0 | 381.0 |
| 132.4 | 144.9 | 163.9 | 198.4 | 235.8 | 286.3 | 332.6 | 132.5° | 415.0 | 414.0 | 414.0 | 414.0 | 415.0 |
| 112.8 | 117.6 | 124.7 | 141.4 | 172.8 | 228.1 | 279.1 | 135° | 451.0 | 450.0 | 448.5 | 447.0 | 447.5 |
| 100.4 | 103.9 | 108.7 | 117.0 | 133.6 | 171.6 | 228.1 | 137.5° | 482.0 | 481.0 | 478.5 | 476.0 | 475.5 |
| 92.1 | 96.2 | 101.0 | 106.9 | 115.8 | 142.0 | 184.1 | 140° | 511.0 | 509.0 | 506.5 | 504.0 | 503.0 |
| 80.8 | 83.7 | 87.9 | 94.4 | 101.0 | 121.8 | 162.7 | 142.5° | 536.0 | 534.0 | 533.5 | 533.0 | 533.0 |
| 71.3 | 74.8 | 80.2 | 84.9 | 91.5 | 108.1 | 147.9 | 145° | 560.0 | 558.0 | 559.5 | 561.0 | 561.5 |
| 66.5 | 70.1 | 74.8 | 79.0 | 83.7 | 97.4 | 137.2 | 147.5° | 585.0 | 583.0 | 584.5 | 586.0 | 585.5 |
| 63.6 | 67.1 | 71.9 | 75.4 | 78.4 | 93.8 | 133.0 | 150° | 610.0 | 606.0 | 604.5 | 603.0 | 601.5 |
| 61.8 | 65.9 | 70.1 | 72.5 | 78.4 | 95.6 | 122.9 | 152.5° | 628.0 | 623.0 | 620.5 | 618.0 | 616.0 |
| 61.2 | 65.3 | 70.1 | 74.2 | 86.1 | 90.3 | 116.4 | 155° | 641.0 | 638.0 | 637.0 | 636.0 | 633.5 |
| 61.8 | 65.3 | 71.3 | 83.2 | 83.7 | 85.5 | 109.3 | 157.5° | 655.0 | 650.0 | 650.0 | 650.0 | 649.0 |
| 61.8 | 67.1 | 79.6 | 86.7 | 79.6 | 80.8 | 102.8 | 160° | 666.0 | 660.0 | 660.5 | 661.0 | 662.5 |
| 62.4 | 69.5 | 82.6 | 80.8 | 77.2 | 75.4 | 95.6 | 162.5° | 674.0 | 668.0 | 669.0 | 670.0 | 670.5 |
| 62.4 | 68.3 | 79.0 | 76.0 | 71.3 | 71.9 | 87.3 | 165° | 682.0 | 678.0 | 679.0 | 680.0 | 678.5 |
| 60.6 | 68.3 | 76.0 | 68.9 | 65.3 | 68.3 | 80.2 | 167.5° | 694.0 | 688.0 | 688.0 | 688.0 | 686.0 |
| 59.4 | 70.1 | 67.7 | 63.6 | 63.6 | 66.5 | 76.6 | 170° | 701.0 | 696.0 | 695.0 | 694.0 | 691.5 |
| 58.8 | 71.9 | 64.1 | 61.8 | 61.8 | 65.9 | 74.8 | 172.5° | 701.0 | 696.0 | 695.0 | 694.0 | 693.0 |
| 57.0 | 67.1 | 58.8 | 57.6 | 59.4 | 62.4 | 72.5 | 175° | 699.0 | 694.0 | 695.0 | 696.0 | 695.5 |
| 53.5 | 55.8 | 54.0 | 54.0 | 56.4 | 60.0 | 71.3 | 177.5° | 702.0 | 698.0 | 699.5 | 701.0 | 700.0 |
| 49.3 | 50.5 | 50.5 | 51.1 | 53.5 | 56.4 | 72.5 | 180° | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 |
| 45.7 | 45.7 | 46.9 | 47.5 | 49.3 | 53.5 | 69.5 | | | | | | |
| 41.6 | 42.2 | 42.2 | 43.4 | 44.5 | 48.7 | 67.1 | | | | | | |
| 36.8 | 36.8 | 38.0 | 38.0 | 39.8 | 44.0 | 60.0 | | | | | | |
| 32.1 | 32.1 | 32.1 | 32.7 | 33.9 | 38.0 | 49.3 | | | | | | |
| 26.7 | 26.7 | 26.7 | 27.3 | 27.9 | 31.5 | 37.4 | | | | | | |
| 21.4 | 20.8 | 20.2 | 20.2 | 21.4 | 24.4 | 29.1 | | | | | | |
| 14.8 | 14.8 | 14.3 | 14.3 | 14.3 | 16.0 | 19.6 | | | | | | |
| 8.3 | 7.1 | 7.7 | 8.3 | 7.7 | 8.9 | 10.7 | | | | | | |
| 9.6 | 10.2 | 9.8 | 9.4 | 9.4 | 9.4 | 11.1 | | | | | | |
| 6.5 | 7.0 | 7.0 | 7.0 | 6.5 | 6.0 | 6.0 | | | | | | |
| 7.5 | 8.0 | 7.5 | 7.0 | 7.0 | 7.0 | 7.0 | | | | | | |
| 9.5 | 10.0 | 11.0 | 12.0 | 10.5 | 9.0 | 9.0 | | | | | | |
| 24.5 | 26.0 | 27.5 | 29.0 | 25.0 | 21.0 | 16.5 | | | | | | |
| 44.5 | 47.0 | 48.5 | 50.0 | 45.0 | 40.0 | 33.5 | | | | | | |
| 67.5 | 70.0 | 71.0 | 72.0 | 67.5 | 63.0 | 55.5 | | | | | | |
| 92.0 | 94.0 | 94.5 | 95.0 | 91.5 | 88.0 | 80.5 | | | | | | |



REPORT NUMBER: P227148

CATALOG NUMBER: ISW-AF-600-LED-E1-SLL-7050-ULG

CANDELA DISTRIBUTION (continued):

| 295° | 300° | 305° | 310° | 315° | 320° | | 325° | 330° | 335° | 340° | 345° | 350° |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 121.0 | 120.5 | 120.0 | 117.0 | 114.0 | 108.0 | 0° | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 | 1165.9 |
| 150.0 | 149.0 | 148.0 | 145.5 | 143.0 | 138.5 | 2.5° | 1097.6 | 1113.0 | 1137.4 | 1142.1 | 1161.7 | 1175.4 |
| 182.0 | 180.5 | 179.0 | 176.5 | 174.0 | 171.0 | 5° | 930.1 | 966.9 | 980.0 | 1005.5 | 1050.1 | 1072.6 |
| 215.0 | 213.0 | 211.0 | 208.0 | 205.0 | 203.5 | 7.5° | 767.4 | 795.3 | 826.8 | 867.7 | 900.4 | 939.0 |
| 250.0 | 248.0 | 246.0 | 244.5 | 243.0 | 240.0 | 10° | 631.4 | 671.1 | 712.1 | 745.4 | 791.1 | 837.4 |
| 283.0 | 281.0 | 279.0 | 278.0 | 277.0 | 274.0 | 12.5° | 560.7 | 582.6 | 623.0 | 670.0 | 727.0 | 778.6 |
| 315.0 | 314.0 | 313.0 | 311.5 | 310.0 | 307.5 | 15° | 523.8 | 550.0 | 593.3 | 643.2 | 703.8 | 768.0 |
| 346.0 | 345.5 | 345.0 | 342.5 | 340.0 | 339.5 | 17.5° | 478.1 | 519.7 | 569.0 | 640.3 | 718.7 | 807.8 |
| 381.0 | 379.0 | 377.0 | 374.5 | 372.0 | 371.0 | 20° | 433.0 | 483.5 | 548.2 | 642.0 | 750.7 | 866.5 |
| 416.0 | 413.5 | 411.0 | 408.0 | 405.0 | 404.5 | 22.5° | 393.2 | 453.2 | 535.1 | 652.7 | 791.7 | 946.1 |
| 448.0 | 445.5 | 443.0 | 440.0 | 437.0 | 436.0 | 25° | 346.3 | 426.4 | 525.0 | 674.7 | 854.7 | 1053.0 |
| 475.0 | 474.0 | 473.0 | 470.5 | 468.0 | 466.0 | 27.5° | 308.8 | 400.9 | 510.2 | 693.7 | 912.3 | 1155.8 |
| 502.0 | 501.0 | 500.0 | 498.5 | 497.0 | 494.0 | 30° | 267.3 | 371.2 | 489.4 | 700.2 | 982.4 | 1240.1 |
| 533.0 | 530.0 | 527.0 | 526.0 | 525.0 | 523.0 | 32.5° | 234.0 | 343.3 | 465.6 | 694.3 | 1013.8 | 1298.9 |
| 562.0 | 559.0 | 556.0 | 553.5 | 551.0 | 550.5 | 35° | 218.0 | 323.1 | 445.5 | 673.5 | 1040.0 | 1362.5 |
| 585.0 | 582.5 | 580.0 | 577.5 | 575.0 | 574.5 | 37.5° | 207.3 | 301.1 | 425.9 | 639.1 | 1069.7 | 1425.4 |
| 600.0 | 598.5 | 597.0 | 595.0 | 593.0 | 593.0 | 40° | 193.6 | 283.9 | 409.8 | 614.1 | 1092.8 | 1477.7 |
| 614.0 | 612.5 | 611.0 | 610.5 | 610.0 | 610.0 | 42.5° | 181.1 | 268.5 | 397.3 | 592.2 | 1098.8 | 1524.6 |
| 631.0 | 628.5 | 626.0 | 627.0 | 628.0 | 629.0 | 45° | 170.5 | 259.0 | 387.8 | 593.3 | 1102.9 | 1590.0 |
| 648.0 | 646.0 | 644.0 | 644.5 | 645.0 | 645.5 | 47.5° | 162.1 | 250.0 | 384.3 | 613.5 | 1146.9 | 1680.8 |
| 664.0 | 661.0 | 658.0 | 656.5 | 655.0 | 655.0 | 50° | 154.4 | 242.3 | 378.3 | 652.7 | 1217.6 | 1803.8 |
| 671.0 | 669.0 | 667.0 | 665.0 | 663.0 | 662.0 | 52.5° | 145.5 | 231.6 | 370.6 | 693.1 | 1294.8 | 1968.3 |
| 677.0 | 674.5 | 672.0 | 672.5 | 673.0 | 673.0 | 55° | 133.6 | 217.4 | 362.3 | 727.0 | 1399.9 | 2168.5 |
| 684.0 | 681.0 | 678.0 | 681.5 | 685.0 | 686.5 | 57.5° | 115.2 | 200.7 | 357.0 | 744.2 | 1464.6 | 2283.7 |
| 689.0 | 687.5 | 686.0 | 688.5 | 691.0 | 692.0 | 59° | 105.7 | 184.7 | 354.0 | 735.9 | 1481.9 | 2303.3 |
| 692.0 | 690.5 | 689.0 | 689.5 | 690.0 | 690.0 | 60° | 100.4 | 175.2 | 349.2 | 725.8 | 1486.6 | 2290.8 |
| 695.0 | 692.5 | 690.0 | 690.0 | 690.0 | 690.5 | 62.5° | 93.2 | 152.6 | 329.6 | 675.3 | 1420.1 | 2139.9 |
| 699.0 | 696.5 | 694.0 | 694.5 | 695.0 | 696.0 | 65° | 95.0 | 144.3 | 285.1 | 574.9 | 1267.5 | 1845.4 |
| 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 67.5° | 97.4 | 140.8 | 246.5 | 464.5 | 1010.3 | 1527.0 |
| | | | | | | 70° | 95.6 | 139.0 | 223.9 | 369.4 | 756.7 | 1143.3 |
| | | | | | | 72.5° | 93.2 | 131.3 | 194.2 | 297.0 | 479.9 | 800.6 |
| | | | | | | 75° | 82.6 | 110.5 | 152.6 | 203.7 | 302.9 | 583.2 |
| | | | | | | 77.5° | 64.7 | 84.9 | 108.1 | 126.5 | 153.8 | 411.6 |
| | | | | | | 80° | 47.5 | 61.8 | 70.7 | 76.0 | 85.5 | 280.9 |
| | | | | | | 82.5° | 33.9 | 41.6 | 45.1 | 48.1 | 57.0 | 210.3 |
| | | | | | | 85° | 25.5 | 29.1 | 31.5 | 31.5 | 38.6 | 148.5 |
| | | | | | | 87.5° | 14.3 | 14.8 | 14.8 | 16.0 | 19.0 | 40.4 |
| | | | | | | 90° | 12.2 | 12.2 | 11.6 | 11.7 | 10.0 | 8.4 |
| | | | | | | 92.5° | 6.0 | 6.0 | 6.0 | 5.5 | 5.0 | 4.5 |
| | | | | | | 95° | 7.0 | 7.0 | 7.0 | 6.5 | 6.0 | 5.5 |
| | | | | | | 97.5° | 9.0 | 8.5 | 8.0 | 8.0 | 8.0 | 7.5 |
| | | | | | | 100° | 12.0 | 11.0 | 10.0 | 9.5 | 9.0 | 8.5 |
| | | | | | | 102.5° | 27.0 | 22.5 | 18.0 | 15.5 | 13.0 | 12.0 |
| | | | | | | 105° | 48.0 | 42.0 | 36.0 | 31.5 | 27.0 | 24.5 |
| | | | | | | 107.5° | 73.0 | 65.5 | 58.0 | 53.5 | 49.0 | 45.5 |



REPORT NUMBER: P227148

CATALOG NUMBER: ISW-AF-600-LED-E1-SLL-7050-ULG

CANDELA DISTRIBUTION (continued):

| 355° | 359° | 360° | | 325° | 330° | 335° | 340° | 345° | 350° | 355° |
|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 1165.9 | 1165.9 | 1165.9 | 110° | 102.0 | 94.5 | 87.0 | 80.5 | 74.0 | 71.0 | 68.0 |
| 1190.8 | 1199.7 | 1206.9 | 112.5° | 134.0 | 127.5 | 121.0 | 113.5 | 106.0 | 102.5 | 99.0 |
| 1107.1 | 1129.1 | 1133.2 | 115° | 168.0 | 163.5 | 159.0 | 153.0 | 147.0 | 143.0 | 139.0 |
| 981.8 | 1017.4 | 1029.9 | 117.5° | 202.0 | 199.5 | 197.0 | 193.0 | 189.0 | 186.5 | 184.0 |
| 889.7 | 928.3 | 941.4 | 120° | 237.0 | 235.0 | 233.0 | 229.5 | 226.0 | 224.5 | 223.0 |
| 839.2 | 884.4 | 898.6 | 122.5° | 271.0 | 269.0 | 267.0 | 264.0 | 261.0 | 260.5 | 260.0 |
| 840.4 | 894.5 | 915.3 | 125° | 305.0 | 302.0 | 299.0 | 297.5 | 296.0 | 295.0 | 294.0 |
| 895.1 | 956.8 | 982.4 | 127.5° | 339.0 | 336.0 | 333.0 | 331.0 | 329.0 | 329.0 | 329.0 |
| 988.9 | 1078.6 | 1097.6 | 130° | 370.0 | 368.0 | 366.0 | 364.0 | 362.0 | 361.5 | 361.0 |
| 1116.0 | 1203.9 | 1232.4 | 132.5° | 404.0 | 402.5 | 401.0 | 397.0 | 393.0 | 393.5 | 394.0 |
| 1235.4 | 1351.8 | 1373.8 | 135° | 435.0 | 433.5 | 432.0 | 429.0 | 426.0 | 426.0 | 426.0 |
| 1353.0 | 1468.2 | 1487.8 | 137.5° | 464.0 | 462.0 | 460.0 | 459.5 | 459.0 | 458.0 | 457.0 |
| 1443.9 | 1564.4 | 1581.1 | 140° | 491.0 | 490.0 | 489.0 | 488.0 | 487.0 | 486.0 | 485.0 |
| 1531.2 | 1667.2 | 1685.6 | 142.5° | 521.0 | 519.5 | 518.0 | 517.5 | 517.0 | 516.0 | 515.0 |
| 1628.6 | 1778.8 | 1800.2 | 145° | 550.0 | 548.5 | 547.0 | 545.5 | 544.0 | 545.0 | 546.0 |
| 1716.5 | 1888.7 | 1902.4 | 147.5° | 574.0 | 574.0 | 574.0 | 572.5 | 571.0 | 571.5 | 572.0 |
| 1813.9 | 1978.4 | 1982.0 | 150° | 593.0 | 593.0 | 593.0 | 593.0 | 593.0 | 592.5 | 592.0 |
| 1893.5 | 2044.9 | 2046.1 | 152.5° | 610.0 | 609.5 | 609.0 | 608.5 | 608.0 | 608.0 | 608.0 |
| 1970.7 | 2107.3 | 2107.9 | 155° | 630.0 | 628.5 | 627.0 | 626.0 | 625.0 | 625.0 | 625.0 |
| 2051.4 | 2175.6 | 2166.7 | 157.5° | 646.0 | 645.0 | 644.0 | 643.5 | 643.0 | 643.0 | 643.0 |
| 2179.1 | 2256.4 | 2265.3 | 160° | 655.0 | 655.5 | 656.0 | 657.5 | 659.0 | 659.5 | 660.0 |
| 2373.4 | 2442.3 | 2452.4 | 162.5° | 661.0 | 663.0 | 665.0 | 667.0 | 669.0 | 669.0 | 669.0 |
| 2599.1 | 2694.7 | 2681.0 | 165° | 673.0 | 674.5 | 676.0 | 676.0 | 676.0 | 677.0 | 678.0 |
| 2694.7 | 2804.0 | 2815.2 | 167.5° | 688.0 | 687.0 | 686.0 | 685.0 | 684.0 | 685.5 | 687.0 |
| 2678.6 | 2827.7 | 2846.7 | 170° | 693.0 | 692.5 | 692.0 | 692.0 | 692.0 | 693.5 | 695.0 |
| 2653.1 | 2820.6 | 2843.8 | 172.5° | 690.0 | 691.5 | 693.0 | 694.0 | 695.0 | 696.0 | 697.0 |
| 2508.2 | 2746.4 | 2782.6 | 175° | 691.0 | 693.0 | 695.0 | 696.0 | 697.0 | 697.5 | 698.0 |
| 2264.7 | 2592.5 | 2643.6 | 177.5° | 697.0 | 698.0 | 699.0 | 699.5 | 700.0 | 702.5 | 705.0 |
| 1951.7 | 2362.7 | 2403.7 | 180° | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 |
| 1522.8 | 1920.2 | 1955.2 | | | | | | | | |
| 1012.1 | 1318.5 | 1379.1 | | | | | | | | |
| 643.2 | 850.5 | 839.2 | | | | | | | | |
| 474.6 | 553.0 | 553.5 | | | | | | | | |
| 344.5 | 379.5 | 375.4 | | | | | | | | |
| 266.7 | 231.6 | 231.0 | | | | | | | | |
| 93.2 | 82.0 | 80.2 | | | | | | | | |
| 40.4 | 33.9 | 34.4 | | | | | | | | |
| 6.8 | 6.8 | 7.4 | | | | | | | | |
| 4.0 | 4.0 | 4.0 | | | | | | | | |
| 5.0 | 5.0 | 5.0 | | | | | | | | |
| 7.0 | 7.0 | 7.0 | | | | | | | | |
| 8.0 | 8.0 | 8.0 | | | | | | | | |
| 11.0 | 11.0 | 11.0 | | | | | | | | |
| 22.0 | 21.2 | 21.0 | | | | | | | | |
| 42.0 | 41.2 | 41.0 | | | | | | | | |



| 359° | 360° |
|-------|-------|
| 66.4 | 66.0 |
| 99.0 | 99.0 |
| 139.8 | 140.0 |
| 184.0 | 184.0 |
| 224.6 | 225.0 |
| 262.4 | 263.0 |
| 297.2 | 298.0 |
| 329.8 | 330.0 |
| 362.6 | 363.0 |
| 395.6 | 396.0 |
| 428.4 | 429.0 |
| 459.4 | 460.0 |
| 487.4 | 488.0 |
| 517.4 | 518.0 |
| 549.2 | 550.0 |
| 574.4 | 575.0 |
| 594.4 | 595.0 |
| 610.4 | 611.0 |
| 628.2 | 629.0 |
| 645.4 | 646.0 |
| 662.4 | 663.0 |
| 672.2 | 673.0 |
| 680.4 | 681.0 |
| 689.4 | 690.0 |
| 697.4 | 698.0 |
| 698.6 | 699.0 |
| 699.6 | 700.0 |
| 706.6 | 707.0 |
| 700.0 | 700.0 |

(END OF REPORT)