

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: P227039

Luminaire Tested: **ISW-AF-1000-LED-E1-SL4-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35947)-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-1000-LED-E1-SL4-7030-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV W/SPILL CONTROL, WITH UPLIGHT
GLOW
Light Source: (16) 3000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6530.7 lumens
Efficiency: N/A
Efficacy: 91.6 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): 71.3
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

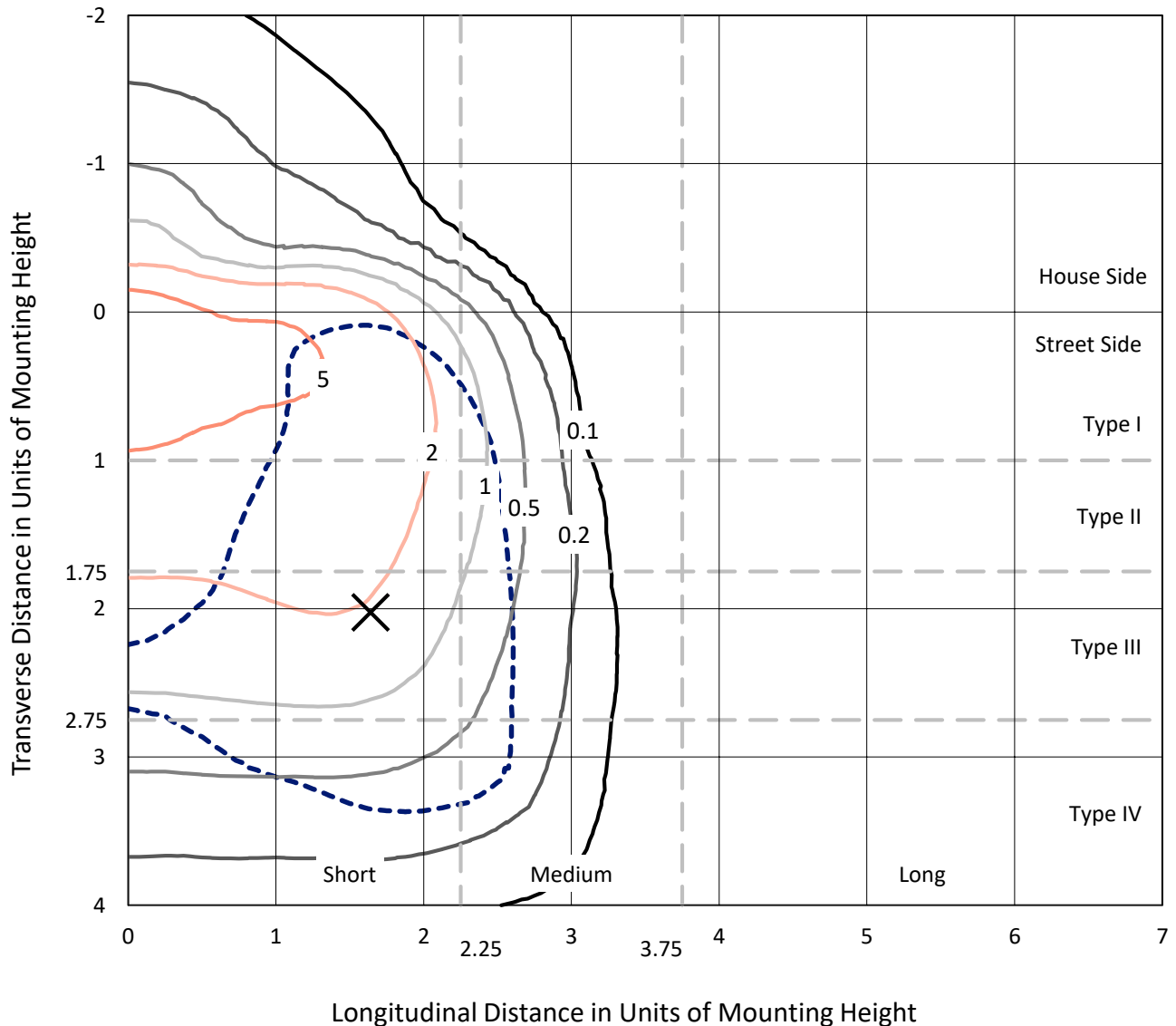


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

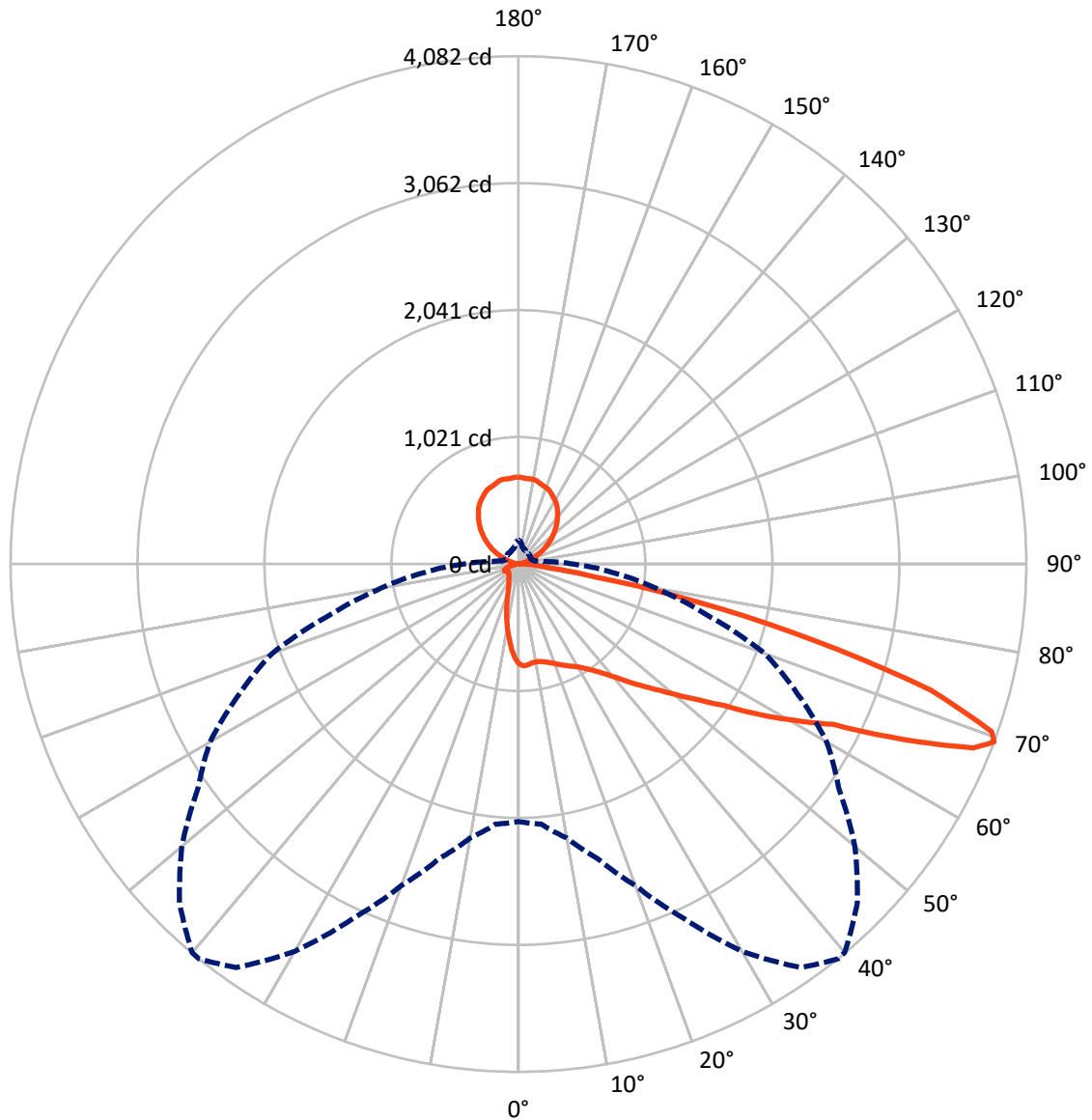


Based on 10 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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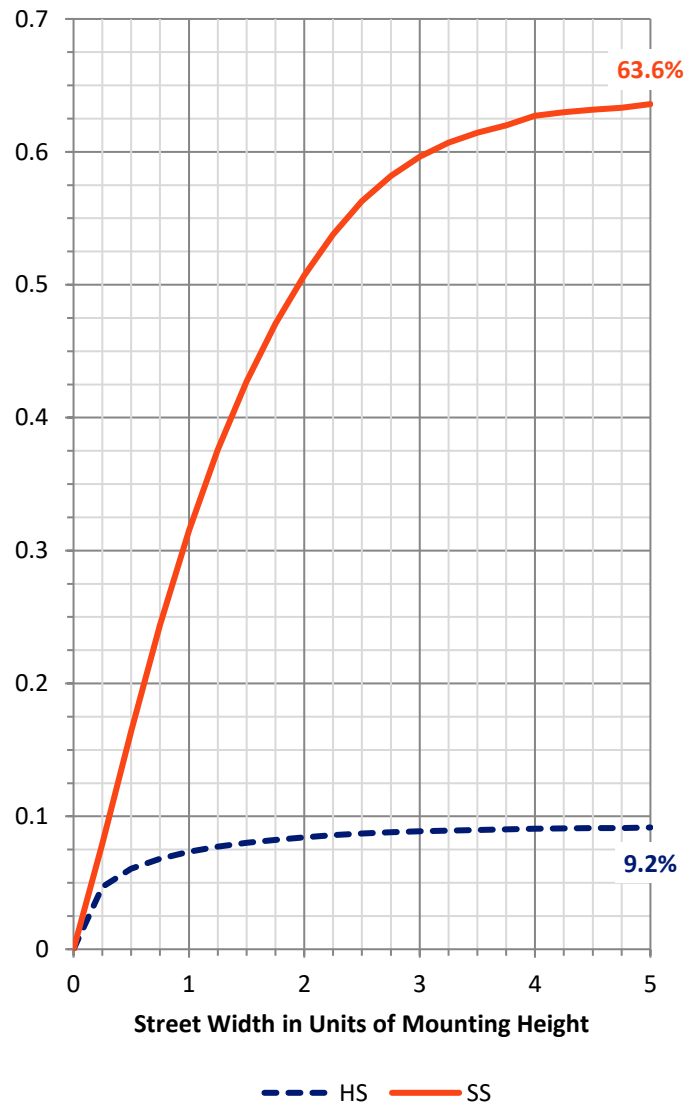
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 607.1 | 867.7 | 1474.9 |
| | % Fixture | 9.3 | 13.3 | 22.6 |
| Street Side | Lumens | 4187.1 | 868.8 | 5055.9 |
| | % Fixture | 64.1 | 13.3 | 77.4 |
| Total | Lumens | 4794.3 | 1736.5 | 6530.7 |
| | % Fixture | 73.4 | 26.6 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 69.3 | 1.1 |
| 10°-20° | 174.8 | 2.7 |
| 20°-30° | 272.1 | 4.2 |
| 30°-40° | 411.2 | 6.3 |
| 40°-50° | 658.0 | 10.1 |
| 50°-60° | 1034.1 | 15.8 |
| 60°-70° | 1392.4 | 21.3 |
| 70°-80° | 690.7 | 10.6 |
| 80°-90° | 91.8 | 1.4 |
| 90°-100° | 10.6 | 0.2 |
| 100°-110° | 57.4 | 0.9 |
| 110°-120° | 166.1 | 2.5 |
| 120°-130° | 273.2 | 4.2 |
| 130°-140° | 336.8 | 5.2 |
| 140°-150° | 344.6 | 5.3 |
| 150°-160° | 290.3 | 4.4 |
| 160°-170° | 191.2 | 2.9 |
| 170°-180° | 66.3 | 1.0 |
| 0°-90° | 4794.3 | 73.4 |
| 0°-180° | 6530.7 | 100.0 |

Coefficient of Utilization



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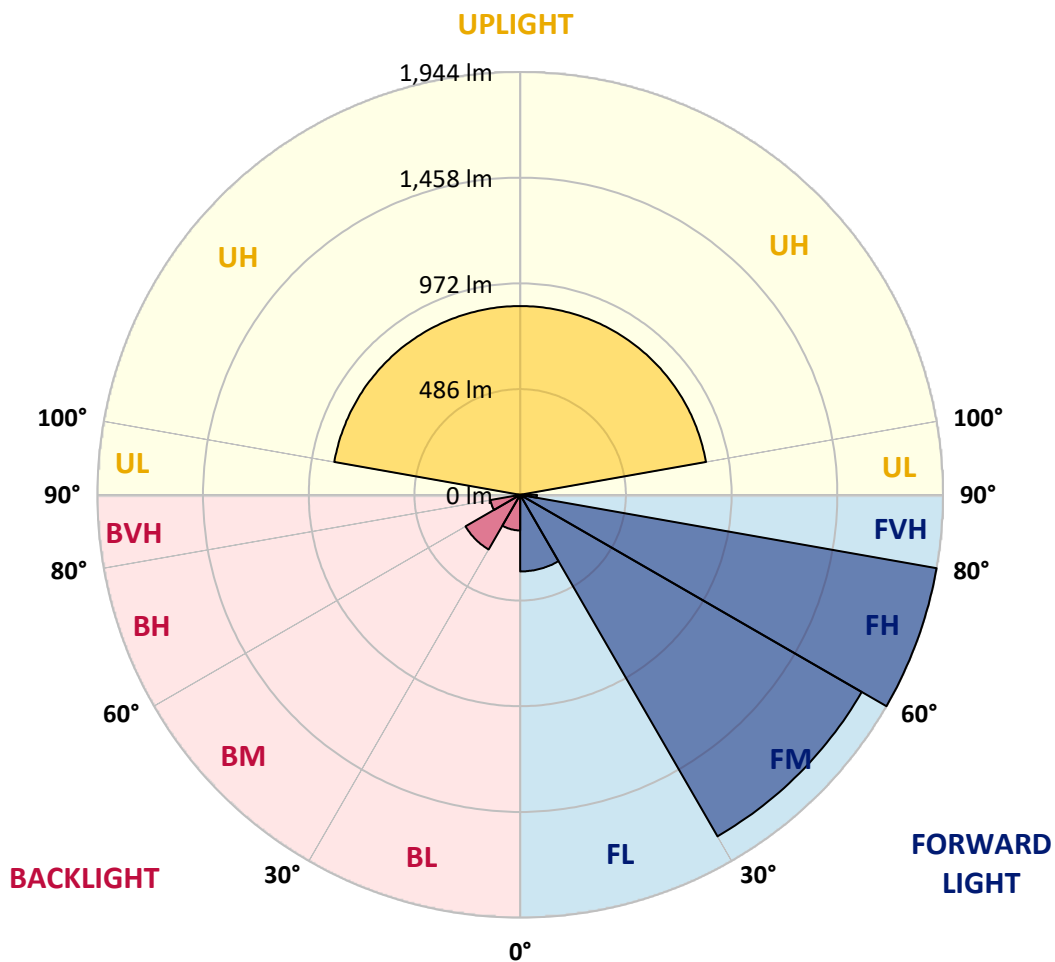
CATALOG NUMBER: ISW-AF-1000-LED-E1-SL4-7030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|---------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 352.5 | 5.4 | | | |
| FM | (30°-60°) | 1813.4 | 27.8 | | | |
| FH | (60°-80°) | 1944.2 | 29.8 | | | G2/5000 |
| FVH | (80°-90°) | 76.9 | 1.2 | | | G1/100 |
| BL | (0°-30°) | 163.7 | 2.5 | B1/500 | | |
| BM | (30°-60°) | 289.8 | 4.4 | B1/1000 | | |
| BH | (60°-80°) | 138.9 | 2.1 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 14.8 | 0.2 | | | G1/100 |
| UL | (90°-100°) | 10.6 | 0.2 | | U2/50 | |
| UH | (100°-180°) | 867.7 | 13.3 | | U4/1000 | |

BUG Rating: B1-U5-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 39° | 40° | 45° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 803.0 | 803.0 | 803.0 | 803.0 | 803.0 | 803.0 | 803.0 | 803.0 | 803.0 | 803.0 | 803.0 |
| 2.5° | 822.5 | 823.3 | 823.3 | 824.1 | 820.9 | 820.9 | 821.7 | 818.6 | 820.2 | 819.4 | 815.5 |
| 5° | 824.1 | 824.8 | 824.1 | 824.8 | 820.9 | 819.4 | 816.3 | 812.4 | 813.9 | 813.2 | 807.7 |
| 7.5° | 820.2 | 820.9 | 819.4 | 820.2 | 815.5 | 812.4 | 807.7 | 804.6 | 802.3 | 801.5 | 794.5 |
| 10° | 811.6 | 813.9 | 810.8 | 813.2 | 809.3 | 806.2 | 803.8 | 800.7 | 799.2 | 798.4 | 790.6 |
| 12.5° | 799.2 | 800.7 | 801.5 | 804.6 | 804.6 | 805.4 | 805.4 | 803.0 | 803.8 | 803.0 | 796.8 |
| 15° | 787.5 | 792.9 | 798.4 | 801.5 | 807.7 | 811.6 | 814.7 | 813.9 | 816.3 | 815.5 | 811.6 |
| 17.5° | 787.5 | 792.2 | 801.5 | 811.6 | 823.3 | 828.7 | 833.4 | 833.4 | 834.2 | 832.6 | 826.4 |
| 20° | 790.6 | 799.2 | 814.7 | 831.8 | 845.8 | 856.7 | 859.9 | 859.1 | 856.0 | 856.0 | 845.1 |
| 22.5° | 816.3 | 821.7 | 838.8 | 857.5 | 877.0 | 887.9 | 888.6 | 886.3 | 880.1 | 878.5 | 865.3 |
| 25° | 852.8 | 859.1 | 874.6 | 898.8 | 913.5 | 922.1 | 919.8 | 912.0 | 905.8 | 900.3 | 886.3 |
| 27.5° | 909.7 | 914.3 | 929.9 | 946.2 | 954.8 | 957.9 | 948.6 | 937.7 | 930.7 | 928.3 | 909.7 |
| 30° | 968.0 | 974.2 | 986.7 | 996.8 | 1003.8 | 994.5 | 979.7 | 967.2 | 961.0 | 959.5 | 942.3 |
| 32.5° | 1039.6 | 1040.4 | 1048.9 | 1051.3 | 1052.1 | 1036.5 | 1016.3 | 1004.6 | 1002.3 | 999.1 | 985.9 |
| 35° | 1105.0 | 1108.9 | 1107.3 | 1106.5 | 1099.5 | 1080.1 | 1062.9 | 1055.9 | 1053.6 | 1052.8 | 1041.9 |
| 37.5° | 1163.3 | 1169.6 | 1165.7 | 1158.7 | 1150.1 | 1134.5 | 1116.6 | 1108.9 | 1116.6 | 1112.0 | 1114.3 |
| 40° | 1220.1 | 1220.1 | 1215.5 | 1211.6 | 1201.5 | 1186.7 | 1180.4 | 1181.2 | 1193.7 | 1196.8 | 1199.9 |
| 42.5° | 1269.2 | 1268.4 | 1263.7 | 1260.6 | 1259.0 | 1255.9 | 1252.8 | 1267.6 | 1291.7 | 1296.4 | 1303.4 |
| 45° | 1322.8 | 1322.1 | 1304.2 | 1310.4 | 1321.3 | 1323.6 | 1334.5 | 1368.8 | 1398.3 | 1400.7 | 1415.4 |
| 47.5° | 1375.0 | 1368.8 | 1351.6 | 1357.9 | 1389.0 | 1405.3 | 1423.2 | 1471.5 | 1512.7 | 1521.3 | 1562.5 |
| 50° | 1429.5 | 1423.2 | 1404.6 | 1416.2 | 1459.8 | 1490.1 | 1532.2 | 1599.1 | 1655.9 | 1667.6 | 1721.3 |
| 52.5° | 1486.3 | 1485.5 | 1470.7 | 1488.6 | 1542.3 | 1603.8 | 1669.9 | 1745.4 | 1814.6 | 1829.4 | 1908.8 |
| 55° | 1554.7 | 1550.8 | 1544.6 | 1566.4 | 1642.7 | 1725.2 | 1828.6 | 1931.4 | 2006.8 | 2033.3 | 2113.4 |
| 57.5° | 1631.8 | 1630.2 | 1631.0 | 1676.1 | 1767.9 | 1893.2 | 2020.1 | 2158.6 | 2283.1 | 2301.8 | 2376.5 |
| 60° | 1698.7 | 1701.8 | 1719.7 | 1790.5 | 1905.7 | 2075.3 | 2253.5 | 2441.0 | 2551.5 | 2571.0 | 2644.1 |
| 62.5° | 1780.4 | 1798.3 | 1838.0 | 1927.5 | 2062.9 | 2268.3 | 2499.4 | 2697.8 | 2840.2 | 2879.9 | 3018.4 |
| 65° | 1976.5 | 1990.5 | 2064.4 | 2172.6 | 2345.3 | 2608.3 | 2873.7 | 3162.4 | 3397.4 | 3433.2 | 3552.2 |
| 67.5° | 2119.7 | 2155.5 | 2271.4 | 2448.0 | 2697.8 | 3034.0 | 3398.2 | 3747.6 | 3946.0 | 3962.3 | 3879.1 |
| 69° | 2069.9 | 2099.4 | 2236.4 | 2449.6 | 2750.7 | 3142.2 | 3595.0 | 3960.0 | 4082.2 | 4079.0 | 3852.6 |
| 70° | 1993.6 | 2020.8 | 2171.8 | 2378.8 | 2706.4 | 3129.7 | 3598.1 | 3961.5 | 4035.5 | 4007.5 | 3748.3 |
| 72.5° | 1669.9 | 1694.0 | 1835.6 | 2052.0 | 2369.5 | 2789.7 | 3230.9 | 3479.1 | 3463.5 | 3440.2 | 3012.2 |
| 75° | 1042.7 | 1041.2 | 1164.9 | 1290.2 | 1536.8 | 1961.7 | 2290.1 | 2489.3 | 2457.4 | 2439.5 | 1933.7 |
| 77.5° | 389.9 | 417.1 | 462.2 | 596.8 | 710.4 | 940.0 | 1205.3 | 1427.1 | 1488.6 | 1410.0 | 1041.2 |
| 80° | 203.1 | 217.9 | 247.5 | 294.9 | 339.3 | 388.3 | 466.9 | 600.7 | 621.7 | 579.7 | 420.2 |
| 82.5° | 160.3 | 178.2 | 207.8 | 248.2 | 279.4 | 260.7 | 245.9 | 254.5 | 252.9 | 241.2 | 214.0 |
| 85° | 121.4 | 142.4 | 190.6 | 231.9 | 276.2 | 233.4 | 186.0 | 162.6 | 144.7 | 145.5 | 154.9 |
| 87.5° | 60.7 | 78.6 | 150.2 | 202.3 | 240.4 | 154.9 | 121.4 | 94.2 | 78.6 | 75.5 | 101.2 |
| 90° | 23.7 | 23.7 | 36.3 | 46.7 | 62.0 | 35.2 | 34.5 | 28.2 | 22.4 | 22.3 | 30.3 |
| 92.5° | 4.0 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| 95° | 5.0 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 |
| 97.5° | 7.0 | 7.0 | 7.5 | 8.0 | 8.0 | 8.0 | 8.5 | 9.0 | 9.0 | 9.0 | 9.0 |
| 100° | 8.0 | 8.0 | 8.5 | 9.0 | 9.5 | 10.0 | 11.0 | 12.0 | 15.6 | 16.5 | 21.0 |
| 102.5° | 11.0 | 11.0 | 12.0 | 13.0 | 15.5 | 18.0 | 22.5 | 27.0 | 32.2 | 33.5 | 40.0 |
| 105° | 21.0 | 22.0 | 24.5 | 27.0 | 31.5 | 36.0 | 42.0 | 48.0 | 54.0 | 55.5 | 63.0 |
| 107.5° | 41.0 | 42.0 | 45.5 | 49.0 | 53.5 | 58.0 | 65.5 | 73.0 | 79.0 | 80.5 | 88.0 |



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CATALOG NUMBER: ISW-AF-1000-LED-E1-SL4-7030-ULG

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 39° | 40° | 45° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110° | 66.0 | 68.0 | 71.0 | 74.0 | 80.5 | 87.0 | 94.5 | 102.0 | 106.8 | 108.0 | 114.0 |
| 112.5° | 99.0 | 99.0 | 102.5 | 106.0 | 113.5 | 121.0 | 127.5 | 134.0 | 137.6 | 138.5 | 143.0 |
| 115° | 140.0 | 139.0 | 143.0 | 147.0 | 153.0 | 159.0 | 163.5 | 168.0 | 170.4 | 171.0 | 174.0 |
| 117.5° | 184.0 | 184.0 | 186.5 | 189.0 | 193.0 | 197.0 | 199.5 | 202.0 | 203.2 | 203.5 | 205.0 |
| 120° | 225.0 | 223.0 | 224.5 | 226.0 | 229.5 | 233.0 | 235.0 | 237.0 | 239.4 | 240.0 | 243.0 |
| 122.5° | 263.0 | 260.0 | 260.5 | 261.0 | 264.0 | 267.0 | 269.0 | 271.0 | 273.4 | 274.0 | 277.0 |
| 125° | 298.0 | 294.0 | 295.0 | 296.0 | 297.5 | 299.0 | 302.0 | 305.0 | 307.0 | 307.5 | 310.0 |
| 127.5° | 330.0 | 329.0 | 329.0 | 329.0 | 331.0 | 333.0 | 336.0 | 339.0 | 339.4 | 339.5 | 340.0 |
| 130° | 363.0 | 361.0 | 361.5 | 362.0 | 364.0 | 366.0 | 368.0 | 370.0 | 370.8 | 371.0 | 372.0 |
| 132.5° | 396.0 | 394.0 | 393.5 | 393.0 | 397.0 | 401.0 | 402.5 | 404.0 | 404.4 | 404.5 | 405.0 |
| 135° | 429.0 | 426.0 | 426.0 | 426.0 | 429.0 | 432.0 | 433.5 | 435.0 | 435.8 | 436.0 | 437.0 |
| 137.5° | 460.0 | 457.0 | 458.0 | 459.0 | 459.5 | 460.0 | 462.0 | 464.0 | 465.6 | 466.0 | 468.0 |
| 140° | 488.0 | 485.0 | 486.0 | 487.0 | 488.0 | 489.0 | 490.0 | 491.0 | 493.4 | 494.0 | 497.0 |
| 142.5° | 518.0 | 515.0 | 516.0 | 517.0 | 517.5 | 518.0 | 519.5 | 521.0 | 522.6 | 523.0 | 525.0 |
| 145° | 550.0 | 546.0 | 545.0 | 544.0 | 545.5 | 547.0 | 548.5 | 550.0 | 550.4 | 550.5 | 551.0 |
| 147.5° | 575.0 | 572.0 | 571.5 | 571.0 | 572.5 | 574.0 | 574.0 | 574.0 | 574.4 | 574.5 | 575.0 |
| 150° | 595.0 | 592.0 | 592.5 | 593.0 | 593.0 | 593.0 | 593.0 | 593.0 | 593.0 | 593.0 | 593.0 |
| 152.5° | 611.0 | 608.0 | 608.0 | 608.0 | 608.5 | 609.0 | 609.5 | 610.0 | 610.0 | 610.0 | 610.0 |
| 155° | 629.0 | 625.0 | 625.0 | 625.0 | 626.0 | 627.0 | 628.5 | 630.0 | 629.2 | 629.0 | 628.0 |
| 157.5° | 646.0 | 643.0 | 643.0 | 643.0 | 643.5 | 644.0 | 645.0 | 646.0 | 645.6 | 645.5 | 645.0 |
| 160° | 663.0 | 660.0 | 659.5 | 659.0 | 657.5 | 656.0 | 655.5 | 655.0 | 655.0 | 655.0 | 655.0 |
| 162.5° | 673.0 | 669.0 | 669.0 | 669.0 | 667.0 | 665.0 | 663.0 | 661.0 | 661.8 | 662.0 | 663.0 |
| 165° | 681.0 | 678.0 | 677.0 | 676.0 | 676.0 | 676.0 | 674.5 | 673.0 | 673.0 | 673.0 | 673.0 |
| 167.5° | 690.0 | 687.0 | 685.5 | 684.0 | 685.0 | 686.0 | 687.0 | 688.0 | 686.8 | 686.5 | 685.0 |
| 170° | 698.0 | 695.0 | 693.5 | 692.0 | 692.0 | 692.0 | 692.5 | 693.0 | 692.2 | 692.0 | 691.0 |
| 172.5° | 699.0 | 697.0 | 696.0 | 695.0 | 694.0 | 693.0 | 691.5 | 690.0 | 690.0 | 690.0 | 690.0 |
| 175° | 700.0 | 698.0 | 697.5 | 697.0 | 696.0 | 695.0 | 693.0 | 691.0 | 690.6 | 690.5 | 690.0 |
| 177.5° | 707.0 | 705.0 | 702.5 | 700.0 | 699.5 | 699.0 | 698.0 | 697.0 | 696.2 | 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-1000-LED-E1-SL4-7030-ULG

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0° | 803.0 | 803.0 | 803.0 | 803.0 | 803.0 | 803.0 | 803.0 | 803.0 | 803.0 | 803.0 | 803.0 |
| 2.5° | 812.4 | 812.4 | 810.8 | 810.1 | 807.7 | 804.6 | 802.3 | 798.4 | 796.0 | 792.2 | 787.5 |
| 5° | 802.3 | 799.2 | 797.6 | 794.5 | 789.8 | 785.9 | 781.3 | 775.8 | 769.6 | 761.8 | 753.2 |
| 7.5° | 789.0 | 784.4 | 778.9 | 777.4 | 771.9 | 767.3 | 761.8 | 754.0 | 745.5 | 731.5 | 720.6 |
| 10° | 783.6 | 778.9 | 774.3 | 771.1 | 764.1 | 758.7 | 752.5 | 742.4 | 731.5 | 712.8 | 692.6 |
| 12.5° | 789.0 | 784.4 | 779.7 | 774.3 | 768.0 | 761.8 | 753.2 | 740.8 | 726.0 | 701.9 | 677.0 |
| 15° | 802.3 | 797.6 | 789.8 | 784.4 | 775.8 | 770.4 | 758.7 | 744.7 | 722.9 | 693.3 | 660.6 |
| 17.5° | 817.1 | 810.1 | 803.0 | 794.5 | 786.7 | 779.7 | 767.3 | 749.4 | 722.1 | 687.1 | 645.1 |
| 20° | 831.1 | 823.3 | 812.4 | 806.2 | 798.4 | 788.3 | 775.0 | 753.2 | 720.6 | 674.7 | 628.7 |
| 22.5° | 847.4 | 837.3 | 825.6 | 818.6 | 812.4 | 803.8 | 788.3 | 760.2 | 720.6 | 667.6 | 610.1 |
| 25° | 868.4 | 855.2 | 843.5 | 836.5 | 832.6 | 826.4 | 807.7 | 776.6 | 726.0 | 663.8 | 594.5 |
| 27.5° | 893.3 | 876.2 | 866.1 | 861.4 | 860.6 | 856.0 | 837.3 | 798.4 | 738.5 | 663.8 | 579.7 |
| 30° | 922.9 | 908.1 | 894.9 | 894.9 | 904.2 | 901.1 | 880.1 | 831.8 | 757.9 | 666.1 | 568.8 |
| 32.5° | 964.1 | 949.3 | 941.6 | 949.3 | 959.5 | 962.6 | 938.4 | 879.3 | 789.8 | 677.0 | 557.9 |
| 35° | 1024.8 | 1015.5 | 1010.0 | 1021.7 | 1041.9 | 1049.7 | 1020.1 | 950.1 | 836.5 | 698.0 | 551.7 |
| 37.5° | 1105.0 | 1098.0 | 1091.0 | 1111.2 | 1149.3 | 1164.9 | 1122.1 | 1031.8 | 903.4 | 733.0 | 548.6 |
| 40° | 1196.8 | 1197.6 | 1205.3 | 1245.8 | 1282.4 | 1315.1 | 1266.8 | 1155.5 | 995.2 | 782.8 | 551.7 |
| 42.5° | 1305.7 | 1314.3 | 1340.7 | 1396.8 | 1467.6 | 1493.3 | 1446.6 | 1305.0 | 1109.6 | 842.7 | 559.5 |
| 45° | 1441.1 | 1463.7 | 1508.8 | 1592.1 | 1677.7 | 1717.4 | 1651.2 | 1493.3 | 1253.6 | 938.4 | 581.3 |
| 47.5° | 1585.1 | 1634.9 | 1711.1 | 1812.3 | 1911.9 | 1937.6 | 1855.9 | 1663.7 | 1394.4 | 1023.3 | 614.7 |
| 50° | 1769.5 | 1830.2 | 1906.5 | 2027.8 | 2133.7 | 2149.2 | 2041.1 | 1821.6 | 1517.4 | 1097.2 | 646.6 |
| 52.5° | 1941.5 | 2024.0 | 2121.2 | 2262.1 | 2369.5 | 2350.0 | 2209.9 | 1962.5 | 1614.7 | 1147.8 | 664.5 |
| 55° | 2176.5 | 2262.1 | 2371.8 | 2494.7 | 2601.3 | 2554.7 | 2363.2 | 2082.3 | 1692.5 | 1185.1 | 670.0 |
| 57.5° | 2444.9 | 2510.3 | 2617.7 | 2743.7 | 2813.8 | 2733.6 | 2514.2 | 2199.0 | 1766.4 | 1185.9 | 627.2 |
| 60° | 2708.7 | 2785.0 | 2903.3 | 3027.0 | 3065.9 | 2927.4 | 2619.2 | 2216.9 | 1693.2 | 1058.3 | 501.9 |
| 62.5° | 3099.4 | 3176.4 | 3236.3 | 3256.5 | 3186.5 | 2907.9 | 2497.1 | 2027.8 | 1459.8 | 835.0 | 355.6 |
| 65° | 3535.9 | 3448.7 | 3332.8 | 3223.9 | 3033.2 | 2609.9 | 2153.1 | 1666.0 | 1133.0 | 557.9 | 245.1 |
| 67.5° | 3650.3 | 3384.9 | 3132.8 | 2890.0 | 2534.4 | 2078.4 | 1624.0 | 1171.9 | 726.8 | 317.5 | 166.5 |
| 69° | 3531.2 | 3143.7 | 2862.8 | 2477.6 | 2110.3 | 1555.5 | 1119.0 | 750.9 | 434.2 | 221.0 | 139.3 |
| 70° | 3313.3 | 2910.3 | 2529.8 | 2117.3 | 1634.9 | 1188.2 | 743.9 | 491.8 | 283.2 | 161.1 | 125.3 |
| 72.5° | 2500.2 | 1999.1 | 1540.7 | 1000.7 | 610.1 | 338.5 | 238.1 | 170.4 | 134.6 | 118.3 | 107.4 |
| 75° | 1445.8 | 962.6 | 630.3 | 336.2 | 199.2 | 147.8 | 129.2 | 115.2 | 106.6 | 102.7 | 93.4 |
| 77.5° | 610.1 | 381.3 | 258.3 | 189.1 | 133.8 | 114.4 | 99.6 | 91.8 | 91.0 | 88.7 | 80.1 |
| 80° | 277.8 | 238.1 | 203.1 | 142.4 | 101.9 | 87.2 | 76.3 | 74.7 | 76.3 | 73.9 | 65.4 |
| 82.5° | 206.2 | 203.1 | 169.6 | 109.7 | 77.8 | 58.4 | 47.5 | 49.8 | 56.0 | 60.7 | 52.9 |
| 85° | 172.0 | 172.0 | 142.4 | 81.7 | 51.4 | 37.4 | 36.6 | 41.2 | 46.7 | 50.6 | 42.8 |
| 87.5° | 158.0 | 151.7 | 81.7 | 42.0 | 29.6 | 24.1 | 22.6 | 20.2 | 20.2 | 35.0 | 29.6 |
| 90° | 22.6 | 14.0 | 11.9 | 12.1 | 12.9 | 12.1 | 12.7 | 10.9 | 10.9 | 10.9 | 11.9 |
| 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: P227039

CATALOG NUMBER: ISW-AF-1000-LED-E1-SL4-7030-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: P227039

CATALOG NUMBER: ISW-AF-1000-LED-E1-SL4-7030-ULG

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 803.0 | 803.0 | 803.0 | 803.0 | 803.0 | 803.0 | 803.0 | 803.0 | 803.0 | 803.0 | 803.0 |
| 2.5° | 783.6 | 780.5 | 772.7 | 771.1 | 768.8 | 765.7 | 764.9 | 761.0 | 753.2 | 751.7 | 752.5 |
| 5° | 747.8 | 735.3 | 726.8 | 719.8 | 714.3 | 700.3 | 694.9 | 688.7 | 677.8 | 674.7 | 670.0 |
| 7.5° | 705.8 | 691.0 | 673.9 | 661.4 | 646.6 | 631.9 | 620.2 | 605.4 | 593.7 | 586.7 | 574.3 |
| 10° | 673.1 | 652.9 | 630.3 | 605.4 | 585.9 | 563.4 | 548.6 | 531.5 | 512.8 | 495.7 | 483.2 |
| 12.5° | 648.2 | 620.2 | 587.5 | 557.9 | 529.9 | 505.8 | 479.3 | 455.2 | 431.9 | 408.5 | 388.3 |
| 15° | 628.0 | 592.9 | 551.7 | 514.4 | 480.1 | 444.3 | 414.8 | 381.3 | 351.7 | 331.5 | 305.8 |
| 17.5° | 606.2 | 561.0 | 512.0 | 468.4 | 424.1 | 386.7 | 349.4 | 314.4 | 286.4 | 259.9 | 238.9 |
| 20° | 579.7 | 525.2 | 472.3 | 421.8 | 371.2 | 328.4 | 290.2 | 256.8 | 229.6 | 208.5 | 193.0 |
| 22.5° | 550.1 | 486.3 | 424.9 | 369.6 | 319.0 | 277.0 | 241.2 | 216.3 | 196.1 | 184.4 | 179.8 |
| 25° | 521.4 | 448.2 | 379.0 | 318.3 | 267.7 | 231.9 | 207.8 | 186.8 | 176.6 | 172.0 | 172.0 |
| 27.5° | 494.9 | 409.3 | 332.3 | 273.1 | 224.1 | 196.1 | 177.4 | 168.9 | 164.2 | 164.2 | 166.5 |
| 30° | 470.0 | 370.4 | 287.9 | 228.0 | 189.1 | 168.1 | 158.0 | 154.9 | 155.6 | 158.7 | 161.9 |
| 32.5° | 441.2 | 333.0 | 249.8 | 196.1 | 164.2 | 150.2 | 142.4 | 143.2 | 147.1 | 152.5 | 158.0 |
| 35° | 410.9 | 293.4 | 216.3 | 172.0 | 147.1 | 136.2 | 131.5 | 132.3 | 137.7 | 144.7 | 150.2 |
| 37.5° | 383.6 | 261.5 | 190.6 | 153.3 | 134.6 | 127.6 | 123.7 | 124.5 | 128.4 | 137.0 | 144.0 |
| 40° | 356.4 | 234.2 | 169.6 | 142.4 | 127.6 | 120.6 | 118.3 | 117.5 | 120.6 | 128.4 | 137.0 |
| 42.5° | 333.0 | 210.9 | 157.2 | 134.6 | 122.9 | 116.7 | 113.6 | 113.6 | 115.2 | 121.4 | 130.0 |
| 45° | 319.0 | 196.9 | 148.6 | 129.2 | 119.1 | 113.6 | 110.5 | 108.9 | 111.3 | 115.2 | 122.9 |
| 47.5° | 319.0 | 189.9 | 143.2 | 125.3 | 115.9 | 111.3 | 107.4 | 106.6 | 107.4 | 111.3 | 119.1 |
| 50° | 329.9 | 191.4 | 142.4 | 123.7 | 114.4 | 108.2 | 104.3 | 104.3 | 105.8 | 111.3 | 117.5 |
| 52.5° | 339.3 | 194.5 | 144.7 | 125.3 | 114.4 | 106.6 | 101.9 | 101.2 | 103.5 | 108.9 | 114.4 |
| 55° | 337.7 | 194.5 | 147.1 | 127.6 | 116.7 | 107.4 | 101.2 | 100.4 | 101.9 | 107.4 | 112.8 |
| 57.5° | 301.9 | 182.9 | 144.7 | 129.2 | 119.8 | 111.3 | 105.0 | 102.7 | 104.3 | 108.9 | 113.6 |
| 60° | 244.3 | 162.6 | 138.5 | 129.2 | 124.5 | 118.3 | 112.1 | 110.5 | 111.3 | 115.9 | 121.4 |
| 62.5° | 191.4 | 144.7 | 130.7 | 128.4 | 126.8 | 123.7 | 121.4 | 119.8 | 119.8 | 123.7 | 128.4 |
| 65° | 155.6 | 130.7 | 124.5 | 125.3 | 126.8 | 126.1 | 125.3 | 124.5 | 124.5 | 126.8 | 131.5 |
| 67.5° | 130.0 | 117.5 | 115.9 | 118.3 | 119.8 | 120.6 | 121.4 | 120.6 | 121.4 | 123.7 | 129.2 |
| 69° | 118.3 | 110.5 | 108.9 | 110.5 | 113.6 | 114.4 | 115.9 | 115.2 | 115.9 | 118.3 | 123.7 |
| 70° | 111.3 | 105.0 | 103.5 | 105.8 | 108.2 | 108.9 | 110.5 | 109.7 | 110.5 | 112.8 | 118.3 |
| 72.5° | 96.5 | 89.5 | 87.2 | 88.7 | 91.0 | 91.0 | 93.4 | 94.2 | 92.6 | 93.4 | 97.3 |
| 75° | 82.5 | 74.7 | 70.8 | 71.6 | 71.6 | 71.6 | 73.1 | 73.1 | 71.6 | 70.8 | 71.6 |
| 77.5° | 69.3 | 60.7 | 56.0 | 56.0 | 56.0 | 55.2 | 52.9 | 53.7 | 54.5 | 53.7 | 54.5 |
| 80° | 54.5 | 47.5 | 42.8 | 42.8 | 42.8 | 41.2 | 40.5 | 40.5 | 42.0 | 43.6 | 42.8 |
| 82.5° | 42.0 | 35.0 | 32.7 | 31.9 | 31.9 | 30.3 | 30.3 | 31.9 | 31.1 | 31.9 | 33.5 |
| 85° | 30.3 | 24.9 | 22.6 | 23.3 | 22.6 | 21.0 | 21.8 | 24.1 | 24.1 | 23.3 | 24.9 |
| 87.5° | 18.7 | 15.6 | 14.8 | 15.6 | 14.0 | 11.7 | 10.9 | 11.7 | 13.2 | 12.5 | 14.0 |
| 90° | 11.3 | 10.6 | 10.6 | 9.6 | 9.3 | 8.6 | 8.6 | 9.1 | 10.3 | 10.3 | 9.6 |
| 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: P227039
 CATALOG NUMBER: ISW-AF-1000-LED-E1-SL4-7030-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 | 60° |
| 172.5° | 694.0 | 693.0 | 692.0 | 690.5 | 689.0 | 689.5 | 690.0 | 690.0 | 690.0 | 691.5 | 693.0 | 62.5° |
| 175° | 696.0 | 695.5 | 695.0 | 692.5 | 690.0 | 690.0 | 690.0 | 690.5 | 691.0 | 693.0 | 695.0 | 65° |
| 177.5° | 701.0 | 700.0 | 699.0 | 696.5 | 694.0 | 694.5 | 695.0 | 696.0 | 697.0 | 698.0 | 699.0 | 67.5° |
| 180° | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 69° |
| | | | | | | | | | | | | 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: P227039
 NUMBER: ISW-AF-1000-LED-E1-SL4-7030-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

| 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 803.0 | 803.0 | 803.0 | 803.0 | 803.0 |
| 747.0 | 749.4 | 739.2 | 743.9 | 740.8 |
| 665.3 | 661.4 | 660.6 | 658.3 | 653.6 |
| 569.6 | 566.5 | 557.2 | 560.3 | 553.3 |
| 470.8 | 470.0 | 452.9 | 453.7 | 445.1 |
| 379.7 | 365.7 | 358.7 | 348.6 | 354.1 |
| 294.1 | 282.5 | 267.7 | 263.8 | 269.2 |
| 221.8 | 210.1 | 203.1 | 196.9 | 194.5 |
| 183.6 | 176.6 | 172.7 | 170.4 | 168.9 |
| 177.4 | 175.9 | 175.1 | 173.5 | 172.7 |
| 173.5 | 175.1 | 175.1 | 175.1 | 173.5 |
| 169.6 | 172.7 | 173.5 | 172.7 | 171.2 |
| 165.7 | 168.1 | 168.1 | 167.3 | 165.0 |
| 160.3 | 162.6 | 162.6 | 161.9 | 160.3 |
| 154.1 | 155.6 | 156.4 | 156.4 | 157.2 |
| 149.4 | 151.0 | 152.5 | 154.1 | 156.4 |
| 144.0 | 146.3 | 147.1 | 150.2 | 153.3 |
| 137.0 | 140.1 | 141.6 | 144.0 | 147.1 |
| 130.0 | 133.8 | 134.6 | 137.7 | 140.8 |
| 126.8 | 130.0 | 130.0 | 132.3 | 134.6 |
| 122.9 | 124.5 | 123.7 | 125.3 | 126.1 |
| 119.1 | 120.6 | 119.8 | 121.4 | 122.2 |
| 115.9 | 117.5 | 119.1 | 120.6 | 121.4 |
| 117.5 | 119.8 | 120.6 | 122.9 | 123.7 |
| 124.5 | 127.6 | 130.7 | 133.8 | 136.2 |
| 131.5 | 135.4 | 142.4 | 156.4 | 161.9 |
| 135.4 | 140.8 | 157.2 | 181.3 | 188.3 |
| 133.1 | 140.1 | 159.5 | 185.2 | 193.8 |
| 128.4 | 133.8 | 154.9 | 181.3 | 189.1 |
| 122.2 | 127.6 | 148.6 | 177.4 | 184.4 |
| 98.8 | 101.9 | 125.3 | 152.5 | 157.2 |
| 72.4 | 74.7 | 92.6 | 103.5 | 102.7 |
| 56.0 | 59.1 | 65.4 | 66.1 | 65.4 |
| 44.4 | 45.9 | 49.0 | 49.0 | 49.8 |
| 34.2 | 35.0 | 36.6 | 35.0 | 34.2 |
| 25.7 | 24.9 | 24.1 | 23.3 | 22.6 |
| 14.8 | 14.8 | 12.5 | 10.9 | 10.1 |
| 9.1 | 9.3 | 8.3 | 6.6 | 5.0 |
| 5.5 | 5.0 | 4.5 | 4.0 | 4.0 |
| 6.5 | 6.0 | 5.5 | 5.0 | 5.0 |
| 8.0 | 8.0 | 7.5 | 7.0 | 7.0 |
| 9.5 | 9.0 | 8.5 | 8.0 | 8.0 |
| 15.5 | 13.0 | 12.0 | 11.0 | 11.0 |
| 31.5 | 27.0 | 24.5 | 22.0 | 21.0 |
| 53.5 | 49.0 | 45.5 | 42.0 | 41.0 |

CANDELA DISTRIBUTION:

| | 160° |
|--------|-------|
| 110° | 80.5 |
| 112.5° | 113.5 |
| 115° | 153.0 |
| 117.5° | 193.0 |
| 120° | 229.5 |
| 122.5° | 264.0 |
| 125° | 297.5 |
| 127.5° | 331.0 |
| 130° | 364.0 |
| 132.5° | 397.0 |
| 135° | 429.0 |
| 137.5° | 459.5 |
| 140° | 488.0 |
| 142.5° | 517.5 |
| 145° | 545.5 |
| 147.5° | 572.5 |
| 150° | 593.0 |
| 152.5° | 608.5 |
| 155° | 626.0 |
| 157.5° | 643.5 |
| 160° | 657.5 |
| 162.5° | 667.0 |
| 165° | 676.0 |
| 167.5° | 685.0 |
| 170° | 692.0 |
| 172.5° | 694.0 |
| 175° | 696.0 |
| 177.5° | 699.5 |
| 180° | 700.0 |



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ISW-AF-1000-LED-E1-SL4-7030-ULG

TION (continued):

| 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|
| 74.0 | 71.0 | 68.0 | 66.0 |
| 106.0 | 102.5 | 99.0 | 99.0 |
| 147.0 | 143.0 | 139.0 | 140.0 |
| 189.0 | 186.5 | 184.0 | 184.0 |
| 226.0 | 224.5 | 223.0 | 225.0 |
| 261.0 | 260.5 | 260.0 | 263.0 |
| 296.0 | 295.0 | 294.0 | 298.0 |
| 329.0 | 329.0 | 329.0 | 330.0 |
| 362.0 | 361.5 | 361.0 | 363.0 |
| 393.0 | 393.5 | 394.0 | 396.0 |
| 426.0 | 426.0 | 426.0 | 429.0 |
| 459.0 | 458.0 | 457.0 | 460.0 |
| 487.0 | 486.0 | 485.0 | 488.0 |
| 517.0 | 516.0 | 515.0 | 518.0 |
| 544.0 | 545.0 | 546.0 | 550.0 |
| 571.0 | 571.5 | 572.0 | 575.0 |
| 593.0 | 592.5 | 592.0 | 595.0 |
| 608.0 | 608.0 | 608.0 | 611.0 |
| 625.0 | 625.0 | 625.0 | 629.0 |
| 643.0 | 643.0 | 643.0 | 646.0 |
| 659.0 | 659.5 | 660.0 | 663.0 |
| 669.0 | 669.0 | 669.0 | 673.0 |
| 676.0 | 677.0 | 678.0 | 681.0 |
| 684.0 | 685.5 | 687.0 | 690.0 |
| 692.0 | 693.5 | 695.0 | 698.0 |
| 695.0 | 696.0 | 697.0 | 699.0 |
| 697.0 | 697.5 | 698.0 | 700.0 |
| 700.0 | 702.5 | 705.0 | 707.0 |
| 700.0 | 700.0 | 700.0 | 700.0 |

(END OF REPORT)