

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: P226648

Luminaire Tested: **ISW-AF-1000-LED-E1-T4W-7050-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226648  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35944)-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-T4W-7050-ULG  
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE, 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: 7798.8 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type IV - Medium - 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

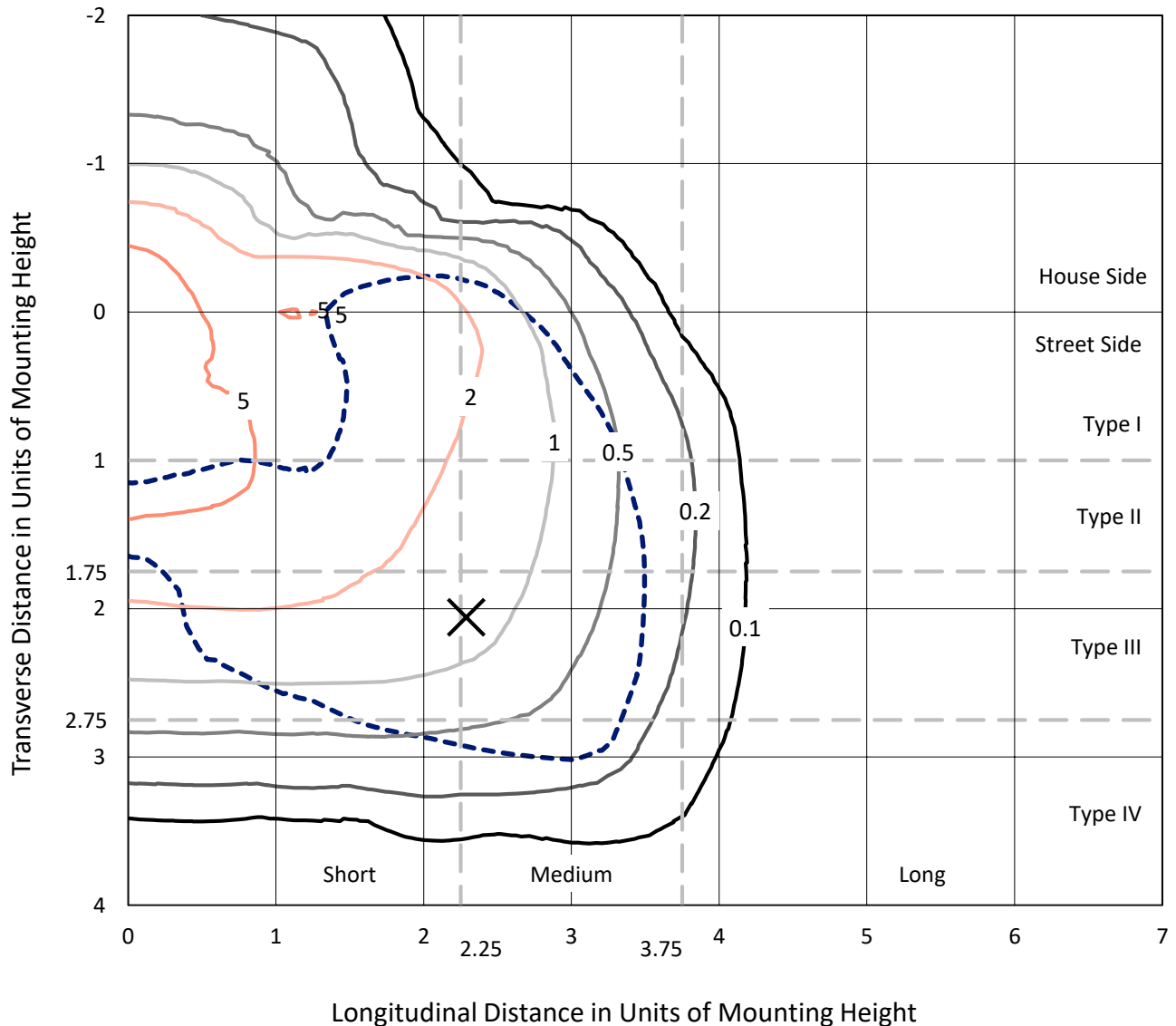


REPORT NUMBER: P226648

CATALOG NUMBER: ISW-AF-1000-LED-E1-T4W-7050-ULG

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

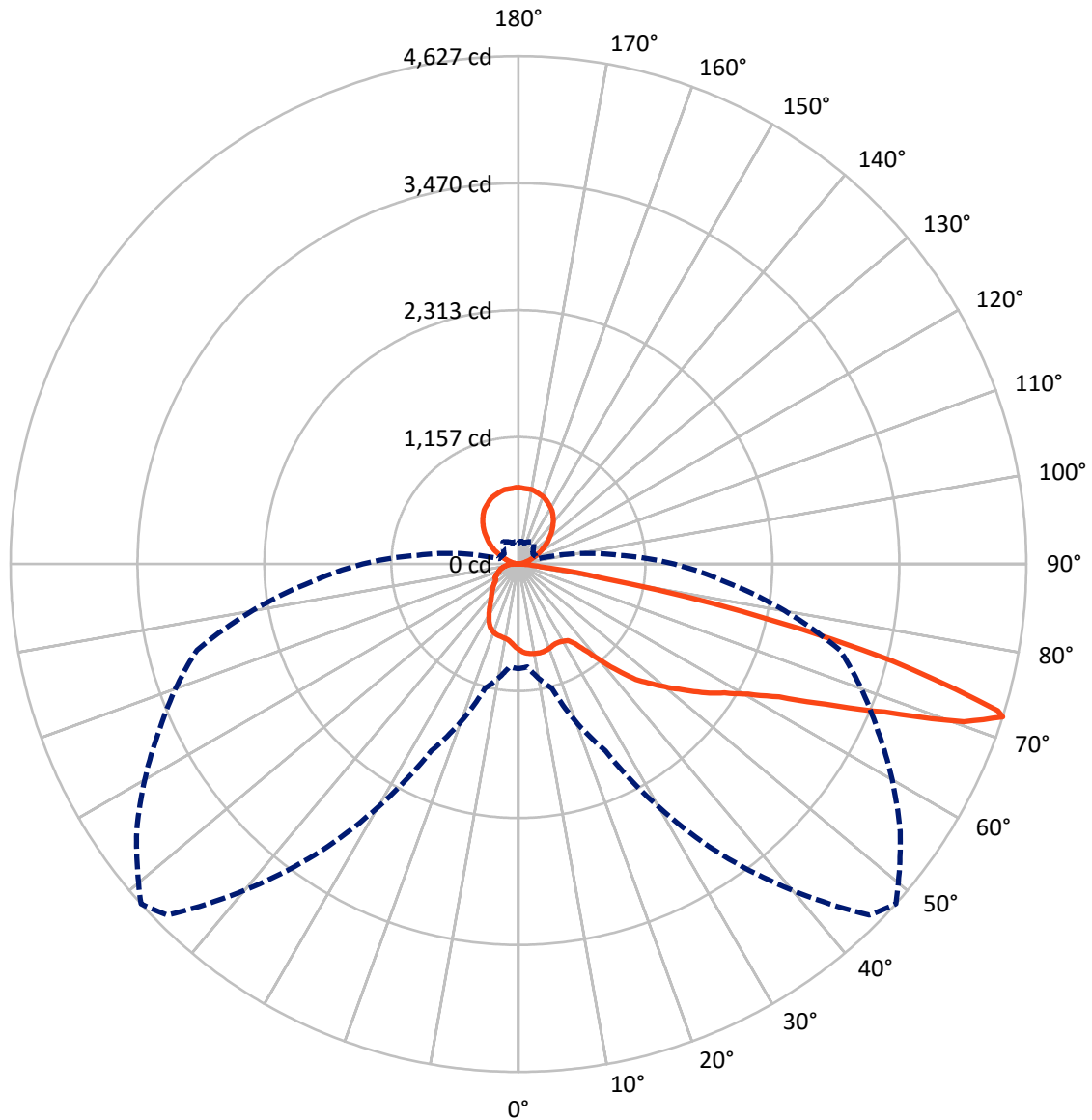


Based on 10 foot mounting height. Maximum calculated value = 8.7 fc  
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P226648

CATALOG NUMBER: ISW-AF-1000-LED-E1-T4W-7050-ULG

### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral    - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P226648

CATALOG NUMBER: ISW-AF-1000-LED-E1-T4W-7050-ULG

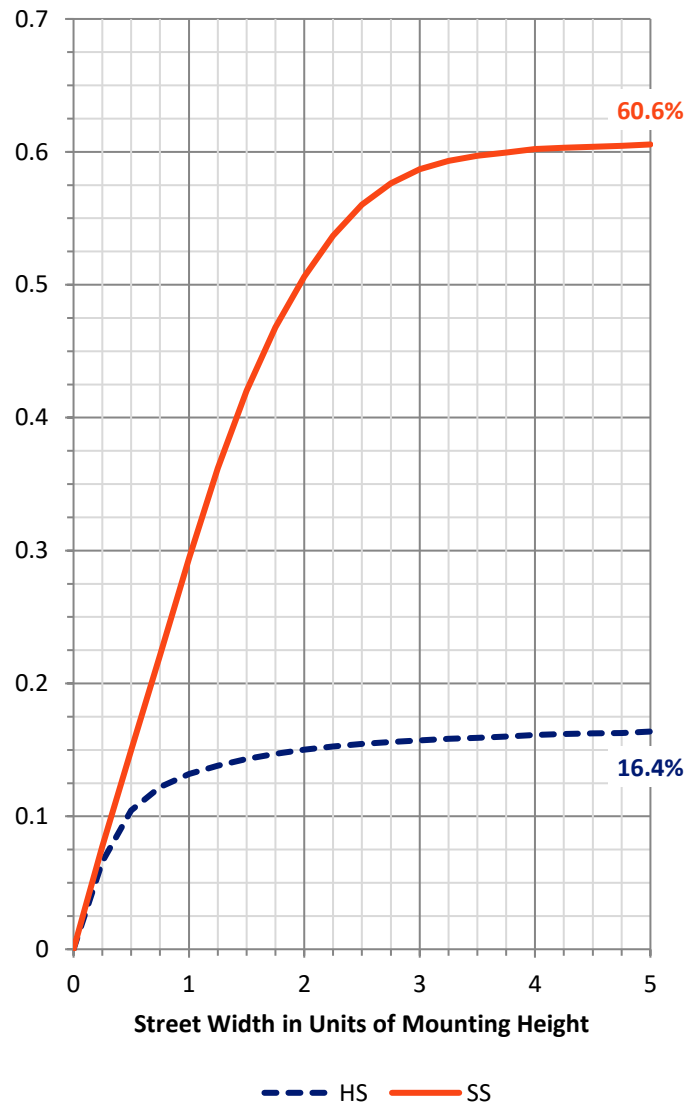
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1317.3   | 870.3  | 2187.6 |
|                    | % Fixture | 16.9     | 11.2   | 28.0   |
| <b>Street Side</b> | Lumens    | 4742.7   | 868.5  | 5611.3 |
|                    | % Fixture | 60.8     | 11.1   | 72.0   |
| <b>Total</b>       | Lumens    | 6060.0   | 1738.8 | 7798.8 |
|                    | % Fixture | 77.7     | 22.3   | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 73.7   | 0.9       |
| 10°-20°   | 215.4  | 2.8       |
| 20°-30°   | 332.2  | 4.3       |
| 30°-40°   | 497.9  | 6.4       |
| 40°-50°   | 829.1  | 10.6      |
| 50°-60°   | 1295.7 | 16.6      |
| 60°-70°   | 1711.5 | 21.9      |
| 70°-80°   | 990.0  | 12.7      |
| 80°-90°   | 114.5  | 1.5       |
| 90°-100°  | 12.9   | 0.2       |
| 100°-110° | 57.4   | 0.7       |
| 110°-120° | 166.1  | 2.1       |
| 120°-130° | 273.2  | 3.5       |
| 130°-140° | 336.8  | 4.3       |
| 140°-150° | 344.6  | 4.4       |
| 150°-160° | 290.3  | 3.7       |
| 160°-170° | 191.2  | 2.5       |
| 170°-180° | 66.3   | 0.8       |
| 0°-90°    | 6060.0 | 77.7      |
| 0°-180°   | 7798.8 | 100.0     |



REPORT NUMBER: P226648

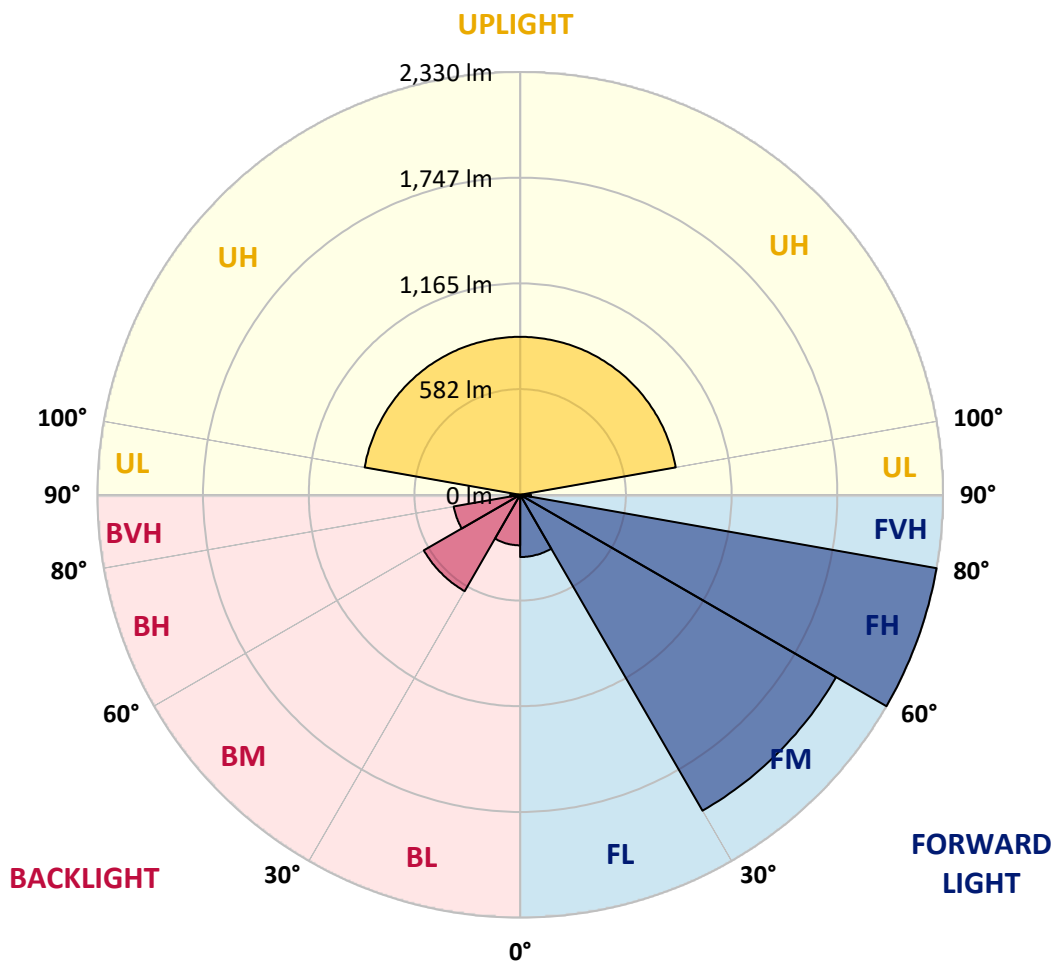
CATALOG NUMBER: ISW-AF-1000-LED-E1-T4W-7050-ULG

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |         |         |
|----------------|--------|-----------|-------------------------|---------|---------|
|                |        |           | B                       | U       | G       |
| FL (0°-30°)    | 342.8  | 4.4       |                         |         |         |
| FM (30°-60°)   | 2010.0 | 25.8      |                         |         |         |
| FH (60°-80°)   | 2329.9 | 29.9      |                         |         | G2/5000 |
| FVH (80°-90°)  | 60.1   | 0.8       |                         |         | G1/100  |
| BL (0°-30°)    | 278.6  | 3.6       | B1/500                  |         |         |
| BM (30°-60°)   | 612.7  | 7.9       | B1/1000                 |         |         |
| BH (60°-80°)   | 371.5  | 4.8       | B1/500                  |         | G1/500  |
| BVH (80°-90°)  | 54.4   | 0.7       |                         |         | G1/100  |
| UL (90°-100°)  | 12.9   | 0.2       |                         | U2/50   |         |
| UH (100°-180°) | 870.3  | 11.2      |                         | U4/1000 |         |

**BUG Rating: B1-U5-G2**

Type IV Medium





REPORT NUMBER: P226648

CATALOG NUMBER: ISW-AF-1000-LED-E1-T4W-7050-ULG

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 48°    | 55°    | 65°    | 75°    | 85°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 779.9  | 779.9  | 779.9  | 779.9  | 779.9  | 779.9  | 779.9  | 779.9  | 779.9  | 779.9  | 779.9  |
| 2.5°   | 821.3  | 820.4  | 820.4  | 813.4  | 810.7  | 806.3  | 802.8  | 797.5  | 792.2  | 786.1  | 778.2  |
| 5°     | 860.8  | 863.5  | 860.0  | 849.4  | 836.2  | 822.1  | 816.9  | 804.6  | 787.9  | 772.9  | 758.8  |
| 7.5°   | 898.6  | 899.5  | 889.8  | 872.3  | 852.0  | 830.1  | 823.0  | 806.3  | 787.9  | 767.6  | 747.4  |
| 10°    | 925.9  | 926.8  | 912.7  | 888.1  | 860.8  | 836.2  | 828.3  | 811.6  | 788.7  | 766.7  | 741.2  |
| 12.5°  | 941.7  | 942.6  | 921.5  | 896.0  | 863.5  | 838.8  | 831.8  | 814.2  | 790.5  | 762.4  | 734.2  |
| 15°    | 939.1  | 941.7  | 924.1  | 896.0  | 861.7  | 839.7  | 830.9  | 816.0  | 786.1  | 758.0  | 728.1  |
| 17.5°  | 921.5  | 925.0  | 911.0  | 880.2  | 852.9  | 835.3  | 825.7  | 810.7  | 781.7  | 751.8  | 719.3  |
| 20°    | 887.2  | 891.6  | 885.5  | 855.6  | 837.1  | 823.0  | 816.9  | 802.8  | 775.5  | 744.8  | 711.4  |
| 22.5°  | 848.5  | 852.9  | 851.2  | 826.5  | 817.7  | 810.7  | 804.6  | 794.0  | 770.3  | 739.5  | 707.8  |
| 25°    | 820.4  | 823.9  | 821.3  | 800.2  | 802.8  | 802.8  | 799.3  | 791.4  | 769.4  | 741.2  | 707.8  |
| 27.5°  | 867.0  | 867.0  | 844.1  | 801.0  | 796.6  | 804.6  | 802.8  | 798.4  | 780.8  | 750.0  | 714.9  |
| 30°    | 1037.6 | 1024.4 | 983.1  | 874.9  | 819.5  | 816.0  | 815.1  | 812.5  | 796.6  | 769.4  | 736.9  |
| 32.5°  | 1228.4 | 1215.2 | 1165.9 | 1030.5 | 915.3  | 839.7  | 831.8  | 832.7  | 828.3  | 802.8  | 770.3  |
| 35°    | 1398.1 | 1396.3 | 1357.6 | 1210.8 | 1063.9 | 923.3  | 891.6  | 870.5  | 868.7  | 858.2  | 832.7  |
| 37.5°  | 1535.3 | 1535.3 | 1538.8 | 1371.7 | 1224.9 | 1056.0 | 1002.4 | 935.6  | 935.6  | 929.4  | 913.6  |
| 40°    | 1691.8 | 1698.8 | 1706.7 | 1517.7 | 1397.2 | 1214.3 | 1153.6 | 1052.5 | 1021.7 | 1031.4 | 1034.9 |
| 42.5°  | 1897.5 | 1906.3 | 1901.0 | 1697.9 | 1554.6 | 1403.4 | 1328.6 | 1206.4 | 1130.8 | 1146.6 | 1183.5 |
| 45°    | 2036.5 | 2040.0 | 2077.8 | 1886.1 | 1752.4 | 1563.4 | 1500.1 | 1332.1 | 1257.4 | 1289.9 | 1355.0 |
| 47.5°  | 2193.8 | 2202.6 | 2208.8 | 2099.8 | 1984.6 | 1744.5 | 1628.5 | 1454.4 | 1406.0 | 1455.2 | 1558.1 |
| 50°    | 2347.7 | 2336.3 | 2353.0 | 2348.6 | 2204.4 | 1905.4 | 1767.4 | 1568.7 | 1572.2 | 1639.0 | 1807.8 |
| 52.5°  | 2481.4 | 2442.7 | 2481.4 | 2529.7 | 2487.5 | 2070.7 | 1909.8 | 1703.2 | 1754.2 | 1836.0 | 2102.4 |
| 55°    | 2584.3 | 2491.0 | 2556.1 | 2693.3 | 2683.6 | 2216.7 | 2072.5 | 1882.6 | 1967.9 | 2079.5 | 2460.3 |
| 57.5°  | 2374.1 | 2385.5 | 2564.9 | 2803.2 | 2798.8 | 2364.4 | 2215.0 | 2106.8 | 2211.4 | 2336.3 | 2884.1 |
| 60°    | 2178.0 | 2229.0 | 2506.0 | 2820.8 | 2878.8 | 2525.3 | 2406.6 | 2361.8 | 2458.5 | 2610.6 | 3290.3 |
| 62.5°  | 2074.3 | 2122.6 | 2410.2 | 2788.3 | 3006.3 | 2763.6 | 2664.3 | 2630.0 | 2761.9 | 2932.5 | 3652.6 |
| 65°    | 2106.8 | 2136.7 | 2404.0 | 2837.5 | 3153.2 | 3124.1 | 3081.1 | 3023.9 | 3089.9 | 3249.9 | 3816.2 |
| 67.5°  | 2015.3 | 2064.6 | 2353.0 | 2924.5 | 3421.3 | 3563.8 | 3599.8 | 3538.3 | 3482.9 | 3460.9 | 3577.9 |
| 70°    | 1500.1 | 1547.6 | 1850.0 | 2564.9 | 3641.2 | 4327.0 | 4305.0 | 4099.3 | 3726.5 | 3415.2 | 2795.3 |
| 72°    | 953.2  | 940.0  | 1171.2 | 1879.1 | 3236.7 | 4523.1 | 4626.9 | 4246.1 | 3615.7 | 3032.7 | 1898.4 |
| 72.5°  | 692.9  | 755.3  | 971.6  | 1670.7 | 3074.9 | 4415.8 | 4567.1 | 4198.6 | 3470.6 | 2864.8 | 1669.8 |
| 75°    | 168.8  | 178.5  | 233.0  | 598.8  | 1800.8 | 3322.9 | 3512.8 | 3243.7 | 2533.3 | 1700.6 | 740.4  |
| 77.5°  | 114.3  | 118.7  | 153.9  | 211.0  | 529.3  | 1894.9 | 2084.8 | 1791.1 | 1133.4 | 578.6  | 329.7  |
| 80°    | 85.3   | 87.9   | 111.7  | 149.5  | 219.8  | 646.3  | 762.4  | 605.8  | 282.3  | 320.9  | 234.8  |
| 82.5°  | 59.8   | 61.6   | 84.4   | 109.9  | 146.0  | 151.2  | 201.4  | 222.5  | 182.9  | 210.2  | 137.2  |
| 85°    | 41.3   | 41.3   | 61.6   | 75.6   | 92.3   | 74.7   | 80.0   | 111.7  | 124.0  | 124.9  | 83.5   |
| 87.5°  | 22.0   | 24.6   | 36.1   | 48.4   | 48.4   | 34.3   | 37.8   | 57.2   | 69.5   | 74.7   | 50.1   |
| 90°    | 12.9   | 12.9   | 21.9   | 26.5   | 19.4   | 15.8   | 14.9   | 18.4   | 25.7   | 32.7   | 22.8   |
| 92.5°  | 4.0    | 4.0    | 5.0    | 6.0    | 6.0    | 6.0    | 6.3    | 7.0    | 7.0    | 6.0    | 6.0    |
| 95°    | 5.0    | 5.0    | 6.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 8.0    | 7.0    | 7.0    |
| 97.5°  | 7.0    | 7.0    | 8.0    | 8.0    | 9.0    | 9.0    | 9.9    | 12.0   | 10.0   | 9.0    | 8.0    |
| 100°   | 8.0    | 8.0    | 9.0    | 10.0   | 12.0   | 21.0   | 23.4   | 29.0   | 26.0   | 23.0   | 19.0   |
| 102.5° | 11.0   | 11.0   | 13.0   | 18.0   | 27.0   | 40.0   | 43.0   | 50.0   | 47.0   | 42.0   | 39.0   |
| 105°   | 21.0   | 22.0   | 27.0   | 36.0   | 48.0   | 63.0   | 65.7   | 72.0   | 70.0   | 65.0   | 61.0   |
| 107.5° | 41.0   | 42.0   | 49.0   | 58.0   | 73.0   | 88.0   | 90.1   | 95.0   | 94.0   | 90.0   | 87.0   |



REPORT NUMBER: P226648

CATALOG NUMBER: ISW-AF-1000-LED-E1-T4W-7050-ULG

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 48°   | 55°   | 65°   | 75°   | 85°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 66.0  | 68.0  | 74.0  | 87.0  | 102.0 | 114.0 | 115.8 | 120.0 | 121.0 | 119.0 | 116.0 |
| 112.5° | 99.0  | 99.0  | 106.0 | 121.0 | 134.0 | 143.0 | 144.5 | 148.0 | 150.0 | 149.0 | 147.0 |
| 115°   | 140.0 | 139.0 | 147.0 | 159.0 | 168.0 | 174.0 | 175.5 | 179.0 | 182.0 | 179.0 | 177.0 |
| 117.5° | 184.0 | 184.0 | 189.0 | 197.0 | 202.0 | 205.0 | 206.8 | 211.0 | 215.0 | 210.0 | 208.0 |
| 120°   | 225.0 | 223.0 | 226.0 | 233.0 | 237.0 | 243.0 | 243.9 | 246.0 | 250.0 | 245.0 | 243.0 |
| 122.5° | 263.0 | 260.0 | 261.0 | 267.0 | 271.0 | 277.0 | 277.6 | 279.0 | 283.0 | 278.0 | 276.0 |
| 125°   | 298.0 | 294.0 | 296.0 | 299.0 | 305.0 | 310.0 | 310.9 | 313.0 | 315.0 | 310.0 | 310.0 |
| 127.5° | 330.0 | 329.0 | 329.0 | 333.0 | 339.0 | 340.0 | 341.5 | 345.0 | 346.0 | 346.0 | 345.0 |
| 130°   | 363.0 | 361.0 | 362.0 | 366.0 | 370.0 | 372.0 | 373.5 | 377.0 | 381.0 | 381.0 | 379.0 |
| 132.5° | 396.0 | 394.0 | 393.0 | 401.0 | 404.0 | 405.0 | 406.8 | 411.0 | 416.0 | 414.0 | 414.0 |
| 135°   | 429.0 | 426.0 | 426.0 | 432.0 | 435.0 | 437.0 | 438.8 | 443.0 | 448.0 | 447.0 | 450.0 |
| 137.5° | 460.0 | 457.0 | 459.0 | 460.0 | 464.0 | 468.0 | 469.5 | 473.0 | 475.0 | 476.0 | 481.0 |
| 140°   | 488.0 | 485.0 | 487.0 | 489.0 | 491.0 | 497.0 | 497.9 | 500.0 | 502.0 | 504.0 | 509.0 |
| 142.5° | 518.0 | 515.0 | 517.0 | 518.0 | 521.0 | 525.0 | 525.6 | 527.0 | 533.0 | 533.0 | 534.0 |
| 145°   | 550.0 | 546.0 | 544.0 | 547.0 | 550.0 | 551.0 | 552.5 | 556.0 | 562.0 | 561.0 | 558.0 |
| 147.5° | 575.0 | 572.0 | 571.0 | 574.0 | 574.0 | 575.0 | 576.5 | 580.0 | 585.0 | 586.0 | 583.0 |
| 150°   | 595.0 | 592.0 | 593.0 | 593.0 | 593.0 | 593.0 | 594.2 | 597.0 | 600.0 | 603.0 | 606.0 |
| 152.5° | 611.0 | 608.0 | 608.0 | 609.0 | 610.0 | 610.0 | 610.3 | 611.0 | 614.0 | 618.0 | 623.0 |
| 155°   | 629.0 | 625.0 | 625.0 | 627.0 | 630.0 | 628.0 | 627.4 | 626.0 | 631.0 | 636.0 | 638.0 |
| 157.5° | 646.0 | 643.0 | 643.0 | 644.0 | 646.0 | 645.0 | 644.7 | 644.0 | 648.0 | 650.0 | 650.0 |
| 160°   | 663.0 | 660.0 | 659.0 | 656.0 | 655.0 | 655.0 | 655.9 | 658.0 | 664.0 | 661.0 | 660.0 |
| 162.5° | 673.0 | 669.0 | 669.0 | 665.0 | 661.0 | 663.0 | 664.2 | 667.0 | 671.0 | 670.0 | 668.0 |
| 165°   | 681.0 | 678.0 | 676.0 | 676.0 | 673.0 | 673.0 | 672.7 | 672.0 | 677.0 | 680.0 | 678.0 |
| 167.5° | 690.0 | 687.0 | 684.0 | 686.0 | 688.0 | 685.0 | 682.9 | 678.0 | 684.0 | 688.0 | 688.0 |
| 170°   | 698.0 | 695.0 | 692.0 | 692.0 | 693.0 | 691.0 | 689.5 | 686.0 | 689.0 | 694.0 | 696.0 |
| 172.5° | 699.0 | 697.0 | 695.0 | 693.0 | 690.0 | 690.0 | 689.7 | 689.0 | 692.0 | 694.0 | 696.0 |
| 175°   | 700.0 | 698.0 | 697.0 | 695.0 | 691.0 | 690.0 | 690.0 | 690.0 | 695.0 | 696.0 | 694.0 |
| 177.5° | 707.0 | 705.0 | 700.0 | 699.0 | 697.0 | 695.0 | 694.7 | 694.0 | 699.0 | 701.0 | 698.0 |
| 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: P226648

CATALOG NUMBER: ISW-AF-1000-LED-E1-T4W-7050-ULG

**CANDELA DISTRIBUTION (continued):**

|        | 90°    | 95°    | 105°   | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 779.9  | 779.9  | 779.9  | 779.9 | 779.9 | 779.9 | 779.9 | 779.9 | 779.9 | 779.9 | 779.9 |
| 2.5°   | 776.4  | 771.1  | 764.1  | 760.6 | 758.8 | 755.3 | 751.8 | 750.0 | 750.0 | 746.5 | 747.4 |
| 5°     | 751.8  | 743.9  | 734.2  | 727.2 | 726.3 | 726.3 | 728.1 | 728.1 | 728.9 | 726.3 | 729.8 |
| 7.5°   | 739.5  | 730.7  | 716.6  | 708.7 | 702.6 | 701.7 | 705.2 | 712.2 | 715.7 | 713.1 | 716.6 |
| 10°    | 730.7  | 721.0  | 705.2  | 695.5 | 691.1 | 689.4 | 692.0 | 699.0 | 710.5 | 710.5 | 714.0 |
| 12.5°  | 721.9  | 709.6  | 693.8  | 686.7 | 683.2 | 684.1 | 687.6 | 692.9 | 705.2 | 709.6 | 711.4 |
| 15°    | 713.1  | 699.0  | 685.9  | 676.2 | 676.2 | 678.8 | 683.2 | 689.4 | 700.8 | 708.7 | 710.5 |
| 17.5°  | 704.3  | 690.2  | 678.8  | 670.9 | 670.9 | 674.4 | 678.8 | 686.7 | 694.6 | 706.1 | 706.1 |
| 20°    | 696.4  | 685.0  | 670.0  | 663.0 | 662.1 | 664.7 | 670.0 | 677.9 | 684.1 | 695.5 | 696.4 |
| 22.5°  | 692.0  | 677.9  | 663.9  | 653.3 | 648.9 | 647.2 | 652.4 | 660.4 | 666.5 | 677.9 | 679.7 |
| 25°    | 690.2  | 674.4  | 656.8  | 637.5 | 626.1 | 622.5 | 625.2 | 634.9 | 640.1 | 648.9 | 651.6 |
| 27.5°  | 696.4  | 681.5  | 654.2  | 619.0 | 595.3 | 585.6 | 588.2 | 594.4 | 596.2 | 605.8 | 610.2 |
| 30°    | 717.5  | 699.9  | 659.5  | 599.7 | 556.6 | 539.0 | 539.0 | 539.9 | 542.5 | 550.4 | 551.3 |
| 32.5°  | 751.8  | 735.1  | 675.3  | 579.5 | 517.0 | 492.4 | 486.3 | 481.9 | 481.9 | 481.0 | 481.9 |
| 35°    | 815.1  | 801.0  | 702.6  | 556.6 | 473.9 | 446.7 | 431.7 | 423.8 | 415.9 | 412.4 | 411.5 |
| 37.5°  | 906.6  | 894.2  | 741.2  | 530.2 | 436.1 | 408.9 | 390.4 | 374.6 | 365.8 | 364.9 | 369.3 |
| 40°    | 1042.8 | 1030.5 | 784.3  | 500.3 | 400.1 | 379.9 | 360.5 | 343.8 | 334.1 | 335.0 | 339.4 |
| 42.5°  | 1210.8 | 1173.0 | 830.9  | 459.9 | 371.1 | 360.5 | 339.4 | 325.3 | 315.7 | 310.4 | 309.5 |
| 45°    | 1406.9 | 1343.6 | 874.9  | 422.1 | 339.4 | 343.8 | 323.6 | 307.8 | 295.4 | 281.4 | 279.6 |
| 47.5°  | 1651.3 | 1514.2 | 913.6  | 384.3 | 305.1 | 326.2 | 306.9 | 291.9 | 273.5 | 256.8 | 254.1 |
| 50°    | 1906.3 | 1710.2 | 947.0  | 343.8 | 274.3 | 306.9 | 290.2 | 269.9 | 244.4 | 229.5 | 229.5 |
| 52.5°  | 2200.9 | 1945.9 | 990.1  | 299.0 | 250.6 | 285.8 | 269.1 | 242.7 | 221.6 | 219.8 | 219.8 |
| 55°    | 2528.9 | 2193.0 | 1020.0 | 263.8 | 232.1 | 262.9 | 255.0 | 247.1 | 240.0 | 241.8 | 242.7 |
| 57.5°  | 2871.8 | 2450.6 | 993.6  | 239.2 | 217.2 | 257.6 | 280.5 | 269.9 | 248.0 | 247.1 | 246.2 |
| 60°    | 3167.2 | 2651.1 | 847.6  | 223.3 | 205.8 | 266.4 | 300.7 | 269.9 | 248.0 | 259.4 | 260.3 |
| 62.5°  | 3360.7 | 2746.0 | 564.5  | 203.1 | 189.0 | 251.5 | 293.7 | 262.0 | 248.8 | 281.4 | 284.0 |
| 65°    | 3334.3 | 2639.7 | 324.5  | 189.0 | 178.5 | 231.3 | 284.0 | 252.4 | 232.1 | 250.6 | 245.3 |
| 67.5°  | 2941.2 | 2212.3 | 234.8  | 182.9 | 170.6 | 217.2 | 266.4 | 238.3 | 216.3 | 239.2 | 229.5 |
| 70°    | 2113.8 | 1506.2 | 202.2  | 177.6 | 165.3 | 200.5 | 254.1 | 229.5 | 207.5 | 223.3 | 208.4 |
| 72°    | 1418.3 | 916.2  | 185.5  | 173.2 | 160.0 | 189.9 | 245.3 | 222.5 | 199.6 | 208.4 | 191.7 |
| 72.5°  | 1207.3 | 722.8  | 181.1  | 171.5 | 158.3 | 187.3 | 242.7 | 220.7 | 197.8 | 206.6 | 190.8 |
| 75°    | 451.1  | 283.1  | 160.9  | 158.3 | 146.0 | 174.1 | 232.1 | 212.8 | 189.0 | 186.4 | 179.4 |
| 77.5°  | 232.1  | 179.4  | 137.2  | 139.8 | 131.0 | 159.2 | 220.7 | 200.5 | 174.1 | 164.4 | 160.9 |
| 80°    | 168.8  | 130.1  | 110.8  | 118.7 | 111.7 | 143.3 | 204.9 | 182.0 | 158.3 | 147.7 | 143.3 |
| 82.5°  | 106.4  | 80.9   | 84.4   | 94.1  | 95.0  | 126.6 | 186.4 | 163.5 | 140.7 | 131.9 | 124.9 |
| 85°    | 51.0   | 48.4   | 59.8   | 69.5  | 76.5  | 107.3 | 170.6 | 145.1 | 123.1 | 105.5 | 106.4 |
| 87.5°  | 27.3   | 36.9   | 36.1   | 46.6  | 58.9  | 87.9  | 151.2 | 118.7 | 98.5  | 79.1  | 80.0  |
| 90°    | 13.2   | 16.7   | 19.6   | 27.5  | 30.7  | 44.8  | 105.6 | 75.7  | 72.9  | 33.1  | 29.6  |
| 92.5°  | 6.0    | 6.0    | 6.0    | 7.0   | 7.0   | 6.0   | 6.0   | 6.0   | 5.0   | 4.0   | 4.0   |
| 95°    | 7.0    | 7.0    | 7.0    | 8.0   | 7.0   | 7.0   | 7.0   | 7.0   | 6.0   | 5.0   | 5.0   |
| 97.5°  | 8.0    | 8.0    | 9.0    | 10.0  | 12.0  | 9.0   | 9.0   | 8.0   | 8.0   | 7.0   | 7.0   |
| 100°   | 19.0   | 19.0   | 23.0   | 26.0  | 29.0  | 21.0  | 12.0  | 10.0  | 9.0   | 8.0   | 8.0   |
| 102.5° | 38.0   | 39.0   | 42.0   | 47.0  | 50.0  | 40.0  | 27.0  | 18.0  | 13.0  | 11.0  | 11.0  |
| 105°   | 61.0   | 61.0   | 65.0   | 70.0  | 72.0  | 63.0  | 48.0  | 36.0  | 27.0  | 22.0  | 21.0  |
| 107.5° | 86.0   | 87.0   | 90.0   | 94.0  | 95.0  | 88.0  | 73.0  | 58.0  | 49.0  | 42.0  | 41.0  |



REPORT NUMBER: P226648

CATALOG NUMBER: ISW-AF-1000-LED-E1-T4W-7050-ULG

**CANDELA DISTRIBUTION (continued):**

|        | 90°   | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 117.0 | 116.0 | 119.0 | 121.0 | 120.0 | 114.0 | 102.0 | 87.0  | 74.0  | 68.0  | 66.0  |
| 112.5° | 147.0 | 147.0 | 149.0 | 150.0 | 148.0 | 143.0 | 134.0 | 121.0 | 106.0 | 99.0  | 99.0  |
| 115°   | 178.0 | 177.0 | 179.0 | 182.0 | 179.0 | 174.0 | 168.0 | 159.0 | 147.0 | 139.0 | 140.0 |
| 117.5° | 209.0 | 208.0 | 210.0 | 215.0 | 211.0 | 205.0 | 202.0 | 197.0 | 189.0 | 184.0 | 184.0 |
| 120°   | 243.0 | 243.0 | 245.0 | 250.0 | 246.0 | 243.0 | 237.0 | 233.0 | 226.0 | 223.0 | 225.0 |
| 122.5° | 277.0 | 276.0 | 278.0 | 283.0 | 279.0 | 277.0 | 271.0 | 267.0 | 261.0 | 260.0 | 263.0 |
| 125°   | 310.0 | 310.0 | 310.0 | 315.0 | 313.0 | 310.0 | 305.0 | 299.0 | 296.0 | 294.0 | 298.0 |
| 127.5° | 347.0 | 345.0 | 346.0 | 346.0 | 345.0 | 340.0 | 339.0 | 333.0 | 329.0 | 329.0 | 330.0 |
| 130°   | 380.0 | 379.0 | 381.0 | 381.0 | 377.0 | 372.0 | 370.0 | 366.0 | 362.0 | 361.0 | 363.0 |
| 132.5° | 415.0 | 414.0 | 414.0 | 416.0 | 411.0 | 405.0 | 404.0 | 401.0 | 393.0 | 394.0 | 396.0 |
| 135°   | 451.0 | 450.0 | 447.0 | 448.0 | 443.0 | 437.0 | 435.0 | 432.0 | 426.0 | 426.0 | 429.0 |
| 137.5° | 482.0 | 481.0 | 476.0 | 475.0 | 473.0 | 468.0 | 464.0 | 460.0 | 459.0 | 457.0 | 460.0 |
| 140°   | 511.0 | 509.0 | 504.0 | 502.0 | 500.0 | 497.0 | 491.0 | 489.0 | 487.0 | 485.0 | 488.0 |
| 142.5° | 536.0 | 534.0 | 533.0 | 533.0 | 527.0 | 525.0 | 521.0 | 518.0 | 517.0 | 515.0 | 518.0 |
| 145°   | 560.0 | 558.0 | 561.0 | 562.0 | 556.0 | 551.0 | 550.0 | 547.0 | 544.0 | 546.0 | 550.0 |
| 147.5° | 585.0 | 583.0 | 586.0 | 585.0 | 580.0 | 575.0 | 574.0 | 574.0 | 571.0 | 572.0 | 575.0 |
| 150°   | 610.0 | 606.0 | 603.0 | 600.0 | 597.0 | 593.0 | 593.0 | 593.0 | 593.0 | 592.0 | 595.0 |
| 152.5° | 628.0 | 623.0 | 618.0 | 614.0 | 611.0 | 610.0 | 610.0 | 609.0 | 608.0 | 608.0 | 611.0 |
| 155°   | 641.0 | 638.0 | 636.0 | 631.0 | 626.0 | 628.0 | 630.0 | 627.0 | 625.0 | 625.0 | 629.0 |
| 157.5° | 655.0 | 650.0 | 650.0 | 648.0 | 644.0 | 645.0 | 646.0 | 644.0 | 643.0 | 643.0 | 646.0 |
| 160°   | 666.0 | 660.0 | 661.0 | 664.0 | 658.0 | 655.0 | 655.0 | 656.0 | 659.0 | 660.0 | 663.0 |
| 162.5° | 674.0 | 668.0 | 670.0 | 671.0 | 667.0 | 663.0 | 661.0 | 665.0 | 669.0 | 669.0 | 673.0 |
| 165°   | 682.0 | 678.0 | 680.0 | 677.0 | 672.0 | 673.0 | 673.0 | 676.0 | 676.0 | 678.0 | 681.0 |
| 167.5° | 694.0 | 688.0 | 688.0 | 684.0 | 678.0 | 685.0 | 688.0 | 686.0 | 684.0 | 687.0 | 690.0 |
| 170°   | 701.0 | 696.0 | 694.0 | 689.0 | 686.0 | 691.0 | 693.0 | 692.0 | 692.0 | 695.0 | 698.0 |
| 172.5° | 701.0 | 696.0 | 694.0 | 692.0 | 689.0 | 690.0 | 690.0 | 693.0 | 695.0 | 697.0 | 699.0 |
| 175°   | 699.0 | 694.0 | 696.0 | 695.0 | 690.0 | 690.0 | 691.0 | 695.0 | 697.0 | 698.0 | 700.0 |
| 177.5° | 702.0 | 698.0 | 701.0 | 699.0 | 694.0 | 695.0 | 697.0 | 699.0 | 700.0 | 705.0 | 707.0 |
| 180°   | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 |

(END OF REPORT)