

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: P226646

Luminaire Tested: **ISW-AF-1000-LED-E1-T4W-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226646
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-8030-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE, WITH UPLIGHT GLOW
Light Source: (16) 3000K CCT, 80 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6683.3 lumens
Efficiency: N/A
Efficacy: 93.7 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

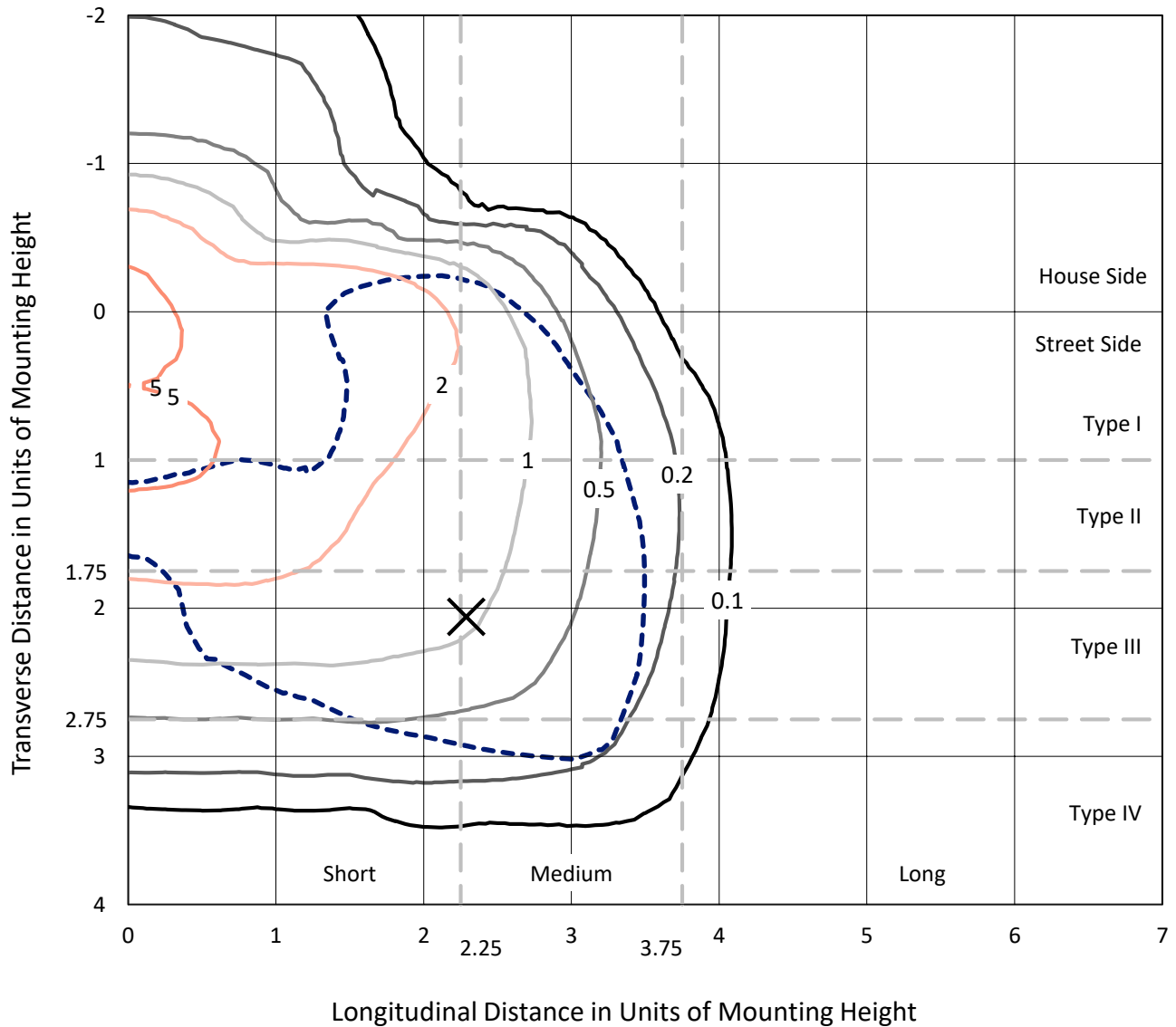


REPORT NUMBER: P226646

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

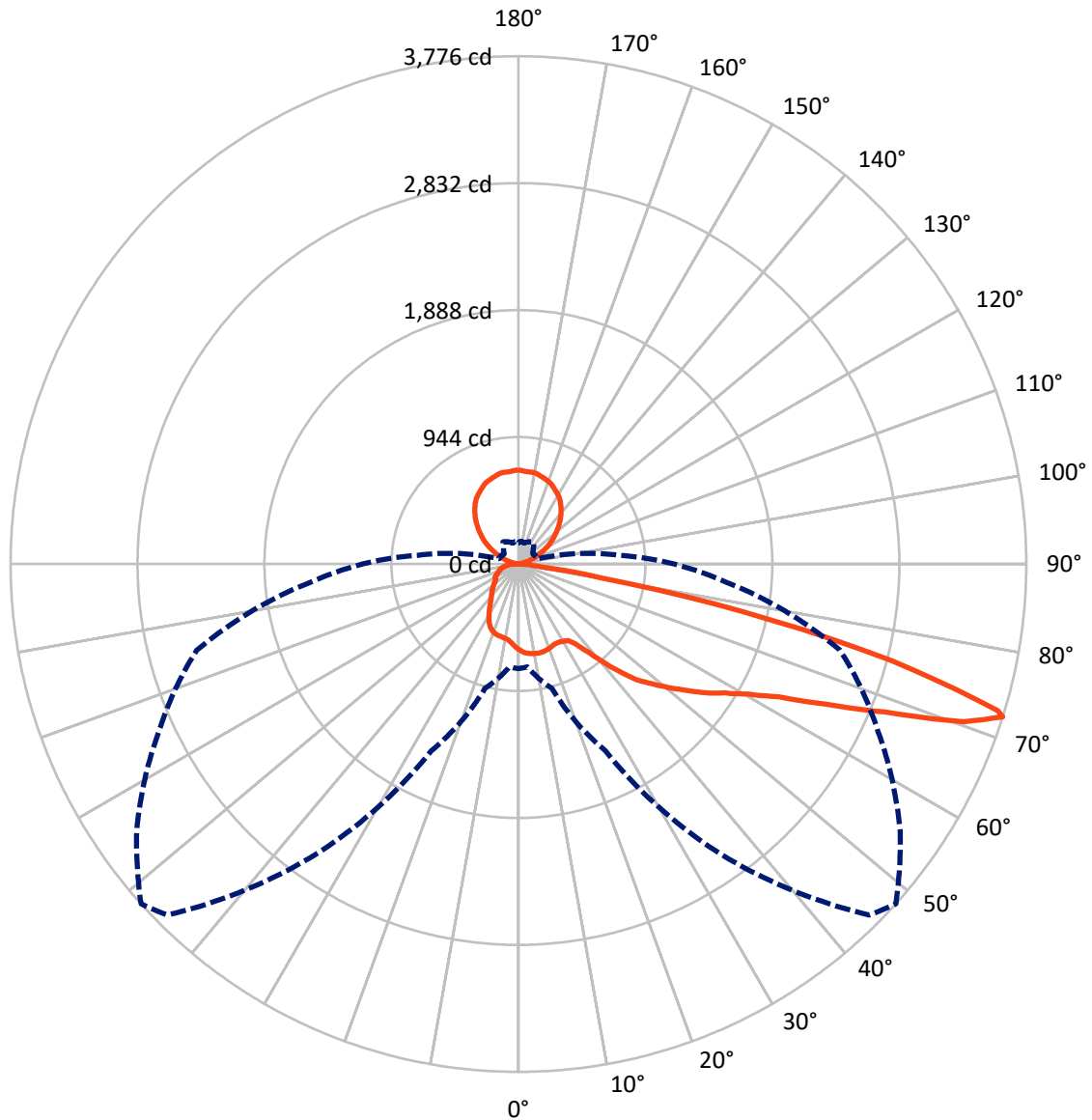


Based on 10 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P226646

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Luminous Intensity Polar Plot



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

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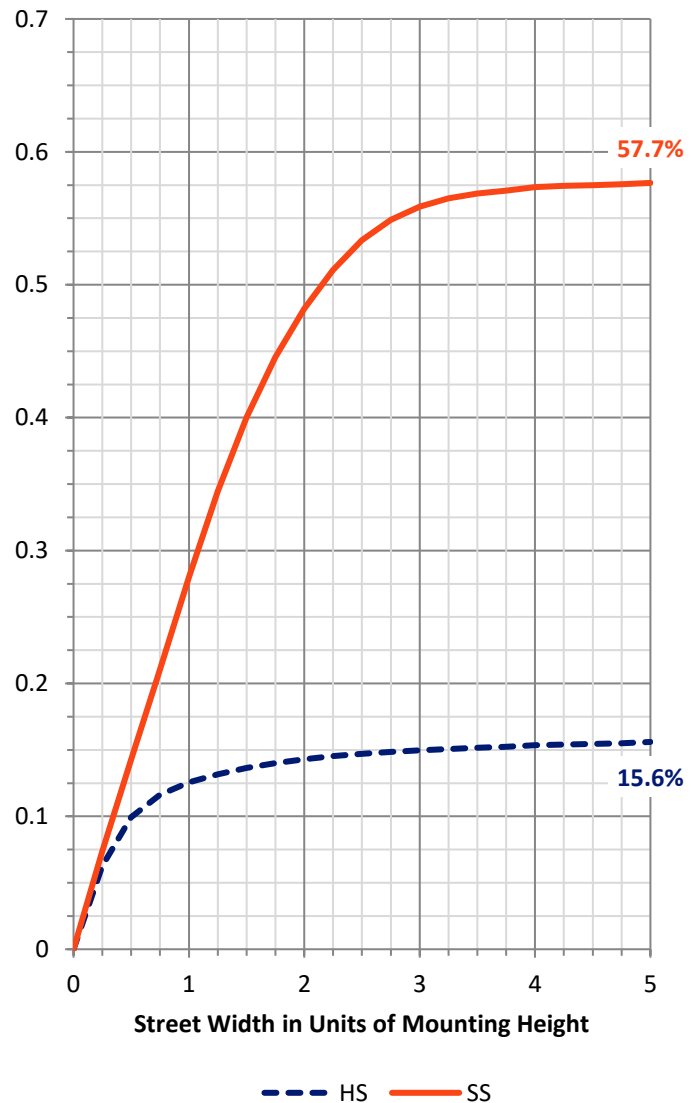
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1075.0 | 869.8 | 1944.8 |
| | % Fixture | 16.1 | 13.0 | 29.1 |
| Street Side | Lumens | 3870.2 | 868.4 | 4738.5 |
| | % Fixture | 57.9 | 13.0 | 70.9 |
| Total | Lumens | 4945.2 | 1738.1 | 6683.3 |
| | % Fixture | 74.0 | 26.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 60.2 | 0.9 |
| 10°-20° | 175.8 | 2.6 |
| 20°-30° | 271.1 | 4.1 |
| 30°-40° | 406.3 | 6.1 |
| 40°-50° | 676.6 | 10.1 |
| 50°-60° | 1057.3 | 15.8 |
| 60°-70° | 1396.5 | 20.9 |
| 70°-80° | 807.9 | 12.1 |
| 80°-90° | 93.6 | 1.4 |
| 90°-100° | 12.3 | 0.2 |
| 100°-110° | 57.4 | 0.9 |
| 110°-120° | 166.1 | 2.5 |
| 120°-130° | 273.2 | 4.1 |
| 130°-140° | 336.8 | 5.0 |
| 140°-150° | 344.6 | 5.2 |
| 150°-160° | 290.3 | 4.3 |
| 160°-170° | 191.2 | 2.9 |
| 170°-180° | 66.3 | 1.0 |
| 0°-90° | 4945.2 | 74.0 |
| 0°-180° | 6683.3 | 100.0 |



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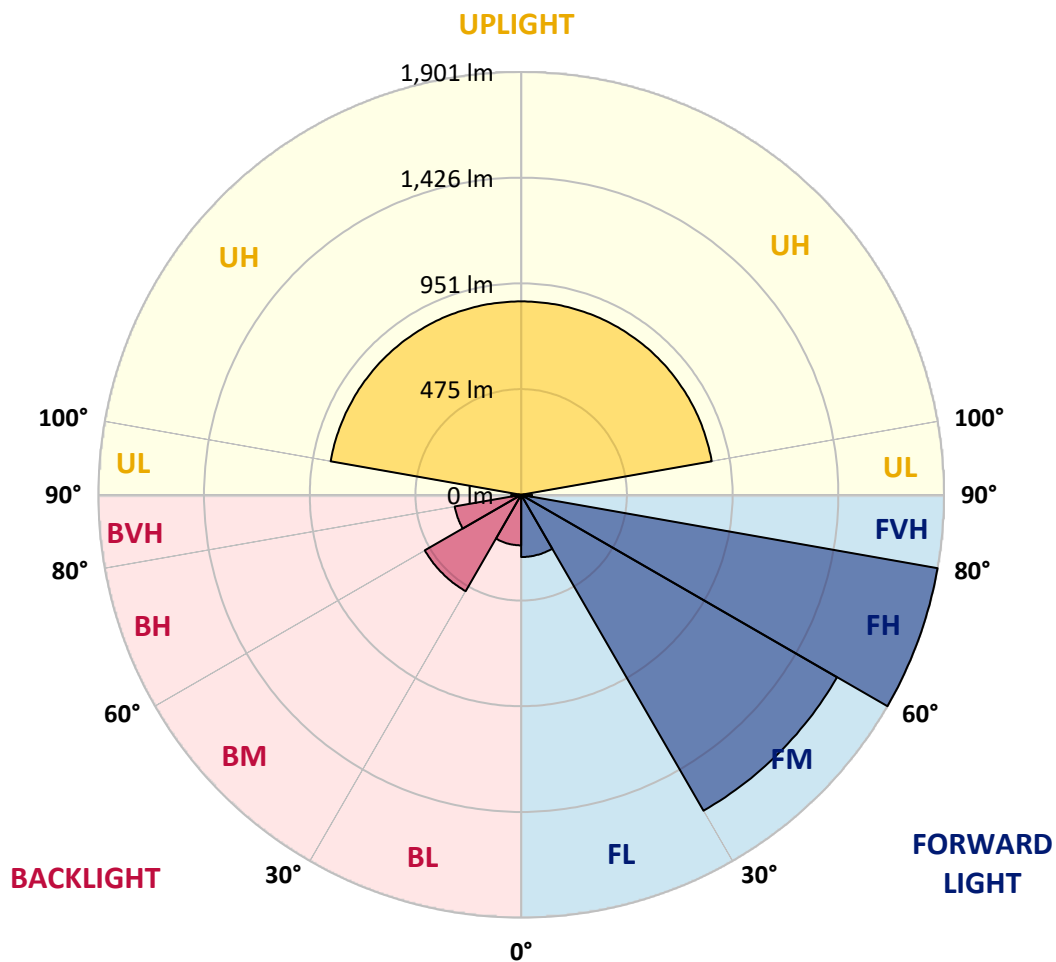
CATALOG NUMBER: ISW-AF-1000-LED-E1-T4W-8030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|---------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 279.7 | 4.2 | | | |
| FM | (30°-60°) | 1640.1 | 24.5 | | | |
| FH | (60°-80°) | 1901.2 | 28.4 | | | G2/5000 |
| FVH | (80°-90°) | 49.1 | 0.7 | | | G1/100 |
| BL | (0°-30°) | 227.3 | 3.4 | B1/500 | | |
| BM | (30°-60°) | 500.0 | 7.5 | B1/1000 | | |
| BH | (60°-80°) | 303.2 | 4.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 44.5 | 0.7 | | | G1/100 |
| UL | (90°-100°) | 12.3 | 0.2 | | U2/50 | |
| UH | (100°-180°) | 869.8 | 13.0 | | U4/1000 | |

BUG Rating: B1-U5-G2

Type IV Medium





REPORT NUMBER: P226646

CATALOG NUMBER: ISW-AF-1000-LED-E1-T4W-8030-ULG

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 48° | 55° | 65° | 75° | 85° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 636.4 | 636.4 | 636.4 | 636.4 | 636.4 | 636.4 | 636.4 | 636.4 | 636.4 | 636.4 | 636.4 |
| 2.5° | 670.2 | 669.4 | 669.4 | 663.7 | 661.5 | 658.0 | 655.1 | 650.8 | 646.5 | 641.5 | 635.0 |
| 5° | 702.4 | 704.6 | 701.7 | 693.1 | 682.3 | 670.9 | 666.6 | 656.5 | 642.9 | 630.7 | 619.2 |
| 7.5° | 733.3 | 734.0 | 726.1 | 711.8 | 695.3 | 677.3 | 671.6 | 658.0 | 642.9 | 626.4 | 609.9 |
| 10° | 755.5 | 756.3 | 744.8 | 724.7 | 702.4 | 682.3 | 675.9 | 662.3 | 643.6 | 625.7 | 604.9 |
| 12.5° | 768.4 | 769.2 | 751.9 | 731.1 | 704.6 | 684.5 | 678.8 | 664.4 | 645.0 | 622.1 | 599.1 |
| 15° | 766.3 | 768.4 | 754.1 | 731.1 | 703.2 | 685.2 | 678.0 | 665.8 | 641.5 | 618.5 | 594.1 |
| 17.5° | 751.9 | 754.8 | 743.3 | 718.2 | 696.0 | 681.6 | 673.7 | 661.5 | 637.9 | 613.5 | 586.9 |
| 20° | 724.0 | 727.6 | 722.5 | 698.1 | 683.1 | 671.6 | 666.6 | 655.1 | 632.8 | 607.7 | 580.5 |
| 22.5° | 692.4 | 696.0 | 694.5 | 674.5 | 667.3 | 661.5 | 656.5 | 647.9 | 628.5 | 603.4 | 577.6 |
| 25° | 669.4 | 672.3 | 670.2 | 652.9 | 655.1 | 655.1 | 652.2 | 645.8 | 627.8 | 604.9 | 577.6 |
| 27.5° | 707.5 | 707.5 | 688.8 | 653.6 | 650.1 | 656.5 | 655.1 | 651.5 | 637.1 | 612.0 | 583.3 |
| 30° | 846.7 | 835.9 | 802.2 | 713.9 | 668.7 | 665.8 | 665.1 | 663.0 | 650.1 | 627.8 | 601.3 |
| 32.5° | 1002.4 | 991.6 | 951.4 | 840.9 | 746.9 | 685.2 | 678.8 | 679.5 | 675.9 | 655.1 | 628.5 |
| 35° | 1140.8 | 1139.4 | 1107.8 | 988.0 | 868.2 | 753.4 | 727.6 | 710.3 | 708.9 | 700.3 | 679.5 |
| 37.5° | 1252.8 | 1252.8 | 1255.6 | 1119.3 | 999.5 | 861.7 | 818.0 | 763.4 | 763.4 | 758.4 | 745.5 |
| 40° | 1380.5 | 1386.2 | 1392.7 | 1238.4 | 1140.1 | 990.9 | 941.4 | 858.9 | 833.7 | 841.6 | 844.5 |
| 42.5° | 1548.4 | 1555.6 | 1551.2 | 1385.5 | 1268.6 | 1145.1 | 1084.2 | 984.4 | 922.7 | 935.6 | 965.8 |
| 45° | 1661.7 | 1664.6 | 1695.5 | 1539.1 | 1430.0 | 1275.7 | 1224.1 | 1087.0 | 1026.0 | 1052.6 | 1105.7 |
| 47.5° | 1790.2 | 1797.4 | 1802.4 | 1713.4 | 1619.4 | 1423.5 | 1328.8 | 1186.8 | 1147.3 | 1187.5 | 1271.4 |
| 50° | 1915.7 | 1906.4 | 1920.0 | 1916.5 | 1798.8 | 1554.8 | 1442.2 | 1280.0 | 1282.9 | 1337.4 | 1475.2 |
| 52.5° | 2024.8 | 1993.2 | 2024.8 | 2064.3 | 2029.8 | 1689.7 | 1558.4 | 1389.8 | 1431.4 | 1498.2 | 1715.6 |
| 55° | 2108.8 | 2032.7 | 2085.8 | 2197.7 | 2189.8 | 1808.8 | 1691.2 | 1536.2 | 1605.8 | 1696.9 | 2007.6 |
| 57.5° | 1937.3 | 1946.6 | 2093.0 | 2287.4 | 2283.8 | 1929.4 | 1807.4 | 1719.1 | 1804.5 | 1906.4 | 2353.4 |
| 60° | 1777.3 | 1818.9 | 2044.9 | 2301.8 | 2349.1 | 2060.7 | 1963.8 | 1927.2 | 2006.1 | 2130.3 | 2684.9 |
| 62.5° | 1692.6 | 1732.1 | 1966.7 | 2275.2 | 2453.2 | 2255.1 | 2174.0 | 2146.1 | 2253.7 | 2392.9 | 2980.5 |
| 65° | 1719.1 | 1743.5 | 1961.7 | 2315.4 | 2573.0 | 2549.3 | 2514.1 | 2467.5 | 2521.3 | 2651.9 | 3114.0 |
| 67.5° | 1644.5 | 1684.7 | 1920.0 | 2386.4 | 2791.8 | 2908.1 | 2937.5 | 2887.2 | 2842.0 | 2824.1 | 2919.5 |
| 70° | 1224.1 | 1262.8 | 1509.6 | 2093.0 | 2971.2 | 3530.9 | 3512.9 | 3345.0 | 3040.8 | 2786.8 | 2281.0 |
| 72° | 777.8 | 767.0 | 955.7 | 1533.3 | 2641.1 | 3690.9 | 3775.5 | 3464.8 | 2950.4 | 2474.7 | 1549.1 |
| 72.5° | 565.4 | 616.3 | 792.8 | 1363.3 | 2509.1 | 3603.3 | 3726.7 | 3426.1 | 2832.0 | 2337.6 | 1362.5 |
| 75° | 137.8 | 145.7 | 190.1 | 488.6 | 1469.5 | 2711.5 | 2866.4 | 2646.9 | 2067.1 | 1387.7 | 604.1 |
| 77.5° | 93.3 | 96.9 | 125.6 | 172.2 | 431.9 | 1546.2 | 1701.2 | 1461.6 | 924.9 | 472.1 | 269.1 |
| 80° | 69.6 | 71.8 | 91.1 | 122.0 | 179.4 | 527.4 | 622.1 | 494.4 | 230.3 | 261.9 | 191.6 |
| 82.5° | 48.8 | 50.2 | 68.9 | 89.7 | 119.1 | 123.4 | 164.3 | 181.5 | 149.2 | 171.5 | 111.9 |
| 85° | 33.7 | 33.7 | 50.2 | 61.7 | 75.3 | 61.0 | 65.3 | 91.1 | 101.2 | 101.9 | 68.2 |
| 87.5° | 17.9 | 20.1 | 29.4 | 39.5 | 39.5 | 28.0 | 30.9 | 46.6 | 56.7 | 61.0 | 40.9 |
| 90° | 11.5 | 11.5 | 19.2 | 23.1 | 17.3 | 14.2 | 13.5 | 16.3 | 22.6 | 28.4 | 19.9 |
| 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: P226646

CATALOG NUMBER: ISW-AF-1000-LED-E1-T4W-8030-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 |



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CATALOG NUMBER: ISW-AF-1000-LED-E1-T4W-8030-ULG

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 636.4 | 636.4 | 636.4 | 636.4 | 636.4 | 636.4 | 636.4 | 636.4 | 636.4 | 636.4 | 636.4 |
| 2.5° | 633.6 | 629.3 | 623.5 | 620.6 | 619.2 | 616.3 | 613.5 | 612.0 | 612.0 | 609.2 | 609.9 |
| 5° | 613.5 | 607.0 | 599.1 | 593.4 | 592.7 | 592.7 | 594.1 | 594.1 | 594.8 | 592.7 | 595.5 |
| 7.5° | 603.4 | 596.2 | 584.8 | 578.3 | 573.3 | 572.6 | 575.4 | 581.2 | 584.1 | 581.9 | 584.8 |
| 10° | 596.2 | 588.4 | 575.4 | 567.5 | 564.0 | 562.5 | 564.7 | 570.4 | 579.7 | 579.7 | 582.6 |
| 12.5° | 589.1 | 579.0 | 566.1 | 560.4 | 557.5 | 558.2 | 561.1 | 565.4 | 575.4 | 579.0 | 580.5 |
| 15° | 581.9 | 570.4 | 559.7 | 551.8 | 551.8 | 553.9 | 557.5 | 562.5 | 571.9 | 578.3 | 579.7 |
| 17.5° | 574.7 | 563.2 | 553.9 | 547.5 | 547.5 | 550.3 | 553.9 | 560.4 | 566.8 | 576.2 | 576.2 |
| 20° | 568.3 | 558.9 | 546.7 | 541.0 | 540.3 | 542.4 | 546.7 | 553.2 | 558.2 | 567.5 | 568.3 |
| 22.5° | 564.7 | 553.2 | 541.7 | 533.1 | 529.5 | 528.1 | 532.4 | 538.8 | 543.9 | 553.2 | 554.6 |
| 25° | 563.2 | 550.3 | 536.0 | 520.2 | 510.9 | 508.0 | 510.1 | 518.0 | 522.3 | 529.5 | 531.7 |
| 27.5° | 568.3 | 556.1 | 533.8 | 505.1 | 485.8 | 477.9 | 480.0 | 485.0 | 486.5 | 494.4 | 497.9 |
| 30° | 585.5 | 571.1 | 538.1 | 489.3 | 454.2 | 439.8 | 439.8 | 440.5 | 442.7 | 449.2 | 449.9 |
| 32.5° | 613.5 | 599.8 | 551.0 | 472.8 | 421.9 | 401.8 | 396.8 | 393.2 | 393.2 | 392.5 | 393.2 |
| 35° | 665.1 | 653.6 | 573.3 | 454.2 | 386.7 | 364.5 | 352.3 | 345.8 | 339.4 | 336.5 | 335.8 |
| 37.5° | 739.7 | 729.7 | 604.9 | 432.7 | 355.9 | 333.6 | 318.6 | 305.7 | 298.5 | 297.8 | 301.4 |
| 40° | 851.0 | 840.9 | 640.0 | 408.3 | 326.5 | 310.0 | 294.2 | 280.5 | 272.7 | 273.4 | 277.0 |
| 42.5° | 988.0 | 957.2 | 678.0 | 375.3 | 302.8 | 294.2 | 277.0 | 265.5 | 257.6 | 253.3 | 252.6 |
| 45° | 1148.0 | 1096.4 | 713.9 | 344.4 | 277.0 | 280.5 | 264.0 | 251.1 | 241.1 | 229.6 | 228.2 |
| 47.5° | 1347.5 | 1235.5 | 745.5 | 313.6 | 249.0 | 266.2 | 250.4 | 238.2 | 223.1 | 209.5 | 207.4 |
| 50° | 1555.6 | 1395.6 | 772.8 | 280.5 | 223.9 | 250.4 | 236.8 | 220.3 | 199.5 | 187.3 | 187.3 |
| 52.5° | 1795.9 | 1587.8 | 807.9 | 244.0 | 204.5 | 233.2 | 219.6 | 198.0 | 180.8 | 179.4 | 179.4 |
| 55° | 2063.5 | 1789.5 | 832.3 | 215.3 | 189.4 | 214.5 | 208.1 | 201.6 | 195.9 | 197.3 | 198.0 |
| 57.5° | 2343.4 | 1999.7 | 810.8 | 195.2 | 177.2 | 210.2 | 228.9 | 220.3 | 202.3 | 201.6 | 200.9 |
| 60° | 2584.5 | 2163.3 | 691.7 | 182.2 | 167.9 | 217.4 | 245.4 | 220.3 | 202.3 | 211.7 | 212.4 |
| 62.5° | 2742.3 | 2240.8 | 460.6 | 165.7 | 154.3 | 205.2 | 239.6 | 213.8 | 203.1 | 229.6 | 231.8 |
| 65° | 2720.8 | 2154.0 | 264.8 | 154.3 | 145.7 | 188.7 | 231.8 | 205.9 | 189.4 | 204.5 | 200.2 |
| 67.5° | 2400.1 | 1805.2 | 191.6 | 149.2 | 139.2 | 177.2 | 217.4 | 194.4 | 176.5 | 195.2 | 187.3 |
| 70° | 1724.9 | 1229.1 | 165.0 | 144.9 | 134.9 | 163.6 | 207.4 | 187.3 | 169.3 | 182.2 | 170.0 |
| 72° | 1157.3 | 747.6 | 151.4 | 141.3 | 130.6 | 155.0 | 200.2 | 181.5 | 162.9 | 170.0 | 156.4 |
| 72.5° | 985.1 | 589.8 | 147.8 | 139.9 | 129.2 | 152.8 | 198.0 | 180.1 | 161.4 | 168.6 | 155.7 |
| 75° | 368.1 | 231.0 | 131.3 | 129.2 | 119.1 | 142.1 | 189.4 | 173.6 | 154.3 | 152.1 | 146.4 |
| 77.5° | 189.4 | 146.4 | 111.9 | 114.1 | 106.9 | 129.9 | 180.1 | 163.6 | 142.1 | 134.2 | 131.3 |
| 80° | 137.8 | 106.2 | 90.4 | 96.9 | 91.1 | 117.0 | 167.2 | 148.5 | 129.2 | 120.5 | 117.0 |
| 82.5° | 86.8 | 66.0 | 68.9 | 76.8 | 77.5 | 103.3 | 152.1 | 133.5 | 114.8 | 107.6 | 101.9 |
| 85° | 41.6 | 39.5 | 48.8 | 56.7 | 62.4 | 87.5 | 139.2 | 118.4 | 100.5 | 86.1 | 86.8 |
| 87.5° | 22.2 | 30.1 | 29.4 | 38.0 | 48.1 | 71.8 | 123.4 | 96.9 | 80.4 | 64.6 | 65.3 |
| 90° | 12.0 | 14.9 | 17.6 | 24.1 | 26.4 | 37.9 | 87.6 | 63.2 | 60.8 | 28.0 | 25.1 |
| 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: P226646

CATALOG NUMBER: ISW-AF-1000-LED-E1-T4W-8030-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)