

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: P227071

Luminaire Tested: **ISW-AF-1000-LED-E1-SL4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35947)
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-SL4-8030
Description: IMPACT ELITE LED WEDGE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV W/SPILL CONTROL
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4418.5 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U1 - G1

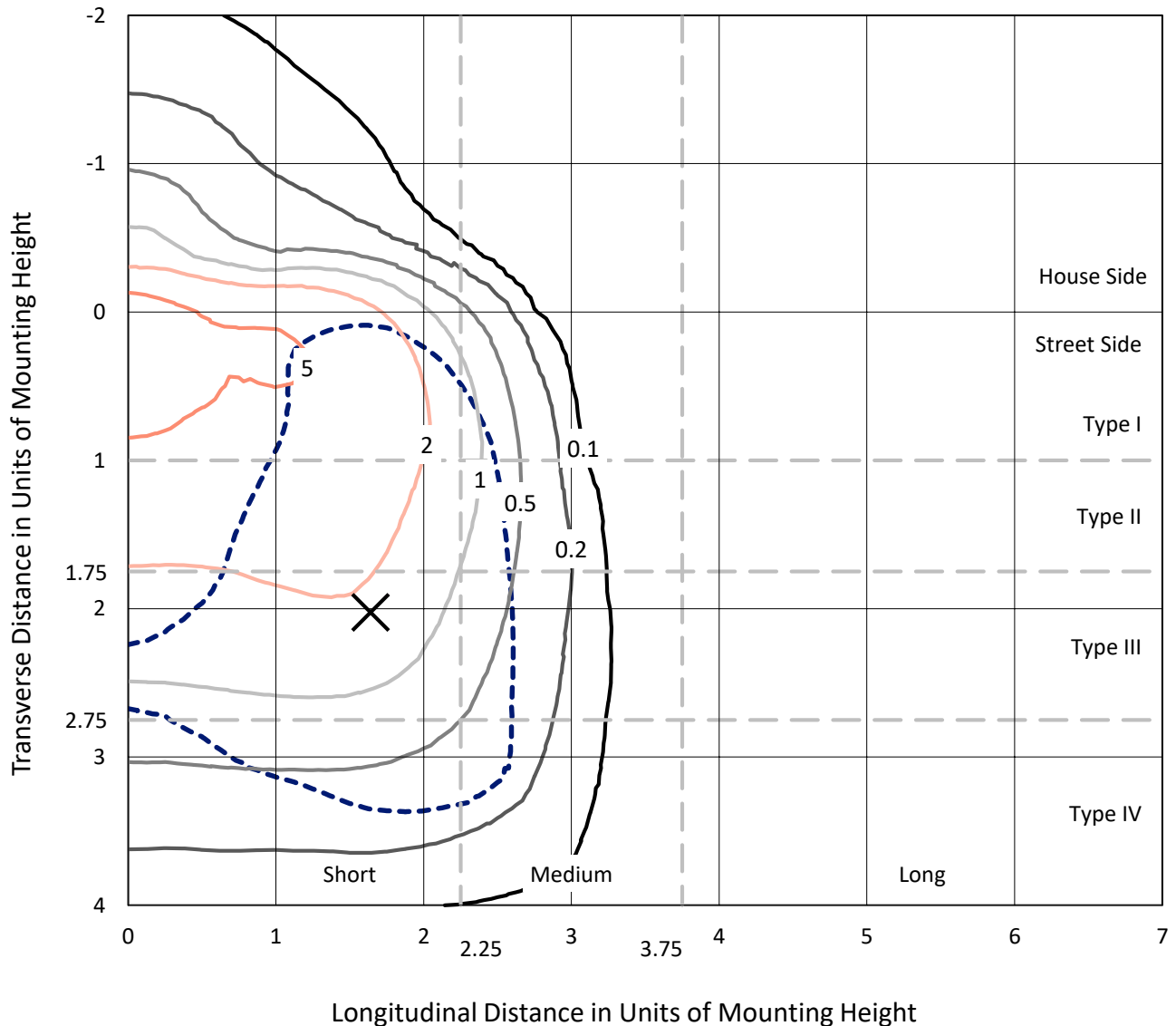
Input Watts (W): 54.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

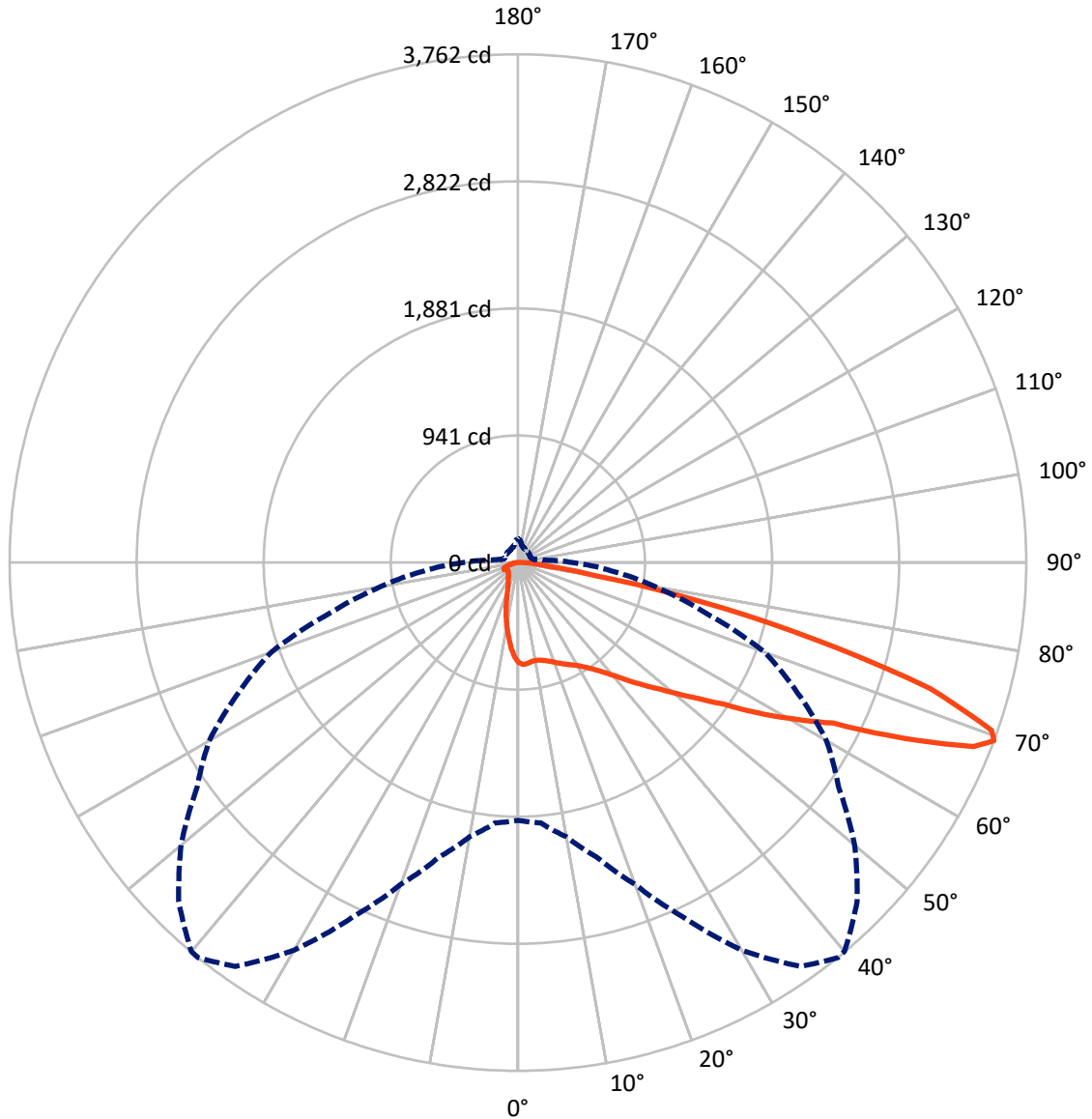
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - Semi-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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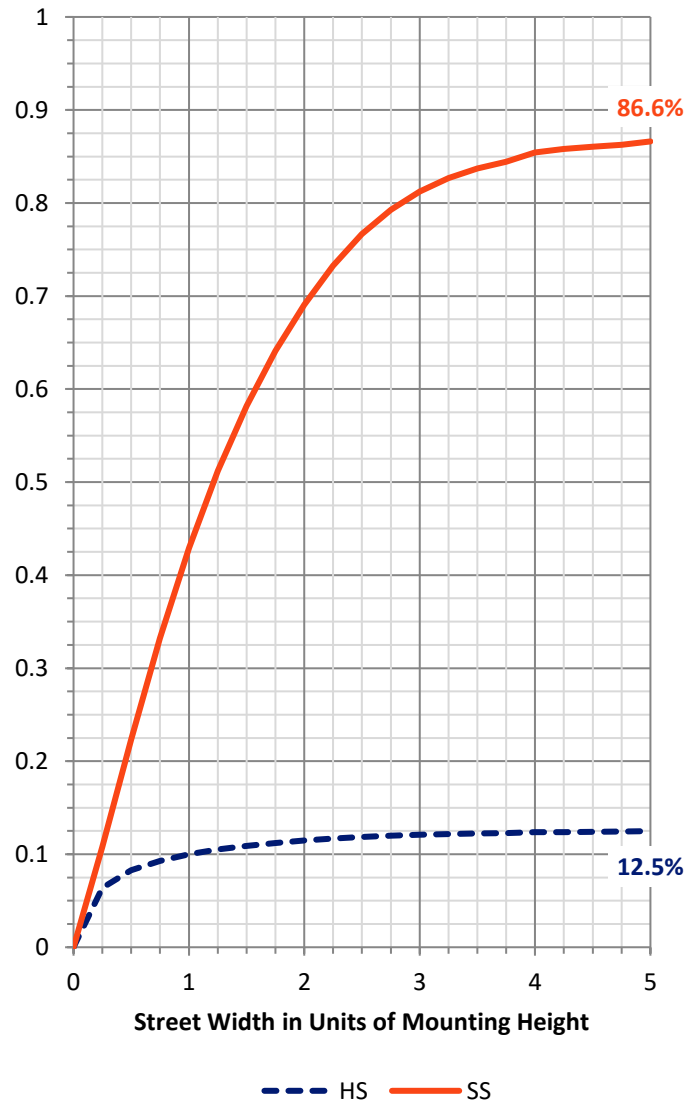
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 559.1 | 0.1 | 559.2 |
| | % Fixture | 12.7 | 0.0 | 12.7 |
| Street Side | Lumens | 3858.3 | 1.1 | 3859.3 |
| | % Fixture | 87.3 | 0.0 | 87.3 |
| Total | Lumens | 4417.3 | 1.2 | 4418.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 63.9 | 1.4 |
| 10°-20° | 161.1 | 3.6 |
| 20°-30° | 250.7 | 5.7 |
| 30°-40° | 378.9 | 8.6 |
| 40°-50° | 606.4 | 13.7 |
| 50°-60° | 953.0 | 21.6 |
| 60°-70° | 1283.2 | 29.0 |
| 70°-80° | 636.5 | 14.4 |
| 80°-90° | 83.6 | 1.9 |
| 90°-100° | 1.2 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 4417.3 | 100.0 |
| 0°-180° | 4418.5 | 100.0 |



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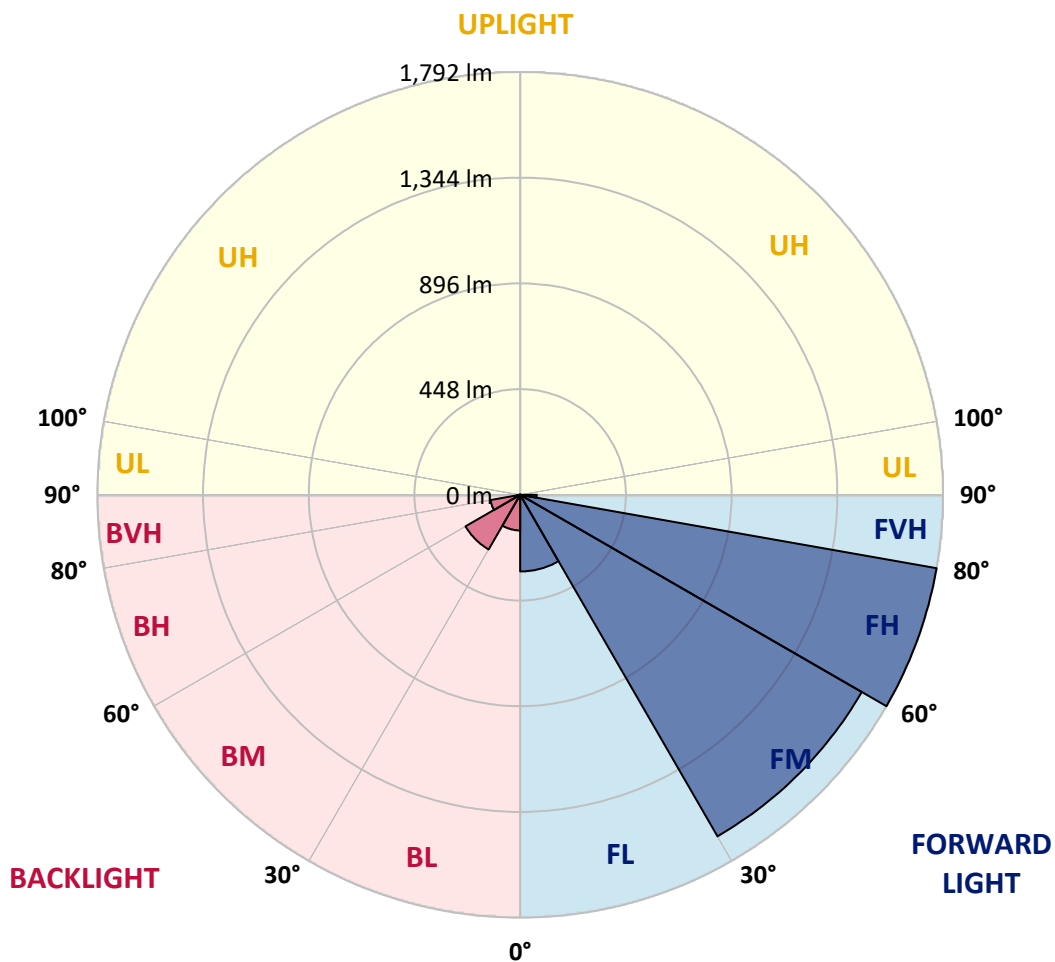
CATALOG NUMBER: ISW-AF-1000-LED-E1-SL4-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|-------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 324.9 | 7.4 | | | |
| FM | (30°-60°) | 1671.2 | 37.8 | | | |
| FH | (60°-80°) | 1791.7 | 40.6 | | | G1/1800 |
| FVH | (80°-90°) | 70.4 | 1.6 | | | G1/100 |
| BL | (0°-30°) | 150.8 | 3.4 | B1/500 | | |
| BM | (30°-60°) | 267.1 | 6.0 | B1/1000 | | |
| BH | (60°-80°) | 128.0 | 2.9 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 13.2 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 1.2 | 0.0 | | U1/10 | |
| UH | (100°-180°) | 0.1 | 0.0 | | U1/10 | |

BUG Rating: B1-U1-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 39° | 40° | 45° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 740.1 | 740.1 | 740.1 | 740.1 | 740.1 | 740.1 | 740.1 | 740.1 | 740.1 | 740.1 | 740.1 |
| 2.5° | 758.0 | 758.7 | 758.7 | 759.4 | 756.6 | 756.6 | 757.3 | 754.4 | 755.8 | 755.1 | 751.5 |
| 5° | 759.4 | 760.1 | 759.4 | 760.1 | 756.6 | 755.1 | 752.3 | 748.7 | 750.1 | 749.4 | 744.4 |
| 7.5° | 755.8 | 756.6 | 755.1 | 755.8 | 751.5 | 748.7 | 744.4 | 741.5 | 739.3 | 738.6 | 732.2 |
| 10° | 748.0 | 750.1 | 747.2 | 749.4 | 745.8 | 742.9 | 740.8 | 737.9 | 736.5 | 735.8 | 728.6 |
| 12.5° | 736.5 | 737.9 | 738.6 | 741.5 | 741.5 | 742.2 | 742.2 | 740.1 | 740.8 | 740.1 | 734.3 |
| 15° | 725.7 | 730.7 | 735.8 | 738.6 | 744.4 | 748.0 | 750.8 | 750.1 | 752.3 | 751.5 | 748.0 |
| 17.5° | 725.7 | 730.0 | 738.6 | 748.0 | 758.7 | 763.7 | 768.0 | 768.0 | 768.7 | 767.3 | 761.6 |
| 20° | 728.6 | 736.5 | 750.8 | 766.6 | 779.5 | 789.5 | 792.4 | 791.7 | 788.8 | 788.8 | 778.8 |
| 22.5° | 752.3 | 757.3 | 773.1 | 790.3 | 808.2 | 818.2 | 818.9 | 816.8 | 811.1 | 809.6 | 797.4 |
| 25° | 786.0 | 791.7 | 806.0 | 828.3 | 841.9 | 849.8 | 847.6 | 840.5 | 834.7 | 829.7 | 816.8 |
| 27.5° | 838.3 | 842.6 | 857.0 | 872.0 | 879.9 | 882.8 | 874.2 | 864.1 | 857.7 | 855.5 | 838.3 |
| 30° | 892.1 | 897.8 | 909.3 | 918.6 | 925.1 | 916.5 | 902.8 | 891.4 | 885.6 | 884.2 | 868.4 |
| 32.5° | 958.1 | 958.8 | 966.7 | 968.8 | 969.5 | 955.2 | 936.6 | 925.8 | 923.6 | 920.8 | 908.6 |
| 35° | 1018.3 | 1021.9 | 1020.5 | 1019.7 | 1013.3 | 995.4 | 979.6 | 973.1 | 971.0 | 970.3 | 960.2 |
| 37.5° | 1072.1 | 1077.8 | 1074.2 | 1067.8 | 1059.9 | 1045.6 | 1029.1 | 1021.9 | 1029.1 | 1024.8 | 1026.9 |
| 40° | 1124.4 | 1124.4 | 1120.1 | 1116.6 | 1107.2 | 1093.6 | 1087.9 | 1088.6 | 1100.1 | 1102.9 | 1105.8 |
| 42.5° | 1169.6 | 1168.9 | 1164.6 | 1161.7 | 1160.3 | 1157.4 | 1154.6 | 1168.2 | 1190.4 | 1194.7 | 1201.2 |
| 45° | 1219.1 | 1218.4 | 1201.9 | 1207.6 | 1217.7 | 1219.8 | 1229.9 | 1261.4 | 1288.7 | 1290.8 | 1304.4 |
| 47.5° | 1267.1 | 1261.4 | 1245.6 | 1251.4 | 1280.1 | 1295.1 | 1311.6 | 1356.1 | 1394.1 | 1402.0 | 1440.0 |
| 50° | 1317.3 | 1311.6 | 1294.4 | 1305.2 | 1345.3 | 1373.3 | 1412.0 | 1473.7 | 1526.0 | 1536.8 | 1586.3 |
| 52.5° | 1369.7 | 1369.0 | 1355.3 | 1371.8 | 1421.3 | 1478.0 | 1538.9 | 1608.5 | 1672.3 | 1685.9 | 1759.1 |
| 55° | 1432.8 | 1429.2 | 1423.5 | 1443.6 | 1513.8 | 1589.8 | 1685.2 | 1779.9 | 1849.4 | 1873.8 | 1947.7 |
| 57.5° | 1503.8 | 1502.4 | 1503.1 | 1544.7 | 1629.3 | 1744.7 | 1861.6 | 1989.3 | 2104.0 | 2121.2 | 2190.1 |
| 60° | 1565.5 | 1568.3 | 1584.8 | 1650.1 | 1756.2 | 1912.5 | 2076.8 | 2249.6 | 2351.4 | 2369.4 | 2436.8 |
| 62.5° | 1640.8 | 1657.3 | 1693.8 | 1776.3 | 1901.1 | 2090.4 | 2303.4 | 2486.2 | 2617.5 | 2654.0 | 2781.7 |
| 65° | 1821.5 | 1834.4 | 1902.5 | 2002.2 | 2161.4 | 2403.8 | 2648.3 | 2914.4 | 3130.9 | 3163.9 | 3273.6 |
| 67.5° | 1953.4 | 1986.4 | 2093.3 | 2256.0 | 2486.2 | 2796.0 | 3131.6 | 3453.6 | 3636.5 | 3651.6 | 3574.8 |
| 69° | 1907.5 | 1934.8 | 2061.0 | 2257.5 | 2535.0 | 2895.7 | 3313.1 | 3649.4 | 3762.0 | 3759.1 | 3550.4 |
| 70° | 1837.3 | 1862.4 | 2001.5 | 2192.2 | 2494.1 | 2884.2 | 3315.9 | 3650.8 | 3719.0 | 3693.1 | 3454.3 |
| 72.5° | 1538.9 | 1561.2 | 1691.7 | 1891.0 | 2183.6 | 2570.9 | 2977.5 | 3206.2 | 3191.9 | 3170.4 | 2776.0 |
| 75° | 960.9 | 959.5 | 1073.5 | 1189.0 | 1416.3 | 1807.9 | 2110.5 | 2294.1 | 2264.7 | 2248.2 | 1782.0 |
| 77.5° | 359.3 | 384.4 | 426.0 | 550.0 | 654.7 | 866.3 | 1110.8 | 1315.2 | 1371.8 | 1299.4 | 959.5 |
| 80° | 187.2 | 200.8 | 228.0 | 271.8 | 312.7 | 357.8 | 430.3 | 553.6 | 573.0 | 534.3 | 387.2 |
| 82.5° | 147.7 | 164.2 | 191.5 | 228.8 | 257.4 | 240.2 | 226.6 | 234.5 | 233.1 | 222.3 | 197.2 |
| 85° | 111.9 | 131.2 | 175.7 | 213.7 | 254.6 | 215.1 | 171.4 | 149.9 | 133.4 | 134.1 | 142.7 |
| 87.5° | 55.9 | 72.4 | 138.4 | 186.5 | 221.6 | 142.7 | 111.9 | 86.8 | 72.4 | 69.6 | 93.2 |
| 90° | 17.2 | 17.2 | 28.0 | 36.6 | 50.2 | 25.1 | 24.4 | 18.6 | 13.6 | 13.6 | 21.5 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: ISW-AF-1000-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 39° | 40° | 45° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: ISW-AF-1000-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0° | 740.1 | 740.1 | 740.1 | 740.1 | 740.1 | 740.1 | 740.1 | 740.1 | 740.1 | 740.1 | 740.1 |
| 2.5° | 748.7 | 748.7 | 747.2 | 746.5 | 744.4 | 741.5 | 739.3 | 735.8 | 733.6 | 730.0 | 725.7 |
| 5° | 739.3 | 736.5 | 735.0 | 732.2 | 727.9 | 724.3 | 720.0 | 715.0 | 709.2 | 702.1 | 694.2 |
| 7.5° | 727.2 | 722.9 | 717.8 | 716.4 | 711.4 | 707.1 | 702.1 | 694.9 | 687.0 | 674.1 | 664.0 |
| 10° | 722.1 | 717.8 | 713.5 | 710.7 | 704.2 | 699.2 | 693.5 | 684.1 | 674.1 | 656.9 | 638.2 |
| 12.5° | 727.2 | 722.9 | 718.6 | 713.5 | 707.8 | 702.1 | 694.2 | 682.7 | 669.1 | 646.8 | 623.9 |
| 15° | 739.3 | 735.0 | 727.9 | 722.9 | 715.0 | 709.9 | 699.2 | 686.3 | 666.2 | 639.0 | 608.8 |
| 17.5° | 753.0 | 746.5 | 740.1 | 732.2 | 725.0 | 718.6 | 707.1 | 690.6 | 665.5 | 633.2 | 594.5 |
| 20° | 765.9 | 758.7 | 748.7 | 742.9 | 735.8 | 726.4 | 714.2 | 694.2 | 664.0 | 621.7 | 579.4 |
| 22.5° | 780.9 | 771.6 | 760.9 | 754.4 | 748.7 | 740.8 | 726.4 | 700.6 | 664.0 | 615.3 | 562.2 |
| 25° | 800.3 | 788.1 | 777.4 | 770.9 | 767.3 | 761.6 | 744.4 | 715.7 | 669.1 | 611.7 | 547.9 |
| 27.5° | 823.2 | 807.5 | 798.2 | 793.8 | 793.1 | 788.8 | 771.6 | 735.8 | 680.5 | 611.7 | 534.3 |
| 30° | 850.5 | 836.9 | 824.7 | 824.7 | 833.3 | 830.4 | 811.1 | 766.6 | 698.5 | 613.9 | 524.2 |
| 32.5° | 888.5 | 874.9 | 867.7 | 874.9 | 884.2 | 887.1 | 864.8 | 810.3 | 727.9 | 623.9 | 514.2 |
| 35° | 944.4 | 935.8 | 930.8 | 941.6 | 960.2 | 967.4 | 940.1 | 875.6 | 770.9 | 643.3 | 508.4 |
| 37.5° | 1018.3 | 1011.9 | 1005.4 | 1024.0 | 1059.2 | 1073.5 | 1034.1 | 950.9 | 832.6 | 675.5 | 505.6 |
| 40° | 1102.9 | 1103.6 | 1110.8 | 1148.1 | 1181.8 | 1211.9 | 1167.5 | 1064.9 | 917.2 | 721.4 | 508.4 |
| 42.5° | 1203.3 | 1211.2 | 1235.6 | 1287.2 | 1352.5 | 1376.1 | 1333.1 | 1202.6 | 1022.6 | 776.6 | 515.6 |
| 45° | 1328.1 | 1348.9 | 1390.5 | 1467.2 | 1546.1 | 1582.7 | 1521.7 | 1376.1 | 1155.3 | 864.8 | 535.7 |
| 47.5° | 1460.8 | 1506.7 | 1576.9 | 1670.2 | 1762.0 | 1785.6 | 1710.3 | 1533.2 | 1285.1 | 943.0 | 566.5 |
| 50° | 1630.7 | 1686.7 | 1756.9 | 1868.8 | 1966.3 | 1980.7 | 1881.0 | 1678.8 | 1398.4 | 1011.1 | 595.9 |
| 52.5° | 1789.2 | 1865.2 | 1954.9 | 2084.7 | 2183.6 | 2165.7 | 2036.6 | 1808.6 | 1488.0 | 1057.7 | 612.4 |
| 55° | 2005.8 | 2084.7 | 2185.8 | 2299.1 | 2397.3 | 2354.3 | 2177.9 | 1919.0 | 1559.7 | 1092.2 | 617.4 |
| 57.5° | 2253.2 | 2313.4 | 2412.4 | 2528.6 | 2593.1 | 2519.2 | 2317.0 | 2026.6 | 1627.9 | 1092.9 | 578.0 |
| 60° | 2496.3 | 2566.6 | 2675.6 | 2789.6 | 2825.4 | 2697.8 | 2413.8 | 2043.1 | 1560.4 | 975.3 | 462.5 |
| 62.5° | 2856.3 | 2927.3 | 2982.5 | 3001.1 | 2936.6 | 2679.9 | 2301.2 | 1868.8 | 1345.3 | 769.5 | 327.7 |
| 65° | 3258.6 | 3178.3 | 3071.4 | 2971.0 | 2795.3 | 2405.2 | 1984.3 | 1535.3 | 1044.1 | 514.2 | 225.9 |
| 67.5° | 3364.0 | 3119.5 | 2887.1 | 2663.4 | 2335.6 | 1915.4 | 1496.6 | 1080.0 | 669.8 | 292.6 | 153.5 |
| 69° | 3254.3 | 2897.2 | 2638.3 | 2283.3 | 1944.8 | 1433.5 | 1031.2 | 692.0 | 400.2 | 203.7 | 128.4 |
| 70° | 3053.5 | 2682.0 | 2331.3 | 1951.3 | 1506.7 | 1095.0 | 685.6 | 453.2 | 261.0 | 148.4 | 115.5 |
| 72.5° | 2304.1 | 1842.3 | 1419.9 | 922.2 | 562.2 | 311.9 | 219.4 | 157.0 | 124.1 | 109.0 | 99.0 |
| 75° | 1332.4 | 887.1 | 580.9 | 309.8 | 183.6 | 136.3 | 119.0 | 106.1 | 98.2 | 94.7 | 86.1 |
| 77.5° | 562.2 | 351.4 | 238.1 | 174.3 | 123.3 | 105.4 | 91.8 | 84.6 | 83.9 | 81.8 | 73.9 |
| 80° | 256.0 | 219.4 | 187.2 | 131.2 | 93.9 | 80.3 | 70.3 | 68.8 | 70.3 | 68.1 | 60.2 |
| 82.5° | 190.0 | 187.2 | 156.3 | 101.1 | 71.7 | 53.8 | 43.7 | 45.9 | 51.6 | 55.9 | 48.8 |
| 85° | 158.5 | 158.5 | 131.2 | 75.3 | 47.3 | 34.4 | 33.7 | 38.0 | 43.0 | 46.6 | 39.4 |
| 87.5° | 145.6 | 139.8 | 75.3 | 38.7 | 27.3 | 22.2 | 20.8 | 18.6 | 18.6 | 32.3 | 27.3 |
| 90° | 14.3 | 6.5 | 3.6 | 2.9 | 3.6 | 2.9 | 4.3 | 3.6 | 3.6 | 3.6 | 3.6 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P227071

CATALOG NUMBER: ISW-AF-1000-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P227071

CATALOG NUMBER: ISW-AF-1000-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 740.1 | 740.1 | 740.1 | 740.1 | 740.1 | 740.1 | 740.1 | 740.1 | 740.1 | 740.1 | 740.1 |
| 2.5° | 722.1 | 719.3 | 712.1 | 710.7 | 708.5 | 705.6 | 704.9 | 701.3 | 694.2 | 692.7 | 693.5 |
| 5° | 689.1 | 677.7 | 669.8 | 663.3 | 658.3 | 645.4 | 640.4 | 634.6 | 624.6 | 621.7 | 617.4 |
| 7.5° | 650.4 | 636.8 | 621.0 | 609.5 | 595.9 | 582.3 | 571.5 | 557.9 | 547.2 | 540.7 | 529.2 |
| 10° | 620.3 | 601.7 | 580.9 | 557.9 | 540.0 | 519.2 | 505.6 | 489.8 | 472.6 | 456.8 | 445.3 |
| 12.5° | 597.4 | 571.5 | 541.4 | 514.2 | 488.4 | 466.1 | 441.7 | 419.5 | 398.0 | 376.5 | 357.8 |
| 15° | 578.7 | 546.4 | 508.4 | 474.0 | 442.5 | 409.5 | 382.2 | 351.4 | 324.1 | 305.5 | 281.8 |
| 17.5° | 558.6 | 517.0 | 471.9 | 431.7 | 390.8 | 356.4 | 322.0 | 289.7 | 263.9 | 239.5 | 220.2 |
| 20° | 534.3 | 484.1 | 435.3 | 388.7 | 342.1 | 302.6 | 267.5 | 236.6 | 211.5 | 192.2 | 177.8 |
| 22.5° | 507.0 | 448.2 | 391.5 | 340.6 | 294.0 | 255.3 | 222.3 | 199.4 | 180.7 | 170.0 | 165.7 |
| 25° | 480.5 | 413.1 | 349.2 | 293.3 | 246.7 | 213.7 | 191.5 | 172.1 | 162.8 | 158.5 | 158.5 |
| 27.5° | 456.1 | 377.2 | 306.2 | 251.7 | 206.5 | 180.7 | 163.5 | 155.6 | 151.3 | 151.3 | 153.5 |
| 30° | 433.1 | 341.3 | 265.3 | 210.1 | 174.3 | 154.9 | 145.6 | 142.7 | 143.4 | 146.3 | 149.2 |
| 32.5° | 406.6 | 306.9 | 230.2 | 180.7 | 151.3 | 138.4 | 131.2 | 131.9 | 135.5 | 140.6 | 145.6 |
| 35° | 378.6 | 270.4 | 199.4 | 158.5 | 135.5 | 125.5 | 121.2 | 121.9 | 126.9 | 133.4 | 138.4 |
| 37.5° | 353.5 | 241.0 | 175.7 | 141.3 | 124.1 | 117.6 | 114.0 | 114.7 | 118.3 | 126.2 | 132.7 |
| 40° | 328.4 | 215.9 | 156.3 | 131.2 | 117.6 | 111.2 | 109.0 | 108.3 | 111.2 | 118.3 | 126.2 |
| 42.5° | 306.9 | 194.3 | 144.9 | 124.1 | 113.3 | 107.6 | 104.7 | 104.7 | 106.1 | 111.9 | 119.8 |
| 45° | 294.0 | 181.4 | 137.0 | 119.0 | 109.7 | 104.7 | 101.8 | 100.4 | 102.5 | 106.1 | 113.3 |
| 47.5° | 294.0 | 175.0 | 131.9 | 115.5 | 106.9 | 102.5 | 99.0 | 98.2 | 99.0 | 102.5 | 109.7 |
| 50° | 304.1 | 176.4 | 131.2 | 114.0 | 105.4 | 99.7 | 96.1 | 96.1 | 97.5 | 102.5 | 108.3 |
| 52.5° | 312.7 | 179.3 | 133.4 | 115.5 | 105.4 | 98.2 | 93.9 | 93.2 | 95.4 | 100.4 | 105.4 |
| 55° | 311.2 | 179.3 | 135.5 | 117.6 | 107.6 | 99.0 | 93.2 | 92.5 | 93.9 | 99.0 | 104.0 |
| 57.5° | 278.2 | 168.5 | 133.4 | 119.0 | 110.4 | 102.5 | 96.8 | 94.7 | 96.1 | 100.4 | 104.7 |
| 60° | 225.2 | 149.9 | 127.6 | 119.0 | 114.7 | 109.0 | 103.3 | 101.8 | 102.5 | 106.9 | 111.9 |
| 62.5° | 176.4 | 133.4 | 120.5 | 118.3 | 116.9 | 114.0 | 111.9 | 110.4 | 110.4 | 114.0 | 118.3 |
| 65° | 143.4 | 120.5 | 114.7 | 115.5 | 116.9 | 116.2 | 115.5 | 114.7 | 114.7 | 116.9 | 121.2 |
| 67.5° | 119.8 | 108.3 | 106.9 | 109.0 | 110.4 | 111.2 | 111.9 | 111.2 | 111.9 | 114.0 | 119.0 |
| 69° | 109.0 | 101.8 | 100.4 | 101.8 | 104.7 | 105.4 | 106.9 | 106.1 | 106.9 | 109.0 | 114.0 |
| 70° | 102.5 | 96.8 | 95.4 | 97.5 | 99.7 | 100.4 | 101.8 | 101.1 | 101.8 | 104.0 | 109.0 |
| 72.5° | 88.9 | 82.5 | 80.3 | 81.8 | 83.9 | 83.9 | 86.1 | 86.8 | 85.3 | 86.1 | 89.6 |
| 75° | 76.0 | 68.8 | 65.3 | 66.0 | 66.0 | 66.0 | 67.4 | 67.4 | 66.0 | 65.3 | 66.0 |
| 77.5° | 63.8 | 55.9 | 51.6 | 51.6 | 51.6 | 50.9 | 48.8 | 49.5 | 50.2 | 49.5 | 50.2 |
| 80° | 50.2 | 43.7 | 39.4 | 39.4 | 39.4 | 38.0 | 37.3 | 37.3 | 38.7 | 40.2 | 39.4 |
| 82.5° | 38.7 | 32.3 | 30.1 | 29.4 | 29.4 | 28.0 | 28.0 | 29.4 | 28.7 | 29.4 | 30.8 |
| 85° | 28.0 | 22.9 | 20.8 | 21.5 | 20.8 | 19.4 | 20.1 | 22.2 | 22.2 | 21.5 | 22.9 |
| 87.5° | 17.2 | 14.3 | 13.6 | 14.3 | 12.9 | 10.8 | 10.0 | 10.8 | 12.2 | 11.5 | 12.9 |
| 90° | 2.2 | 1.4 | 1.4 | 1.4 | 2.2 | 1.4 | 1.4 | 1.4 | 2.2 | 2.2 | 1.4 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P227071
 CATALOG NUMBER: ISW-AF-1000-LED-E1-SL4-8030

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | |
|--------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0° |
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5° |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5° |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.5° |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10° |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.5° |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15° |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.5° |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20° |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.5° |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 25° |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 27.5° |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 30° |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 32.5° |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 35° |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 37.5° |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 40° |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 42.5° |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 45° |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 47.5° |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 50° |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 52.5° |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 55° |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 57.5° |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 60° |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 62.5° |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 65° |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 67.5° |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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° |

