

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: P271534

Luminaire Tested: **ISS-AF-1000-LED-E1-SL4-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29763)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-1000-LED-E1-SL4-7027
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV W/SPILL CONTROL
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4442.2 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

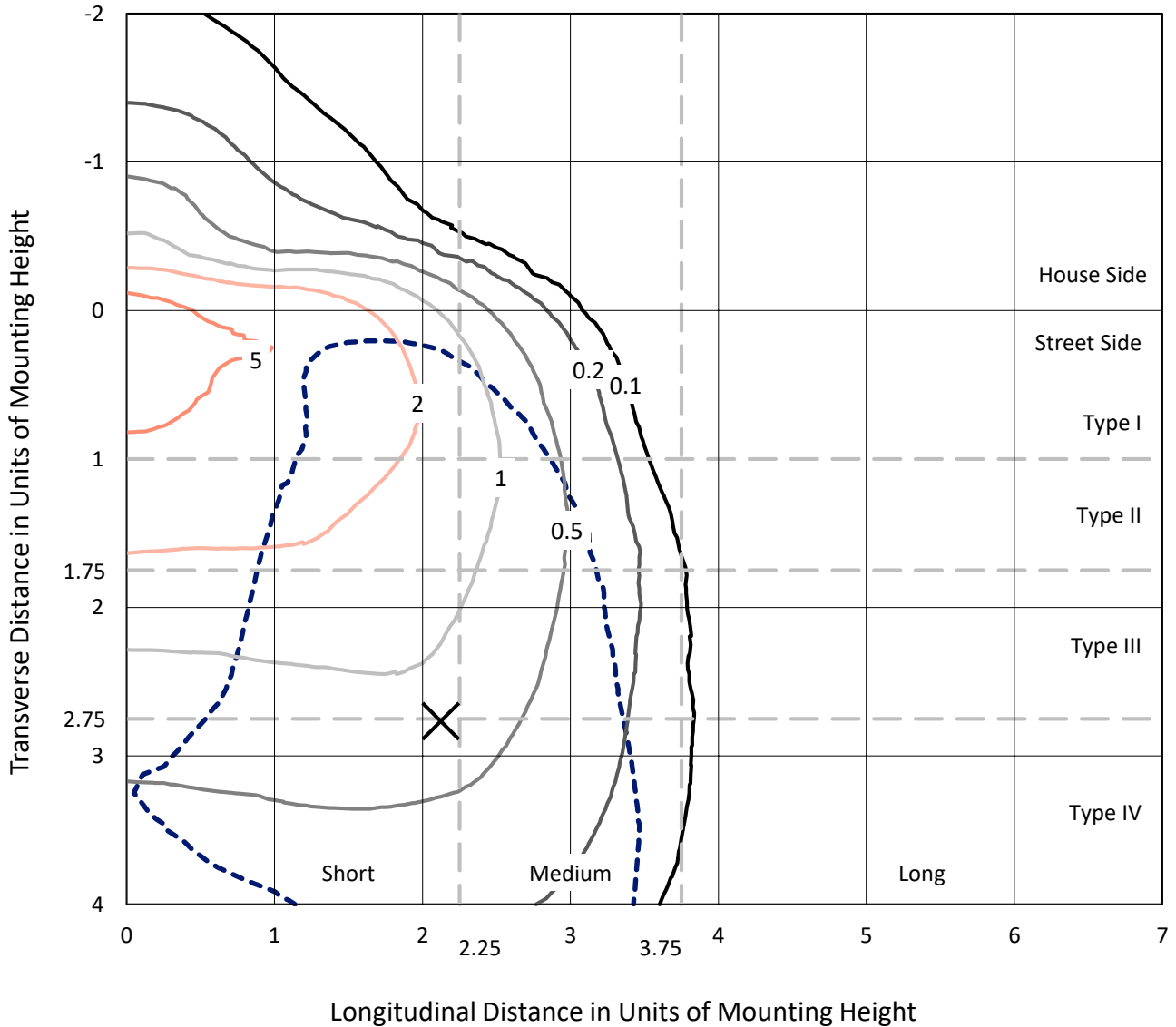
Input Watts (W): 54.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

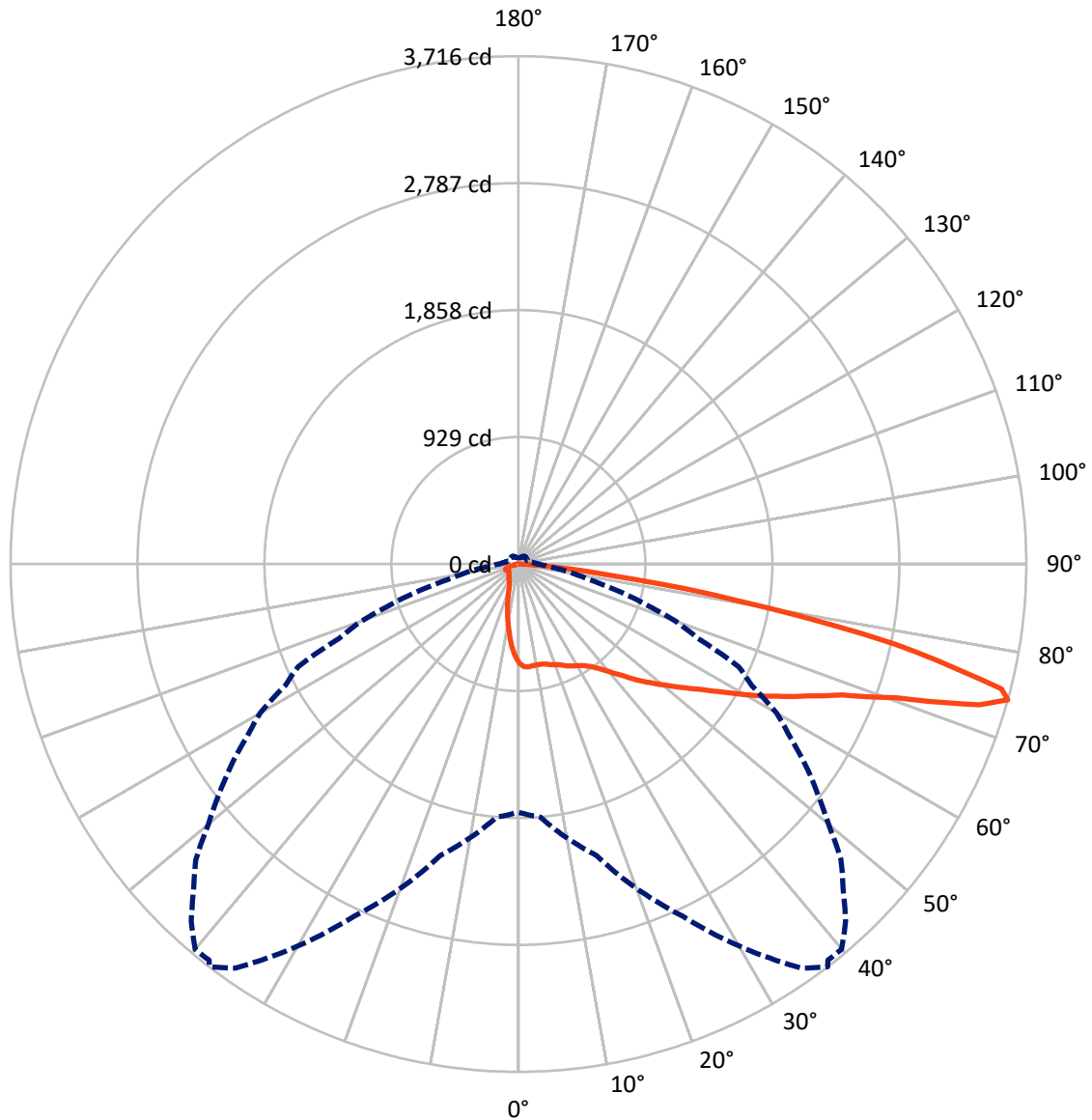
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 37.5-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 526.7 | 0.0 | 526.7 |
| | % Fixture | 11.9 | 0.0 | 11.9 |
| Street Side | Lumens | 3915.5 | 0.0 | 3915.5 |
| | % Fixture | 88.1 | 0.0 | 88.1 |
| Total | Lumens | 4442.2 | 0.0 | 4442.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 63.1 | 1.4 |
| 10°-20° | 160.8 | 3.6 |
| 20°-30° | 249.1 | 5.6 |
| 30°-40° | 369.5 | 8.3 |
| 40°-50° | 568.5 | 12.8 |
| 50°-60° | 840.3 | 18.9 |
| 60°-70° | 1120.1 | 25.2 |
| 70°-80° | 966.8 | 21.8 |
| 80°-90° | 104.0 | 2.3 |
| 90°-100° | 0.0 | 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° | 4442.2 | 100.0 |
| 0°-180° | 4442.2 | 100.0 |



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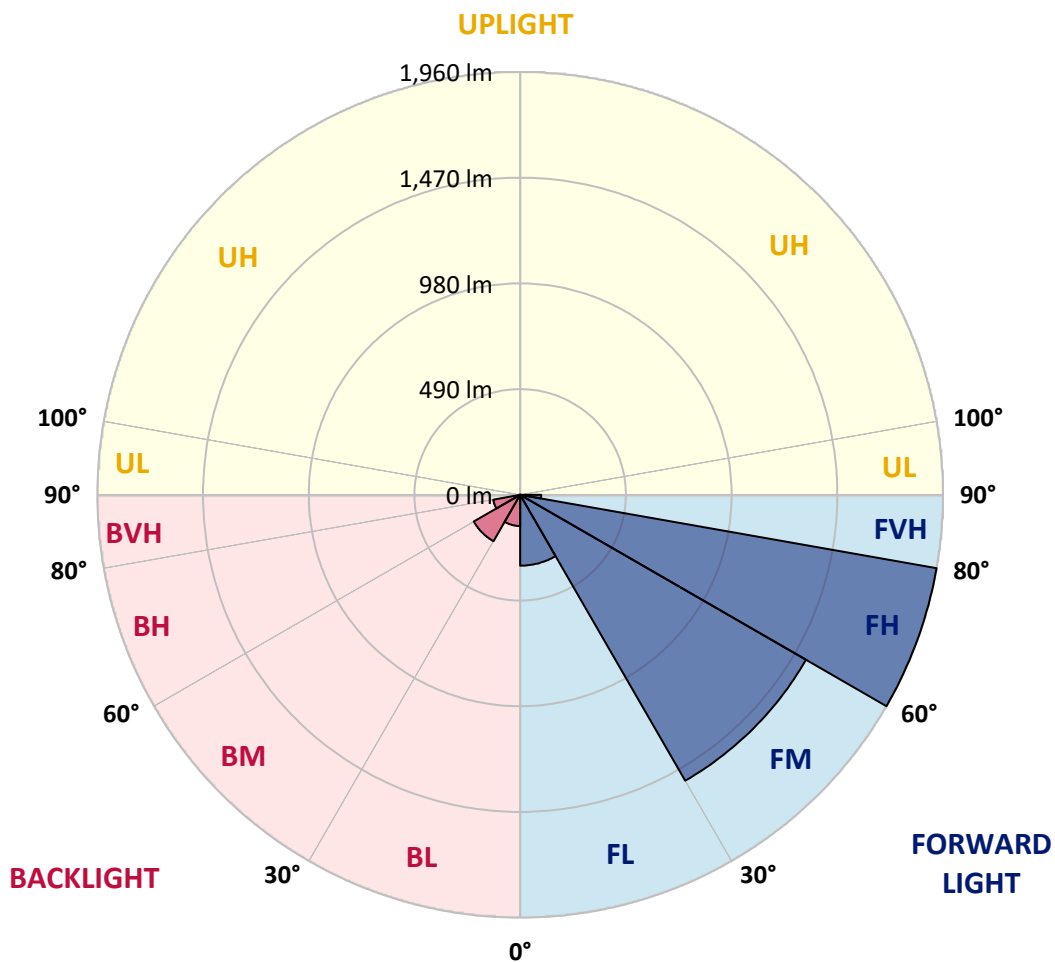
CATALOG NUMBER: ISS-AF-1000-LED-E1-SL4-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 328.4 | 7.4 | | | |
| FM (30°-60°) | 1530.0 | 34.4 | | | |
| FH (60°-80°) | 1959.9 | 44.1 | | | G2/5000 |
| FVH (80°-90°) | 97.1 | 2.2 | | | G1/100 |
| BL (0°-30°) | 144.6 | 3.3 | B1/500 | | |
| BM (30°-60°) | 248.3 | 5.6 | B1/1000 | | |
| BH (60°-80°) | 127.0 | 2.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 6.8 | 0.2 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 37.5° | 38° | 40° | 42.5° | 45° | 47.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 724.9 | 724.9 | 724.9 | 724.9 | 724.9 | 724.9 | 724.9 | 724.9 | 724.9 | 724.9 | 724.9 |
| 2.5° | 766.3 | 764.6 | 761.4 | 759.8 | 756.5 | 751.4 | 756.5 | 749.7 | 746.4 | 749.7 | 743.2 |
| 5° | 779.5 | 778.0 | 774.7 | 768.1 | 764.6 | 756.5 | 761.4 | 753.0 | 751.4 | 754.8 | 746.4 |
| 7.5° | 781.3 | 778.0 | 773.0 | 764.6 | 761.4 | 751.4 | 754.8 | 744.9 | 741.6 | 744.9 | 739.8 |
| 10° | 776.3 | 774.7 | 769.7 | 756.5 | 753.0 | 749.7 | 748.1 | 741.6 | 739.8 | 738.1 | 736.5 |
| 12.5° | 768.1 | 768.1 | 764.6 | 759.8 | 758.1 | 751.4 | 753.0 | 746.4 | 748.1 | 744.9 | 741.6 |
| 15° | 764.6 | 763.0 | 766.3 | 769.7 | 769.7 | 759.8 | 766.3 | 761.4 | 758.1 | 759.8 | 754.8 |
| 17.5° | 761.4 | 763.0 | 774.7 | 781.3 | 784.6 | 774.7 | 784.6 | 774.7 | 768.1 | 776.3 | 768.1 |
| 20° | 759.8 | 764.6 | 784.6 | 799.5 | 801.2 | 784.6 | 801.2 | 784.6 | 784.6 | 794.6 | 779.5 |
| 22.5° | 768.1 | 776.3 | 804.5 | 821.1 | 824.5 | 802.8 | 822.8 | 801.2 | 801.2 | 809.6 | 794.6 |
| 25° | 794.6 | 802.8 | 834.3 | 852.6 | 849.3 | 826.1 | 844.4 | 822.8 | 821.1 | 831.0 | 811.2 |
| 27.5° | 829.3 | 841.0 | 870.9 | 887.4 | 875.8 | 844.4 | 870.9 | 839.4 | 839.4 | 854.3 | 827.8 |
| 30° | 879.2 | 887.4 | 913.9 | 915.6 | 900.7 | 862.6 | 892.5 | 857.6 | 852.6 | 879.2 | 845.9 |
| 32.5° | 933.9 | 940.5 | 960.5 | 948.8 | 927.3 | 887.4 | 922.3 | 880.8 | 879.2 | 907.4 | 869.2 |
| 35° | 992.0 | 998.6 | 1005.2 | 985.4 | 965.4 | 922.3 | 960.5 | 919.0 | 917.3 | 948.8 | 912.4 |
| 37.5° | 1051.6 | 1051.6 | 1051.6 | 1028.5 | 1015.2 | 973.8 | 1008.5 | 975.4 | 972.1 | 1005.2 | 970.3 |
| 40° | 1099.7 | 1103.1 | 1098.1 | 1076.6 | 1069.9 | 1040.1 | 1069.9 | 1040.1 | 1045.1 | 1074.9 | 1046.7 |
| 42.5° | 1139.6 | 1142.9 | 1144.6 | 1126.4 | 1132.9 | 1116.3 | 1139.6 | 1118.0 | 1119.6 | 1152.9 | 1136.3 |
| 45° | 1179.5 | 1177.8 | 1191.1 | 1186.0 | 1206.0 | 1207.6 | 1220.9 | 1212.6 | 1215.9 | 1240.8 | 1235.8 |
| 47.5° | 1220.9 | 1212.6 | 1227.5 | 1249.0 | 1285.6 | 1297.2 | 1305.5 | 1308.8 | 1322.0 | 1333.6 | 1345.3 |
| 50° | 1260.7 | 1252.3 | 1262.4 | 1310.4 | 1368.5 | 1393.5 | 1395.1 | 1411.7 | 1426.6 | 1443.1 | 1466.3 |
| 52.5° | 1302.1 | 1295.5 | 1305.5 | 1373.5 | 1466.3 | 1501.2 | 1496.3 | 1524.4 | 1546.1 | 1564.3 | 1602.4 |
| 55° | 1345.3 | 1338.7 | 1348.5 | 1449.8 | 1570.9 | 1618.9 | 1614.1 | 1653.8 | 1695.3 | 1701.9 | 1745.0 |
| 57.5° | 1386.7 | 1378.4 | 1406.7 | 1539.3 | 1695.3 | 1768.2 | 1745.0 | 1806.4 | 1846.3 | 1843.0 | 1902.6 |
| 60° | 1431.6 | 1424.9 | 1469.6 | 1648.9 | 1851.1 | 1945.8 | 1911.0 | 1992.2 | 2020.4 | 2008.8 | 2065.2 |
| 62.5° | 1474.7 | 1473.0 | 1547.7 | 1776.6 | 2040.3 | 2131.6 | 2100.1 | 2171.3 | 2191.2 | 2176.3 | 2204.5 |
| 65° | 1514.5 | 1524.4 | 1632.3 | 1904.2 | 2222.8 | 2327.3 | 2284.2 | 2355.4 | 2378.7 | 2367.1 | 2415.3 |
| 67.5° | 1580.8 | 1592.4 | 1736.7 | 2066.9 | 2448.4 | 2556.1 | 2519.7 | 2594.3 | 2629.2 | 2625.8 | 2678.9 |
| 70° | 1678.8 | 1700.2 | 1891.0 | 2297.4 | 2791.8 | 2929.5 | 2909.5 | 3000.8 | 3085.4 | 3078.7 | 3131.9 |
| 72.5° | 1849.6 | 1884.4 | 2144.8 | 2655.7 | 3355.8 | 3523.3 | 3500.1 | 3551.4 | 3536.5 | 3415.4 | 3317.6 |
| 74° | 1816.5 | 1859.5 | 2207.9 | 2843.1 | 3609.5 | 3715.7 | 3677.5 | 3679.2 | 3543.2 | 3359.0 | 3201.5 |
| 75° | 1695.3 | 1740.1 | 2116.7 | 2820.0 | 3591.3 | 3649.4 | 3594.6 | 3526.6 | 3362.4 | 3174.9 | 2980.8 |
| 77.5° | 1162.9 | 1220.9 | 1556.0 | 2277.6 | 2891.3 | 2811.7 | 2798.4 | 2669.0 | 2451.7 | 2241.0 | 1992.2 |
| 80° | 595.5 | 637.0 | 804.5 | 1191.1 | 1715.2 | 1635.5 | 1662.1 | 1557.6 | 1376.8 | 1224.2 | 970.3 |
| 82.5° | 142.7 | 152.6 | 237.2 | 461.1 | 743.2 | 680.1 | 690.1 | 610.5 | 505.9 | 413.0 | 320.2 |
| 85° | 74.6 | 84.6 | 116.2 | 127.6 | 195.7 | 202.4 | 197.4 | 190.8 | 155.9 | 131.1 | 114.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 3.3 | 1.7 | 0.0 | 1.7 | 0.0 | 0.0 | 1.7 | 3.3 |
| 90° | 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: ISS-AF-1000-LED-E1-SL4-7027

CANDELA DISTRIBUTION (continued):

| | 50° | 52.5° | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 724.9 | 724.9 | 724.9 | 724.9 | 724.9 | 724.9 | 724.9 | 724.9 | 724.9 | 724.9 | 724.9 |
| 2.5° | 748.1 | 744.9 | 748.1 | 738.1 | 743.2 | 734.8 | 738.1 | 729.9 | 733.2 | 726.5 | 728.3 |
| 5° | 751.4 | 743.2 | 748.1 | 739.8 | 741.6 | 734.8 | 733.2 | 729.9 | 728.3 | 723.2 | 719.9 |
| 7.5° | 743.2 | 736.5 | 734.8 | 731.5 | 726.5 | 728.3 | 721.6 | 719.9 | 714.9 | 714.9 | 705.0 |
| 10° | 734.8 | 736.5 | 726.5 | 729.9 | 721.6 | 723.2 | 711.6 | 714.9 | 706.7 | 713.3 | 698.3 |
| 12.5° | 741.6 | 743.2 | 734.8 | 739.8 | 724.9 | 728.3 | 718.3 | 723.2 | 711.6 | 719.9 | 701.7 |
| 15° | 756.5 | 754.8 | 751.4 | 751.4 | 736.5 | 743.2 | 731.5 | 734.8 | 723.2 | 733.2 | 713.3 |
| 17.5° | 769.7 | 768.1 | 763.0 | 761.4 | 751.4 | 753.0 | 741.6 | 748.1 | 734.8 | 743.2 | 723.2 |
| 20° | 784.6 | 776.3 | 774.7 | 773.0 | 761.4 | 761.4 | 753.0 | 756.5 | 743.2 | 753.0 | 729.9 |
| 22.5° | 796.2 | 789.6 | 787.9 | 781.3 | 773.0 | 776.3 | 764.6 | 766.3 | 753.0 | 763.0 | 743.2 |
| 25° | 814.4 | 806.2 | 806.2 | 796.2 | 791.2 | 789.6 | 783.0 | 787.9 | 774.7 | 781.3 | 763.0 |
| 27.5° | 839.4 | 821.1 | 827.8 | 817.7 | 814.4 | 812.8 | 809.6 | 812.8 | 802.8 | 807.8 | 789.6 |
| 30° | 862.6 | 839.4 | 849.3 | 836.1 | 842.7 | 836.1 | 841.0 | 836.1 | 836.1 | 836.1 | 827.8 |
| 32.5° | 894.2 | 865.9 | 885.8 | 865.9 | 879.2 | 869.2 | 885.8 | 875.8 | 882.5 | 880.8 | 877.6 |
| 35° | 938.9 | 905.7 | 933.9 | 907.4 | 930.6 | 917.3 | 940.5 | 935.6 | 948.8 | 942.2 | 948.8 |
| 37.5° | 998.6 | 963.7 | 996.8 | 972.1 | 1000.3 | 980.3 | 1013.5 | 1010.2 | 1038.4 | 1028.5 | 1038.4 |
| 40° | 1073.3 | 1048.3 | 1073.3 | 1055.0 | 1084.8 | 1076.6 | 1111.5 | 1113.1 | 1144.6 | 1139.6 | 1151.2 |
| 42.5° | 1156.2 | 1138.0 | 1162.9 | 1152.9 | 1182.7 | 1189.4 | 1229.2 | 1239.1 | 1268.9 | 1277.3 | 1279.0 |
| 45° | 1245.8 | 1242.4 | 1262.4 | 1272.3 | 1302.1 | 1322.0 | 1356.9 | 1381.8 | 1415.0 | 1433.2 | 1429.9 |
| 47.5° | 1350.2 | 1363.5 | 1376.8 | 1401.6 | 1428.2 | 1469.6 | 1504.5 | 1536.0 | 1574.2 | 1585.8 | 1590.8 |
| 50° | 1468.0 | 1491.3 | 1502.9 | 1537.7 | 1564.3 | 1615.7 | 1663.8 | 1703.5 | 1745.0 | 1740.1 | 1743.4 |
| 52.5° | 1592.4 | 1622.2 | 1638.9 | 1680.4 | 1715.2 | 1774.9 | 1816.5 | 1854.6 | 1905.9 | 1892.7 | 1887.7 |
| 55° | 1730.1 | 1774.9 | 1788.2 | 1834.6 | 1864.5 | 1925.9 | 1962.3 | 2028.7 | 2050.3 | 2037.0 | 2008.8 |
| 57.5° | 1876.1 | 1929.2 | 1944.1 | 2007.2 | 2022.1 | 2088.4 | 2119.9 | 2164.7 | 2183.0 | 2161.4 | 2124.9 |
| 60° | 2041.9 | 2090.1 | 2101.8 | 2158.1 | 2178.0 | 2239.4 | 2262.7 | 2302.4 | 2315.7 | 2262.7 | 2211.2 |
| 62.5° | 2207.9 | 2257.6 | 2264.3 | 2314.0 | 2334.0 | 2387.0 | 2413.6 | 2436.7 | 2430.2 | 2352.2 | 2287.4 |
| 65° | 2396.9 | 2445.1 | 2461.6 | 2511.4 | 2523.0 | 2562.9 | 2584.4 | 2557.8 | 2542.9 | 2425.2 | 2352.2 |
| 67.5° | 2697.3 | 2748.6 | 2755.2 | 2766.9 | 2765.3 | 2745.3 | 2735.4 | 2644.1 | 2577.8 | 2360.5 | 2255.9 |
| 70° | 3092.0 | 3053.9 | 2979.2 | 2892.9 | 2829.9 | 2717.1 | 2650.8 | 2463.3 | 2323.9 | 2080.1 | 1904.2 |
| 72.5° | 3163.3 | 3039.0 | 2854.8 | 2707.1 | 2554.5 | 2377.1 | 2234.4 | 1950.8 | 1755.0 | 1499.5 | 1313.8 |
| 74° | 2960.9 | 2758.5 | 2564.5 | 2357.2 | 2181.4 | 1922.6 | 1778.3 | 1420.0 | 1225.8 | 967.0 | 741.6 |
| 75° | 2717.1 | 2480.0 | 2260.9 | 1997.2 | 1833.0 | 1522.8 | 1386.7 | 1000.3 | 806.2 | 573.9 | 386.5 |
| 77.5° | 1733.4 | 1449.8 | 1240.8 | 935.6 | 807.8 | 557.4 | 408.1 | 253.8 | 187.5 | 164.2 | 142.7 |
| 80° | 778.0 | 554.1 | 439.6 | 303.5 | 253.8 | 194.0 | 164.2 | 132.7 | 121.1 | 106.2 | 101.1 |
| 82.5° | 248.8 | 199.1 | 189.1 | 169.2 | 169.2 | 136.0 | 116.2 | 91.3 | 82.9 | 71.3 | 64.7 |
| 85° | 107.9 | 101.1 | 104.6 | 96.2 | 97.8 | 74.6 | 59.6 | 44.7 | 44.7 | 31.5 | 28.2 |
| 87.5° | 3.3 | 0.0 | 1.7 | 0.0 | 3.3 | 0.0 | 1.7 | 0.0 | 1.7 | 0.0 | 1.7 |
| 90° | 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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CANDELA DISTRIBUTION (continued):

| | 77.5° | 80° | 85° | 90° | 95° | 100° | 102.5° | 105° | 107.5° | 110° | 112.5° |
|-------|--------|--------|--------|--------|-------|-------|--------|-------|--------|-------|--------|
| 0° | 724.9 | 724.9 | 724.9 | 724.9 | 724.9 | 724.9 | 724.9 | 724.9 | 724.9 | 724.9 | 724.9 |
| 2.5° | 721.6 | 724.9 | 723.2 | 716.6 | 714.9 | 710.0 | 698.3 | 700.0 | 693.4 | 698.3 | 690.1 |
| 5° | 714.9 | 713.3 | 706.7 | 698.3 | 690.1 | 680.1 | 671.8 | 668.5 | 661.8 | 658.5 | 653.6 |
| 7.5° | 705.0 | 698.3 | 686.8 | 673.5 | 661.8 | 648.6 | 642.0 | 630.3 | 627.1 | 615.4 | 613.7 |
| 10° | 701.7 | 690.1 | 676.9 | 660.3 | 640.3 | 620.4 | 618.8 | 598.8 | 597.1 | 578.9 | 573.9 |
| 12.5° | 708.3 | 693.4 | 676.9 | 656.9 | 633.7 | 605.5 | 605.5 | 575.6 | 573.9 | 549.0 | 540.8 |
| 15° | 721.6 | 703.4 | 681.7 | 658.5 | 628.6 | 593.9 | 592.3 | 557.4 | 554.1 | 524.3 | 514.2 |
| 17.5° | 733.2 | 708.3 | 688.4 | 656.9 | 622.1 | 582.2 | 573.9 | 539.2 | 532.4 | 497.6 | 484.4 |
| 20° | 741.6 | 713.3 | 690.1 | 653.6 | 610.5 | 564.0 | 552.4 | 515.9 | 501.0 | 466.1 | 447.9 |
| 22.5° | 751.4 | 724.9 | 693.4 | 651.9 | 603.8 | 549.0 | 524.3 | 491.0 | 469.5 | 432.9 | 408.1 |
| 25° | 766.3 | 743.2 | 705.0 | 656.9 | 598.8 | 534.1 | 501.0 | 466.1 | 436.3 | 399.7 | 363.3 |
| 27.5° | 789.6 | 766.3 | 721.6 | 663.5 | 597.1 | 519.2 | 482.7 | 439.6 | 403.1 | 363.3 | 321.9 |
| 30° | 822.8 | 797.9 | 749.7 | 681.7 | 598.8 | 507.6 | 462.8 | 416.4 | 373.2 | 326.7 | 283.7 |
| 32.5° | 865.9 | 845.9 | 786.3 | 701.7 | 605.5 | 497.6 | 444.5 | 391.5 | 338.4 | 293.6 | 255.5 |
| 35° | 925.6 | 912.4 | 837.7 | 739.8 | 622.1 | 492.7 | 426.3 | 368.2 | 308.6 | 263.7 | 222.3 |
| 37.5° | 1013.5 | 995.3 | 912.4 | 794.6 | 648.6 | 489.4 | 413.0 | 340.1 | 283.7 | 235.5 | 200.7 |
| 40° | 1124.7 | 1099.7 | 1000.3 | 860.9 | 690.1 | 491.0 | 401.5 | 318.4 | 262.0 | 210.7 | 182.4 |
| 42.5° | 1257.4 | 1220.9 | 1108.1 | 942.2 | 731.5 | 494.2 | 394.7 | 298.6 | 245.5 | 190.8 | 169.2 |
| 45° | 1406.7 | 1365.2 | 1235.8 | 1043.4 | 791.2 | 502.6 | 389.9 | 282.0 | 230.5 | 175.9 | 160.9 |
| 47.5° | 1552.6 | 1511.2 | 1366.8 | 1144.6 | 852.6 | 517.5 | 393.2 | 272.1 | 220.6 | 167.5 | 150.9 |
| 50° | 1695.3 | 1652.2 | 1482.9 | 1235.8 | 905.7 | 537.5 | 406.4 | 273.7 | 219.0 | 164.2 | 146.0 |
| 52.5° | 1821.3 | 1768.2 | 1582.5 | 1307.1 | 943.8 | 550.8 | 418.0 | 278.7 | 220.6 | 162.5 | 144.3 |
| 55° | 1947.4 | 1879.4 | 1662.1 | 1363.5 | 967.0 | 552.4 | 418.0 | 280.3 | 222.3 | 162.5 | 142.7 |
| 57.5° | 2041.9 | 1964.1 | 1723.5 | 1396.8 | 975.4 | 544.1 | 408.1 | 272.1 | 212.3 | 160.9 | 139.3 |
| 60° | 2101.8 | 2018.7 | 1766.7 | 1418.2 | 963.7 | 509.2 | 355.0 | 240.6 | 187.5 | 149.3 | 129.4 |
| 62.5° | 2151.5 | 2066.9 | 1779.9 | 1381.8 | 865.9 | 404.8 | 276.9 | 195.7 | 155.9 | 132.7 | 119.5 |
| 65° | 2163.1 | 2061.9 | 1686.9 | 1220.9 | 676.9 | 280.3 | 200.7 | 154.3 | 127.6 | 117.8 | 107.9 |
| 67.5° | 1987.2 | 1866.2 | 1418.2 | 955.4 | 461.1 | 192.5 | 149.3 | 126.0 | 109.4 | 104.6 | 101.1 |
| 70° | 1615.7 | 1482.9 | 1038.4 | 625.4 | 257.2 | 134.4 | 114.4 | 104.6 | 94.5 | 94.5 | 89.7 |
| 72.5° | 1041.8 | 904.1 | 532.4 | 267.1 | 131.1 | 102.9 | 92.9 | 89.7 | 81.3 | 82.9 | 78.0 |
| 74° | 532.4 | 414.7 | 217.3 | 141.0 | 107.9 | 91.3 | 82.9 | 81.3 | 73.0 | 74.6 | 69.7 |
| 75° | 270.4 | 214.0 | 152.6 | 117.8 | 99.5 | 86.2 | 76.3 | 76.3 | 66.4 | 68.0 | 63.0 |
| 77.5° | 126.0 | 121.1 | 104.6 | 92.9 | 84.6 | 73.0 | 63.0 | 61.4 | 51.5 | 54.8 | 48.1 |
| 80° | 87.9 | 87.9 | 81.3 | 78.0 | 69.7 | 59.6 | 48.1 | 48.1 | 38.2 | 39.9 | 34.9 |
| 82.5° | 49.8 | 46.4 | 46.4 | 53.1 | 54.8 | 44.7 | 34.9 | 33.1 | 28.2 | 28.2 | 23.3 |
| 85° | 21.6 | 25.0 | 29.8 | 36.5 | 39.9 | 34.9 | 25.0 | 23.3 | 14.9 | 14.9 | 8.4 |
| 87.5° | 0.0 | 1.7 | 1.7 | 3.3 | 6.6 | 6.6 | 0.0 | 3.3 | 0.0 | 1.7 | 0.0 |
| 90° | 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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CANDELA DISTRIBUTION (continued):

| | 115° | 117.5° | 120° | 122.5° | 125° | 127.5° | 130° | 135° | 145° | 155° | 165° |
|-------|-------|--------|-------|--------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 724.9 | 724.9 | 724.9 | 724.9 | 724.9 | 724.9 | 724.9 | 724.9 | 724.9 | 724.9 | 724.9 |
| 2.5° | 693.4 | 685.0 | 690.1 | 681.7 | 685.0 | 676.9 | 680.1 | 675.2 | 670.1 | 663.5 | 661.8 |
| 5° | 648.6 | 642.0 | 640.3 | 632.0 | 633.7 | 627.1 | 620.4 | 612.0 | 602.1 | 588.9 | 583.9 |
| 7.5° | 598.8 | 597.1 | 585.5 | 580.6 | 573.9 | 567.3 | 555.7 | 542.5 | 522.5 | 504.3 | 492.7 |
| 10° | 555.7 | 550.8 | 534.1 | 525.9 | 515.9 | 507.6 | 491.0 | 472.8 | 444.5 | 416.4 | 401.5 |
| 12.5° | 519.2 | 512.6 | 491.0 | 481.0 | 466.1 | 456.2 | 436.3 | 413.0 | 373.2 | 333.5 | 315.1 |
| 15° | 489.4 | 479.3 | 454.5 | 439.6 | 419.7 | 409.8 | 388.2 | 355.0 | 307.0 | 265.4 | 240.6 |
| 17.5° | 454.5 | 441.2 | 414.7 | 396.4 | 376.6 | 358.3 | 336.8 | 301.9 | 247.1 | 209.0 | 184.2 |
| 20° | 416.4 | 399.7 | 371.6 | 346.7 | 325.2 | 308.6 | 287.0 | 252.2 | 197.4 | 167.5 | 154.3 |
| 22.5° | 376.6 | 350.0 | 325.2 | 303.5 | 278.7 | 262.0 | 240.6 | 209.0 | 167.5 | 150.9 | 146.0 |
| 25° | 335.1 | 305.2 | 280.3 | 258.8 | 235.5 | 220.6 | 202.4 | 177.4 | 152.6 | 147.6 | 147.6 |
| 27.5° | 293.6 | 263.7 | 240.6 | 219.0 | 199.1 | 189.1 | 172.6 | 155.9 | 144.3 | 146.0 | 147.6 |
| 30° | 255.5 | 225.7 | 204.1 | 187.5 | 169.2 | 162.5 | 149.3 | 139.3 | 137.7 | 142.7 | 144.3 |
| 32.5° | 222.3 | 195.7 | 175.9 | 162.5 | 147.6 | 144.3 | 132.7 | 127.6 | 132.7 | 139.3 | 137.7 |
| 35° | 194.0 | 172.6 | 152.6 | 144.3 | 131.1 | 129.4 | 121.1 | 117.8 | 124.4 | 132.7 | 132.7 |
| 37.5° | 172.6 | 152.6 | 137.7 | 131.1 | 121.1 | 119.5 | 112.7 | 109.4 | 114.4 | 126.0 | 129.4 |
| 40° | 154.3 | 142.7 | 127.6 | 121.1 | 114.4 | 111.1 | 107.9 | 104.6 | 106.2 | 121.1 | 122.8 |
| 42.5° | 142.7 | 134.4 | 121.1 | 117.8 | 109.4 | 107.9 | 102.9 | 99.5 | 101.1 | 112.7 | 117.8 |
| 45° | 134.4 | 127.6 | 116.2 | 114.4 | 106.2 | 104.6 | 99.5 | 96.2 | 97.8 | 107.9 | 112.7 |
| 47.5° | 127.6 | 121.1 | 111.1 | 107.9 | 102.9 | 101.1 | 97.8 | 94.5 | 94.5 | 104.6 | 109.4 |
| 50° | 124.4 | 117.8 | 107.9 | 104.6 | 99.5 | 97.8 | 94.5 | 91.3 | 92.9 | 101.1 | 104.6 |
| 52.5° | 122.8 | 114.4 | 106.2 | 101.1 | 97.8 | 94.5 | 91.3 | 87.9 | 89.7 | 97.8 | 101.1 |
| 55° | 122.8 | 112.7 | 106.2 | 101.1 | 96.2 | 91.3 | 89.7 | 84.6 | 87.9 | 94.5 | 99.5 |
| 57.5° | 122.8 | 112.7 | 106.2 | 101.1 | 97.8 | 92.9 | 89.7 | 86.2 | 87.9 | 94.5 | 99.5 |
| 60° | 119.5 | 111.1 | 107.9 | 102.9 | 101.1 | 96.2 | 94.5 | 91.3 | 91.3 | 99.5 | 107.9 |
| 62.5° | 114.4 | 109.4 | 107.9 | 104.6 | 104.6 | 101.1 | 101.1 | 97.8 | 97.8 | 107.9 | 116.2 |
| 65° | 107.9 | 104.6 | 106.2 | 104.6 | 104.6 | 104.6 | 102.9 | 102.9 | 102.9 | 111.1 | 121.1 |
| 67.5° | 101.1 | 99.5 | 101.1 | 101.1 | 102.9 | 101.1 | 102.9 | 101.1 | 101.1 | 109.4 | 119.5 |
| 70° | 91.3 | 91.3 | 92.9 | 91.3 | 92.9 | 92.9 | 94.5 | 94.5 | 94.5 | 99.5 | 109.4 |
| 72.5° | 79.6 | 78.0 | 79.6 | 78.0 | 81.3 | 78.0 | 81.3 | 82.9 | 81.3 | 82.9 | 87.9 |
| 74° | 71.3 | 69.7 | 71.3 | 69.7 | 73.0 | 69.7 | 71.3 | 71.3 | 69.7 | 56.4 | 48.1 |
| 75° | 64.7 | 63.0 | 64.7 | 63.0 | 66.4 | 63.0 | 66.4 | 64.7 | 61.4 | 41.5 | 39.9 |
| 77.5° | 51.5 | 46.4 | 51.5 | 46.4 | 49.8 | 44.7 | 48.1 | 41.5 | 31.5 | 29.8 | 29.8 |
| 80° | 38.2 | 33.1 | 36.5 | 31.5 | 29.8 | 23.3 | 25.0 | 23.3 | 21.6 | 23.3 | 23.3 |
| 82.5° | 23.3 | 16.6 | 19.9 | 14.9 | 18.2 | 13.3 | 16.6 | 14.9 | 13.3 | 13.3 | 13.3 |
| 85° | 11.6 | 8.4 | 11.6 | 6.6 | 9.9 | 6.6 | 8.4 | 8.4 | 5.0 | 5.0 | 5.0 |
| 87.5° | 1.7 | 0.0 | 3.3 | 0.0 | 3.3 | 0.0 | 1.7 | 1.7 | 0.0 | 0.0 | 0.0 |
| 90° | 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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CANDELA DISTRIBUTION (continued):

| | 175° | 180° |
|-------|-------|-------|
| 0° | 724.9 | 724.9 |
| 2.5° | 656.9 | 658.5 |
| 5° | 575.6 | 580.6 |
| 7.5° | 486.1 | 489.4 |
| 10° | 391.5 | 394.7 |
| 12.5° | 301.9 | 305.2 |
| 15° | 227.2 | 223.9 |
| 17.5° | 174.2 | 170.9 |
| 20° | 147.6 | 147.6 |
| 22.5° | 144.3 | 142.7 |
| 25° | 146.0 | 144.3 |
| 27.5° | 146.0 | 144.3 |
| 30° | 142.7 | 141.0 |
| 32.5° | 137.7 | 136.0 |
| 35° | 132.7 | 132.7 |
| 37.5° | 129.4 | 131.1 |
| 40° | 124.4 | 126.0 |
| 42.5° | 119.5 | 121.1 |
| 45° | 114.4 | 116.2 |
| 47.5° | 109.4 | 109.4 |
| 50° | 102.9 | 102.9 |
| 52.5° | 101.1 | 101.1 |
| 55° | 101.1 | 101.1 |
| 57.5° | 104.6 | 104.6 |
| 60° | 114.4 | 116.2 |
| 62.5° | 134.4 | 136.0 |
| 65° | 154.3 | 157.7 |
| 67.5° | 155.9 | 160.9 |
| 70° | 150.9 | 155.9 |
| 72.5° | 104.6 | 104.6 |
| 74° | 46.4 | 44.7 |
| 75° | 39.9 | 38.2 |
| 77.5° | 29.8 | 29.8 |
| 80° | 21.6 | 19.9 |
| 82.5° | 11.6 | 11.6 |
| 85° | 3.3 | 3.3 |
| 87.5° | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 |

(END OF REPORT)