

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: INVUE

Report Number: P141130

Luminaire Tested: **EMM-E04-LED-E1-SL3**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P141130
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33691)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: EMM-E04-LED-E1-SL3
Description: EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11575.5 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 97.2
Input Voltage (V): NR
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

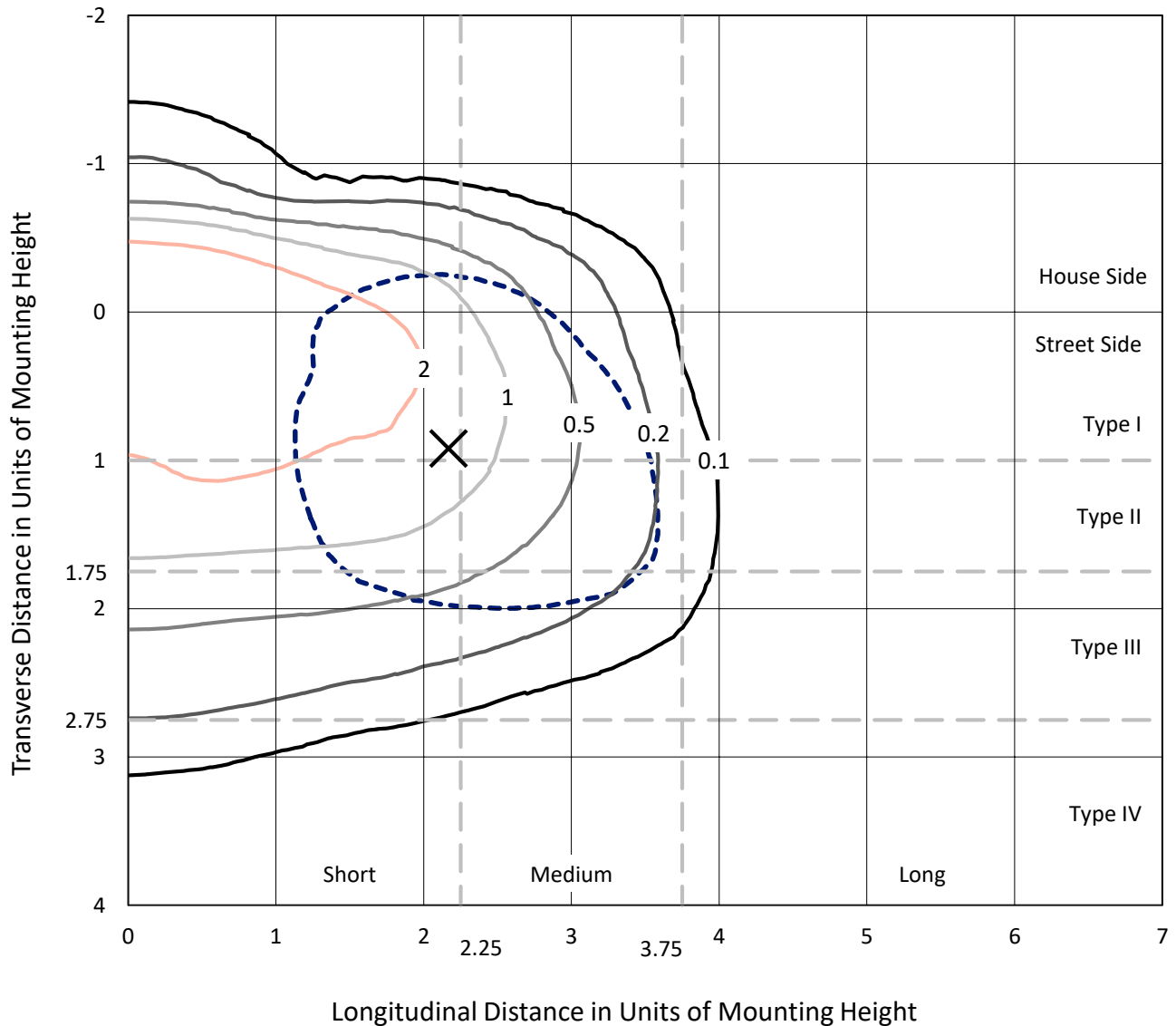


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Iso-Footcandle Lines of Horizontal Illumination

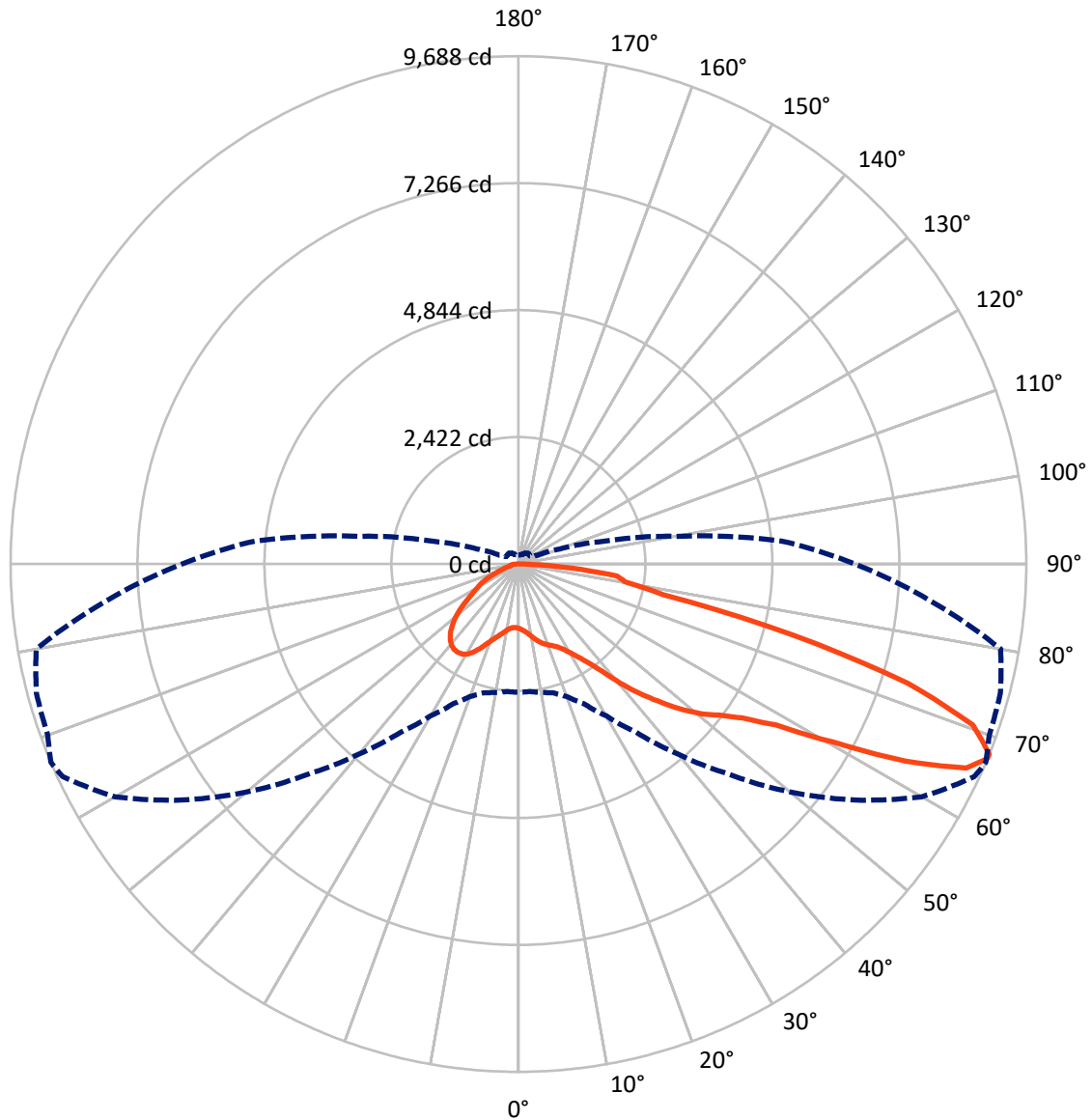
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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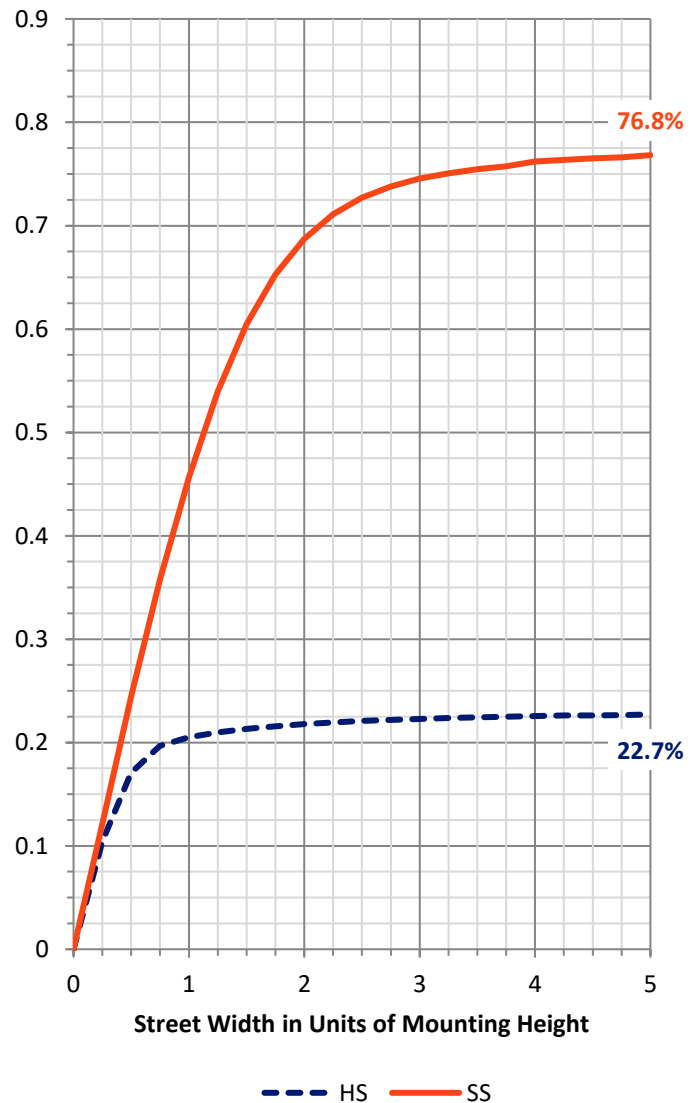
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2663.0 | 0.0 | 2663.0 |
| | % Fixture | 23.0 | 0.0 | 23.0 |
| Street Side | Lumens | 8912.5 | 0.0 | 8912.5 |
| | % Fixture | 77.0 | 0.0 | 77.0 |
| Total | Lumens | 11575.5 | 0.0 | 11575.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 123.1 | 1.1 |
| 10°-20° | 425.6 | 3.7 |
| 20°-30° | 757.7 | 6.5 |
| 30°-40° | 1089.3 | 9.4 |
| 40°-50° | 1660.1 | 14.3 |
| 50°-60° | 2425.0 | 20.9 |
| 60°-70° | 3267.5 | 28.2 |
| 70°-80° | 1604.2 | 13.9 |
| 80°-90° | 223.1 | 1.9 |
| 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° | 11575.5 | 100.0 |
| 0°-180° | 11575.5 | 100.0 |



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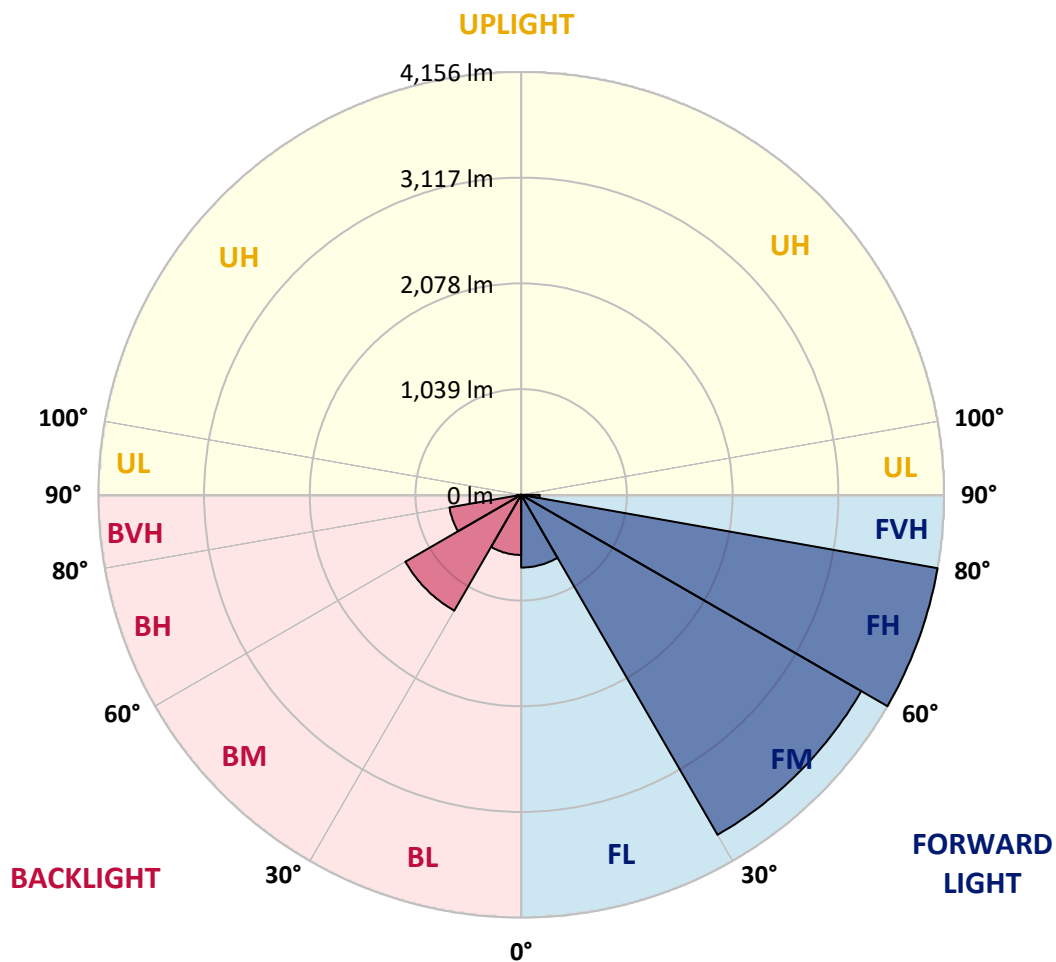
CATALOG NUMBER: EMM-E04-LED-E1-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 715.0 | 6.2 | | | |
| FM | (30°-60°) | 3859.0 | 33.3 | | | |
| FH | (60°-80°) | 4155.6 | 35.9 | | | G2/5000 |
| FVH | (80°-90°) | 182.9 | 1.6 | | | G2/225 |
| BL | (0°-30°) | 591.4 | 5.1 | B2/1000 | | |
| BM | (30°-60°) | 1315.4 | 11.4 | B2/2500 | | |
| BH | (60°-80°) | 716.1 | 6.2 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 40.2 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1228.0 | 1228.0 | 1228.0 | 1228.0 | 1228.0 | 1228.0 | 1228.0 | 1228.0 | 1228.0 | 1228.0 | 1228.0 |
| 2.5° | 1292.0 | 1285.3 | 1290.7 | 1289.3 | 1285.3 | 1280.0 | 1282.7 | 1278.7 | 1276.0 | 1272.0 | 1268.0 |
| 5° | 1376.0 | 1372.0 | 1369.3 | 1365.3 | 1362.7 | 1358.7 | 1356.0 | 1349.3 | 1340.0 | 1333.3 | 1328.0 |
| 7.5° | 1458.7 | 1457.3 | 1453.3 | 1448.0 | 1437.3 | 1434.7 | 1425.3 | 1418.7 | 1410.7 | 1397.3 | 1386.7 |
| 10° | 1556.0 | 1554.7 | 1548.0 | 1540.0 | 1528.0 | 1516.0 | 1505.3 | 1489.3 | 1473.3 | 1461.3 | 1452.0 |
| 12.5° | 1673.3 | 1666.7 | 1653.3 | 1642.7 | 1629.3 | 1610.7 | 1593.3 | 1574.7 | 1552.0 | 1533.3 | 1522.7 |
| 15° | 1790.7 | 1782.7 | 1772.0 | 1757.3 | 1737.3 | 1712.0 | 1686.7 | 1658.7 | 1624.0 | 1600.0 | 1585.3 |
| 17.5° | 1886.7 | 1881.3 | 1869.3 | 1849.3 | 1829.3 | 1798.7 | 1765.3 | 1726.7 | 1684.0 | 1648.0 | 1625.3 |
| 20° | 1956.0 | 1950.7 | 1932.0 | 1908.0 | 1881.3 | 1846.7 | 1810.7 | 1768.0 | 1717.3 | 1673.3 | 1648.0 |
| 22.5° | 1985.3 | 1977.3 | 1956.0 | 1924.0 | 1888.0 | 1845.3 | 1806.7 | 1770.7 | 1724.0 | 1690.7 | 1664.0 |
| 25° | 1994.7 | 1985.3 | 1957.3 | 1917.3 | 1870.7 | 1816.0 | 1772.0 | 1744.0 | 1716.0 | 1704.0 | 1694.7 |
| 27.5° | 1989.3 | 1981.3 | 1950.7 | 1901.3 | 1838.7 | 1774.7 | 1728.0 | 1708.0 | 1709.3 | 1732.0 | 1742.7 |
| 30° | 1970.7 | 1961.3 | 1933.3 | 1878.7 | 1812.0 | 1742.7 | 1701.3 | 1694.7 | 1725.3 | 1782.7 | 1825.3 |
| 32.5° | 1940.0 | 1933.3 | 1910.7 | 1864.0 | 1804.0 | 1744.0 | 1714.7 | 1729.3 | 1782.7 | 1872.0 | 1945.3 |
| 35° | 1932.0 | 1930.7 | 1920.0 | 1894.7 | 1850.7 | 1812.0 | 1800.0 | 1841.3 | 1929.3 | 2052.0 | 2145.3 |
| 37.5° | 1930.7 | 1937.3 | 1942.7 | 1942.7 | 1933.3 | 1930.7 | 1966.7 | 2024.0 | 2154.7 | 2308.0 | 2460.0 |
| 40° | 1957.3 | 1969.3 | 1996.0 | 2030.7 | 2064.0 | 2112.0 | 2185.3 | 2293.3 | 2429.3 | 2616.0 | 2805.3 |
| 42.5° | 2040.0 | 2066.7 | 2112.0 | 2172.0 | 2258.7 | 2348.0 | 2466.7 | 2601.3 | 2776.0 | 2964.0 | 3152.0 |
| 45° | 2201.3 | 2240.0 | 2273.3 | 2368.0 | 2482.7 | 2588.0 | 2742.7 | 2920.0 | 3112.0 | 3348.0 | 3550.7 |
| 47.5° | 2414.7 | 2442.7 | 2512.0 | 2612.0 | 2752.0 | 2902.7 | 3052.0 | 3206.7 | 3437.3 | 3684.0 | 3929.3 |
| 50° | 2628.0 | 2649.3 | 2722.7 | 2840.0 | 3024.0 | 3189.3 | 3360.0 | 3513.3 | 3712.0 | 3973.3 | 4213.3 |
| 52.5° | 2786.7 | 2816.0 | 2880.0 | 2994.7 | 3201.3 | 3389.3 | 3584.0 | 3753.3 | 3977.3 | 4212.0 | 4462.7 |
| 55° | 2896.0 | 2914.7 | 2973.3 | 3085.3 | 3280.0 | 3494.7 | 3714.7 | 3922.7 | 4189.3 | 4454.7 | 4704.0 |
| 57.5° | 2913.3 | 2932.0 | 2985.3 | 3084.0 | 3273.3 | 3498.7 | 3750.7 | 4005.3 | 4328.0 | 4678.7 | 5005.3 |
| 60° | 2893.3 | 2908.0 | 2954.7 | 3036.0 | 3214.7 | 3461.3 | 3761.3 | 4081.3 | 4478.7 | 4930.7 | 5397.3 |
| 62.5° | 2804.0 | 2818.7 | 2861.3 | 2928.0 | 3086.7 | 3353.3 | 3729.3 | 4193.3 | 4693.3 | 5261.3 | 5945.3 |
| 65° | 2636.0 | 2645.3 | 2685.3 | 2738.7 | 2898.7 | 3169.3 | 3584.0 | 4170.7 | 4862.7 | 5636.0 | 6521.3 |
| 67° | 2445.3 | 2441.3 | 2486.7 | 2540.0 | 2686.7 | 2936.0 | 3341.3 | 3918.7 | 4728.0 | 5665.3 | 6762.7 |
| 67.5° | 2386.7 | 2397.3 | 2441.3 | 2478.7 | 2621.3 | 2862.7 | 3250.7 | 3821.3 | 4613.3 | 5598.7 | 6758.7 |
| 70° | 1970.7 | 1990.7 | 2014.7 | 2038.7 | 2164.0 | 2341.3 | 2626.7 | 3178.7 | 3818.7 | 4752.0 | 6136.0 |
| 72.5° | 1352.0 | 1312.0 | 1329.3 | 1321.3 | 1360.0 | 1472.0 | 1670.7 | 2156.0 | 2664.0 | 3466.7 | 4554.7 |
| 75° | 685.3 | 729.3 | 724.0 | 757.3 | 812.0 | 882.7 | 974.7 | 1156.0 | 1554.7 | 2026.7 | 2818.7 |
| 77.5° | 384.0 | 373.3 | 410.7 | 418.7 | 450.7 | 525.3 | 688.0 | 926.7 | 1109.3 | 1302.7 | 1593.3 |
| 80° | 174.7 | 193.3 | 205.3 | 186.7 | 193.3 | 209.3 | 272.0 | 426.7 | 717.3 | 1092.0 | 1256.0 |
| 82.5° | 97.3 | 104.0 | 121.3 | 122.7 | 128.0 | 132.0 | 142.7 | 165.3 | 222.7 | 450.7 | 886.7 |
| 85° | 61.3 | 64.0 | 81.3 | 89.3 | 93.3 | 93.3 | 93.3 | 98.7 | 113.3 | 133.3 | 229.3 |
| 87.5° | 22.7 | 24.0 | 37.3 | 49.3 | 50.7 | 48.0 | 45.3 | 52.0 | 48.0 | 49.3 | 74.7 |
| 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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CATALOG NUMBER: EMM-E04-LED-E1-SL3

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 67° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1228.0 | 1228.0 | 1228.0 | 1228.0 | 1228.0 | 1228.0 | 1228.0 | 1228.0 | 1228.0 | 1228.0 | 1228.0 |
| 2.5° | 1265.3 | 1260.0 | 1254.7 | 1253.3 | 1249.3 | 1246.7 | 1240.0 | 1234.7 | 1229.3 | 1225.3 | 1221.3 |
| 5° | 1316.0 | 1305.3 | 1296.0 | 1292.0 | 1286.7 | 1280.0 | 1266.7 | 1257.3 | 1249.3 | 1241.3 | 1233.3 |
| 7.5° | 1373.3 | 1360.0 | 1346.7 | 1341.3 | 1333.3 | 1321.3 | 1306.7 | 1296.0 | 1282.7 | 1270.7 | 1260.0 |
| 10° | 1437.3 | 1422.7 | 1412.0 | 1406.7 | 1400.0 | 1382.7 | 1373.3 | 1354.7 | 1340.0 | 1324.0 | 1310.7 |
| 12.5° | 1506.7 | 1500.0 | 1485.3 | 1480.0 | 1473.3 | 1461.3 | 1448.0 | 1432.0 | 1413.3 | 1396.0 | 1380.0 |
| 15° | 1569.3 | 1558.7 | 1549.3 | 1548.0 | 1544.0 | 1537.3 | 1520.0 | 1502.7 | 1486.7 | 1464.0 | 1450.7 |
| 17.5° | 1608.0 | 1604.0 | 1602.7 | 1601.3 | 1598.7 | 1594.7 | 1586.7 | 1568.0 | 1553.3 | 1534.7 | 1516.0 |
| 20° | 1632.0 | 1636.0 | 1642.7 | 1648.0 | 1650.7 | 1653.3 | 1649.3 | 1630.7 | 1616.0 | 1600.0 | 1584.0 |
| 22.5° | 1657.3 | 1668.0 | 1685.3 | 1693.3 | 1702.7 | 1716.0 | 1713.3 | 1701.3 | 1693.3 | 1674.7 | 1662.7 |
| 25° | 1693.3 | 1714.7 | 1744.0 | 1754.7 | 1772.0 | 1789.3 | 1793.3 | 1786.7 | 1778.7 | 1765.3 | 1765.3 |
| 27.5° | 1754.7 | 1785.3 | 1824.0 | 1846.7 | 1864.0 | 1888.0 | 1896.0 | 1892.0 | 1893.3 | 1885.3 | 1904.0 |
| 30° | 1850.7 | 1893.3 | 1945.3 | 1969.3 | 1990.7 | 2018.7 | 2024.0 | 2032.0 | 2026.7 | 2041.3 | 2064.0 |
| 32.5° | 1996.0 | 2049.3 | 2102.7 | 2125.3 | 2144.0 | 2173.3 | 2190.7 | 2185.3 | 2204.0 | 2213.3 | 2245.3 |
| 35° | 2220.0 | 2273.3 | 2314.7 | 2318.7 | 2340.0 | 2356.0 | 2372.0 | 2366.7 | 2417.3 | 2437.3 | 2454.7 |
| 37.5° | 2529.3 | 2574.7 | 2600.0 | 2590.7 | 2565.3 | 2596.0 | 2617.3 | 2649.3 | 2681.3 | 2717.3 | 2653.3 |
| 40° | 2930.7 | 3002.7 | 2992.0 | 2978.7 | 2930.7 | 2937.3 | 2946.7 | 2964.0 | 3017.3 | 3005.3 | 2822.7 |
| 42.5° | 3312.0 | 3385.3 | 3373.3 | 3358.7 | 3294.7 | 3261.3 | 3286.7 | 3317.3 | 3346.7 | 3233.3 | 2961.3 |
| 45° | 3697.3 | 3764.0 | 3706.7 | 3726.7 | 3669.3 | 3654.7 | 3704.0 | 3721.3 | 3688.0 | 3480.0 | 3078.7 |
| 47.5° | 4097.3 | 4169.3 | 4141.3 | 4121.3 | 4080.0 | 4076.0 | 4104.0 | 4130.7 | 3998.7 | 3658.7 | 3166.7 |
| 50° | 4404.0 | 4510.7 | 4496.0 | 4484.0 | 4438.7 | 4433.3 | 4500.0 | 4518.7 | 4281.3 | 3848.0 | 3254.7 |
| 52.5° | 4640.0 | 4778.7 | 4805.3 | 4789.3 | 4778.7 | 4781.3 | 4973.3 | 4945.3 | 4617.3 | 4077.3 | 3357.3 |
| 55° | 4918.7 | 5062.7 | 5160.0 | 5180.0 | 5206.7 | 5245.3 | 5625.3 | 5584.0 | 5081.3 | 4408.0 | 3465.3 |
| 57.5° | 5288.0 | 5554.7 | 5701.3 | 5792.0 | 5865.3 | 6116.0 | 6598.7 | 6440.0 | 5724.0 | 4834.7 | 3593.3 |
| 60° | 5832.0 | 6361.3 | 6665.3 | 6896.0 | 7041.3 | 7478.7 | 8064.0 | 7480.0 | 6470.7 | 5346.7 | 3761.3 |
| 62.5° | 6705.3 | 7569.3 | 8150.7 | 8281.3 | 8342.7 | 8758.7 | 9177.3 | 8276.0 | 7009.3 | 5685.3 | 3788.0 |
| 65° | 7552.0 | 8632.0 | 9310.7 | 9386.7 | 9341.3 | 9453.3 | 9570.7 | 8300.0 | 6884.0 | 5525.3 | 3476.0 |
| 67° | 7850.7 | 8882.7 | 9596.0 | 9688.0 | 9554.7 | 9518.7 | 9340.0 | 7862.7 | 6416.0 | 5034.7 | 3041.3 |
| 67.5° | 7834.7 | 8853.3 | 9593.3 | 9686.7 | 9554.7 | 9497.3 | 9234.7 | 7686.7 | 6232.0 | 4914.7 | 2957.3 |
| 70° | 7221.3 | 8200.0 | 9024.0 | 9198.7 | 9125.3 | 8973.3 | 8274.7 | 6510.7 | 5164.0 | 4032.0 | 2280.0 |
| 72.5° | 5862.7 | 6920.0 | 7573.3 | 7766.7 | 7818.7 | 7428.0 | 6162.7 | 4557.3 | 3722.7 | 2881.3 | 1653.3 |
| 75° | 3936.0 | 4986.7 | 5521.3 | 5424.0 | 5108.0 | 4442.7 | 3253.3 | 2404.0 | 2040.0 | 1676.0 | 1022.7 |
| 77.5° | 2232.0 | 3042.7 | 3001.3 | 2833.3 | 2566.7 | 1900.0 | 922.7 | 500.0 | 477.3 | 557.3 | 433.3 |
| 80° | 1490.7 | 1876.0 | 2004.0 | 2069.3 | 2054.7 | 1405.3 | 381.3 | 193.3 | 166.7 | 166.7 | 164.0 |
| 82.5° | 1244.0 | 1621.3 | 1836.0 | 1893.3 | 1764.0 | 1068.0 | 228.0 | 126.7 | 101.3 | 113.3 | 126.7 |
| 85° | 524.0 | 817.3 | 1081.3 | 1040.0 | 826.7 | 416.0 | 116.0 | 66.7 | 66.7 | 88.0 | 110.7 |
| 87.5° | 126.7 | 188.0 | 265.3 | 257.3 | 206.7 | 96.0 | 58.7 | 41.3 | 41.3 | 68.0 | 96.0 |
| 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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CATALOG NUMBER: EMM-E04-LED-E1-SL3

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1228.0 | 1228.0 | 1228.0 | 1228.0 | 1228.0 | 1228.0 | 1228.0 | 1228.0 | 1228.0 | 1228.0 | 1228.0 |
| 2.5° | 1220.0 | 1214.7 | 1214.7 | 1209.3 | 1206.7 | 1204.0 | 1202.7 | 1204.0 | 1200.0 | 1196.0 | 1197.3 |
| 5° | 1226.7 | 1218.7 | 1214.7 | 1205.3 | 1200.0 | 1194.7 | 1190.7 | 1189.3 | 1182.7 | 1178.7 | 1178.7 |
| 7.5° | 1249.3 | 1238.7 | 1230.7 | 1220.0 | 1209.3 | 1201.3 | 1194.7 | 1190.7 | 1181.3 | 1174.7 | 1173.3 |
| 10° | 1296.0 | 1281.3 | 1269.3 | 1253.3 | 1238.7 | 1228.0 | 1216.0 | 1209.3 | 1198.7 | 1192.0 | 1189.3 |
| 12.5° | 1365.3 | 1344.0 | 1325.3 | 1301.3 | 1284.0 | 1268.0 | 1261.3 | 1250.7 | 1246.7 | 1242.7 | 1244.0 |
| 15° | 1430.7 | 1405.3 | 1388.0 | 1369.3 | 1349.3 | 1340.0 | 1326.7 | 1325.3 | 1326.7 | 1320.0 | 1320.0 |
| 17.5° | 1497.3 | 1477.3 | 1457.3 | 1450.7 | 1432.0 | 1425.3 | 1416.0 | 1410.7 | 1398.7 | 1386.7 | 1372.0 |
| 20° | 1566.7 | 1556.0 | 1548.0 | 1540.0 | 1536.0 | 1520.0 | 1496.0 | 1468.0 | 1429.3 | 1394.7 | 1365.3 |
| 22.5° | 1656.0 | 1649.3 | 1650.7 | 1644.0 | 1622.7 | 1582.7 | 1528.0 | 1469.3 | 1406.7 | 1350.7 | 1306.7 |
| 25° | 1769.3 | 1776.0 | 1768.0 | 1734.7 | 1673.3 | 1592.0 | 1508.0 | 1425.3 | 1342.7 | 1276.0 | 1216.0 |
| 27.5° | 1913.3 | 1908.0 | 1870.7 | 1785.3 | 1680.0 | 1564.0 | 1456.0 | 1357.3 | 1258.7 | 1181.3 | 1106.7 |
| 30° | 2070.7 | 2032.0 | 1934.7 | 1801.3 | 1653.3 | 1513.3 | 1380.0 | 1265.3 | 1150.7 | 1060.0 | 976.0 |
| 32.5° | 2229.3 | 2118.7 | 1961.3 | 1782.7 | 1606.7 | 1441.3 | 1292.0 | 1157.3 | 1025.3 | 924.0 | 826.7 |
| 35° | 2349.3 | 2172.0 | 1957.3 | 1742.7 | 1536.0 | 1346.7 | 1173.3 | 1006.7 | 853.3 | 732.0 | 633.3 |
| 37.5° | 2460.0 | 2201.3 | 1930.7 | 1681.3 | 1438.7 | 1221.3 | 1005.3 | 825.3 | 670.7 | 549.3 | 464.0 |
| 40° | 2528.0 | 2198.7 | 1878.7 | 1580.0 | 1304.0 | 1037.3 | 802.7 | 617.3 | 481.3 | 392.0 | 345.3 |
| 42.5° | 2568.0 | 2170.7 | 1789.3 | 1445.3 | 1118.7 | 830.7 | 592.0 | 425.3 | 342.7 | 304.0 | 282.7 |
| 45° | 2588.0 | 2110.7 | 1678.7 | 1265.3 | 894.7 | 593.3 | 408.0 | 306.7 | 273.3 | 262.7 | 257.3 |
| 47.5° | 2576.0 | 2026.7 | 1520.0 | 1062.7 | 666.7 | 406.7 | 292.0 | 258.7 | 248.0 | 242.7 | 241.3 |
| 50° | 2548.0 | 1917.3 | 1353.3 | 842.7 | 473.3 | 292.0 | 245.3 | 236.0 | 232.0 | 230.7 | 228.0 |
| 52.5° | 2508.0 | 1788.0 | 1162.7 | 653.3 | 336.0 | 242.7 | 229.3 | 225.3 | 222.7 | 218.7 | 217.3 |
| 55° | 2441.3 | 1628.0 | 968.0 | 481.3 | 269.3 | 229.3 | 222.7 | 221.3 | 216.0 | 212.0 | 209.3 |
| 57.5° | 2361.3 | 1457.3 | 784.0 | 377.3 | 248.0 | 224.0 | 220.0 | 218.7 | 213.3 | 208.0 | 202.7 |
| 60° | 2321.3 | 1337.3 | 645.3 | 326.7 | 244.0 | 226.7 | 224.0 | 221.3 | 214.7 | 206.7 | 200.0 |
| 62.5° | 2222.7 | 1208.0 | 556.0 | 310.7 | 249.3 | 236.0 | 234.7 | 229.3 | 220.0 | 212.0 | 201.3 |
| 65° | 1968.0 | 1025.3 | 473.3 | 294.7 | 257.3 | 250.7 | 253.3 | 246.7 | 236.0 | 222.7 | 205.3 |
| 67° | 1662.7 | 833.3 | 400.0 | 282.7 | 266.7 | 270.7 | 274.7 | 270.7 | 253.3 | 233.3 | 210.7 |
| 67.5° | 1580.0 | 776.0 | 380.0 | 278.7 | 269.3 | 274.7 | 281.3 | 277.3 | 258.7 | 236.0 | 213.3 |
| 70° | 1188.0 | 556.0 | 301.3 | 264.0 | 278.7 | 293.3 | 306.7 | 305.3 | 286.7 | 258.7 | 222.7 |
| 72.5° | 821.3 | 380.0 | 244.0 | 246.7 | 270.7 | 297.3 | 314.7 | 322.7 | 304.0 | 270.7 | 228.0 |
| 75° | 494.7 | 242.7 | 205.3 | 222.7 | 246.7 | 273.3 | 301.3 | 304.0 | 282.7 | 249.3 | 213.3 |
| 77.5° | 242.7 | 174.7 | 169.3 | 176.0 | 198.7 | 221.3 | 233.3 | 218.7 | 205.3 | 182.7 | 169.3 |
| 80° | 146.7 | 137.3 | 134.7 | 149.3 | 162.7 | 158.7 | 149.3 | 137.3 | 130.7 | 125.3 | 120.0 |
| 82.5° | 122.7 | 124.0 | 126.7 | 129.3 | 126.7 | 112.0 | 96.0 | 88.0 | 82.7 | 82.7 | 84.0 |
| 85° | 125.3 | 128.0 | 117.3 | 108.0 | 96.0 | 80.0 | 65.3 | 56.0 | 57.3 | 58.7 | 58.7 |
| 87.5° | 97.3 | 93.3 | 82.7 | 68.0 | 54.7 | 40.0 | 32.0 | 26.7 | 29.3 | 28.0 | 30.7 |
| 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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|-------|--------|--------|--------|--------|--------|
| 0° | 1228.0 | 1228.0 | 1228.0 | 1228.0 | 1228.0 |
| 2.5° | 1197.3 | 1196.0 | 1197.3 | 1197.3 | 1198.7 |
| 5° | 1176.0 | 1173.3 | 1173.3 | 1174.7 | 1174.7 |
| 7.5° | 1170.7 | 1168.0 | 1168.0 | 1169.3 | 1168.0 |
| 10° | 1189.3 | 1188.0 | 1190.7 | 1189.3 | 1189.3 |
| 12.5° | 1245.3 | 1245.3 | 1250.7 | 1253.3 | 1250.7 |
| 15° | 1321.3 | 1318.7 | 1322.7 | 1324.0 | 1325.3 |
| 17.5° | 1364.0 | 1352.0 | 1348.0 | 1350.7 | 1345.3 |
| 20° | 1340.0 | 1320.0 | 1312.0 | 1310.7 | 1301.3 |
| 22.5° | 1272.0 | 1242.7 | 1230.7 | 1225.3 | 1214.7 |
| 25° | 1176.0 | 1141.3 | 1125.3 | 1112.0 | 1105.3 |
| 27.5° | 1061.3 | 1018.7 | 996.0 | 985.3 | 981.3 |
| 30° | 917.3 | 876.0 | 842.7 | 825.3 | 820.0 |
| 32.5° | 757.3 | 697.3 | 662.7 | 641.3 | 626.7 |
| 35° | 565.3 | 508.0 | 482.7 | 466.7 | 448.0 |
| 37.5° | 410.7 | 376.0 | 354.7 | 344.0 | 340.0 |
| 40° | 317.3 | 300.0 | 289.3 | 288.0 | 286.7 |
| 42.5° | 274.7 | 266.7 | 265.3 | 262.7 | 260.0 |
| 45° | 253.3 | 250.7 | 252.0 | 248.0 | 245.3 |
| 47.5° | 238.7 | 237.3 | 237.3 | 234.7 | 233.3 |
| 50° | 226.7 | 226.7 | 225.3 | 224.0 | 224.0 |
| 52.5° | 216.0 | 217.3 | 217.3 | 214.7 | 214.7 |
| 55° | 206.7 | 206.7 | 208.0 | 206.7 | 206.7 |
| 57.5° | 200.0 | 198.7 | 200.0 | 200.0 | 200.0 |
| 60° | 196.0 | 193.3 | 192.0 | 193.3 | 193.3 |
| 62.5° | 192.0 | 188.0 | 186.7 | 186.7 | 188.0 |
| 65° | 192.0 | 185.3 | 182.7 | 182.7 | 181.3 |
| 67° | 193.3 | 182.7 | 177.3 | 174.7 | 173.3 |
| 67.5° | 193.3 | 181.3 | 174.7 | 173.3 | 172.0 |
| 70° | 193.3 | 176.0 | 166.7 | 160.0 | 160.0 |
| 72.5° | 192.0 | 170.7 | 156.0 | 149.3 | 146.7 |
| 75° | 182.7 | 161.3 | 148.0 | 140.0 | 137.3 |
| 77.5° | 153.3 | 140.0 | 133.3 | 126.7 | 125.3 |
| 80° | 116.0 | 109.3 | 104.0 | 89.3 | 82.7 |
| 82.5° | 82.7 | 78.7 | 69.3 | 64.0 | 60.0 |
| 85° | 58.7 | 54.7 | 50.7 | 45.3 | 45.3 |
| 87.5° | 32.0 | 30.7 | 29.3 | 26.7 | 24.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)