

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: P180238

Luminaire Tested: **ICS-E03-LED-E1-5XQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180238
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-E03-LED-E1-5XQ
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8587.5 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

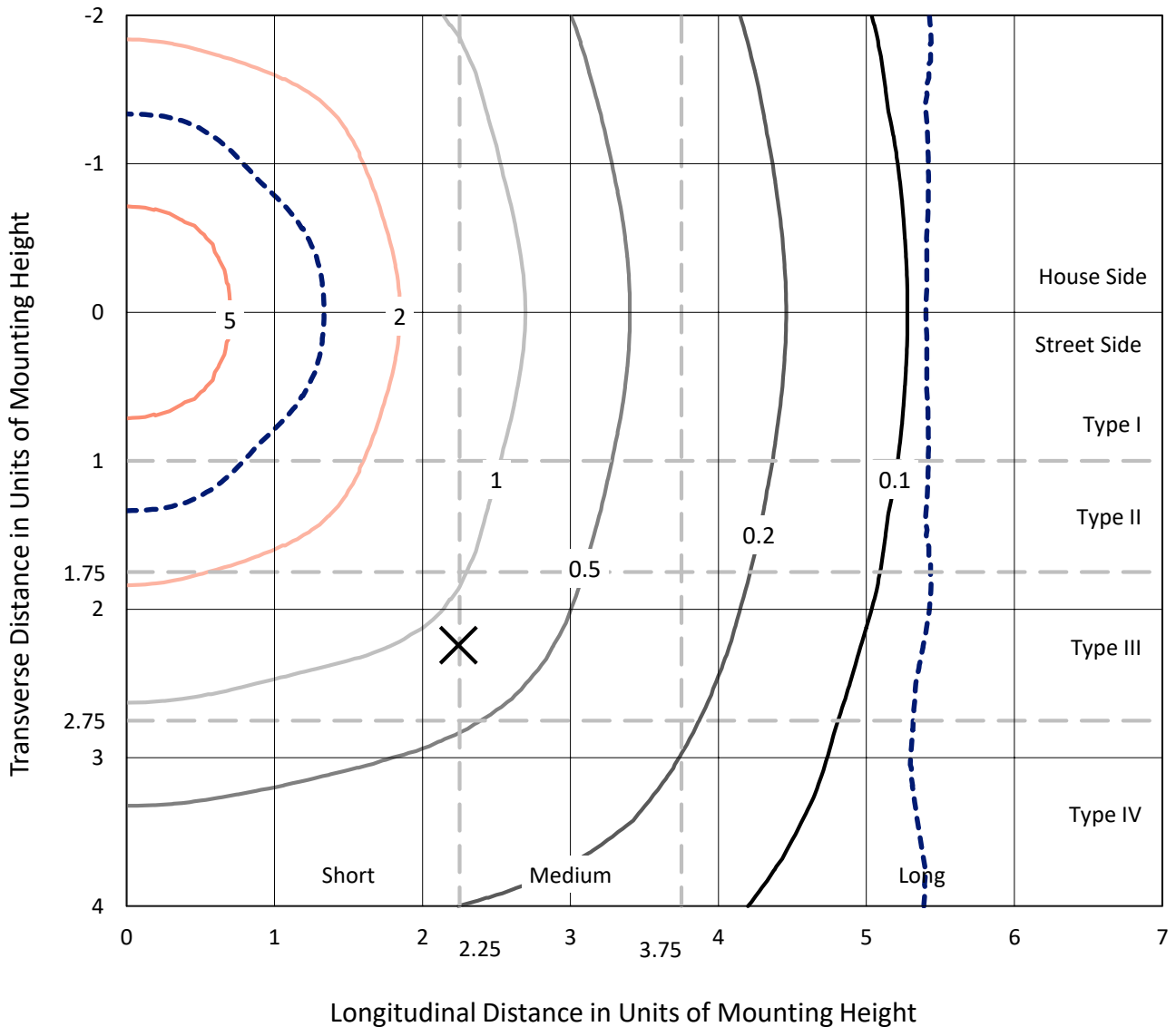
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P180238
 CATALOG NUMBER: ICS-E03-LED-E1-5XQ

Iso-Footcandle Lines of Horizontal Illumination

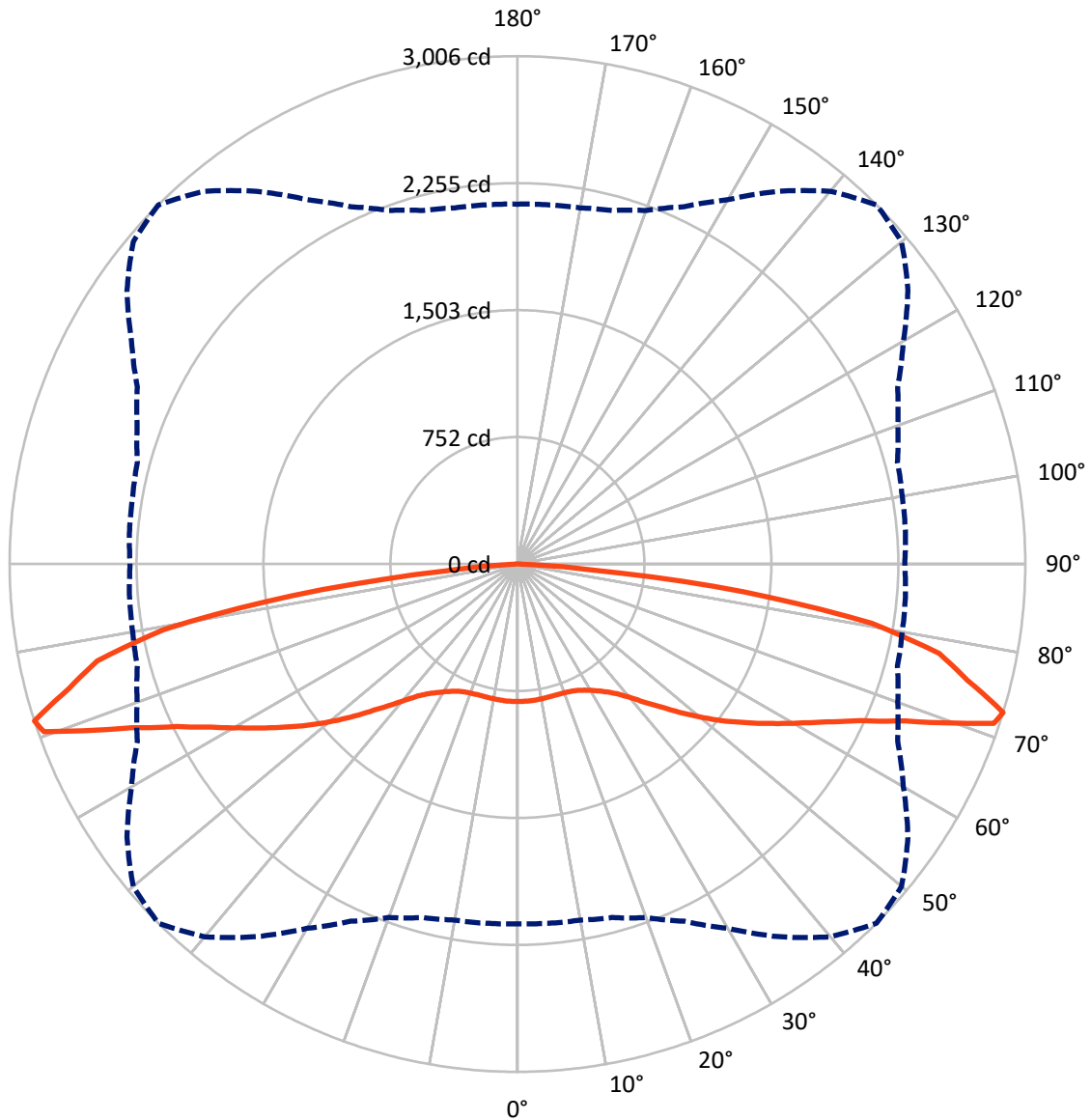
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.1 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P180238
CATALOG NUMBER: ICS-E03-LED-E1-5XQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P180238

CATALOG NUMBER: ICS-E03-LED-E1-5XQ

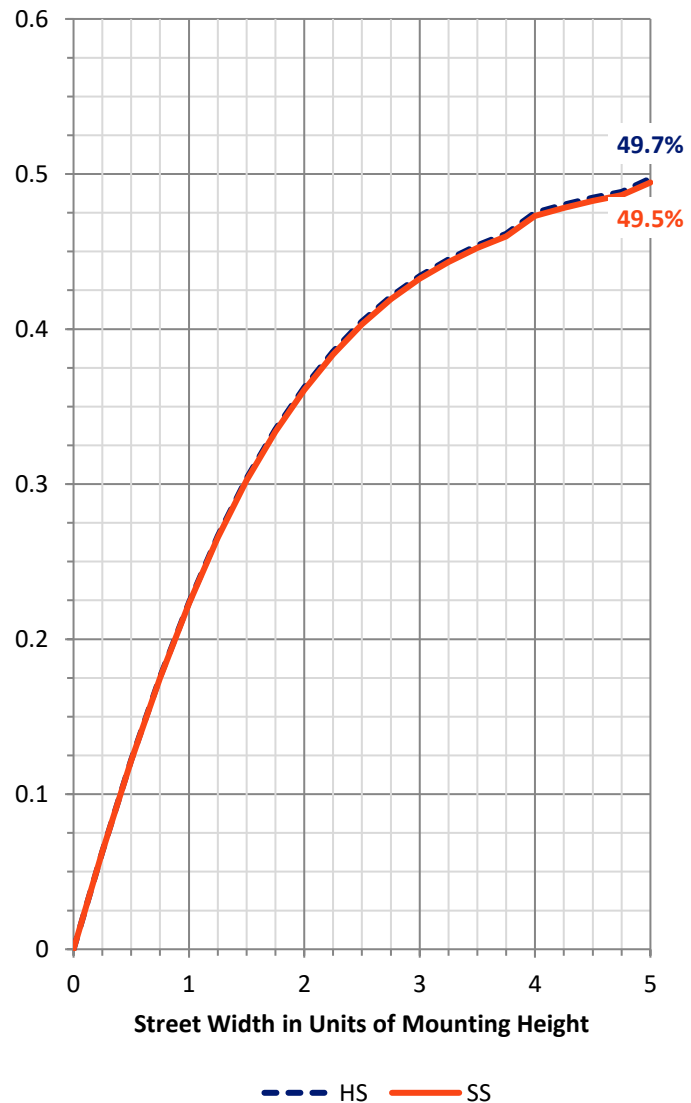
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4293.7 | 0.0 | 4293.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4293.7 | 0.0 | 4293.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 8587.5 | 0.0 | 8587.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 77.5 | 0.9 |
| 10°-20° | 229.4 | 2.7 |
| 20°-30° | 384.1 | 4.5 |
| 30°-40° | 585.6 | 6.8 |
| 40°-50° | 935.1 | 10.9 |
| 50°-60° | 1437.7 | 16.7 |
| 60°-70° | 2093.3 | 24.4 |
| 70°-80° | 2358.1 | 27.5 |
| 80°-90° | 486.8 | 5.7 |
| 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° | 8587.5 | 100.0 |
| 0°-180° | 8587.5 | 100.0 |



REPORT NUMBER: P180238

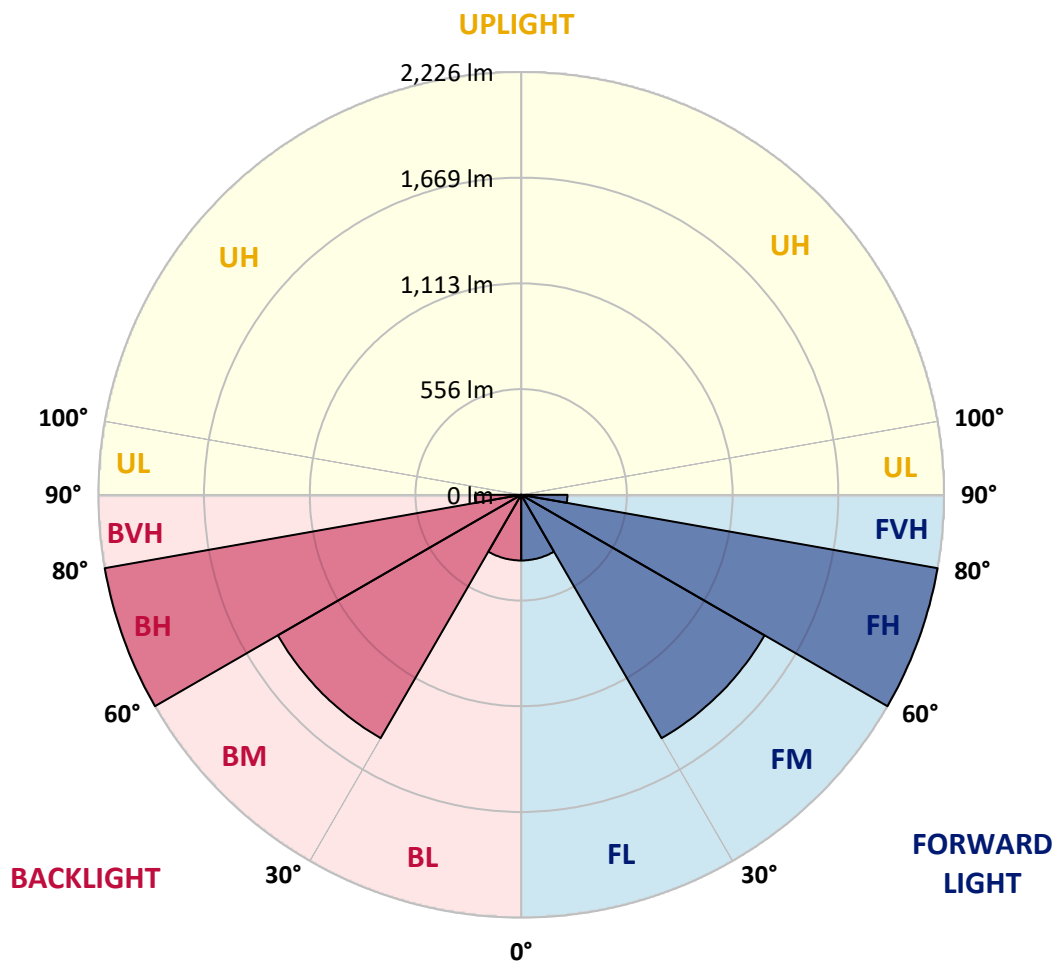
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 345.5 | 4.0 | | | |
| FM | (30°-60°) | 1479.2 | 17.2 | | | |
| FH | (60°-80°) | 2225.7 | 25.9 | | | G2/5000 |
| FVH | (80°-90°) | 243.4 | 2.8 | | | G3/500 |
| BL | (0°-30°) | 345.5 | 4.0 | B1/500 | | |
| BM | (30°-60°) | 1479.2 | 17.2 | B2/2500 | | |
| BH | (60°-80°) | 2225.7 | 25.9 | B3/2500 | | G2/5000 |
| BVH | (80°-90°) | 243.4 | 2.8 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type V Short





REPORT NUMBER: P180238

CATALOG NUMBER: ICS-E03-LED-E1-5XQ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 813.6 | 813.6 | 813.6 | 813.6 | 813.6 | 813.6 | 813.6 | 813.6 | 813.6 | 813.6 | 813.6 |
| 2.5° | 815.0 | 815.4 | 815.2 | 814.7 | 815.0 | 814.7 | 814.3 | 814.0 | 812.5 | 813.4 | 814.7 |
| 5° | 815.0 | 814.5 | 814.3 | 814.1 | 814.0 | 814.7 | 814.0 | 813.4 | 813.2 | 813.6 | 812.9 |
| 7.5° | 814.5 | 813.6 | 813.2 | 812.9 | 813.2 | 813.4 | 812.7 | 811.8 | 812.5 | 811.8 | 810.9 |
| 10° | 813.2 | 812.5 | 812.7 | 811.8 | 812.0 | 811.8 | 810.9 | 810.2 | 810.7 | 810.0 | 808.9 |
| 12.5° | 813.6 | 812.5 | 812.2 | 811.8 | 811.6 | 811.4 | 810.2 | 809.1 | 809.3 | 808.9 | 807.8 |
| 15° | 813.6 | 812.9 | 812.7 | 811.8 | 811.6 | 811.1 | 809.8 | 809.3 | 809.3 | 808.6 | 807.3 |
| 17.5° | 814.0 | 813.6 | 813.6 | 812.5 | 812.0 | 811.8 | 810.2 | 809.6 | 810.2 | 808.9 | 808.0 |
| 20° | 815.4 | 815.0 | 815.2 | 814.5 | 813.6 | 813.6 | 812.5 | 812.0 | 812.2 | 812.0 | 809.6 |
| 22.5° | 818.1 | 818.1 | 818.6 | 818.3 | 818.1 | 818.3 | 817.4 | 817.4 | 817.6 | 817.7 | 815.6 |
| 25° | 825.8 | 825.5 | 826.0 | 826.0 | 826.2 | 827.8 | 827.1 | 826.9 | 828.0 | 828.0 | 826.0 |
| 27.5° | 840.2 | 839.7 | 840.2 | 840.6 | 841.7 | 843.8 | 843.3 | 844.0 | 845.8 | 845.3 | 843.5 |
| 30° | 856.8 | 856.4 | 857.5 | 858.8 | 859.7 | 862.9 | 861.5 | 864.9 | 866.5 | 867.8 | 866.5 |
| 32.5° | 881.1 | 881.1 | 883.1 | 884.0 | 886.0 | 889.2 | 889.6 | 892.4 | 894.4 | 896.6 | 895.1 |
| 35° | 913.6 | 913.1 | 914.7 | 916.2 | 918.7 | 921.6 | 922.8 | 926.4 | 929.6 | 931.1 | 928.2 |
| 37.5° | 963.0 | 960.6 | 963.5 | 964.4 | 966.4 | 967.1 | 970.3 | 974.8 | 978.2 | 977.7 | 975.7 |
| 40° | 1030.2 | 1029.7 | 1028.6 | 1027.2 | 1030.4 | 1031.5 | 1031.5 | 1037.6 | 1043.0 | 1042.1 | 1041.9 |
| 42.5° | 1108.4 | 1106.4 | 1105.1 | 1105.1 | 1106.9 | 1107.3 | 1114.3 | 1118.8 | 1122.6 | 1123.5 | 1122.6 |
| 45° | 1192.6 | 1190.6 | 1191.0 | 1190.1 | 1190.8 | 1193.7 | 1197.8 | 1206.1 | 1213.3 | 1213.5 | 1209.7 |
| 47.5° | 1283.1 | 1276.8 | 1281.7 | 1274.7 | 1279.0 | 1281.2 | 1291.4 | 1303.5 | 1316.1 | 1318.4 | 1315.0 |
| 50° | 1374.8 | 1374.2 | 1373.7 | 1372.4 | 1374.4 | 1379.4 | 1391.7 | 1410.8 | 1423.0 | 1431.1 | 1425.7 |
| 52.5° | 1475.2 | 1471.8 | 1470.2 | 1468.0 | 1470.0 | 1479.7 | 1497.0 | 1513.7 | 1535.5 | 1544.7 | 1537.3 |
| 55° | 1572.9 | 1571.7 | 1565.9 | 1565.6 | 1569.9 | 1585.0 | 1603.9 | 1624.4 | 1648.0 | 1658.4 | 1655.6 |
| 57.5° | 1673.2 | 1666.7 | 1664.9 | 1662.2 | 1670.7 | 1684.9 | 1708.1 | 1745.0 | 1769.5 | 1781.2 | 1774.4 |
| 60° | 1771.3 | 1766.4 | 1762.5 | 1761.6 | 1767.5 | 1787.3 | 1820.6 | 1864.9 | 1895.3 | 1910.6 | 1899.8 |
| 62.5° | 1876.6 | 1873.4 | 1869.0 | 1863.8 | 1876.2 | 1901.6 | 1943.0 | 1992.0 | 2036.8 | 2055.7 | 2039.3 |
| 65° | 2007.6 | 2001.0 | 1996.1 | 1989.6 | 1999.7 | 2031.6 | 2083.6 | 2152.7 | 2212.8 | 2234.8 | 2223.1 |
| 67.5° | 2145.7 | 2139.6 | 2140.1 | 2136.0 | 2154.0 | 2198.4 | 2265.4 | 2359.2 | 2439.8 | 2477.4 | 2455.3 |
| 70° | 2266.3 | 2269.7 | 2270.6 | 2287.0 | 2318.0 | 2385.6 | 2497.1 | 2644.1 | 2766.3 | 2823.7 | 2800.0 |
| 71° | 2230.8 | 2238.2 | 2249.6 | 2266.8 | 2320.3 | 2400.2 | 2552.5 | 2730.5 | 2876.4 | 2973.6 | 2940.9 |
| 72.5° | 2130.0 | 2134.4 | 2140.3 | 2166.4 | 2226.9 | 2332.7 | 2489.5 | 2692.9 | 2880.4 | 3006.2 | 2968.4 |
| 75° | 1984.2 | 1988.4 | 1990.4 | 2008.7 | 2063.8 | 2156.0 | 2299.6 | 2480.0 | 2645.4 | 2752.6 | 2742.0 |
| 77.5° | 1764.1 | 1764.8 | 1780.5 | 1808.6 | 1870.5 | 1976.0 | 2127.2 | 2314.4 | 2469.9 | 2553.2 | 2500.3 |
| 80° | 1266.8 | 1258.3 | 1274.5 | 1310.7 | 1387.2 | 1508.3 | 1663.1 | 1876.8 | 2049.4 | 2127.2 | 2045.4 |
| 82.5° | 481.9 | 508.0 | 549.2 | 609.1 | 635.0 | 769.6 | 914.0 | 1039.6 | 1185.0 | 1347.4 | 1306.7 |
| 85° | 51.8 | 58.3 | 73.1 | 90.7 | 114.5 | 158.4 | 218.9 | 298.8 | 368.3 | 432.9 | 384.3 |
| 87.5° | 19.3 | 19.8 | 22.0 | 25.4 | 25.9 | 27.0 | 28.8 | 33.5 | 31.3 | 27.0 | 21.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P180238

CATALOG NUMBER: ICS-E03-LED-E1-5XQ

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 813.6 | 813.6 | 813.6 | 813.6 | 813.6 | 813.6 | 813.6 | 813.6 |
| 2.5° | 813.6 | 813.8 | 813.6 | 813.8 | 813.8 | 812.9 | 813.2 | 812.7 |
| 5° | 813.4 | 812.7 | 812.9 | 813.2 | 812.9 | 813.4 | 812.7 | 813.2 |
| 7.5° | 812.2 | 810.9 | 811.3 | 811.3 | 810.9 | 811.6 | 811.1 | 810.9 |
| 10° | 810.0 | 808.2 | 809.1 | 808.6 | 808.4 | 808.6 | 808.6 | 808.6 |
| 12.5° | 808.0 | 806.8 | 807.1 | 806.8 | 806.6 | 807.3 | 807.1 | 807.3 |
| 15° | 807.5 | 805.7 | 805.5 | 805.1 | 805.3 | 805.7 | 805.7 | 806.4 |
| 17.5° | 807.1 | 804.8 | 804.6 | 804.2 | 804.4 | 805.3 | 805.5 | 805.0 |
| 20° | 808.4 | 806.6 | 806.2 | 805.7 | 805.5 | 806.6 | 806.4 | 806.4 |
| 22.5° | 814.7 | 812.5 | 812.2 | 810.4 | 809.8 | 810.4 | 810.0 | 810.0 |
| 25° | 824.8 | 822.2 | 821.2 | 818.8 | 817.0 | 817.0 | 816.3 | 815.8 |
| 27.5° | 843.1 | 839.0 | 838.1 | 836.1 | 833.6 | 834.1 | 832.7 | 832.5 |
| 30° | 864.2 | 860.6 | 857.5 | 854.6 | 851.6 | 850.5 | 848.9 | 848.7 |
| 32.5° | 891.9 | 887.9 | 884.0 | 880.4 | 876.4 | 874.8 | 872.1 | 870.8 |
| 35° | 926.0 | 920.5 | 916.0 | 913.6 | 909.5 | 907.5 | 905.7 | 907.7 |
| 37.5° | 973.4 | 966.9 | 964.7 | 961.7 | 959.0 | 955.9 | 956.6 | 955.9 |
| 40° | 1039.2 | 1033.3 | 1031.0 | 1025.9 | 1025.2 | 1021.6 | 1023.8 | 1021.6 |
| 42.5° | 1120.4 | 1109.6 | 1108.0 | 1104.0 | 1102.6 | 1100.6 | 1101.5 | 1099.9 |
| 45° | 1208.8 | 1199.1 | 1197.3 | 1190.8 | 1191.0 | 1186.3 | 1188.1 | 1188.1 |
| 47.5° | 1308.2 | 1298.1 | 1289.8 | 1285.1 | 1283.3 | 1280.4 | 1281.9 | 1281.7 |
| 50° | 1410.8 | 1397.1 | 1387.9 | 1378.7 | 1374.6 | 1375.8 | 1372.6 | 1378.0 |
| 52.5° | 1521.1 | 1500.6 | 1487.6 | 1478.8 | 1471.2 | 1472.7 | 1473.2 | 1474.8 |
| 55° | 1635.2 | 1609.1 | 1590.2 | 1578.7 | 1571.7 | 1572.2 | 1574.2 | 1576.0 |
| 57.5° | 1749.9 | 1717.3 | 1691.6 | 1674.6 | 1670.0 | 1672.1 | 1672.1 | 1671.8 |
| 60° | 1869.0 | 1829.8 | 1796.7 | 1777.4 | 1773.3 | 1772.2 | 1781.0 | 1778.0 |
| 62.5° | 1996.8 | 1949.7 | 1915.5 | 1890.8 | 1884.9 | 1889.0 | 1896.8 | 1895.0 |
| 65° | 2166.2 | 2101.1 | 2057.0 | 2032.5 | 2022.6 | 2026.7 | 2037.2 | 2036.8 |
| 67.5° | 2384.6 | 2293.8 | 2235.5 | 2204.0 | 2196.8 | 2201.7 | 2207.6 | 2213.2 |
| 70° | 2711.4 | 2581.6 | 2498.3 | 2430.1 | 2400.8 | 2395.2 | 2401.1 | 2401.3 |
| 71° | 2826.4 | 2677.2 | 2544.6 | 2461.4 | 2413.4 | 2393.2 | 2394.8 | 2384.6 |
| 72.5° | 2821.7 | 2637.8 | 2482.8 | 2395.7 | 2329.1 | 2312.9 | 2305.0 | 2292.9 |
| 75° | 2631.5 | 2465.9 | 2331.3 | 2236.4 | 2172.2 | 2153.1 | 2139.2 | 2138.5 |
| 77.5° | 2386.4 | 2264.3 | 2116.0 | 2015.4 | 1937.4 | 1905.6 | 1891.4 | 1891.0 |
| 80° | 1918.4 | 1735.5 | 1627.1 | 1566.6 | 1472.3 | 1445.0 | 1416.2 | 1405.4 |
| 82.5° | 1160.2 | 906.6 | 737.1 | 655.0 | 609.5 | 502.0 | 450.4 | 426.2 |
| 85° | 270.2 | 191.9 | 132.3 | 86.8 | 62.6 | 49.7 | 38.2 | 33.8 |
| 87.5° | 18.2 | 14.4 | 12.8 | 10.4 | 7.9 | 7.6 | 4.7 | 4.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)