

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: P159999

Luminaire Tested: **ENT-E02-LED-E1-BL2-7050-ULG**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P159999
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P20107) AND DOWNLIGHT
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-E02-LED-E1-BL2-7050-ULG
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5934.7 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U3 - G2

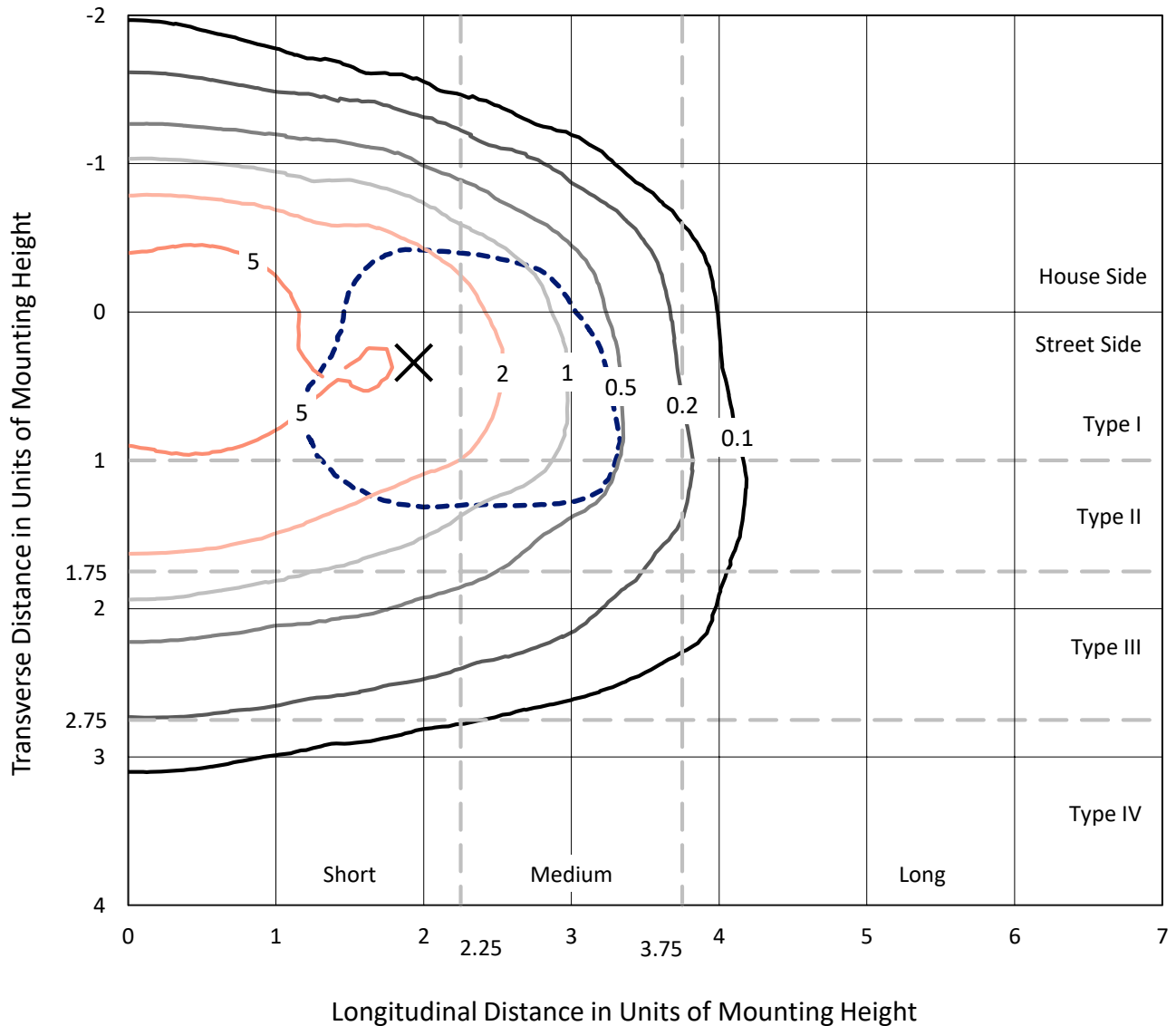
Input Watts (W): 54.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

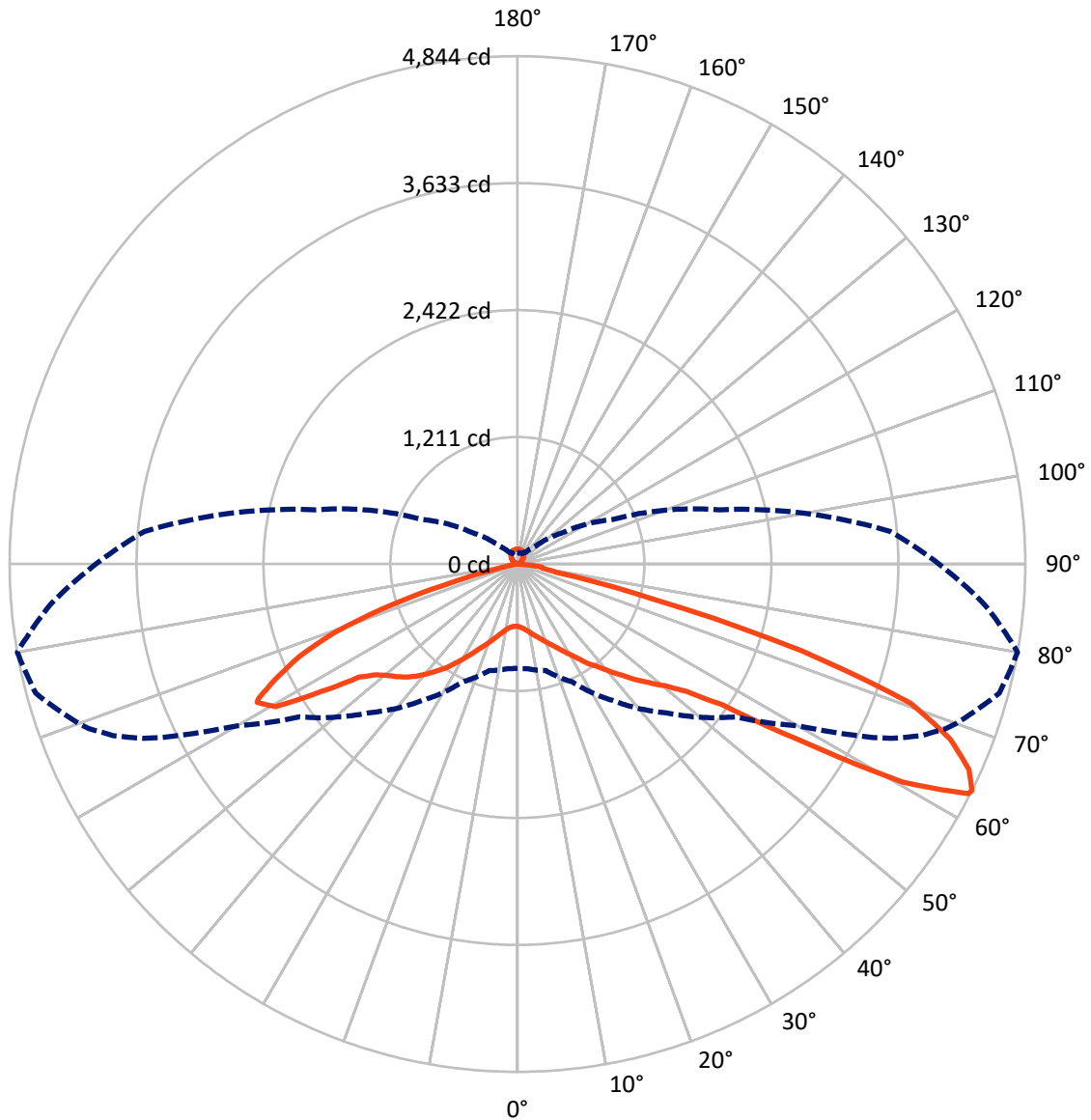
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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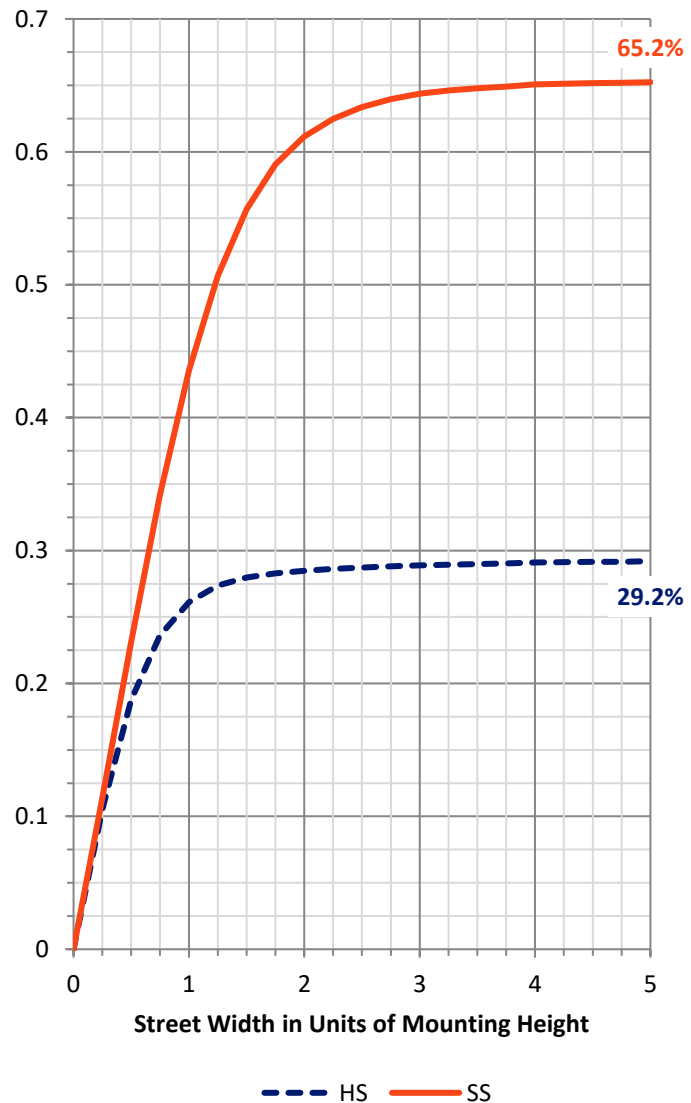
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1750.0 | 157.7 | 1907.7 |
| | % Fixture | 29.5 | 2.7 | 32.1 |
| Street Side | Lumens | 3869.2 | 157.7 | 4026.9 |
| | % Fixture | 65.2 | 2.7 | 67.9 |
| Total | Lumens | 5619.2 | 315.5 | 5934.7 |
| | % Fixture | 94.7 | 5.3 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 59.7 | 1.0 |
| 10°-20° | 204.6 | 3.4 |
| 20°-30° | 384.4 | 6.5 |
| 30°-40° | 610.1 | 10.3 |
| 40°-50° | 920.9 | 15.5 |
| 50°-60° | 1294.5 | 21.8 |
| 60°-70° | 1510.3 | 25.4 |
| 70°-80° | 583.8 | 9.8 |
| 80°-90° | 50.8 | 0.9 |
| 90°-100° | 1.3 | 0.0 |
| 100°-110° | 12.3 | 0.2 |
| 110°-120° | 25.2 | 0.4 |
| 120°-130° | 43.0 | 0.7 |
| 130°-140° | 60.0 | 1.0 |
| 140°-150° | 65.4 | 1.1 |
| 150°-160° | 56.9 | 1.0 |
| 160°-170° | 38.2 | 0.6 |
| 170°-180° | 13.3 | 0.2 |
| 0°-90° | 5619.2 | 94.7 |
| 0°-180° | 5934.7 | 100.0 |

Coefficient of Utilization



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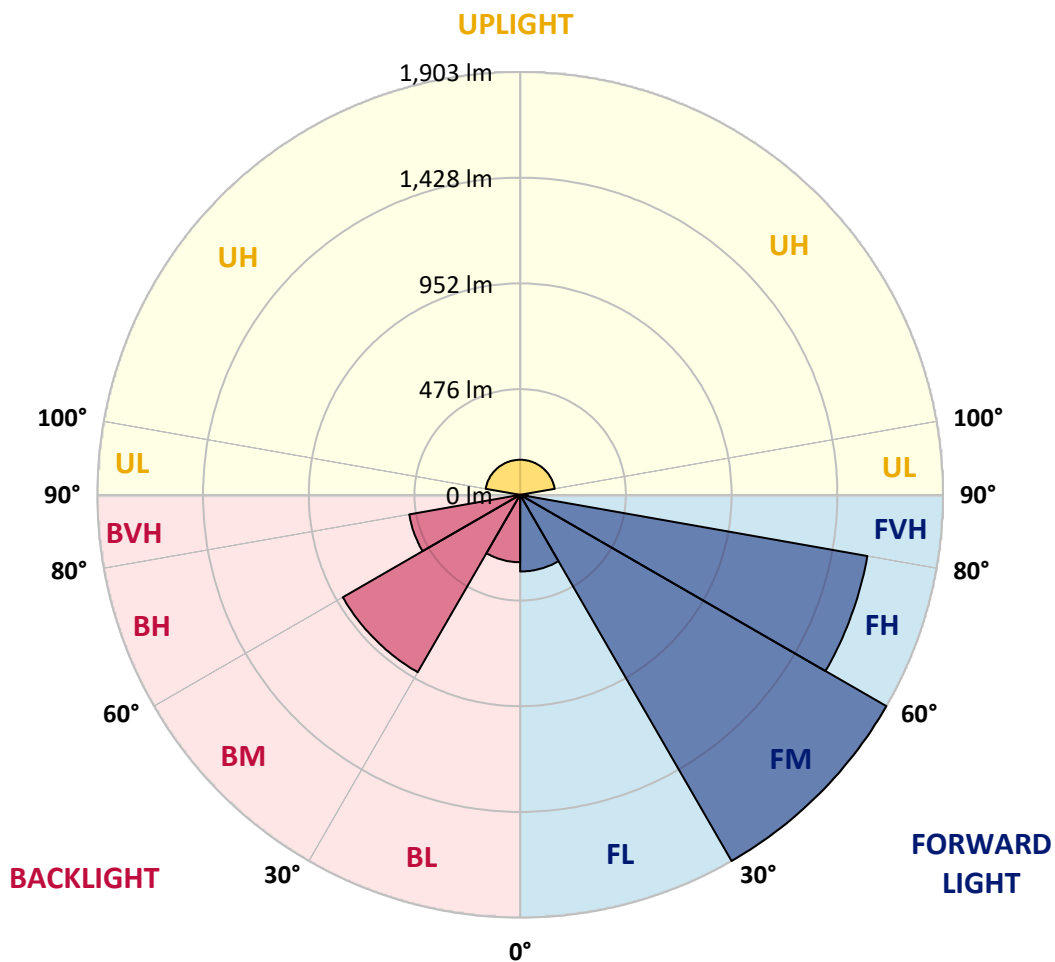
CATALOG NUMBER: ENT-E02-LED-E1-BL2-7050-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|--------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 345.1 | 5.8 | | | |
| FM | (30°-60°) | 1903.4 | 32.1 | | | |
| FH | (60°-80°) | 1586.8 | 26.7 | | | G1/1800 |
| FVH | (80°-90°) | 33.9 | 0.6 | | | G1/100 |
| BL | (0°-30°) | 303.5 | 5.1 | B1/500 | | |
| BM | (30°-60°) | 922.2 | 15.5 | B1/1000 | | |
| BH | (60°-80°) | 507.3 | 8.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 17.0 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 1.3 | 0.0 | | U1/10 | |
| UH | (100°-180°) | 157.7 | 2.7 | | U3/500 | |

BUG Rating: B2-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 595.1 | 595.1 | 595.1 | 595.1 | 595.1 | 595.1 | 595.1 | 595.1 | 595.1 | 595.1 | 595.1 |
| 2.5° | 624.9 | 622.8 | 623.9 | 622.8 | 622.8 | 620.8 | 614.6 | 614.6 | 613.6 | 614.6 | 612.6 |
| 5° | 658.8 | 657.7 | 656.7 | 654.7 | 654.7 | 650.6 | 640.3 | 638.2 | 639.3 | 637.2 | 633.1 |
| 7.5° | 696.7 | 695.7 | 693.6 | 689.5 | 687.5 | 681.3 | 667.0 | 664.9 | 663.9 | 661.8 | 658.8 |
| 10° | 734.7 | 733.7 | 730.6 | 725.5 | 720.3 | 711.1 | 696.7 | 691.6 | 690.6 | 689.5 | 686.5 |
| 12.5° | 773.7 | 770.6 | 771.6 | 762.4 | 754.2 | 742.9 | 726.5 | 721.4 | 720.3 | 719.3 | 718.3 |
| 15° | 816.8 | 815.8 | 813.7 | 801.4 | 786.0 | 770.6 | 754.2 | 748.0 | 743.9 | 745.0 | 743.9 |
| 17.5° | 857.8 | 856.8 | 849.6 | 832.2 | 811.6 | 794.2 | 773.7 | 769.6 | 769.6 | 768.6 | 768.6 |
| 20° | 887.6 | 886.6 | 879.4 | 857.8 | 831.1 | 811.6 | 795.2 | 795.2 | 794.2 | 795.2 | 796.3 |
| 22.5° | 900.9 | 900.9 | 891.7 | 868.1 | 839.4 | 825.0 | 819.9 | 822.9 | 824.0 | 825.0 | 827.0 |
| 25° | 906.1 | 906.1 | 896.8 | 869.1 | 842.4 | 844.5 | 850.6 | 855.8 | 857.8 | 857.8 | 865.0 |
| 27.5° | 915.3 | 916.3 | 904.0 | 874.2 | 852.7 | 872.2 | 887.6 | 894.8 | 897.8 | 899.9 | 909.1 |
| 30° | 943.0 | 942.0 | 931.7 | 899.9 | 883.5 | 911.2 | 938.9 | 946.1 | 953.3 | 953.3 | 963.5 |
| 32.5° | 984.0 | 983.0 | 976.9 | 952.2 | 945.0 | 979.9 | 1004.6 | 1019.9 | 1018.9 | 1021.0 | 1028.2 |
| 35° | 1038.4 | 1039.4 | 1043.5 | 1037.4 | 1043.5 | 1078.4 | 1106.1 | 1112.3 | 1113.3 | 1114.4 | 1115.4 |
| 37.5° | 1100.0 | 1101.0 | 1123.6 | 1143.1 | 1170.8 | 1222.1 | 1238.5 | 1241.6 | 1234.4 | 1234.4 | 1232.4 |
| 40° | 1146.2 | 1151.3 | 1201.6 | 1252.9 | 1311.4 | 1381.1 | 1405.8 | 1399.6 | 1394.5 | 1390.4 | 1378.1 |
| 42.5° | 1240.6 | 1243.6 | 1297.0 | 1370.9 | 1453.0 | 1549.4 | 1592.5 | 1572.0 | 1571.0 | 1552.5 | 1543.3 |
| 45° | 1335.0 | 1343.2 | 1400.6 | 1483.7 | 1582.3 | 1715.6 | 1779.3 | 1761.8 | 1758.7 | 1750.5 | 1724.9 |
| 47.5° | 1409.9 | 1421.2 | 1484.8 | 1583.3 | 1696.2 | 1850.1 | 1964.0 | 1976.3 | 1969.1 | 1959.9 | 1939.3 |
| 50° | 1473.5 | 1482.7 | 1547.4 | 1655.1 | 1784.4 | 1952.7 | 2115.8 | 2160.0 | 2166.1 | 2162.0 | 2156.9 |
| 52.5° | 1514.5 | 1523.8 | 1587.4 | 1702.3 | 1835.7 | 2028.6 | 2228.7 | 2315.9 | 2334.4 | 2333.4 | 2354.9 |
| 55° | 1515.6 | 1525.8 | 1591.5 | 1717.7 | 1864.4 | 2080.9 | 2333.4 | 2470.9 | 2493.4 | 2521.1 | 2567.3 |
| 57.5° | 1459.1 | 1469.4 | 1551.5 | 1697.2 | 1872.6 | 2122.0 | 2434.9 | 2677.1 | 2738.7 | 2793.1 | 2920.3 |
| 60° | 1302.1 | 1306.2 | 1396.5 | 1591.5 | 1833.7 | 2112.8 | 2511.9 | 2854.6 | 2941.8 | 3059.8 | 3265.1 |
| 62.5° | 1061.0 | 1069.2 | 1124.6 | 1314.4 | 1652.0 | 2031.7 | 2542.7 | 3052.7 | 3196.3 | 3368.7 | 3697.1 |
| 63° | 994.3 | 1001.5 | 1052.8 | 1240.6 | 1590.5 | 2006.0 | 2541.7 | 3084.5 | 3242.5 | 3420.0 | 3774.0 |
| 65° | 767.5 | 769.6 | 807.5 | 949.1 | 1305.2 | 1819.3 | 2486.3 | 3039.3 | 3239.4 | 3446.7 | 3818.1 |
| 67.5° | 618.7 | 625.9 | 663.9 | 763.4 | 1031.2 | 1527.9 | 2237.9 | 2633.0 | 2769.5 | 2973.7 | 3415.9 |
| 70° | 484.3 | 496.6 | 532.5 | 645.4 | 879.4 | 1230.3 | 1882.9 | 2197.9 | 2282.1 | 2379.5 | 2755.1 |
| 72.5° | 320.1 | 323.2 | 329.4 | 392.0 | 613.6 | 957.4 | 1566.9 | 1781.3 | 1814.2 | 1883.9 | 2067.6 |
| 75° | 150.8 | 162.1 | 171.4 | 203.2 | 296.5 | 627.0 | 1135.9 | 1265.2 | 1304.2 | 1377.0 | 1443.7 |
| 77.5° | 65.7 | 64.6 | 68.7 | 93.4 | 156.0 | 279.1 | 707.0 | 934.8 | 948.1 | 931.7 | 903.0 |
| 80° | 20.5 | 21.5 | 22.6 | 24.6 | 49.3 | 133.4 | 305.8 | 628.0 | 693.6 | 737.8 | 725.5 |
| 82.5° | 2.1 | 1.0 | 3.1 | 6.2 | 10.3 | 19.5 | 114.9 | 294.5 | 370.4 | 454.6 | 562.3 |
| 85° | 0.0 | 0.0 | 1.0 | 1.0 | 2.1 | 4.1 | 7.2 | 30.8 | 51.3 | 59.5 | 118.0 |
| 87.5° | 0.0 | 0.0 | 1.0 | 1.0 | 2.1 | 3.1 | 3.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| 90° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 92.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 95° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 97.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 100° | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| 102.5° | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 |
| 105° | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| 107.5° | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 |



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CATALOG NUMBER: ENT-E02-LED-E1-BL2-7050-ULG

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110° | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 |
| 112.5° | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 |
| 115° | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 |
| 117.5° | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 |
| 120° | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 |
| 122.5° | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 |
| 125° | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 |
| 127.5° | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 |
| 130° | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 |
| 132.5° | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 |
| 135° | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 |
| 137.5° | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 |
| 140° | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 |
| 142.5° | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 |
| 145° | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 |
| 147.5° | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 |
| 150° | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 |
| 152.5° | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 |
| 155° | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 |
| 157.5° | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 |
| 160° | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 |
| 162.5° | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 |
| 165° | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 |
| 167.5° | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 |
| 170° | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 |
| 172.5° | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 |
| 175° | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 |
| 177.5° | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 |
| 180° | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 |



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CATALOG NUMBER: ENT-E02-LED-E1-BL2-7050-ULG

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 75° | 80° | 85° | 90° | 95° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 595.1 | 595.1 | 595.1 | 595.1 | 595.1 | 595.1 | 595.1 | 595.1 | 595.1 | 595.1 | 595.1 |
| 2.5° | 611.6 | 611.6 | 609.5 | 610.5 | 609.5 | 609.5 | 607.5 | 605.4 | 604.4 | 599.2 | 596.2 |
| 5° | 633.1 | 633.1 | 632.1 | 630.0 | 630.0 | 629.0 | 623.9 | 618.7 | 615.7 | 609.5 | 603.4 |
| 7.5° | 657.7 | 656.7 | 654.7 | 652.6 | 652.6 | 651.6 | 644.4 | 639.3 | 633.1 | 623.9 | 616.7 |
| 10° | 686.5 | 685.4 | 683.4 | 680.3 | 680.3 | 679.3 | 672.1 | 663.9 | 658.8 | 647.5 | 638.2 |
| 12.5° | 717.2 | 714.2 | 713.1 | 711.1 | 709.0 | 709.0 | 702.9 | 694.7 | 690.6 | 678.3 | 669.0 |
| 15° | 742.9 | 740.8 | 739.8 | 738.8 | 737.8 | 735.7 | 730.6 | 723.4 | 720.3 | 710.1 | 702.9 |
| 17.5° | 767.5 | 767.5 | 768.6 | 766.5 | 765.5 | 763.4 | 760.3 | 758.3 | 755.2 | 746.0 | 741.9 |
| 20° | 796.3 | 796.3 | 798.3 | 797.3 | 796.3 | 799.3 | 798.3 | 797.3 | 797.3 | 789.1 | 786.0 |
| 22.5° | 830.1 | 829.1 | 832.2 | 831.1 | 832.2 | 835.2 | 839.4 | 837.3 | 841.4 | 836.3 | 834.2 |
| 25° | 869.1 | 868.1 | 871.2 | 873.2 | 875.3 | 877.3 | 885.5 | 887.6 | 892.7 | 891.7 | 887.6 |
| 27.5° | 913.2 | 914.3 | 915.3 | 920.4 | 923.5 | 925.5 | 936.8 | 943.0 | 953.3 | 949.1 | 953.3 |
| 30° | 964.5 | 969.7 | 973.8 | 978.9 | 979.9 | 982.0 | 1000.5 | 1006.6 | 1011.7 | 1014.8 | 1021.0 |
| 32.5° | 1035.3 | 1038.4 | 1039.4 | 1045.6 | 1047.7 | 1050.7 | 1070.2 | 1078.4 | 1085.6 | 1086.6 | 1097.9 |
| 35° | 1121.5 | 1123.6 | 1126.7 | 1129.7 | 1133.8 | 1131.8 | 1154.4 | 1166.7 | 1175.9 | 1176.9 | 1189.3 |
| 37.5° | 1235.4 | 1228.2 | 1231.3 | 1227.2 | 1221.1 | 1221.1 | 1228.2 | 1240.6 | 1250.8 | 1259.0 | 1271.3 |
| 40° | 1371.9 | 1366.8 | 1365.7 | 1356.5 | 1346.3 | 1337.0 | 1332.9 | 1340.1 | 1348.3 | 1355.5 | 1370.9 |
| 42.5° | 1527.9 | 1522.7 | 1505.3 | 1499.1 | 1481.7 | 1471.4 | 1443.7 | 1446.8 | 1461.2 | 1465.3 | 1474.5 |
| 45° | 1710.5 | 1692.0 | 1685.9 | 1647.9 | 1640.7 | 1626.4 | 1574.0 | 1569.9 | 1582.3 | 1583.3 | 1577.1 |
| 47.5° | 1918.8 | 1905.5 | 1891.1 | 1864.4 | 1836.7 | 1813.1 | 1733.1 | 1691.0 | 1704.4 | 1703.3 | 1673.6 |
| 50° | 2145.6 | 2143.5 | 2122.0 | 2104.5 | 2079.9 | 2046.1 | 1903.4 | 1826.5 | 1836.7 | 1827.5 | 1773.1 |
| 52.5° | 2362.1 | 2355.9 | 2354.9 | 2341.6 | 2332.3 | 2321.1 | 2147.6 | 2015.3 | 1991.7 | 1972.2 | 1902.4 |
| 55° | 2589.9 | 2605.3 | 2595.0 | 2616.6 | 2633.0 | 2630.9 | 2559.1 | 2365.2 | 2245.1 | 2229.7 | 2123.0 |
| 57.5° | 2969.5 | 3006.5 | 3055.7 | 3057.8 | 3101.9 | 3165.5 | 3294.8 | 3155.3 | 2854.6 | 2795.1 | 2652.5 |
| 60° | 3404.6 | 3500.0 | 3623.2 | 3683.7 | 3778.1 | 3876.6 | 4200.9 | 4222.4 | 3801.7 | 3571.9 | 3310.2 |
| 62.5° | 3841.7 | 3966.9 | 4112.6 | 4207.0 | 4324.0 | 4401.0 | 4743.7 | 4825.8 | 4442.0 | 4018.2 | 3587.3 |
| 63° | 3934.1 | 4062.4 | 4188.6 | 4280.9 | 4379.4 | 4450.2 | 4758.1 | 4844.2 | 4476.9 | 4019.3 | 3569.8 |
| 65° | 3982.3 | 4102.4 | 4200.9 | 4283.0 | 4348.6 | 4396.9 | 4640.0 | 4733.4 | 4430.7 | 3870.5 | 3373.8 |
| 67.5° | 3616.0 | 3808.9 | 3933.1 | 4032.6 | 4099.3 | 4166.0 | 4389.7 | 4448.2 | 4233.7 | 3581.1 | 3076.3 |
| 70° | 2993.1 | 3215.8 | 3411.8 | 3566.7 | 3681.7 | 3783.3 | 4018.2 | 3978.2 | 3793.5 | 3112.2 | 2609.4 |
| 72.5° | 2202.0 | 2396.0 | 2586.8 | 2762.3 | 2912.1 | 3041.4 | 3196.3 | 2834.1 | 2553.0 | 2069.7 | 1805.9 |
| 75° | 1480.7 | 1522.7 | 1610.0 | 1697.2 | 1751.6 | 1788.5 | 1693.1 | 1349.3 | 1095.9 | 983.0 | 859.9 |
| 77.5° | 874.2 | 845.5 | 848.6 | 827.0 | 812.7 | 809.6 | 679.3 | 377.6 | 199.1 | 203.2 | 213.4 |
| 80° | 697.8 | 665.9 | 632.1 | 594.1 | 569.5 | 542.8 | 442.3 | 242.2 | 86.2 | 69.8 | 72.9 |
| 82.5° | 564.4 | 556.1 | 537.7 | 498.7 | 459.7 | 413.5 | 316.0 | 232.9 | 49.3 | 39.0 | 42.1 |
| 85° | 109.8 | 123.1 | 110.8 | 121.1 | 90.3 | 85.2 | 50.3 | 54.4 | 19.5 | 17.4 | 21.5 |
| 87.5° | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 8.2 |
| 90° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 92.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 95° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 97.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 100° | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| 102.5° | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 |
| 105° | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| 107.5° | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 |



REPORT NUMBER: P159999

CATALOG NUMBER: ENT-E02-LED-E1-BL2-7050-ULG

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 75° | 80° | 85° | 90° | 95° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110° | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 |
| 112.5° | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 |
| 115° | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 |
| 117.5° | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 |
| 120° | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 |
| 122.5° | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 |
| 125° | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 |
| 127.5° | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 |
| 130° | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 |
| 132.5° | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 |
| 135° | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 |
| 137.5° | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 |
| 140° | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 |
| 142.5° | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 |
| 145° | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 |
| 147.5° | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 |
| 150° | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 |
| 152.5° | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 |
| 155° | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 |
| 157.5° | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 |
| 160° | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 |
| 162.5° | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 |
| 165° | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 |
| 167.5° | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 |
| 170° | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 |
| 172.5° | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 |
| 175° | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 |
| 177.5° | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 |
| 180° | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 |



REPORT NUMBER: P159999

CATALOG NUMBER: ENT-E02-LED-E1-BL2-7050-ULG

CANDELA DISTRIBUTION (continued):

| | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 0° | 595.1 | 595.1 | 595.1 | 595.1 | 595.1 | 595.1 | 595.1 | 595.1 | 595.1 |
| 2.5° | 591.0 | 586.9 | 583.9 | 579.7 | 577.7 | 574.6 | 573.6 | 570.5 | 571.5 |
| 5° | 593.1 | 585.9 | 579.7 | 573.6 | 569.5 | 567.4 | 565.4 | 563.3 | 563.3 |
| 7.5° | 603.4 | 594.1 | 586.9 | 579.7 | 576.7 | 572.6 | 571.5 | 568.5 | 568.5 |
| 10° | 624.9 | 614.6 | 605.4 | 597.2 | 593.1 | 588.0 | 585.9 | 582.8 | 582.8 |
| 12.5° | 656.7 | 647.5 | 637.2 | 624.9 | 616.7 | 610.5 | 605.4 | 603.4 | 603.4 |
| 15° | 692.6 | 685.4 | 677.2 | 660.8 | 647.5 | 636.2 | 625.9 | 621.8 | 620.8 |
| 17.5° | 735.7 | 729.6 | 721.4 | 702.9 | 681.3 | 657.7 | 640.3 | 632.1 | 631.1 |
| 20° | 788.0 | 781.9 | 769.6 | 743.9 | 710.1 | 673.1 | 645.4 | 633.1 | 632.1 |
| 22.5° | 841.4 | 841.4 | 820.9 | 778.8 | 728.5 | 679.3 | 642.3 | 625.9 | 622.8 |
| 25° | 899.9 | 903.0 | 872.2 | 806.5 | 738.8 | 676.2 | 629.0 | 608.5 | 604.4 |
| 27.5° | 970.7 | 967.6 | 916.3 | 828.1 | 739.8 | 663.9 | 607.5 | 582.8 | 578.7 |
| 30° | 1048.7 | 1028.2 | 952.2 | 840.4 | 732.6 | 641.3 | 578.7 | 551.0 | 547.9 |
| 32.5° | 1126.7 | 1082.5 | 978.9 | 842.4 | 712.1 | 608.5 | 540.8 | 512.0 | 507.9 |
| 35° | 1209.8 | 1130.8 | 995.3 | 831.1 | 678.3 | 564.4 | 493.6 | 465.9 | 461.7 |
| 37.5° | 1279.6 | 1167.7 | 1000.5 | 801.4 | 627.0 | 513.1 | 450.5 | 421.7 | 414.5 |
| 40° | 1343.2 | 1194.4 | 991.2 | 753.2 | 569.5 | 462.8 | 405.3 | 380.7 | 378.6 |
| 42.5° | 1401.7 | 1206.7 | 958.4 | 690.6 | 512.0 | 419.7 | 367.3 | 343.7 | 341.7 |
| 45° | 1446.8 | 1198.5 | 903.0 | 621.8 | 464.8 | 382.7 | 333.5 | 311.9 | 307.8 |
| 47.5° | 1475.5 | 1168.7 | 827.0 | 564.4 | 425.8 | 344.8 | 296.5 | 274.0 | 269.9 |
| 50° | 1498.1 | 1124.6 | 750.1 | 520.2 | 387.9 | 305.8 | 258.6 | 238.1 | 235.0 |
| 52.5° | 1527.9 | 1068.2 | 683.4 | 480.2 | 343.7 | 261.7 | 219.6 | 200.1 | 197.0 |
| 55° | 1593.5 | 1019.9 | 636.2 | 436.1 | 296.5 | 215.5 | 180.6 | 168.3 | 164.2 |
| 57.5° | 1816.2 | 1036.4 | 606.4 | 382.7 | 242.2 | 173.4 | 149.8 | 142.6 | 141.6 |
| 60° | 2050.2 | 1106.1 | 592.1 | 321.2 | 187.8 | 140.6 | 127.2 | 125.2 | 124.2 |
| 62.5° | 2037.8 | 1043.5 | 532.5 | 252.4 | 144.7 | 115.9 | 109.8 | 110.8 | 110.8 |
| 63° | 1996.8 | 1005.6 | 513.1 | 237.0 | 137.5 | 112.9 | 106.7 | 106.7 | 106.7 |
| 65° | 1748.5 | 852.7 | 416.6 | 179.6 | 114.9 | 100.6 | 95.4 | 96.5 | 97.5 |
| 67.5° | 1443.7 | 615.7 | 274.0 | 125.2 | 103.6 | 91.3 | 85.2 | 83.1 | 83.1 |
| 70° | 1104.1 | 414.5 | 162.1 | 108.8 | 102.6 | 85.2 | 74.9 | 72.9 | 72.9 |
| 72.5° | 724.4 | 253.4 | 109.8 | 108.8 | 101.6 | 81.1 | 69.8 | 65.7 | 65.7 |
| 75° | 332.5 | 125.2 | 91.3 | 104.7 | 96.5 | 74.9 | 61.6 | 56.4 | 55.4 |
| 77.5° | 129.3 | 79.0 | 82.1 | 88.2 | 74.9 | 61.6 | 55.4 | 51.3 | 50.3 |
| 80° | 74.9 | 63.6 | 71.8 | 63.6 | 54.4 | 47.2 | 47.2 | 44.1 | 43.1 |
| 82.5° | 54.4 | 54.4 | 55.4 | 46.2 | 41.0 | 39.0 | 39.0 | 35.9 | 34.9 |
| 85° | 39.0 | 40.0 | 46.2 | 36.9 | 31.8 | 27.7 | 25.7 | 25.7 | 24.6 |
| 87.5° | 19.5 | 31.8 | 25.7 | 15.4 | 14.4 | 13.3 | 13.3 | 13.3 | 12.3 |
| 90° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 92.5° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 95° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 97.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 100° | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| 102.5° | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 |
| 105° | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| 107.5° | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 | 14.7 |



REPORT NUMBER: P159999

CATALOG NUMBER: ENT-E02-LED-E1-BL2-7050-ULG

CANDELA DISTRIBUTION (continued):

| | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110° | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 |
| 112.5° | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 |
| 115° | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 |
| 117.5° | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 |
| 120° | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 |
| 122.5° | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 |
| 125° | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 |
| 127.5° | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 |
| 130° | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 |
| 132.5° | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 |
| 135° | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 |
| 137.5° | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 |
| 140° | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 |
| 142.5° | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 |
| 145° | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 | 104.9 |
| 147.5° | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 | 110.1 |
| 150° | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 | 115.1 |
| 152.5° | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 |
| 155° | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 | 123.7 |
| 157.5° | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.0 |
| 160° | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 |
| 162.5° | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 | 133.5 |
| 165° | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 |
| 167.5° | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 | 137.1 |
| 170° | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 | 137.4 |
| 172.5° | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 | 138.6 |
| 175° | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 | 140.5 |
| 177.5° | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 | 141.1 |
| 180° | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 | 140.8 |

(END OF REPORT)