

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: P159998

Luminaire Tested: **ENT-E02-LED-E1-BL2-7030-ULG**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P159998
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-BL2-7030-ULG
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5317.2 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U3 - G1

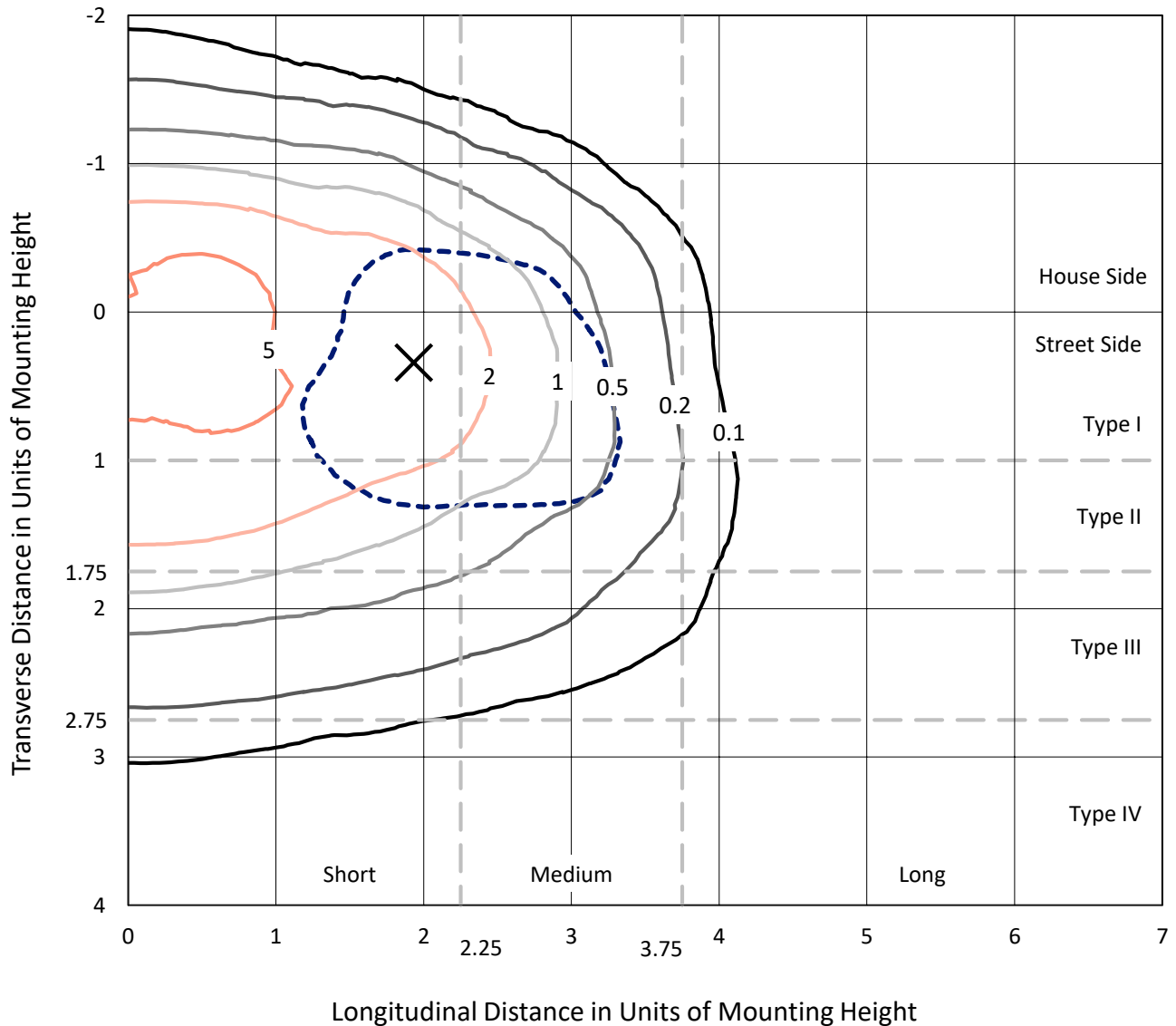
Input Watts (W): 54.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

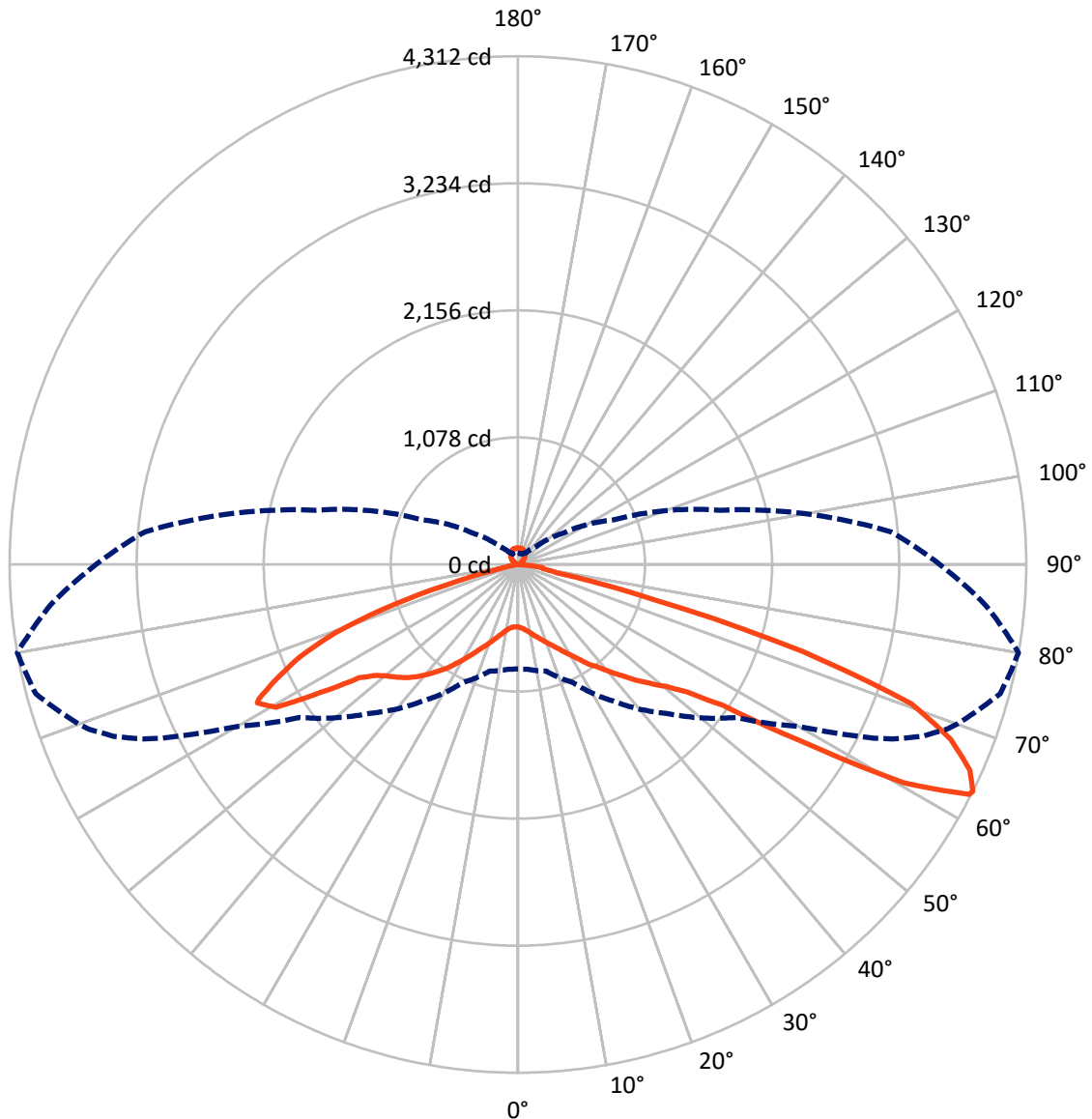
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.5 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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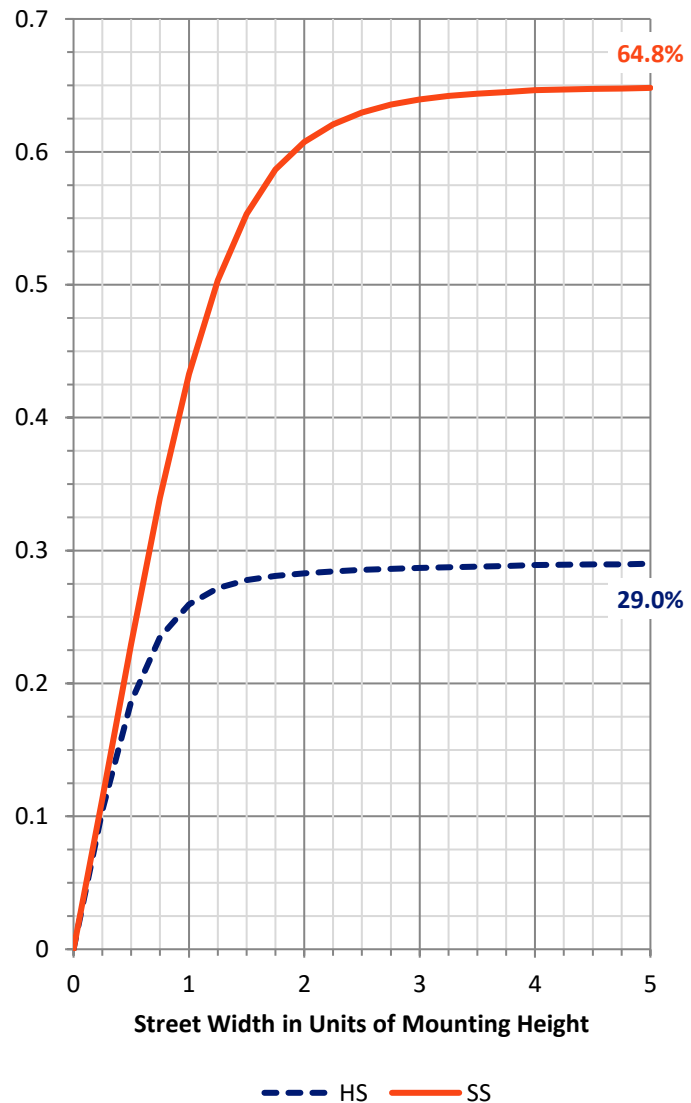
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1557.7 | 157.7 | 1715.4 |
| | % Fixture | 29.3 | 3.0 | 32.3 |
| Street Side | Lumens | 3444.0 | 157.7 | 3601.8 |
| | % Fixture | 64.8 | 3.0 | 67.7 |
| Total | Lumens | 5001.7 | 315.5 | 5317.2 |
| | % Fixture | 94.1 | 5.9 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 53.1 | 1.0 |
| 10°-20° | 182.1 | 3.4 |
| 20°-30° | 342.2 | 6.4 |
| 30°-40° | 543.1 | 10.2 |
| 40°-50° | 819.7 | 15.4 |
| 50°-60° | 1152.2 | 21.7 |
| 60°-70° | 1344.4 | 25.3 |
| 70°-80° | 519.7 | 9.8 |
| 80°-90° | 45.2 | 0.9 |
| 90°-100° | 1.3 | 0.0 |
| 100°-110° | 12.3 | 0.2 |
| 110°-120° | 25.2 | 0.5 |
| 120°-130° | 43.0 | 0.8 |
| 130°-140° | 60.0 | 1.1 |
| 140°-150° | 65.4 | 1.2 |
| 150°-160° | 56.9 | 1.1 |
| 160°-170° | 38.2 | 0.7 |
| 170°-180° | 13.3 | 0.2 |
| 0°-90° | 5001.7 | 94.1 |
| 0°-180° | 5317.2 | 100.0 |



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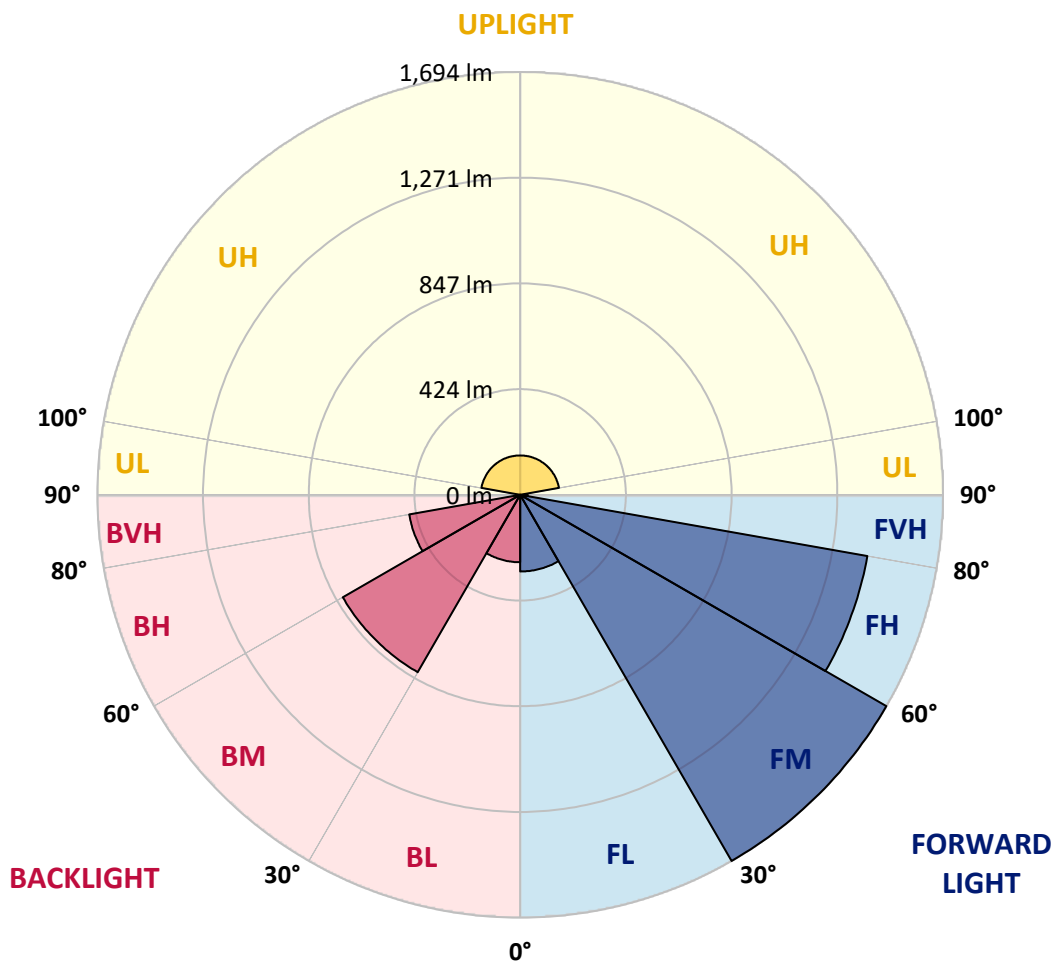
CATALOG NUMBER: ENT-E02-LED-E1-BL2-7030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|--------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 307.2 | 5.8 | | | |
| FM | (30°-60°) | 1694.2 | 31.9 | | | |
| FH | (60°-80°) | 1412.5 | 26.6 | | | G1/1800 |
| FVH | (80°-90°) | 30.1 | 0.6 | | | G1/100 |
| BL | (0°-30°) | 270.2 | 5.1 | B1/500 | | |
| BM | (30°-60°) | 820.8 | 15.4 | B1/1000 | | |
| BH | (60°-80°) | 451.6 | 8.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 15.1 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 1.3 | 0.0 | | U1/10 | |
| UH | (100°-180°) | 157.7 | 3.0 | | U3/500 | |

BUG Rating: B1-U3-G1

Type II Short





REPORT NUMBER: P159998

CATALOG NUMBER: ENT-E02-LED-E1-BL2-7030-ULG

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 529.7 | 529.7 | 529.7 | 529.7 | 529.7 | 529.7 | 529.7 | 529.7 | 529.7 | 529.7 | 529.7 |
| 2.5° | 556.2 | 554.4 | 555.3 | 554.4 | 554.4 | 552.6 | 547.1 | 547.1 | 546.2 | 547.1 | 545.3 |
| 5° | 586.4 | 585.5 | 584.5 | 582.7 | 582.7 | 579.1 | 569.9 | 568.1 | 569.0 | 567.2 | 563.5 |
| 7.5° | 620.2 | 619.3 | 617.4 | 613.8 | 611.9 | 606.5 | 593.7 | 591.9 | 590.9 | 589.1 | 586.4 |
| 10° | 654.0 | 653.0 | 650.3 | 645.7 | 641.2 | 633.0 | 620.2 | 615.6 | 614.7 | 613.8 | 611.0 |
| 12.5° | 688.7 | 685.9 | 686.8 | 678.6 | 671.3 | 661.3 | 646.7 | 642.1 | 641.2 | 640.3 | 639.3 |
| 15° | 727.0 | 726.1 | 724.3 | 713.3 | 699.6 | 685.9 | 671.3 | 665.8 | 662.2 | 663.1 | 662.2 |
| 17.5° | 763.6 | 762.6 | 756.3 | 740.7 | 722.5 | 706.9 | 688.7 | 685.0 | 685.0 | 684.1 | 684.1 |
| 20° | 790.0 | 789.1 | 782.7 | 763.6 | 739.8 | 722.5 | 707.8 | 707.8 | 706.9 | 707.8 | 708.8 |
| 22.5° | 801.9 | 801.9 | 793.7 | 772.7 | 747.1 | 734.3 | 729.8 | 732.5 | 733.4 | 734.3 | 736.2 |
| 25° | 806.5 | 806.5 | 798.3 | 773.6 | 749.9 | 751.7 | 757.2 | 761.7 | 763.6 | 763.6 | 770.0 |
| 27.5° | 814.7 | 815.6 | 804.7 | 778.2 | 759.0 | 776.3 | 790.0 | 796.4 | 799.2 | 801.0 | 809.2 |
| 30° | 839.4 | 838.5 | 829.3 | 801.0 | 786.4 | 811.1 | 835.7 | 842.1 | 848.5 | 848.5 | 857.6 |
| 32.5° | 875.9 | 875.0 | 869.5 | 847.6 | 841.2 | 872.2 | 894.2 | 907.9 | 907.0 | 908.8 | 915.2 |
| 35° | 924.3 | 925.2 | 928.9 | 923.4 | 928.9 | 959.9 | 984.6 | 990.1 | 991.0 | 991.9 | 992.8 |
| 37.5° | 979.1 | 980.0 | 1000.1 | 1017.5 | 1042.1 | 1087.8 | 1102.4 | 1105.2 | 1098.8 | 1098.8 | 1096.9 |
| 40° | 1020.2 | 1024.8 | 1069.5 | 1115.2 | 1167.3 | 1229.4 | 1251.3 | 1245.8 | 1241.2 | 1237.6 | 1226.6 |
| 42.5° | 1104.2 | 1107.0 | 1154.5 | 1220.2 | 1293.3 | 1379.2 | 1417.5 | 1399.3 | 1398.3 | 1381.9 | 1373.7 |
| 45° | 1188.3 | 1195.6 | 1246.7 | 1320.7 | 1408.4 | 1527.1 | 1583.7 | 1568.2 | 1565.5 | 1558.2 | 1535.3 |
| 47.5° | 1254.9 | 1265.0 | 1321.6 | 1409.3 | 1509.8 | 1646.8 | 1748.2 | 1759.1 | 1752.7 | 1744.5 | 1726.2 |
| 50° | 1311.6 | 1319.8 | 1377.3 | 1473.2 | 1588.3 | 1738.1 | 1883.3 | 1922.6 | 1928.1 | 1924.4 | 1919.9 |
| 52.5° | 1348.1 | 1356.3 | 1413.0 | 1515.2 | 1634.0 | 1805.7 | 1983.8 | 2061.4 | 2077.9 | 2077.0 | 2096.1 |
| 55° | 1349.0 | 1358.2 | 1416.6 | 1528.9 | 1659.6 | 1852.3 | 2077.0 | 2199.3 | 2219.4 | 2244.1 | 2285.2 |
| 57.5° | 1298.8 | 1307.9 | 1381.0 | 1510.7 | 1666.9 | 1888.8 | 2167.4 | 2382.9 | 2437.7 | 2486.1 | 2599.4 |
| 60° | 1159.0 | 1162.7 | 1243.1 | 1416.6 | 1632.2 | 1880.6 | 2235.9 | 2540.9 | 2618.6 | 2723.6 | 2906.3 |
| 62.5° | 944.4 | 951.7 | 1001.0 | 1170.0 | 1470.5 | 1808.4 | 2263.3 | 2717.2 | 2845.1 | 2998.5 | 3290.8 |
| 63° | 885.0 | 891.4 | 937.1 | 1104.2 | 1415.7 | 1785.6 | 2262.4 | 2745.5 | 2886.2 | 3044.2 | 3359.3 |
| 65° | 683.2 | 685.0 | 718.8 | 844.8 | 1161.8 | 1619.4 | 2213.0 | 2705.3 | 2883.4 | 3067.9 | 3398.6 |
| 67.5° | 550.8 | 557.1 | 590.9 | 679.5 | 917.9 | 1360.0 | 1992.0 | 2343.7 | 2465.1 | 2646.9 | 3040.5 |
| 70° | 431.1 | 442.1 | 474.0 | 574.5 | 782.7 | 1095.1 | 1676.0 | 1956.4 | 2031.3 | 2118.1 | 2452.3 |
| 72.5° | 285.0 | 287.7 | 293.2 | 348.9 | 546.2 | 852.2 | 1394.7 | 1585.6 | 1614.8 | 1676.9 | 1840.4 |
| 75° | 134.3 | 144.3 | 152.5 | 180.8 | 264.0 | 558.1 | 1011.1 | 1126.2 | 1160.9 | 1225.7 | 1285.1 |
| 77.5° | 58.5 | 57.5 | 61.2 | 83.1 | 138.8 | 248.4 | 629.3 | 832.1 | 843.9 | 829.3 | 803.7 |
| 80° | 18.3 | 19.2 | 20.1 | 21.9 | 43.8 | 118.7 | 272.2 | 559.0 | 617.4 | 656.7 | 645.7 |
| 82.5° | 1.8 | 0.9 | 2.7 | 5.5 | 9.1 | 17.4 | 102.3 | 262.1 | 329.7 | 404.6 | 500.5 |
| 85° | 0.0 | 0.0 | 0.9 | 0.9 | 1.8 | 3.7 | 6.4 | 27.4 | 45.7 | 53.0 | 105.0 |
| 87.5° | 0.0 | 0.0 | 0.9 | 0.9 | 1.8 | 2.7 | 2.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| 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-BL2-7030-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-BL2-7030-ULG

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 75° | 80° | 85° | 90° | 95° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 529.7 | 529.7 | 529.7 | 529.7 | 529.7 | 529.7 | 529.7 | 529.7 | 529.7 | 529.7 | 529.7 |
| 2.5° | 544.4 | 544.4 | 542.5 | 543.4 | 542.5 | 542.5 | 540.7 | 538.9 | 538.0 | 533.4 | 530.7 |
| 5° | 563.5 | 563.5 | 562.6 | 560.8 | 560.8 | 559.9 | 555.3 | 550.8 | 548.0 | 542.5 | 537.0 |
| 7.5° | 585.5 | 584.5 | 582.7 | 580.9 | 580.9 | 580.0 | 573.6 | 569.0 | 563.5 | 555.3 | 548.9 |
| 10° | 611.0 | 610.1 | 608.3 | 605.6 | 605.6 | 604.6 | 598.2 | 590.9 | 586.4 | 576.3 | 568.1 |
| 12.5° | 638.4 | 635.7 | 634.8 | 633.0 | 631.1 | 631.1 | 625.6 | 618.3 | 614.7 | 603.7 | 595.5 |
| 15° | 661.3 | 659.4 | 658.5 | 657.6 | 656.7 | 654.9 | 650.3 | 643.9 | 641.2 | 632.0 | 625.6 |
| 17.5° | 683.2 | 683.2 | 684.1 | 682.3 | 681.4 | 679.5 | 676.8 | 675.0 | 672.2 | 664.0 | 660.4 |
| 20° | 708.8 | 708.8 | 710.6 | 709.7 | 708.8 | 711.5 | 710.6 | 709.7 | 709.7 | 702.4 | 699.6 |
| 22.5° | 738.9 | 738.0 | 740.7 | 739.8 | 740.7 | 743.5 | 747.1 | 745.3 | 748.9 | 744.4 | 742.6 |
| 25° | 773.6 | 772.7 | 775.4 | 777.3 | 779.1 | 780.9 | 788.2 | 790.0 | 794.6 | 793.7 | 790.0 |
| 27.5° | 812.9 | 813.8 | 814.7 | 819.3 | 822.0 | 823.8 | 833.9 | 839.4 | 848.5 | 844.8 | 848.5 |
| 30° | 858.5 | 863.1 | 866.8 | 871.3 | 872.2 | 874.1 | 890.5 | 896.0 | 900.6 | 903.3 | 908.8 |
| 32.5° | 921.6 | 924.3 | 925.2 | 930.7 | 932.5 | 935.3 | 952.6 | 959.9 | 966.3 | 967.2 | 977.3 |
| 35° | 998.3 | 1000.1 | 1002.9 | 1005.6 | 1009.3 | 1007.4 | 1027.5 | 1038.5 | 1046.7 | 1047.6 | 1058.6 |
| 37.5° | 1099.7 | 1093.3 | 1096.0 | 1092.4 | 1086.9 | 1086.9 | 1093.3 | 1104.2 | 1113.4 | 1120.7 | 1131.6 |
| 40° | 1221.1 | 1216.6 | 1215.7 | 1207.4 | 1198.3 | 1190.1 | 1186.4 | 1192.8 | 1200.1 | 1206.5 | 1220.2 |
| 42.5° | 1360.0 | 1355.4 | 1339.9 | 1334.4 | 1318.9 | 1309.7 | 1285.1 | 1287.8 | 1300.6 | 1304.3 | 1312.5 |
| 45° | 1522.6 | 1506.1 | 1500.6 | 1466.8 | 1460.4 | 1447.7 | 1401.1 | 1397.4 | 1408.4 | 1409.3 | 1403.8 |
| 47.5° | 1708.0 | 1696.1 | 1683.3 | 1659.6 | 1634.9 | 1613.9 | 1542.6 | 1505.2 | 1517.1 | 1516.2 | 1489.7 |
| 50° | 1909.8 | 1908.0 | 1888.8 | 1873.3 | 1851.4 | 1821.2 | 1694.3 | 1625.8 | 1634.9 | 1626.7 | 1578.3 |
| 52.5° | 2102.5 | 2097.1 | 2096.1 | 2084.3 | 2076.0 | 2066.0 | 1911.6 | 1793.8 | 1772.8 | 1755.5 | 1693.4 |
| 55° | 2305.3 | 2319.0 | 2309.9 | 2329.0 | 2343.7 | 2341.8 | 2277.9 | 2105.3 | 1998.4 | 1984.7 | 1889.7 |
| 57.5° | 2643.2 | 2676.1 | 2720.0 | 2721.8 | 2761.1 | 2817.7 | 2932.8 | 2808.6 | 2540.9 | 2488.0 | 2361.0 |
| 60° | 3030.5 | 3115.4 | 3225.0 | 3278.9 | 3363.0 | 3450.6 | 3739.3 | 3758.4 | 3384.0 | 3179.4 | 2946.5 |
| 62.5° | 3419.6 | 3531.0 | 3660.7 | 3744.7 | 3848.9 | 3917.4 | 4222.4 | 4295.5 | 3953.9 | 3576.7 | 3193.1 |
| 63° | 3501.8 | 3616.0 | 3728.3 | 3810.5 | 3898.2 | 3961.2 | 4235.2 | 4311.9 | 3984.9 | 3577.6 | 3177.5 |
| 65° | 3544.7 | 3651.6 | 3739.3 | 3812.3 | 3870.8 | 3913.7 | 4130.2 | 4213.3 | 3943.8 | 3445.2 | 3003.1 |
| 67.5° | 3218.6 | 3390.4 | 3500.9 | 3589.5 | 3648.8 | 3708.2 | 3907.3 | 3959.4 | 3768.5 | 3187.6 | 2738.2 |
| 70° | 2664.2 | 2862.4 | 3036.9 | 3174.8 | 3277.1 | 3367.5 | 3576.7 | 3541.1 | 3376.7 | 2770.2 | 2322.6 |
| 72.5° | 1960.0 | 2132.7 | 2302.6 | 2458.7 | 2592.1 | 2707.2 | 2845.1 | 2522.7 | 2272.4 | 1842.2 | 1607.5 |
| 75° | 1318.0 | 1355.4 | 1433.0 | 1510.7 | 1559.1 | 1592.0 | 1507.0 | 1201.1 | 975.5 | 875.0 | 765.4 |
| 77.5° | 778.2 | 752.6 | 755.3 | 736.2 | 723.4 | 720.6 | 604.6 | 336.1 | 177.2 | 180.8 | 190.0 |
| 80° | 621.1 | 592.8 | 562.6 | 528.8 | 506.9 | 483.2 | 393.7 | 215.6 | 76.7 | 62.1 | 64.8 |
| 82.5° | 502.3 | 495.0 | 478.6 | 443.9 | 409.2 | 368.1 | 281.3 | 207.3 | 43.8 | 34.7 | 37.4 |
| 85° | 97.7 | 109.6 | 98.6 | 107.8 | 80.4 | 75.8 | 44.8 | 48.4 | 17.4 | 15.5 | 19.2 |
| 87.5° | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 7.3 |
| 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: P159998

CATALOG NUMBER: ENT-E02-LED-E1-BL2-7030-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: P159998

CATALOG NUMBER: ENT-E02-LED-E1-BL2-7030-ULG

CANDELA DISTRIBUTION (continued):

| | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 529.7 | 529.7 | 529.7 | 529.7 | 529.7 | 529.7 | 529.7 | 529.7 | 529.7 |
| 2.5° | 526.1 | 522.4 | 519.7 | 516.0 | 514.2 | 511.5 | 510.6 | 507.8 | 508.7 |
| 5° | 527.9 | 521.5 | 516.0 | 510.6 | 506.9 | 505.1 | 503.3 | 501.4 | 501.4 |
| 7.5° | 537.0 | 528.8 | 522.4 | 516.0 | 513.3 | 509.6 | 508.7 | 506.0 | 506.0 |
| 10° | 556.2 | 547.1 | 538.9 | 531.6 | 527.9 | 523.3 | 521.5 | 518.8 | 518.8 |
| 12.5° | 584.5 | 576.3 | 567.2 | 556.2 | 548.9 | 543.4 | 538.9 | 537.0 | 537.0 |
| 15° | 616.5 | 610.1 | 602.8 | 588.2 | 576.3 | 566.3 | 557.1 | 553.5 | 552.6 |
| 17.5° | 654.9 | 649.4 | 642.1 | 625.6 | 606.5 | 585.5 | 569.9 | 562.6 | 561.7 |
| 20° | 701.5 | 696.0 | 685.0 | 662.2 | 632.0 | 599.2 | 574.5 | 563.5 | 562.6 |
| 22.5° | 748.9 | 748.9 | 730.7 | 693.2 | 648.5 | 604.6 | 571.8 | 557.1 | 554.4 |
| 25° | 801.0 | 803.7 | 776.3 | 717.9 | 657.6 | 601.9 | 559.9 | 541.6 | 538.0 |
| 27.5° | 864.0 | 861.3 | 815.6 | 737.1 | 658.5 | 590.9 | 540.7 | 518.8 | 515.1 |
| 30° | 933.4 | 915.2 | 847.6 | 748.0 | 652.1 | 570.8 | 515.1 | 490.5 | 487.7 |
| 32.5° | 1002.9 | 963.6 | 871.3 | 749.9 | 633.9 | 541.6 | 481.3 | 455.8 | 452.1 |
| 35° | 1076.8 | 1006.5 | 885.9 | 739.8 | 603.7 | 502.3 | 439.3 | 414.7 | 411.0 |
| 37.5° | 1138.9 | 1039.4 | 890.5 | 713.3 | 558.1 | 456.7 | 401.0 | 375.4 | 369.0 |
| 40° | 1195.6 | 1063.1 | 882.3 | 670.4 | 506.9 | 411.9 | 360.8 | 338.9 | 337.0 |
| 42.5° | 1247.6 | 1074.1 | 853.1 | 614.7 | 455.8 | 373.6 | 327.0 | 306.0 | 304.1 |
| 45° | 1287.8 | 1066.8 | 803.7 | 553.5 | 413.7 | 340.7 | 296.8 | 277.7 | 274.0 |
| 47.5° | 1313.4 | 1040.3 | 736.2 | 502.3 | 379.0 | 306.9 | 264.0 | 243.9 | 240.2 |
| 50° | 1333.5 | 1001.0 | 667.7 | 463.1 | 345.2 | 272.2 | 230.2 | 211.9 | 209.2 |
| 52.5° | 1360.0 | 950.8 | 608.3 | 427.4 | 306.0 | 232.9 | 195.5 | 178.1 | 175.4 |
| 55° | 1418.4 | 907.9 | 566.3 | 388.2 | 264.0 | 191.8 | 160.7 | 149.8 | 146.1 |
| 57.5° | 1616.6 | 922.5 | 539.8 | 340.7 | 215.6 | 154.4 | 133.3 | 127.0 | 126.0 |
| 60° | 1824.9 | 984.6 | 527.0 | 285.9 | 167.1 | 125.1 | 113.3 | 111.4 | 110.5 |
| 62.5° | 1813.9 | 928.9 | 474.0 | 224.7 | 128.8 | 103.2 | 97.7 | 98.6 | 98.6 |
| 63° | 1777.4 | 895.1 | 456.7 | 211.0 | 122.4 | 100.5 | 95.0 | 95.0 | 95.0 |
| 65° | 1556.3 | 759.0 | 370.8 | 159.8 | 102.3 | 89.5 | 84.9 | 85.9 | 86.8 |
| 67.5° | 1285.1 | 548.0 | 243.9 | 111.4 | 92.2 | 81.3 | 75.8 | 74.0 | 74.0 |
| 70° | 982.8 | 369.0 | 144.3 | 96.8 | 91.3 | 75.8 | 66.7 | 64.8 | 64.8 |
| 72.5° | 644.8 | 225.6 | 97.7 | 96.8 | 90.4 | 72.2 | 62.1 | 58.5 | 58.5 |
| 75° | 295.9 | 111.4 | 81.3 | 93.2 | 85.9 | 66.7 | 54.8 | 50.2 | 49.3 |
| 77.5° | 115.1 | 70.3 | 73.1 | 78.5 | 66.7 | 54.8 | 49.3 | 45.7 | 44.8 |
| 80° | 66.7 | 56.6 | 63.9 | 56.6 | 48.4 | 42.0 | 42.0 | 39.3 | 38.4 |
| 82.5° | 48.4 | 48.4 | 49.3 | 41.1 | 36.5 | 34.7 | 34.7 | 32.0 | 31.1 |
| 85° | 34.7 | 35.6 | 41.1 | 32.9 | 28.3 | 24.7 | 22.8 | 22.8 | 21.9 |
| 87.5° | 17.4 | 28.3 | 22.8 | 13.7 | 12.8 | 11.9 | 11.9 | 11.9 | 11.0 |
| 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: P159998

CATALOG NUMBER: ENT-E02-LED-E1-BL2-7030-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)