

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: P160007

Luminaire Tested: **ENT-E02-LED-E1-BL3-ULG**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P160007
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-BL3-ULG
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5720.3 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U3 - G2

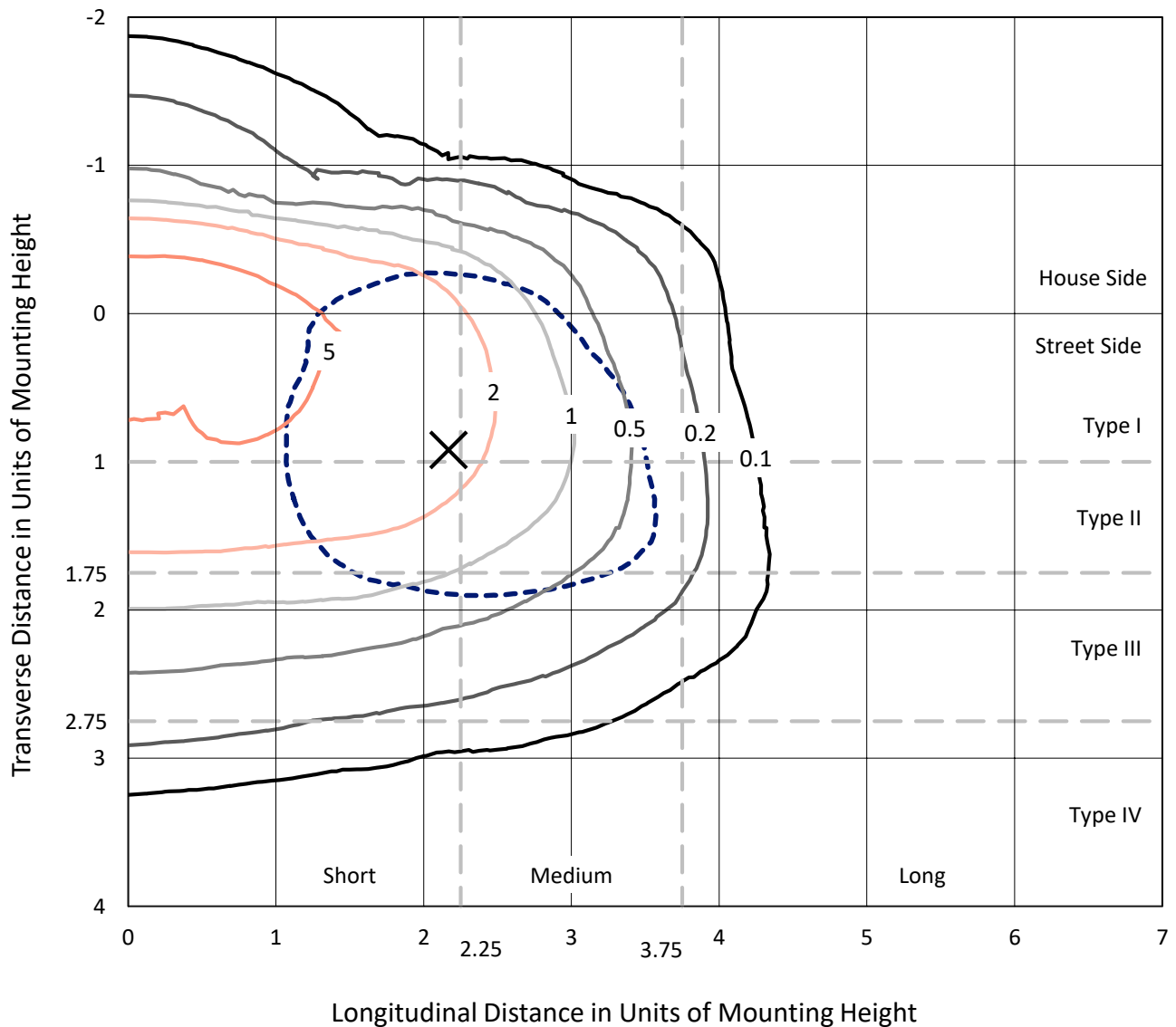
Input Watts (W): 54.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

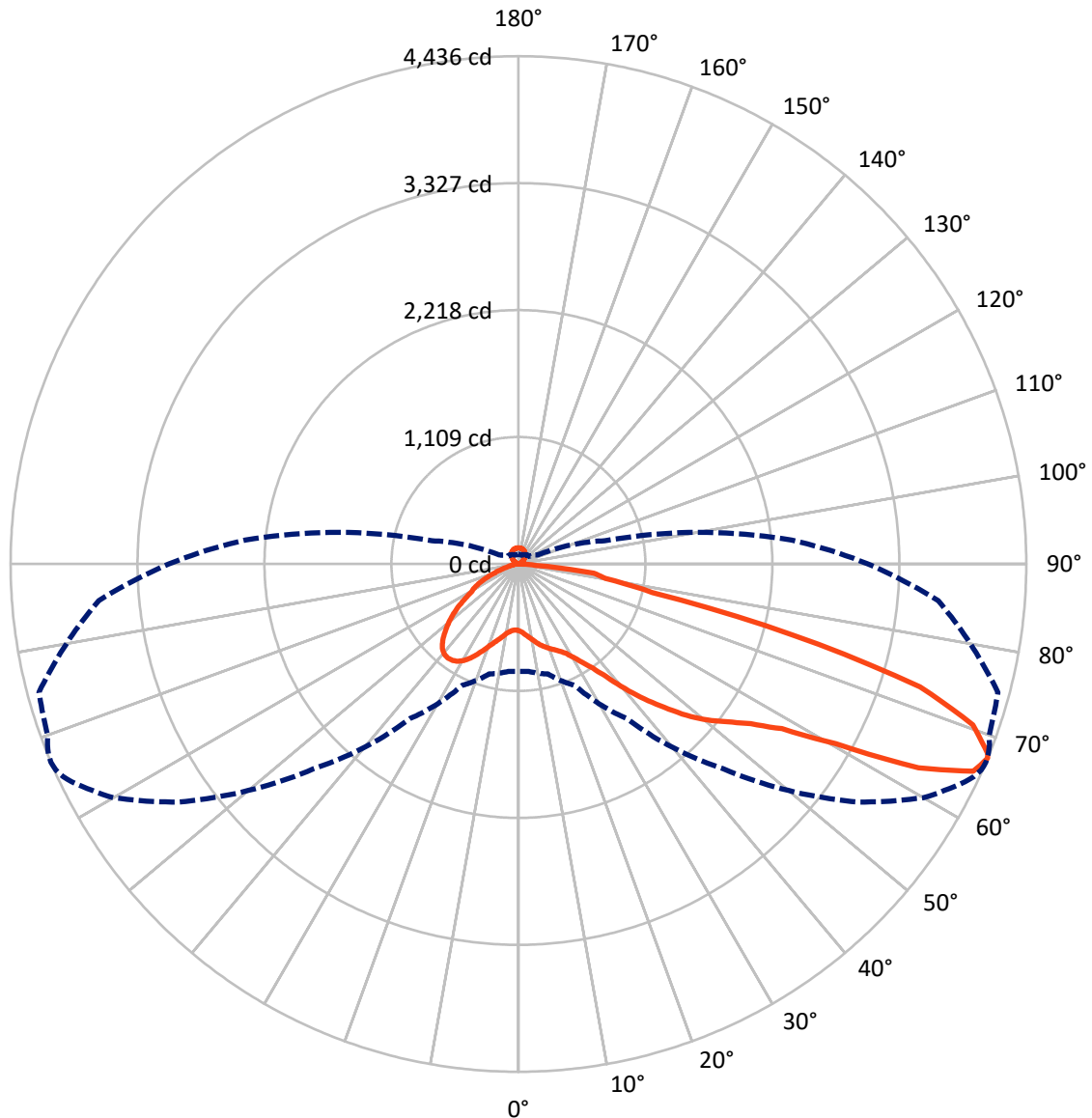
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 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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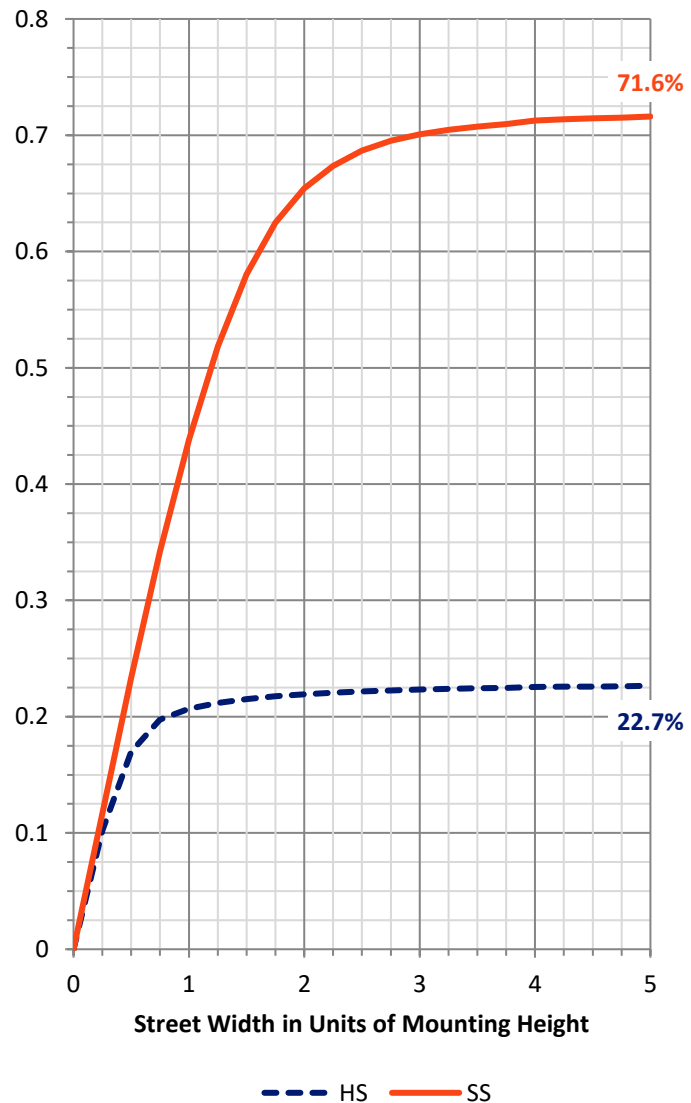
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1312.3 | 157.7 | 1470.0 |
| | % Fixture | 22.9 | 2.8 | 25.7 |
| Street Side | Lumens | 4092.5 | 157.7 | 4250.3 |
| | % Fixture | 71.5 | 2.8 | 74.3 |
| Total | Lumens | 5404.8 | 315.5 | 5720.3 |
| | % Fixture | 94.5 | 5.5 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.7 | 1.0 |
| 10°-20° | 202.9 | 3.5 |
| 20°-30° | 367.8 | 6.4 |
| 30°-40° | 537.7 | 9.4 |
| 40°-50° | 814.5 | 14.2 |
| 50°-60° | 1168.2 | 20.4 |
| 60°-70° | 1492.8 | 26.1 |
| 70°-80° | 696.9 | 12.2 |
| 80°-90° | 65.3 | 1.1 |
| 90°-100° | 1.3 | 0.0 |
| 100°-110° | 12.3 | 0.2 |
| 110°-120° | 25.2 | 0.4 |
| 120°-130° | 43.0 | 0.8 |
| 130°-140° | 60.0 | 1.0 |
| 140°-150° | 65.4 | 1.1 |
| 150°-160° | 56.9 | 1.0 |
| 160°-170° | 38.2 | 0.7 |
| 170°-180° | 13.3 | 0.2 |
| 0°-90° | 5404.8 | 94.5 |
| 0°-180° | 5720.3 | 100.0 |



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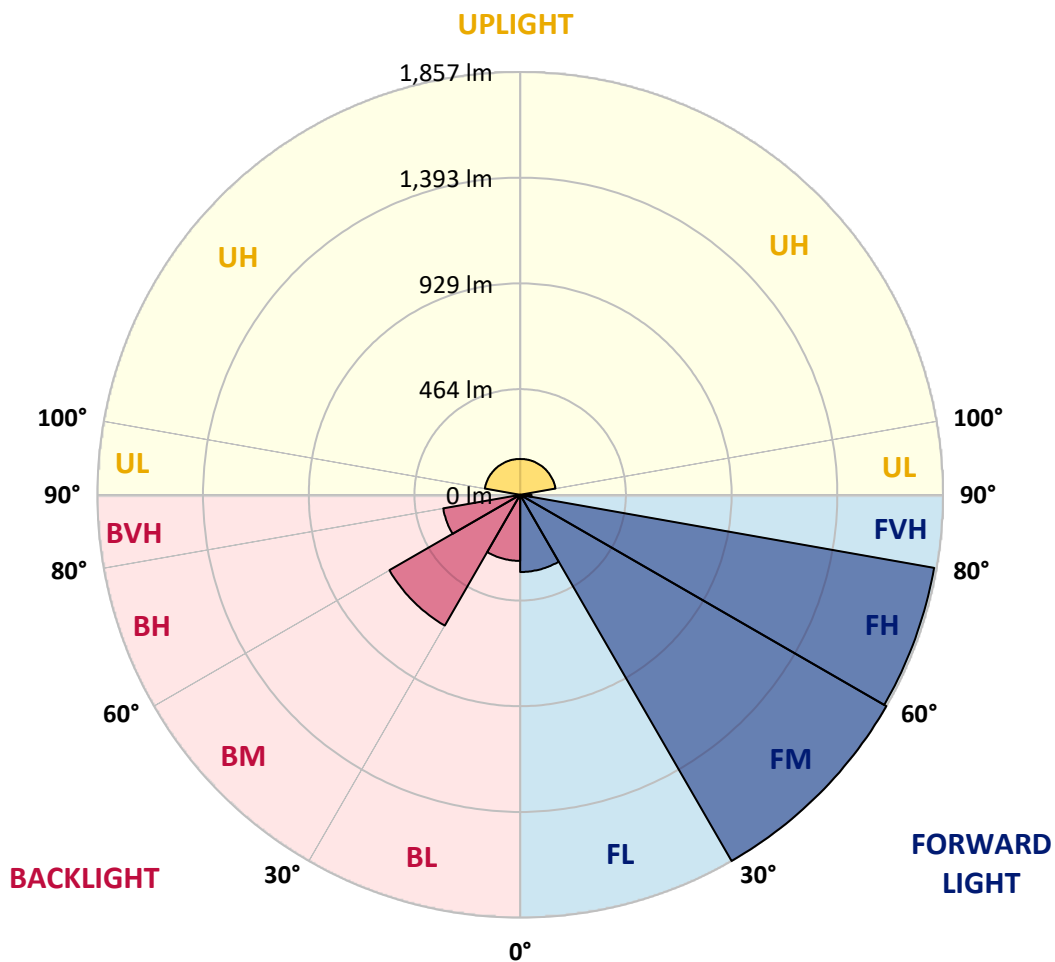
CATALOG NUMBER: ENT-E02-LED-E1-BL3-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|--------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 339.0 | 5.9 | | | |
| FM | (30°-60°) | 1857.5 | 32.5 | | | |
| FH | (60°-80°) | 1846.4 | 32.3 | | | G2/5000 |
| FVH | (80°-90°) | 49.5 | 0.9 | | | G1/100 |
| BL | (0°-30°) | 290.4 | 5.1 | B1/500 | | |
| BM | (30°-60°) | 662.9 | 11.6 | B1/1000 | | |
| BH | (60°-80°) | 343.3 | 6.0 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 15.7 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 1.3 | 0.0 | | U1/10 | |
| UH | (100°-180°) | 157.7 | 2.8 | | U3/500 | |

BUG Rating: B1-U3-G2

Type III Short





REPORT NUMBER: P160007

CATALOG NUMBER: ENT-E02-LED-E1-BL3-ULG

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 |
| 2.5° | 605.0 | 605.0 | 606.0 | 606.0 | 605.0 | 605.0 | 599.0 | 599.0 | 599.0 | 598.0 | 598.0 |
| 5° | 638.0 | 639.0 | 639.0 | 638.0 | 636.0 | 632.0 | 624.0 | 624.0 | 624.0 | 623.0 | 621.0 |
| 7.5° | 676.0 | 675.0 | 676.0 | 673.0 | 669.0 | 664.0 | 653.0 | 652.0 | 650.0 | 650.0 | 648.0 |
| 10° | 718.0 | 715.0 | 718.0 | 714.0 | 706.0 | 697.0 | 684.0 | 680.0 | 680.0 | 680.0 | 676.0 |
| 12.5° | 761.0 | 760.0 | 762.0 | 755.0 | 741.0 | 731.0 | 718.0 | 713.0 | 712.0 | 712.0 | 710.0 |
| 15° | 808.0 | 807.0 | 801.0 | 790.0 | 772.0 | 763.0 | 748.0 | 742.0 | 741.0 | 741.0 | 738.0 |
| 17.5° | 857.0 | 857.0 | 842.0 | 819.0 | 794.0 | 781.0 | 770.0 | 766.0 | 765.0 | 765.0 | 764.0 |
| 20° | 899.0 | 899.0 | 879.0 | 841.0 | 805.0 | 791.0 | 787.0 | 787.0 | 787.0 | 787.0 | 788.0 |
| 22.5° | 930.0 | 927.0 | 900.0 | 853.0 | 809.0 | 797.0 | 807.0 | 808.0 | 808.0 | 810.0 | 811.0 |
| 25° | 944.0 | 943.0 | 911.0 | 855.0 | 808.0 | 806.0 | 828.0 | 831.0 | 833.0 | 835.0 | 838.0 |
| 27.5° | 945.0 | 945.0 | 913.0 | 854.0 | 807.0 | 822.0 | 854.0 | 863.0 | 865.0 | 869.0 | 874.0 |
| 30° | 935.0 | 936.0 | 909.0 | 853.0 | 814.0 | 852.0 | 895.0 | 912.0 | 916.0 | 922.0 | 930.0 |
| 32.5° | 923.0 | 925.0 | 909.0 | 863.0 | 845.0 | 904.0 | 961.0 | 985.0 | 989.0 | 997.0 | 1005.0 |
| 35° | 925.0 | 928.0 | 931.0 | 903.0 | 914.0 | 993.0 | 1075.0 | 1089.0 | 1088.0 | 1101.0 | 1105.0 |
| 37.5° | 938.0 | 945.0 | 967.0 | 972.0 | 1014.0 | 1124.0 | 1210.0 | 1240.0 | 1240.0 | 1252.0 | 1248.0 |
| 40° | 940.0 | 951.0 | 1006.0 | 1064.0 | 1147.0 | 1282.0 | 1400.0 | 1435.0 | 1435.0 | 1440.0 | 1438.0 |
| 42.5° | 987.0 | 997.0 | 1076.0 | 1179.0 | 1297.0 | 1456.0 | 1586.0 | 1617.0 | 1624.0 | 1619.0 | 1623.0 |
| 45° | 1072.0 | 1079.0 | 1176.0 | 1306.0 | 1442.0 | 1623.0 | 1768.0 | 1798.0 | 1805.0 | 1800.0 | 1794.0 |
| 47.5° | 1180.0 | 1190.0 | 1293.0 | 1447.0 | 1587.0 | 1777.0 | 1954.0 | 1989.0 | 1996.0 | 1988.0 | 1991.0 |
| 50° | 1270.0 | 1289.0 | 1399.0 | 1581.0 | 1727.0 | 1909.0 | 2098.0 | 2146.0 | 2152.0 | 2152.0 | 2154.0 |
| 52.5° | 1352.0 | 1369.0 | 1475.0 | 1678.0 | 1840.0 | 2028.0 | 2205.0 | 2267.0 | 2274.0 | 2279.0 | 2283.0 |
| 55° | 1386.0 | 1403.0 | 1509.0 | 1720.0 | 1909.0 | 2139.0 | 2329.0 | 2412.0 | 2416.0 | 2429.0 | 2446.0 |
| 57.5° | 1387.0 | 1401.0 | 1505.0 | 1719.0 | 1945.0 | 2239.0 | 2498.0 | 2627.0 | 2643.0 | 2660.0 | 2689.0 |
| 60° | 1293.0 | 1310.0 | 1414.0 | 1669.0 | 1975.0 | 2351.0 | 2754.0 | 2991.0 | 3014.0 | 3063.0 | 3127.0 |
| 62.5° | 1151.0 | 1163.0 | 1253.0 | 1504.0 | 1975.0 | 2506.0 | 3166.0 | 3558.0 | 3635.0 | 3715.0 | 3833.0 |
| 65° | 1019.0 | 1028.0 | 1085.0 | 1302.0 | 1835.0 | 2632.0 | 3597.0 | 4048.0 | 4131.0 | 4191.0 | 4291.0 |
| 67° | 937.0 | 941.0 | 995.0 | 1172.0 | 1647.0 | 2531.0 | 3626.0 | 4082.0 | 4153.0 | 4215.0 | 4341.0 |
| 67.5° | 909.0 | 912.0 | 963.0 | 1139.0 | 1589.0 | 2470.0 | 3582.0 | 4054.0 | 4131.0 | 4194.0 | 4322.0 |
| 70° | 699.0 | 690.0 | 734.0 | 896.0 | 1284.0 | 1971.0 | 3145.0 | 3689.0 | 3777.0 | 3861.0 | 4016.0 |
| 72.5° | 417.0 | 404.0 | 432.0 | 520.0 | 832.0 | 1385.0 | 2385.0 | 3027.0 | 3139.0 | 3244.0 | 3447.0 |
| 75° | 251.0 | 252.0 | 273.0 | 334.0 | 454.0 | 871.0 | 1541.0 | 1970.0 | 2075.0 | 2174.0 | 2334.0 |
| 77.5° | 125.0 | 124.0 | 143.0 | 194.0 | 331.0 | 541.0 | 895.0 | 1136.0 | 1171.0 | 1218.0 | 1199.0 |
| 80° | 40.0 | 39.0 | 42.0 | 53.0 | 119.0 | 363.0 | 563.0 | 713.0 | 729.0 | 738.0 | 749.0 |
| 82.5° | 6.0 | 7.0 | 8.0 | 13.0 | 22.0 | 87.0 | 350.0 | 496.0 | 518.0 | 544.0 | 594.0 |
| 85° | 0.0 | 0.0 | 1.0 | 1.0 | 3.0 | 7.0 | 33.0 | 85.0 | 89.0 | 108.0 | 127.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 1.0 | 2.0 | 3.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| 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-BL3-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 |



REPORT NUMBER: P160007

CATALOG NUMBER: ENT-E02-LED-E1-BL3-ULG

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 75° | 85° | 90° | 95° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 |
| 2.5° | 597.0 | 597.0 | 596.0 | 595.0 | 595.0 | 595.0 | 593.0 | 592.0 | 586.0 | 584.0 | 580.0 |
| 5° | 621.0 | 621.0 | 619.0 | 618.0 | 617.0 | 617.0 | 614.0 | 608.0 | 600.0 | 595.0 | 587.0 |
| 7.5° | 647.0 | 646.0 | 644.0 | 644.0 | 640.0 | 640.0 | 636.0 | 625.0 | 617.0 | 610.0 | 600.0 |
| 10° | 677.0 | 676.0 | 673.0 | 672.0 | 670.0 | 668.0 | 664.0 | 651.0 | 643.0 | 634.0 | 622.0 |
| 12.5° | 710.0 | 708.0 | 706.0 | 705.0 | 703.0 | 701.0 | 697.0 | 685.0 | 677.0 | 668.0 | 654.0 |
| 15° | 739.0 | 738.0 | 736.0 | 735.0 | 735.0 | 733.0 | 730.0 | 719.0 | 711.0 | 701.0 | 690.0 |
| 17.5° | 765.0 | 764.0 | 763.0 | 763.0 | 762.0 | 762.0 | 761.0 | 751.0 | 746.0 | 738.0 | 727.0 |
| 20° | 787.0 | 788.0 | 788.0 | 788.0 | 789.0 | 790.0 | 792.0 | 787.0 | 782.0 | 775.0 | 769.0 |
| 22.5° | 811.0 | 812.0 | 815.0 | 815.0 | 817.0 | 818.0 | 825.0 | 824.0 | 822.0 | 817.0 | 812.0 |
| 25° | 840.0 | 842.0 | 844.0 | 847.0 | 848.0 | 851.0 | 863.0 | 868.0 | 864.0 | 861.0 | 866.0 |
| 27.5° | 878.0 | 882.0 | 884.0 | 888.0 | 890.0 | 894.0 | 912.0 | 923.0 | 920.0 | 921.0 | 932.0 |
| 30° | 935.0 | 939.0 | 945.0 | 947.0 | 954.0 | 956.0 | 977.0 | 994.0 | 994.0 | 992.0 | 1012.0 |
| 32.5° | 1011.0 | 1014.0 | 1021.0 | 1026.0 | 1030.0 | 1034.0 | 1054.0 | 1072.0 | 1074.0 | 1080.0 | 1088.0 |
| 35° | 1111.0 | 1113.0 | 1117.0 | 1125.0 | 1124.0 | 1126.0 | 1137.0 | 1155.0 | 1165.0 | 1179.0 | 1155.0 |
| 37.5° | 1243.0 | 1250.0 | 1248.0 | 1249.0 | 1241.0 | 1246.0 | 1250.0 | 1269.0 | 1290.0 | 1304.0 | 1211.0 |
| 40° | 1431.0 | 1436.0 | 1431.0 | 1424.0 | 1418.0 | 1415.0 | 1409.0 | 1430.0 | 1448.0 | 1438.0 | 1255.0 |
| 42.5° | 1614.0 | 1616.0 | 1612.0 | 1600.0 | 1595.0 | 1585.0 | 1569.0 | 1595.0 | 1605.0 | 1558.0 | 1278.0 |
| 45° | 1795.0 | 1792.0 | 1785.0 | 1783.0 | 1773.0 | 1763.0 | 1754.0 | 1771.0 | 1767.0 | 1675.0 | 1288.0 |
| 47.5° | 1985.0 | 1982.0 | 1977.0 | 1969.0 | 1958.0 | 1956.0 | 1948.0 | 1946.0 | 1917.0 | 1775.0 | 1283.0 |
| 50° | 2151.0 | 2153.0 | 2142.0 | 2146.0 | 2141.0 | 2131.0 | 2124.0 | 2128.0 | 2059.0 | 1863.0 | 1273.0 |
| 52.5° | 2294.0 | 2294.0 | 2289.0 | 2294.0 | 2292.0 | 2287.0 | 2293.0 | 2358.0 | 2215.0 | 1987.0 | 1258.0 |
| 55° | 2460.0 | 2466.0 | 2462.0 | 2467.0 | 2470.0 | 2481.0 | 2506.0 | 2658.0 | 2448.0 | 2139.0 | 1224.0 |
| 57.5° | 2703.0 | 2718.0 | 2714.0 | 2734.0 | 2752.0 | 2781.0 | 2872.0 | 3032.0 | 2737.0 | 2306.0 | 1157.0 |
| 60° | 3139.0 | 3188.0 | 3186.0 | 3221.0 | 3257.0 | 3290.0 | 3449.0 | 3480.0 | 3064.0 | 2524.0 | 1107.0 |
| 62.5° | 3865.0 | 3905.0 | 3922.0 | 3960.0 | 3983.0 | 3989.0 | 4117.0 | 3890.0 | 3356.0 | 2722.0 | 1079.0 |
| 65° | 4335.0 | 4351.0 | 4366.0 | 4361.0 | 4347.0 | 4324.0 | 4332.0 | 3852.0 | 3259.0 | 2595.0 | 926.0 |
| 67° | 4391.0 | 4424.0 | 4436.0 | 4428.0 | 4407.0 | 4375.0 | 4336.0 | 3680.0 | 3053.0 | 2397.0 | 783.0 |
| 67.5° | 4375.0 | 4409.0 | 4420.0 | 4413.0 | 4395.0 | 4371.0 | 4325.0 | 3615.0 | 2983.0 | 2333.0 | 746.0 |
| 70° | 4118.0 | 4167.0 | 4212.0 | 4227.0 | 4228.0 | 4224.0 | 4178.0 | 3156.0 | 2539.0 | 1959.0 | 566.0 |
| 72.5° | 3511.0 | 3574.0 | 3668.0 | 3638.0 | 3686.0 | 3655.0 | 3550.0 | 2157.0 | 1740.0 | 1400.0 | 397.0 |
| 75° | 2369.0 | 2397.0 | 2473.0 | 2386.0 | 2394.0 | 2339.0 | 1931.0 | 1253.0 | 1079.0 | 911.0 | 239.0 |
| 77.5° | 1192.0 | 1210.0 | 1198.0 | 1146.0 | 1126.0 | 1081.0 | 836.0 | 272.0 | 272.0 | 324.0 | 125.0 |
| 80° | 756.0 | 763.0 | 771.0 | 783.0 | 798.0 | 800.0 | 580.0 | 80.0 | 72.0 | 75.0 | 68.0 |
| 82.5° | 620.0 | 639.0 | 664.0 | 669.0 | 675.0 | 680.0 | 400.0 | 44.0 | 36.0 | 40.0 | 48.0 |
| 85° | 144.0 | 156.0 | 149.0 | 132.0 | 141.0 | 109.0 | 56.0 | 18.0 | 16.0 | 20.0 | 33.0 |
| 87.5° | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 4.0 | 7.0 | 17.0 |
| 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: P160007

CATALOG NUMBER: ENT-E02-LED-E1-BL3-ULG

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 75° | 85° | 90° | 95° | 105° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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: P160007

CATALOG NUMBER: ENT-E02-LED-E1-BL3-ULG

CANDELA DISTRIBUTION (continued):

| | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 | 582.0 |
| 2.5° | 576.0 | 573.0 | 569.0 | 568.0 | 567.0 | 565.0 | 564.0 | 563.0 |
| 5° | 579.0 | 573.0 | 567.0 | 563.0 | 561.0 | 559.0 | 557.0 | 557.0 |
| 7.5° | 591.0 | 584.0 | 575.0 | 571.0 | 567.0 | 564.0 | 562.0 | 562.0 |
| 10° | 611.0 | 603.0 | 592.0 | 587.0 | 582.0 | 579.0 | 577.0 | 575.0 |
| 12.5° | 641.0 | 631.0 | 618.0 | 610.0 | 605.0 | 604.0 | 602.0 | 601.0 |
| 15° | 678.0 | 667.0 | 653.0 | 645.0 | 637.0 | 635.0 | 633.0 | 632.0 |
| 17.5° | 715.0 | 706.0 | 695.0 | 681.0 | 665.0 | 652.0 | 646.0 | 645.0 |
| 20° | 757.0 | 753.0 | 736.0 | 705.0 | 670.0 | 643.0 | 632.0 | 632.0 |
| 22.5° | 810.0 | 799.0 | 758.0 | 703.0 | 651.0 | 613.0 | 598.0 | 598.0 |
| 25° | 868.0 | 831.0 | 755.0 | 681.0 | 617.0 | 570.0 | 550.0 | 550.0 |
| 27.5° | 919.0 | 840.0 | 737.0 | 644.0 | 566.0 | 515.0 | 492.0 | 491.0 |
| 30° | 959.0 | 835.0 | 705.0 | 592.0 | 506.0 | 448.0 | 422.0 | 422.0 |
| 32.5° | 981.0 | 818.0 | 661.0 | 531.0 | 433.0 | 367.0 | 335.0 | 336.0 |
| 35° | 987.0 | 789.0 | 603.0 | 450.0 | 345.0 | 280.0 | 251.0 | 251.0 |
| 37.5° | 981.0 | 743.0 | 531.0 | 361.0 | 258.0 | 212.0 | 190.0 | 188.0 |
| 40° | 961.0 | 674.0 | 435.0 | 264.0 | 192.0 | 165.0 | 156.0 | 154.0 |
| 42.5° | 921.0 | 591.0 | 327.0 | 189.0 | 154.0 | 143.0 | 141.0 | 140.0 |
| 45° | 858.0 | 479.0 | 227.0 | 148.0 | 138.0 | 135.0 | 135.0 | 134.0 |
| 47.5° | 779.0 | 366.0 | 162.0 | 131.0 | 130.0 | 130.0 | 130.0 | 130.0 |
| 50° | 691.0 | 259.0 | 132.0 | 124.0 | 123.0 | 125.0 | 126.0 | 126.0 |
| 52.5° | 600.0 | 181.0 | 121.0 | 119.0 | 117.0 | 120.0 | 121.0 | 121.0 |
| 55° | 501.0 | 142.0 | 116.0 | 114.0 | 111.0 | 112.0 | 114.0 | 114.0 |
| 57.5° | 399.0 | 126.0 | 114.0 | 111.0 | 105.0 | 105.0 | 107.0 | 107.0 |
| 60° | 317.0 | 121.0 | 113.0 | 106.0 | 98.0 | 98.0 | 100.0 | 101.0 |
| 62.5° | 265.0 | 120.0 | 113.0 | 101.0 | 95.0 | 92.0 | 94.0 | 94.0 |
| 65° | 221.0 | 120.0 | 110.0 | 101.0 | 90.0 | 86.0 | 88.0 | 88.0 |
| 67° | 185.0 | 118.0 | 108.0 | 101.0 | 88.0 | 83.0 | 83.0 | 83.0 |
| 67.5° | 175.0 | 117.0 | 109.0 | 101.0 | 87.0 | 82.0 | 81.0 | 81.0 |
| 70° | 131.0 | 106.0 | 109.0 | 102.0 | 85.0 | 75.0 | 73.0 | 73.0 |
| 72.5° | 102.0 | 97.0 | 106.0 | 105.0 | 83.0 | 69.0 | 65.0 | 64.0 |
| 75° | 83.0 | 88.0 | 107.0 | 102.0 | 78.0 | 63.0 | 57.0 | 56.0 |
| 77.5° | 71.0 | 75.0 | 90.0 | 82.0 | 65.0 | 56.0 | 50.0 | 49.0 |
| 80° | 56.0 | 64.0 | 64.0 | 56.0 | 48.0 | 45.0 | 42.0 | 42.0 |
| 82.5° | 45.0 | 49.0 | 42.0 | 38.0 | 36.0 | 35.0 | 33.0 | 33.0 |
| 85° | 37.0 | 40.0 | 31.0 | 28.0 | 27.0 | 26.0 | 24.0 | 24.0 |
| 87.5° | 29.0 | 25.0 | 16.0 | 15.0 | 15.0 | 14.0 | 14.0 | 15.0 |
| 90° | 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 |
| 95° | 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 |
| 100° | 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 |
| 105° | 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 |



REPORT NUMBER: P160007

CATALOG NUMBER: ENT-E02-LED-E1-BL3-ULG

CANDELA DISTRIBUTION (continued):

| | 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 |
| 112.5° | 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 |
| 117.5° | 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 |
| 122.5° | 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 |
| 127.5° | 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 |
| 132.5° | 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 |
| 137.5° | 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 |
| 142.5° | 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 |
| 147.5° | 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 |
| 152.5° | 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 |
| 157.5° | 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 |
| 162.5° | 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 |
| 167.5° | 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 |
| 172.5° | 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 |
| 177.5° | 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 |

(END OF REPORT)