

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: P173601

Luminaire Tested: **ENT-FXX-LED-E1-BL3-7050-ULG-CWB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P173601
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-FXX-LED-E1-BL3-7050-ULG-CWB
Description: ENTRI LED LUMINAIRE WITH UPLIGHT, EMERGENCY MODE
LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (14) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1584.4 lumens
Efficiency: N/A
Efficacy: 288.1 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B0 - U3 - G1

Input Watts (W): 5.5
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

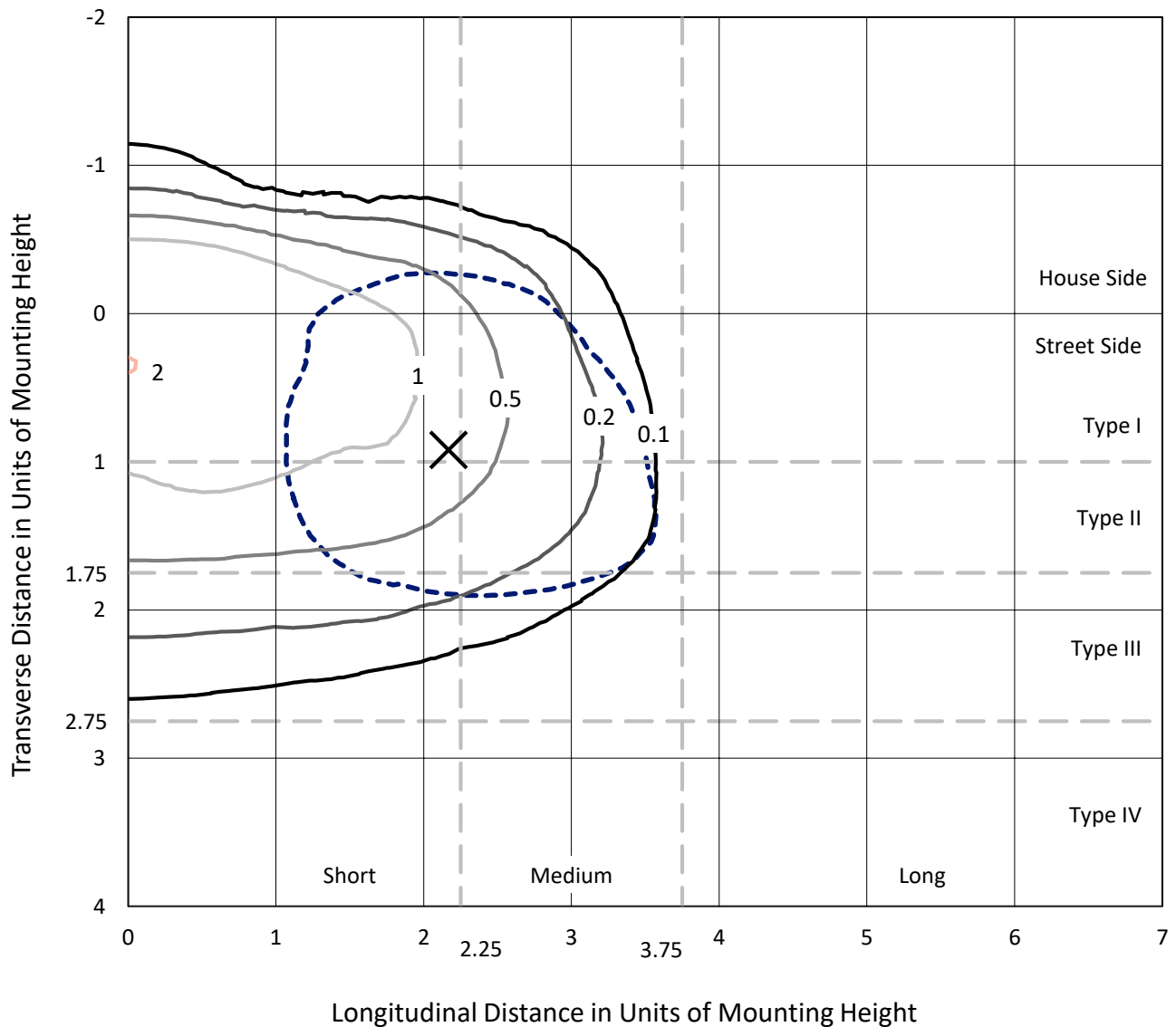


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

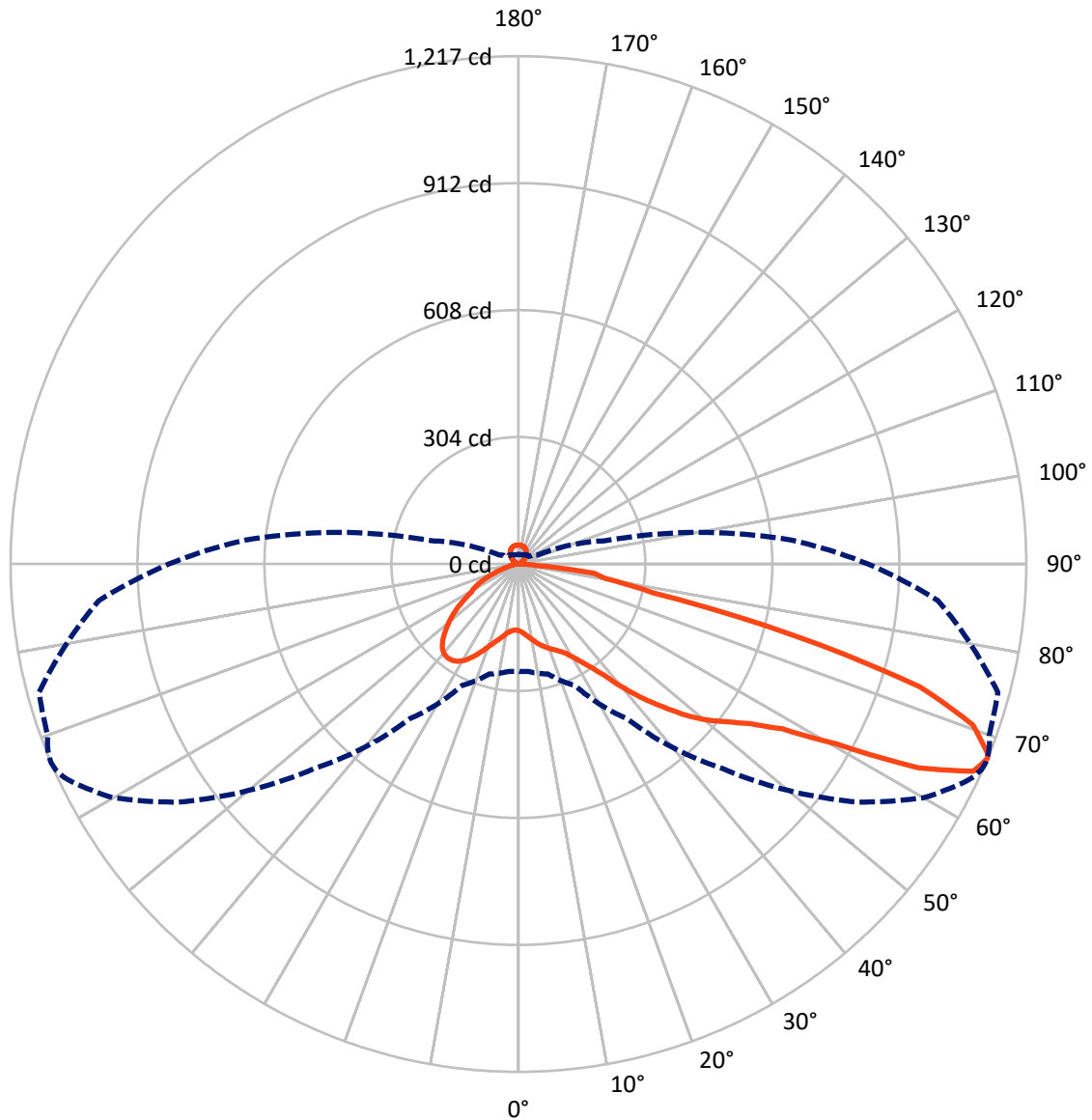


Based on 10 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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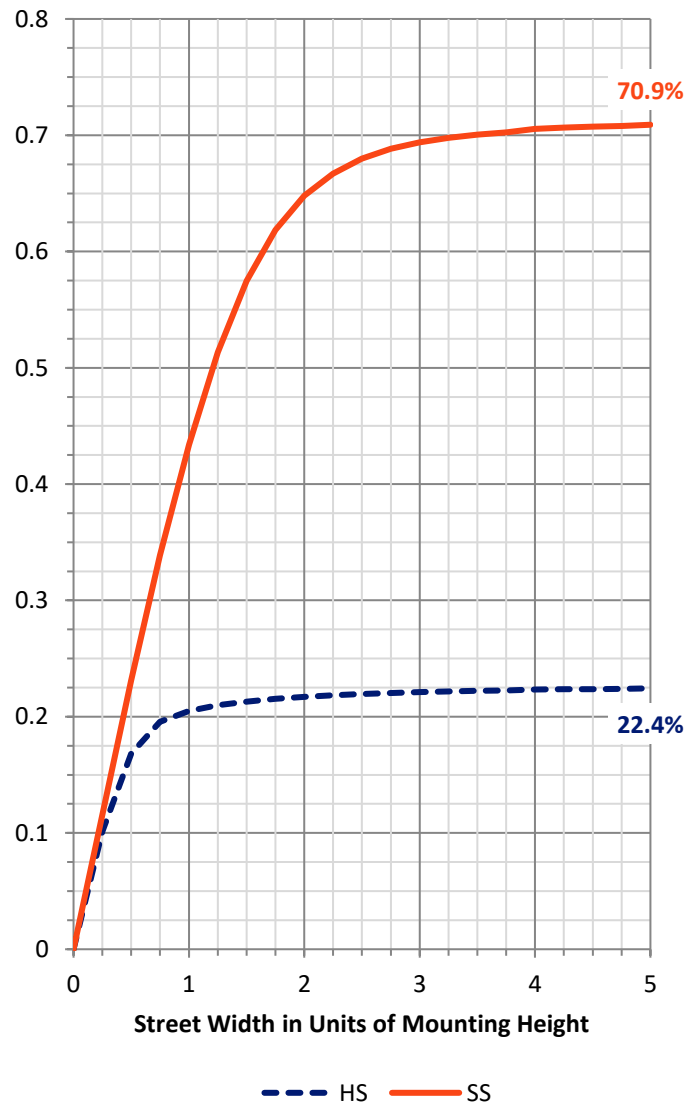
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 359.9 | 51.1 | 411.0 |
| | % Fixture | 22.7 | 3.2 | 25.9 |
| Street Side | Lumens | 1122.4 | 51.1 | 1173.4 |
| | % Fixture | 70.8 | 3.2 | 74.1 |
| Total | Lumens | 1482.3 | 102.1 | 1584.4 |
| | % Fixture | 93.6 | 6.4 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 16.1 | 1.0 |
| 10°-20° | 55.6 | 3.5 |
| 20°-30° | 100.9 | 6.4 |
| 30°-40° | 147.5 | 9.3 |
| 40°-50° | 223.4 | 14.1 |
| 50°-60° | 320.4 | 20.2 |
| 60°-70° | 409.4 | 25.8 |
| 70°-80° | 191.1 | 12.1 |
| 80°-90° | 17.9 | 1.1 |
| 90°-100° | 0.4 | 0.0 |
| 100°-110° | 4.0 | 0.3 |
| 110°-120° | 8.2 | 0.5 |
| 120°-130° | 13.9 | 0.9 |
| 130°-140° | 19.4 | 1.2 |
| 140°-150° | 21.2 | 1.3 |
| 150°-160° | 18.4 | 1.2 |
| 160°-170° | 12.4 | 0.8 |
| 170°-180° | 4.3 | 0.3 |
| 0°-90° | 1482.3 | 93.6 |
| 0°-180° | 1584.4 | 100.0 |



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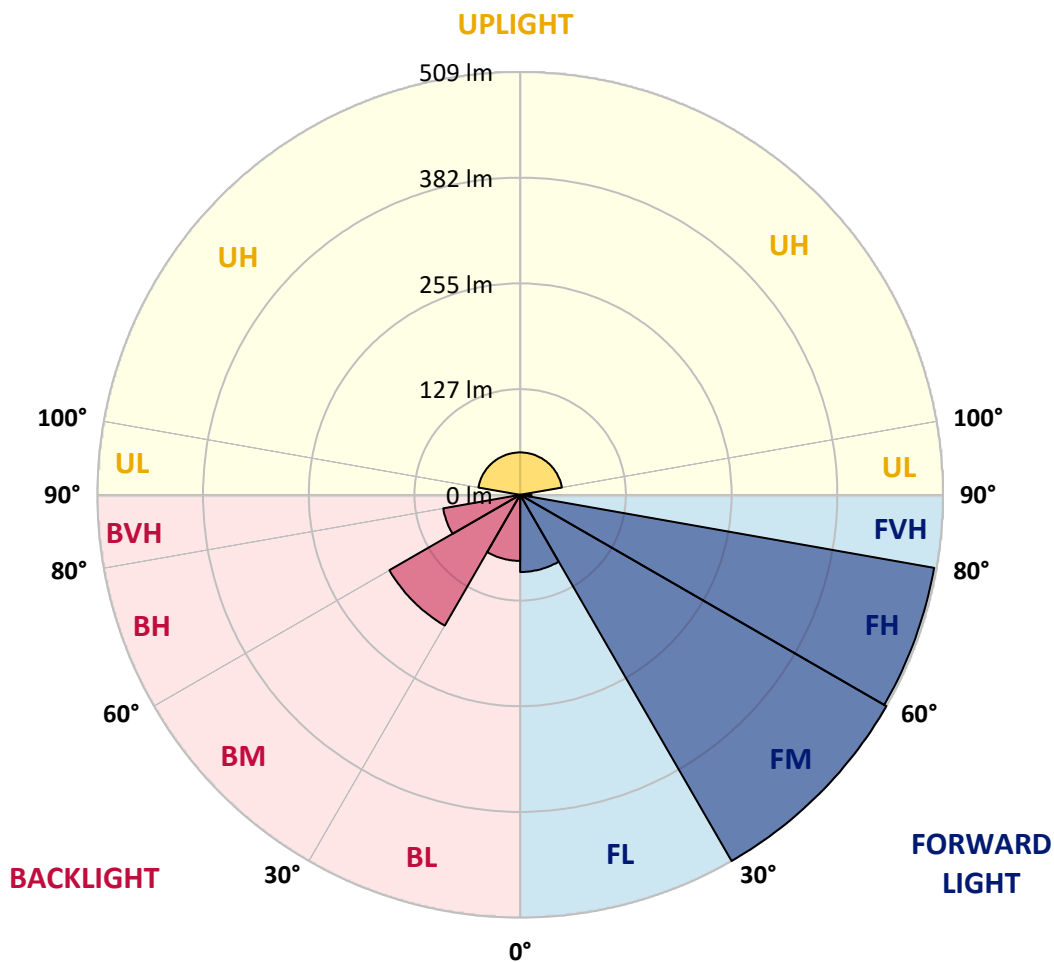
CATALOG NUMBER: ENT-FXX-LED-E1-BL3-7050-ULG-CWB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|--------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 93.0 | 5.9 | | | |
| FM | (30°-60°) | 509.4 | 32.2 | | | |
| FH | (60°-80°) | 506.4 | 32.0 | | | G0/660 |
| FVH | (80°-90°) | 13.6 | 0.9 | | | G1/100 |
| BL | (0°-30°) | 79.6 | 5.0 | B0/110 | | |
| BM | (30°-60°) | 181.8 | 11.5 | B0/220 | | |
| BH | (60°-80°) | 94.2 | 5.9 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 4.3 | 0.3 | | | G0/10 |
| UL | (90°-100°) | 0.4 | 0.0 | | U1/10 | |
| UH | (100°-180°) | 51.1 | 3.2 | | U3/500 | |

BUG Rating: B0-U3-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0° | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 |
| 2.5° | 165.9 | 165.9 | 166.2 | 166.2 | 165.9 | 165.9 | 164.3 | 164.3 | 164.3 | 164.0 | 164.0 |
| 5° | 175.0 | 175.3 | 175.3 | 175.0 | 174.4 | 173.3 | 171.1 | 171.1 | 171.1 | 170.8 | 170.3 |
| 7.5° | 185.4 | 185.1 | 185.4 | 184.6 | 183.5 | 182.1 | 179.1 | 178.8 | 178.3 | 178.3 | 177.7 |
| 10° | 196.9 | 196.1 | 196.9 | 195.8 | 193.6 | 191.1 | 187.6 | 186.5 | 186.5 | 186.5 | 185.4 |
| 12.5° | 208.7 | 208.4 | 209.0 | 207.0 | 203.2 | 200.5 | 196.9 | 195.6 | 195.3 | 195.3 | 194.7 |
| 15° | 221.6 | 221.3 | 219.7 | 216.7 | 211.7 | 209.2 | 205.1 | 203.5 | 203.2 | 203.2 | 202.4 |
| 17.5° | 235.0 | 235.0 | 230.9 | 224.6 | 217.8 | 214.2 | 211.2 | 210.1 | 209.8 | 209.8 | 209.5 |
| 20° | 246.5 | 246.5 | 241.1 | 230.6 | 220.8 | 216.9 | 215.8 | 215.8 | 215.8 | 215.8 | 216.1 |
| 22.5° | 255.1 | 254.2 | 246.8 | 234.0 | 221.9 | 218.6 | 221.3 | 221.6 | 221.6 | 222.1 | 222.4 |
| 25° | 258.9 | 258.6 | 249.8 | 234.5 | 221.6 | 221.0 | 227.1 | 227.9 | 228.4 | 229.0 | 229.8 |
| 27.5° | 259.2 | 259.2 | 250.4 | 234.2 | 221.3 | 225.4 | 234.2 | 236.7 | 237.2 | 238.3 | 239.7 |
| 30° | 256.4 | 256.7 | 249.3 | 234.0 | 223.2 | 233.7 | 245.4 | 250.1 | 251.2 | 252.9 | 255.1 |
| 32.5° | 253.1 | 253.7 | 249.3 | 236.7 | 231.7 | 247.9 | 263.5 | 270.1 | 271.2 | 273.4 | 275.6 |
| 35° | 253.7 | 254.5 | 255.3 | 247.6 | 250.7 | 272.3 | 294.8 | 298.7 | 298.4 | 301.9 | 303.0 |
| 37.5° | 257.3 | 259.2 | 265.2 | 266.6 | 278.1 | 308.3 | 331.9 | 340.1 | 340.1 | 343.3 | 342.3 |
| 40° | 257.8 | 260.8 | 275.9 | 291.8 | 314.6 | 351.6 | 383.9 | 393.6 | 393.6 | 394.9 | 394.4 |
| 42.5° | 270.7 | 273.4 | 295.1 | 323.3 | 355.7 | 399.3 | 435.0 | 443.5 | 445.4 | 444.0 | 445.1 |
| 45° | 294.0 | 295.9 | 322.5 | 358.2 | 395.5 | 445.1 | 484.9 | 493.1 | 495.0 | 493.6 | 492.0 |
| 47.5° | 323.6 | 326.4 | 354.6 | 396.8 | 435.2 | 487.4 | 535.9 | 545.5 | 547.4 | 545.2 | 546.0 |
| 50° | 348.3 | 353.5 | 383.7 | 433.6 | 473.6 | 523.6 | 575.4 | 588.5 | 590.2 | 590.2 | 590.7 |
| 52.5° | 370.8 | 375.4 | 404.5 | 460.2 | 504.6 | 556.2 | 604.7 | 621.7 | 623.6 | 625.0 | 626.1 |
| 55° | 380.1 | 384.8 | 413.8 | 471.7 | 523.6 | 586.6 | 638.7 | 661.5 | 662.6 | 666.1 | 670.8 |
| 57.5° | 380.4 | 384.2 | 412.7 | 471.4 | 533.4 | 614.0 | 685.1 | 720.5 | 724.8 | 729.5 | 737.5 |
| 60° | 354.6 | 359.3 | 387.8 | 457.7 | 541.7 | 644.8 | 755.3 | 820.3 | 826.6 | 840.0 | 857.6 |
| 62.5° | 315.7 | 318.9 | 343.6 | 412.5 | 541.7 | 687.3 | 868.3 | 975.8 | 996.9 | 1018.8 | 1051.2 |
| 65° | 279.5 | 281.9 | 297.6 | 357.1 | 503.3 | 721.8 | 986.5 | 1110.2 | 1132.9 | 1149.4 | 1176.8 |
| 67° | 257.0 | 258.1 | 272.9 | 321.4 | 451.7 | 694.1 | 994.4 | 1119.5 | 1139.0 | 1156.0 | 1190.5 |
| 67.5° | 249.3 | 250.1 | 264.1 | 312.4 | 435.8 | 677.4 | 982.4 | 1111.8 | 1132.9 | 1150.2 | 1185.3 |
| 70° | 191.7 | 189.2 | 201.3 | 245.7 | 352.1 | 540.6 | 862.5 | 1011.7 | 1035.8 | 1058.9 | 1101.4 |
| 72.5° | 114.4 | 110.8 | 118.5 | 142.6 | 228.2 | 379.8 | 654.1 | 830.2 | 860.9 | 889.7 | 945.4 |
| 75° | 68.8 | 69.1 | 74.9 | 91.6 | 124.5 | 238.9 | 422.6 | 540.3 | 569.1 | 596.2 | 640.1 |
| 77.5° | 34.3 | 34.0 | 39.2 | 53.2 | 90.8 | 148.4 | 245.4 | 311.6 | 321.1 | 334.0 | 328.8 |
| 80° | 11.0 | 10.7 | 11.5 | 14.5 | 32.6 | 99.6 | 154.4 | 195.6 | 199.9 | 202.4 | 205.4 |
| 82.5° | 1.7 | 1.9 | 2.2 | 3.6 | 6.0 | 23.9 | 96.0 | 136.0 | 142.1 | 149.2 | 162.9 |
| 85° | 0.0 | 0.0 | 0.3 | 0.3 | 0.8 | 1.9 | 9.1 | 23.3 | 24.4 | 29.6 | 34.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.3 | 0.6 | 0.8 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 97.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 100° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 102.5° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 105° | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| 107.5° | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 110° | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| 112.5° | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 |
| 115° | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 |
| 117.5° | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 |
| 120° | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 |
| 122.5° | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 |
| 125° | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 |
| 127.5° | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 |
| 130° | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 |
| 132.5° | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 |
| 135° | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 |
| 137.5° | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 |
| 140° | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 |
| 142.5° | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 |
| 145° | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 |
| 147.5° | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 |
| 150° | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 |
| 152.5° | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 |
| 155° | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| 157.5° | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 |
| 160° | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 |
| 162.5° | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 |
| 165° | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 |
| 167.5° | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 |
| 170° | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 |
| 172.5° | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 |
| 175° | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 |
| 177.5° | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 |
| 180° | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 |



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CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 75° | 85° | 90° | 95° | 105° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0° | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 |
| 2.5° | 163.7 | 163.7 | 163.5 | 163.2 | 163.2 | 163.2 | 162.6 | 162.4 | 160.7 | 160.2 | 159.1 |
| 5° | 170.3 | 170.3 | 169.7 | 169.5 | 169.2 | 169.2 | 168.4 | 166.7 | 164.5 | 163.2 | 161.0 |
| 7.5° | 177.5 | 177.2 | 176.6 | 176.6 | 175.5 | 175.5 | 174.4 | 171.4 | 169.2 | 167.3 | 164.5 |
| 10° | 185.7 | 185.4 | 184.6 | 184.3 | 183.7 | 183.2 | 182.1 | 178.5 | 176.4 | 173.9 | 170.6 |
| 12.5° | 194.7 | 194.2 | 193.6 | 193.4 | 192.8 | 192.3 | 191.1 | 187.8 | 185.7 | 183.2 | 179.4 |
| 15° | 202.7 | 202.4 | 201.8 | 201.6 | 201.6 | 201.0 | 200.2 | 197.2 | 195.0 | 192.3 | 189.2 |
| 17.5° | 209.8 | 209.5 | 209.2 | 209.2 | 209.0 | 209.0 | 208.7 | 206.0 | 204.6 | 202.4 | 199.4 |
| 20° | 215.8 | 216.1 | 216.1 | 216.1 | 216.4 | 216.7 | 217.2 | 215.8 | 214.5 | 212.5 | 210.9 |
| 22.5° | 222.4 | 222.7 | 223.5 | 223.5 | 224.1 | 224.3 | 226.2 | 226.0 | 225.4 | 224.1 | 222.7 |
| 25° | 230.4 | 230.9 | 231.5 | 232.3 | 232.6 | 233.4 | 236.7 | 238.1 | 237.0 | 236.1 | 237.5 |
| 27.5° | 240.8 | 241.9 | 242.4 | 243.5 | 244.1 | 245.2 | 250.1 | 253.1 | 252.3 | 252.6 | 255.6 |
| 30° | 256.4 | 257.5 | 259.2 | 259.7 | 261.6 | 262.2 | 267.9 | 272.6 | 272.6 | 272.1 | 277.5 |
| 32.5° | 277.3 | 278.1 | 280.0 | 281.4 | 282.5 | 283.6 | 289.1 | 294.0 | 294.6 | 296.2 | 298.4 |
| 35° | 304.7 | 305.2 | 306.3 | 308.5 | 308.3 | 308.8 | 311.8 | 316.8 | 319.5 | 323.3 | 316.8 |
| 37.5° | 340.9 | 342.8 | 342.3 | 342.5 | 340.3 | 341.7 | 342.8 | 348.0 | 353.8 | 357.6 | 332.1 |
| 40° | 392.5 | 393.8 | 392.5 | 390.5 | 388.9 | 388.1 | 386.4 | 392.2 | 397.1 | 394.4 | 344.2 |
| 42.5° | 442.6 | 443.2 | 442.1 | 438.8 | 437.4 | 434.7 | 430.3 | 437.4 | 440.2 | 427.3 | 350.5 |
| 45° | 492.3 | 491.5 | 489.5 | 489.0 | 486.3 | 483.5 | 481.0 | 485.7 | 484.6 | 459.4 | 353.2 |
| 47.5° | 544.4 | 543.6 | 542.2 | 540.0 | 537.0 | 536.4 | 534.2 | 533.7 | 525.7 | 486.8 | 351.9 |
| 50° | 589.9 | 590.5 | 587.4 | 588.5 | 587.2 | 584.4 | 582.5 | 583.6 | 564.7 | 510.9 | 349.1 |
| 52.5° | 629.1 | 629.1 | 627.8 | 629.1 | 628.6 | 627.2 | 628.8 | 646.7 | 607.5 | 544.9 | 345.0 |
| 55° | 674.7 | 676.3 | 675.2 | 676.6 | 677.4 | 680.4 | 687.3 | 729.0 | 671.4 | 586.6 | 335.7 |
| 57.5° | 741.3 | 745.4 | 744.3 | 749.8 | 754.8 | 762.7 | 787.6 | 831.5 | 750.6 | 632.4 | 317.3 |
| 60° | 860.9 | 874.3 | 873.8 | 883.4 | 893.2 | 902.3 | 945.9 | 954.4 | 840.3 | 692.2 | 303.6 |
| 62.5° | 1060.0 | 1070.9 | 1075.6 | 1086.0 | 1092.3 | 1094.0 | 1129.1 | 1066.8 | 920.4 | 746.5 | 295.9 |
| 65° | 1188.9 | 1193.3 | 1197.4 | 1196.0 | 1192.2 | 1185.9 | 1188.0 | 1056.4 | 893.8 | 711.7 | 254.0 |
| 67° | 1204.2 | 1213.3 | 1216.6 | 1214.4 | 1208.6 | 1199.9 | 1189.1 | 1009.2 | 837.3 | 657.4 | 214.8 |
| 67.5° | 1199.9 | 1209.2 | 1212.2 | 1210.3 | 1205.3 | 1198.8 | 1186.1 | 991.4 | 818.1 | 639.8 | 204.6 |
| 70° | 1129.4 | 1142.8 | 1155.2 | 1159.3 | 1159.5 | 1158.4 | 1145.8 | 865.5 | 696.3 | 537.3 | 155.2 |
| 72.5° | 962.9 | 980.2 | 1006.0 | 997.7 | 1010.9 | 1002.4 | 973.6 | 591.5 | 477.2 | 383.9 | 108.9 |
| 75° | 649.7 | 657.4 | 678.2 | 654.4 | 656.6 | 641.5 | 529.6 | 343.6 | 295.9 | 249.8 | 65.6 |
| 77.5° | 326.9 | 331.9 | 328.6 | 314.3 | 308.8 | 296.5 | 229.3 | 74.6 | 74.6 | 88.9 | 34.3 |
| 80° | 207.3 | 209.2 | 211.4 | 214.8 | 218.9 | 219.4 | 159.1 | 22.0 | 19.7 | 20.6 | 18.6 |
| 82.5° | 170.0 | 175.3 | 182.1 | 183.5 | 185.1 | 186.5 | 109.7 | 12.1 | 9.9 | 11.0 | 13.2 |
| 85° | 39.5 | 42.8 | 40.9 | 36.2 | 38.7 | 29.9 | 15.3 | 4.9 | 4.4 | 5.5 | 9.1 |
| 87.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.1 | 1.9 | 4.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 97.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 100° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 102.5° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 105° | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| 107.5° | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |



REPORT NUMBER: P173601

CATALOG NUMBER: ENT-FXX-LED-E1-BL3-7050-ULG-CWB

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 75° | 85° | 90° | 95° | 105° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 110° | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| 112.5° | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 |
| 115° | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 |
| 117.5° | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 |
| 120° | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 |
| 122.5° | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 |
| 125° | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 |
| 127.5° | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 |
| 130° | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 |
| 132.5° | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 |
| 135° | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 |
| 137.5° | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 |
| 140° | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 |
| 142.5° | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 |
| 145° | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 |
| 147.5° | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 |
| 150° | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 |
| 152.5° | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 |
| 155° | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| 157.5° | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 |
| 160° | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 |
| 162.5° | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 |
| 165° | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 |
| 167.5° | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 |
| 170° | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 |
| 172.5° | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 |
| 175° | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 |
| 177.5° | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 |
| 180° | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 |



REPORT NUMBER: P173601

CATALOG NUMBER: ENT-FXX-LED-E1-BL3-7050-ULG-CWB

CANDELA DISTRIBUTION (continued):

| | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 | 159.6 |
| 2.5° | 158.0 | 157.2 | 156.1 | 155.8 | 155.5 | 155.0 | 154.7 | 154.4 |
| 5° | 158.8 | 157.2 | 155.5 | 154.4 | 153.9 | 153.3 | 152.8 | 152.8 |
| 7.5° | 162.1 | 160.2 | 157.7 | 156.6 | 155.5 | 154.7 | 154.1 | 154.1 |
| 10° | 167.6 | 165.4 | 162.4 | 161.0 | 159.6 | 158.8 | 158.3 | 157.7 |
| 12.5° | 175.8 | 173.1 | 169.5 | 167.3 | 165.9 | 165.6 | 165.1 | 164.8 |
| 15° | 185.9 | 182.9 | 179.1 | 176.9 | 174.7 | 174.2 | 173.6 | 173.3 |
| 17.5° | 196.1 | 193.6 | 190.6 | 186.8 | 182.4 | 178.8 | 177.2 | 176.9 |
| 20° | 207.6 | 206.5 | 201.8 | 193.4 | 183.7 | 176.4 | 173.3 | 173.3 |
| 22.5° | 222.1 | 219.1 | 207.9 | 192.8 | 178.5 | 168.1 | 164.0 | 164.0 |
| 25° | 238.1 | 227.9 | 207.0 | 186.8 | 169.2 | 156.3 | 150.8 | 150.8 |
| 27.5° | 252.0 | 230.4 | 202.1 | 176.6 | 155.2 | 141.2 | 134.9 | 134.7 |
| 30° | 263.0 | 229.0 | 193.4 | 162.4 | 138.8 | 122.9 | 115.7 | 115.7 |
| 32.5° | 269.0 | 224.3 | 181.3 | 145.6 | 118.8 | 100.7 | 91.9 | 92.1 |
| 35° | 270.7 | 216.4 | 165.4 | 123.4 | 94.6 | 76.8 | 68.8 | 68.8 |
| 37.5° | 269.0 | 203.8 | 145.6 | 99.0 | 70.7 | 58.1 | 52.1 | 51.6 |
| 40° | 263.5 | 184.8 | 119.3 | 72.4 | 52.6 | 45.3 | 42.8 | 42.2 |
| 42.5° | 252.6 | 162.1 | 89.7 | 51.8 | 42.2 | 39.2 | 38.7 | 38.4 |
| 45° | 235.3 | 131.4 | 62.3 | 40.6 | 37.8 | 37.0 | 37.0 | 36.7 |
| 47.5° | 213.7 | 100.4 | 44.4 | 35.9 | 35.6 | 35.6 | 35.6 | 35.6 |
| 50° | 189.5 | 71.0 | 36.2 | 34.0 | 33.7 | 34.3 | 34.5 | 34.5 |
| 52.5° | 164.5 | 49.6 | 33.2 | 32.6 | 32.1 | 32.9 | 33.2 | 33.2 |
| 55° | 137.4 | 38.9 | 31.8 | 31.3 | 30.4 | 30.7 | 31.3 | 31.3 |
| 57.5° | 109.4 | 34.5 | 31.3 | 30.4 | 28.8 | 28.8 | 29.3 | 29.3 |
| 60° | 86.9 | 33.2 | 31.0 | 29.1 | 26.9 | 26.9 | 27.4 | 27.7 |
| 62.5° | 72.7 | 32.9 | 31.0 | 27.7 | 26.1 | 25.2 | 25.8 | 25.8 |
| 65° | 60.6 | 32.9 | 30.2 | 27.7 | 24.7 | 23.6 | 24.1 | 24.1 |
| 67° | 50.7 | 32.4 | 29.6 | 27.7 | 24.1 | 22.8 | 22.8 | 22.8 |
| 67.5° | 48.0 | 32.1 | 29.9 | 27.7 | 23.9 | 22.5 | 22.2 | 22.2 |
| 70° | 35.9 | 29.1 | 29.9 | 28.0 | 23.3 | 20.6 | 20.0 | 20.0 |
| 72.5° | 28.0 | 26.6 | 29.1 | 28.8 | 22.8 | 18.9 | 17.8 | 17.5 |
| 75° | 22.8 | 24.1 | 29.3 | 28.0 | 21.4 | 17.3 | 15.6 | 15.3 |
| 77.5° | 19.5 | 20.6 | 24.7 | 22.5 | 17.8 | 15.3 | 13.7 | 13.4 |
| 80° | 15.3 | 17.5 | 17.5 | 15.3 | 13.2 | 12.3 | 11.5 | 11.5 |
| 82.5° | 12.3 | 13.4 | 11.5 | 10.4 | 9.9 | 9.6 | 9.1 | 9.1 |
| 85° | 10.1 | 11.0 | 8.5 | 7.7 | 7.4 | 7.1 | 6.6 | 6.6 |
| 87.5° | 8.0 | 6.9 | 4.4 | 4.1 | 4.1 | 3.9 | 3.9 | 4.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 97.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 100° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 102.5° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 105° | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| 107.5° | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |



REPORT NUMBER: P173601

CATALOG NUMBER: ENT-FXX-LED-E1-BL3-7050-ULG-CWB

CANDELA DISTRIBUTION (continued):

| | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|------|------|------|------|------|------|------|------|
| 110° | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| 112.5° | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 |
| 115° | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 |
| 117.5° | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 |
| 120° | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 |
| 122.5° | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 |
| 125° | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 |
| 127.5° | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 |
| 130° | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 |
| 132.5° | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 |
| 135° | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 |
| 137.5° | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 |
| 140° | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 |
| 142.5° | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 |
| 145° | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 |
| 147.5° | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 |
| 150° | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 |
| 152.5° | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 |
| 155° | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| 157.5° | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1 |
| 160° | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 |
| 162.5° | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 |
| 165° | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 |
| 167.5° | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 |
| 170° | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 |
| 172.5° | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 |
| 175° | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 |
| 177.5° | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 |
| 180° | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 |

(END OF REPORT)