

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: P173595

Luminaire Tested: **ENT-FXX-LED-E1-BL3-7030-CWB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P173595
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33645)
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-BL3-7030-CWB
Description: ENTRI LED LUMINAIRE, EMERGENCY MODE
LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1319.4 lumens
Efficiency: N/A
Efficacy: 239.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.33' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

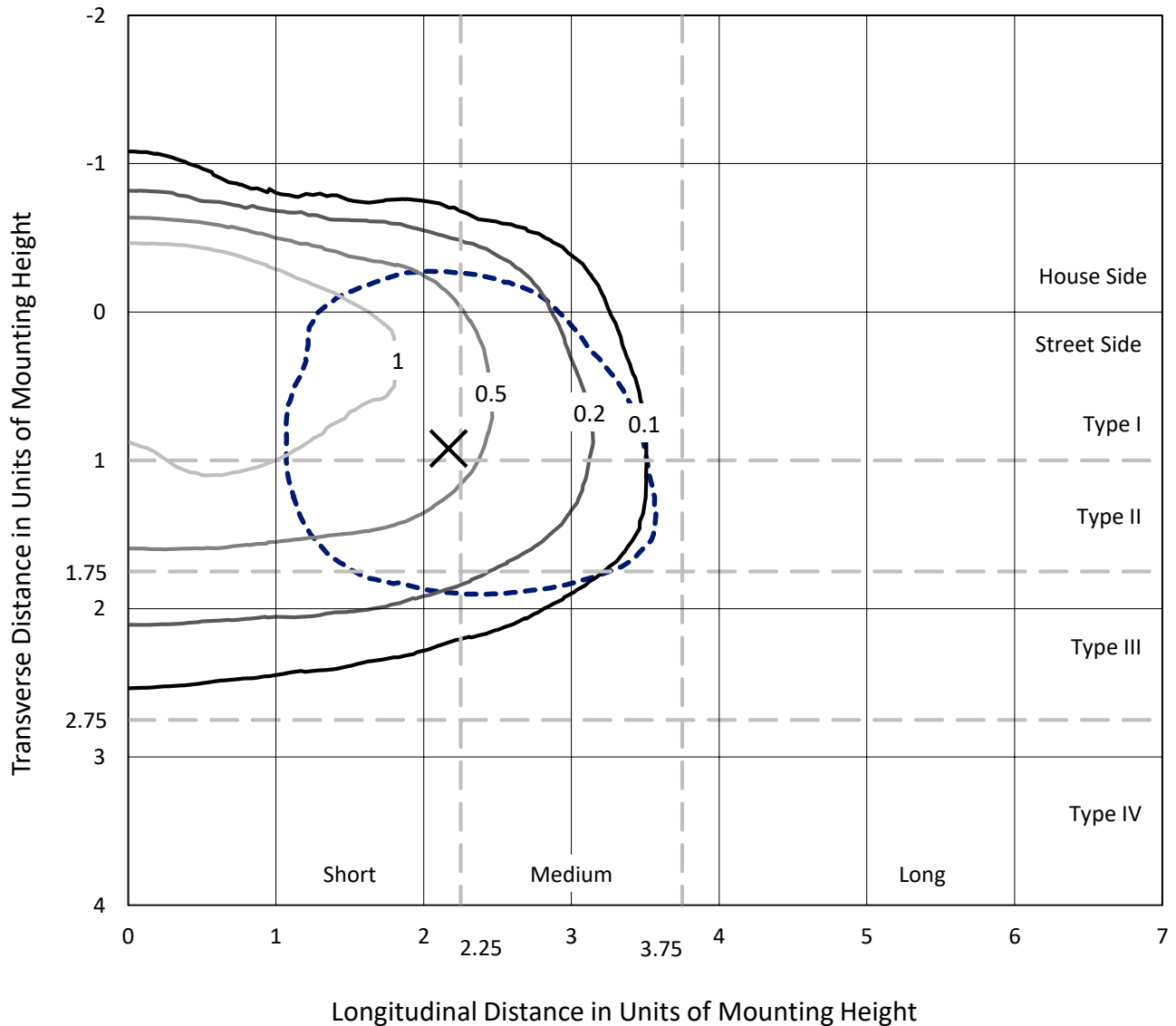
Input Watts (W): 5.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

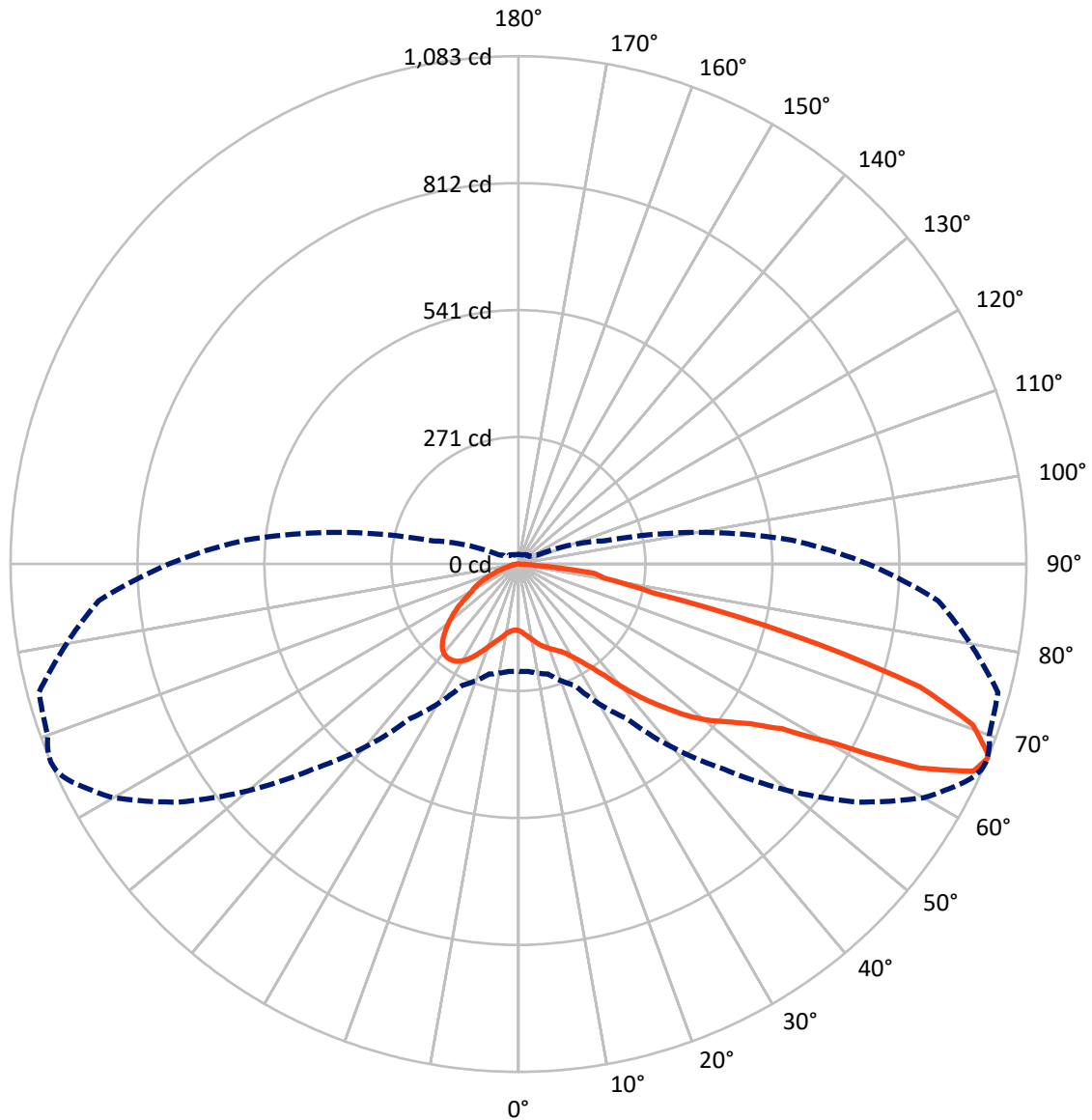
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.8 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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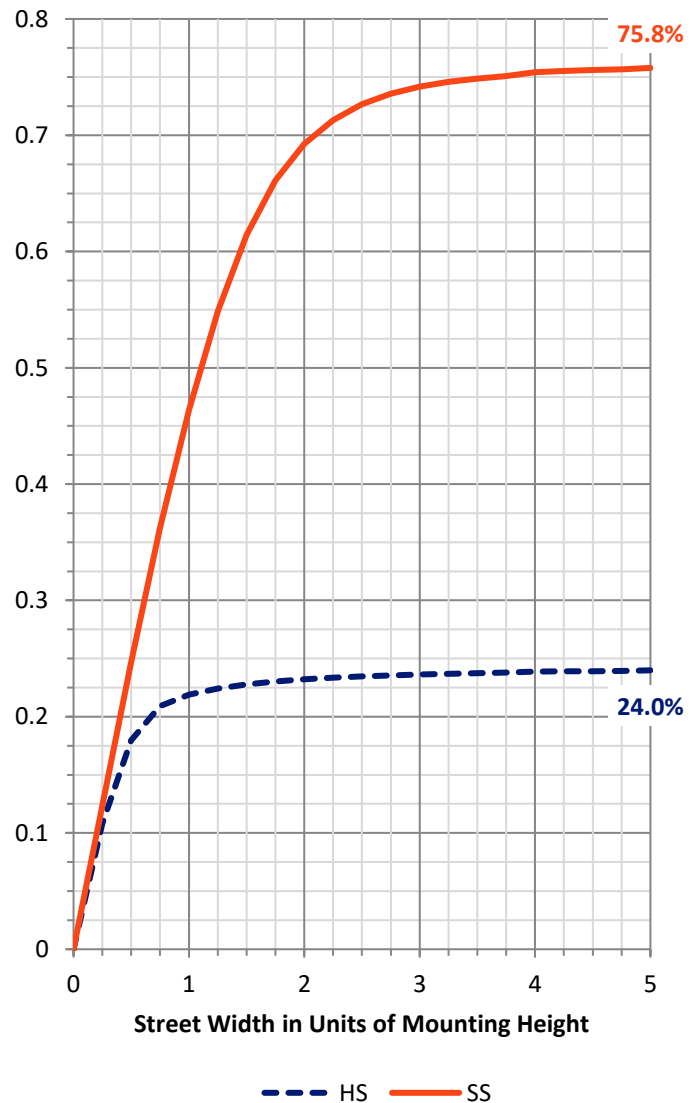
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 320.4 | 0.0 | 320.4 |
| | % Fixture | 24.3 | 0.0 | 24.3 |
| Street Side | Lumens | 999.0 | 0.0 | 999.0 |
| | % Fixture | 75.7 | 0.0 | 75.7 |
| Total | Lumens | 1319.4 | 0.0 | 1319.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 14.3 | 1.1 |
| 10°-20° | 49.5 | 3.8 |
| 20°-30° | 89.8 | 6.8 |
| 30°-40° | 131.3 | 9.9 |
| 40°-50° | 198.8 | 15.1 |
| 50°-60° | 285.2 | 21.6 |
| 60°-70° | 364.4 | 27.6 |
| 70°-80° | 170.1 | 12.9 |
| 80°-90° | 15.9 | 1.2 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 1319.4 | 100.0 |
| 0°-180° | 1319.4 | 100.0 |



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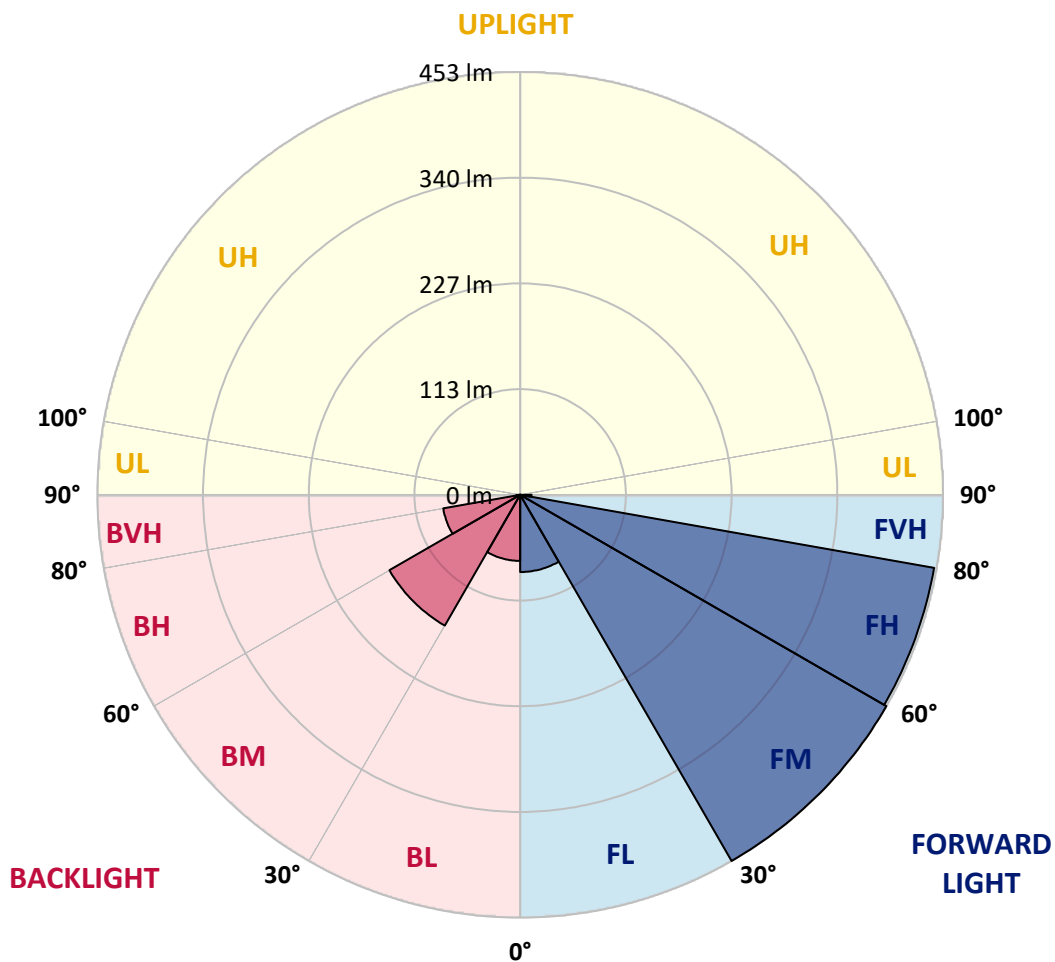
CATALOG NUMBER: ENT-FXX-LED-E1-BL3-7030-CWB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 82.8 | 6.3 | | | |
| FM | (30°-60°) | 453.4 | 34.4 | | | |
| FH | (60°-80°) | 450.7 | 34.2 | | | G0/660 |
| FVH | (80°-90°) | 12.1 | 0.9 | | | G1/100 |
| BL | (0°-30°) | 70.9 | 5.4 | B0/110 | | |
| BM | (30°-60°) | 161.8 | 12.3 | B0/220 | | |
| BH | (60°-80°) | 83.8 | 6.4 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 3.8 | 0.3 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 0° | 142.1 | 142.1 | 142.1 | 142.1 | 142.1 | 142.1 | 142.1 | 142.1 | 142.1 | 142.1 | 142.1 |
| 2.5° | 147.7 | 147.7 | 147.9 | 147.9 | 147.7 | 147.7 | 146.2 | 146.2 | 146.2 | 146.0 | 146.0 |
| 5° | 155.7 | 156.0 | 156.0 | 155.7 | 155.2 | 154.3 | 152.3 | 152.3 | 152.3 | 152.1 | 151.6 |
| 7.5° | 165.0 | 164.8 | 165.0 | 164.3 | 163.3 | 162.1 | 159.4 | 159.2 | 158.7 | 158.7 | 158.2 |
| 10° | 175.3 | 174.5 | 175.3 | 174.3 | 172.3 | 170.1 | 167.0 | 166.0 | 166.0 | 166.0 | 165.0 |
| 12.5° | 185.8 | 185.5 | 186.0 | 184.3 | 180.9 | 178.5 | 175.3 | 174.1 | 173.8 | 173.8 | 173.3 |
| 15° | 197.2 | 197.0 | 195.5 | 192.9 | 188.5 | 186.3 | 182.6 | 181.1 | 180.9 | 180.9 | 180.1 |
| 17.5° | 209.2 | 209.2 | 205.6 | 199.9 | 193.8 | 190.7 | 188.0 | 187.0 | 186.7 | 186.7 | 186.5 |
| 20° | 219.4 | 219.4 | 214.6 | 205.3 | 196.5 | 193.1 | 192.1 | 192.1 | 192.1 | 192.1 | 192.3 |
| 22.5° | 227.0 | 226.3 | 219.7 | 208.2 | 197.5 | 194.5 | 197.0 | 197.2 | 197.2 | 197.7 | 198.0 |
| 25° | 230.5 | 230.2 | 222.4 | 208.7 | 197.2 | 196.8 | 202.1 | 202.9 | 203.4 | 203.8 | 204.6 |
| 27.5° | 230.7 | 230.7 | 222.9 | 208.5 | 197.0 | 200.7 | 208.5 | 210.7 | 211.2 | 212.1 | 213.4 |
| 30° | 228.3 | 228.5 | 221.9 | 208.2 | 198.7 | 208.0 | 218.5 | 222.6 | 223.6 | 225.1 | 227.0 |
| 32.5° | 225.3 | 225.8 | 221.9 | 210.7 | 206.3 | 220.7 | 234.6 | 240.5 | 241.4 | 243.4 | 245.3 |
| 35° | 225.8 | 226.5 | 227.3 | 220.4 | 223.1 | 242.4 | 262.4 | 265.8 | 265.6 | 268.8 | 269.8 |
| 37.5° | 229.0 | 230.7 | 236.1 | 237.3 | 247.5 | 274.4 | 295.4 | 302.7 | 302.7 | 305.6 | 304.7 |
| 40° | 229.5 | 232.1 | 245.6 | 259.7 | 280.0 | 312.9 | 341.8 | 350.3 | 350.3 | 351.5 | 351.0 |
| 42.5° | 240.9 | 243.4 | 262.7 | 287.8 | 316.6 | 355.4 | 387.2 | 394.7 | 396.4 | 395.2 | 396.2 |
| 45° | 261.7 | 263.4 | 287.1 | 318.8 | 352.0 | 396.2 | 431.6 | 438.9 | 440.6 | 439.4 | 438.0 |
| 47.5° | 288.1 | 290.5 | 315.6 | 353.2 | 387.4 | 433.8 | 477.0 | 485.5 | 487.3 | 485.3 | 486.0 |
| 50° | 310.0 | 314.7 | 341.5 | 386.0 | 421.6 | 466.0 | 512.2 | 523.9 | 525.3 | 525.3 | 525.8 |
| 52.5° | 330.0 | 334.2 | 360.1 | 409.6 | 449.2 | 495.1 | 538.3 | 553.4 | 555.1 | 556.4 | 557.3 |
| 55° | 338.3 | 342.5 | 368.4 | 419.9 | 466.0 | 522.2 | 568.6 | 588.8 | 589.8 | 593.0 | 597.1 |
| 57.5° | 338.6 | 342.0 | 367.4 | 419.6 | 474.8 | 546.6 | 609.8 | 641.3 | 645.2 | 649.3 | 656.4 |
| 60° | 315.6 | 319.8 | 345.2 | 407.4 | 482.1 | 573.9 | 672.3 | 730.1 | 735.7 | 747.7 | 763.3 |
| 62.5° | 281.0 | 283.9 | 305.9 | 367.1 | 482.1 | 611.7 | 772.9 | 868.6 | 887.4 | 906.9 | 935.7 |
| 65° | 248.7 | 250.9 | 264.9 | 317.8 | 448.0 | 642.5 | 878.1 | 988.2 | 1008.4 | 1023.1 | 1047.5 |
| 67° | 228.7 | 229.7 | 242.9 | 286.1 | 402.0 | 617.9 | 885.2 | 996.5 | 1013.8 | 1028.9 | 1059.7 |
| 67.5° | 221.9 | 222.6 | 235.1 | 278.0 | 387.9 | 603.0 | 874.4 | 989.6 | 1008.4 | 1023.8 | 1055.1 |
| 70° | 170.6 | 168.5 | 179.2 | 218.7 | 313.4 | 481.1 | 767.7 | 900.5 | 922.0 | 942.5 | 980.4 |
| 72.5° | 101.8 | 98.6 | 105.4 | 126.9 | 203.1 | 338.1 | 582.2 | 738.9 | 766.3 | 791.9 | 841.5 |
| 75° | 61.3 | 61.5 | 66.6 | 81.5 | 110.8 | 212.6 | 376.2 | 480.9 | 506.5 | 530.7 | 569.8 |
| 77.5° | 30.5 | 30.3 | 34.9 | 47.4 | 80.8 | 132.1 | 218.5 | 277.3 | 285.8 | 297.3 | 292.7 |
| 80° | 9.8 | 9.5 | 10.3 | 13.0 | 29.0 | 88.6 | 137.4 | 174.1 | 178.0 | 180.1 | 182.8 |
| 82.5° | 1.5 | 1.7 | 1.9 | 3.2 | 5.4 | 21.2 | 85.4 | 121.1 | 126.5 | 132.8 | 145.0 |
| 85° | 0.0 | 0.0 | 0.3 | 0.3 | 0.7 | 1.7 | 8.1 | 20.8 | 21.7 | 26.4 | 31.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.3 | 0.5 | 0.7 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 75° | 85° | 90° | 95° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0° | 142.1 | 142.1 | 142.1 | 142.1 | 142.1 | 142.1 | 142.1 | 142.1 | 142.1 | 142.1 | 142.1 |
| 2.5° | 145.7 | 145.7 | 145.5 | 145.2 | 145.2 | 145.2 | 144.8 | 144.5 | 143.0 | 142.6 | 141.6 |
| 5° | 151.6 | 151.6 | 151.1 | 150.9 | 150.6 | 150.6 | 149.9 | 148.4 | 146.5 | 145.2 | 143.3 |
| 7.5° | 157.9 | 157.7 | 157.2 | 157.2 | 156.2 | 156.2 | 155.2 | 152.6 | 150.6 | 148.9 | 146.5 |
| 10° | 165.3 | 165.0 | 164.3 | 164.1 | 163.6 | 163.1 | 162.1 | 158.9 | 157.0 | 154.8 | 151.8 |
| 12.5° | 173.3 | 172.8 | 172.3 | 172.1 | 171.6 | 171.1 | 170.1 | 167.2 | 165.3 | 163.1 | 159.6 |
| 15° | 180.4 | 180.1 | 179.7 | 179.4 | 179.4 | 178.9 | 178.2 | 175.5 | 173.6 | 171.1 | 168.5 |
| 17.5° | 186.7 | 186.5 | 186.3 | 186.3 | 186.0 | 186.0 | 185.8 | 183.3 | 182.1 | 180.1 | 177.5 |
| 20° | 192.1 | 192.3 | 192.3 | 192.3 | 192.6 | 192.9 | 193.4 | 192.1 | 190.9 | 189.2 | 187.7 |
| 22.5° | 198.0 | 198.2 | 199.0 | 199.0 | 199.4 | 199.7 | 201.4 | 201.2 | 200.7 | 199.4 | 198.2 |
| 25° | 205.1 | 205.6 | 206.0 | 206.8 | 207.0 | 207.7 | 210.7 | 211.9 | 210.9 | 210.2 | 211.4 |
| 27.5° | 214.3 | 215.3 | 215.8 | 216.8 | 217.3 | 218.2 | 222.6 | 225.3 | 224.6 | 224.8 | 227.5 |
| 30° | 228.3 | 229.2 | 230.7 | 231.2 | 232.9 | 233.4 | 238.5 | 242.7 | 242.7 | 242.2 | 247.0 |
| 32.5° | 246.8 | 247.5 | 249.2 | 250.5 | 251.4 | 252.4 | 257.3 | 261.7 | 262.2 | 263.6 | 265.6 |
| 35° | 271.2 | 271.7 | 272.7 | 274.6 | 274.4 | 274.9 | 277.6 | 282.0 | 284.4 | 287.8 | 282.0 |
| 37.5° | 303.4 | 305.1 | 304.7 | 304.9 | 302.9 | 304.2 | 305.1 | 309.8 | 314.9 | 318.3 | 295.6 |
| 40° | 349.3 | 350.5 | 349.3 | 347.6 | 346.2 | 345.4 | 344.0 | 349.1 | 353.5 | 351.0 | 306.4 |
| 42.5° | 394.0 | 394.5 | 393.5 | 390.6 | 389.4 | 386.9 | 383.0 | 389.4 | 391.8 | 380.3 | 312.0 |
| 45° | 438.2 | 437.5 | 435.8 | 435.3 | 432.8 | 430.4 | 428.2 | 432.3 | 431.3 | 408.9 | 314.4 |
| 47.5° | 484.6 | 483.8 | 482.6 | 480.7 | 478.0 | 477.5 | 475.5 | 475.1 | 468.0 | 433.3 | 313.2 |
| 50° | 525.1 | 525.6 | 522.9 | 523.9 | 522.6 | 520.2 | 518.5 | 519.5 | 502.6 | 454.8 | 310.7 |
| 52.5° | 560.0 | 560.0 | 558.8 | 560.0 | 559.5 | 558.3 | 559.8 | 575.6 | 540.7 | 485.1 | 307.1 |
| 55° | 600.5 | 602.0 | 601.0 | 602.2 | 603.0 | 605.7 | 611.7 | 648.9 | 597.6 | 522.2 | 298.8 |
| 57.5° | 659.8 | 663.5 | 662.5 | 667.4 | 671.8 | 678.9 | 701.1 | 740.2 | 668.1 | 562.9 | 282.5 |
| 60° | 766.3 | 778.2 | 777.7 | 786.3 | 795.1 | 803.1 | 841.9 | 849.5 | 748.0 | 616.2 | 270.2 |
| 62.5° | 943.5 | 953.3 | 957.4 | 966.7 | 972.3 | 973.8 | 1005.0 | 949.6 | 819.2 | 664.5 | 263.4 |
| 65° | 1058.2 | 1062.1 | 1065.8 | 1064.6 | 1061.2 | 1055.6 | 1057.5 | 940.3 | 795.6 | 633.5 | 226.1 |
| 67° | 1071.9 | 1080.0 | 1082.9 | 1080.9 | 1075.8 | 1068.0 | 1058.5 | 898.3 | 745.3 | 585.1 | 191.1 |
| 67.5° | 1068.0 | 1076.3 | 1079.0 | 1077.3 | 1072.9 | 1067.0 | 1055.8 | 882.5 | 728.2 | 569.5 | 182.1 |
| 70° | 1005.2 | 1017.2 | 1028.2 | 1031.9 | 1032.1 | 1031.2 | 1019.9 | 770.4 | 619.8 | 478.2 | 138.2 |
| 72.5° | 857.1 | 872.5 | 895.4 | 888.1 | 899.8 | 892.2 | 866.6 | 526.6 | 424.7 | 341.8 | 96.9 |
| 75° | 578.3 | 585.1 | 603.7 | 582.4 | 584.4 | 571.0 | 471.4 | 305.9 | 263.4 | 222.4 | 58.3 |
| 77.5° | 291.0 | 295.4 | 292.5 | 279.8 | 274.9 | 263.9 | 204.1 | 66.4 | 66.4 | 79.1 | 30.5 |
| 80° | 184.5 | 186.3 | 188.2 | 191.1 | 194.8 | 195.3 | 141.6 | 19.5 | 17.6 | 18.3 | 16.6 |
| 82.5° | 151.4 | 156.0 | 162.1 | 163.3 | 164.8 | 166.0 | 97.6 | 10.7 | 8.8 | 9.8 | 11.7 |
| 85° | 35.2 | 38.1 | 36.4 | 32.2 | 34.4 | 26.6 | 13.7 | 4.4 | 3.9 | 4.9 | 8.1 |
| 87.5° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.0 | 1.7 | 4.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: ENT-FXX-LED-E1-BL3-7030-CWB

CANDELA DISTRIBUTION (continued):

| | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 142.1 | 142.1 | 142.1 | 142.1 | 142.1 | 142.1 | 142.1 | 142.1 |
| 2.5° | 140.6 | 139.9 | 138.9 | 138.7 | 138.4 | 137.9 | 137.7 | 137.4 |
| 5° | 141.4 | 139.9 | 138.4 | 137.4 | 137.0 | 136.5 | 136.0 | 136.0 |
| 7.5° | 144.3 | 142.6 | 140.4 | 139.4 | 138.4 | 137.7 | 137.2 | 137.2 |
| 10° | 149.2 | 147.2 | 144.5 | 143.3 | 142.1 | 141.4 | 140.9 | 140.4 |
| 12.5° | 156.5 | 154.0 | 150.9 | 148.9 | 147.7 | 147.4 | 147.0 | 146.7 |
| 15° | 165.5 | 162.8 | 159.4 | 157.4 | 155.5 | 155.0 | 154.5 | 154.3 |
| 17.5° | 174.5 | 172.3 | 169.7 | 166.3 | 162.3 | 159.2 | 157.7 | 157.4 |
| 20° | 184.8 | 183.8 | 179.7 | 172.1 | 163.6 | 157.0 | 154.3 | 154.3 |
| 22.5° | 197.7 | 195.0 | 185.0 | 171.6 | 158.9 | 149.6 | 146.0 | 146.0 |
| 25° | 211.9 | 202.9 | 184.3 | 166.3 | 150.6 | 139.2 | 134.3 | 134.3 |
| 27.5° | 224.3 | 205.1 | 179.9 | 157.2 | 138.2 | 125.7 | 120.1 | 119.9 |
| 30° | 234.1 | 203.8 | 172.1 | 144.5 | 123.5 | 109.4 | 103.0 | 103.0 |
| 32.5° | 239.5 | 199.7 | 161.4 | 129.6 | 105.7 | 89.6 | 81.8 | 82.0 |
| 35° | 240.9 | 192.6 | 147.2 | 109.9 | 84.2 | 68.3 | 61.3 | 61.3 |
| 37.5° | 239.5 | 181.4 | 129.6 | 88.1 | 63.0 | 51.7 | 46.4 | 45.9 |
| 40° | 234.6 | 164.5 | 106.2 | 64.5 | 46.9 | 40.3 | 38.1 | 37.6 |
| 42.5° | 224.8 | 144.3 | 79.8 | 46.1 | 37.6 | 34.9 | 34.4 | 34.2 |
| 45° | 209.4 | 116.9 | 55.4 | 36.1 | 33.7 | 33.0 | 33.0 | 32.7 |
| 47.5° | 190.2 | 89.4 | 39.5 | 32.0 | 31.7 | 31.7 | 31.7 | 31.7 |
| 50° | 168.7 | 63.2 | 32.2 | 30.3 | 30.0 | 30.5 | 30.8 | 30.8 |
| 52.5° | 146.5 | 44.2 | 29.5 | 29.0 | 28.6 | 29.3 | 29.5 | 29.5 |
| 55° | 122.3 | 34.7 | 28.3 | 27.8 | 27.1 | 27.3 | 27.8 | 27.8 |
| 57.5° | 97.4 | 30.8 | 27.8 | 27.1 | 25.6 | 25.6 | 26.1 | 26.1 |
| 60° | 77.4 | 29.5 | 27.6 | 25.9 | 23.9 | 23.9 | 24.4 | 24.7 |
| 62.5° | 64.7 | 29.3 | 27.6 | 24.7 | 23.2 | 22.5 | 23.0 | 23.0 |
| 65° | 53.9 | 29.3 | 26.8 | 24.7 | 22.0 | 21.0 | 21.5 | 21.5 |
| 67° | 45.2 | 28.8 | 26.4 | 24.7 | 21.5 | 20.3 | 20.3 | 20.3 |
| 67.5° | 42.7 | 28.6 | 26.6 | 24.7 | 21.2 | 20.0 | 19.8 | 19.8 |
| 70° | 32.0 | 25.9 | 26.6 | 24.9 | 20.8 | 18.3 | 17.8 | 17.8 |
| 72.5° | 24.9 | 23.7 | 25.9 | 25.6 | 20.3 | 16.8 | 15.9 | 15.6 |
| 75° | 20.3 | 21.5 | 26.1 | 24.9 | 19.0 | 15.4 | 13.9 | 13.7 |
| 77.5° | 17.3 | 18.3 | 22.0 | 20.0 | 15.9 | 13.7 | 12.2 | 11.9 |
| 80° | 13.7 | 15.6 | 15.6 | 13.7 | 11.7 | 11.0 | 10.3 | 10.3 |
| 82.5° | 11.0 | 11.9 | 10.3 | 9.3 | 8.8 | 8.5 | 8.1 | 8.1 |
| 85° | 9.0 | 9.8 | 7.6 | 6.8 | 6.6 | 6.3 | 5.9 | 5.9 |
| 87.5° | 7.1 | 6.1 | 3.9 | 3.7 | 3.7 | 3.4 | 3.4 | 3.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)