

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: P139583

Luminaire Tested: **ENT-F01-LED-E1-BL3-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P139583
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-F01-LED-E1-BL3-8030
Description: ENTRI LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (7) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1882.8 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.17' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

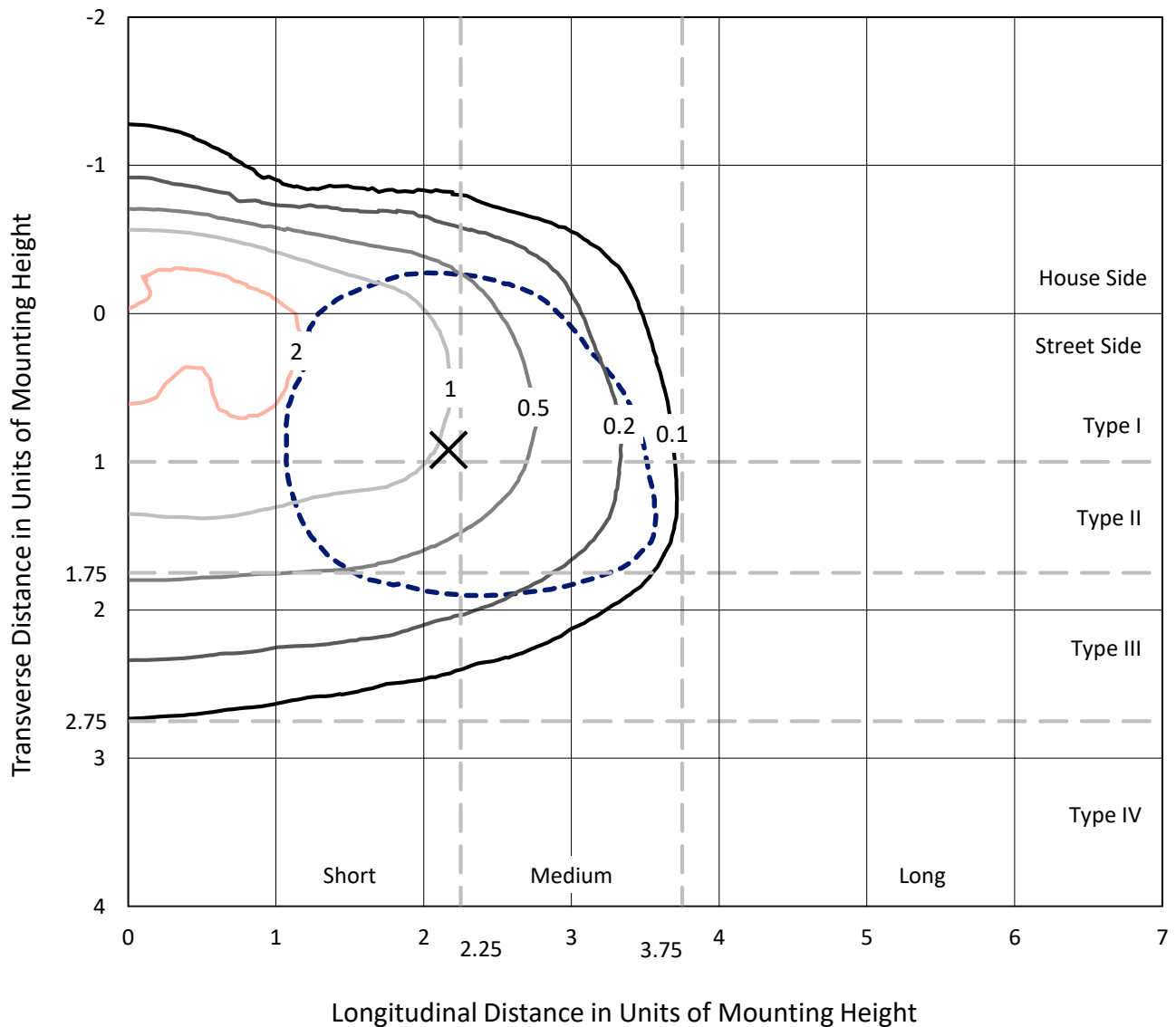
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

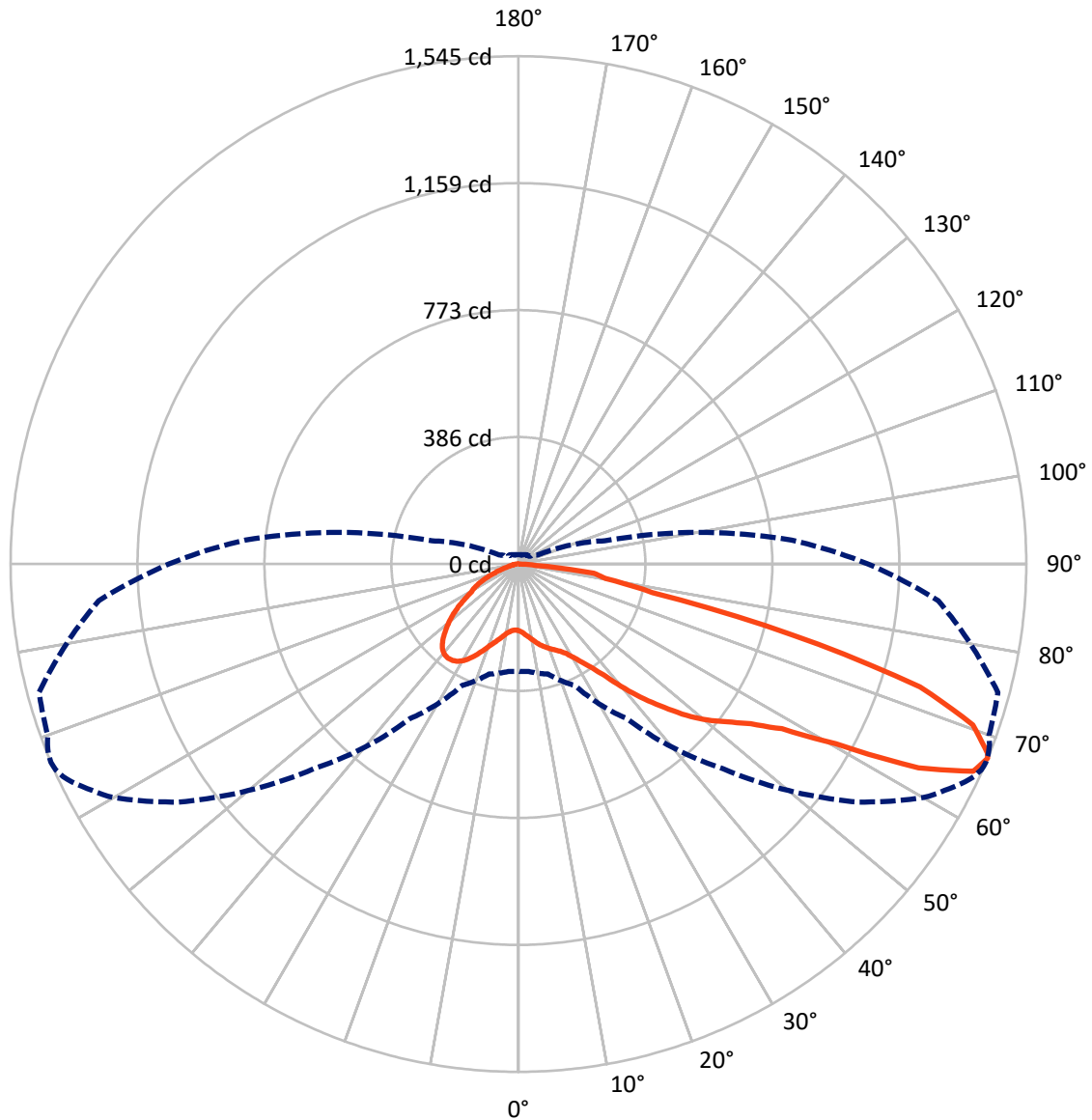
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.6 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 | 457.2 | 0.0 | 457.2 |
| | % Fixture | 24.3 | 0.0 | 24.3 |
| Street Side | Lumens | 1425.7 | 0.0 | 1425.7 |
| | % Fixture | 75.7 | 0.0 | 75.7 |
| Total | Lumens | 1882.8 | 0.0 | 1882.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 20.4 | 1.1 |
| 10°-20° | 70.7 | 3.8 |
| 20°-30° | 128.1 | 6.8 |
| 30°-40° | 187.3 | 9.9 |
| 40°-50° | 283.8 | 15.1 |
| 50°-60° | 407.0 | 21.6 |
| 60°-70° | 520.1 | 27.6 |
| 70°-80° | 242.8 | 12.9 |
| 80°-90° | 22.7 | 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° | 1882.8 | 100.0 |
| 0°-180° | 1882.8 | 100.0 |



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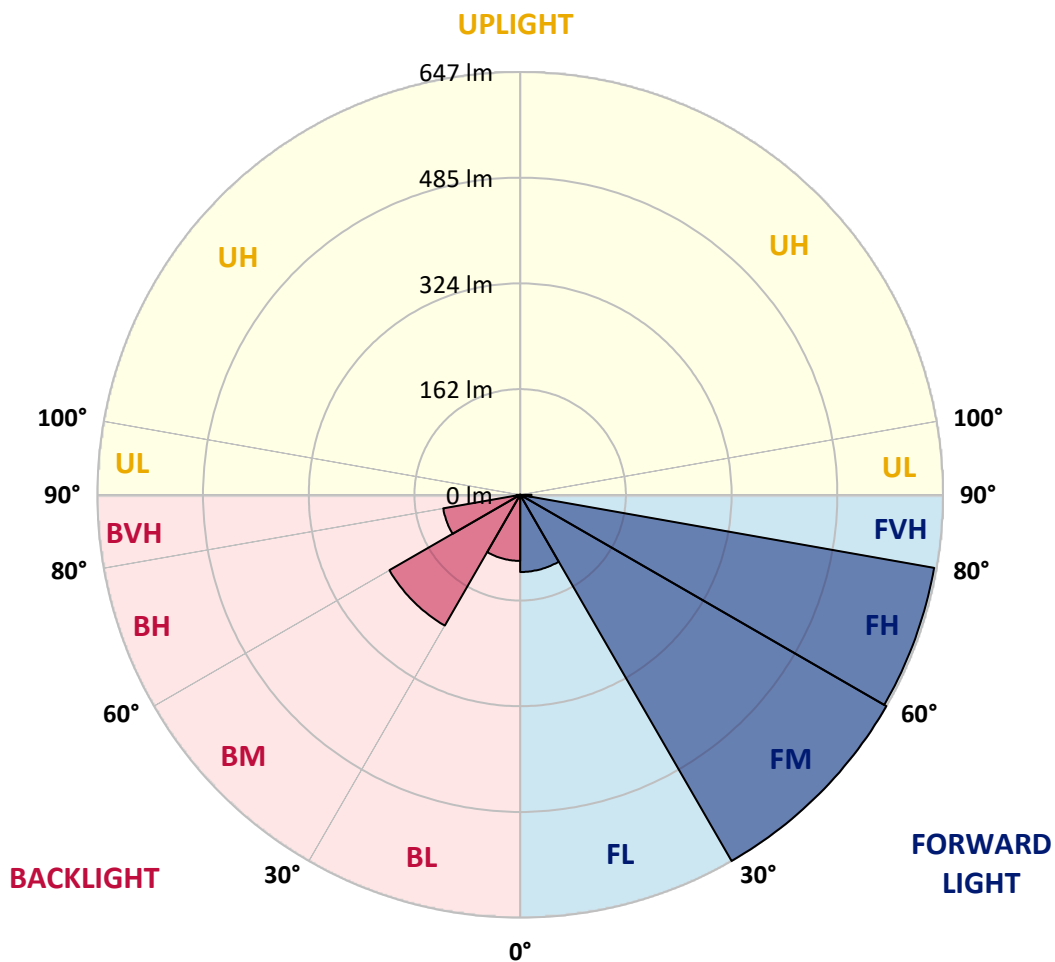
CATALOG NUMBER: ENT-F01-LED-E1-BL3-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 118.1 | 6.3 | | | |
| FM | (30°-60°) | 647.1 | 34.4 | | | |
| FH | (60°-80°) | 643.2 | 34.2 | | | G0/660 |
| FVH | (80°-90°) | 17.3 | 0.9 | | | G1/100 |
| BL | (0°-30°) | 101.1 | 5.4 | B0/110 | | |
| BM | (30°-60°) | 230.9 | 12.3 | B1/1000 | | |
| BH | (60°-80°) | 119.6 | 6.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 5.5 | 0.3 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 0° | 202.8 | 202.8 | 202.8 | 202.8 | 202.8 | 202.8 | 202.8 | 202.8 | 202.8 | 202.8 | 202.8 |
| 2.5° | 210.8 | 210.8 | 211.1 | 211.1 | 210.8 | 210.8 | 208.7 | 208.7 | 208.7 | 208.3 | 208.3 |
| 5° | 222.3 | 222.6 | 222.6 | 222.3 | 221.6 | 220.2 | 217.4 | 217.4 | 217.4 | 217.0 | 216.3 |
| 7.5° | 235.5 | 235.1 | 235.5 | 234.5 | 233.1 | 231.3 | 227.5 | 227.1 | 226.4 | 226.4 | 225.7 |
| 10° | 250.1 | 249.1 | 250.1 | 248.7 | 245.9 | 242.8 | 238.3 | 236.9 | 236.9 | 236.9 | 235.5 |
| 12.5° | 265.1 | 264.8 | 265.5 | 263.0 | 258.1 | 254.7 | 250.1 | 248.4 | 248.0 | 248.0 | 247.3 |
| 15° | 281.5 | 281.1 | 279.0 | 275.2 | 268.9 | 265.8 | 260.6 | 258.5 | 258.1 | 258.1 | 257.1 |
| 17.5° | 298.6 | 298.6 | 293.3 | 285.3 | 276.6 | 272.1 | 268.2 | 266.8 | 266.5 | 266.5 | 266.2 |
| 20° | 313.2 | 313.2 | 306.2 | 293.0 | 280.4 | 275.6 | 274.2 | 274.2 | 274.2 | 274.2 | 274.5 |
| 22.5° | 324.0 | 322.9 | 313.5 | 297.2 | 281.8 | 277.6 | 281.1 | 281.5 | 281.5 | 282.2 | 282.5 |
| 25° | 328.9 | 328.5 | 317.4 | 297.9 | 281.5 | 280.8 | 288.4 | 289.5 | 290.2 | 290.9 | 291.9 |
| 27.5° | 329.2 | 329.2 | 318.1 | 297.5 | 281.1 | 286.4 | 297.5 | 300.6 | 301.3 | 302.7 | 304.5 |
| 30° | 325.7 | 326.1 | 316.7 | 297.2 | 283.6 | 296.8 | 311.8 | 317.7 | 319.1 | 321.2 | 324.0 |
| 32.5° | 321.5 | 322.2 | 316.7 | 300.6 | 294.4 | 314.9 | 334.8 | 343.1 | 344.5 | 347.3 | 350.1 |
| 35° | 322.2 | 323.3 | 324.3 | 314.6 | 318.4 | 345.9 | 374.5 | 379.4 | 379.0 | 383.6 | 384.9 |
| 37.5° | 326.8 | 329.2 | 336.9 | 338.6 | 353.2 | 391.6 | 421.5 | 432.0 | 432.0 | 436.2 | 434.8 |
| 40° | 327.5 | 331.3 | 350.5 | 370.7 | 399.6 | 446.6 | 487.7 | 499.9 | 499.9 | 501.6 | 501.0 |
| 42.5° | 343.8 | 347.3 | 374.8 | 410.7 | 451.8 | 507.2 | 552.5 | 563.3 | 565.7 | 564.0 | 565.4 |
| 45° | 373.5 | 375.9 | 409.7 | 455.0 | 502.3 | 565.4 | 615.9 | 626.4 | 628.8 | 627.1 | 625.0 |
| 47.5° | 411.1 | 414.6 | 450.4 | 504.1 | 552.9 | 619.0 | 680.7 | 692.9 | 695.3 | 692.6 | 693.6 |
| 50° | 442.4 | 449.0 | 487.4 | 550.8 | 601.6 | 665.0 | 730.9 | 747.6 | 749.7 | 749.7 | 750.4 |
| 52.5° | 471.0 | 476.9 | 513.8 | 584.6 | 641.0 | 706.5 | 768.2 | 789.7 | 792.2 | 793.9 | 795.3 |
| 55° | 482.8 | 488.8 | 525.7 | 599.2 | 665.0 | 745.2 | 811.3 | 840.3 | 841.7 | 846.2 | 852.1 |
| 57.5° | 483.2 | 488.1 | 524.3 | 598.8 | 677.6 | 780.0 | 870.2 | 915.2 | 920.7 | 926.7 | 936.8 |
| 60° | 450.4 | 456.4 | 492.6 | 581.4 | 688.0 | 819.0 | 959.4 | 1042.0 | 1050.0 | 1067.1 | 1089.3 |
| 62.5° | 401.0 | 405.2 | 436.5 | 523.9 | 688.0 | 873.0 | 1102.9 | 1239.5 | 1266.3 | 1294.2 | 1335.3 |
| 65° | 355.0 | 358.1 | 378.0 | 453.6 | 639.3 | 916.9 | 1253.1 | 1410.2 | 1439.1 | 1460.0 | 1494.8 |
| 67° | 326.4 | 327.8 | 346.6 | 408.3 | 573.8 | 881.7 | 1263.2 | 1422.0 | 1446.8 | 1468.4 | 1512.3 |
| 67.5° | 316.7 | 317.7 | 335.5 | 396.8 | 553.6 | 860.5 | 1247.9 | 1412.3 | 1439.1 | 1461.1 | 1505.6 |
| 70° | 243.5 | 240.4 | 255.7 | 312.1 | 447.3 | 686.6 | 1095.6 | 1285.1 | 1315.8 | 1345.0 | 1399.0 |
| 72.5° | 145.3 | 140.7 | 150.5 | 181.2 | 289.8 | 482.5 | 830.9 | 1054.5 | 1093.5 | 1130.1 | 1200.8 |
| 75° | 87.4 | 87.8 | 95.1 | 116.4 | 158.2 | 303.4 | 536.8 | 686.3 | 722.9 | 757.4 | 813.1 |
| 77.5° | 43.5 | 43.2 | 49.8 | 67.6 | 115.3 | 188.5 | 311.8 | 395.7 | 407.9 | 424.3 | 417.7 |
| 80° | 13.9 | 13.6 | 14.6 | 18.5 | 41.5 | 126.5 | 196.1 | 248.4 | 254.0 | 257.1 | 260.9 |
| 82.5° | 2.1 | 2.4 | 2.8 | 4.5 | 7.7 | 30.3 | 121.9 | 172.8 | 180.5 | 189.5 | 206.9 |
| 85° | 0.0 | 0.0 | 0.3 | 0.3 | 1.0 | 2.4 | 11.5 | 29.6 | 31.0 | 37.6 | 44.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.3 | 0.7 | 1.0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 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-F01-LED-E1-BL3-8030

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 75° | 85° | 90° | 95° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0° | 202.8 | 202.8 | 202.8 | 202.8 | 202.8 | 202.8 | 202.8 | 202.8 | 202.8 | 202.8 | 202.8 |
| 2.5° | 208.0 | 208.0 | 207.6 | 207.3 | 207.3 | 207.3 | 206.6 | 206.2 | 204.1 | 203.4 | 202.1 |
| 5° | 216.3 | 216.3 | 215.6 | 215.3 | 214.9 | 214.9 | 213.9 | 211.8 | 209.0 | 207.3 | 204.5 |
| 7.5° | 225.4 | 225.0 | 224.3 | 224.3 | 223.0 | 223.0 | 221.6 | 217.7 | 214.9 | 212.5 | 209.0 |
| 10° | 235.8 | 235.5 | 234.5 | 234.1 | 233.4 | 232.7 | 231.3 | 226.8 | 224.0 | 220.9 | 216.7 |
| 12.5° | 247.3 | 246.6 | 245.9 | 245.6 | 244.9 | 244.2 | 242.8 | 238.6 | 235.8 | 232.7 | 227.8 |
| 15° | 257.4 | 257.1 | 256.4 | 256.1 | 256.1 | 255.4 | 254.3 | 250.5 | 247.7 | 244.2 | 240.4 |
| 17.5° | 266.5 | 266.2 | 265.8 | 265.8 | 265.5 | 265.5 | 265.1 | 261.6 | 259.9 | 257.1 | 253.3 |
| 20° | 274.2 | 274.5 | 274.5 | 274.5 | 274.9 | 275.2 | 275.9 | 274.2 | 272.4 | 270.0 | 267.9 |
| 22.5° | 282.5 | 282.9 | 283.9 | 283.9 | 284.6 | 285.0 | 287.4 | 287.1 | 286.4 | 284.6 | 282.9 |
| 25° | 292.6 | 293.3 | 294.0 | 295.1 | 295.4 | 296.5 | 300.6 | 302.4 | 301.0 | 299.9 | 301.7 |
| 27.5° | 305.9 | 307.3 | 308.0 | 309.4 | 310.0 | 311.4 | 317.7 | 321.5 | 320.5 | 320.8 | 324.7 |
| 30° | 325.7 | 327.1 | 329.2 | 329.9 | 332.3 | 333.0 | 340.4 | 346.3 | 346.3 | 345.6 | 352.5 |
| 32.5° | 352.2 | 353.2 | 355.7 | 357.4 | 358.8 | 360.2 | 367.2 | 373.5 | 374.1 | 376.2 | 379.0 |
| 35° | 387.0 | 387.7 | 389.1 | 391.9 | 391.6 | 392.3 | 396.1 | 402.4 | 405.8 | 410.7 | 402.4 |
| 37.5° | 433.0 | 435.5 | 434.8 | 435.1 | 432.3 | 434.1 | 435.5 | 442.1 | 449.4 | 454.3 | 421.9 |
| 40° | 498.5 | 500.3 | 498.5 | 496.1 | 494.0 | 492.9 | 490.9 | 498.2 | 504.4 | 501.0 | 437.2 |
| 42.5° | 562.3 | 563.0 | 561.6 | 557.4 | 555.6 | 552.2 | 546.6 | 555.6 | 559.1 | 542.8 | 445.2 |
| 45° | 625.3 | 624.3 | 621.8 | 621.1 | 617.7 | 614.2 | 611.0 | 617.0 | 615.6 | 583.5 | 448.7 |
| 47.5° | 691.5 | 690.5 | 688.7 | 685.9 | 682.1 | 681.4 | 678.6 | 677.9 | 667.8 | 618.4 | 447.0 |
| 50° | 749.3 | 750.0 | 746.2 | 747.6 | 745.9 | 742.4 | 739.9 | 741.3 | 717.3 | 649.0 | 443.5 |
| 52.5° | 799.2 | 799.2 | 797.4 | 799.2 | 798.5 | 796.7 | 798.8 | 821.5 | 771.6 | 692.2 | 438.2 |
| 55° | 857.0 | 859.1 | 857.7 | 859.4 | 860.5 | 864.3 | 873.0 | 926.0 | 852.8 | 745.2 | 426.4 |
| 57.5° | 941.6 | 946.9 | 945.5 | 952.4 | 958.7 | 968.8 | 1000.5 | 1056.3 | 953.5 | 803.3 | 403.1 |
| 60° | 1093.5 | 1110.6 | 1109.9 | 1122.1 | 1134.6 | 1146.1 | 1201.5 | 1212.3 | 1067.4 | 879.3 | 385.6 |
| 62.5° | 1346.4 | 1360.4 | 1366.3 | 1379.5 | 1387.5 | 1389.6 | 1434.2 | 1355.2 | 1169.1 | 948.3 | 375.9 |
| 65° | 1510.2 | 1515.7 | 1521.0 | 1519.2 | 1514.4 | 1506.3 | 1509.1 | 1341.9 | 1135.3 | 904.0 | 322.6 |
| 67° | 1529.7 | 1541.2 | 1545.4 | 1542.6 | 1535.3 | 1524.1 | 1510.5 | 1282.0 | 1063.6 | 835.0 | 272.8 |
| 67.5° | 1524.1 | 1536.0 | 1539.8 | 1537.3 | 1531.1 | 1522.7 | 1506.7 | 1259.3 | 1039.2 | 812.7 | 259.9 |
| 70° | 1434.6 | 1451.6 | 1467.3 | 1472.6 | 1472.9 | 1471.5 | 1455.5 | 1099.4 | 884.5 | 682.5 | 197.2 |
| 72.5° | 1223.1 | 1245.1 | 1277.8 | 1267.4 | 1284.1 | 1273.3 | 1236.7 | 751.4 | 606.2 | 487.7 | 138.3 |
| 75° | 825.3 | 835.0 | 861.5 | 831.2 | 834.0 | 814.8 | 672.7 | 436.5 | 375.9 | 317.4 | 83.3 |
| 77.5° | 415.3 | 421.5 | 417.3 | 399.2 | 392.3 | 376.6 | 291.2 | 94.8 | 94.8 | 112.9 | 43.5 |
| 80° | 263.4 | 265.8 | 268.6 | 272.8 | 278.0 | 278.7 | 202.1 | 27.9 | 25.1 | 26.1 | 23.7 |
| 82.5° | 216.0 | 222.6 | 231.3 | 233.1 | 235.1 | 236.9 | 139.3 | 15.3 | 12.5 | 13.9 | 16.7 |
| 85° | 50.2 | 54.3 | 51.9 | 46.0 | 49.1 | 38.0 | 19.5 | 6.3 | 5.6 | 7.0 | 11.5 |
| 87.5° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.4 | 2.4 | 5.9 |
| 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-F01-LED-E1-BL3-8030

CANDELA DISTRIBUTION (continued):

| | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 202.8 | 202.8 | 202.8 | 202.8 | 202.8 | 202.8 | 202.8 | 202.8 |
| 2.5° | 200.7 | 199.6 | 198.2 | 197.9 | 197.5 | 196.8 | 196.5 | 196.1 |
| 5° | 201.7 | 199.6 | 197.5 | 196.1 | 195.4 | 194.7 | 194.0 | 194.0 |
| 7.5° | 205.9 | 203.4 | 200.3 | 198.9 | 197.5 | 196.5 | 195.8 | 195.8 |
| 10° | 212.9 | 210.1 | 206.2 | 204.5 | 202.8 | 201.7 | 201.0 | 200.3 |
| 12.5° | 223.3 | 219.8 | 215.3 | 212.5 | 210.8 | 210.4 | 209.7 | 209.4 |
| 15° | 236.2 | 232.4 | 227.5 | 224.7 | 221.9 | 221.2 | 220.5 | 220.2 |
| 17.5° | 249.1 | 245.9 | 242.1 | 237.2 | 231.7 | 227.1 | 225.0 | 224.7 |
| 20° | 263.7 | 262.3 | 256.4 | 245.6 | 233.4 | 224.0 | 220.2 | 220.2 |
| 22.5° | 282.2 | 278.3 | 264.1 | 244.9 | 226.8 | 213.5 | 208.3 | 208.3 |
| 25° | 302.4 | 289.5 | 263.0 | 237.2 | 214.9 | 198.6 | 191.6 | 191.6 |
| 27.5° | 320.1 | 292.6 | 256.7 | 224.3 | 197.2 | 179.4 | 171.4 | 171.0 |
| 30° | 334.1 | 290.9 | 245.6 | 206.2 | 176.3 | 156.1 | 147.0 | 147.0 |
| 32.5° | 341.7 | 285.0 | 230.3 | 185.0 | 150.8 | 127.9 | 116.7 | 117.1 |
| 35° | 343.8 | 274.9 | 210.1 | 156.8 | 120.2 | 97.5 | 87.4 | 87.4 |
| 37.5° | 341.7 | 258.8 | 185.0 | 125.8 | 89.9 | 73.9 | 66.2 | 65.5 |
| 40° | 334.8 | 234.8 | 151.5 | 92.0 | 66.9 | 57.5 | 54.3 | 53.6 |
| 42.5° | 320.8 | 205.9 | 113.9 | 65.8 | 53.6 | 49.8 | 49.1 | 48.8 |
| 45° | 298.9 | 166.9 | 79.1 | 51.6 | 48.1 | 47.0 | 47.0 | 46.7 |
| 47.5° | 271.4 | 127.5 | 56.4 | 45.6 | 45.3 | 45.3 | 45.3 | 45.3 |
| 50° | 240.7 | 90.2 | 46.0 | 43.2 | 42.8 | 43.5 | 43.9 | 43.9 |
| 52.5° | 209.0 | 63.1 | 42.2 | 41.5 | 40.8 | 41.8 | 42.2 | 42.2 |
| 55° | 174.5 | 49.5 | 40.4 | 39.7 | 38.7 | 39.0 | 39.7 | 39.7 |
| 57.5° | 139.0 | 43.9 | 39.7 | 38.7 | 36.6 | 36.6 | 37.3 | 37.3 |
| 60° | 110.4 | 42.2 | 39.4 | 36.9 | 34.1 | 34.1 | 34.8 | 35.2 |
| 62.5° | 92.3 | 41.8 | 39.4 | 35.2 | 33.1 | 32.0 | 32.7 | 32.7 |
| 65° | 77.0 | 41.8 | 38.3 | 35.2 | 31.4 | 30.0 | 30.7 | 30.7 |
| 67° | 64.4 | 41.1 | 37.6 | 35.2 | 30.7 | 28.9 | 28.9 | 28.9 |
| 67.5° | 61.0 | 40.8 | 38.0 | 35.2 | 30.3 | 28.6 | 28.2 | 28.2 |
| 70° | 45.6 | 36.9 | 38.0 | 35.5 | 29.6 | 26.1 | 25.4 | 25.4 |
| 72.5° | 35.5 | 33.8 | 36.9 | 36.6 | 28.9 | 24.0 | 22.6 | 22.3 |
| 75° | 28.9 | 30.7 | 37.3 | 35.5 | 27.2 | 21.9 | 19.9 | 19.5 |
| 77.5° | 24.7 | 26.1 | 31.4 | 28.6 | 22.6 | 19.5 | 17.4 | 17.1 |
| 80° | 19.5 | 22.3 | 22.3 | 19.5 | 16.7 | 15.7 | 14.6 | 14.6 |
| 82.5° | 15.7 | 17.1 | 14.6 | 13.2 | 12.5 | 12.2 | 11.5 | 11.5 |
| 85° | 12.9 | 13.9 | 10.8 | 9.8 | 9.4 | 9.1 | 8.4 | 8.4 |
| 87.5° | 10.1 | 8.7 | 5.6 | 5.2 | 5.2 | 4.9 | 4.9 | 5.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)