

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: P139473

Luminaire Tested: **ENC-F02-LED-E1-BL2-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P139473
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33644)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENC-F02-LED-E1-BL2-8030
Description: ENTRI LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3815.5 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.33' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

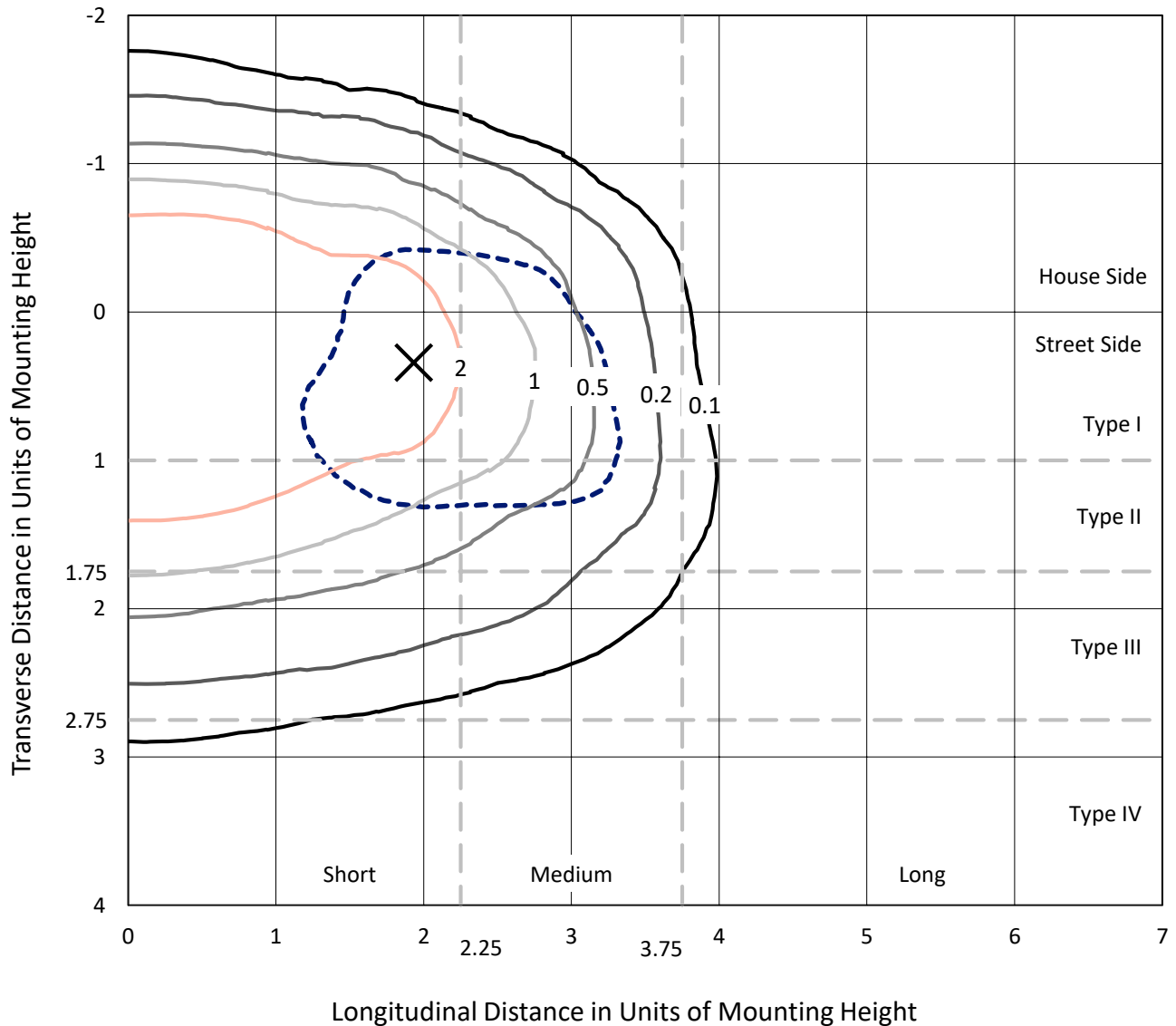
Input Watts (W): 49.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P139473
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Iso-Footcandle Lines of Horizontal Illumination

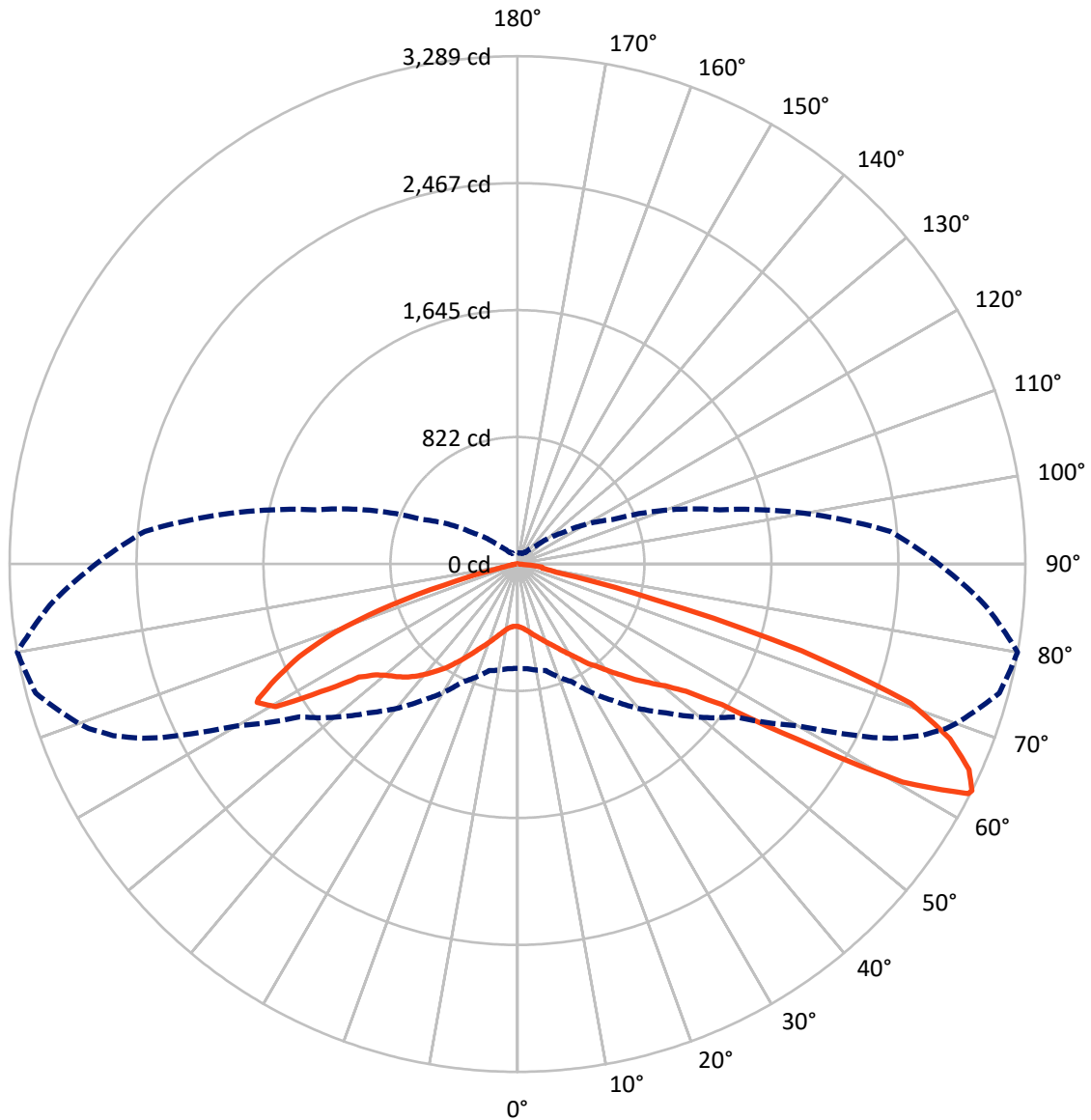
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 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 | 1188.3 | 0.0 | 1188.3 |
| | % Fixture | 31.1 | 0.0 | 31.1 |
| Street Side | Lumens | 2627.2 | 0.0 | 2627.2 |
| | % Fixture | 68.9 | 0.0 | 68.9 |
| Total | Lumens | 3815.5 | 0.0 | 3815.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 40.5 | 1.1 |
| 10°-20° | 138.9 | 3.6 |
| 20°-30° | 261.0 | 6.8 |
| 30°-40° | 414.3 | 10.9 |
| 40°-50° | 625.3 | 16.4 |
| 50°-60° | 878.9 | 23.0 |
| 60°-70° | 1025.5 | 26.9 |
| 70°-80° | 396.4 | 10.4 |
| 80°-90° | 34.5 | 0.9 |
| 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° | 3815.5 | 100.0 |
| 0°-180° | 3815.5 | 100.0 |



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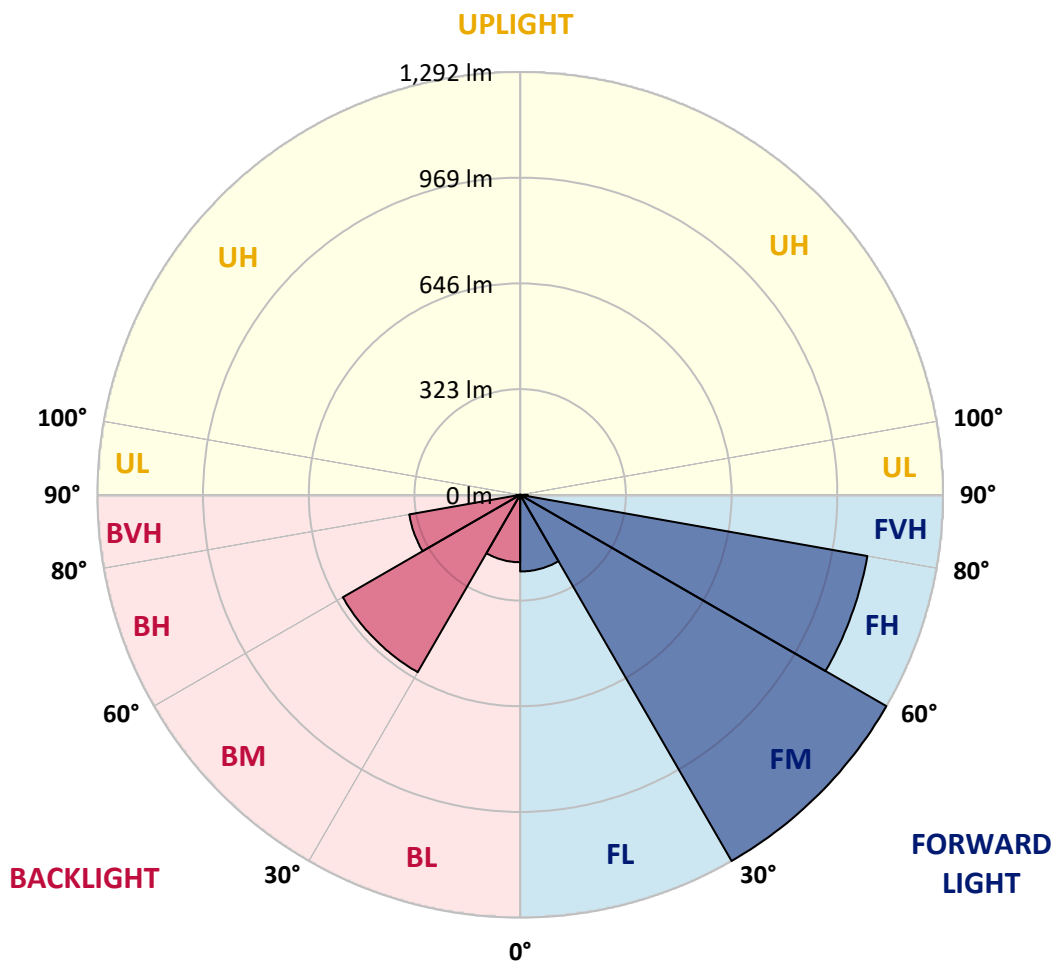
CATALOG NUMBER: ENC-F02-LED-E1-BL2-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 234.3 | 6.1 | | | |
| FM | (30°-60°) | 1292.4 | 33.9 | | | |
| FH | (60°-80°) | 1077.5 | 28.2 | | | G1/1800 |
| FVH | (80°-90°) | 23.0 | 0.6 | | | G1/100 |
| BL | (0°-30°) | 206.1 | 5.4 | B1/500 | | |
| BM | (30°-60°) | 626.2 | 16.4 | B1/1000 | | |
| BH | (60°-80°) | 344.5 | 9.0 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 11.5 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P139473

CATALOG NUMBER: ENC-F02-LED-E1-BL2-8030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 404.1 | 404.1 | 404.1 | 404.1 | 404.1 | 404.1 | 404.1 | 404.1 | 404.1 | 404.1 | 404.1 |
| 2.5° | 424.3 | 422.9 | 423.6 | 422.9 | 422.9 | 421.5 | 417.3 | 417.3 | 416.6 | 417.3 | 416.0 |
| 5° | 447.3 | 446.6 | 445.9 | 444.5 | 444.5 | 441.7 | 434.8 | 433.4 | 434.1 | 432.7 | 429.9 |
| 7.5° | 473.1 | 472.4 | 471.0 | 468.2 | 466.8 | 462.6 | 452.9 | 451.5 | 450.8 | 449.4 | 447.3 |
| 10° | 498.9 | 498.2 | 496.1 | 492.6 | 489.1 | 482.8 | 473.1 | 469.6 | 468.9 | 468.2 | 466.1 |
| 12.5° | 525.3 | 523.2 | 523.9 | 517.7 | 512.1 | 504.4 | 493.3 | 489.8 | 489.1 | 488.4 | 487.7 |
| 15° | 554.6 | 553.9 | 552.5 | 544.2 | 533.7 | 523.2 | 512.1 | 507.9 | 505.1 | 505.8 | 505.1 |
| 17.5° | 582.5 | 581.8 | 576.9 | 565.1 | 551.1 | 539.3 | 525.3 | 522.6 | 522.6 | 521.9 | 521.9 |
| 20° | 602.7 | 602.0 | 597.1 | 582.5 | 564.4 | 551.1 | 540.0 | 540.0 | 539.3 | 540.0 | 540.7 |
| 22.5° | 611.7 | 611.7 | 605.5 | 589.4 | 569.9 | 560.2 | 556.7 | 558.8 | 559.5 | 560.2 | 561.6 |
| 25° | 615.2 | 615.2 | 608.9 | 590.1 | 572.0 | 573.4 | 577.6 | 581.1 | 582.5 | 582.5 | 587.3 |
| 27.5° | 621.5 | 622.2 | 613.8 | 593.6 | 579.0 | 592.2 | 602.7 | 607.6 | 609.6 | 611.0 | 617.3 |
| 30° | 640.3 | 639.6 | 632.6 | 611.0 | 599.9 | 618.7 | 637.5 | 642.4 | 647.3 | 647.3 | 654.2 |
| 32.5° | 668.2 | 667.5 | 663.3 | 646.6 | 641.7 | 665.4 | 682.1 | 692.6 | 691.9 | 693.3 | 698.1 |
| 35° | 705.1 | 705.8 | 708.6 | 704.4 | 708.6 | 732.3 | 751.1 | 755.3 | 756.0 | 756.7 | 757.4 |
| 37.5° | 746.9 | 747.6 | 762.9 | 776.2 | 795.0 | 829.8 | 841.0 | 843.1 | 838.2 | 838.2 | 836.8 |
| 40° | 778.3 | 781.7 | 815.9 | 850.7 | 890.4 | 937.8 | 954.5 | 950.3 | 946.9 | 944.1 | 935.7 |
| 42.5° | 842.4 | 844.4 | 880.7 | 930.8 | 986.6 | 1052.1 | 1081.3 | 1067.4 | 1066.7 | 1054.2 | 1047.9 |
| 45° | 906.5 | 912.0 | 951.0 | 1007.5 | 1074.4 | 1164.9 | 1208.1 | 1196.3 | 1194.2 | 1188.6 | 1171.2 |
| 47.5° | 957.3 | 965.0 | 1008.2 | 1075.1 | 1151.7 | 1256.2 | 1333.6 | 1341.9 | 1337.0 | 1330.8 | 1316.8 |
| 50° | 1000.5 | 1006.8 | 1050.7 | 1123.8 | 1211.6 | 1325.9 | 1436.7 | 1466.6 | 1470.8 | 1468.0 | 1464.5 |
| 52.5° | 1028.4 | 1034.7 | 1077.8 | 1155.9 | 1246.5 | 1377.4 | 1513.3 | 1572.5 | 1585.1 | 1584.4 | 1599.0 |
| 55° | 1029.1 | 1036.0 | 1080.6 | 1166.3 | 1266.0 | 1413.0 | 1584.4 | 1677.7 | 1693.1 | 1711.9 | 1743.2 |
| 57.5° | 990.8 | 997.7 | 1053.5 | 1152.4 | 1271.5 | 1440.8 | 1653.4 | 1817.8 | 1859.6 | 1896.5 | 1982.9 |
| 60° | 884.2 | 886.9 | 948.3 | 1080.6 | 1245.1 | 1434.6 | 1705.6 | 1938.3 | 1997.5 | 2077.7 | 2217.0 |
| 62.5° | 720.4 | 726.0 | 763.6 | 892.5 | 1121.7 | 1379.5 | 1726.5 | 2072.8 | 2170.3 | 2287.4 | 2510.3 |
| 63° | 675.1 | 680.0 | 714.9 | 842.4 | 1079.9 | 1362.1 | 1725.8 | 2094.4 | 2201.7 | 2322.2 | 2562.6 |
| 65° | 521.2 | 522.6 | 548.3 | 644.5 | 886.2 | 1235.3 | 1688.2 | 2063.7 | 2199.6 | 2340.3 | 2592.6 |
| 67.5° | 420.1 | 425.0 | 450.8 | 518.4 | 700.2 | 1037.4 | 1519.6 | 1787.8 | 1880.5 | 2019.1 | 2319.4 |
| 70° | 328.9 | 337.2 | 361.6 | 438.2 | 597.1 | 835.4 | 1278.5 | 1492.4 | 1549.5 | 1615.7 | 1870.7 |
| 72.5° | 217.4 | 219.5 | 223.7 | 266.2 | 416.6 | 650.1 | 1063.9 | 1209.5 | 1231.8 | 1279.2 | 1403.9 |
| 75° | 102.4 | 110.1 | 116.4 | 138.0 | 201.4 | 425.7 | 771.3 | 859.1 | 885.6 | 935.0 | 980.3 |
| 77.5° | 44.6 | 43.9 | 46.7 | 63.4 | 105.9 | 189.5 | 480.1 | 634.7 | 643.8 | 632.6 | 613.1 |
| 80° | 13.9 | 14.6 | 15.3 | 16.7 | 33.4 | 90.6 | 207.6 | 426.4 | 471.0 | 501.0 | 492.6 |
| 82.5° | 1.4 | 0.7 | 2.1 | 4.2 | 7.0 | 13.2 | 78.0 | 200.0 | 251.5 | 308.7 | 381.8 |
| 85° | 0.0 | 0.0 | 0.7 | 0.7 | 1.4 | 2.8 | 4.9 | 20.9 | 34.8 | 40.4 | 80.1 |
| 87.5° | 0.0 | 0.0 | 0.7 | 0.7 | 1.4 | 2.1 | 2.1 | 2.8 | 2.8 | 2.8 | 2.8 |
| 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: ENC-F02-LED-E1-BL2-8030

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 404.1 | 404.1 | 404.1 | 404.1 | 404.1 | 404.1 | 404.1 | 404.1 | 404.1 | 404.1 | 404.1 |
| 2.5° | 415.3 | 415.3 | 413.9 | 414.6 | 413.9 | 413.9 | 412.5 | 411.1 | 410.4 | 406.9 | 404.8 |
| 5° | 429.9 | 429.9 | 429.2 | 427.8 | 427.8 | 427.1 | 423.6 | 420.1 | 418.0 | 413.9 | 409.7 |
| 7.5° | 446.6 | 445.9 | 444.5 | 443.1 | 443.1 | 442.4 | 437.5 | 434.1 | 429.9 | 423.6 | 418.7 |
| 10° | 466.1 | 465.4 | 464.0 | 461.9 | 461.9 | 461.2 | 456.4 | 450.8 | 447.3 | 439.6 | 433.4 |
| 12.5° | 487.0 | 484.9 | 484.2 | 482.8 | 481.4 | 481.4 | 477.3 | 471.7 | 468.9 | 460.5 | 454.3 |
| 15° | 504.4 | 503.0 | 502.3 | 501.6 | 501.0 | 499.6 | 496.1 | 491.2 | 489.1 | 482.1 | 477.3 |
| 17.5° | 521.2 | 521.2 | 521.9 | 520.5 | 519.8 | 518.4 | 516.3 | 514.9 | 512.8 | 506.5 | 503.7 |
| 20° | 540.7 | 540.7 | 542.1 | 541.4 | 540.7 | 542.8 | 542.1 | 541.4 | 541.4 | 535.8 | 533.7 |
| 22.5° | 563.7 | 563.0 | 565.1 | 564.4 | 565.1 | 567.1 | 569.9 | 568.5 | 571.3 | 567.8 | 566.4 |
| 25° | 590.1 | 589.4 | 591.5 | 592.9 | 594.3 | 595.7 | 601.3 | 602.7 | 606.2 | 605.5 | 602.7 |
| 27.5° | 620.1 | 620.8 | 621.5 | 625.0 | 627.1 | 628.5 | 636.1 | 640.3 | 647.3 | 644.5 | 647.3 |
| 30° | 654.9 | 658.4 | 661.2 | 664.7 | 665.4 | 666.8 | 679.3 | 683.5 | 687.0 | 689.1 | 693.3 |
| 32.5° | 703.0 | 705.1 | 705.8 | 710.0 | 711.4 | 713.5 | 726.7 | 732.3 | 737.1 | 737.8 | 745.5 |
| 35° | 761.5 | 762.9 | 765.0 | 767.1 | 769.9 | 768.5 | 783.8 | 792.2 | 798.5 | 799.2 | 807.5 |
| 37.5° | 838.9 | 834.0 | 836.1 | 833.3 | 829.1 | 829.1 | 834.0 | 842.4 | 849.3 | 854.9 | 863.3 |
| 40° | 931.5 | 928.1 | 927.4 | 921.1 | 914.1 | 907.8 | 905.1 | 909.9 | 915.5 | 920.4 | 930.8 |
| 42.5° | 1037.4 | 1034.0 | 1022.1 | 1017.9 | 1006.1 | 999.1 | 980.3 | 982.4 | 992.2 | 994.9 | 1001.2 |
| 45° | 1161.5 | 1148.9 | 1144.7 | 1119.0 | 1114.1 | 1104.3 | 1068.8 | 1066.0 | 1074.4 | 1075.1 | 1070.9 |
| 47.5° | 1302.9 | 1293.8 | 1284.1 | 1266.0 | 1247.2 | 1231.1 | 1176.8 | 1148.2 | 1157.3 | 1156.6 | 1136.4 |
| 50° | 1456.9 | 1455.5 | 1440.8 | 1429.0 | 1412.3 | 1389.3 | 1292.4 | 1240.2 | 1247.2 | 1240.9 | 1204.0 |
| 52.5° | 1603.9 | 1599.7 | 1599.0 | 1590.0 | 1583.7 | 1576.0 | 1458.3 | 1368.4 | 1352.4 | 1339.1 | 1291.7 |
| 55° | 1758.6 | 1769.0 | 1762.0 | 1776.7 | 1787.8 | 1786.4 | 1737.7 | 1606.0 | 1524.5 | 1514.0 | 1441.5 |
| 57.5° | 2016.4 | 2041.4 | 2074.9 | 2076.3 | 2106.2 | 2149.4 | 2237.2 | 2142.5 | 1938.3 | 1897.9 | 1801.1 |
| 60° | 2311.8 | 2376.6 | 2460.2 | 2501.3 | 2565.4 | 2632.3 | 2852.4 | 2867.1 | 2581.4 | 2425.3 | 2247.7 |
| 62.5° | 2608.6 | 2693.6 | 2792.5 | 2856.6 | 2936.0 | 2988.3 | 3221.0 | 3276.7 | 3016.2 | 2728.4 | 2435.8 |
| 63° | 2671.3 | 2758.4 | 2844.1 | 2906.8 | 2973.7 | 3021.7 | 3230.8 | 3289.3 | 3039.9 | 2729.1 | 2423.9 |
| 65° | 2704.0 | 2785.5 | 2852.4 | 2908.2 | 2952.8 | 2985.5 | 3150.6 | 3214.0 | 3008.5 | 2628.1 | 2290.9 |
| 67.5° | 2455.3 | 2586.3 | 2670.6 | 2738.2 | 2783.5 | 2828.7 | 2980.6 | 3020.3 | 2874.7 | 2431.6 | 2088.8 |
| 70° | 2032.4 | 2183.6 | 2316.6 | 2421.9 | 2499.9 | 2568.9 | 2728.4 | 2701.2 | 2575.8 | 2113.2 | 1771.8 |
| 72.5° | 1495.2 | 1626.9 | 1756.5 | 1875.6 | 1977.3 | 2065.1 | 2170.3 | 1924.4 | 1733.5 | 1405.3 | 1226.3 |
| 75° | 1005.4 | 1034.0 | 1093.2 | 1152.4 | 1189.3 | 1214.4 | 1149.6 | 916.2 | 744.1 | 667.5 | 583.9 |
| 77.5° | 593.6 | 574.1 | 576.2 | 561.6 | 551.8 | 549.7 | 461.2 | 256.4 | 135.2 | 138.0 | 144.9 |
| 80° | 473.8 | 452.2 | 429.2 | 403.4 | 386.7 | 368.6 | 300.3 | 164.4 | 58.5 | 47.4 | 49.5 |
| 82.5° | 383.2 | 377.6 | 365.1 | 338.6 | 312.1 | 280.8 | 214.6 | 158.2 | 33.4 | 26.5 | 28.6 |
| 85° | 74.6 | 83.6 | 75.2 | 82.2 | 61.3 | 57.8 | 34.1 | 36.9 | 13.2 | 11.8 | 14.6 |
| 87.5° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 5.6 |
| 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: ENC-F02-LED-E1-BL2-8030

CANDELA DISTRIBUTION (continued):

| | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 404.1 | 404.1 | 404.1 | 404.1 | 404.1 | 404.1 | 404.1 | 404.1 | 404.1 |
| 2.5° | 401.3 | 398.5 | 396.4 | 393.7 | 392.3 | 390.2 | 389.5 | 387.4 | 388.1 |
| 5° | 402.7 | 397.8 | 393.7 | 389.5 | 386.7 | 385.3 | 383.9 | 382.5 | 382.5 |
| 7.5° | 409.7 | 403.4 | 398.5 | 393.7 | 391.6 | 388.8 | 388.1 | 386.0 | 386.0 |
| 10° | 424.3 | 417.3 | 411.1 | 405.5 | 402.7 | 399.2 | 397.8 | 395.7 | 395.7 |
| 12.5° | 445.9 | 439.6 | 432.7 | 424.3 | 418.7 | 414.6 | 411.1 | 409.7 | 409.7 |
| 15° | 470.3 | 465.4 | 459.8 | 448.7 | 439.6 | 432.0 | 425.0 | 422.2 | 421.5 |
| 17.5° | 499.6 | 495.4 | 489.8 | 477.3 | 462.6 | 446.6 | 434.8 | 429.2 | 428.5 |
| 20° | 535.1 | 530.9 | 522.6 | 505.1 | 482.1 | 457.1 | 438.2 | 429.9 | 429.2 |
| 22.5° | 571.3 | 571.3 | 557.4 | 528.8 | 494.7 | 461.2 | 436.2 | 425.0 | 422.9 |
| 25° | 611.0 | 613.1 | 592.2 | 547.6 | 501.6 | 459.1 | 427.1 | 413.2 | 410.4 |
| 27.5° | 659.1 | 657.0 | 622.2 | 562.3 | 502.3 | 450.8 | 412.5 | 395.7 | 393.0 |
| 30° | 712.1 | 698.1 | 646.6 | 570.6 | 497.5 | 435.5 | 393.0 | 374.1 | 372.1 |
| 32.5° | 765.0 | 735.1 | 664.7 | 572.0 | 483.5 | 413.2 | 367.2 | 347.7 | 344.9 |
| 35° | 821.5 | 767.8 | 675.8 | 564.4 | 460.5 | 383.2 | 335.1 | 316.3 | 313.5 |
| 37.5° | 868.8 | 792.9 | 679.3 | 544.2 | 425.7 | 348.4 | 305.9 | 286.4 | 281.5 |
| 40° | 912.0 | 811.0 | 673.0 | 511.4 | 386.7 | 314.2 | 275.2 | 258.5 | 257.1 |
| 42.5° | 951.7 | 819.4 | 650.8 | 468.9 | 347.7 | 285.0 | 249.4 | 233.4 | 232.0 |
| 45° | 982.4 | 813.8 | 613.1 | 422.2 | 315.6 | 259.9 | 226.4 | 211.8 | 209.0 |
| 47.5° | 1001.9 | 793.6 | 561.6 | 383.2 | 289.1 | 234.1 | 201.4 | 186.0 | 183.2 |
| 50° | 1017.2 | 763.6 | 509.3 | 353.2 | 263.4 | 207.6 | 175.6 | 161.6 | 159.6 |
| 52.5° | 1037.4 | 725.3 | 464.0 | 326.1 | 233.4 | 177.7 | 149.1 | 135.9 | 133.8 |
| 55° | 1082.0 | 692.6 | 432.0 | 296.1 | 201.4 | 146.3 | 122.6 | 114.3 | 111.5 |
| 57.5° | 1233.2 | 703.7 | 411.8 | 259.9 | 164.4 | 117.7 | 101.7 | 96.8 | 96.1 |
| 60° | 1392.1 | 751.1 | 402.0 | 218.1 | 127.5 | 95.5 | 86.4 | 85.0 | 84.3 |
| 62.5° | 1383.7 | 708.6 | 361.6 | 171.4 | 98.2 | 78.7 | 74.6 | 75.2 | 75.2 |
| 63° | 1355.8 | 682.8 | 348.4 | 160.9 | 93.4 | 76.6 | 72.5 | 72.5 | 72.5 |
| 65° | 1187.2 | 579.0 | 282.9 | 121.9 | 78.0 | 68.3 | 64.8 | 65.5 | 66.2 |
| 67.5° | 980.3 | 418.0 | 186.0 | 85.0 | 70.4 | 62.0 | 57.8 | 56.4 | 56.4 |
| 70° | 749.7 | 281.5 | 110.1 | 73.9 | 69.7 | 57.8 | 50.9 | 49.5 | 49.5 |
| 72.5° | 491.9 | 172.1 | 74.6 | 73.9 | 69.0 | 55.0 | 47.4 | 44.6 | 44.6 |
| 75° | 225.7 | 85.0 | 62.0 | 71.1 | 65.5 | 50.9 | 41.8 | 38.3 | 37.6 |
| 77.5° | 87.8 | 53.6 | 55.7 | 59.9 | 50.9 | 41.8 | 37.6 | 34.8 | 34.1 |
| 80° | 50.9 | 43.2 | 48.8 | 43.2 | 36.9 | 32.0 | 32.0 | 30.0 | 29.3 |
| 82.5° | 36.9 | 36.9 | 37.6 | 31.4 | 27.9 | 26.5 | 26.5 | 24.4 | 23.7 |
| 85° | 26.5 | 27.2 | 31.4 | 25.1 | 21.6 | 18.8 | 17.4 | 17.4 | 16.7 |
| 87.5° | 13.2 | 21.6 | 17.4 | 10.5 | 9.8 | 9.1 | 9.1 | 9.1 | 8.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)