

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: P140900

Luminaire Tested: **ECM-E01-LED-E1-SL2**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140900
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33690)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-E01-LED-E1-SL2
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2877.9 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

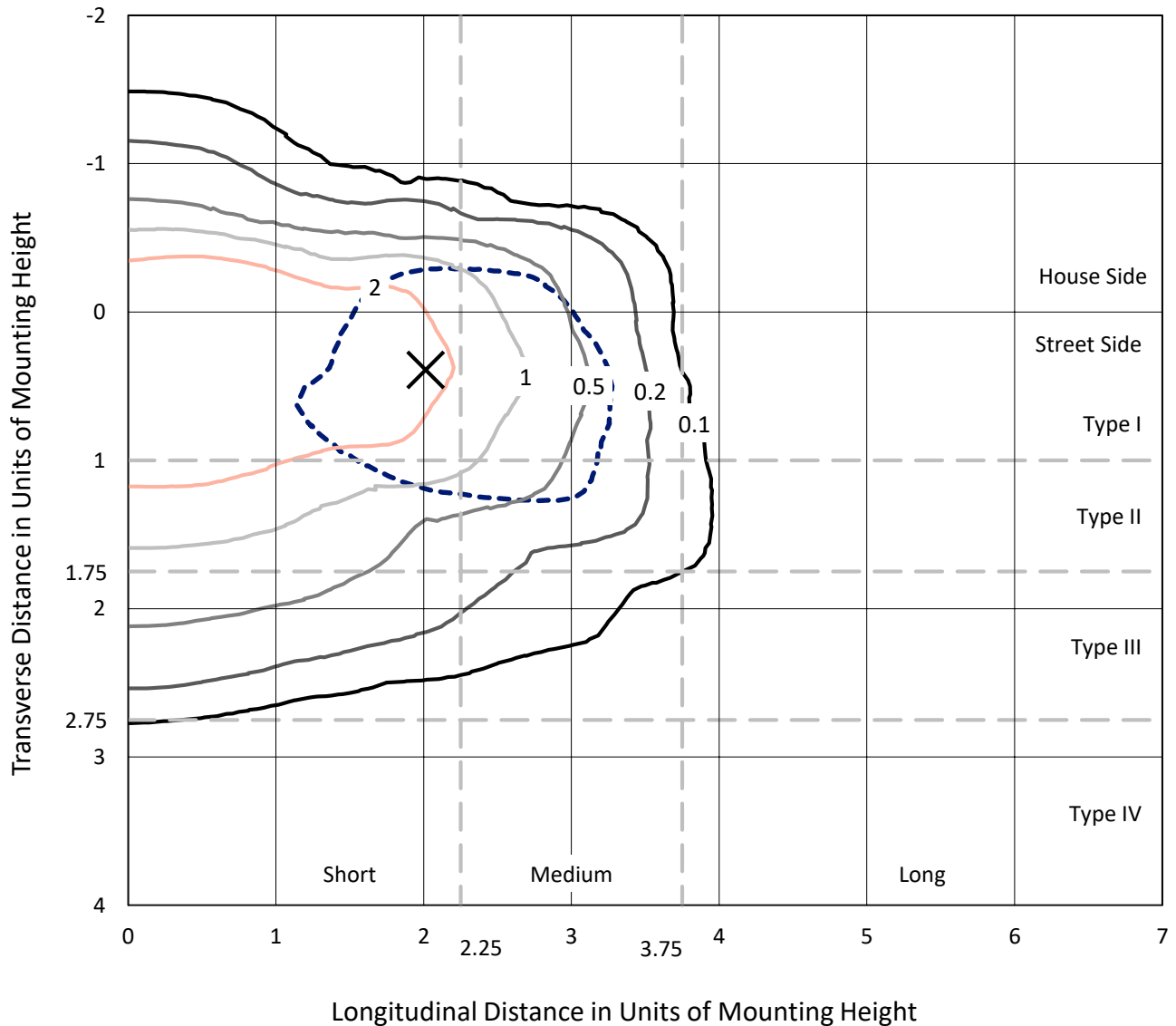
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P140900
 CATALOG NUMBER: ECM-E01-LED-E1-SL2

Iso-Footcandle Lines of Horizontal Illumination

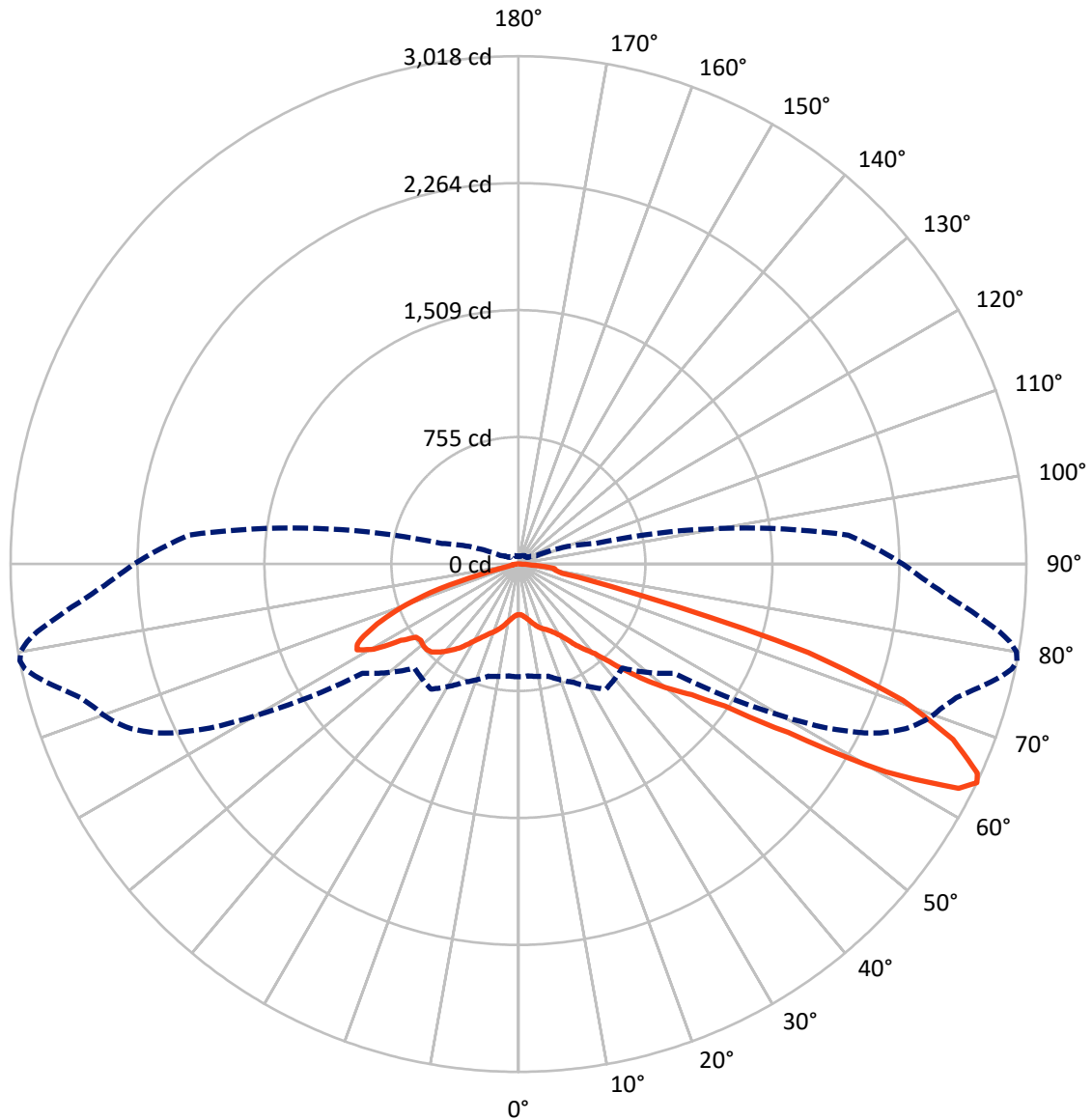
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P140900
CATALOG NUMBER: ECM-E01-LED-E1-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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CATALOG NUMBER: ECM-E01-LED-E1-SL2

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 686.0 | 0.0 | 686.0 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 2191.9 | 0.0 | 2191.9 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 2877.9 | 0.0 | 2877.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 29.8 | 1.0 |
| 10°-20° | 96.7 | 3.4 |
| 20°-30° | 165.9 | 5.8 |
| 30°-40° | 277.4 | 9.6 |
| 40°-50° | 475.2 | 16.5 |
| 50°-60° | 641.0 | 22.3 |
| 60°-70° | 810.9 | 28.2 |
| 70°-80° | 323.6 | 11.2 |
| 80°-90° | 57.4 | 2.0 |
| 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° | 2877.9 | 100.0 |
| 0°-180° | 2877.9 | 100.0 |



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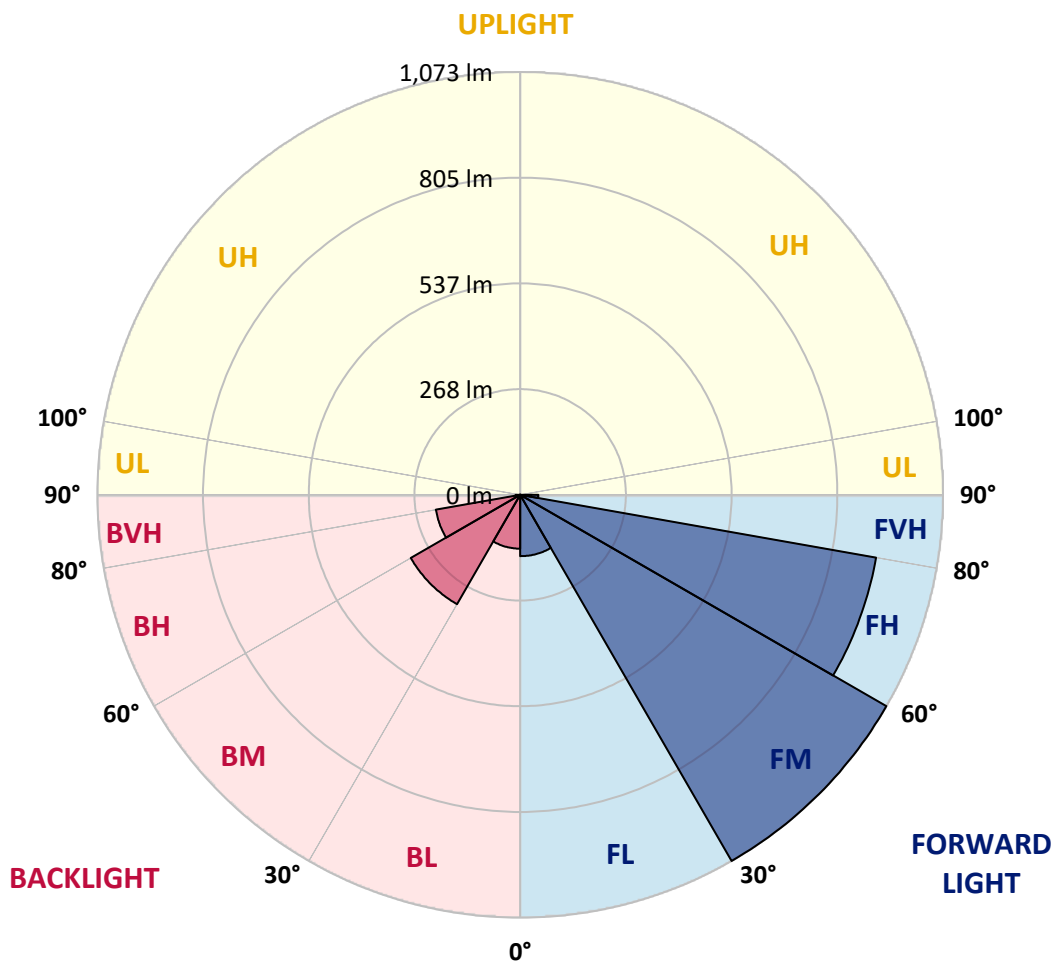
CATALOG NUMBER: ECM-E01-LED-E1-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 155.7 | 5.4 | | | |
| FM (30°-60°) | 1073.1 | 37.3 | | | |
| FH (60°-80°) | 917.1 | 31.9 | | | G1/1800 |
| FVH (80°-90°) | 46.0 | 1.6 | | | G1/100 |
| BL (0°-30°) | 136.7 | 4.7 | B1/500 | | |
| BM (30°-60°) | 320.6 | 11.1 | B1/1000 | | |
| BH (60°-80°) | 217.3 | 7.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 11.4 | 0.4 | | | 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: P140900

CATALOG NUMBER: ECM-E01-LED-E1-SL2

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 |
| 2.5° | 299.7 | 300.0 | 299.7 | 300.7 | 301.3 | 302.3 | 302.3 | 302.3 | 302.3 | 302.3 | 302.3 |
| 5° | 299.3 | 299.7 | 299.3 | 301.0 | 302.7 | 304.7 | 306.7 | 307.3 | 307.3 | 307.7 | 308.0 |
| 7.5° | 302.3 | 302.7 | 302.3 | 304.3 | 306.7 | 310.0 | 313.7 | 315.7 | 316.0 | 316.3 | 317.0 |
| 10° | 311.7 | 311.0 | 309.7 | 311.7 | 314.0 | 319.0 | 323.3 | 326.7 | 327.7 | 328.0 | 329.3 |
| 12.5° | 324.0 | 323.7 | 321.3 | 320.3 | 321.7 | 327.3 | 335.3 | 340.0 | 341.0 | 341.3 | 342.7 |
| 15° | 333.3 | 332.3 | 330.3 | 329.0 | 331.3 | 337.3 | 348.0 | 354.0 | 356.0 | 356.3 | 358.7 |
| 17.5° | 339.3 | 338.7 | 335.3 | 334.3 | 338.0 | 347.3 | 360.7 | 368.0 | 369.3 | 370.3 | 373.0 |
| 20° | 349.3 | 347.3 | 342.3 | 338.0 | 341.0 | 355.3 | 371.0 | 378.7 | 380.7 | 381.7 | 384.0 |
| 22.5° | 362.7 | 361.0 | 355.0 | 344.0 | 344.0 | 360.0 | 380.3 | 389.0 | 390.7 | 392.7 | 395.3 |
| 25° | 385.7 | 384.3 | 372.7 | 354.0 | 349.3 | 364.7 | 389.0 | 400.7 | 402.3 | 404.7 | 408.7 |
| 27.5° | 409.3 | 407.7 | 394.7 | 369.7 | 358.7 | 373.3 | 401.7 | 415.7 | 418.0 | 420.7 | 425.3 |
| 30° | 439.7 | 436.7 | 423.7 | 394.7 | 377.0 | 387.3 | 421.7 | 439.3 | 442.0 | 445.3 | 451.7 |
| 32.5° | 507.7 | 509.0 | 485.3 | 454.7 | 423.7 | 419.3 | 452.7 | 474.3 | 478.3 | 482.7 | 491.3 |
| 35° | 618.3 | 613.0 | 604.3 | 573.0 | 538.7 | 504.7 | 513.0 | 536.3 | 540.7 | 542.0 | 545.7 |
| 37.5° | 689.0 | 692.0 | 699.0 | 699.0 | 673.3 | 659.0 | 635.3 | 624.0 | 625.0 | 626.3 | 623.3 |
| 40° | 728.3 | 734.7 | 758.7 | 791.0 | 814.3 | 827.3 | 823.3 | 770.3 | 764.0 | 755.7 | 729.0 |
| 42.5° | 756.7 | 763.0 | 804.0 | 866.0 | 924.0 | 970.0 | 995.3 | 953.7 | 949.0 | 929.0 | 897.0 |
| 45° | 774.0 | 779.0 | 828.3 | 916.3 | 1004.0 | 1082.3 | 1151.7 | 1137.0 | 1135.7 | 1118.7 | 1076.7 |
| 47.5° | 770.7 | 775.0 | 826.3 | 932.3 | 1047.3 | 1153.7 | 1261.0 | 1287.7 | 1289.0 | 1284.7 | 1259.0 |
| 50° | 721.3 | 731.7 | 782.7 | 897.0 | 1023.3 | 1181.3 | 1331.7 | 1401.3 | 1403.3 | 1407.3 | 1397.3 |
| 52.5° | 677.3 | 685.3 | 731.0 | 833.3 | 954.7 | 1154.0 | 1374.0 | 1484.7 | 1501.7 | 1511.3 | 1530.0 |
| 55° | 659.3 | 664.0 | 699.0 | 786.0 | 898.0 | 1081.0 | 1388.3 | 1545.0 | 1575.3 | 1593.7 | 1636.3 |
| 57.5° | 656.0 | 659.7 | 686.7 | 753.0 | 860.3 | 1005.7 | 1383.7 | 1626.0 | 1674.0 | 1708.7 | 1791.3 |
| 60° | 678.3 | 681.7 | 700.7 | 756.3 | 834.3 | 950.7 | 1341.0 | 1732.7 | 1800.0 | 1893.3 | 2026.7 |
| 62.5° | 695.0 | 696.7 | 720.0 | 798.0 | 863.0 | 897.0 | 1232.3 | 1807.3 | 1927.0 | 2045.7 | 2244.0 |
| 64° | 670.7 | 667.3 | 690.3 | 776.3 | 907.3 | 874.0 | 1131.7 | 1803.7 | 1944.0 | 2075.7 | 2290.3 |
| 65° | 635.0 | 637.3 | 658.0 | 734.0 | 899.7 | 873.0 | 1065.7 | 1763.7 | 1909.3 | 2049.0 | 2268.7 |
| 67.5° | 493.3 | 502.3 | 508.0 | 577.7 | 737.0 | 901.3 | 892.3 | 1509.0 | 1655.3 | 1788.7 | 2048.3 |
| 70° | 265.3 | 264.3 | 277.0 | 332.0 | 512.7 | 765.0 | 765.7 | 1063.7 | 1225.7 | 1391.3 | 1649.7 |
| 72.5° | 97.7 | 102.7 | 112.7 | 151.7 | 266.3 | 552.0 | 701.7 | 737.7 | 810.0 | 941.7 | 1218.7 |
| 75° | 56.0 | 56.7 | 58.7 | 71.3 | 128.3 | 304.7 | 652.0 | 652.7 | 658.0 | 679.7 | 830.3 |
| 77.5° | 43.7 | 42.3 | 43.3 | 46.3 | 70.0 | 160.3 | 523.0 | 620.0 | 619.3 | 616.0 | 638.0 |
| 80° | 32.7 | 34.0 | 36.0 | 36.0 | 43.3 | 86.0 | 297.3 | 551.7 | 570.3 | 584.3 | 592.3 |
| 82.5° | 26.3 | 27.3 | 32.3 | 32.3 | 31.7 | 48.7 | 140.3 | 408.7 | 467.3 | 505.3 | 564.3 |
| 85° | 17.0 | 18.0 | 27.3 | 27.0 | 25.7 | 28.7 | 73.3 | 137.0 | 147.7 | 180.0 | 256.0 |
| 87.5° | 4.7 | 5.7 | 12.7 | 11.0 | 13.3 | 10.7 | 27.3 | 41.7 | 51.3 | 58.0 | 73.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P140900

CATALOG NUMBER: ECM-E01-LED-E1-SL2

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 71° | 72° | 73° | 74° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 |
| 2.5° | 302.3 | 302.3 | 302.3 | 302.7 | 302.7 | 302.7 | 302.7 | 302.7 | 303.0 | 302.3 | 302.3 |
| 5° | 308.3 | 308.0 | 308.3 | 308.3 | 309.3 | 309.0 | 309.3 | 309.3 | 309.0 | 309.7 | 309.7 |
| 7.5° | 318.0 | 317.3 | 318.0 | 318.3 | 318.7 | 320.0 | 320.0 | 320.7 | 321.0 | 321.3 | 320.7 |
| 10° | 329.7 | 330.7 | 331.0 | 331.0 | 332.7 | 333.3 | 333.3 | 334.3 | 335.3 | 336.0 | 335.7 |
| 12.5° | 344.0 | 344.7 | 345.0 | 347.0 | 347.3 | 348.3 | 350.0 | 351.0 | 351.0 | 352.7 | 353.7 |
| 15° | 360.0 | 360.7 | 362.7 | 363.3 | 364.7 | 366.3 | 367.3 | 368.3 | 368.3 | 371.3 | 372.3 |
| 17.5° | 373.7 | 375.0 | 376.3 | 377.3 | 379.7 | 381.3 | 383.0 | 384.0 | 385.7 | 387.0 | 389.3 |
| 20° | 385.3 | 387.0 | 388.7 | 390.7 | 392.3 | 394.0 | 396.0 | 397.3 | 399.3 | 401.3 | 403.7 |
| 22.5° | 396.7 | 398.7 | 400.7 | 402.3 | 404.7 | 406.3 | 408.0 | 410.3 | 411.7 | 413.7 | 416.3 |
| 25° | 409.0 | 412.3 | 414.3 | 416.7 | 419.0 | 421.3 | 423.3 | 425.3 | 427.3 | 430.0 | 432.7 |
| 27.5° | 428.7 | 430.3 | 433.0 | 434.3 | 438.3 | 441.0 | 443.7 | 444.0 | 446.7 | 451.7 | 452.3 |
| 30° | 454.3 | 457.3 | 459.0 | 463.7 | 464.3 | 465.3 | 469.7 | 472.7 | 476.0 | 480.0 | 481.7 |
| 32.5° | 493.0 | 495.7 | 498.0 | 499.3 | 503.0 | 509.0 | 509.7 | 512.3 | 518.0 | 519.0 | 525.0 |
| 35° | 549.7 | 550.3 | 554.0 | 556.0 | 560.7 | 564.0 | 565.7 | 568.0 | 571.0 | 578.0 | 579.7 |
| 37.5° | 617.7 | 623.3 | 618.7 | 614.0 | 622.3 | 621.3 | 623.3 | 620.7 | 628.7 | 629.0 | 632.0 |
| 40° | 723.3 | 721.0 | 711.0 | 700.3 | 695.3 | 692.3 | 686.3 | 685.0 | 689.3 | 687.3 | 688.3 |
| 42.5° | 879.0 | 857.0 | 840.0 | 827.3 | 811.7 | 794.7 | 785.0 | 770.3 | 770.3 | 766.0 | 770.0 |
| 45° | 1062.0 | 1037.3 | 1005.7 | 975.7 | 956.3 | 934.0 | 911.0 | 895.7 | 880.0 | 868.3 | 878.7 |
| 47.5° | 1242.3 | 1225.7 | 1190.3 | 1162.7 | 1124.0 | 1090.7 | 1054.3 | 1022.7 | 1004.0 | 990.3 | 992.3 |
| 50° | 1399.0 | 1383.7 | 1365.3 | 1328.0 | 1298.7 | 1264.7 | 1226.3 | 1184.7 | 1144.3 | 1128.0 | 1114.0 |
| 52.5° | 1531.0 | 1525.7 | 1510.0 | 1492.7 | 1468.7 | 1432.3 | 1408.0 | 1368.3 | 1320.7 | 1286.3 | 1271.7 |
| 55° | 1647.7 | 1657.0 | 1665.3 | 1661.7 | 1653.0 | 1648.3 | 1618.3 | 1591.3 | 1559.0 | 1549.0 | 1518.7 |
| 57.5° | 1831.3 | 1858.3 | 1890.3 | 1908.0 | 1925.3 | 1965.0 | 1974.7 | 1964.3 | 1968.3 | 1965.7 | 1949.7 |
| 60° | 2091.3 | 2156.7 | 2212.7 | 2257.3 | 2305.0 | 2351.3 | 2406.0 | 2442.0 | 2457.0 | 2515.0 | 2514.0 |
| 62.5° | 2314.3 | 2401.3 | 2473.0 | 2526.7 | 2582.3 | 2624.3 | 2659.7 | 2695.7 | 2739.7 | 2781.7 | 2834.7 |
| 64° | 2375.0 | 2443.3 | 2501.7 | 2549.7 | 2589.7 | 2624.0 | 2651.0 | 2684.0 | 2720.3 | 2774.7 | 2833.3 |
| 65° | 2343.7 | 2420.7 | 2463.0 | 2506.3 | 2542.3 | 2569.0 | 2596.7 | 2626.7 | 2672.7 | 2715.7 | 2778.3 |
| 67.5° | 2130.7 | 2189.0 | 2250.3 | 2290.7 | 2325.3 | 2341.0 | 2367.0 | 2392.0 | 2417.7 | 2461.0 | 2539.3 |
| 70° | 1796.7 | 1862.0 | 1950.3 | 1988.3 | 2024.3 | 2030.0 | 2054.3 | 2073.0 | 2090.0 | 2147.7 | 2186.3 |
| 72.5° | 1348.0 | 1474.7 | 1561.3 | 1628.0 | 1635.3 | 1663.7 | 1673.7 | 1681.3 | 1700.7 | 1711.3 | 1723.0 |
| 75° | 929.0 | 1043.0 | 1116.7 | 1142.0 | 1173.0 | 1158.0 | 1140.7 | 1079.7 | 1080.0 | 1028.3 | 969.7 |
| 77.5° | 653.7 | 671.3 | 672.0 | 672.3 | 631.3 | 607.3 | 580.0 | 545.0 | 531.3 | 504.0 | 466.7 |
| 80° | 592.7 | 590.7 | 578.3 | 563.3 | 541.0 | 509.0 | 476.0 | 453.0 | 435.0 | 414.7 | 388.0 |
| 82.5° | 572.0 | 576.7 | 567.7 | 555.0 | 542.0 | 510.3 | 472.3 | 436.3 | 406.7 | 374.3 | 341.7 |
| 85° | 278.7 | 286.7 | 312.7 | 329.7 | 333.7 | 314.0 | 287.0 | 254.3 | 223.0 | 187.7 | 171.3 |
| 87.5° | 83.7 | 89.7 | 91.7 | 97.3 | 104.3 | 95.0 | 83.7 | 75.0 | 60.3 | 52.3 | 41.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P140900

CATALOG NUMBER: ECM-E01-LED-E1-SL2

CANDELA DISTRIBUTION (continued):

| | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° | 84° | 85° | 86° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 |
| 2.5° | 302.3 | 302.7 | 302.7 | 302.3 | 302.7 | 302.7 | 303.0 | 302.7 | 302.7 | 302.7 | 302.3 |
| 5° | 309.0 | 310.3 | 310.0 | 310.0 | 310.7 | 310.7 | 310.3 | 311.0 | 310.7 | 310.7 | 310.3 |
| 7.5° | 321.7 | 321.7 | 322.7 | 323.0 | 322.3 | 322.3 | 323.0 | 323.3 | 324.0 | 324.3 | 324.3 |
| 10° | 336.3 | 338.0 | 338.0 | 338.3 | 338.7 | 339.7 | 340.0 | 340.0 | 340.7 | 340.7 | 341.3 |
| 12.5° | 354.3 | 355.0 | 355.7 | 357.3 | 357.7 | 357.7 | 359.3 | 359.0 | 359.0 | 360.7 | 361.0 |
| 15° | 373.7 | 374.7 | 376.3 | 377.0 | 377.7 | 379.3 | 380.3 | 381.3 | 381.0 | 383.3 | 384.0 |
| 17.5° | 390.7 | 391.7 | 393.7 | 395.3 | 396.3 | 397.3 | 398.0 | 399.3 | 401.3 | 403.0 | 403.3 |
| 20° | 404.3 | 405.7 | 408.0 | 410.0 | 411.7 | 412.7 | 415.3 | 416.7 | 417.3 | 418.7 | 420.3 |
| 22.5° | 417.7 | 420.0 | 422.3 | 423.0 | 426.7 | 427.7 | 429.7 | 431.7 | 433.0 | 436.0 | 437.0 |
| 25° | 434.3 | 436.3 | 439.3 | 441.3 | 443.7 | 445.7 | 447.7 | 449.3 | 452.3 | 455.0 | 456.3 |
| 27.5° | 456.3 | 458.0 | 460.3 | 464.0 | 466.0 | 467.3 | 471.0 | 474.3 | 475.7 | 478.3 | 480.7 |
| 30° | 485.3 | 487.0 | 490.3 | 494.0 | 495.7 | 500.0 | 502.7 | 505.0 | 507.7 | 511.3 | 514.7 |
| 32.5° | 527.7 | 529.7 | 532.7 | 537.3 | 537.3 | 540.3 | 546.0 | 551.0 | 553.0 | 557.3 | 559.7 |
| 35° | 583.3 | 583.7 | 587.0 | 594.0 | 596.0 | 595.3 | 600.7 | 605.3 | 606.7 | 613.3 | 617.7 |
| 37.5° | 637.3 | 638.3 | 642.3 | 645.0 | 648.7 | 651.3 | 655.0 | 662.0 | 662.0 | 671.7 | 675.7 |
| 40° | 693.3 | 698.3 | 699.0 | 699.7 | 705.7 | 716.3 | 720.0 | 727.0 | 733.3 | 742.7 | 747.0 |
| 42.5° | 774.7 | 780.0 | 786.3 | 793.7 | 802.7 | 808.7 | 815.7 | 825.7 | 828.3 | 840.0 | 843.0 |
| 45° | 886.0 | 892.3 | 909.3 | 911.0 | 927.0 | 935.0 | 946.7 | 960.0 | 963.3 | 971.0 | 967.0 |
| 47.5° | 997.0 | 1004.3 | 1023.0 | 1042.3 | 1057.0 | 1071.0 | 1074.3 | 1080.0 | 1085.0 | 1080.3 | 1081.7 |
| 50° | 1120.0 | 1130.7 | 1148.3 | 1165.3 | 1176.3 | 1192.3 | 1192.3 | 1193.7 | 1189.0 | 1181.3 | 1169.0 |
| 52.5° | 1264.0 | 1265.7 | 1277.0 | 1290.3 | 1300.3 | 1303.7 | 1303.7 | 1296.0 | 1284.7 | 1272.3 | 1248.3 |
| 55° | 1504.3 | 1486.0 | 1489.3 | 1489.3 | 1482.0 | 1476.0 | 1471.3 | 1452.7 | 1430.3 | 1408.0 | 1386.0 |
| 57.5° | 1937.3 | 1954.7 | 1903.0 | 1889.0 | 1889.7 | 1844.0 | 1825.3 | 1793.3 | 1769.3 | 1729.3 | 1695.7 |
| 60° | 2555.0 | 2543.0 | 2526.0 | 2510.0 | 2511.3 | 2451.0 | 2408.7 | 2361.0 | 2319.3 | 2231.3 | 2194.0 |
| 62.5° | 2882.0 | 2924.7 | 2949.0 | 2936.7 | 2908.3 | 2870.7 | 2801.3 | 2729.0 | 2655.7 | 2581.0 | 2514.0 |
| 64° | 2894.0 | 2950.3 | 2998.3 | 3018.3 | 3005.0 | 2957.3 | 2886.7 | 2796.7 | 2709.3 | 2621.3 | 2540.3 |
| 65° | 2836.0 | 2907.3 | 2969.3 | 2997.3 | 2998.0 | 2956.0 | 2885.3 | 2794.7 | 2701.3 | 2599.3 | 2515.0 |
| 67.5° | 2595.3 | 2677.3 | 2738.3 | 2785.3 | 2825.7 | 2804.3 | 2755.3 | 2659.0 | 2570.7 | 2455.0 | 2362.7 |
| 70° | 2234.3 | 2285.0 | 2353.7 | 2422.3 | 2454.7 | 2459.7 | 2441.3 | 2392.7 | 2289.3 | 2195.3 | 2076.3 |
| 72.5° | 1722.0 | 1800.7 | 1760.3 | 1802.7 | 1829.7 | 1803.3 | 1806.7 | 1723.7 | 1690.3 | 1607.7 | 1524.0 |
| 75° | 912.0 | 914.7 | 897.3 | 771.3 | 755.7 | 698.0 | 762.0 | 647.7 | 608.7 | 572.7 | 526.3 |
| 77.5° | 423.0 | 368.3 | 317.3 | 265.0 | 216.7 | 189.7 | 148.0 | 130.3 | 117.3 | 103.3 | 106.3 |
| 80° | 353.7 | 311.7 | 267.0 | 221.3 | 186.0 | 150.3 | 120.7 | 93.7 | 75.0 | 63.0 | 57.3 |
| 82.5° | 313.0 | 276.0 | 245.0 | 217.0 | 191.7 | 156.7 | 128.7 | 99.3 | 76.3 | 57.7 | 44.7 |
| 85° | 141.3 | 110.7 | 100.7 | 79.3 | 67.3 | 57.3 | 45.7 | 37.7 | 31.0 | 26.3 | 20.7 |
| 87.5° | 33.0 | 22.7 | 19.3 | 18.3 | 16.0 | 15.0 | 12.7 | 13.3 | 11.0 | 8.7 | 9.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P140900

CATALOG NUMBER: ECM-E01-LED-E1-SL2

CANDELA DISTRIBUTION (continued):

| | 87° | 88° | 89° | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° |
|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 0° | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 |
| 2.5° | 302.3 | 302.3 | 302.7 | 302.7 | 303.0 | 303.7 | 304.7 | 303.7 | 303.7 | 303.7 | 304.0 |
| 5° | 311.0 | 311.3 | 311.0 | 311.0 | 311.7 | 312.7 | 313.0 | 311.0 | 310.0 | 309.0 | 307.7 |
| 7.5° | 323.7 | 325.0 | 324.7 | 324.7 | 325.3 | 325.3 | 324.7 | 321.7 | 318.7 | 314.0 | 310.0 |
| 10° | 341.3 | 342.0 | 342.0 | 342.0 | 343.0 | 343.7 | 340.7 | 334.0 | 326.0 | 317.7 | 310.3 |
| 12.5° | 362.3 | 362.0 | 363.0 | 364.0 | 363.3 | 363.3 | 357.7 | 347.3 | 334.3 | 320.7 | 308.0 |
| 15° | 384.3 | 384.7 | 384.7 | 386.3 | 386.7 | 385.3 | 376.3 | 360.3 | 340.3 | 319.7 | 299.3 |
| 17.5° | 405.0 | 405.7 | 406.0 | 407.3 | 409.0 | 405.3 | 392.3 | 370.7 | 341.3 | 310.3 | 283.0 |
| 20° | 422.3 | 423.3 | 424.3 | 425.3 | 427.0 | 424.3 | 407.0 | 375.7 | 336.0 | 295.3 | 264.0 |
| 22.5° | 438.0 | 439.7 | 440.3 | 442.0 | 444.7 | 441.3 | 420.3 | 375.7 | 324.0 | 279.0 | 242.7 |
| 25° | 457.0 | 459.0 | 462.3 | 463.0 | 467.7 | 464.0 | 431.0 | 373.0 | 310.3 | 258.3 | 219.7 |
| 27.5° | 482.0 | 484.0 | 487.0 | 488.7 | 494.3 | 489.3 | 439.0 | 366.0 | 293.3 | 236.0 | 197.3 |
| 30° | 515.0 | 517.0 | 520.7 | 522.3 | 532.7 | 516.0 | 444.3 | 355.3 | 273.7 | 210.0 | 171.7 |
| 32.5° | 561.0 | 566.3 | 566.0 | 570.3 | 579.7 | 545.7 | 446.7 | 340.3 | 249.0 | 183.7 | 147.7 |
| 35° | 621.3 | 625.0 | 628.3 | 634.3 | 638.7 | 577.3 | 445.0 | 320.7 | 218.3 | 156.3 | 126.7 |
| 37.5° | 679.3 | 685.7 | 688.0 | 692.0 | 691.0 | 598.7 | 438.3 | 290.0 | 185.0 | 132.0 | 112.3 |
| 40° | 751.7 | 755.3 | 762.7 | 766.3 | 748.7 | 619.0 | 422.7 | 249.0 | 151.7 | 116.0 | 103.0 |
| 42.5° | 848.0 | 852.7 | 849.0 | 848.0 | 814.0 | 630.3 | 392.7 | 208.0 | 127.0 | 104.3 | 95.3 |
| 45° | 965.0 | 967.0 | 956.0 | 948.7 | 889.3 | 629.3 | 349.0 | 169.3 | 110.0 | 95.7 | 88.7 |
| 47.5° | 1070.7 | 1066.7 | 1052.3 | 1041.3 | 954.7 | 606.0 | 294.3 | 139.7 | 101.0 | 88.7 | 83.3 |
| 50° | 1158.0 | 1140.3 | 1125.0 | 1111.0 | 1007.0 | 570.3 | 242.0 | 117.7 | 92.3 | 83.0 | 78.0 |
| 52.5° | 1237.0 | 1213.0 | 1195.0 | 1171.3 | 1054.7 | 523.3 | 200.3 | 102.7 | 83.7 | 77.3 | 72.3 |
| 55° | 1354.0 | 1326.0 | 1303.0 | 1279.7 | 1139.0 | 486.7 | 173.3 | 91.3 | 75.0 | 71.3 | 66.7 |
| 57.5° | 1689.7 | 1614.7 | 1594.3 | 1573.3 | 1365.0 | 478.7 | 157.7 | 82.3 | 68.3 | 65.7 | 62.7 |
| 60° | 2148.7 | 2100.0 | 2067.3 | 2016.0 | 1740.3 | 504.3 | 146.0 | 75.7 | 63.7 | 62.0 | 59.3 |
| 62.5° | 2448.0 | 2389.3 | 2335.3 | 2283.0 | 1960.7 | 503.7 | 131.7 | 71.3 | 61.0 | 60.7 | 56.7 |
| 64° | 2467.0 | 2401.3 | 2341.0 | 2284.7 | 1967.7 | 470.7 | 118.7 | 68.3 | 61.0 | 61.0 | 55.0 |
| 65° | 2435.7 | 2369.7 | 2307.3 | 2248.7 | 1927.7 | 445.3 | 110.0 | 67.0 | 62.0 | 61.7 | 54.0 |
| 67.5° | 2276.0 | 2209.7 | 2139.7 | 2076.7 | 1758.3 | 349.0 | 87.0 | 64.7 | 67.3 | 65.0 | 53.0 |
| 70° | 1993.7 | 1918.3 | 1865.7 | 1820.3 | 1509.3 | 243.7 | 69.0 | 66.0 | 73.7 | 69.0 | 55.7 |
| 72.5° | 1445.0 | 1383.7 | 1383.0 | 1331.7 | 1142.7 | 154.7 | 55.7 | 65.7 | 73.3 | 68.3 | 57.7 |
| 75° | 561.3 | 481.3 | 478.7 | 496.7 | 486.0 | 83.7 | 48.0 | 58.0 | 60.0 | 57.0 | 51.0 |
| 77.5° | 96.0 | 94.3 | 93.3 | 98.3 | 108.3 | 46.3 | 44.0 | 49.3 | 44.7 | 40.3 | 42.3 |
| 80° | 53.3 | 51.0 | 50.3 | 50.3 | 47.3 | 38.0 | 39.0 | 39.3 | 32.3 | 30.0 | 35.0 |
| 82.5° | 37.0 | 34.3 | 33.0 | 32.0 | 31.0 | 34.0 | 34.7 | 31.0 | 23.3 | 23.0 | 32.7 |
| 85° | 18.0 | 17.0 | 16.7 | 16.7 | 19.0 | 32.0 | 28.7 | 24.0 | 15.7 | 15.7 | 35.3 |
| 87.5° | 7.7 | 7.7 | 6.7 | 6.7 | 10.3 | 20.3 | 13.0 | 10.0 | 6.3 | 7.3 | 14.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P140900

CATALOG NUMBER: ECM-E01-LED-E1-SL2

CANDELA DISTRIBUTION (continued):

| | 165° | 175° | 180° |
|-------|-------|-------|-------|
| 0° | 301.0 | 301.0 | 301.0 |
| 2.5° | 303.7 | 304.3 | 304.0 |
| 5° | 306.0 | 306.0 | 305.3 |
| 7.5° | 305.7 | 304.3 | 303.7 |
| 10° | 303.7 | 300.0 | 299.7 |
| 12.5° | 298.3 | 292.3 | 290.7 |
| 15° | 283.0 | 275.0 | 273.0 |
| 17.5° | 263.7 | 254.3 | 251.7 |
| 20° | 241.7 | 231.0 | 227.3 |
| 22.5° | 220.3 | 208.0 | 204.3 |
| 25° | 197.0 | 184.7 | 182.7 |
| 27.5° | 171.3 | 159.7 | 156.7 |
| 30° | 147.7 | 137.7 | 135.3 |
| 32.5° | 126.3 | 119.3 | 119.3 |
| 35° | 112.3 | 106.3 | 106.3 |
| 37.5° | 101.3 | 98.7 | 98.3 |
| 40° | 94.0 | 91.7 | 91.3 |
| 42.5° | 88.3 | 85.7 | 85.3 |
| 45° | 82.3 | 79.7 | 79.7 |
| 47.5° | 76.7 | 73.7 | 74.0 |
| 50° | 71.0 | 68.7 | 68.7 |
| 52.5° | 66.3 | 64.0 | 63.7 |
| 55° | 62.0 | 59.7 | 59.3 |
| 57.5° | 58.0 | 55.3 | 55.0 |
| 60° | 54.0 | 51.3 | 50.7 |
| 62.5° | 50.7 | 47.7 | 47.0 |
| 64° | 48.7 | 45.7 | 45.0 |
| 65° | 47.7 | 44.3 | 44.0 |
| 67.5° | 46.7 | 42.3 | 42.0 |
| 70° | 50.3 | 41.7 | 40.0 |
| 72.5° | 50.7 | 40.7 | 38.7 |
| 75° | 48.0 | 38.7 | 37.0 |
| 77.5° | 42.3 | 35.3 | 33.3 |
| 80° | 40.7 | 27.7 | 24.3 |
| 82.5° | 37.3 | 22.7 | 19.0 |
| 85° | 30.7 | 14.7 | 13.7 |
| 87.5° | 17.7 | 9.7 | 7.0 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)