

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: P162437

Luminaire Tested: **ECM-E02-LED-E1-SL3-HSS**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P162437  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ECM-E02-LED-E1-SL3-HSS  
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (42) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3296.9 lumens  
Efficiency: N/A  
Efficacy: 63.3 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G1

Input Watts (W): 52.1  
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

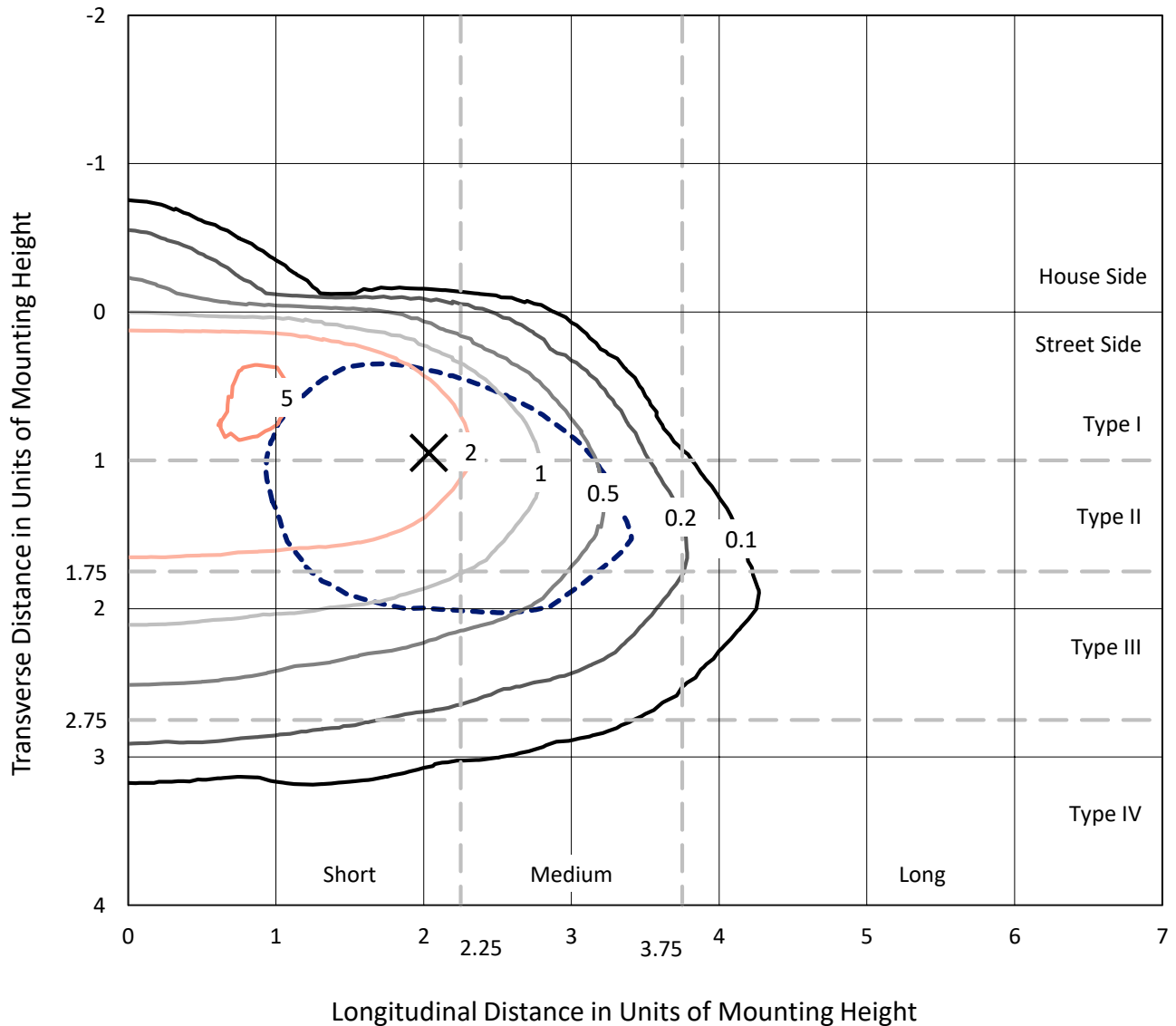


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### Iso-Footcandle Lines of Horizontal Illumination

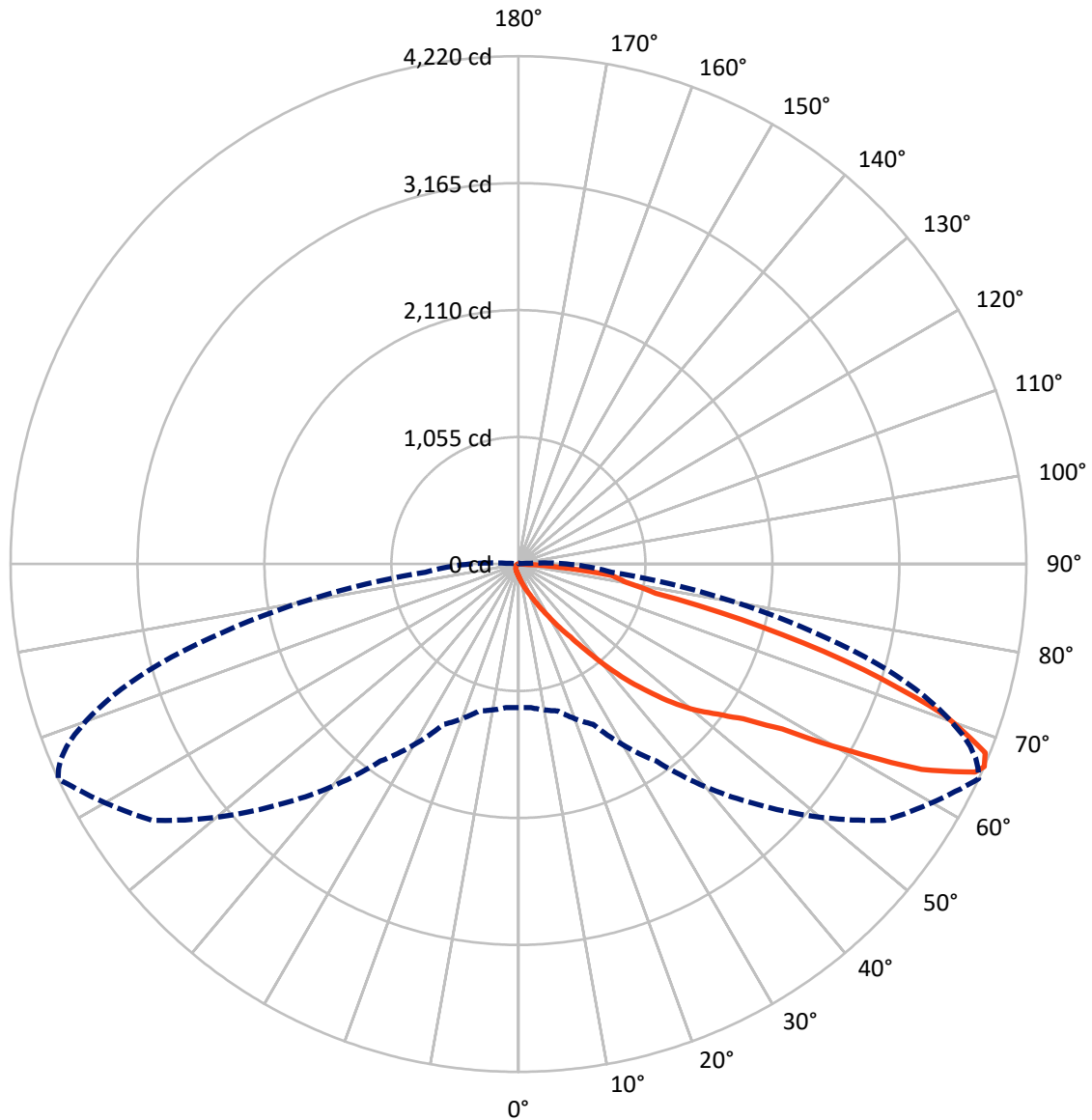
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.4 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 71.5     | 0.0    | 71.5   |
|                    | % Fixture | 2.2      | 0.0    | 2.2    |
| <b>Street Side</b> | Lumens    | 3225.5   | 0.0    | 3225.5 |
|                    | % Fixture | 97.8     | 0.0    | 97.8   |
| <b>Total</b>       | Lumens    | 3296.9   | 0.0    | 3296.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 11.1   | 0.3       |
| 10°-20°   | 47.2   | 1.4       |
| 20°-30°   | 101.9  | 3.1       |
| 30°-40°   | 217.6  | 6.6       |
| 40°-50°   | 481.1  | 14.6      |
| 50°-60°   | 815.4  | 24.7      |
| 60°-70°   | 1088.1 | 33.0      |
| 70°-80°   | 479.3  | 14.5      |
| 80°-90°   | 55.2   | 1.7       |
| 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°    | 3296.9 | 100.0     |
| 0°-180°   | 3296.9 | 100.0     |

**Coefficient of Utilization**



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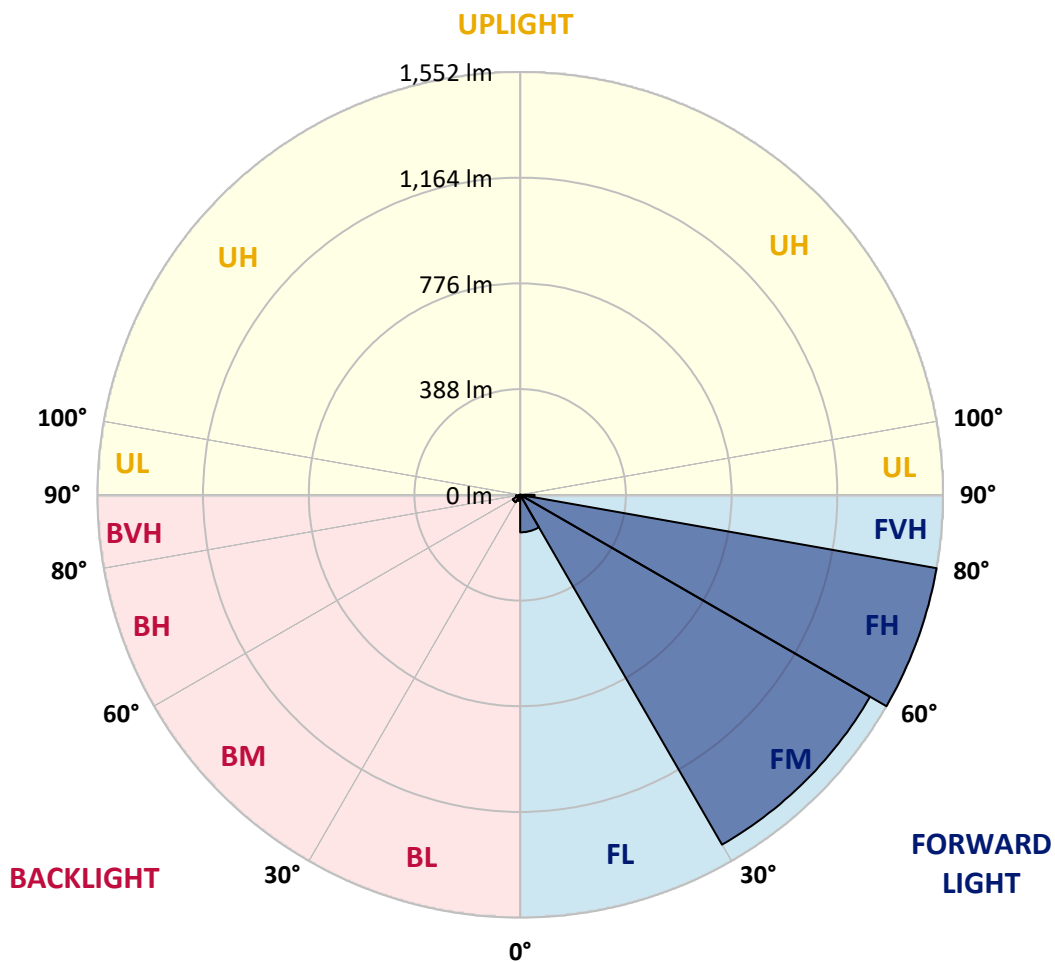
CATALOG NUMBER: ECM-E02-LED-E1-SL3-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 137.7  | 4.2       |                         |      |         |
| FM   | (30°-60°)   | 1482.7 | 45.0      |                         |      |         |
| FH   | (60°-80°)   | 1552.0 | 47.1      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 53.0   | 1.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 22.5   | 0.7       | B0/110                  |      |         |
| BM   | (30°-60°)   | 31.4   | 1.0       | B0/220                  |      |         |
| BH   | (60°-80°)   | 15.3   | 0.5       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 2.2    | 0.1       |                         |      | 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°    | 65°    | 66°    | 67°    | 68°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 99.5   | 99.5   | 99.5   | 99.5   | 99.5   | 99.5   | 99.5   | 99.5   | 99.5   | 99.5   | 99.5   |
| 2.5°  | 125.5  | 124.9  | 122.3  | 122.3  | 118.5  | 116.0  | 112.8  | 109.7  | 109.7  | 109.0  | 108.4  |
| 5°    | 166.1  | 162.3  | 161.6  | 154.7  | 148.9  | 140.7  | 133.1  | 122.9  | 121.7  | 120.4  | 119.8  |
| 7.5°  | 211.1  | 210.5  | 204.7  | 196.5  | 185.1  | 169.9  | 154.7  | 138.2  | 135.7  | 134.4  | 131.9  |
| 10°   | 269.4  | 266.2  | 258.6  | 244.7  | 227.5  | 207.3  | 182.5  | 156.5  | 153.4  | 150.9  | 149.6  |
| 12.5° | 325.1  | 319.5  | 315.0  | 297.3  | 275.7  | 245.9  | 216.1  | 178.7  | 176.2  | 173.1  | 168.0  |
| 15°   | 377.1  | 372.1  | 364.5  | 349.3  | 325.1  | 287.7  | 252.9  | 207.3  | 200.9  | 196.5  | 192.7  |
| 17.5° | 417.7  | 414.5  | 405.7  | 388.5  | 362.5  | 329.6  | 287.7  | 236.4  | 231.3  | 225.7  | 218.7  |
| 20°   | 456.3  | 451.9  | 438.0  | 414.5  | 386.7  | 361.3  | 328.9  | 274.5  | 267.5  | 260.5  | 252.9  |
| 22.5° | 493.1  | 488.7  | 465.9  | 427.2  | 397.4  | 386.7  | 375.2  | 317.5  | 306.8  | 301.1  | 293.5  |
| 25°   | 544.5  | 534.9  | 499.5  | 438.0  | 398.1  | 406.3  | 425.9  | 373.3  | 363.2  | 354.9  | 342.9  |
| 27.5° | 613.5  | 600.9  | 545.1  | 453.8  | 400.6  | 427.9  | 484.3  | 441.1  | 430.4  | 420.9  | 407.5  |
| 30°   | 691.5  | 683.3  | 616.7  | 491.9  | 419.0  | 459.5  | 549.5  | 527.3  | 514.7  | 503.3  | 487.4  |
| 32.5° | 770.1  | 758.7  | 692.8  | 564.1  | 468.4  | 521.0  | 631.3  | 627.5  | 611.0  | 600.3  | 583.1  |
| 35°   | 839.2  | 833.5  | 784.7  | 682.7  | 581.2  | 628.8  | 740.3  | 744.7  | 730.2  | 718.8  | 699.7  |
| 37.5° | 886.1  | 886.1  | 876.6  | 810.1  | 760.6  | 796.1  | 900.7  | 901.3  | 886.7  | 860.7  | 851.3  |
| 40°   | 910.2  | 917.1  | 951.4  | 964.1  | 961.5  | 1007.2 | 1111.1 | 1099.7 | 1087.7 | 1074.3 | 1042.7 |
| 42.5° | 959.7  | 966.0  | 1038.9 | 1126.3 | 1183.4 | 1243.6 | 1315.2 | 1311.4 | 1296.9 | 1272.7 | 1243.6 |
| 45°   | 1043.3 | 1051.5 | 1138.4 | 1277.2 | 1394.5 | 1480.0 | 1525.7 | 1507.9 | 1493.3 | 1470.5 | 1455.3 |
| 47.5° | 1149.8 | 1165.6 | 1263.9 | 1435.7 | 1577.0 | 1718.3 | 1765.9 | 1719.0 | 1706.3 | 1688.5 | 1663.8 |
| 50°   | 1263.3 | 1278.5 | 1383.1 | 1579.5 | 1739.3 | 1907.9 | 1987.1 | 1907.9 | 1889.5 | 1883.8 | 1855.9 |
| 52.5° | 1361.5 | 1374.1 | 1474.9 | 1690.5 | 1863.5 | 2061.3 | 2176.6 | 2072.0 | 2058.7 | 2039.7 | 2019.4 |
| 55°   | 1419.8 | 1429.9 | 1524.4 | 1743.7 | 1947.8 | 2199.4 | 2359.8 | 2267.9 | 2248.2 | 2240.6 | 2211.5 |
| 57.5° | 1439.5 | 1449.6 | 1534.5 | 1750.7 | 1993.4 | 2325.5 | 2582.3 | 2585.5 | 2562.0 | 2534.7 | 2525.9 |
| 60°   | 1439.5 | 1450.9 | 1522.5 | 1733.5 | 2037.8 | 2459.9 | 2878.9 | 3143.2 | 3092.5 | 3087.5 | 3055.1 |
| 62.5° | 1379.9 | 1390.7 | 1462.9 | 1680.9 | 2097.4 | 2641.2 | 3292.1 | 3758.7 | 3744.1 | 3711.1 | 3657.9 |
| 65°   | 1250.5 | 1256.9 | 1327.9 | 1546.6 | 2074.5 | 2807.9 | 3650.3 | 4168.1 | 4144.7 | 4080.0 | 4011.6 |
| 66°   | 1192.3 | 1197.3 | 1263.9 | 1469.9 | 1999.7 | 2830.7 | 3713.7 | 4219.5 | 4180.8 | 4126.3 | 4049.0 |
| 67.5° | 1107.9 | 1116.8 | 1163.7 | 1327.3 | 1820.4 | 2751.5 | 3673.7 | 4183.3 | 4149.7 | 4083.8 | 4006.5 |
| 70°   | 739.7  | 733.3  | 898.8  | 1018.6 | 1386.9 | 2241.9 | 3296.0 | 3756.1 | 3756.8 | 3725.7 | 3694.7 |
| 72.5° | 351.1  | 354.9  | 403.1  | 626.9  | 907.7  | 1497.7 | 2623.5 | 2998.1 | 3041.1 | 2985.4 | 2946.7 |
| 75°   | 252.3  | 258.0  | 287.1  | 383.5  | 541.3  | 898.8  | 1700.6 | 2096.7 | 2098.0 | 1999.1 | 1911.0 |
| 77.5° | 73.5   | 76.7   | 107.7  | 236.4  | 405.7  | 606.6  | 976.7  | 1165.6 | 1138.4 | 1067.4 | 1000.9 |
| 80°   | 30.4   | 30.4   | 31.7   | 75.4   | 162.9  | 412.0  | 683.3  | 897.5  | 894.3  | 867.1  | 827.8  |
| 82.5° | 11.4   | 12.1   | 15.2   | 31.1   | 38.7   | 101.4  | 455.7  | 779.0  | 777.1  | 738.4  | 710.5  |
| 85°   | 1.3    | 1.3    | 3.8    | 13.3   | 14.6   | 19.0   | 91.3   | 343.5  | 341.7  | 343.5  | 301.1  |
| 87.5° | 0.0    | 0.0    | 0.7    | 1.3    | 1.9    | 2.5    | 3.8    | 13.3   | 14.6   | 13.9   | 12.7   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    | 76°    | 77°    | 78°    | 79°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 99.5   | 99.5   | 99.5   | 99.5   | 99.5   | 99.5   | 99.5   | 99.5   | 99.5   | 99.5   | 99.5   |
| 2.5°  | 108.4  | 107.1  | 107.1  | 106.5  | 106.5  | 106.5  | 105.9  | 105.2  | 105.2  | 104.6  | 103.9  |
| 5°    | 118.5  | 117.3  | 116.6  | 115.3  | 114.7  | 114.1  | 112.8  | 112.2  | 110.9  | 110.3  | 109.7  |
| 7.5°  | 130.6  | 128.1  | 127.4  | 125.5  | 123.6  | 122.3  | 121.1  | 119.1  | 117.9  | 115.3  | 114.7  |
| 10°   | 145.8  | 142.6  | 140.1  | 137.5  | 135.7  | 132.5  | 130.6  | 128.1  | 125.5  | 123.6  | 121.7  |
| 12.5° | 165.4  | 161.0  | 157.2  | 154.7  | 150.2  | 146.4  | 142.6  | 140.7  | 135.7  | 133.1  | 129.9  |
| 15°   | 187.0  | 181.9  | 177.5  | 172.4  | 169.3  | 162.9  | 157.8  | 152.1  | 149.6  | 145.1  | 140.1  |
| 17.5° | 214.9  | 206.6  | 199.7  | 194.6  | 188.3  | 181.9  | 176.2  | 170.5  | 162.9  | 157.8  | 151.5  |
| 20°   | 244.7  | 237.7  | 228.2  | 219.3  | 211.7  | 204.1  | 195.9  | 188.3  | 181.3  | 173.1  | 165.4  |
| 22.5° | 282.7  | 272.5  | 261.1  | 252.3  | 242.1  | 233.9  | 222.5  | 212.3  | 200.9  | 190.1  | 181.3  |
| 25°   | 330.9  | 317.5  | 306.8  | 294.1  | 282.1  | 269.4  | 255.5  | 242.7  | 228.2  | 218.1  | 202.8  |
| 27.5° | 390.5  | 377.8  | 363.2  | 346.7  | 334.7  | 315.7  | 297.3  | 281.4  | 264.3  | 248.5  | 231.3  |
| 30°   | 466.5  | 448.1  | 432.9  | 417.1  | 393.0  | 374.6  | 353.1  | 331.5  | 308.1  | 292.2  | 266.2  |
| 32.5° | 557.8  | 538.1  | 515.3  | 492.5  | 470.3  | 444.3  | 417.7  | 391.1  | 365.1  | 335.9  | 309.3  |
| 35°   | 669.3  | 645.9  | 619.9  | 595.2  | 560.9  | 533.1  | 499.5  | 462.7  | 433.5  | 399.9  | 366.3  |
| 37.5° | 817.0  | 778.3  | 755.5  | 729.5  | 683.3  | 645.3  | 607.9  | 571.1  | 519.7  | 484.3  | 436.7  |
| 40°   | 1002.1 | 979.3  | 941.9  | 900.1  | 858.2  | 808.1  | 757.5  | 708.6  | 649.1  | 599.6  | 544.5  |
| 42.5° | 1219.5 | 1185.9 | 1147.9 | 1087.7 | 1045.2 | 986.3  | 928.6  | 863.9  | 791.0  | 727.7  | 663.0  |
| 45°   | 1423.6 | 1383.7 | 1354.5 | 1294.3 | 1249.9 | 1180.2 | 1110.5 | 1042.0 | 957.7  | 876.0  | 801.2  |
| 47.5° | 1644.2 | 1611.2 | 1563.1 | 1514.3 | 1469.3 | 1390.7 | 1315.2 | 1232.2 | 1143.5 | 1046.5 | 949.5  |
| 50°   | 1838.1 | 1812.1 | 1779.2 | 1720.3 | 1670.2 | 1604.3 | 1515.5 | 1424.9 | 1312.7 | 1216.3 | 1106.1 |
| 52.5° | 2002.9 | 1982.7 | 1936.4 | 1894.5 | 1849.5 | 1787.4 | 1708.2 | 1621.3 | 1500.3 | 1394.5 | 1268.9 |
| 55°   | 2197.5 | 2182.9 | 2142.4 | 2116.4 | 2076.5 | 2016.9 | 1942.7 | 1862.2 | 1734.2 | 1618.8 | 1476.9 |
| 57.5° | 2516.3 | 2504.9 | 2469.5 | 2458.7 | 2419.4 | 2367.4 | 2276.1 | 2189.9 | 2040.3 | 1897.1 | 1734.8 |
| 60°   | 3044.3 | 3021.5 | 2969.5 | 2942.9 | 2859.9 | 2790.1 | 2671.7 | 2553.1 | 2372.5 | 2189.9 | 1994.7 |
| 62.5° | 3609.7 | 3545.7 | 3446.8 | 3361.9 | 3244.0 | 3122.9 | 2964.5 | 2783.2 | 2571.5 | 2354.7 | 2130.3 |
| 65°   | 3914.6 | 3805.6 | 3680.7 | 3545.7 | 3392.9 | 3214.9 | 3015.2 | 2797.8 | 2570.2 | 2341.4 | 2104.3 |
| 66°   | 3949.5 | 3826.5 | 3694.0 | 3543.8 | 3373.9 | 3184.4 | 2981.6 | 2753.4 | 2517.0 | 2293.9 | 2056.8 |
| 67.5° | 3905.7 | 3777.1 | 3637.0 | 3470.3 | 3286.5 | 3090.0 | 2877.0 | 2639.9 | 2412.4 | 2186.1 | 1955.4 |
| 70°   | 3599.6 | 3471.5 | 3346.7 | 3171.1 | 2975.3 | 2777.5 | 2575.9 | 2311.0 | 2095.5 | 1887.6 | 1682.2 |
| 72.5° | 2874.5 | 2787.6 | 2664.0 | 2513.8 | 2323.0 | 2091.1 | 1923.1 | 1686.0 | 1499.0 | 1297.5 | 1138.4 |
| 75°   | 1796.3 | 1674.0 | 1521.2 | 1329.8 | 1184.0 | 995.7  | 897.5  | 717.5  | 611.0  | 517.9  | 427.9  |
| 77.5° | 918.5  | 826.5  | 719.4  | 611.7  | 508.3  | 405.7  | 313.7  | 221.9  | 149.6  | 103.9  | 77.3   |
| 80°   | 758.7  | 677.6  | 588.9  | 490.6  | 399.3  | 309.9  | 223.1  | 152.1  | 97.0   | 63.4   | 49.5   |
| 82.5° | 626.9  | 558.4  | 479.2  | 387.9  | 308.7  | 243.4  | 169.3  | 110.3  | 68.5   | 44.4   | 34.9   |
| 85°   | 266.9  | 242.1  | 187.0  | 148.3  | 111.5  | 82.4   | 57.7   | 38.7   | 27.3   | 22.2   | 20.3   |
| 87.5° | 11.4   | 12.7   | 12.1   | 9.5    | 7.0    | 7.0    | 6.3    | 5.1    | 5.1    | 5.1    | 5.1    |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 80°    | 81°    | 82°    | 83°    | 84°    | 85°   | 95°  | 105° | 115° | 125° | 135° |
|-------|--------|--------|--------|--------|--------|-------|------|------|------|------|------|
| 0°    | 99.5   | 99.5   | 99.5   | 99.5   | 99.5   | 99.5  | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 |
| 2.5°  | 103.9  | 103.3  | 102.7  | 102.7  | 102.1  | 101.4 | 97.6 | 94.5 | 90.7 | 88.1 | 85.6 |
| 5°    | 108.4  | 107.7  | 106.5  | 105.9  | 104.6  | 103.9 | 95.7 | 88.7 | 83.0 | 78.6 | 75.4 |
| 7.5°  | 112.8  | 112.2  | 110.3  | 108.4  | 107.7  | 106.5 | 93.2 | 84.3 | 76.7 | 71.6 | 68.5 |
| 10°   | 118.5  | 116.6  | 114.7  | 112.2  | 110.3  | 108.4 | 90.7 | 79.2 | 71.0 | 66.5 | 63.4 |
| 12.5° | 126.8  | 123.6  | 120.4  | 117.3  | 114.7  | 111.5 | 89.4 | 74.8 | 66.5 | 61.5 | 58.3 |
| 15°   | 136.3  | 131.9  | 128.1  | 124.2  | 119.8  | 116.6 | 86.9 | 71.0 | 62.7 | 57.7 | 53.9 |
| 17.5° | 145.1  | 140.1  | 134.4  | 128.7  | 124.2  | 119.8 | 84.3 | 67.2 | 58.9 | 53.9 | 50.1 |
| 20°   | 157.8  | 150.2  | 143.3  | 136.3  | 129.9  | 124.2 | 80.5 | 63.4 | 55.8 | 50.1 | 46.3 |
| 22.5° | 171.8  | 162.9  | 154.0  | 144.5  | 136.3  | 128.7 | 77.3 | 60.2 | 52.6 | 46.9 | 42.5 |
| 25°   | 189.5  | 178.7  | 166.7  | 154.7  | 145.1  | 135.0 | 74.1 | 57.1 | 49.5 | 43.7 | 39.3 |
| 27.5° | 214.3  | 199.0  | 185.7  | 170.5  | 155.9  | 144.5 | 71.6 | 54.5 | 46.3 | 40.5 | 36.1 |
| 30°   | 247.8  | 225.7  | 204.7  | 188.3  | 171.1  | 154.7 | 69.1 | 51.3 | 43.7 | 37.4 | 32.3 |
| 32.5° | 285.2  | 259.3  | 235.1  | 210.5  | 188.9  | 169.9 | 66.5 | 48.8 | 40.5 | 34.2 | 29.8 |
| 35°   | 331.5  | 298.5  | 266.2  | 237.7  | 211.7  | 186.3 | 64.0 | 46.3 | 38.0 | 31.1 | 26.6 |
| 37.5° | 398.1  | 356.9  | 314.4  | 277.6  | 244.0  | 210.5 | 62.1 | 43.7 | 34.9 | 27.9 | 23.5 |
| 40°   | 489.3  | 436.1  | 384.1  | 334.1  | 290.3  | 248.5 | 59.6 | 41.2 | 32.3 | 25.3 | 20.9 |
| 42.5° | 588.2  | 523.5  | 455.1  | 398.7  | 338.5  | 285.9 | 57.1 | 38.7 | 29.8 | 22.8 | 18.4 |
| 45°   | 711.2  | 630.7  | 547.7  | 470.9  | 397.4  | 329.6 | 54.5 | 36.1 | 26.6 | 20.3 | 15.9 |
| 47.5° | 845.5  | 742.9  | 649.1  | 552.7  | 465.3  | 384.1 | 51.3 | 34.2 | 24.1 | 17.7 | 13.9 |
| 50°   | 983.7  | 875.3  | 756.8  | 647.1  | 543.2  | 438.6 | 48.2 | 31.1 | 21.5 | 15.9 | 11.4 |
| 52.5° | 1132.7 | 1004.7 | 883.6  | 747.3  | 626.3  | 510.3 | 45.0 | 28.5 | 19.7 | 13.9 | 9.5  |
| 55°   | 1322.2 | 1178.9 | 1036.9 | 884.2  | 738.4  | 593.3 | 41.9 | 25.3 | 17.1 | 12.1 | 7.6  |
| 57.5° | 1560.5 | 1390.7 | 1216.3 | 1043.9 | 867.1  | 702.3 | 39.3 | 22.2 | 14.6 | 10.1 | 6.3  |
| 60°   | 1785.5 | 1587.1 | 1376.1 | 1177.7 | 978.0  | 785.9 | 35.5 | 19.7 | 12.7 | 8.3  | 6.3  |
| 62.5° | 1902.1 | 1675.9 | 1448.3 | 1229.7 | 1016.7 | 815.7 | 31.7 | 16.5 | 10.8 | 7.0  | 5.7  |
| 65°   | 1873.6 | 1642.9 | 1422.3 | 1201.7 | 993.2  | 796.7 | 27.9 | 14.6 | 9.5  | 6.3  | 5.7  |
| 66°   | 1832.4 | 1604.3 | 1382.4 | 1172.6 | 973.6  | 776.5 | 26.0 | 13.9 | 8.9  | 6.3  | 5.1  |
| 67.5° | 1742.4 | 1521.9 | 1310.1 | 1114.9 | 919.7  | 737.8 | 23.5 | 12.7 | 8.3  | 5.7  | 5.1  |
| 70°   | 1488.3 | 1287.9 | 1118.7 | 945.1  | 785.9  | 621.8 | 19.0 | 10.8 | 7.0  | 5.1  | 5.1  |
| 72.5° | 985.0  | 848.7  | 735.9  | 633.2  | 529.3  | 410.7 | 15.9 | 8.9  | 5.7  | 5.1  | 4.5  |
| 75°   | 371.4  | 335.9  | 288.4  | 259.3  | 226.3  | 198.4 | 12.7 | 5.7  | 4.5  | 4.5  | 4.5  |
| 77.5° | 65.9   | 60.9   | 53.9   | 49.5   | 45.7   | 41.9  | 10.1 | 3.8  | 3.8  | 4.5  | 4.5  |
| 80°   | 44.4   | 41.2   | 37.4   | 34.2   | 31.7   | 28.5  | 7.0  | 3.2  | 3.8  | 3.8  | 4.5  |
| 82.5° | 31.7   | 29.8   | 27.9   | 25.3   | 23.5   | 20.9  | 4.5  | 3.2  | 3.8  | 3.8  | 3.8  |
| 85°   | 19.0   | 17.7   | 16.5   | 15.2   | 13.3   | 12.7  | 3.2  | 3.2  | 3.2  | 3.8  | 3.8  |
| 87.5° | 5.1    | 4.5    | 5.1    | 5.1    | 3.8    | 4.5   | 2.5  | 2.5  | 2.5  | 3.2  | 3.2  |
| 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: P162437

CATALOG NUMBER: ECM-E02-LED-E1-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 145° | 155° | 165° | 175° | 180° |
|-------|------|------|------|------|------|
| 0°    | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 |
| 2.5°  | 84.3 | 84.3 | 83.0 | 84.9 | 84.9 |
| 5°    | 72.9 | 72.9 | 72.3 | 72.9 | 72.9 |
| 7.5°  | 66.5 | 65.9 | 65.9 | 65.9 | 66.5 |
| 10°   | 60.9 | 60.2 | 60.2 | 60.2 | 60.2 |
| 12.5° | 55.8 | 55.1 | 54.5 | 55.1 | 55.1 |
| 15°   | 51.3 | 50.1 | 50.1 | 50.1 | 50.1 |
| 17.5° | 47.5 | 46.3 | 45.7 | 45.7 | 45.7 |
| 20°   | 43.7 | 41.9 | 41.9 | 41.9 | 41.9 |
| 22.5° | 39.9 | 38.0 | 38.0 | 38.0 | 38.0 |
| 25°   | 36.1 | 34.2 | 34.2 | 34.2 | 34.2 |
| 27.5° | 32.9 | 31.1 | 31.1 | 31.1 | 31.1 |
| 30°   | 29.1 | 27.9 | 27.9 | 28.5 | 27.9 |
| 32.5° | 26.6 | 24.7 | 24.7 | 25.3 | 25.3 |
| 35°   | 23.5 | 22.2 | 22.2 | 22.2 | 22.2 |
| 37.5° | 20.3 | 19.0 | 19.0 | 19.0 | 19.0 |
| 40°   | 17.7 | 16.5 | 15.9 | 16.5 | 16.5 |
| 42.5° | 15.2 | 13.9 | 13.3 | 13.3 | 13.3 |
| 45°   | 13.3 | 11.4 | 10.8 | 11.4 | 11.4 |
| 47.5° | 10.8 | 9.5  | 9.5  | 10.1 | 10.1 |
| 50°   | 8.3  | 8.3  | 8.9  | 10.1 | 10.1 |
| 52.5° | 7.6  | 7.6  | 8.9  | 10.1 | 10.1 |
| 55°   | 7.0  | 7.6  | 8.9  | 9.5  | 10.1 |
| 57.5° | 6.3  | 7.6  | 8.9  | 9.5  | 9.5  |
| 60°   | 6.3  | 7.0  | 8.3  | 9.5  | 9.5  |
| 62.5° | 5.7  | 6.3  | 7.6  | 8.9  | 8.9  |
| 65°   | 5.7  | 6.3  | 7.6  | 8.9  | 8.9  |
| 66°   | 5.7  | 6.3  | 7.6  | 8.9  | 8.9  |
| 67.5° | 5.7  | 6.3  | 7.6  | 8.9  | 8.9  |
| 70°   | 5.7  | 6.3  | 7.6  | 8.3  | 8.3  |
| 72.5° | 5.1  | 5.7  | 7.0  | 8.3  | 8.3  |
| 75°   | 5.1  | 5.7  | 7.0  | 8.3  | 8.3  |
| 77.5° | 5.1  | 5.7  | 7.0  | 8.3  | 8.3  |
| 80°   | 5.1  | 5.7  | 7.0  | 7.6  | 8.3  |
| 82.5° | 4.5  | 5.7  | 6.3  | 7.6  | 7.6  |
| 85°   | 4.5  | 5.1  | 6.3  | 7.0  | 7.6  |
| 87.5° | 3.8  | 4.5  | 5.1  | 6.3  | 6.3  |
| 90°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

(END OF REPORT)