

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: P162338

Luminaire Tested: **EMM-E04-LED-E1-SL2-HSS-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P162338
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: EMM-E04-LED-E1-SL2-HSS-7050
Description: EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (84) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7155.3 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

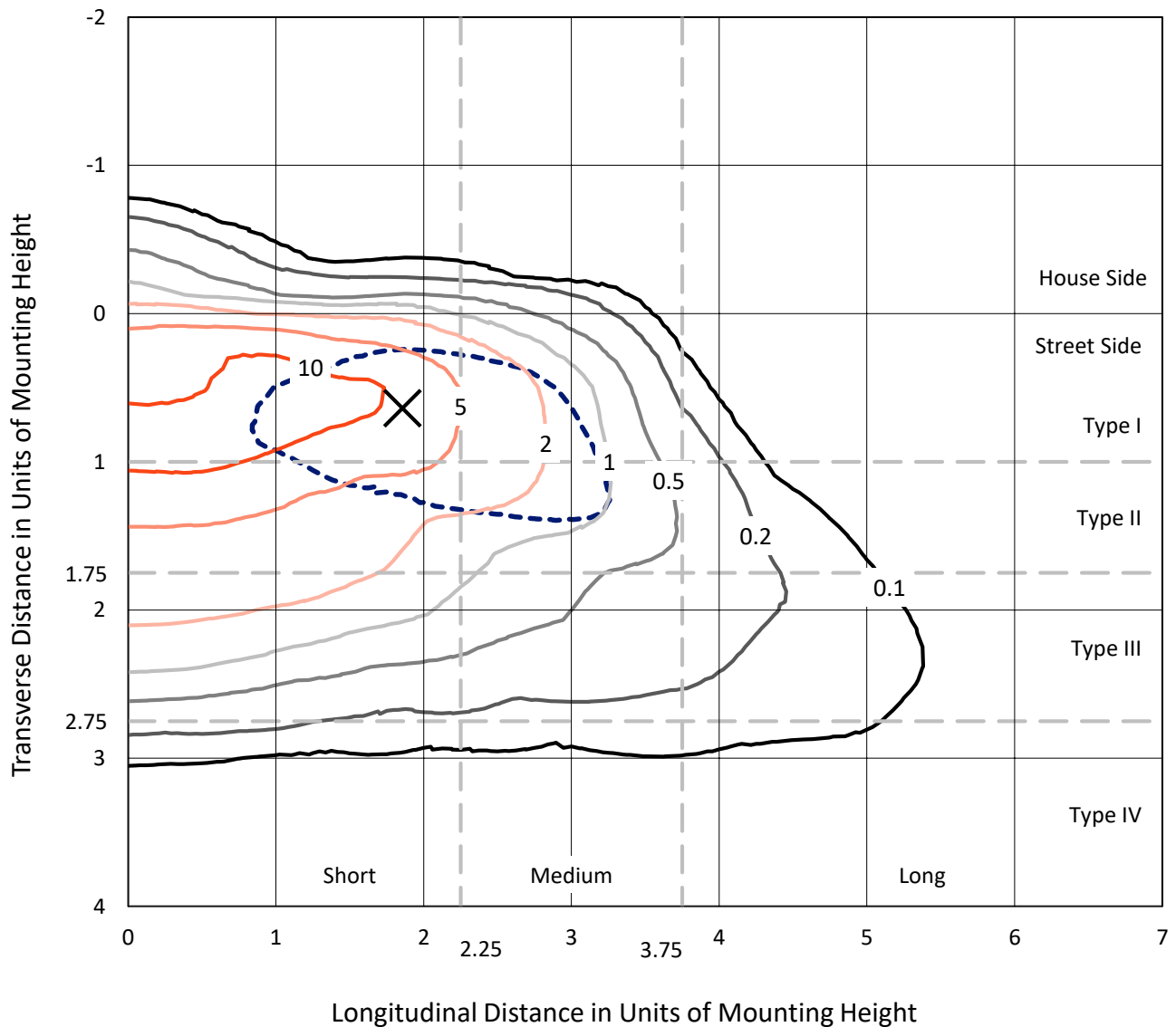
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

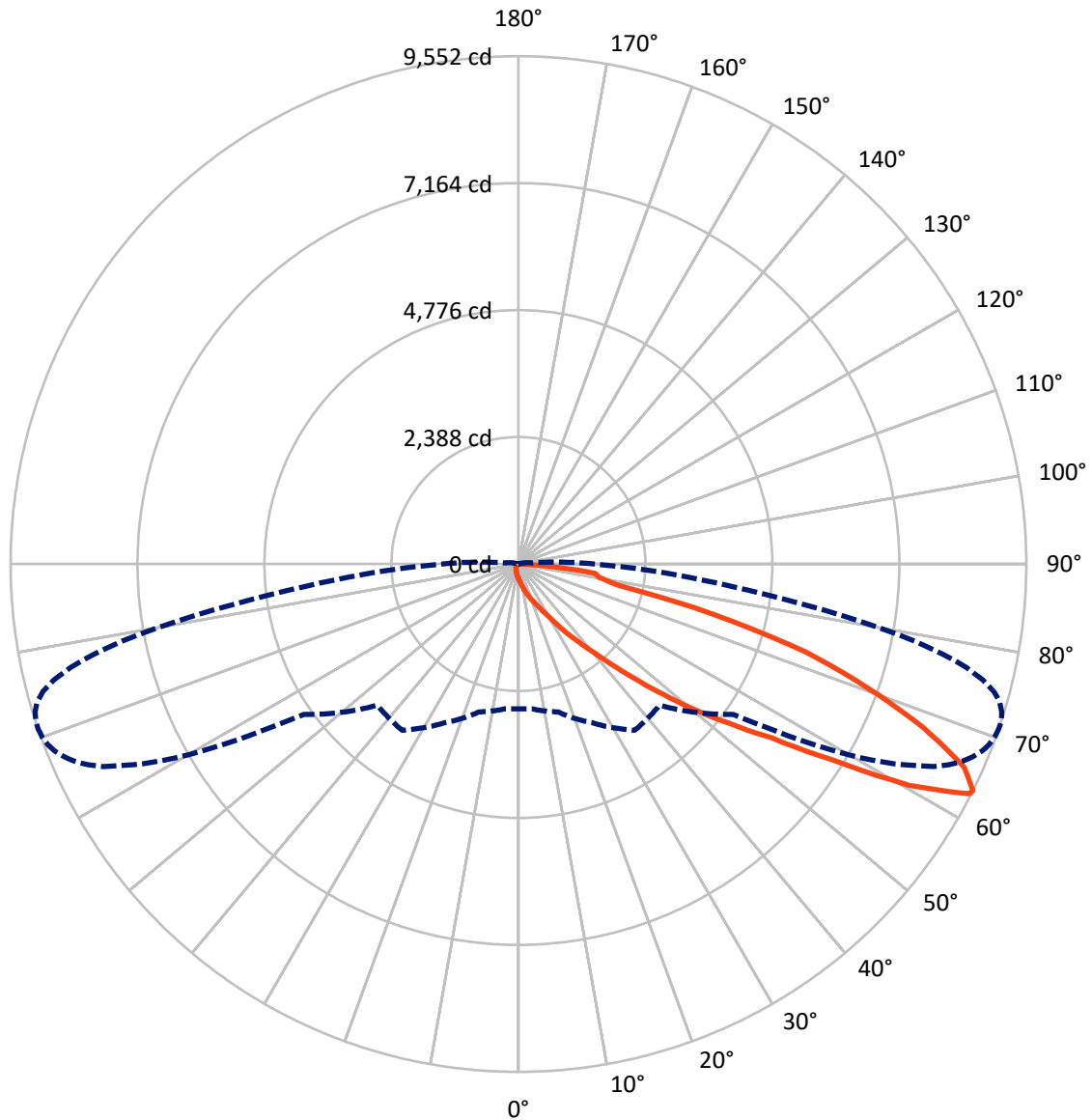
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.1 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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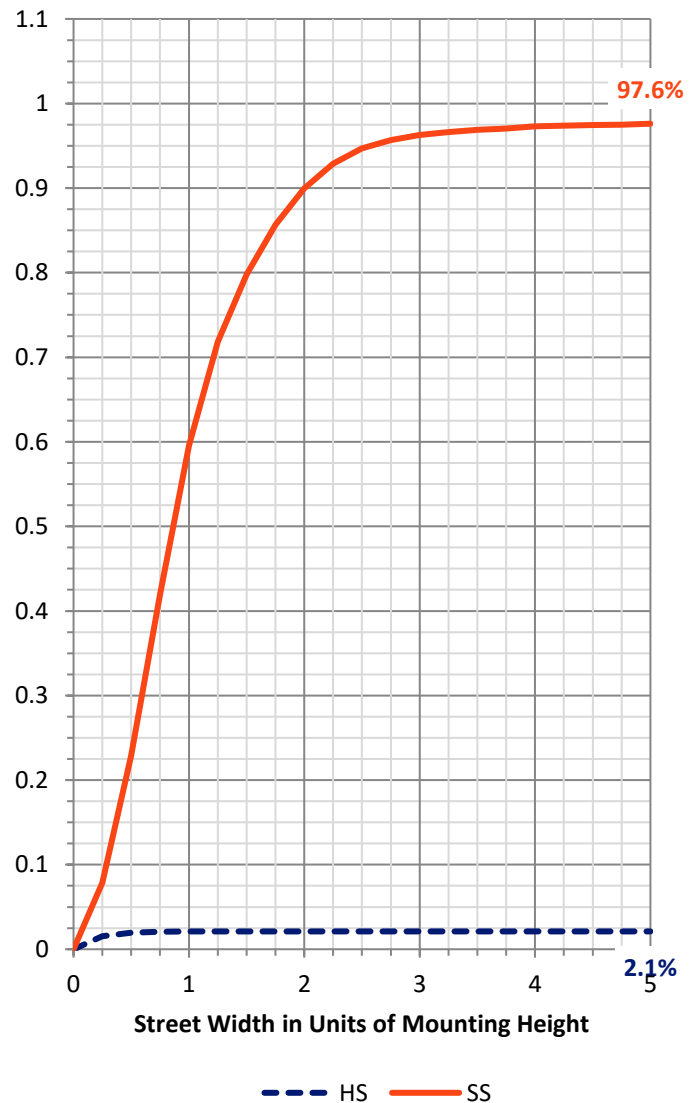
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 152.0 | 0.0 | 152.0 |
| | % Fixture | 2.1 | 0.0 | 2.1 |
| Street Side | Lumens | 7003.3 | 0.0 | 7003.3 |
| | % Fixture | 97.9 | 0.0 | 97.9 |
| Total | Lumens | 7155.3 | 0.0 | 7155.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 30.3 | 0.4 |
| 10°-20° | 117.6 | 1.6 |
| 20°-30° | 239.0 | 3.3 |
| 30°-40° | 583.8 | 8.2 |
| 40°-50° | 1305.7 | 18.2 |
| 50°-60° | 1836.0 | 25.7 |
| 60°-70° | 2158.9 | 30.2 |
| 70°-80° | 779.6 | 10.9 |
| 80°-90° | 104.3 | 1.5 |
| 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° | 7155.3 | 100.0 |
| 0°-180° | 7155.3 | 100.0 |



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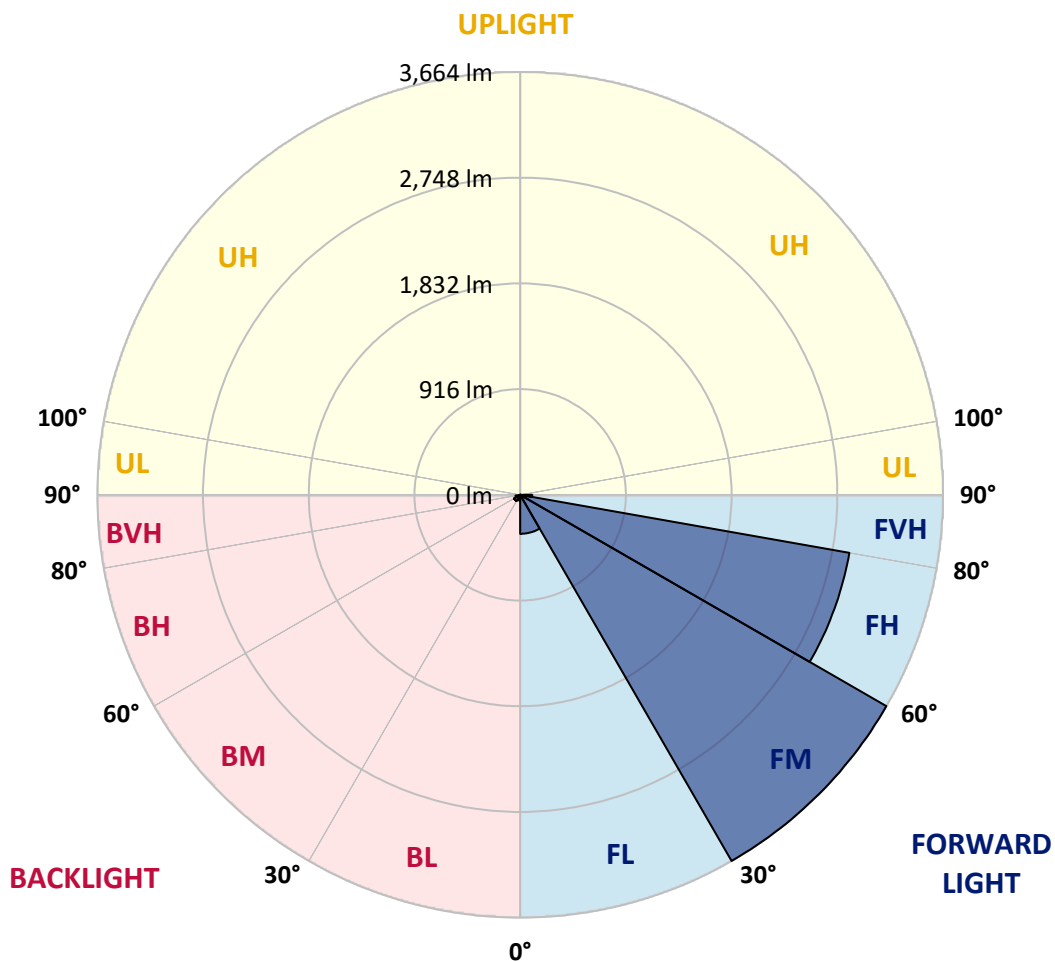
CATALOG NUMBER: EMM-E04-LED-E1-SL2-HSS-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 338.1 | 4.7 | | | |
| FM | (30°-60°) | 3664.3 | 51.2 | | | |
| FH | (60°-80°) | 2896.9 | 40.5 | | | G2/5000 |
| FVH | (80°-90°) | 104.0 | 1.5 | | | G2/225 |
| BL | (0°-30°) | 48.8 | 0.7 | B0/110 | | |
| BM | (30°-60°) | 61.2 | 0.9 | B0/220 | | |
| BH | (60°-80°) | 41.7 | 0.6 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 0.2 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 |
| 2.5° | 359.0 | 363.0 | 360.4 | 353.8 | 346.0 | 335.6 | 326.4 | 326.4 | 325.2 | 321.2 | 322.6 |
| 5° | 470.9 | 472.1 | 466.9 | 451.3 | 437.1 | 415.0 | 390.2 | 387.6 | 385.0 | 381.2 | 379.8 |
| 7.5° | 580.1 | 585.3 | 580.1 | 563.3 | 534.7 | 500.7 | 461.7 | 457.9 | 450.1 | 450.1 | 444.9 |
| 10° | 692.0 | 692.0 | 686.8 | 667.2 | 641.2 | 593.1 | 543.7 | 537.3 | 528.1 | 525.5 | 517.7 |
| 12.5° | 771.4 | 771.4 | 768.8 | 758.4 | 737.6 | 694.6 | 634.8 | 628.3 | 616.6 | 612.7 | 603.6 |
| 15° | 802.6 | 802.6 | 803.9 | 812.9 | 814.3 | 794.8 | 732.4 | 727.2 | 715.4 | 705.0 | 701.2 |
| 17.5° | 822.1 | 820.7 | 820.7 | 833.7 | 857.3 | 870.3 | 829.9 | 824.7 | 811.7 | 806.5 | 793.5 |
| 20° | 865.1 | 862.5 | 854.5 | 854.5 | 876.7 | 922.3 | 922.3 | 920.9 | 906.7 | 902.7 | 896.3 |
| 22.5° | 928.7 | 926.1 | 902.7 | 883.3 | 893.7 | 950.9 | 1004.2 | 1001.6 | 996.4 | 991.2 | 987.3 |
| 25° | 1032.8 | 1023.6 | 983.4 | 926.1 | 917.1 | 978.2 | 1066.6 | 1073.2 | 1077.0 | 1077.0 | 1079.6 |
| 27.5° | 1190.1 | 1178.5 | 1107.0 | 1000.2 | 960.0 | 1022.4 | 1135.6 | 1148.6 | 1160.3 | 1162.9 | 1174.5 |
| 30° | 1408.8 | 1388.0 | 1285.2 | 1129.1 | 1036.8 | 1087.4 | 1237.1 | 1251.3 | 1268.3 | 1273.5 | 1291.7 |
| 32.5° | 1767.8 | 1756.0 | 1657.2 | 1423.0 | 1225.3 | 1214.9 | 1378.8 | 1397.0 | 1419.2 | 1428.2 | 1450.4 |
| 35° | 2314.1 | 2316.7 | 2236.1 | 2025.3 | 1752.2 | 1609.1 | 1632.5 | 1648.1 | 1655.9 | 1683.2 | 1694.9 |
| 37.5° | 2684.8 | 2691.3 | 2709.5 | 2626.3 | 2431.2 | 2285.5 | 2102.0 | 2119.0 | 2078.6 | 2082.6 | 2083.8 |
| 40° | 2887.7 | 2908.5 | 3015.2 | 3095.8 | 3080.2 | 2995.7 | 2848.7 | 2857.8 | 2782.4 | 2765.4 | 2683.5 |
| 42.5° | 3023.0 | 3050.3 | 3220.7 | 3470.4 | 3597.9 | 3674.7 | 3640.9 | 3636.9 | 3578.4 | 3556.3 | 3487.4 |
| 45° | 3107.6 | 3132.2 | 3346.9 | 3715.0 | 4008.9 | 4232.8 | 4325.1 | 4335.5 | 4286.1 | 4263.9 | 4206.8 |
| 47.5° | 3103.6 | 3132.2 | 3362.5 | 3806.0 | 4239.2 | 4597.0 | 4857.0 | 4870.0 | 4900.0 | 4880.6 | 4884.4 |
| 50° | 2931.9 | 2959.3 | 3190.8 | 3651.3 | 4171.6 | 4763.5 | 5239.6 | 5281.2 | 5329.3 | 5361.7 | 5377.3 |
| 52.5° | 2723.8 | 2743.4 | 2948.9 | 3385.9 | 3882.8 | 4694.5 | 5465.9 | 5537.4 | 5609.0 | 5670.1 | 5712.9 |
| 55° | 2647.1 | 2669.2 | 2830.5 | 3193.4 | 3651.3 | 4405.7 | 5571.2 | 5676.6 | 5778.1 | 5878.2 | 5960.2 |
| 57.5° | 2687.4 | 2708.2 | 2824.0 | 3102.4 | 3513.4 | 4101.3 | 5601.2 | 5765.1 | 5931.6 | 6094.1 | 6255.4 |
| 60° | 2835.7 | 2857.8 | 2956.7 | 3186.9 | 3477.0 | 3925.7 | 5484.1 | 5755.9 | 6033.0 | 6316.6 | 6583.2 |
| 62.5° | 2777.2 | 2786.2 | 2931.9 | 3335.1 | 3737.1 | 3776.2 | 5058.7 | 5438.5 | 5861.3 | 6298.4 | 6728.9 |
| 63° | 2721.2 | 2731.6 | 2879.9 | 3294.9 | 3816.4 | 3754.0 | 4927.4 | 5327.9 | 5774.1 | 6245.0 | 6713.3 |
| 65° | 2467.6 | 2468.8 | 2582.1 | 2909.9 | 3728.0 | 3793.0 | 4341.9 | 4724.5 | 5237.0 | 5801.5 | 6393.3 |
| 67.5° | 1841.9 | 1832.8 | 1942.1 | 2191.8 | 2926.7 | 3794.4 | 3726.7 | 3941.3 | 4297.7 | 4798.6 | 5329.3 |
| 70° | 653.0 | 638.6 | 815.5 | 1161.6 | 1823.7 | 3103.6 | 3202.5 | 3216.8 | 3315.7 | 3586.2 | 3919.2 |
| 72.5° | 212.1 | 215.9 | 260.2 | 425.4 | 840.3 | 2089.0 | 2899.4 | 2855.2 | 2829.2 | 2827.9 | 2872.1 |
| 75° | 84.6 | 85.9 | 104.1 | 188.7 | 377.2 | 1006.8 | 2539.1 | 2563.8 | 2572.9 | 2585.9 | 2600.3 |
| 77.5° | 40.4 | 44.2 | 58.6 | 105.3 | 187.3 | 498.1 | 1817.2 | 2026.6 | 2146.3 | 2238.7 | 2294.5 |
| 80° | 14.4 | 17.0 | 32.6 | 65.0 | 87.2 | 228.9 | 957.4 | 1155.1 | 1330.7 | 1557.1 | 1752.2 |
| 82.5° | 0.0 | 0.0 | 6.6 | 45.6 | 48.2 | 92.3 | 392.8 | 460.5 | 526.9 | 682.8 | 876.7 |
| 85° | 0.0 | 0.0 | 0.0 | 13.0 | 14.4 | 15.6 | 132.7 | 159.9 | 179.5 | 209.5 | 241.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 4.0 | 7.8 | 19.6 | 30.0 |
| 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: EMM-E04-LED-E1-SL2-HSS-7050

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 64° | 65° | 66° | 67° | 68° | 69° | 70° | 71° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 |
| 2.5° | 320.0 | 318.6 | 318.6 | 316.0 | 314.8 | 312.2 | 310.8 | 307.0 | 305.6 | 305.6 | 305.6 |
| 5° | 378.6 | 373.4 | 370.8 | 364.2 | 360.4 | 359.0 | 352.6 | 350.0 | 346.0 | 347.4 | 340.8 |
| 7.5° | 443.6 | 434.5 | 430.6 | 421.4 | 418.8 | 409.8 | 407.2 | 400.6 | 396.8 | 389.0 | 386.4 |
| 10° | 515.1 | 503.3 | 496.9 | 482.5 | 478.7 | 472.1 | 464.3 | 456.5 | 450.1 | 442.3 | 438.4 |
| 12.5° | 597.1 | 586.7 | 581.5 | 561.9 | 552.9 | 543.7 | 533.3 | 522.9 | 512.5 | 505.9 | 496.9 |
| 15° | 693.4 | 676.4 | 671.2 | 653.0 | 637.4 | 625.7 | 611.4 | 598.3 | 590.5 | 577.5 | 568.5 |
| 17.5° | 788.3 | 771.4 | 767.4 | 740.2 | 723.2 | 715.4 | 699.8 | 682.8 | 668.6 | 655.6 | 641.2 |
| 20° | 883.3 | 871.5 | 861.1 | 835.1 | 816.9 | 803.9 | 783.1 | 766.2 | 754.4 | 736.2 | 718.0 |
| 22.5° | 978.2 | 966.5 | 958.7 | 931.3 | 914.5 | 896.3 | 878.1 | 859.9 | 842.9 | 820.7 | 800.0 |
| 25° | 1075.8 | 1068.0 | 1064.0 | 1039.4 | 1023.6 | 1006.8 | 988.6 | 967.8 | 947.0 | 922.3 | 900.1 |
| 27.5° | 1177.1 | 1179.7 | 1171.9 | 1166.8 | 1149.9 | 1138.2 | 1109.6 | 1095.2 | 1079.6 | 1049.8 | 1022.4 |
| 30° | 1306.0 | 1313.8 | 1311.2 | 1315.1 | 1304.7 | 1296.9 | 1274.7 | 1256.5 | 1238.3 | 1209.7 | 1178.5 |
| 32.5° | 1468.6 | 1479.0 | 1484.2 | 1498.5 | 1493.3 | 1490.7 | 1484.2 | 1458.2 | 1445.2 | 1395.8 | 1382.8 |
| 35° | 1719.6 | 1714.4 | 1736.6 | 1748.2 | 1743.0 | 1740.4 | 1732.6 | 1718.4 | 1702.7 | 1667.6 | 1635.1 |
| 37.5° | 2046.1 | 2051.3 | 2059.2 | 2035.7 | 2020.1 | 2018.8 | 1995.4 | 1981.1 | 1958.9 | 1919.9 | 1880.9 |
| 40° | 2644.5 | 2611.9 | 2575.5 | 2476.6 | 2433.8 | 2409.0 | 2340.1 | 2320.6 | 2282.9 | 2229.5 | 2189.2 |
| 42.5° | 3422.3 | 3389.8 | 3280.5 | 3115.4 | 3026.9 | 2904.6 | 2848.7 | 2779.8 | 2726.4 | 2639.3 | 2592.5 |
| 45° | 4195.0 | 4101.3 | 4088.3 | 3895.8 | 3786.6 | 3625.3 | 3525.2 | 3409.3 | 3288.3 | 3173.9 | 3090.6 |
| 47.5° | 4846.6 | 4825.8 | 4762.1 | 4645.1 | 4543.6 | 4408.3 | 4279.5 | 4101.3 | 3976.5 | 3813.8 | 3664.3 |
| 50° | 5368.3 | 5366.9 | 5343.5 | 5276.0 | 5191.4 | 5082.1 | 4968.9 | 4818.0 | 4676.3 | 4477.2 | 4317.3 |
| 52.5° | 5758.5 | 5779.3 | 5787.1 | 5766.3 | 5733.9 | 5637.6 | 5580.4 | 5454.1 | 5334.5 | 5165.4 | 4992.3 |
| 55° | 6044.7 | 6121.5 | 6160.5 | 6204.7 | 6195.6 | 6161.8 | 6159.1 | 6077.3 | 6022.6 | 5888.6 | 5766.3 |
| 57.5° | 6398.5 | 6524.7 | 6645.6 | 6860.3 | 6868.1 | 6943.6 | 6982.6 | 7021.6 | 7032.0 | 6978.6 | 6938.4 |
| 60° | 6848.6 | 7106.1 | 7335.0 | 7783.8 | 7900.9 | 8085.6 | 8205.3 | 8335.4 | 8445.9 | 8455.0 | 8452.4 |
| 62.5° | 7165.9 | 7562.7 | 7932.1 | 8598.1 | 8825.7 | 9039.0 | 9199.1 | 9325.2 | 9402.0 | 9480.0 | 9516.5 |
| 63° | 7175.1 | 7609.5 | 8002.4 | 8689.2 | 8928.5 | 9131.4 | 9283.7 | 9400.6 | 9481.4 | 9528.1 | 9551.5 |
| 65° | 6955.2 | 7482.1 | 7950.3 | 8634.5 | 8859.5 | 9063.8 | 9143.1 | 9219.9 | 9258.9 | 9277.1 | 9208.1 |
| 67.5° | 5895.0 | 6410.1 | 6956.6 | 7721.4 | 7913.9 | 8158.5 | 8223.5 | 8262.5 | 8280.7 | 8276.8 | 8218.3 |
| 70° | 4408.3 | 4840.2 | 5447.7 | 6321.8 | 6576.7 | 6816.1 | 6964.4 | 7028.1 | 7048.9 | 7042.4 | 6955.2 |
| 72.5° | 3077.6 | 3331.3 | 3832.0 | 4805.0 | 5152.4 | 5459.3 | 5642.8 | 5737.7 | 5757.3 | 5718.1 | 5637.6 |
| 75° | 2584.7 | 2597.7 | 2710.8 | 3242.8 | 3568.0 | 3895.8 | 4102.6 | 4162.4 | 4123.4 | 4005.1 | 3799.6 |
| 77.5° | 2307.5 | 2336.2 | 2336.2 | 2415.6 | 2479.2 | 2570.3 | 2589.9 | 2444.2 | 2275.1 | 2056.6 | 1879.6 |
| 80° | 1935.5 | 2035.7 | 2106.0 | 2164.5 | 2171.0 | 2152.8 | 2104.6 | 2022.7 | 1892.7 | 1726.2 | 1541.5 |
| 82.5° | 1175.9 | 1373.6 | 1454.2 | 1756.0 | 1904.3 | 2004.5 | 1996.7 | 1887.5 | 1788.6 | 1615.5 | 1458.2 |
| 85° | 296.6 | 320.0 | 347.4 | 451.3 | 505.9 | 617.9 | 688.2 | 720.6 | 732.4 | 672.4 | 608.8 |
| 87.5° | 28.6 | 19.6 | 32.6 | 24.8 | 35.2 | 26.0 | 35.2 | 32.6 | 40.4 | 43.0 | 46.8 |
| 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: EMM-E04-LED-E1-SL2-HSS-7050

CANDELA DISTRIBUTION (continued):

| | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | 81° | 82° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 |
| 2.5° | 303.0 | 301.8 | 300.4 | 299.2 | 297.8 | 296.6 | 294.0 | 294.0 | 291.4 | 290.0 | 288.8 |
| 5° | 336.8 | 334.2 | 333.0 | 330.4 | 326.4 | 323.8 | 320.0 | 314.8 | 310.8 | 309.6 | 307.0 |
| 7.5° | 379.8 | 373.4 | 370.8 | 366.8 | 361.6 | 353.8 | 348.6 | 344.8 | 338.2 | 334.2 | 326.4 |
| 10° | 428.0 | 421.4 | 413.6 | 405.8 | 398.0 | 389.0 | 382.4 | 377.2 | 366.8 | 361.6 | 352.6 |
| 12.5° | 489.1 | 477.3 | 468.3 | 457.9 | 447.5 | 437.1 | 429.3 | 413.6 | 404.6 | 392.8 | 385.0 |
| 15° | 551.5 | 541.1 | 530.7 | 517.7 | 502.1 | 485.1 | 477.3 | 463.1 | 451.3 | 433.2 | 422.8 |
| 17.5° | 627.0 | 607.5 | 591.9 | 576.3 | 561.9 | 546.3 | 530.7 | 508.5 | 491.7 | 476.1 | 455.3 |
| 20° | 701.2 | 677.6 | 660.8 | 640.0 | 619.2 | 594.5 | 576.3 | 560.7 | 537.3 | 516.5 | 494.3 |
| 22.5° | 780.5 | 757.0 | 729.8 | 709.0 | 680.2 | 660.8 | 636.0 | 610.1 | 586.7 | 559.3 | 532.1 |
| 25° | 876.7 | 851.9 | 820.7 | 793.5 | 761.0 | 733.6 | 703.8 | 673.8 | 645.2 | 614.0 | 578.9 |
| 27.5° | 995.0 | 969.1 | 935.3 | 902.7 | 859.9 | 825.9 | 797.4 | 757.0 | 720.6 | 681.6 | 641.2 |
| 30° | 1144.7 | 1116.1 | 1074.4 | 1027.6 | 984.7 | 947.0 | 906.7 | 853.3 | 812.9 | 766.2 | 714.2 |
| 32.5° | 1339.8 | 1306.0 | 1250.1 | 1205.9 | 1152.5 | 1103.0 | 1047.2 | 993.8 | 936.5 | 875.5 | 815.5 |
| 35° | 1585.7 | 1554.5 | 1489.4 | 1424.4 | 1365.8 | 1307.3 | 1237.1 | 1175.9 | 1095.2 | 1021.0 | 944.4 |
| 37.5° | 1840.6 | 1784.6 | 1724.8 | 1654.6 | 1581.7 | 1511.5 | 1425.6 | 1341.1 | 1248.7 | 1168.1 | 1071.8 |
| 40° | 2132.0 | 2064.4 | 2014.9 | 1939.5 | 1836.7 | 1736.6 | 1657.2 | 1551.9 | 1436.0 | 1328.1 | 1214.9 |
| 42.5° | 2531.3 | 2455.8 | 2367.4 | 2252.9 | 2178.8 | 2061.8 | 1958.9 | 1834.1 | 1681.9 | 1560.9 | 1424.4 |
| 45° | 2993.1 | 2890.3 | 2804.4 | 2693.9 | 2604.1 | 2458.4 | 2338.8 | 2172.3 | 2020.1 | 1861.4 | 1694.9 |
| 47.5° | 3520.0 | 3392.4 | 3267.5 | 3158.2 | 3015.2 | 2872.1 | 2719.9 | 2543.0 | 2347.9 | 2173.6 | 1975.9 |
| 50° | 4124.8 | 3943.9 | 3771.0 | 3630.5 | 3434.0 | 3268.9 | 3103.6 | 2904.6 | 2688.7 | 2488.4 | 2263.3 |
| 52.5° | 4797.2 | 4587.8 | 4358.9 | 4143.0 | 3915.3 | 3703.3 | 3504.2 | 3275.3 | 3034.7 | 2790.2 | 2539.1 |
| 55° | 5609.0 | 5451.5 | 5182.2 | 4907.8 | 4603.4 | 4319.9 | 4063.7 | 3780.0 | 3487.4 | 3166.0 | 2902.0 |
| 57.5° | 6879.8 | 6803.1 | 6578.0 | 6303.6 | 5906.8 | 5562.0 | 5127.7 | 4780.3 | 4356.3 | 3914.0 | 3573.2 |
| 60° | 8602.0 | 8507.1 | 8380.8 | 8158.5 | 7843.7 | 7375.4 | 6896.7 | 6356.9 | 5711.7 | 5099.1 | 4517.6 |
| 62.5° | 9520.3 | 9486.6 | 9383.8 | 9230.3 | 8936.3 | 8566.9 | 8084.3 | 7491.1 | 6762.7 | 6018.7 | 5277.2 |
| 63° | 9547.7 | 9504.7 | 9416.4 | 9260.3 | 9001.4 | 8643.6 | 8170.1 | 7593.9 | 6881.1 | 6122.7 | 5365.7 |
| 65° | 9178.3 | 9161.3 | 9071.6 | 8901.3 | 8724.2 | 8451.1 | 8084.3 | 7588.7 | 6990.4 | 6273.6 | 5520.4 |
| 67.5° | 8140.3 | 8089.5 | 7951.6 | 7899.6 | 7776.0 | 7586.1 | 7306.4 | 6965.6 | 6537.7 | 5974.4 | 5324.1 |
| 70° | 6885.0 | 6809.5 | 6636.6 | 6544.2 | 6393.3 | 6273.6 | 6103.3 | 5860.0 | 5596.0 | 5203.0 | 4717.9 |
| 72.5° | 5554.2 | 5398.3 | 5239.6 | 4998.9 | 4788.1 | 4574.8 | 4386.3 | 4214.6 | 3924.4 | 3765.8 | 3397.6 |
| 75° | 3607.1 | 3323.5 | 3051.6 | 2687.4 | 2359.6 | 2069.6 | 1787.2 | 1644.2 | 1346.3 | 1225.3 | 1052.4 |
| 77.5° | 1711.8 | 1553.1 | 1339.8 | 1174.5 | 963.9 | 787.0 | 642.6 | 482.5 | 378.6 | 296.6 | 226.3 |
| 80° | 1381.4 | 1247.5 | 1118.7 | 969.1 | 810.3 | 646.4 | 495.5 | 370.8 | 262.8 | 182.1 | 128.7 |
| 82.5° | 1231.9 | 1086.2 | 927.5 | 824.7 | 716.8 | 586.7 | 481.3 | 392.8 | 290.0 | 212.1 | 144.3 |
| 85° | 478.7 | 403.2 | 310.8 | 253.7 | 197.7 | 162.5 | 146.9 | 101.5 | 79.4 | 62.4 | 48.2 |
| 87.5° | 41.6 | 33.8 | 27.4 | 18.2 | 19.6 | 10.4 | 11.8 | 7.8 | 6.6 | 6.6 | 5.2 |
| 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: P162338

CATALOG NUMBER: EMM-E04-LED-E1-SL2-HSS-7050

CANDELA DISTRIBUTION (continued):

| | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° | 95° | 105° | 115° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0° | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 |
| 2.5° | 287.4 | 286.2 | 284.8 | 282.2 | 282.2 | 279.6 | 278.4 | 277.0 | 270.6 | 256.3 | 244.5 |
| 5° | 301.8 | 299.2 | 296.6 | 292.6 | 290.0 | 286.2 | 283.6 | 279.6 | 265.4 | 238.1 | 214.7 |
| 7.5° | 322.6 | 317.4 | 313.4 | 305.6 | 301.8 | 296.6 | 292.6 | 286.2 | 262.8 | 221.1 | 188.7 |
| 10° | 347.4 | 338.2 | 331.6 | 322.6 | 314.8 | 308.2 | 301.8 | 292.6 | 260.2 | 202.9 | 165.1 |
| 12.5° | 377.2 | 366.8 | 353.8 | 343.4 | 333.0 | 323.8 | 314.8 | 303.0 | 256.3 | 187.3 | 146.9 |
| 15° | 407.2 | 391.6 | 382.4 | 368.2 | 353.8 | 340.8 | 327.8 | 317.4 | 257.6 | 170.3 | 131.3 |
| 17.5° | 441.0 | 425.4 | 405.8 | 390.2 | 374.6 | 357.8 | 342.0 | 321.2 | 251.1 | 157.3 | 119.7 |
| 20° | 473.5 | 451.3 | 433.2 | 413.6 | 391.6 | 370.8 | 351.2 | 333.0 | 245.9 | 144.3 | 109.3 |
| 22.5° | 508.5 | 482.5 | 459.1 | 434.5 | 407.2 | 383.8 | 360.4 | 336.8 | 236.7 | 132.7 | 100.1 |
| 25° | 551.5 | 521.7 | 487.7 | 457.9 | 429.3 | 400.6 | 370.8 | 342.0 | 227.7 | 122.3 | 93.7 |
| 27.5° | 603.6 | 564.5 | 530.7 | 492.9 | 452.7 | 416.2 | 383.8 | 352.6 | 218.5 | 114.5 | 87.2 |
| 30° | 669.8 | 624.4 | 576.3 | 528.1 | 485.1 | 443.6 | 398.0 | 359.0 | 209.5 | 106.7 | 80.6 |
| 32.5° | 758.4 | 701.2 | 642.6 | 586.7 | 529.5 | 476.1 | 428.0 | 377.2 | 204.3 | 100.1 | 74.2 |
| 35° | 875.5 | 801.3 | 729.8 | 659.4 | 590.5 | 525.5 | 463.1 | 405.8 | 204.3 | 92.3 | 66.4 |
| 37.5° | 986.0 | 900.1 | 809.1 | 722.0 | 640.0 | 564.5 | 490.3 | 421.4 | 193.9 | 85.9 | 59.8 |
| 40° | 1105.6 | 1002.8 | 896.3 | 793.5 | 694.6 | 601.0 | 516.5 | 437.1 | 184.7 | 78.0 | 53.4 |
| 42.5° | 1289.1 | 1159.0 | 1019.8 | 900.1 | 781.8 | 666.0 | 560.7 | 466.9 | 173.1 | 70.2 | 46.8 |
| 45° | 1529.7 | 1364.4 | 1200.7 | 1055.0 | 904.1 | 762.2 | 637.4 | 521.7 | 170.3 | 63.8 | 40.4 |
| 47.5° | 1787.2 | 1592.1 | 1399.6 | 1213.7 | 1036.8 | 871.5 | 722.0 | 582.7 | 170.3 | 57.2 | 35.2 |
| 50° | 2043.5 | 1799.0 | 1593.5 | 1377.6 | 1178.5 | 983.4 | 805.2 | 646.4 | 171.7 | 52.0 | 28.6 |
| 52.5° | 2275.1 | 2013.6 | 1783.4 | 1533.5 | 1313.8 | 1087.4 | 893.7 | 709.0 | 169.1 | 45.6 | 23.4 |
| 55° | 2596.3 | 2289.3 | 2022.7 | 1747.0 | 1489.4 | 1234.5 | 1014.6 | 802.6 | 170.3 | 40.4 | 19.6 |
| 57.5° | 3188.2 | 2827.9 | 2506.6 | 2145.0 | 1848.4 | 1519.3 | 1252.7 | 995.0 | 186.1 | 33.8 | 14.4 |
| 60° | 4037.7 | 3569.3 | 3118.0 | 2677.0 | 2299.7 | 1908.3 | 1562.3 | 1259.1 | 218.5 | 27.4 | 10.4 |
| 62.5° | 4608.6 | 3995.9 | 3457.4 | 2970.9 | 2532.6 | 2122.8 | 1745.6 | 1401.0 | 240.7 | 22.2 | 6.6 |
| 63° | 4667.1 | 4033.7 | 3492.6 | 2990.5 | 2543.0 | 2133.2 | 1753.4 | 1411.4 | 241.9 | 20.8 | 6.6 |
| 65° | 4777.7 | 4098.7 | 3512.2 | 2994.3 | 2532.6 | 2119.0 | 1748.2 | 1410.0 | 244.5 | 17.0 | 5.2 |
| 67.5° | 4651.5 | 3998.5 | 3398.9 | 2882.5 | 2441.6 | 2034.4 | 1683.2 | 1358.0 | 243.3 | 11.8 | 4.0 |
| 70° | 4159.8 | 3618.7 | 3092.0 | 2610.7 | 2210.0 | 1841.9 | 1532.3 | 1238.3 | 223.7 | 7.8 | 2.6 |
| 72.5° | 3054.2 | 2686.1 | 2277.7 | 1930.3 | 1665.0 | 1382.8 | 1179.7 | 930.1 | 173.1 | 5.2 | 1.4 |
| 75° | 905.3 | 824.7 | 693.4 | 611.4 | 539.9 | 446.2 | 396.8 | 309.6 | 88.5 | 2.6 | 0.0 |
| 77.5° | 180.9 | 163.9 | 146.9 | 133.9 | 126.1 | 107.9 | 102.7 | 84.6 | 36.4 | 1.4 | 0.0 |
| 80° | 94.9 | 78.0 | 66.4 | 58.6 | 50.8 | 41.6 | 35.2 | 28.6 | 6.6 | 0.0 | 0.0 |
| 82.5° | 91.1 | 61.2 | 44.2 | 36.4 | 31.2 | 24.8 | 19.6 | 14.4 | 4.0 | 0.0 | 0.0 |
| 85° | 33.8 | 26.0 | 19.6 | 15.6 | 13.0 | 11.8 | 9.2 | 7.8 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.2 | 4.0 | 4.0 | 2.6 | 2.6 | 1.4 | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 |
| 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: P162338

CATALOG NUMBER: EMM-E04-LED-E1-SL2-HSS-7050

CANDELA DISTRIBUTION (continued):

| | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 |
| 2.5° | 232.9 | 222.5 | 217.3 | 210.7 | 210.7 | 209.5 | 212.1 |
| 5° | 193.9 | 179.5 | 169.1 | 161.3 | 162.5 | 158.7 | 159.9 |
| 7.5° | 163.9 | 149.5 | 140.5 | 135.3 | 133.9 | 132.7 | 132.7 |
| 10° | 141.7 | 128.7 | 120.9 | 117.1 | 115.7 | 115.7 | 115.7 |
| 12.5° | 126.1 | 113.1 | 106.7 | 104.1 | 104.1 | 102.7 | 102.7 |
| 15° | 113.1 | 102.7 | 96.3 | 93.7 | 93.7 | 92.3 | 93.7 |
| 17.5° | 102.7 | 92.3 | 87.2 | 84.6 | 84.6 | 83.2 | 83.2 |
| 20° | 93.7 | 84.6 | 79.4 | 75.4 | 75.4 | 74.2 | 75.4 |
| 22.5° | 85.9 | 76.8 | 70.2 | 67.6 | 66.4 | 65.0 | 66.4 |
| 25° | 78.0 | 69.0 | 62.4 | 58.6 | 57.2 | 57.2 | 56.0 |
| 27.5° | 71.6 | 62.4 | 54.6 | 50.8 | 49.4 | 49.4 | 48.2 |
| 30° | 65.0 | 54.6 | 46.8 | 43.0 | 41.6 | 41.6 | 41.6 |
| 32.5° | 58.6 | 46.8 | 40.4 | 36.4 | 35.2 | 35.2 | 35.2 |
| 35° | 52.0 | 40.4 | 33.8 | 30.0 | 28.6 | 28.6 | 28.6 |
| 37.5° | 44.2 | 33.8 | 26.0 | 23.4 | 22.2 | 20.8 | 20.8 |
| 40° | 37.8 | 26.0 | 19.6 | 17.0 | 14.4 | 14.4 | 14.4 |
| 42.5° | 31.2 | 20.8 | 14.4 | 10.4 | 9.2 | 7.8 | 9.2 |
| 45° | 26.0 | 15.6 | 9.2 | 5.2 | 4.0 | 4.0 | 4.0 |
| 47.5° | 20.8 | 10.4 | 4.0 | 1.4 | 1.4 | 1.4 | 1.4 |
| 50° | 15.6 | 6.6 | 1.4 | 0.0 | 0.0 | 1.4 | 1.4 |
| 52.5° | 11.8 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 6.6 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 63° | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)