

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: STREETWORKS

Report Number: P177462

Luminaire Tested: **VAL-F03-LED-E-U-GL3-HSS-7030**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P177462  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VAL-F03-LED-E-U-GL3-HSS-7030  
Description: VALET TUNNEL LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE III W/ GLARE CONTROL AND HOUSE SIDE SHIELD  
Light Source: (21) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 3804.2 lumens  
Efficiency: N/A  
Efficacy: 48.6 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 78.3  
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: 28.75 FT



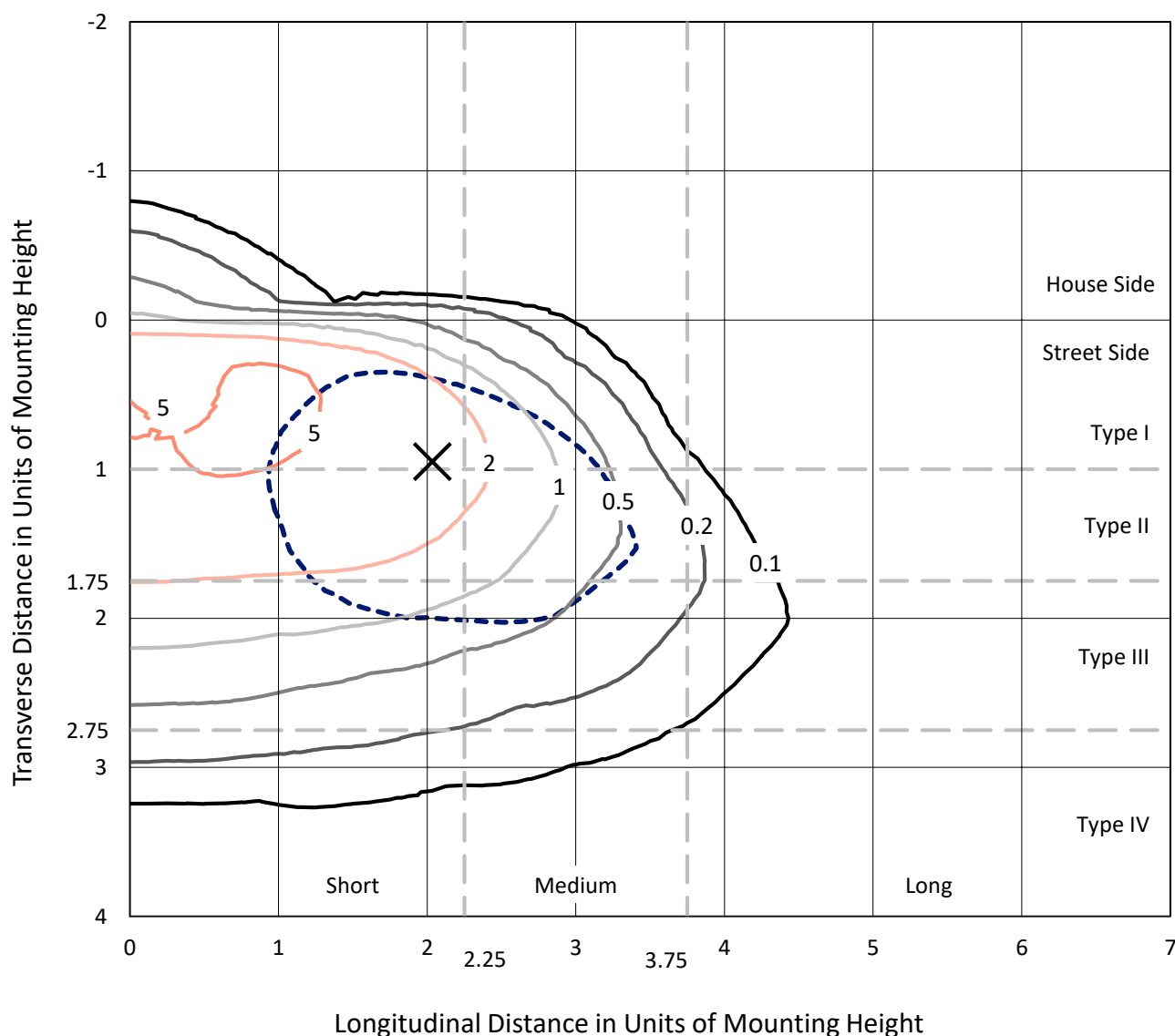
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

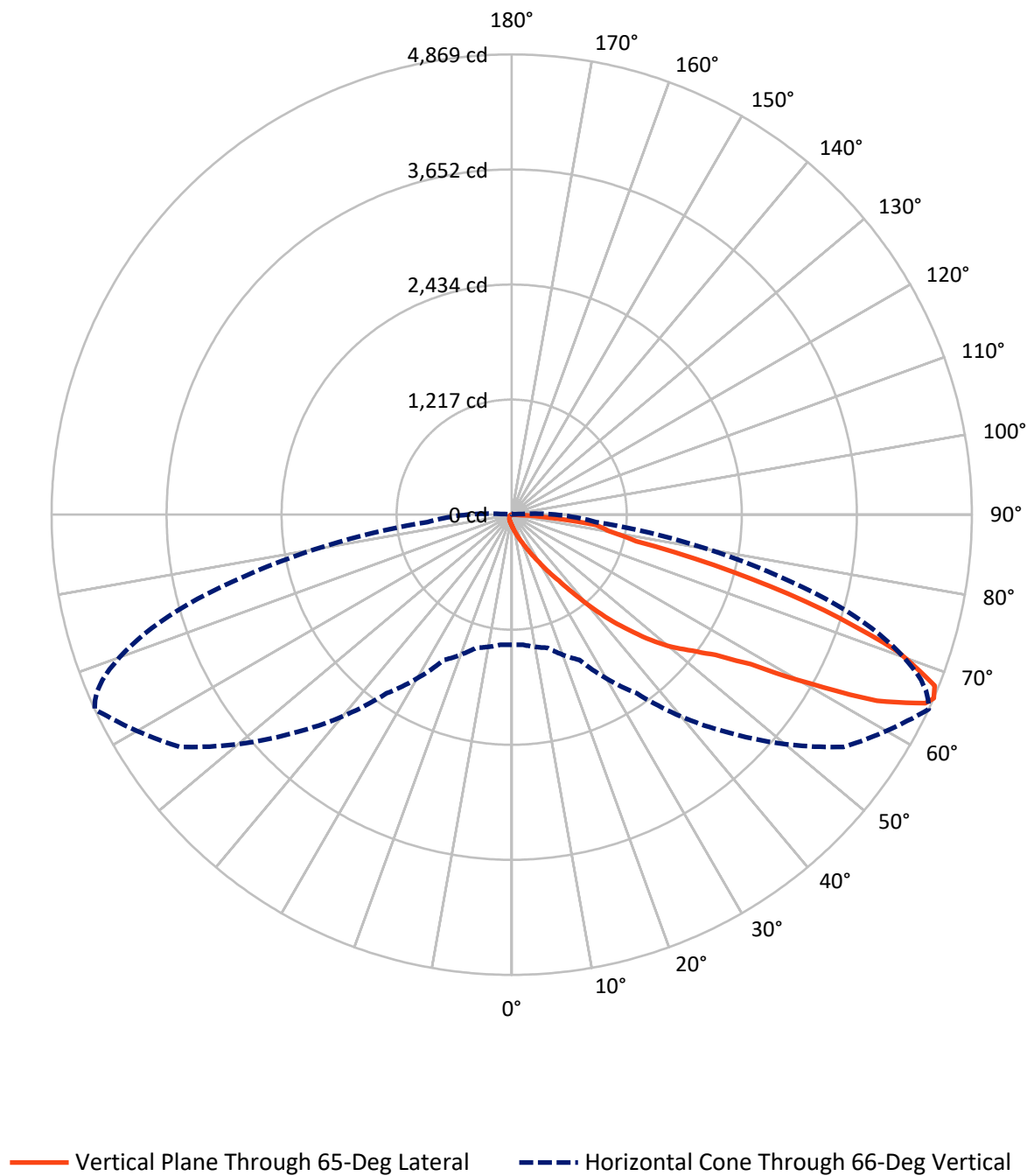


Based on 10 foot mounting height. Maximum calculated value = 6.3 fc  
 Type III - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 82.4     | 0.0    | 82.4   |
|                    | % Fixture | 2.2      | 0.0    | 2.2    |
| <b>Street Side</b> | Lumens    | 3721.7   | 0.0    | 3721.7 |
|                    | % Fixture | 97.8     | 0.0    | 97.8   |
| <b>Total</b>       | Lumens    | 3804.2   | 0.0    | 3804.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 12.9   | 0.3       |
| 10°-20°   | 54.5   | 1.4       |
| 20°-30°   | 117.6  | 3.1       |
| 30°-40°   | 251.0  | 6.6       |
| 40°-50°   | 555.2  | 14.6      |
| 50°-60°   | 940.8  | 24.7      |
| 60°-70°   | 1255.5 | 33.0      |
| 70°-80°   | 553.0  | 14.5      |
| 80°-90°   | 63.7   | 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°    | 3804.2 | 100.0     |
| 0°-180°   | 3804.2 | 100.0     |

**Coefficient of Utilization**



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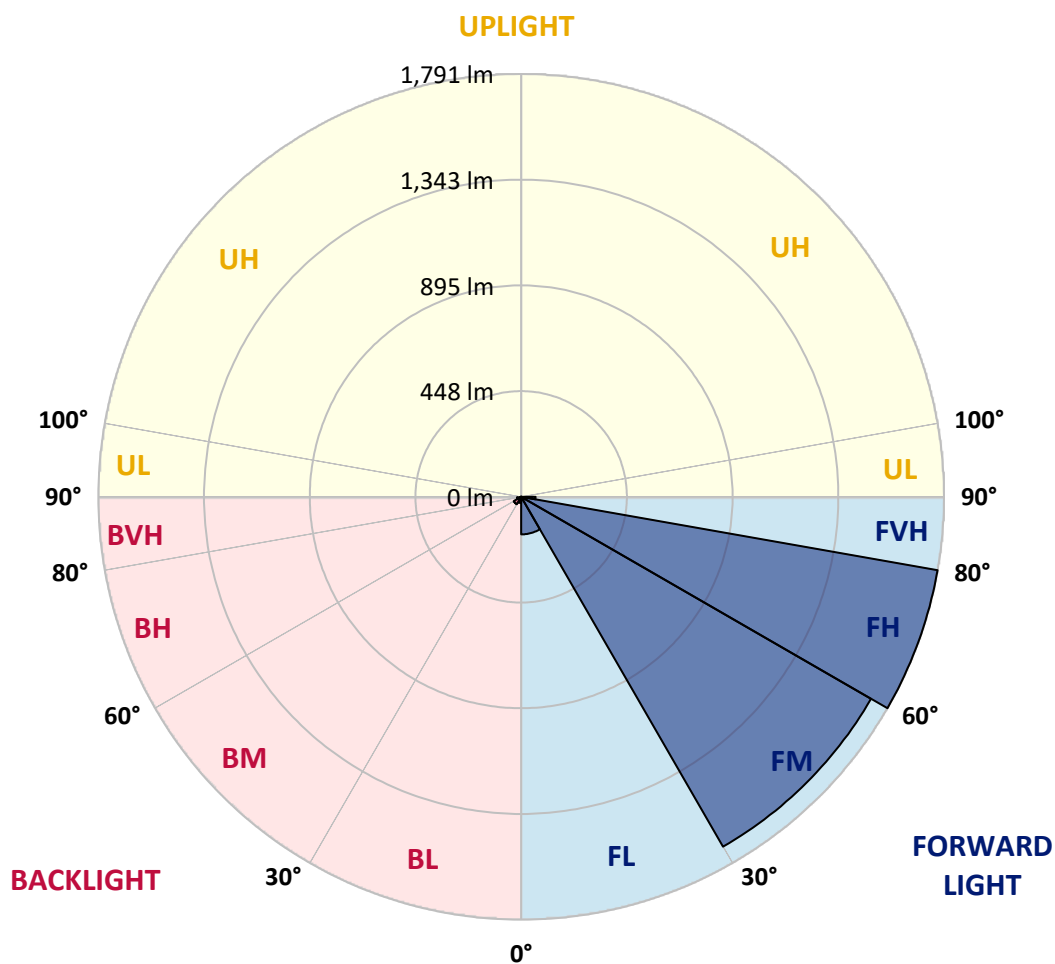
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 158.9  | 4.2       |                         |      |         |
| FM   | (30°-60°)   | 1710.9 | 45.0      |                         |      |         |
| FH   | (60°-80°)   | 1790.8 | 47.1      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 61.2   | 1.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 26.0   | 0.7       | B0/110                  |      |         |
| BM   | (30°-60°)   | 36.2   | 1.0       | B0/220                  |      |         |
| BH   | (60°-80°)   | 17.7   | 0.5       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 2.5    | 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°    | 114.8  | 114.8  | 114.8  | 114.8  | 114.8  | 114.8  | 114.8  | 114.8  | 114.8  | 114.8  | 114.8  |
| 2.5°  | 144.8  | 144.1  | 141.1  | 141.1  | 136.8  | 133.8  | 130.2  | 126.5  | 126.5  | 125.8  | 125.0  |
| 5°    | 191.6  | 187.2  | 186.5  | 178.5  | 171.9  | 162.4  | 153.6  | 141.9  | 140.4  | 139.0  | 138.2  |
| 7.5°  | 243.5  | 242.8  | 236.2  | 226.7  | 213.6  | 196.0  | 178.5  | 159.4  | 156.5  | 155.0  | 152.1  |
| 10°   | 310.8  | 307.2  | 298.4  | 282.3  | 262.6  | 239.1  | 210.6  | 180.6  | 177.0  | 174.1  | 172.6  |
| 12.5° | 375.2  | 368.6  | 363.5  | 343.0  | 318.1  | 283.8  | 249.4  | 206.2  | 203.3  | 199.6  | 193.8  |
| 15°   | 435.2  | 429.3  | 420.5  | 403.0  | 375.2  | 332.1  | 291.8  | 239.1  | 231.9  | 226.7  | 222.4  |
| 17.5° | 482.0  | 478.3  | 468.1  | 448.3  | 418.3  | 380.3  | 332.1  | 272.8  | 267.0  | 260.4  | 252.3  |
| 20°   | 526.6  | 521.5  | 505.4  | 478.3  | 446.2  | 416.9  | 379.6  | 316.7  | 308.6  | 300.6  | 291.8  |
| 22.5° | 569.0  | 563.9  | 537.5  | 492.9  | 458.5  | 446.2  | 433.0  | 366.4  | 354.0  | 347.4  | 338.6  |
| 25°   | 628.2  | 617.3  | 576.3  | 505.4  | 459.3  | 468.8  | 491.5  | 430.8  | 419.1  | 409.6  | 395.7  |
| 27.5° | 708.0  | 693.3  | 629.0  | 523.6  | 462.2  | 493.7  | 558.8  | 509.0  | 496.6  | 485.6  | 470.3  |
| 30°   | 797.9  | 788.4  | 711.6  | 567.5  | 483.4  | 530.3  | 634.1  | 608.5  | 593.9  | 580.7  | 562.4  |
| 32.5° | 888.6  | 875.4  | 799.4  | 650.9  | 540.5  | 601.2  | 728.4  | 724.1  | 705.1  | 692.6  | 672.8  |
| 35°   | 968.3  | 961.7  | 905.4  | 787.7  | 670.7  | 725.5  | 854.2  | 859.4  | 842.5  | 829.4  | 807.4  |
| 37.5° | 1022.5 | 1022.5 | 1011.5 | 934.7  | 877.6  | 918.6  | 1039.3 | 1040.0 | 1023.2 | 993.2  | 982.2  |
| 40°   | 1050.2 | 1058.3 | 1097.8 | 1112.4 | 1109.5 | 1162.2 | 1282.1 | 1268.9 | 1255.0 | 1239.7 | 1203.1 |
| 42.5° | 1107.3 | 1114.6 | 1198.7 | 1299.6 | 1365.5 | 1435.0 | 1517.6 | 1513.2 | 1496.4 | 1468.6 | 1435.0 |
| 45°   | 1203.8 | 1213.3 | 1313.5 | 1473.7 | 1609.0 | 1707.7 | 1760.4 | 1739.9 | 1723.1 | 1696.8 | 1679.2 |
| 47.5° | 1326.7 | 1345.0 | 1458.3 | 1656.5 | 1819.6 | 1982.7 | 2037.6 | 1983.5 | 1968.8 | 1948.4 | 1919.8 |
| 50°   | 1457.6 | 1475.2 | 1595.8 | 1822.6 | 2006.9 | 2201.4 | 2292.8 | 2201.4 | 2180.2 | 2173.6 | 2141.5 |
| 52.5° | 1571.0 | 1585.6 | 1701.9 | 1950.6 | 2150.2 | 2378.4 | 2511.5 | 2390.8 | 2375.5 | 2353.5 | 2330.1 |
| 55°   | 1638.3 | 1650.0 | 1758.9 | 2012.0 | 2247.5 | 2537.9 | 2722.9 | 2616.8 | 2594.2 | 2585.4 | 2551.7 |
| 57.5° | 1660.9 | 1672.6 | 1770.6 | 2020.0 | 2300.2 | 2683.4 | 2979.6 | 2983.2 | 2956.2 | 2924.7 | 2914.5 |
| 60°   | 1660.9 | 1674.1 | 1756.7 | 2000.3 | 2351.3 | 2838.4 | 3321.9 | 3626.9 | 3568.3 | 3562.5 | 3525.2 |
| 62.5° | 1592.2 | 1604.6 | 1688.0 | 1939.6 | 2420.1 | 3047.6 | 3798.7 | 4337.0 | 4320.2 | 4282.2 | 4220.7 |
| 65°   | 1443.0 | 1450.3 | 1532.2 | 1784.5 | 2393.8 | 3240.0 | 4211.9 | 4809.5 | 4782.4 | 4707.8 | 4628.8 |
| 66°   | 1375.7 | 1381.6 | 1458.3 | 1696.0 | 2307.4 | 3266.3 | 4285.1 | 4868.7 | 4824.1 | 4761.2 | 4672.0 |
| 67.5° | 1278.4 | 1288.7 | 1342.8 | 1531.5 | 2100.5 | 3174.9 | 4239.0 | 4827.0 | 4788.3 | 4712.2 | 4622.9 |
| 70°   | 853.5  | 846.2  | 1037.1 | 1175.3 | 1600.2 | 2586.8 | 3803.1 | 4334.1 | 4334.8 | 4299.0 | 4263.2 |
| 72.5° | 405.2  | 409.6  | 465.2  | 723.3  | 1047.3 | 1728.2 | 3027.1 | 3459.4 | 3509.1 | 3444.7 | 3400.1 |
| 75°   | 291.1  | 297.7  | 331.3  | 442.5  | 624.6  | 1037.1 | 1962.3 | 2419.4 | 2420.8 | 2306.7 | 2205.1 |
| 77.5° | 84.8   | 88.5   | 124.3  | 272.8  | 468.1  | 699.9  | 1127.1 | 1345.0 | 1313.5 | 1231.6 | 1154.8 |
| 80°   | 35.1   | 35.1   | 36.6   | 87.0   | 188.0  | 475.4  | 788.4  | 1035.6 | 1032.0 | 1000.5 | 955.1  |
| 82.5° | 13.2   | 13.9   | 17.6   | 35.8   | 44.6   | 117.0  | 525.9  | 898.9  | 896.6  | 852.0  | 819.9  |
| 85°   | 1.4    | 1.4    | 4.4    | 15.3   | 16.8   | 21.9   | 105.3  | 396.4  | 394.2  | 396.4  | 347.4  |
| 87.5° | 0.0    | 0.0    | 0.7    | 1.4    | 2.2    | 2.9    | 4.4    | 15.3   | 16.8   | 16.1   | 14.6   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    | 76°    | 77°    | 78°    | 79°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 114.8  | 114.8  | 114.8  | 114.8  | 114.8  | 114.8  | 114.8  | 114.8  | 114.8  | 114.8  | 114.8  |
| 2.5°  | 125.0  | 123.6  | 123.6  | 122.9  | 122.9  | 122.9  | 122.1  | 121.4  | 121.4  | 120.7  | 119.9  |
| 5°    | 136.8  | 135.3  | 134.6  | 133.1  | 132.4  | 131.6  | 130.2  | 129.4  | 128.0  | 127.3  | 126.5  |
| 7.5°  | 150.6  | 147.8  | 147.0  | 144.8  | 142.6  | 141.1  | 139.7  | 137.5  | 136.0  | 133.1  | 132.4  |
| 10°   | 168.2  | 164.5  | 161.6  | 158.7  | 156.5  | 152.9  | 150.6  | 147.8  | 144.8  | 142.6  | 140.4  |
| 12.5° | 190.9  | 185.8  | 181.4  | 178.5  | 173.3  | 168.9  | 164.5  | 162.4  | 156.5  | 153.6  | 149.9  |
| 15°   | 215.7  | 209.9  | 204.8  | 198.9  | 195.3  | 188.0  | 182.1  | 175.5  | 172.6  | 167.5  | 161.6  |
| 17.5° | 247.9  | 238.4  | 230.4  | 224.5  | 217.2  | 209.9  | 203.3  | 196.7  | 188.0  | 182.1  | 174.8  |
| 20°   | 282.3  | 274.2  | 263.3  | 253.1  | 244.3  | 235.5  | 226.0  | 217.2  | 209.2  | 199.6  | 190.9  |
| 22.5° | 326.2  | 314.5  | 301.3  | 291.1  | 279.4  | 269.9  | 256.7  | 245.0  | 231.9  | 219.4  | 209.2  |
| 25°   | 381.8  | 366.4  | 354.0  | 339.3  | 325.5  | 310.8  | 294.7  | 280.1  | 263.3  | 251.6  | 234.0  |
| 27.5° | 450.5  | 435.9  | 419.1  | 400.1  | 386.2  | 364.2  | 343.0  | 324.7  | 305.0  | 286.7  | 267.0  |
| 30°   | 538.3  | 517.1  | 499.5  | 481.3  | 453.4  | 432.2  | 407.4  | 382.5  | 355.4  | 337.2  | 307.2  |
| 32.5° | 643.6  | 620.9  | 594.6  | 568.3  | 542.7  | 512.7  | 482.0  | 451.3  | 421.3  | 387.6  | 356.9  |
| 35°   | 772.3  | 745.3  | 715.3  | 686.7  | 647.2  | 615.1  | 576.3  | 533.9  | 500.3  | 461.5  | 422.7  |
| 37.5° | 942.7  | 898.1  | 871.8  | 841.8  | 788.4  | 744.5  | 701.4  | 659.0  | 599.7  | 558.8  | 503.9  |
| 40°   | 1156.3 | 1129.9 | 1086.8 | 1038.5 | 990.2  | 932.5  | 874.0  | 817.7  | 748.9  | 691.9  | 628.2  |
| 42.5° | 1407.1 | 1368.4 | 1324.5 | 1255.0 | 1206.0 | 1138.0 | 1071.5 | 996.9  | 912.8  | 839.6  | 765.0  |
| 45°   | 1642.7 | 1596.6 | 1562.9 | 1493.4 | 1442.2 | 1361.8 | 1281.4 | 1202.4 | 1105.1 | 1010.7 | 924.4  |
| 47.5° | 1897.2 | 1859.1 | 1803.6 | 1747.2 | 1695.3 | 1604.6 | 1517.6 | 1421.8 | 1319.4 | 1207.5 | 1095.6 |
| 50°   | 2121.0 | 2091.0 | 2052.9 | 1984.9 | 1927.2 | 1851.1 | 1748.7 | 1644.1 | 1514.7 | 1403.5 | 1276.3 |
| 52.5° | 2311.1 | 2287.7 | 2234.3 | 2186.1 | 2134.1 | 2062.5 | 1971.0 | 1870.8 | 1731.1 | 1609.0 | 1464.2 |
| 55°   | 2535.6 | 2518.8 | 2472.0 | 2442.0 | 2395.9 | 2327.2 | 2241.6 | 2148.7 | 2001.0 | 1867.9 | 1704.1 |
| 57.5° | 2903.5 | 2890.4 | 2849.4 | 2837.0 | 2791.6 | 2731.7 | 2626.3 | 2526.9 | 2354.3 | 2189.0 | 2001.8 |
| 60°   | 3512.8 | 3486.4 | 3426.4 | 3395.7 | 3299.9 | 3219.5 | 3082.7 | 2946.0 | 2737.5 | 2526.9 | 2301.6 |
| 62.5° | 4165.1 | 4091.2 | 3977.1 | 3879.2 | 3743.1 | 3603.4 | 3420.6 | 3211.4 | 2967.1 | 2717.0 | 2458.1 |
| 65°   | 4516.9 | 4391.1 | 4247.0 | 4091.2 | 3915.0 | 3709.5 | 3479.1 | 3228.3 | 2965.7 | 2701.7 | 2428.1 |
| 66°   | 4557.1 | 4415.3 | 4262.4 | 4089.1 | 3893.0 | 3674.4 | 3440.3 | 3177.0 | 2904.2 | 2646.8 | 2373.3 |
| 67.5° | 4506.7 | 4358.2 | 4196.6 | 4004.2 | 3792.1 | 3565.4 | 3319.7 | 3046.1 | 2783.6 | 2522.5 | 2256.3 |
| 70°   | 4153.4 | 4005.7 | 3861.6 | 3659.0 | 3433.1 | 3204.9 | 2972.3 | 2666.6 | 2417.9 | 2178.0 | 1941.1 |
| 72.5° | 3316.7 | 3216.5 | 3073.9 | 2900.6 | 2680.4 | 2412.8 | 2219.0 | 1945.4 | 1729.7 | 1497.1 | 1313.5 |
| 75°   | 2072.7 | 1931.6 | 1755.3 | 1534.4 | 1366.2 | 1149.0 | 1035.6 | 827.9  | 705.1  | 597.5  | 493.7  |
| 77.5° | 1059.7 | 953.7  | 830.1  | 705.8  | 586.6  | 468.1  | 362.0  | 256.0  | 172.6  | 119.9  | 89.2   |
| 80°   | 875.4  | 781.8  | 679.5  | 566.1  | 460.8  | 357.6  | 257.5  | 175.5  | 111.9  | 73.2   | 57.0   |
| 82.5° | 723.3  | 644.3  | 552.9  | 447.6  | 356.2  | 280.8  | 195.3  | 127.3  | 79.0   | 51.2   | 40.2   |
| 85°   | 307.9  | 279.4  | 215.7  | 171.1  | 128.7  | 95.1   | 66.5   | 44.6   | 31.4   | 25.6   | 23.4   |
| 87.5° | 13.2   | 14.6   | 13.9   | 10.9   | 8.1    | 8.1    | 7.3    | 5.8    | 5.8    | 5.8    | 5.8    |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 80°    | 81°    | 82°    | 83°    | 84°    | 85°   | 95°   | 105°  | 115°  | 125°  | 135°  |
|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 0°    | 114.8  | 114.8  | 114.8  | 114.8  | 114.8  | 114.8 | 114.8 | 114.8 | 114.8 | 114.8 | 114.8 |
| 2.5°  | 119.9  | 119.2  | 118.5  | 118.5  | 117.8  | 117.0 | 112.6 | 109.0 | 104.6 | 101.7 | 98.7  |
| 5°    | 125.0  | 124.3  | 122.9  | 122.1  | 120.7  | 119.9 | 110.4 | 102.4 | 95.8  | 90.7  | 87.0  |
| 7.5°  | 130.2  | 129.4  | 127.3  | 125.0  | 124.3  | 122.9 | 107.5 | 97.3  | 88.5  | 82.7  | 79.0  |
| 10°   | 136.8  | 134.6  | 132.4  | 129.4  | 127.3  | 125.0 | 104.6 | 91.4  | 81.9  | 76.8  | 73.2  |
| 12.5° | 146.3  | 142.6  | 139.0  | 135.3  | 132.4  | 128.7 | 103.1 | 86.3  | 76.8  | 70.9  | 67.3  |
| 15°   | 157.3  | 152.1  | 147.8  | 143.4  | 138.2  | 134.6 | 100.2 | 81.9  | 72.4  | 66.5  | 62.2  |
| 17.5° | 167.5  | 161.6  | 155.0  | 148.5  | 143.4  | 138.2 | 97.3  | 77.5  | 68.0  | 62.2  | 57.8  |
| 20°   | 182.1  | 173.3  | 165.3  | 157.3  | 149.9  | 143.4 | 92.9  | 73.2  | 64.4  | 57.8  | 53.4  |
| 22.5° | 198.2  | 188.0  | 177.7  | 166.8  | 157.3  | 148.5 | 89.2  | 69.5  | 60.7  | 54.1  | 49.0  |
| 25°   | 218.7  | 206.2  | 192.4  | 178.5  | 167.5  | 155.8 | 85.5  | 65.8  | 57.0  | 50.4  | 45.3  |
| 27.5° | 247.2  | 229.6  | 214.3  | 196.7  | 179.9  | 166.8 | 82.7  | 62.9  | 53.4  | 46.8  | 41.7  |
| 30°   | 286.0  | 260.4  | 236.2  | 217.2  | 197.5  | 178.5 | 79.7  | 59.2  | 50.4  | 43.2  | 37.3  |
| 32.5° | 329.1  | 299.1  | 271.3  | 242.8  | 218.0  | 196.0 | 76.8  | 56.3  | 46.8  | 39.5  | 34.4  |
| 35°   | 382.5  | 344.5  | 307.2  | 274.2  | 244.3  | 215.0 | 73.9  | 53.4  | 43.9  | 35.8  | 30.7  |
| 37.5° | 459.3  | 411.8  | 362.8  | 320.3  | 281.6  | 242.8 | 71.7  | 50.4  | 40.2  | 32.2  | 27.1  |
| 40°   | 564.6  | 503.2  | 443.2  | 385.4  | 335.0  | 286.7 | 68.8  | 47.5  | 37.3  | 29.3  | 24.1  |
| 42.5° | 678.7  | 604.1  | 525.1  | 460.0  | 390.6  | 329.8 | 65.8  | 44.6  | 34.4  | 26.3  | 21.2  |
| 45°   | 820.6  | 727.7  | 631.9  | 543.4  | 458.5  | 380.3 | 62.9  | 41.7  | 30.7  | 23.4  | 18.3  |
| 47.5° | 975.6  | 857.2  | 748.9  | 637.7  | 536.8  | 443.2 | 59.2  | 39.5  | 27.8  | 20.5  | 16.1  |
| 50°   | 1135.1 | 1010.0 | 873.3  | 746.7  | 626.8  | 506.1 | 55.6  | 35.8  | 24.9  | 18.3  | 13.2  |
| 52.5° | 1307.0 | 1159.2 | 1019.5 | 862.3  | 722.6  | 588.7 | 51.9  | 32.9  | 22.7  | 16.1  | 10.9  |
| 55°   | 1525.6 | 1360.4 | 1196.5 | 1020.2 | 852.0  | 684.6 | 48.3  | 29.3  | 19.7  | 13.9  | 8.8   |
| 57.5° | 1800.6 | 1604.6 | 1403.5 | 1204.5 | 1000.5 | 810.3 | 45.3  | 25.6  | 16.8  | 11.7  | 7.3   |
| 60°   | 2060.3 | 1831.3 | 1587.8 | 1358.9 | 1128.5 | 906.9 | 40.9  | 22.7  | 14.6  | 9.5   | 7.3   |
| 62.5° | 2194.8 | 1933.7 | 1671.2 | 1418.8 | 1173.1 | 941.3 | 36.6  | 19.0  | 12.4  | 8.1   | 6.6   |
| 65°   | 2161.9 | 1895.7 | 1641.2 | 1386.7 | 1146.1 | 919.3 | 32.2  | 16.8  | 10.9  | 7.3   | 6.6   |
| 66°   | 2114.4 | 1851.1 | 1595.1 | 1353.0 | 1123.4 | 895.9 | 30.0  | 16.1  | 10.2  | 7.3   | 5.8   |
| 67.5° | 2010.5 | 1756.0 | 1511.7 | 1286.5 | 1061.2 | 851.3 | 27.1  | 14.6  | 9.5   | 6.6   | 5.8   |
| 70°   | 1717.3 | 1486.1 | 1290.9 | 1090.5 | 906.9  | 717.5 | 21.9  | 12.4  | 8.1   | 5.8   | 5.8   |
| 72.5° | 1136.6 | 979.3  | 849.1  | 730.6  | 610.7  | 473.9 | 18.3  | 10.2  | 6.6   | 5.8   | 5.1   |
| 75°   | 428.6  | 387.6  | 332.8  | 299.1  | 261.1  | 228.9 | 14.6  | 6.6   | 5.1   | 5.1   | 5.1   |
| 77.5° | 76.0   | 70.2   | 62.2   | 57.0   | 52.7   | 48.3  | 11.7  | 4.4   | 4.4   | 5.1   | 5.1   |
| 80°   | 51.2   | 47.5   | 43.2   | 39.5   | 36.6   | 32.9  | 8.1   | 3.7   | 4.4   | 4.4   | 5.1   |
| 82.5° | 36.6   | 34.4   | 32.2   | 29.3   | 27.1   | 24.1  | 5.1   | 3.7   | 4.4   | 4.4   | 4.4   |
| 85°   | 21.9   | 20.5   | 19.0   | 17.6   | 15.3   | 14.6  | 3.7   | 3.7   | 3.7   | 4.4   | 4.4   |
| 87.5° | 5.8    | 5.1    | 5.8    | 5.8    | 4.4    | 5.1   | 2.9   | 2.9   | 2.9   | 3.7   | 3.7   |
| 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: P177462

CATALOG NUMBER: VAL-F03-LED-E-U-GL3-HSS-7030

**CANDELA DISTRIBUTION (continued):**

|       | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|
| 0°    | 114.8 | 114.8 | 114.8 | 114.8 | 114.8 |
| 2.5°  | 97.3  | 97.3  | 95.8  | 98.0  | 98.0  |
| 5°    | 84.1  | 84.1  | 83.4  | 84.1  | 84.1  |
| 7.5°  | 76.8  | 76.0  | 76.0  | 76.0  | 76.8  |
| 10°   | 70.2  | 69.5  | 69.5  | 69.5  | 69.5  |
| 12.5° | 64.4  | 63.6  | 62.9  | 63.6  | 63.6  |
| 15°   | 59.2  | 57.8  | 57.8  | 57.8  | 57.8  |
| 17.5° | 54.8  | 53.4  | 52.7  | 52.7  | 52.7  |
| 20°   | 50.4  | 48.3  | 48.3  | 48.3  | 48.3  |
| 22.5° | 46.1  | 43.9  | 43.9  | 43.9  | 43.9  |
| 25°   | 41.7  | 39.5  | 39.5  | 39.5  | 39.5  |
| 27.5° | 38.0  | 35.8  | 35.8  | 35.8  | 35.8  |
| 30°   | 33.7  | 32.2  | 32.2  | 32.9  | 32.2  |
| 32.5° | 30.7  | 28.5  | 28.5  | 29.3  | 29.3  |
| 35°   | 27.1  | 25.6  | 25.6  | 25.6  | 25.6  |
| 37.5° | 23.4  | 21.9  | 21.9  | 21.9  | 21.9  |
| 40°   | 20.5  | 19.0  | 18.3  | 19.0  | 19.0  |
| 42.5° | 17.6  | 16.1  | 15.3  | 15.3  | 15.3  |
| 45°   | 15.3  | 13.2  | 12.4  | 13.2  | 13.2  |
| 47.5° | 12.4  | 10.9  | 10.9  | 11.7  | 11.7  |
| 50°   | 9.5   | 9.5   | 10.2  | 11.7  | 11.7  |
| 52.5° | 8.8   | 8.8   | 10.2  | 11.7  | 11.7  |
| 55°   | 8.1   | 8.8   | 10.2  | 10.9  | 11.7  |
| 57.5° | 7.3   | 8.8   | 10.2  | 10.9  | 10.9  |
| 60°   | 7.3   | 8.1   | 9.5   | 10.9  | 10.9  |
| 62.5° | 6.6   | 7.3   | 8.8   | 10.2  | 10.2  |
| 65°   | 6.6   | 7.3   | 8.8   | 10.2  | 10.2  |
| 66°   | 6.6   | 7.3   | 8.8   | 10.2  | 10.2  |
| 67.5° | 6.6   | 7.3   | 8.8   | 10.2  | 10.2  |
| 70°   | 6.6   | 7.3   | 8.8   | 9.5   | 9.5   |
| 72.5° | 5.8   | 6.6   | 8.1   | 9.5   | 9.5   |
| 75°   | 5.8   | 6.6   | 8.1   | 9.5   | 9.5   |
| 77.5° | 5.8   | 6.6   | 8.1   | 9.5   | 9.5   |
| 80°   | 5.8   | 6.6   | 8.1   | 8.8   | 9.5   |
| 82.5° | 5.1   | 6.6   | 7.3   | 8.8   | 8.8   |
| 85°   | 5.1   | 5.8   | 7.3   | 8.1   | 8.8   |
| 87.5° | 4.4   | 5.1   | 5.8   | 7.3   | 7.3   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)