

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P822510

Luminaire Tested: **PMM-SA2D-735-U-SLL**

Issue Date: 04/10/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P822510  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 04/10/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA2D-735-U-SLL  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS  
EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10763.7 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

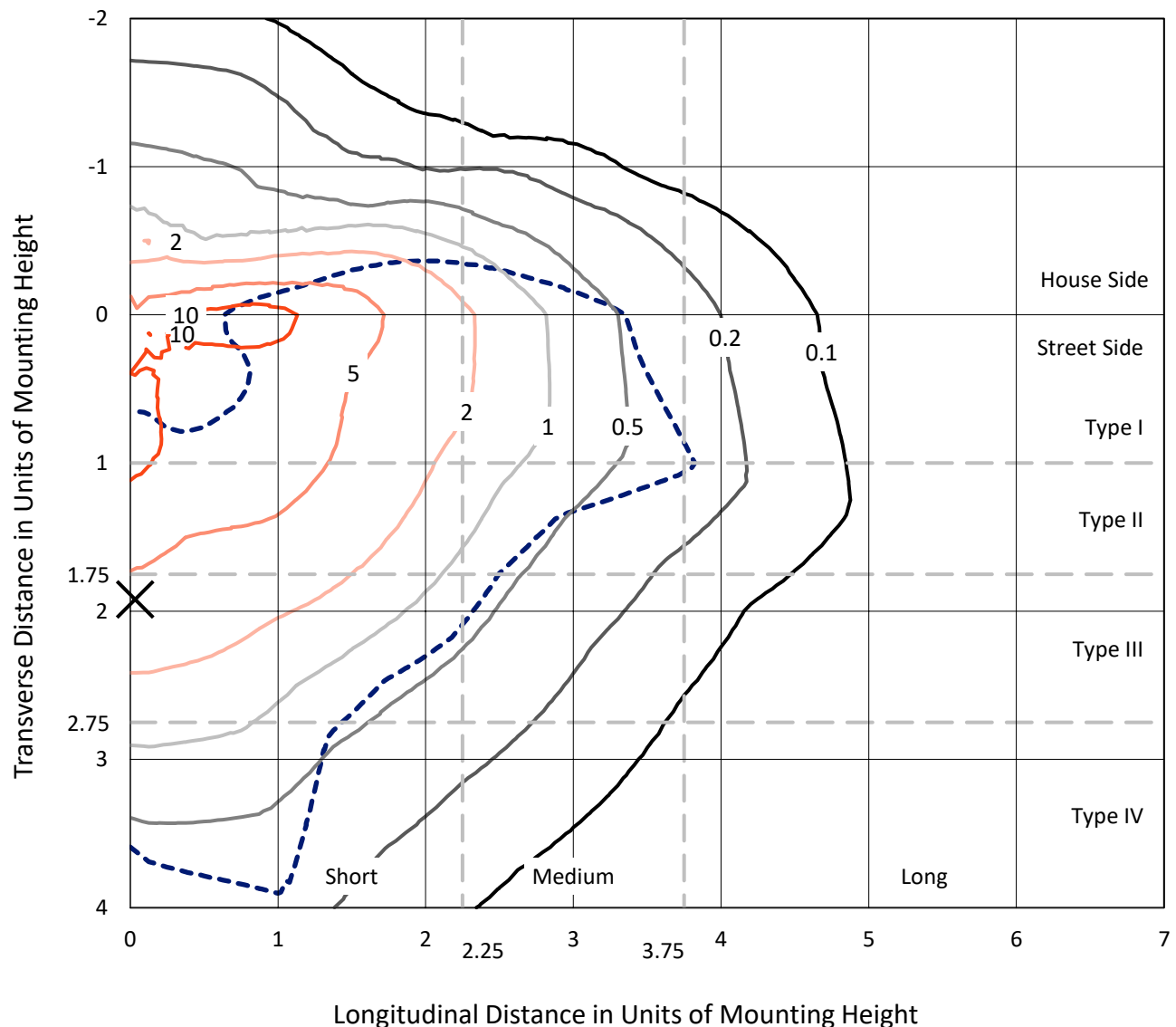
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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## Iso-Footcandle Lines of Horizontal Illumination

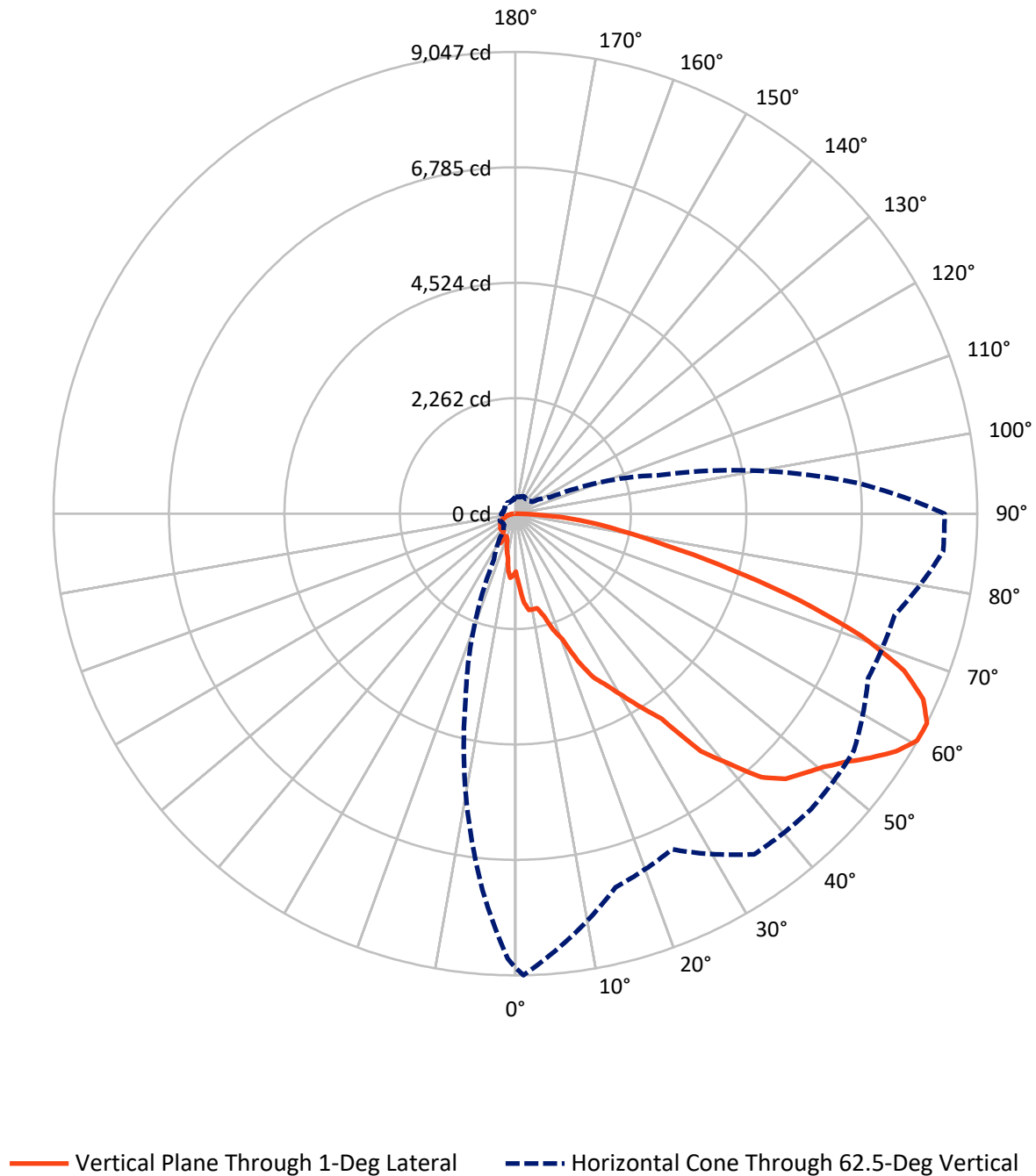
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 12.7 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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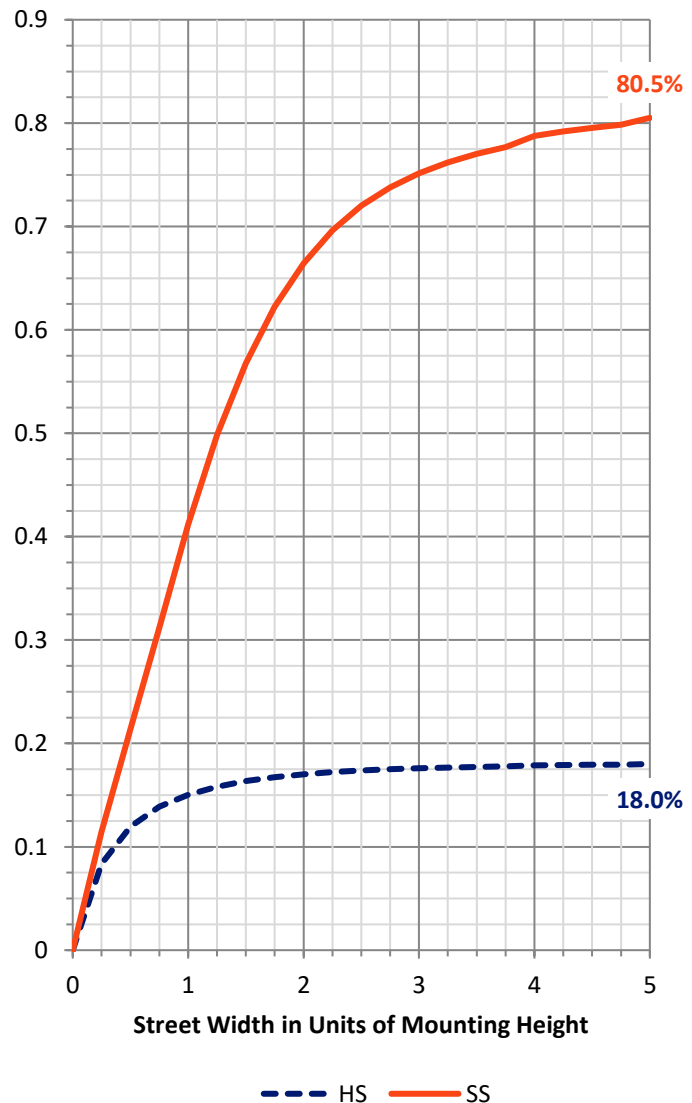
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1960.0   | 0.0    | 1960.0  |
|                    | % Fixture | 18.2     | 0.0    | 18.2    |
| <b>Street Side</b> | Lumens    | 8803.7   | 0.0    | 8803.7  |
|                    | % Fixture | 81.8     | 0.0    | 81.8    |
| <b>Total</b>       | Lumens    | 10763.7  | 0.0    | 10763.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 130.1   | 1.2       |
| 10°-20°   | 378.1   | 3.5       |
| 20°-30°   | 667.5   | 6.2       |
| 30°-40°   | 1039.8  | 9.7       |
| 40°-50°   | 1712.1  | 15.9      |
| 50°-60°   | 2443.6  | 22.7      |
| 60°-70°   | 2591.2  | 24.1      |
| 70°-80°   | 1431.2  | 13.3      |
| 80°-90°   | 370.2   | 3.4       |
| 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°    | 10763.7 | 100.0     |
| 0°-180°   | 10763.7 | 100.0     |

**Coefficient of Utilization**



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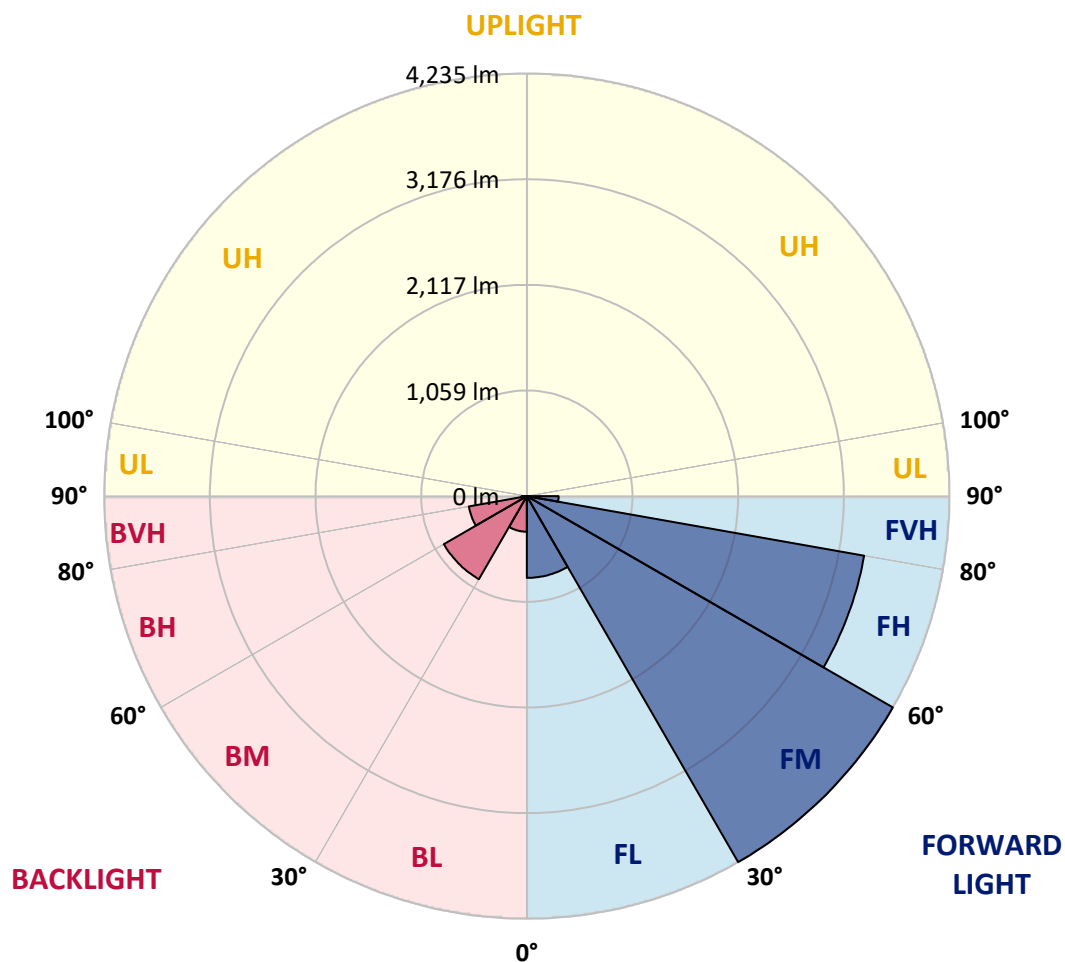
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 819.3  | 7.6       |                         |      |         |
| FM   | (30°-60°)   | 4234.5 | 39.3      |                         |      |         |
| FH   | (60°-80°)   | 3431.9 | 31.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 318.0  | 3.0       |                         |      | G3/500  |
| BL   | (0°-30°)    | 356.5  | 3.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 960.8  | 8.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 590.5  | 5.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 52.2   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1135.1 | 1135.1 | 1135.1 | 1135.1 | 1135.1 | 1135.1 | 1135.1 | 1135.1 | 1135.1 | 1135.1 | 1135.1 |
| 2.5°  | 1395.6 | 1407.6 | 1383.1 | 1355.5 | 1241.1 | 1351.3 | 1318.4 | 1379.5 | 1359.7 | 1226.9 | 1469.9 |
| 5°    | 1724.8 | 1746.7 | 1722.6 | 1805.7 | 1810.9 | 1832.4 | 1634.4 | 1757.6 | 1714.8 | 1703.8 | 1826.6 |
| 7.5°  | 1883.5 | 1906.0 | 1967.1 | 2114.9 | 2230.3 | 2125.9 | 2010.5 | 1984.9 | 1951.4 | 1864.2 | 1938.4 |
| 10°   | 1893.5 | 1906.0 | 1987.9 | 2301.4 | 2357.2 | 2431.5 | 2356.8 | 2180.7 | 2108.1 | 1918.5 | 1862.1 |
| 12.5° | 1863.7 | 1902.9 | 2008.9 | 2390.7 | 2556.8 | 2637.7 | 2656.1 | 2460.2 | 2282.0 | 2065.8 | 2037.1 |
| 15°   | 2063.7 | 2077.8 | 2229.8 | 2454.4 | 2568.8 | 2637.3 | 2696.8 | 2576.2 | 2520.3 | 2348.9 | 2118.6 |
| 17.5° | 2350.5 | 2389.6 | 2514.0 | 2597.0 | 2674.3 | 2687.4 | 2638.3 | 2591.2 | 2502.5 | 2731.3 | 2486.3 |
| 20°   | 2544.8 | 2620.5 | 2773.1 | 2788.7 | 2626.3 | 2655.0 | 2648.2 | 2651.3 | 2600.7 | 3023.8 | 2889.0 |
| 22.5° | 3058.7 | 3140.8 | 3161.7 | 3070.7 | 2764.7 | 2633.5 | 2659.7 | 2735.5 | 2935.0 | 3297.5 | 3450.0 |
| 25°   | 3524.1 | 3556.0 | 3746.7 | 3512.7 | 3024.8 | 2739.1 | 2696.2 | 2892.2 | 3217.6 | 3758.2 | 3866.8 |
| 27.5° | 3767.0 | 3808.3 | 3935.3 | 3426.0 | 3057.2 | 2603.3 | 2503.0 | 2801.2 | 3133.0 | 3541.4 | 4018.3 |
| 30°   | 4077.8 | 4143.7 | 4316.6 | 3512.7 | 3154.9 | 2692.0 | 2470.1 | 2755.3 | 3122.0 | 3683.5 | 4339.0 |
| 32.5° | 4398.0 | 4526.0 | 4654.5 | 3818.3 | 3141.3 | 2827.9 | 2680.6 | 2703.6 | 3221.2 | 3981.2 | 4671.2 |
| 35°   | 4822.1 | 4935.0 | 5045.7 | 3994.8 | 3415.0 | 2941.2 | 2795.0 | 3038.4 | 3476.1 | 4326.4 | 5134.5 |
| 37.5° | 5728.9 | 5907.6 | 5615.6 | 4497.3 | 3712.7 | 3452.0 | 3188.3 | 3332.4 | 3745.6 | 4614.2 | 5891.3 |
| 40°   | 6306.7 | 6440.8 | 6158.8 | 4839.4 | 4237.1 | 3796.3 | 3753.0 | 3765.0 | 4117.0 | 4860.8 | 6400.7 |
| 42.5° | 6880.6 | 7062.5 | 6613.7 | 5309.0 | 4871.2 | 4507.2 | 4283.6 | 4268.5 | 4532.8 | 5303.7 | 6979.9 |
| 45°   | 7309.0 | 7416.0 | 6769.9 | 5704.8 | 5551.3 | 5281.2 | 5113.6 | 4847.8 | 5079.2 | 5610.4 | 7338.2 |
| 47.5° | 7512.7 | 7599.9 | 7021.2 | 5935.2 | 5992.1 | 6006.3 | 6308.7 | 5855.3 | 5556.5 | 5817.7 | 7526.2 |
| 50°   | 7767.0 | 7808.3 | 7168.9 | 6137.9 | 6411.1 | 7030.6 | 7103.2 | 6334.8 | 6021.4 | 6043.8 | 7637.5 |
| 52.5° | 8071.0 | 8088.2 | 7384.7 | 6371.9 | 6834.7 | 7704.3 | 7592.1 | 7147.5 | 6463.8 | 6457.0 | 7847.0 |
| 55°   | 8453.3 | 8442.9 | 7655.2 | 6686.8 | 7137.1 | 8105.0 | 8019.9 | 7696.0 | 6945.9 | 6799.2 | 8172.9 |
| 57.5° | 8793.4 | 8787.1 | 8014.1 | 6976.8 | 7391.5 | 8310.8 | 8335.9 | 8250.2 | 7273.9 | 7044.1 | 8526.0 |
| 60°   | 8960.0 | 9040.0 | 8422.6 | 7293.8 | 7407.7 | 8403.8 | 8413.2 | 8276.8 | 7640.6 | 7358.6 | 8620.0 |
| 62.5° | 8895.3 | 9047.2 | 8623.2 | 7579.0 | 7258.8 | 8149.9 | 8189.0 | 8095.0 | 7623.9 | 7688.7 | 8410.0 |
| 65°   | 8600.7 | 8776.1 | 8449.2 | 7731.0 | 7167.5 | 7724.7 | 7734.6 | 7497.0 | 7385.3 | 7907.5 | 7917.9 |
| 67.5° | 8048.1 | 8212.6 | 7895.5 | 7488.7 | 6541.7 | 6578.8 | 6800.2 | 6819.5 | 6656.6 | 7742.5 | 7227.0 |
| 70°   | 7080.7 | 7196.6 | 6998.2 | 6890.0 | 5467.7 | 5250.5 | 5490.8 | 5593.6 | 5667.8 | 7146.5 | 6397.5 |
| 72.5° | 5605.6 | 5829.7 | 5861.1 | 5931.6 | 4402.2 | 4040.3 | 4218.4 | 4065.8 | 4549.0 | 6082.5 | 5226.9 |
| 75°   | 4147.3 | 4336.4 | 4539.6 | 4932.9 | 3469.8 | 3024.8 | 3002.8 | 2925.0 | 3376.3 | 4891.6 | 3876.8 |
| 77.5° | 2930.8 | 3051.5 | 3207.6 | 3940.5 | 2618.4 | 2329.6 | 2343.2 | 2264.3 | 2438.3 | 3697.1 | 2678.0 |
| 80°   | 2100.9 | 2164.0 | 2236.6 | 2596.0 | 1931.6 | 2009.9 | 2012.0 | 1937.4 | 1813.0 | 2510.8 | 1787.4 |
| 82.5° | 1497.0 | 1546.1 | 1629.2 | 1712.2 | 1440.1 | 1647.4 | 1645.9 | 1641.2 | 1437.5 | 1697.0 | 1118.3 |
| 85°   | 833.6  | 899.5  | 1043.6 | 1341.3 | 1039.9 | 1177.8 | 1035.8 | 1140.7 | 1055.1 | 1129.8 | 566.2  |
| 87.5° | 58.5   | 52.3   | 233.5  | 777.2  | 485.3  | 354.7  | 185.9  | 368.3  | 472.2  | 590.3  | 78.9   |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1135.1 | 1135.1 | 1135.1 | 1135.1 | 1135.1 | 1135.1 | 1135.1 | 1135.1 | 1135.1 | 1135.1 | 1135.1 |
| 2.5°  | 1520.0 | 1538.3 | 1466.7 | 1359.1 | 1388.4 | 1356.5 | 1316.3 | 1253.6 | 1124.5 | 1204.5 | 1205.0 |
| 5°    | 1825.6 | 1756.1 | 1700.2 | 1647.4 | 1558.7 | 1424.4 | 1406.6 | 1299.0 | 1238.5 | 1270.3 | 1265.6 |
| 7.5°  | 1921.1 | 1822.4 | 1738.3 | 1549.7 | 1385.2 | 1176.8 | 1114.1 | 1050.4 | 1023.7 | 1101.1 | 1131.9 |
| 10°   | 1816.2 | 1713.2 | 1630.7 | 1401.4 | 1289.6 | 1159.6 | 987.2  | 898.9  | 846.7  | 867.0  | 879.1  |
| 12.5° | 1900.7 | 1795.8 | 1536.2 | 1408.2 | 1223.8 | 1144.4 | 993.5  | 864.0  | 786.6  | 805.5  | 783.0  |
| 15°   | 1982.3 | 1840.7 | 1581.1 | 1326.2 | 1176.8 | 1061.9 | 939.7  | 805.9  | 715.1  | 682.7  | 665.4  |
| 17.5° | 2280.0 | 2045.0 | 1575.9 | 1280.2 | 1108.9 | 976.8  | 829.5  | 683.2  | 622.6  | 589.1  | 560.5  |
| 20°   | 2642.9 | 2315.5 | 1604.0 | 1232.7 | 1036.8 | 870.2  | 709.9  | 574.1  | 531.8  | 509.8  | 501.9  |
| 22.5° | 3074.9 | 2662.3 | 1765.5 | 1225.9 | 969.0  | 792.4  | 644.0  | 559.4  | 511.9  | 487.9  | 477.9  |
| 25°   | 3418.1 | 3021.2 | 1884.5 | 1271.9 | 965.2  | 728.1  | 604.3  | 621.6  | 599.7  | 606.9  | 549.0  |
| 27.5° | 3751.4 | 3118.8 | 1817.7 | 1251.5 | 868.2  | 614.3  | 594.9  | 631.0  | 649.8  | 655.6  | 653.4  |
| 30°   | 4032.9 | 3531.5 | 1832.4 | 1136.6 | 733.4  | 500.4  | 455.5  | 473.3  | 525.0  | 606.9  | 622.6  |
| 32.5° | 4445.0 | 3728.9 | 1957.2 | 1067.1 | 655.6  | 447.6  | 397.5  | 390.7  | 402.7  | 432.4  | 458.1  |
| 35°   | 4927.1 | 4183.3 | 1992.1 | 1048.8 | 601.7  | 424.2  | 389.1  | 373.5  | 379.7  | 402.2  | 407.4  |
| 37.5° | 5826.0 | 4514.5 | 2121.7 | 1026.3 | 581.9  | 410.0  | 382.9  | 377.1  | 390.7  | 409.0  | 419.4  |
| 40°   | 6321.7 | 5109.9 | 2128.0 | 1007.1 | 556.3  | 404.3  | 387.1  | 384.5  | 392.8  | 417.8  | 424.2  |
| 42.5° | 6982.5 | 5449.5 | 2226.2 | 984.6  | 547.4  | 412.1  | 395.4  | 394.3  | 401.7  | 416.3  | 427.8  |
| 45°   | 7385.3 | 5676.7 | 2231.4 | 971.6  | 545.3  | 446.6  | 406.4  | 402.7  | 401.1  | 410.0  | 420.4  |
| 47.5° | 7644.8 | 6004.2 | 2295.1 | 956.9  | 557.8  | 455.5  | 419.4  | 403.8  | 398.5  | 402.2  | 410.0  |
| 50°   | 7890.8 | 6265.8 | 2415.7 | 954.8  | 570.9  | 446.6  | 442.4  | 403.2  | 392.8  | 391.2  | 397.0  |
| 52.5° | 8192.8 | 6696.2 | 2564.6 | 974.6  | 567.8  | 433.6  | 459.7  | 401.1  | 382.3  | 378.7  | 384.5  |
| 55°   | 8632.0 | 7157.5 | 2722.9 | 958.0  | 535.4  | 408.5  | 443.0  | 399.6  | 371.3  | 364.6  | 369.8  |
| 57.5° | 8916.7 | 7421.8 | 2900.0 | 943.8  | 486.3  | 389.7  | 427.8  | 400.6  | 372.5  | 357.3  | 360.4  |
| 60°   | 8822.2 | 7279.7 | 2969.5 | 857.6  | 439.8  | 375.1  | 391.7  | 392.3  | 363.0  | 348.9  | 351.5  |
| 62.5° | 8404.2 | 6765.2 | 2904.6 | 757.4  | 405.3  | 354.1  | 354.7  | 376.6  | 335.8  | 326.0  | 330.1  |
| 65°   | 7820.3 | 6125.4 | 2642.5 | 692.1  | 389.1  | 332.2  | 323.8  | 330.6  | 299.3  | 292.0  | 300.3  |
| 67.5° | 7103.6 | 5336.7 | 2252.3 | 623.1  | 383.4  | 302.4  | 292.5  | 289.9  | 270.1  | 261.7  | 270.1  |
| 70°   | 6204.7 | 4468.5 | 1800.5 | 574.5  | 361.5  | 270.1  | 262.2  | 259.6  | 242.9  | 236.6  | 243.9  |
| 72.5° | 4987.2 | 3489.1 | 1389.4 | 537.4  | 337.4  | 240.3  | 233.5  | 230.4  | 216.2  | 207.4  | 216.2  |
| 75°   | 3547.2 | 2666.5 | 1032.1 | 480.5  | 303.5  | 210.0  | 202.2  | 198.0  | 184.9  | 176.5  | 184.4  |
| 77.5° | 2520.7 | 2001.5 | 720.8  | 397.5  | 250.2  | 177.6  | 172.9  | 166.1  | 154.6  | 144.7  | 152.5  |
| 80°   | 1863.7 | 1430.1 | 464.9  | 306.6  | 191.2  | 142.1  | 139.5  | 134.8  | 123.8  | 111.8  | 117.6  |
| 82.5° | 1226.9 | 1031.1 | 266.3  | 207.9  | 138.9  | 102.4  | 104.4  | 101.4  | 90.9   | 78.3   | 81.5   |
| 85°   | 549.5  | 610.6  | 141.5  | 114.4  | 90.4   | 61.7   | 67.4   | 65.3   | 57.5   | 45.5   | 46.5   |
| 87.5° | 52.7   | 102.9  | 43.3   | 41.8   | 33.4   | 19.3   | 24.0   | 20.4   | 17.2   | 11.0   | 8.4    |
| 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1135.1 | 1135.1 | 1135.1 | 1135.1 | 1135.1 | 1135.1 | 1135.1 | 1135.1 | 1135.1 | 1135.1 | 1135.1 |
| 2.5°  | 1223.3 | 1149.7 | 1076.0 | 1120.9 | 1121.9 | 1133.9 | 1135.5 | 1091.2 | 1126.7 | 1153.8 | 1182.0 |
| 5°    | 1242.7 | 1194.6 | 1197.2 | 1153.8 | 1130.3 | 1160.6 | 1154.3 | 1142.3 | 1163.8 | 1193.6 | 1229.5 |
| 7.5°  | 1102.6 | 1071.3 | 1066.0 | 1024.3 | 922.9  | 900.5  | 919.3  | 927.1  | 955.8  | 1001.8 | 1040.5 |
| 10°   | 860.8  | 922.9  | 853.0  | 836.8  | 810.1  | 757.9  | 727.6  | 723.9  | 785.1  | 822.1  | 854.6  |
| 12.5° | 775.7  | 760.0  | 751.6  | 707.3  | 707.3  | 651.8  | 634.1  | 650.3  | 744.3  | 771.0  | 812.7  |
| 15°   | 660.8  | 649.2  | 610.6  | 588.7  | 578.2  | 555.8  | 574.5  | 590.3  | 678.0  | 680.1  | 723.9  |
| 17.5° | 548.4  | 541.6  | 505.1  | 500.9  | 490.5  | 480.5  | 497.8  | 535.4  | 582.9  | 574.5  | 594.9  |
| 20°   | 490.5  | 466.9  | 433.6  | 445.6  | 434.6  | 426.8  | 419.4  | 472.7  | 506.1  | 517.1  | 529.1  |
| 22.5° | 475.9  | 433.0  | 413.2  | 402.2  | 402.7  | 390.2  | 391.7  | 436.2  | 486.9  | 493.6  | 486.3  |
| 25°   | 543.8  | 467.5  | 403.2  | 371.3  | 359.3  | 355.2  | 367.2  | 406.4  | 467.5  | 482.1  | 487.9  |
| 27.5° | 636.2  | 507.7  | 415.2  | 360.9  | 336.9  | 339.0  | 356.2  | 383.4  | 455.5  | 481.5  | 488.3  |
| 30°   | 610.6  | 477.4  | 415.8  | 353.1  | 323.4  | 334.3  | 340.6  | 366.7  | 446.1  | 485.3  | 519.2  |
| 32.5° | 471.1  | 429.4  | 418.4  | 359.3  | 347.4  | 330.1  | 339.0  | 364.1  | 418.4  | 443.0  | 444.5  |
| 35°   | 399.1  | 367.2  | 359.9  | 345.3  | 328.6  | 321.2  | 331.2  | 353.1  | 388.6  | 403.8  | 401.7  |
| 37.5° | 395.9  | 360.9  | 332.2  | 326.0  | 319.2  | 317.0  | 322.8  | 343.2  | 379.3  | 405.8  | 400.1  |
| 40°   | 401.1  | 357.8  | 328.6  | 317.6  | 320.2  | 310.8  | 316.6  | 341.6  | 380.7  | 405.8  | 400.6  |
| 42.5° | 394.9  | 354.1  | 323.8  | 315.5  | 318.1  | 305.0  | 311.8  | 338.0  | 376.6  | 406.4  | 396.5  |
| 45°   | 382.3  | 345.8  | 321.2  | 307.1  | 319.2  | 299.8  | 308.2  | 328.6  | 364.1  | 396.5  | 384.9  |
| 47.5° | 369.8  | 335.8  | 310.2  | 301.4  | 313.4  | 294.6  | 298.2  | 316.0  | 351.5  | 383.4  | 373.5  |
| 50°   | 356.2  | 323.4  | 301.4  | 298.8  | 307.1  | 293.5  | 287.8  | 302.4  | 336.4  | 368.3  | 359.9  |
| 52.5° | 341.6  | 312.8  | 295.1  | 294.1  | 301.9  | 286.7  | 278.4  | 289.9  | 320.2  | 352.1  | 345.3  |
| 55°   | 327.5  | 301.4  | 287.3  | 289.9  | 298.8  | 281.0  | 270.5  | 277.9  | 303.0  | 334.3  | 324.8  |
| 57.5° | 313.4  | 288.3  | 276.9  | 284.1  | 290.9  | 273.7  | 260.7  | 264.9  | 285.2  | 316.0  | 305.0  |
| 60°   | 300.9  | 276.9  | 265.3  | 274.3  | 280.5  | 262.7  | 247.6  | 250.2  | 268.5  | 296.2  | 286.3  |
| 62.5° | 284.7  | 264.3  | 249.1  | 260.7  | 265.3  | 248.1  | 231.9  | 235.0  | 249.7  | 275.8  | 268.5  |
| 65°   | 261.7  | 248.6  | 234.5  | 242.4  | 248.6  | 230.9  | 215.8  | 219.4  | 230.4  | 254.9  | 249.7  |
| 67.5° | 241.8  | 229.3  | 219.9  | 226.2  | 227.2  | 213.6  | 200.0  | 202.2  | 211.0  | 234.0  | 228.2  |
| 70°   | 219.9  | 207.9  | 200.6  | 205.2  | 204.8  | 193.3  | 182.8  | 183.3  | 190.6  | 211.6  | 203.7  |
| 72.5° | 195.9  | 184.4  | 180.7  | 183.3  | 181.3  | 170.8  | 160.9  | 164.5  | 169.3  | 184.9  | 178.7  |
| 75°   | 170.3  | 159.9  | 157.7  | 160.3  | 157.3  | 147.3  | 138.4  | 142.1  | 146.3  | 159.3  | 151.5  |
| 77.5° | 143.7  | 134.2  | 134.8  | 135.3  | 131.1  | 124.3  | 115.4  | 119.1  | 121.7  | 130.6  | 122.8  |
| 80°   | 114.4  | 107.0  | 109.2  | 109.2  | 104.4  | 99.8   | 91.4   | 92.4   | 94.0   | 97.2   | 91.4   |
| 82.5° | 83.6   | 83.6   | 83.6   | 84.1   | 74.2   | 75.7   | 68.4   | 67.9   | 66.3   | 65.8   | 62.1   |
| 85°   | 49.7   | 51.7   | 52.7   | 54.3   | 40.2   | 47.0   | 40.7   | 39.2   | 36.1   | 32.9   | 31.9   |
| 87.5° | 11.0   | 14.1   | 14.1   | 13.6   | 0.0    | 5.2    | 2.6    | 4.2    | 1.0    | 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: P822510

CATALOG NUMBER: PMM-SA2D-735-U-SLL

**CANDELA DISTRIBUTION (continued):**

|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 359°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1135.1 | 1135.1 | 1135.1 | 1135.1 | 1135.1 | 1135.1 | 1135.1 | 1135.1 | 1135.1 | 1135.1 |
| 2.5°  | 1149.7 | 1118.3 | 1176.8 | 1229.1 | 1220.7 | 1251.0 | 1180.4 | 1285.0 | 1395.6 | 1395.6 |
| 5°    | 1220.1 | 1193.6 | 1208.7 | 1238.9 | 1261.9 | 1367.5 | 1455.3 | 1542.5 | 1722.6 | 1724.8 |
| 7.5°  | 1029.0 | 1086.4 | 1100.0 | 1091.2 | 1189.8 | 1325.7 | 1470.3 | 1719.0 | 1871.5 | 1883.5 |
| 10°   | 962.2  | 988.2  | 1029.5 | 1052.5 | 1092.7 | 1226.5 | 1406.2 | 1701.2 | 1863.1 | 1893.5 |
| 12.5° | 871.8  | 968.4  | 1031.1 | 1159.6 | 1191.4 | 1218.1 | 1503.8 | 1759.2 | 1871.0 | 1863.7 |
| 15°   | 773.0  | 846.2  | 936.5  | 1078.6 | 1159.6 | 1363.3 | 1561.7 | 1945.2 | 2008.3 | 2063.7 |
| 17.5° | 616.3  | 670.2  | 790.3  | 952.2  | 1152.8 | 1340.3 | 1704.9 | 2175.0 | 2293.0 | 2350.5 |
| 20°   | 507.2  | 507.7  | 627.8  | 842.5  | 1060.8 | 1244.2 | 1759.2 | 2365.6 | 2515.5 | 2544.8 |
| 22.5° | 479.5  | 455.5  | 518.7  | 693.1  | 959.5  | 1301.2 | 1868.9 | 2672.2 | 2985.1 | 3058.7 |
| 25°   | 464.3  | 435.1  | 474.8  | 611.7  | 886.9  | 1330.9 | 2089.9 | 3093.8 | 3495.5 | 3524.1 |
| 27.5° | 470.6  | 484.2  | 496.7  | 545.3  | 795.0  | 1275.0 | 2038.6 | 3282.3 | 3712.7 | 3767.0 |
| 30°   | 512.9  | 534.8  | 506.1  | 522.8  | 719.3  | 1194.0 | 2130.1 | 3588.4 | 3986.4 | 4077.8 |
| 32.5° | 426.8  | 418.4  | 415.8  | 452.3  | 643.5  | 1120.9 | 2321.7 | 4019.3 | 4283.1 | 4398.0 |
| 35°   | 384.9  | 371.9  | 377.1  | 418.9  | 606.4  | 1110.5 | 2429.3 | 4376.1 | 4751.6 | 4822.1 |
| 37.5° | 383.4  | 368.3  | 375.1  | 406.4  | 619.5  | 1129.3 | 2601.7 | 4948.6 | 5578.0 | 5728.9 |
| 40°   | 379.7  | 371.3  | 375.1  | 398.5  | 605.9  | 1139.7 | 2701.0 | 5429.6 | 6153.6 | 6306.7 |
| 42.5° | 379.3  | 375.1  | 378.7  | 404.8  | 591.8  | 1144.4 | 2838.3 | 5864.2 | 6760.0 | 6880.6 |
| 45°   | 377.7  | 381.9  | 381.9  | 410.0  | 585.5  | 1175.8 | 2919.3 | 6077.3 | 7160.1 | 7309.0 |
| 47.5° | 370.3  | 382.9  | 403.2  | 408.5  | 559.9  | 1161.1 | 3033.7 | 6400.7 | 7372.7 | 7512.7 |
| 50°   | 360.9  | 381.3  | 430.4  | 398.0  | 555.8  | 1125.7 | 3167.4 | 6657.1 | 7645.4 | 7767.0 |
| 52.5° | 348.4  | 378.7  | 424.2  | 377.7  | 548.4  | 1119.3 | 3354.9 | 6990.4 | 7963.4 | 8071.0 |
| 55°   | 330.6  | 369.3  | 404.8  | 357.3  | 530.7  | 1099.5 | 3641.7 | 7403.5 | 8379.7 | 8453.3 |
| 57.5° | 314.4  | 355.2  | 376.6  | 345.8  | 488.3  | 1103.7 | 3841.2 | 7740.4 | 8729.2 | 8793.4 |
| 60°   | 299.8  | 353.6  | 336.4  | 333.8  | 445.0  | 1047.8 | 3906.0 | 7736.8 | 8859.2 | 8960.0 |
| 62.5° | 284.1  | 333.8  | 308.2  | 317.6  | 406.9  | 990.3  | 3768.6 | 7405.1 | 8718.8 | 8895.3 |
| 65°   | 263.7  | 286.3  | 284.7  | 306.1  | 407.9  | 896.9  | 3453.6 | 6820.1 | 8368.3 | 8600.7 |
| 67.5° | 239.8  | 253.3  | 262.2  | 287.3  | 421.0  | 824.3  | 2947.0 | 6116.5 | 7771.8 | 8048.1 |
| 70°   | 215.2  | 228.8  | 238.7  | 262.7  | 433.0  | 790.8  | 2345.8 | 5128.3 | 6800.2 | 7080.7 |
| 72.5° | 190.1  | 204.2  | 212.0  | 233.0  | 416.8  | 719.3  | 1736.2 | 3990.0 | 5458.3 | 5605.6 |
| 75°   | 164.1  | 177.6  | 183.9  | 203.2  | 362.0  | 594.9  | 1198.8 | 3022.2 | 3997.9 | 4147.3 |
| 77.5° | 137.4  | 152.0  | 154.1  | 169.7  | 276.3  | 455.0  | 768.4  | 2318.1 | 2831.0 | 2930.8 |
| 80°   | 109.6  | 124.3  | 124.3  | 132.7  | 194.3  | 312.8  | 460.2  | 1748.8 | 2061.6 | 2100.9 |
| 82.5° | 78.9   | 94.6   | 93.5   | 94.0   | 134.2  | 193.8  | 266.3  | 1310.5 | 1489.7 | 1497.0 |
| 85°   | 46.5   | 57.5   | 56.9   | 52.3   | 79.4   | 104.4  | 144.1  | 813.8  | 831.5  | 833.6  |
| 87.5° | 8.9    | 13.6   | 12.0   | 5.2    | 21.9   | 30.8   | 41.8   | 150.9  | 60.1   | 58.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

STREETWORKS

Report Number: SP1-2101-121-7

Luminaire Tested: IFLD-S-SA2A-735-U-T2

Test Date: 03/04/2021

### Test Information

Test Method: LM-79-08  
 Report Number: SP1-2101-121-7  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1  
 Measurement Geometry:  $4\pi$   
 Issue Date: 03/04/2021  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: **IFLD-S-SA2A-735-U-T2**  
 Description: STREETWORKS INF FLOOD

PROGRAMMED @ 615mA.

### Spectral Parameters

|                           |        |           |      |      |       |
|---------------------------|--------|-----------|------|------|-------|
| CCT (K):                  | 3388   | CRI (Ra): | 73.1 |      |       |
| CIE u':                   | 0.2371 | R1:       | 68.9 | R9:  | -34.6 |
| CIE v':                   | 0.5177 | R2:       | 81.1 | R10: | 57.8  |
| Duv:                      | 0.0032 | R3:       | 93.1 | R11: | 68.6  |
| CIE x:                    | 0.4153 | R4:       | 71.6 | R12: | 53.9  |
| CIE y:                    | 0.4030 | R5:       | 69.4 | R13: | 70.9  |
| CIE z:                    | 0.1817 | R6:       | 75.0 | R14: | 96.2  |
| Peak Wavelength (nm):     | 590    | R7:       | 79.5 |      |       |
| Dominant Wavelength (nm): | 580    | R8:       | 46.4 |      |       |
| Purity:                   | 45.7   |           |      |      |       |
| Rf:                       | 76.9   |           |      |      |       |
| Rg:                       | 94.4   |           |      |      |       |



### Test Conditions

Stabilization Time: 81M  
 Operation Time: 12H  
 Room Temperature (°C) / RH%: 25.0/30%  
 Sphere Temperature (°C): 24.1

REPORT NUMBER: SP1-2101-121-7

| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| Photometer                     | IN0058                | 1/31/2021        | 7/31/2021            |
| Power Meter                    | IN0071                | 12/1/2020        | 12/1/2021            |
| AC Power Source                | IN0063                | 12/1/2020        | 12/1/2021            |
| DC Power Source                | IN0208                | 12/1/2020        | 12/1/2021            |
| Sphere Thermometer             | IN0085                | 12/1/2020        | 12/1/2021            |
| Room Thermometer               | IN0046                | 12/1/2020        | 12/1/2021            |

REPORT NUMBER: SP1-2101-121-7

**CIE 1931 Chromaticity Diagram**



**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2101-121-7

### Photopic Flux vs. Wavelength



#####

| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 360       | 2672             | 0.0              | 490       | 34553            | 4.9              | 620       | 136720           | 35.6             | 750       | 5870             | 0.0              | 880       | 4216             | 0.0              |
| 365       | 2252             | 0.0              | 495       | 44336            | 8.0              | 625       | 126308           | 27.9             | 755       | 5421             | 0.0              | 885       | 4132             | 0.0              |
| 370       | 2217             | 0.0              | 500       | 54643            | 12.1             | 630       | 114625           | 20.7             | 760       | 5097             | 0.0              | 890       | 3992             | 0.0              |
| 375       | 2697             | 0.0              | 505       | 64676            | 18.1             | 635       | 103216           | 15.5             | 765       | 4626             | 0.0              | 895       | 3214             | 0.0              |
| 380       | 3039             | 0.0              | 510       | 73825            | 25.4             | 640       | 92605            | 11.1             | 770       | 3782             | 0.0              | 900       | 2580             | 0.0              |
| 385       | 2655             | 0.0              | 515       | 81872            | 33.9             | 645       | 83234            | 8.0              | 775       | 3506             | 0.0              | 905       | 1776             | 0.0              |
| 390       | 2357             | 0.0              | 520       | 88574            | 43.0             | 650       | 73263            | 5.4              | 780       | 3507             | 0.0              | 910       | 3995             | 0.0              |
| 395       | 2186             | 0.0              | 525       | 93289            | 50.1             | 655       | 64627            | 3.7              | 785       | 3267             | 0.0              | 915       | 4288             | 0.0              |
| 400       | 2015             | 0.0              | 530       | 98393            | 57.9             | 660       | 56614            | 2.4              | 790       | 2849             | 0.0              | 920       | 2446             | 0.0              |
| 405       | 2234             | 0.0              | 535       | 103269           | 64.0             | 665       | 49537            | 1.6              | 795       | 3037             | 0.0              | 925       | 3009             | 0.0              |
| 410       | 3412             | 0.0              | 540       | 107316           | 69.9             | 670       | 42866            | 0.9              | 800       | 2716             | 0.0              | 930       | 3026             | 0.0              |
| 415       | 6135             | 0.0              | 545       | 113101           | 75.3             | 675       | 36708            | 0.6              | 805       | 2648             | 0.0              | 935       | 4734             | 0.0              |
| 420       | 12146            | 0.0              | 550       | 120690           | 82.0             | 680       | 31814            | 0.4              | 810       | 3187             | 0.0              | 940       | 3719             | 0.0              |
| 425       | 23983            | 0.1              | 555       | 128583           | 87.8             | 685       | 27485            | 0.2              | 815       | 2931             | 0.0              | 945       | 1480             | 0.0              |
| 430       | 42142            | 0.3              | 560       | 137796           | 93.6             | 690       | 23698            | 0.1              | 820       | 2717             | 0.0              | 950       | 3450             | 0.0              |
| 435       | 68228            | 0.8              | 565       | 146577           | 97.5             | 695       | 20309            | 0.1              | 825       | 2236             | 0.0              | 955       | 5051             | 0.0              |
| 440       | 99323            | 1.6              | 570       | 154581           | 100.5            | 700       | 17890            | 0.1              | 830       | 2628             | 0.0              | 960       | 3176             | 0.0              |
| 445       | 115584           | 2.4              | 575       | 162633           | 101.2            | 705       | 15500            | 0.0              | 835       | 3140             | 0.0              | 965       | 5178             | 0.0              |
| 450       | 94997            | 2.5              | 580       | 168101           | 99.9             | 710       | 13699            | 0.0              | 840       | 3675             | 0.0              | 970       | 6385             | 0.0              |
| 455       | 61433            | 2.1              | 585       | 173145           | 96.2             | 715       | 12398            | 0.0              | 845       | 3283             | 0.0              | 975       | 3810             | 0.0              |
| 460       | 43373            | 1.8              | 590       | 174675           | 90.3             | 720       | 11147            | 0.0              | 850       | 3055             | 0.0              | 980       | 4322             | 0.0              |
| 465       | 32472            | 1.7              | 595       | 173724           | 82.3             | 725       | 9761             | 0.0              | 855       | 2932             | 0.0              | 985       | 4200             | 0.0              |
| 470       | 24257            | 1.5              | 600       | 171241           | 73.8             | 730       | 8651             | 0.0              | 860       | 3382             | 0.0              | 990       | 4661             | 0.0              |
| 475       | 21690            | 1.7              | 605       | 165134           | 64.0             | 735       | 7730             | 0.0              | 865       | 2605             | 0.0              | 995       | 6746             | 0.0              |
| 480       | 23173            | 2.2              | 610       | 156652           | 53.8             | 740       | 6847             | 0.0              | 870       | 3325             | 0.0              | 1000      | 4150             | 0.0              |
| 485       | 27564            | 3.3              | 615       | 147879           | 44.6             | 745       | 6124             | 0.0              | 875       | 3325             | 0.0              |           |                  |                  |

REPORT NUMBER: SP1-2101-121-7

### Scotopic Flux vs. Wavelength



Scotopic Lumens: 12126

S/P: 1.36

| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 360       | 2672             | 0.0              | 490       | 34553            | 53.2             | 620       | 136720           | 1.7              | 750       | 5870             | 0.0              | 880       | 4216             | 0.0              |
| 365       | 2252             | 0.0              | 495       | 44336            | 71.7             | 625       | 126308           | 1.1              | 755       | 5421             | 0.0              | 885       | 4132             | 0.0              |
| 370       | 2217             | 0.0              | 500       | 54643            | 91.4             | 630       | 114625           | 0.6              | 760       | 5097             | 0.0              | 890       | 3992             | 0.0              |
| 375       | 2697             | 0.0              | 505       | 64676            | 110.0            | 635       | 103216           | 0.4              | 765       | 4626             | 0.0              | 895       | 3214             | 0.0              |
| 380       | 3039             | 0.0              | 510       | 73825            | 125.1            | 640       | 92605            | 0.2              | 770       | 3782             | 0.0              | 900       | 2580             | 0.0              |
| 385       | 2655             | 0.0              | 515       | 81872            | 135.7            | 645       | 83234            | 0.1              | 775       | 3506             | 0.0              | 905       | 1776             | 0.0              |
| 390       | 2357             | 0.0              | 520       | 88574            | 140.8            | 650       | 73263            | 0.1              | 780       | 3507             | 0.0              | 910       | 3995             | 0.0              |
| 395       | 2186             | 0.0              | 525       | 93289            | 139.6            | 655       | 64627            | 0.1              | 785       | 3267             | 0.0              | 915       | 4288             | 0.0              |
| 400       | 2015             | 0.0              | 530       | 98393            | 135.7            | 660       | 56614            | 0.0              | 790       | 2849             | 0.0              | 920       | 2446             | 0.0              |
| 405       | 2234             | 0.1              | 535       | 103269           | 128.7            | 665       | 49537            | 0.0              | 795       | 3037             | 0.0              | 925       | 3009             | 0.0              |
| 410       | 3412             | 0.2              | 540       | 107316           | 118.6            | 670       | 42866            | 0.0              | 800       | 2716             | 0.0              | 930       | 3026             | 0.0              |
| 415       | 6135             | 0.6              | 545       | 113101           | 108.4            | 675       | 36708            | 0.0              | 805       | 2648             | 0.0              | 935       | 4734             | 0.0              |
| 420       | 12146            | 2.0              | 550       | 120690           | 98.7             | 680       | 31814            | 0.0              | 810       | 3187             | 0.0              | 940       | 3719             | 0.0              |
| 425       | 23983            | 5.9              | 555       | 128583           | 87.9             | 685       | 27485            | 0.0              | 815       | 2931             | 0.0              | 945       | 1480             | 0.0              |
| 430       | 42142            | 14.3             | 560       | 137796           | 77.0             | 690       | 23698            | 0.0              | 820       | 2717             | 0.0              | 950       | 3450             | 0.0              |
| 435       | 68228            | 30.5             | 565       | 146577           | 65.8             | 695       | 20309            | 0.0              | 825       | 2236             | 0.0              | 955       | 5051             | 0.0              |
| 440       | 99323            | 55.5             | 570       | 154581           | 54.6             | 700       | 17890            | 0.0              | 830       | 2628             | 0.0              | 960       | 3176             | 0.0              |
| 445       | 115584           | 77.4             | 575       | 162633           | 44.3             | 705       | 15500            | 0.0              | 835       | 3140             | 0.0              | 965       | 5178             | 0.0              |
| 450       | 94997            | 73.6             | 580       | 168101           | 34.6             | 710       | 13699            | 0.0              | 840       | 3675             | 0.0              | 970       | 6385             | 0.0              |
| 455       | 61433            | 53.7             | 585       | 173145           | 26.5             | 715       | 12398            | 0.0              | 845       | 3283             | 0.0              | 975       | 3810             | 0.0              |
| 460       | 43373            | 41.9             | 590       | 174675           | 19.5             | 720       | 11147            | 0.0              | 850       | 3055             | 0.0              | 980       | 4322             | 0.0              |
| 465       | 32472            | 34.3             | 595       | 173724           | 13.9             | 725       | 9761             | 0.0              | 855       | 2932             | 0.0              | 985       | 4200             | 0.0              |
| 470       | 24257            | 27.9             | 600       | 171241           | 9.7              | 730       | 8651             | 0.0              | 860       | 3382             | 0.0              | 990       | 4661             | 0.0              |
| 475       | 21690            | 27.1             | 605       | 165134           | 6.5              | 735       | 7730             | 0.0              | 865       | 2605             | 0.0              | 995       | 6746             | 0.0              |
| 480       | 23173            | 31.3             | 610       | 156652           | 4.2              | 740       | 6847             | 0.0              | 870       | 3325             | 0.0              | 1000      | 4150             | 0.0              |
| 485       | 27564            | 40.0             | 615       | 147879           | 2.7              | 745       | 6124             | 0.0              | 875       | 3325             | 0.0              |           |                  |                  |

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### Melanopic Flux vs. Wavelength



**Melanopic Lumens: 4490.7**

**M/P: 0.5**

| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 360       | 2672             | 0.0              | 490       | 34553            | 28.8             | 620       | 136720           | 0.1              | 750       | 5870             | 0.0              | 880       | 4216             | 0.0              |
| 365       | 2252             | 0.0              | 495       | 44336            | 36.6             | 625       | 126308           | 0.1              | 755       | 5421             | 0.0              | 885       | 4132             | 0.0              |
| 370       | 2217             | 0.0              | 500       | 54643            | 43.9             | 630       | 114625           | 0.0              | 760       | 5097             | 0.0              | 890       | 3992             | 0.0              |
| 375       | 2697             | 0.0              | 505       | 64676            | 49.6             | 635       | 103216           | 0.0              | 765       | 4626             | 0.0              | 895       | 3214             | 0.0              |
| 380       | 3039             | 0.0              | 510       | 73825            | 53.0             | 640       | 92605            | 0.0              | 770       | 3782             | 0.0              | 900       | 2580             | 0.0              |
| 385       | 2655             | 0.0              | 515       | 81872            | 53.5             | 645       | 83234            | 0.0              | 775       | 3506             | 0.0              | 905       | 1776             | 0.0              |
| 390       | 2357             | 0.0              | 520       | 88574            | 51.6             | 650       | 73263            | 0.0              | 780       | 3507             | 0.0              | 910       | 3995             | 0.0              |
| 395       | 2186             | 0.0              | 525       | 93289            | 47.3             | 655       | 64627            | 0.0              | 785       | 3267             | 0.0              | 915       | 4288             | 0.0              |
| 400       | 2015             | 0.0              | 530       | 98393            | 42.5             | 660       | 56614            | 0.0              | 790       | 2849             | 0.0              | 920       | 2446             | 0.0              |
| 405       | 2234             | 0.0              | 535       | 103269           | 37.2             | 665       | 49537            | 0.0              | 795       | 3037             | 0.0              | 925       | 3009             | 0.0              |
| 410       | 3412             | 0.1              | 540       | 107316           | 31.4             | 670       | 42866            | 0.0              | 800       | 2716             | 0.0              | 930       | 3026             | 0.0              |
| 415       | 6135             | 0.4              | 545       | 113101           | 26.3             | 675       | 36708            | 0.0              | 805       | 2648             | 0.0              | 935       | 4734             | 0.0              |
| 420       | 12146            | 1.4              | 550       | 120690           | 21.7             | 680       | 31814            | 0.0              | 810       | 3187             | 0.0              | 940       | 3719             | 0.0              |
| 425       | 23983            | 3.7              | 555       | 128583           | 17.3             | 685       | 27485            | 0.0              | 815       | 2931             | 0.0              | 945       | 1480             | 0.0              |
| 430       | 42142            | 8.9              | 560       | 137796           | 13.6             | 690       | 23698            | 0.0              | 820       | 2717             | 0.0              | 950       | 3450             | 0.0              |
| 435       | 68228            | 18.2             | 565       | 146577           | 10.3             | 695       | 20309            | 0.0              | 825       | 2236             | 0.0              | 955       | 5051             | 0.0              |
| 440       | 99323            | 33.2             | 570       | 154581           | 7.6              | 700       | 17890            | 0.0              | 830       | 2628             | 0.0              | 960       | 3176             | 0.0              |
| 445       | 115584           | 45.6             | 575       | 162633           | 5.4              | 705       | 15500            | 0.0              | 835       | 3140             | 0.0              | 965       | 5178             | 0.0              |
| 450       | 94997            | 43.8             | 580       | 168101           | 3.8              | 710       | 13699            | 0.0              | 840       | 3675             | 0.0              | 970       | 6385             | 0.0              |
| 455       | 61433            | 32.2             | 585       | 173145           | 2.6              | 715       | 12398            | 0.0              | 845       | 3283             | 0.0              | 975       | 3810             | 0.0              |
| 460       | 43373            | 25.6             | 590       | 174675           | 1.7              | 720       | 11147            | 0.0              | 850       | 3055             | 0.0              | 980       | 4322             | 0.0              |
| 465       | 32472            | 21.2             | 595       | 173724           | 1.1              | 725       | 9761             | 0.0              | 855       | 2932             | 0.0              | 985       | 4200             | 0.0              |
| 470       | 24257            | 17.4             | 600       | 171241           | 0.7              | 730       | 8651             | 0.0              | 860       | 3382             | 0.0              | 990       | 4661             | 0.0              |
| 475       | 21690            | 16.6             | 605       | 165134           | 0.5              | 735       | 7730             | 0.0              | 865       | 2605             | 0.0              | 995       | 6746             | 0.0              |
| 480       | 23173            | 18.6             | 610       | 156652           | 0.3              | 740       | 6847             | 0.0              | 870       | 3325             | 0.0              | 1000      | 4150             | 0.0              |
| 485       | 27564            | 22.7             | 615       | 147879           | 0.2              | 745       | 6124             | 0.0              | 875       | 3325             | 0.0              |           |                  |                  |

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TM-30-18

### Summary

$R_f = 76.9$   
 $R_g = 94.4$   
 CIE  $R_a = 73.1$   
 $R_g = -34.6$

### Spectral Power Distribution Comparison



### Color Vector Graphics



**Individual Sample Fidelity Index ( $R_{f,i}$ )**

|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 68 | CES51 = 90 | CES76 = 63 |
| CES02 = 62 | CES27 = 88 | CES52 = 89 | CES77 = 80 |
| CES03 = 31 | CES28 = 87 | CES53 = 80 | CES78 = 65 |
| CES04 = 70 | CES29 = 67 | CES54 = 84 | CES79 = 87 |
| CES05 = 48 | CES30 = 74 | CES55 = 84 | CES80 = 86 |
| CES06 = 51 | CES31 = 71 | CES56 = 75 | CES81 = 75 |
| CES07 = 40 | CES32 = 67 | CES57 = 74 | CES82 = 94 |
| CES08 = 39 | CES33 = 74 | CES58 = 76 | CES83 = 91 |
| CES09 = 29 | CES34 = 78 | CES59 = 87 | CES84 = 89 |
| CES10 = 75 | CES35 = 89 | CES60 = 93 | CES85 = 80 |
| CES11 = 58 | CES36 = 98 | CES61 = 86 | CES86 = 66 |
| CES12 = 64 | CES37 = 86 | CES62 = 89 | CES87 = 79 |
| CES13 = 43 | CES38 = 82 | CES63 = 77 | CES88 = 79 |
| CES14 = 74 | CES39 = 95 | CES64 = 74 | CES89 = 70 |
| CES15 = 71 | CES40 = 91 | CES65 = 68 | CES90 = 77 |
| CES16 = 47 | CES41 = 89 | CES66 = 71 | CES91 = 88 |
| CES17 = 50 | CES42 = 88 | CES67 = 69 | CES92 = 60 |
| CES18 = 56 | CES43 = 82 | CES68 = 74 | CES93 = 77 |
| CES19 = 72 | CES44 = 99 | CES69 = 82 | CES94 = 52 |
| CES20 = 65 | CES45 = 87 | CES70 = 67 | CES95 = 69 |
| CES21 = 86 | CES46 = 82 | CES71 = 66 | CES96 = 78 |
| CES22 = 79 | CES47 = 82 | CES72 = 88 | CES97 = 85 |
| CES23 = 92 | CES48 = 72 | CES73 = 59 | CES98 = 76 |
| CES24 = 91 | CES49 = 82 | CES74 = 97 | CES99 = 63 |
| CES25 = 72 | CES50 = 88 | CES75 = 66 |            |



**Color Rendition by Hue-Angle Bin**


**Measure Comparisons**



(END OF REPORT)