

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: P561276

Luminaire Tested: **SDL-PA1-90-750-U-5WQ-A**

Issue Date: 7/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P561276  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: SDL-PA1-90-750-U-5WQ-A  
Description: Springdale  
(1) 70 CRI, 5000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS AND CLEAR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9858.9 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type V - Short  
BUG Rating: B4 - U3 - G3

Input Watts (W): 92.4  
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: 24 FT

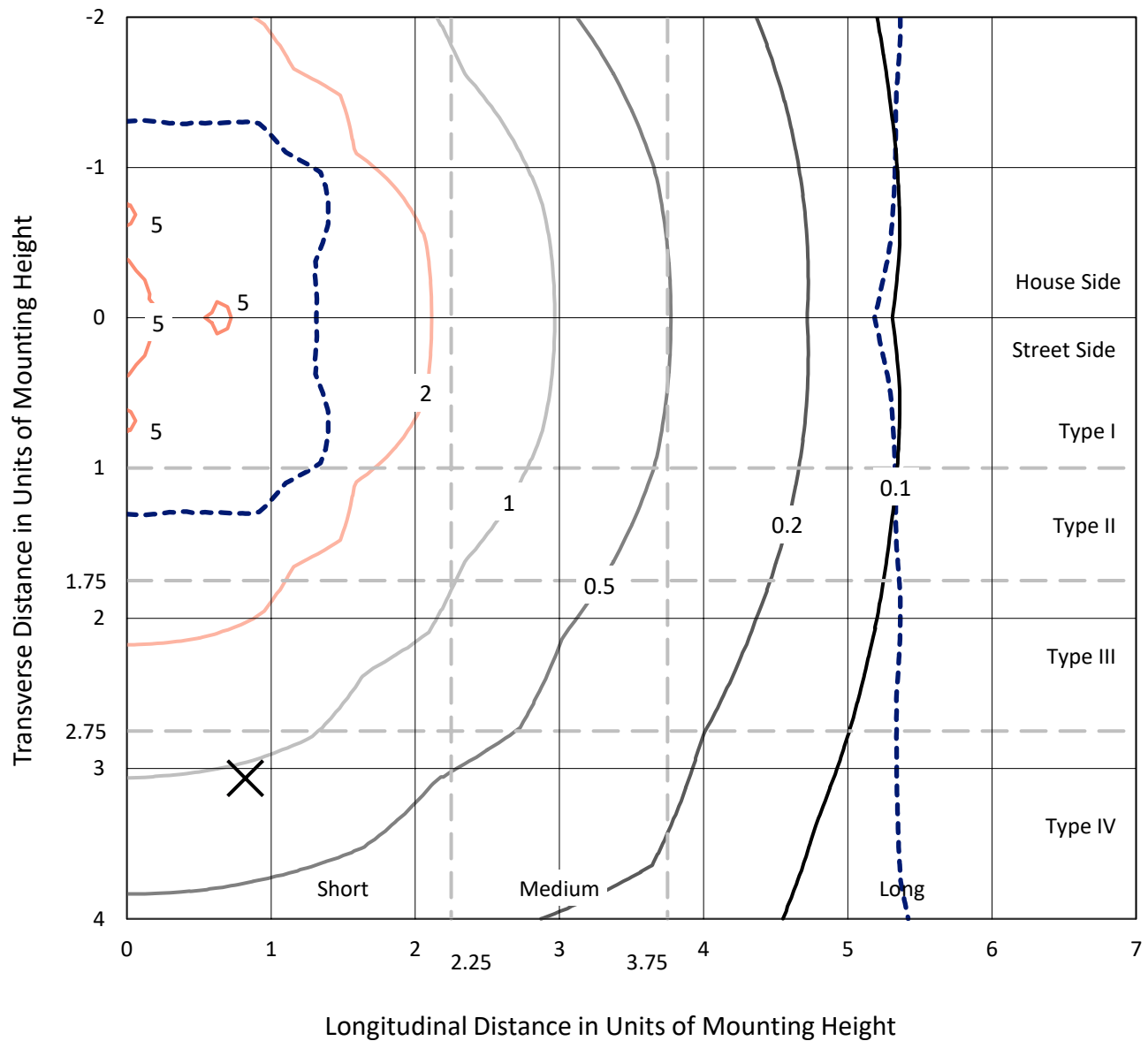


REPORT NUMBER: P561276

CATALOG NUMBER: SDL-PA1-90-750-U-5WQ-A

## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

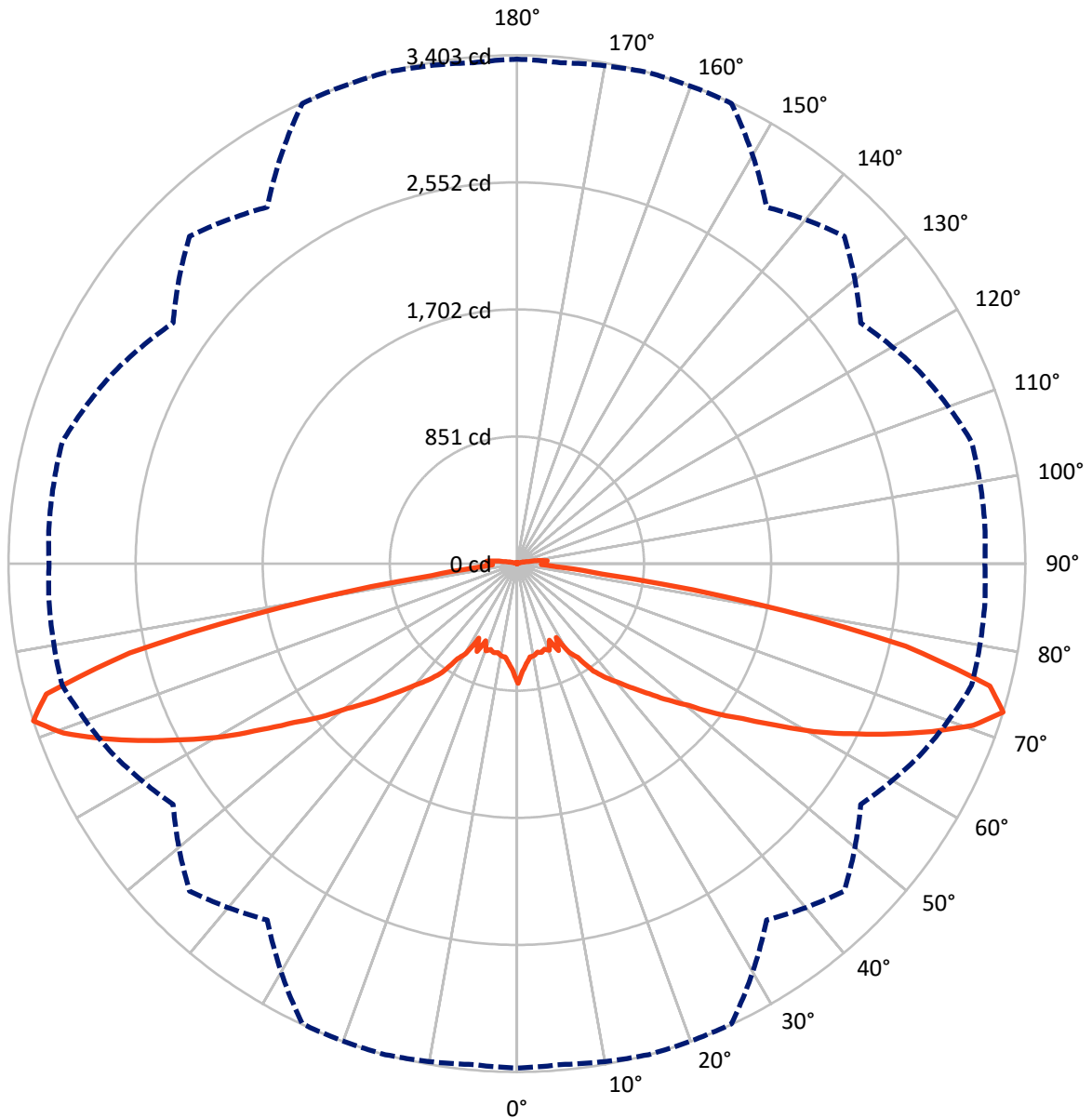


Based on 10 foot mounting height. Maximum calculated value = 8 fc  
 Type V - Short - N/A

REPORT NUMBER: P561276

CATALOG NUMBER: SDL-PA1-90-750-U-5WQ-A

## Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P561276

CATALOG NUMBER: SDL-PA1-90-750-U-5WQ-A

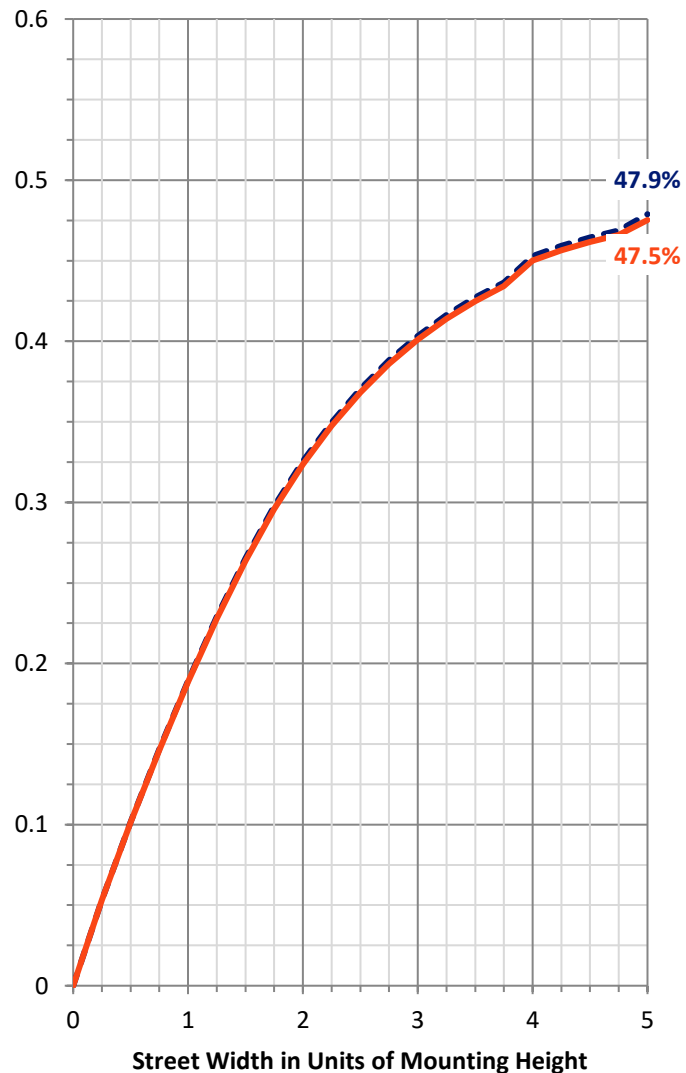
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4779.8   | 149.6  | 4929.5 |
|                    | % Fixture | 48.5     | 1.5    | 50.0   |
| <b>Street Side</b> | Lumens    | 4779.8   | 149.6  | 4929.5 |
|                    | % Fixture | 48.5     | 1.5    | 50.0   |
| <b>Total</b>       | Lumens    | 9559.7   | 299.3  | 9858.9 |
|                    | % Fixture | 97.0     | 3.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 63.2   | 0.6       |
| 10°-20°   | 145.4  | 1.5       |
| 20°-30°   | 255.4  | 2.6       |
| 30°-40°   | 493.0  | 5.0       |
| 40°-50°   | 856.9  | 8.7       |
| 50°-60°   | 1510.1 | 15.3      |
| 60°-70°   | 2551.1 | 25.9      |
| 70°-80°   | 2999.0 | 30.4      |
| 80°-90°   | 685.5  | 7.0       |
| 90°-100°  | 226.2  | 2.3       |
| 100°-110° | 53.3   | 0.5       |
| 110°-120° | 8.6    | 0.1       |
| 120°-130° | 6.8    | 0.1       |
| 130°-140° | 2.8    | 0.0       |
| 140°-150° | 0.6    | 0.0       |
| 150°-160° | 1.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 9559.7 | 97.0      |
| 0°-180°   | 9858.9 | 100.0     |



REPORT NUMBER: P561276

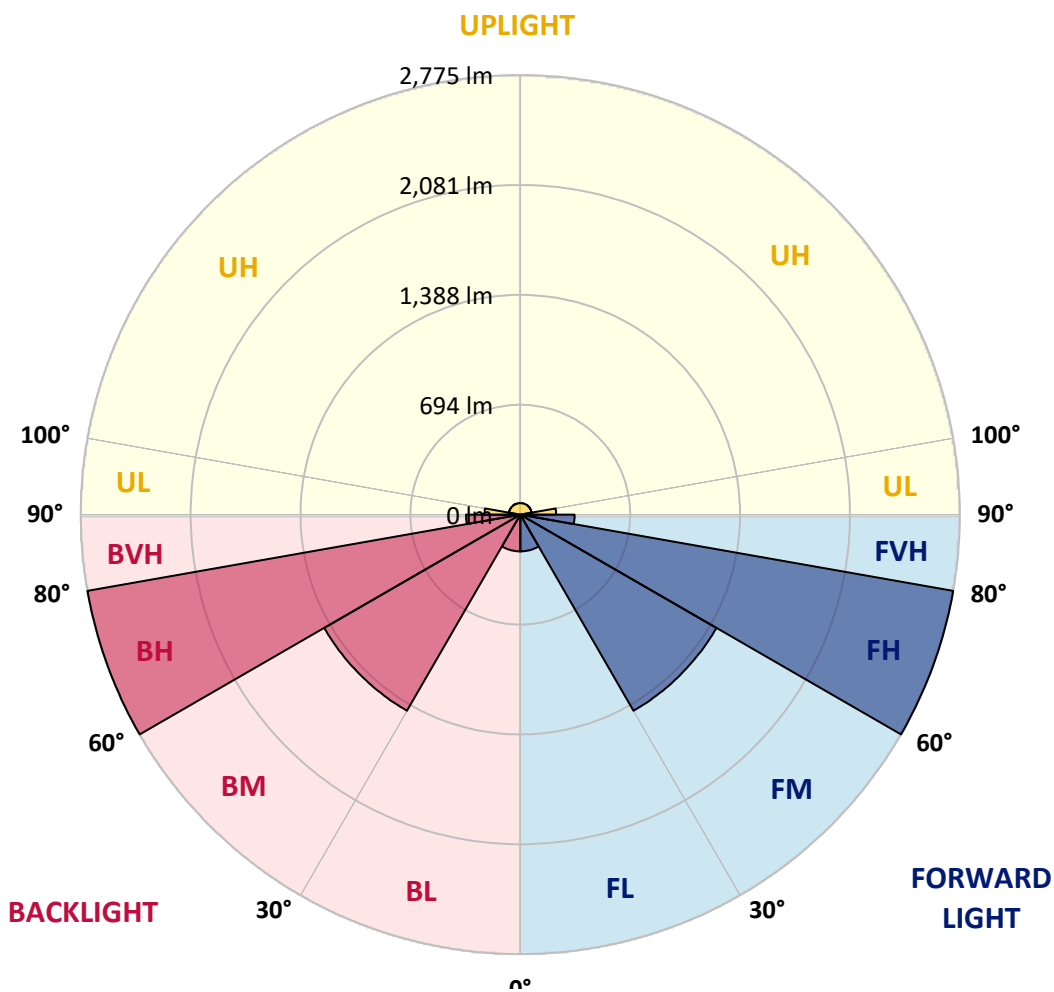
CATALOG NUMBER: SDL-PA1-90-750-U-5WQ-A

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |        |         |
|------|-------------|--------|-----------|-------------------------|--------|---------|
|      |             |        |           | B                       | U      | G       |
| FL   | (0°-30°)    | 232.0  | 2.4       |                         |        |         |
| FM   | (30°-60°)   | 1430.0 | 14.5      |                         |        |         |
| FH   | (60°-80°)   | 2775.1 | 28.1      |                         |        | G2/5000 |
| FVH  | (80°-90°)   | 342.7  | 3.5       |                         |        | G3/500  |
| BL   | (0°-30°)    | 232.0  | 2.4       | B1/500                  |        |         |
| BM   | (30°-60°)   | 1430.0 | 14.5      | B2/2500                 |        |         |
| BH   | (60°-80°)   | 2775.1 | 28.1      | B4/5000                 |        | G2/5000 |
| BVH  | (80°-90°)   | 342.7  | 3.5       |                         |        | G3/500  |
| UL   | (90°-100°)  | 226.2  | 2.3       |                         | U3/500 |         |
| UH   | (100°-180°) | 73.1   | 0.7       |                         | U3/500 |         |

**BUG Rating: B4-U3-G3**

Type V Short





REPORT NUMBER: P561276

CATALOG NUMBER: SDL-PA1-90-750-U-5WQ-A

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 801.6  | 801.6  | 801.6  | 801.6  | 801.6  | 801.6  | 801.6  | 801.6  | 801.6  | 801.6  | 801.6  |
| 2.5°   | 708.8  | 723.7  | 720.0  | 745.9  | 768.2  | 775.6  | 790.5  | 790.5  | 794.2  | 794.2  | 794.2  |
| 5°     | 671.7  | 671.7  | 671.7  | 671.7  | 671.7  | 668.0  | 682.8  | 749.6  | 771.9  | 775.6  | 771.9  |
| 7.5°   | 582.6  | 601.2  | 630.9  | 642.0  | 653.2  | 649.4  | 642.0  | 601.2  | 664.3  | 671.7  | 675.4  |
| 10°    | 627.2  | 627.2  | 627.2  | 619.8  | 590.1  | 564.1  | 534.4  | 504.7  | 515.8  | 582.6  | 582.6  |
| 12.5°  | 556.7  | 553.0  | 608.6  | 616.0  | 560.4  | 489.9  | 467.6  | 478.7  | 445.3  | 508.4  | 508.4  |
| 15°    | 627.2  | 627.2  | 616.0  | 578.9  | 463.9  | 489.9  | 415.6  | 419.4  | 475.0  | 549.2  | 549.2  |
| 17.5°  | 534.4  | 538.1  | 601.2  | 564.1  | 504.7  | 393.4  | 460.2  | 415.6  | 426.8  | 467.6  | 471.3  |
| 20°    | 638.3  | 638.3  | 619.8  | 482.4  | 475.0  | 489.9  | 423.1  | 411.9  | 475.0  | 549.2  | 553.0  |
| 22.5°  | 549.2  | 549.2  | 556.7  | 560.4  | 489.9  | 482.4  | 423.1  | 478.7  | 449.0  | 449.0  | 501.0  |
| 25°    | 664.3  | 664.3  | 645.7  | 512.1  | 538.1  | 467.6  | 489.9  | 449.0  | 549.2  | 604.9  | 604.9  |
| 27.5°  | 582.6  | 582.6  | 560.4  | 582.6  | 519.6  | 556.7  | 489.9  | 530.7  | 590.1  | 712.5  | 720.0  |
| 30°    | 708.8  | 708.8  | 690.3  | 578.9  | 575.2  | 541.8  | 545.5  | 616.0  | 760.8  | 838.7  | 838.7  |
| 32.5°  | 861.0  | 864.7  | 749.6  | 664.3  | 582.6  | 623.5  | 593.8  | 701.4  | 794.2  | 875.8  | 879.5  |
| 35°    | 924.1  | 924.1  | 883.2  | 771.9  | 634.6  | 656.9  | 645.7  | 742.2  | 853.6  | 920.4  | 920.4  |
| 37.5°  | 998.3  | 998.3  | 968.6  | 827.6  | 697.7  | 727.4  | 675.4  | 797.9  | 920.4  | 979.7  | 972.3  |
| 40°    | 1076.2 | 1065.1 | 1046.5 | 887.0  | 764.5  | 771.9  | 727.4  | 857.3  | 983.4  | 1042.8 | 1042.8 |
| 42.5°  | 1172.7 | 1172.7 | 1139.3 | 987.2  | 831.3  | 842.4  | 775.6  | 931.5  | 1076.2 | 1146.7 | 1150.4 |
| 45°    | 1280.3 | 1276.6 | 1243.2 | 1098.5 | 912.9  | 931.5  | 857.3  | 1031.7 | 1191.3 | 1258.1 | 1265.5 |
| 47.5°  | 1406.5 | 1406.5 | 1365.7 | 1217.2 | 1016.8 | 1035.4 | 950.0  | 1131.9 | 1332.3 | 1391.7 | 1399.1 |
| 50°    | 1540.1 | 1529.0 | 1491.9 | 1354.6 | 1154.2 | 1146.7 | 1054.0 | 1243.2 | 1480.7 | 1521.6 | 1536.4 |
| 52.5°  | 1696.0 | 1681.1 | 1666.3 | 1510.4 | 1306.3 | 1310.0 | 1187.6 | 1362.0 | 1651.5 | 1673.7 | 1681.1 |
| 55°    | 1851.9 | 1840.7 | 1829.6 | 1703.4 | 1473.3 | 1495.6 | 1365.7 | 1525.3 | 1822.2 | 1837.0 | 1851.9 |
| 57.5°  | 2026.3 | 2037.4 | 2037.4 | 1918.7 | 1662.6 | 1718.3 | 1558.7 | 1729.4 | 2026.3 | 2015.1 | 2011.4 |
| 60°    | 2278.6 | 2256.4 | 2282.3 | 2174.7 | 1922.4 | 1966.9 | 1796.2 | 1978.0 | 2223.0 | 2178.4 | 2167.3 |
| 62.5°  | 2482.7 | 2479.0 | 2508.7 | 2460.5 | 2163.6 | 2274.9 | 2030.0 | 2215.5 | 2408.5 | 2371.4 | 2375.1 |
| 65°    | 2716.5 | 2712.8 | 2749.9 | 2727.7 | 2415.9 | 2557.0 | 2286.1 | 2482.7 | 2631.2 | 2590.4 | 2582.9 |
| 67.5°  | 2942.9 | 2954.1 | 2998.6 | 3028.3 | 2620.1 | 2801.9 | 2531.0 | 2735.1 | 2850.1 | 2783.3 | 2790.8 |
| 70°    | 3221.3 | 3202.7 | 3239.8 | 3243.5 | 2787.1 | 2980.0 | 2720.3 | 2894.7 | 3035.7 | 2991.2 | 2983.7 |
| 72.5°  | 3377.1 | 3366.0 | 3403.1 | 3399.4 | 2913.2 | 3098.8 | 2809.3 | 2994.9 | 3150.7 | 3143.3 | 3132.2 |
| 75°    | 3206.4 | 3221.3 | 3269.5 | 3336.3 | 2920.7 | 3165.6 | 2798.2 | 2928.1 | 3050.5 | 3009.7 | 2998.6 |
| 77.5°  | 2516.1 | 2545.8 | 2660.9 | 2876.1 | 2724.0 | 3139.6 | 2601.5 | 2568.1 | 2594.1 | 2545.8 | 2516.1 |
| 80°    | 1336.0 | 1362.0 | 1606.9 | 1974.3 | 2185.9 | 2727.7 | 2185.9 | 1866.7 | 1592.1 | 1395.4 | 1228.4 |
| 82.5°  | 426.8  | 460.2  | 575.2  | 909.2  | 1380.5 | 1900.1 | 1265.5 | 716.2  | 493.6  | 423.1  | 397.1  |
| 85°    | 233.8  | 241.2  | 259.8  | 352.6  | 486.2  | 768.2  | 515.8  | 304.3  | 267.2  | 256.1  | 252.4  |
| 87.5°  | 196.7  | 200.4  | 163.3  | 200.4  | 233.8  | 241.2  | 233.8  | 167.0  | 170.7  | 189.3  | 185.6  |
| 90°    | 207.8  | 207.8  | 167.0  | 196.7  | 233.8  | 237.5  | 233.8  | 174.4  | 170.7  | 200.4  | 196.7  |
| 92.5°  | 226.4  | 226.4  | 189.3  | 211.5  | 259.8  | 252.4  | 252.4  | 181.8  | 189.3  | 215.2  | 215.2  |
| 95°    | 241.2  | 237.5  | 204.1  | 215.2  | 274.6  | 282.0  | 274.6  | 193.0  | 204.1  | 233.8  | 233.8  |
| 97.5°  | 178.1  | 170.7  | 148.4  | 193.0  | 259.8  | 296.9  | 274.6  | 181.8  | 159.6  | 178.1  | 174.4  |
| 100°   | 85.4   | 81.6   | 77.9   | 144.7  | 204.1  | 226.4  | 196.7  | 129.9  | 70.5   | 44.5   | 44.5   |
| 102.5° | 18.6   | 18.6   | 52.0   | 100.2  | 118.8  | 118.8  | 107.6  | 89.1   | 44.5   | 14.8   | 14.8   |
| 105°   | 14.8   | 18.6   | 37.1   | 55.7   | 59.4   | 33.4   | 52.0   | 55.7   | 26.0   | 14.8   | 14.8   |
| 107.5° | 14.8   | 18.6   | 14.8   | 18.6   | 18.6   | 14.8   | 18.6   | 22.3   | 11.1   | 14.8   | 14.8   |



REPORT NUMBER: P561276

CATALOG NUMBER: SDL-PA1-90-750-U-5WQ-A

**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 5°   | 15° | 25° | 35° | 45° | 55° | 65° | 75°  | 85°  | 90°  |
|--------|------|------|-----|-----|-----|-----|-----|-----|------|------|------|
| 112.5° | 18.6 | 18.6 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4  | 14.8 | 18.6 |
| 115°   | 14.8 | 14.8 | 7.4 | 7.4 | 7.4 | 7.4 | 3.7 | 7.4 | 7.4  | 14.8 | 14.8 |
| 117.5° | 14.8 | 14.8 | 7.4 | 3.7 | 3.7 | 3.7 | 3.7 | 7.4 | 7.4  | 14.8 | 18.6 |
| 120°   | 18.6 | 14.8 | 7.4 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 11.1 | 18.6 | 18.6 |
| 122.5° | 18.6 | 18.6 | 7.4 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 11.1 | 18.6 | 22.3 |
| 125°   | 18.6 | 14.8 | 7.4 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 7.4  | 18.6 | 18.6 |
| 127.5° | 14.8 | 14.8 | 7.4 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 7.4  | 14.8 | 18.6 |
| 130°   | 14.8 | 14.8 | 7.4 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 7.4  | 14.8 | 14.8 |
| 132.5° | 11.1 | 11.1 | 7.4 | 3.7 | 3.7 | 0.0 | 3.7 | 3.7 | 7.4  | 11.1 | 11.1 |
| 135°   | 7.4  | 7.4  | 3.7 | 0.0 | 3.7 | 0.0 | 3.7 | 0.0 | 3.7  | 7.4  | 11.1 |
| 137.5° | 3.7  | 3.7  | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 3.7  | 3.7  |
| 140°   | 0.0  | 3.7  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 3.7  |
| 142.5° | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0 | 0.0 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 3.7  | 0.0 | 3.7 | 3.7 | 3.7 | 0.0 | 0.0 | 0.0  | 0.0  | 3.7  |
| 150°   | 3.7  | 3.7  | 7.4 | 3.7 | 3.7 | 0.0 | 3.7 | 3.7 | 0.0  | 0.0  | 3.7  |
| 152.5° | 7.4  | 7.4  | 7.4 | 3.7 | 0.0 | 0.0 | 3.7 | 3.7 | 3.7  | 3.7  | 3.7  |
| 155°   | 3.7  | 3.7  | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 3.7 | 3.7  | 7.4  | 7.4  |
| 157.5° | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 3.7  | 3.7  |
| 160°   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  |





Report Generated By 670245982









--- HS --- SS

u



|      |      |      |     |     |     |     |     |     |     |      |      |
|------|------|------|-----|-----|-----|-----|-----|-----|-----|------|------|
| 110° | 18.6 | 18.6 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 14.8 | 18.6 |
|------|------|------|-----|-----|-----|-----|-----|-----|-----|------|------|



(END OF REPORT)