

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: P561325

Luminaire Tested: **SDL-PA1-90-827-U-SL3**

Issue Date: 7/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P561325  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-279-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: SDL-PA1-90-827-U-SL3  
Description: Springdale  
(1) 80 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7476.7 lumens  
Efficiency: N/A  
Efficacy: 80.9 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - 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

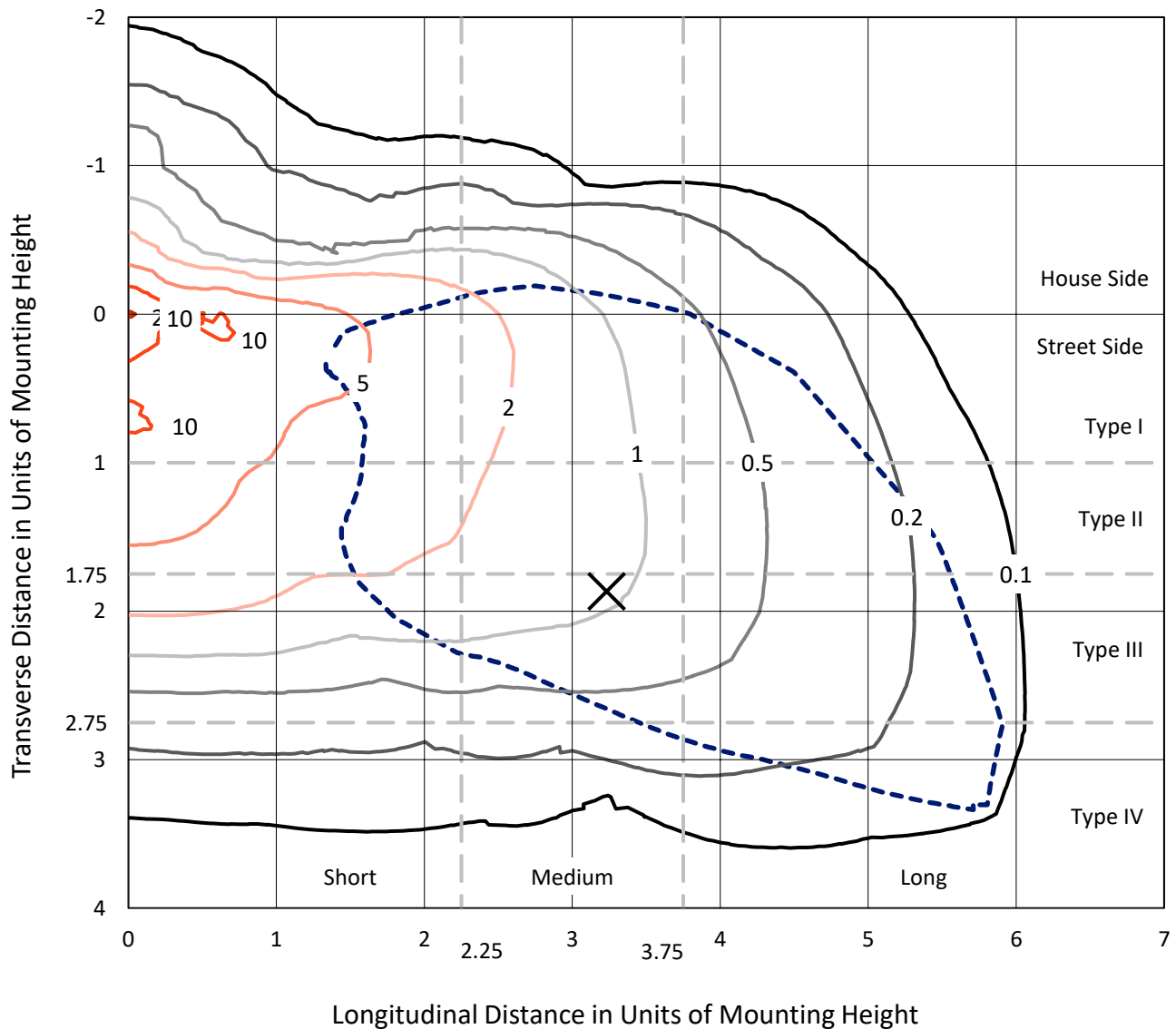


REPORT NUMBER: P561325

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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

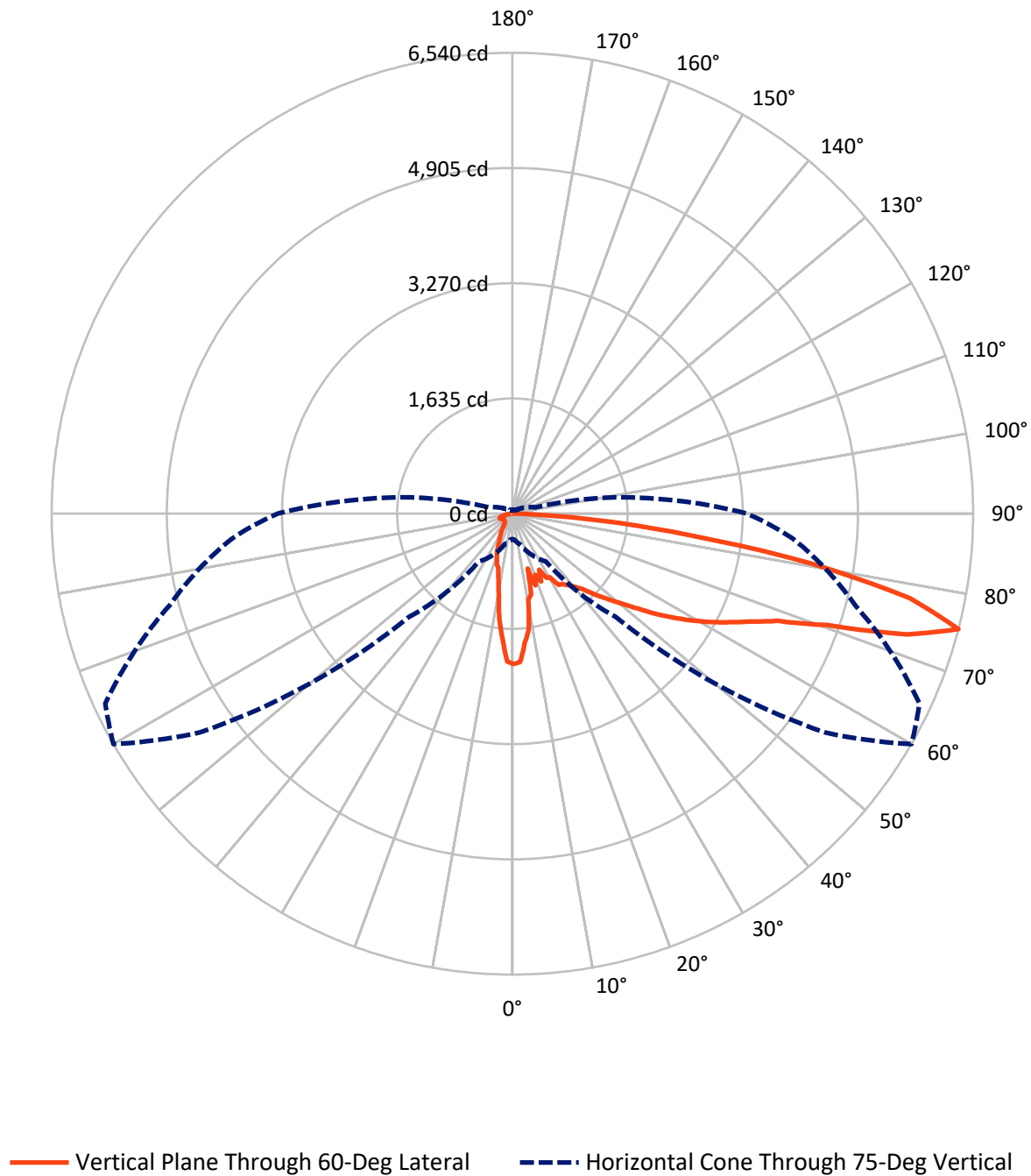


Based on 10 foot mounting height. Maximum calculated value = 21.3 fc  
 Type III - Medium - N/A

REPORT NUMBER: P561325

CATALOG NUMBER: SDL-PA1-90-827-U-SL3

## Luminous Intensity Polar Plot



REPORT NUMBER: P561325

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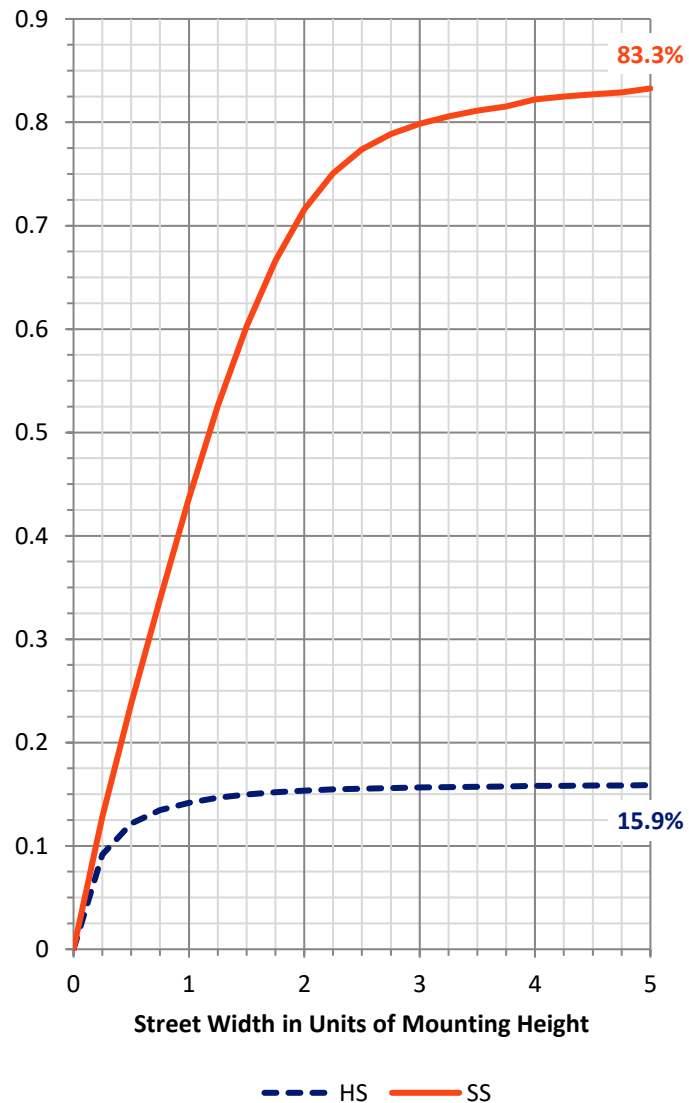
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1201.8   | 0.0    | 1201.8 |
|                    | % Fixture | 16.1     | 0.0    | 16.1   |
| <b>Street Side</b> | Lumens    | 6274.9   | 0.0    | 6274.9 |
|                    | % Fixture | 83.9     | 0.0    | 83.9   |
| <b>Total</b>       | Lumens    | 7476.7   | 0.0    | 7476.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 155.6  | 2.1       |
| 10°-20°   | 280.7  | 3.8       |
| 20°-30°   | 367.7  | 4.9       |
| 30°-40°   | 606.7  | 8.1       |
| 40°-50°   | 947.5  | 12.7      |
| 50°-60°   | 1442.5 | 19.3      |
| 60°-70°   | 1787.4 | 23.9      |
| 70°-80°   | 1579.0 | 21.1      |
| 80°-90°   | 309.5  | 4.1       |
| 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°    | 7476.7 | 100.0     |
| 0°-180°   | 7476.7 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P561325

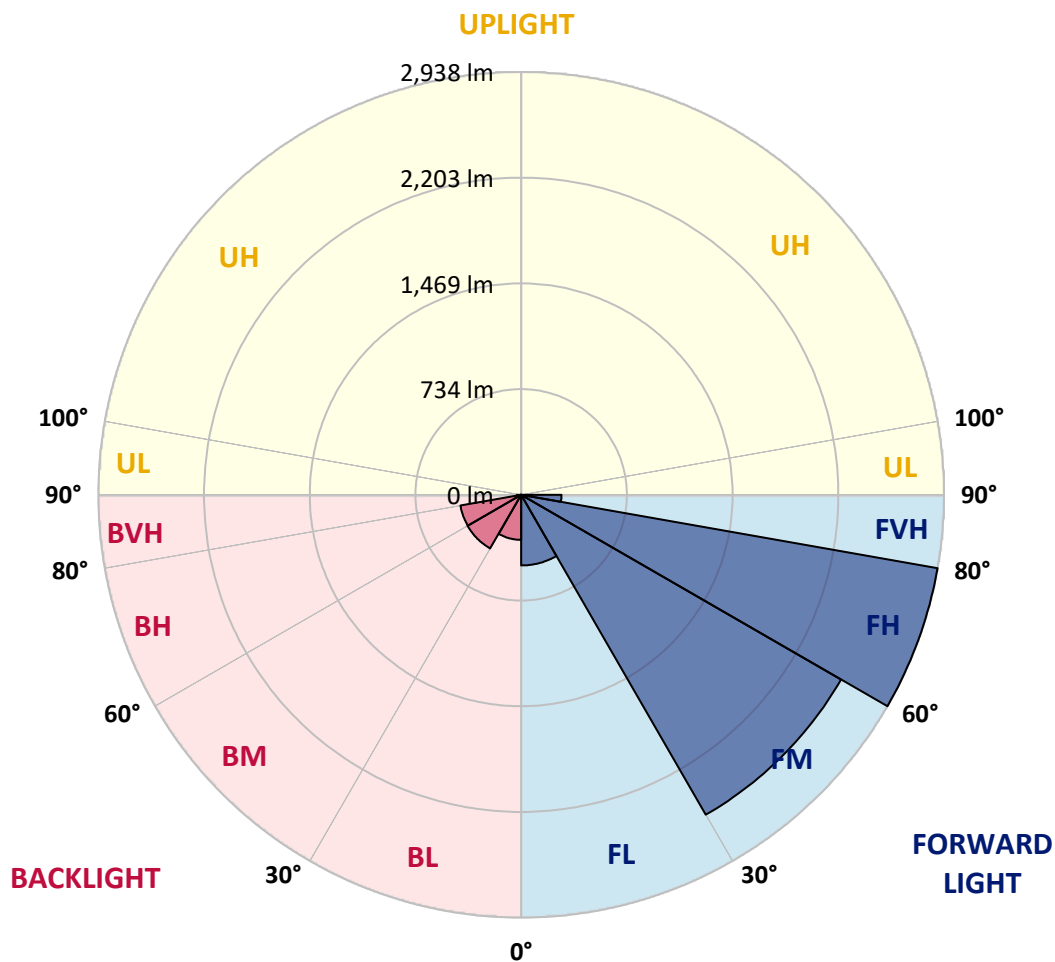
CATALOG NUMBER: SDL-PA1-90-827-U-SL3

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 490.9  | 6.6       |                         |      |         |
| FM   | (30°-60°)   | 2566.2 | 34.3      |                         |      |         |
| FH   | (60°-80°)   | 2937.8 | 39.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 280.0  | 3.7       |                         |      | G3/500  |
| BL   | (0°-30°)    | 313.1  | 4.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 430.6  | 5.8       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 428.6  | 5.7       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 29.5   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type III Medium



REPORT NUMBER: P561325

CATALOG NUMBER: SDL-PA1-90-827-U-SL3

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2132.6 | 2132.6 | 2132.6 | 2132.6 | 2132.6 | 2132.6 | 2132.6 | 2132.6 | 2132.6 | 2132.6 | 2132.6 |
| 2.5°  | 1771.3 | 1971.1 | 1924.6 | 1878.0 | 1949.2 | 2017.7 | 2039.6 | 2058.7 | 2069.7 | 2080.6 | 2091.6 |
| 5°    | 1645.3 | 1648.1 | 1650.8 | 1653.6 | 1661.8 | 1667.2 | 1678.2 | 1689.1 | 1700.1 | 1708.3 | 1719.3 |
| 7.5°  | 1270.3 | 1314.1 | 1385.3 | 1456.4 | 1500.2 | 1541.3 | 1565.9 | 1587.8 | 1604.3 | 1620.7 | 1637.1 |
| 10°   | 1412.6 | 1420.8 | 1423.6 | 1423.6 | 1437.3 | 1451.0 | 1346.9 | 1240.2 | 1292.2 | 1344.2 | 1286.7 |
| 12.5° | 1108.8 | 1138.9 | 1229.2 | 1316.8 | 1344.2 | 1368.8 | 1319.6 | 1270.3 | 1193.6 | 1114.2 | 1108.8 |
| 15°   | 1273.0 | 1281.2 | 1284.0 | 1284.0 | 1199.1 | 1114.2 | 1056.7 | 996.5  | 1043.1 | 1086.9 | 985.6  |
| 17.5° | 985.6  | 993.8  | 1065.0 | 1136.1 | 1149.8 | 1163.5 | 1103.3 | 1043.1 | 908.9  | 772.0  | 900.7  |
| 20°   | 1171.7 | 1177.2 | 1177.2 | 1177.2 | 1034.8 | 892.5  | 903.4  | 911.6  | 955.4  | 999.2  | 963.7  |
| 22.5° | 944.5  | 944.5  | 944.5  | 944.5  | 988.3  | 1029.4 | 941.8  | 854.2  | 903.4  | 952.7  | 908.9  |
| 25°   | 1188.1 | 1196.4 | 1177.2 | 1155.3 | 1023.9 | 892.5  | 933.5  | 974.6  | 900.7  | 826.8  | 892.5  |
| 27.5° | 1084.1 | 1075.9 | 1037.6 | 996.5  | 1015.7 | 1034.8 | 944.5  | 854.2  | 911.6  | 969.1  | 941.8  |
| 30°   | 1440.0 | 1415.4 | 1374.3 | 1333.2 | 1177.2 | 1021.1 | 996.5  | 971.9  | 922.6  | 870.6  | 928.1  |
| 32.5° | 1913.6 | 1850.7 | 1659.0 | 1467.4 | 1371.6 | 1275.8 | 1152.6 | 1029.4 | 1018.4 | 1004.7 | 1021.1 |
| 35°   | 2039.6 | 1998.5 | 1919.1 | 1837.0 | 1672.7 | 1505.7 | 1349.7 | 1190.9 | 1138.9 | 1084.1 | 1095.1 |
| 37.5° | 2064.2 | 2050.5 | 2034.1 | 2014.9 | 1847.9 | 1680.9 | 1511.2 | 1341.5 | 1286.7 | 1229.2 | 1188.1 |
| 40°   | 2083.4 | 2094.3 | 2124.4 | 2151.8 | 1984.8 | 1815.1 | 1661.8 | 1505.7 | 1448.2 | 1388.0 | 1316.8 |
| 42.5° | 2171.0 | 2201.1 | 2239.4 | 2275.0 | 2121.7 | 1968.4 | 1834.2 | 1700.1 | 1626.2 | 1552.3 | 1486.6 |
| 45°   | 2373.6 | 2390.0 | 2431.0 | 2469.4 | 2324.3 | 2176.4 | 2023.1 | 1867.1 | 1804.1 | 1741.2 | 1675.5 |
| 47.5° | 2669.2 | 2696.6 | 2693.9 | 2691.1 | 2529.6 | 2365.3 | 2192.9 | 2017.7 | 1976.6 | 1932.8 | 1869.8 |
| 50°   | 3041.5 | 3022.4 | 2970.4 | 2918.4 | 2743.1 | 2565.2 | 2362.6 | 2157.3 | 2138.1 | 2116.2 | 2064.2 |
| 52.5° | 3227.7 | 3214.0 | 3142.8 | 3068.9 | 2891.0 | 2713.0 | 2494.0 | 2272.3 | 2296.9 | 2321.5 | 2272.3 |
| 55°   | 3238.7 | 3230.4 | 3178.4 | 3126.4 | 2953.9 | 2781.5 | 2587.1 | 2392.7 | 2452.9 | 2513.2 | 2494.0 |
| 57.5° | 3159.3 | 3162.0 | 3145.6 | 3126.4 | 2973.1 | 2819.8 | 2658.3 | 2496.8 | 2600.8 | 2702.1 | 2721.2 |
| 60°   | 2956.7 | 2997.7 | 3025.1 | 3052.5 | 2956.7 | 2860.9 | 2721.2 | 2581.6 | 2740.4 | 2899.2 | 2951.2 |
| 62.5° | 2581.6 | 2617.2 | 2715.8 | 2811.6 | 2830.7 | 2847.2 | 2754.1 | 2658.3 | 2871.8 | 3082.6 | 3167.5 |
| 65°   | 2001.2 | 2050.5 | 2198.3 | 2346.2 | 2499.5 | 2652.8 | 2674.7 | 2696.6 | 3058.0 | 3419.3 | 3490.5 |
| 67.5° | 1248.4 | 1275.8 | 1431.8 | 1585.1 | 1894.5 | 2201.1 | 2376.3 | 2551.5 | 3175.7 | 3797.1 | 3909.4 |
| 70°   | 659.8  | 700.8  | 777.5  | 851.4  | 1117.0 | 1382.5 | 1738.4 | 2094.3 | 2997.7 | 3901.2 | 4361.1 |
| 72.5° | 501.0  | 517.4  | 558.5  | 599.5  | 692.6  | 785.7  | 1010.2 | 1234.7 | 2346.2 | 3454.9 | 4514.4 |
| 75°   | 361.4  | 375.1  | 418.9  | 459.9  | 553.0  | 643.4  | 736.4  | 826.8  | 1448.2 | 2069.7 | 3742.4 |
| 77.5° | 210.8  | 216.3  | 238.2  | 257.3  | 402.4  | 547.5  | 648.8  | 747.4  | 898.0  | 1045.8 | 2672.0 |
| 80°   | 145.1  | 147.8  | 156.0  | 164.3  | 227.2  | 290.2  | 484.6  | 678.9  | 747.4  | 813.1  | 1771.3 |
| 82.5° | 95.8   | 109.5  | 115.0  | 120.5  | 142.4  | 164.3  | 284.7  | 402.4  | 591.3  | 777.5  | 1210.0 |
| 85°   | 49.3   | 54.8   | 65.7   | 73.9   | 84.9   | 93.1   | 128.7  | 161.5  | 490.0  | 815.8  | 870.6  |
| 87.5° | 5.5    | 8.2    | 11.0   | 11.0   | 13.7   | 16.4   | 24.6   | 32.9   | 147.8  | 262.8  | 224.5  |
| 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: P561325

CATALOG NUMBER: SDL-PA1-90-827-U-SL3

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2132.6 | 2132.6 | 2132.6 | 2132.6 | 2132.6 | 2132.6 | 2132.6 | 2132.6 | 2132.6 | 2132.6 | 2132.6 |
| 2.5°  | 2102.5 | 2108.0 | 2105.3 | 2110.7 | 2113.5 | 2116.2 | 2119.0 | 2119.0 | 2116.2 | 2110.7 | 2105.3 |
| 5°    | 1730.2 | 1839.7 | 2025.9 | 2045.0 | 2064.2 | 2069.7 | 2075.2 | 2077.9 | 2072.4 | 2064.2 | 2056.0 |
| 7.5°  | 1650.8 | 1667.2 | 1500.2 | 1634.4 | 1765.8 | 1776.7 | 1785.0 | 1779.5 | 1782.2 | 1708.3 | 1631.6 |
| 10°   | 1229.2 | 1242.9 | 1248.4 | 1289.4 | 1327.8 | 1418.1 | 1508.5 | 1494.8 | 1483.8 | 1352.4 | 1218.3 |
| 12.5° | 1103.3 | 1174.5 | 1190.9 | 1122.4 | 1054.0 | 1147.1 | 1240.2 | 1229.2 | 1210.0 | 1089.6 | 969.1  |
| 15°   | 884.3  | 810.3  | 969.1  | 1117.0 | 1262.1 | 1349.7 | 1434.5 | 1409.9 | 1388.0 | 1234.7 | 1078.6 |
| 17.5° | 1026.6 | 1070.4 | 1018.4 | 1040.3 | 1062.2 | 1127.9 | 1190.9 | 1152.6 | 1138.9 | 1032.1 | 922.6  |
| 20°   | 928.1  | 925.3  | 889.7  | 1018.4 | 1147.1 | 1275.8 | 1401.7 | 1363.4 | 1297.7 | 1089.6 | 878.8  |
| 22.5° | 865.1  | 1043.1 | 1119.7 | 1103.3 | 1084.1 | 1034.8 | 982.8  | 950.0  | 900.7  | 854.2  | 804.9  |
| 25°   | 955.4  | 881.5  | 941.8  | 1138.9 | 1333.2 | 1368.8 | 1404.4 | 1322.3 | 1215.5 | 1004.7 | 793.9  |
| 27.5° | 914.4  | 1029.4 | 1106.0 | 1237.4 | 1366.1 | 1489.3 | 1612.5 | 1503.0 | 1363.4 | 1100.5 | 835.0  |
| 30°   | 985.6  | 1048.5 | 1262.1 | 1508.5 | 1754.8 | 1798.6 | 1839.7 | 1689.1 | 1503.0 | 1237.4 | 971.9  |
| 32.5° | 1037.6 | 1204.6 | 1393.5 | 1585.1 | 1774.0 | 1806.9 | 1839.7 | 1670.0 | 1456.4 | 1163.5 | 870.6  |
| 35°   | 1103.3 | 1226.5 | 1398.9 | 1623.4 | 1847.9 | 1856.1 | 1861.6 | 1664.5 | 1423.6 | 1092.3 | 758.3  |
| 37.5° | 1147.1 | 1286.7 | 1472.9 | 1711.0 | 1949.2 | 1932.8 | 1913.6 | 1689.1 | 1412.6 | 1043.1 | 673.5  |
| 40°   | 1245.6 | 1366.1 | 1565.9 | 1809.6 | 2053.2 | 2025.9 | 1998.5 | 1741.2 | 1415.4 | 993.8  | 569.4  |
| 42.5° | 1418.1 | 1464.7 | 1680.9 | 1941.0 | 2201.1 | 2171.0 | 2138.1 | 1831.5 | 1448.2 | 966.4  | 481.8  |
| 45°   | 1607.0 | 1628.9 | 1815.1 | 2110.7 | 2406.4 | 2368.1 | 2329.8 | 1971.1 | 1508.5 | 952.7  | 397.0  |
| 47.5° | 1804.1 | 1798.6 | 1971.1 | 2329.8 | 2685.7 | 2603.5 | 2521.4 | 2135.4 | 1620.7 | 980.1  | 339.5  |
| 50°   | 2009.4 | 2001.2 | 2168.2 | 2554.2 | 2940.3 | 2852.6 | 2765.0 | 2332.5 | 1749.4 | 1029.4 | 306.6  |
| 52.5° | 2220.2 | 2239.4 | 2362.6 | 2765.0 | 3164.7 | 3085.3 | 3003.2 | 2546.0 | 1875.3 | 1084.1 | 292.9  |
| 55°   | 2472.1 | 2532.3 | 2581.6 | 2984.1 | 3386.5 | 3307.1 | 3225.0 | 2765.0 | 2050.5 | 1169.0 | 287.5  |
| 57.5° | 2737.7 | 2817.1 | 2839.0 | 3205.8 | 3572.7 | 3520.6 | 3465.9 | 2973.1 | 2228.5 | 1267.5 | 303.9  |
| 60°   | 3003.2 | 3107.3 | 3186.6 | 3482.3 | 3775.2 | 3715.0 | 3654.8 | 3183.9 | 2395.5 | 1377.0 | 358.6  |
| 62.5° | 3249.6 | 3394.7 | 3523.4 | 3739.7 | 3953.2 | 3882.0 | 3810.8 | 3367.3 | 2584.4 | 1527.6 | 468.1  |
| 65°   | 3559.0 | 3687.6 | 3827.3 | 3969.6 | 4109.2 | 4040.8 | 3972.4 | 3597.3 | 2836.2 | 1716.5 | 594.1  |
| 67.5° | 4021.6 | 4060.0 | 4131.1 | 4218.7 | 4303.6 | 4262.5 | 4218.7 | 3879.3 | 3055.2 | 1826.0 | 594.1  |
| 70°   | 4818.3 | 4733.4 | 4626.7 | 4623.9 | 4618.4 | 4552.7 | 4484.3 | 4038.1 | 3068.9 | 1782.2 | 495.5  |
| 72.5° | 5571.2 | 5861.3 | 5521.9 | 5275.5 | 5029.1 | 4738.9 | 4446.0 | 3824.5 | 2710.3 | 1552.3 | 394.2  |
| 75°   | 5412.4 | 6540.3 | 6376.0 | 5708.0 | 5040.0 | 4514.4 | 3988.8 | 3331.7 | 2231.2 | 1284.0 | 336.7  |
| 77.5° | 4295.4 | 5771.0 | 5927.0 | 5313.8 | 4697.8 | 3986.0 | 3271.5 | 2576.1 | 1546.8 | 914.4  | 282.0  |
| 80°   | 2726.7 | 4314.6 | 4341.9 | 3772.5 | 3200.3 | 2436.5 | 1672.7 | 1122.4 | 744.6  | 484.6  | 224.5  |
| 82.5° | 1642.6 | 2554.2 | 2223.0 | 1593.3 | 963.7  | 668.0  | 369.6  | 355.9  | 273.8  | 202.6  | 131.4  |
| 85°   | 925.3  | 1251.1 | 898.0  | 588.6  | 279.2  | 199.8  | 117.7  | 125.9  | 120.5  | 98.6   | 73.9   |
| 87.5° | 183.4  | 216.3  | 147.8  | 84.9   | 21.9   | 21.9   | 19.2   | 19.2   | 13.7   | 13.7   | 11.0   |
| 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: P561325

CATALOG NUMBER: SDL-PA1-90-827-U-SL3

**CANDELA DISTRIBUTION (continued):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2132.6 | 2132.6 | 2132.6 | 2132.6 | 2132.6 | 2132.6 | 2132.6 | 2132.6 | 2132.6 | 2132.6 | 2132.6 |
| 2.5°  | 2105.3 | 2105.3 | 2099.8 | 2094.3 | 2091.6 | 2088.8 | 2006.7 | 1924.6 | 1869.8 | 1812.3 | 1798.6 |
| 5°    | 1954.7 | 1853.4 | 1776.7 | 1700.1 | 1683.7 | 1667.2 | 1664.5 | 1661.8 | 1653.6 | 1642.6 | 1639.9 |
| 7.5°  | 1544.0 | 1453.7 | 1516.7 | 1576.9 | 1565.9 | 1552.3 | 1544.0 | 1533.1 | 1513.9 | 1494.8 | 1398.9 |
| 10°   | 1188.1 | 1158.0 | 1158.0 | 1155.3 | 1133.4 | 1111.5 | 1160.8 | 1210.0 | 1264.8 | 1319.6 | 1314.1 |
| 12.5° | 1012.9 | 1054.0 | 947.2  | 837.7  | 898.0  | 955.4  | 1010.2 | 1062.2 | 1089.6 | 1117.0 | 1032.1 |
| 15°   | 955.4  | 829.5  | 793.9  | 758.3  | 785.7  | 813.1  | 733.7  | 651.6  | 714.5  | 777.5  | 791.2  |
| 17.5° | 856.9  | 791.2  | 755.6  | 717.3  | 613.2  | 506.5  | 542.1  | 577.6  | 574.9  | 572.2  | 558.5  |
| 20°   | 799.4  | 717.3  | 654.3  | 588.6  | 539.3  | 490.0  | 438.0  | 383.3  | 358.6  | 331.3  | 397.0  |
| 22.5° | 761.1  | 717.3  | 585.9  | 454.5  | 416.1  | 377.8  | 336.7  | 292.9  | 309.4  | 323.0  | 334.0  |
| 25°   | 665.3  | 533.8  | 459.9  | 386.0  | 325.8  | 262.8  | 265.6  | 268.3  | 254.6  | 240.9  | 303.9  |
| 27.5° | 673.5  | 509.2  | 394.2  | 279.2  | 257.3  | 232.7  | 219.0  | 202.6  | 224.5  | 243.7  | 249.1  |
| 30°   | 706.3  | 440.8  | 334.0  | 227.2  | 202.6  | 177.9  | 186.2  | 191.6  | 191.6  | 191.6  | 219.0  |
| 32.5° | 626.9  | 383.3  | 284.7  | 183.4  | 169.7  | 153.3  | 156.0  | 156.0  | 169.7  | 183.4  | 197.1  |
| 35°   | 531.1  | 301.1  | 232.7  | 161.5  | 147.8  | 134.1  | 139.6  | 145.1  | 158.8  | 172.5  | 191.6  |
| 37.5° | 457.2  | 238.2  | 191.6  | 145.1  | 136.9  | 128.7  | 131.4  | 134.1  | 147.8  | 158.8  | 175.2  |
| 40°   | 386.0  | 199.8  | 169.7  | 139.6  | 131.4  | 123.2  | 125.9  | 125.9  | 136.9  | 147.8  | 158.8  |
| 42.5° | 334.0  | 183.4  | 161.5  | 136.9  | 128.7  | 117.7  | 120.5  | 120.5  | 128.7  | 136.9  | 145.1  |
| 45°   | 287.5  | 175.2  | 156.0  | 134.1  | 125.9  | 115.0  | 115.0  | 112.2  | 120.5  | 125.9  | 131.4  |
| 47.5° | 257.3  | 172.5  | 153.3  | 134.1  | 123.2  | 109.5  | 106.8  | 104.0  | 112.2  | 117.7  | 125.9  |
| 50°   | 240.9  | 172.5  | 153.3  | 131.4  | 117.7  | 104.0  | 101.3  | 98.6   | 109.5  | 117.7  | 131.4  |
| 52.5° | 235.4  | 175.2  | 153.3  | 131.4  | 115.0  | 98.6   | 98.6   | 98.6   | 117.7  | 136.9  | 142.4  |
| 55°   | 235.4  | 180.7  | 156.0  | 128.7  | 112.2  | 95.8   | 101.3  | 106.8  | 112.2  | 117.7  | 117.7  |
| 57.5° | 240.9  | 177.9  | 150.6  | 123.2  | 112.2  | 98.6   | 95.8   | 93.1   | 95.8   | 98.6   | 98.6   |
| 60°   | 265.6  | 172.5  | 145.1  | 117.7  | 104.0  | 90.3   | 87.6   | 84.9   | 90.3   | 93.1   | 93.1   |
| 62.5° | 320.3  | 169.7  | 145.1  | 117.7  | 101.3  | 84.9   | 84.9   | 82.1   | 84.9   | 87.6   | 90.3   |
| 65°   | 391.5  | 188.9  | 153.3  | 117.7  | 101.3  | 84.9   | 79.4   | 73.9   | 79.4   | 82.1   | 82.1   |
| 67.5° | 407.9  | 221.8  | 177.9  | 131.4  | 106.8  | 82.1   | 76.7   | 71.2   | 76.7   | 79.4   | 79.4   |
| 70°   | 369.6  | 243.7  | 191.6  | 139.6  | 112.2  | 82.1   | 76.7   | 68.4   | 71.2   | 73.9   | 71.2   |
| 72.5° | 317.6  | 238.2  | 188.9  | 136.9  | 109.5  | 79.4   | 73.9   | 65.7   | 68.4   | 68.4   | 65.7   |
| 75°   | 271.0  | 205.3  | 161.5  | 115.0  | 93.1   | 68.4   | 63.0   | 57.5   | 60.2   | 60.2   | 60.2   |
| 77.5° | 227.2  | 169.7  | 131.4  | 90.3   | 73.9   | 54.8   | 52.0   | 49.3   | 52.0   | 54.8   | 52.0   |
| 80°   | 177.9  | 128.7  | 98.6   | 65.7   | 54.8   | 41.1   | 43.8   | 43.8   | 46.5   | 46.5   | 46.5   |
| 82.5° | 104.0  | 76.7   | 63.0   | 46.5   | 38.3   | 30.1   | 32.9   | 35.6   | 38.3   | 38.3   | 38.3   |
| 85°   | 63.0   | 49.3   | 41.1   | 32.9   | 27.4   | 19.2   | 24.6   | 27.4   | 27.4   | 27.4   | 24.6   |
| 87.5° | 11.0   | 11.0   | 11.0   | 11.0   | 8.2    | 5.5    | 11.0   | 13.7   | 13.7   | 13.7   | 11.0   |
| 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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|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 2132.6 | 2132.6 | 2132.6 | 2132.6 |
| 2.5°  | 1782.2 | 1782.2 | 1779.5 | 1779.5 |
| 5°    | 1637.1 | 1631.6 | 1626.2 | 1631.6 |
| 7.5°  | 1303.1 | 1264.8 | 1226.5 | 1237.4 |
| 10°   | 1305.9 | 1303.1 | 1300.4 | 1297.7 |
| 12.5° | 944.5  | 914.4  | 884.3  | 865.1  |
| 15°   | 802.1  | 793.9  | 783.0  | 783.0  |
| 17.5° | 542.1  | 517.4  | 492.8  | 476.4  |
| 20°   | 462.7  | 476.4  | 487.3  | 492.8  |
| 22.5° | 344.9  | 355.9  | 366.8  | 372.3  |
| 25°   | 364.1  | 391.5  | 416.1  | 418.9  |
| 27.5° | 251.9  | 265.6  | 276.5  | 271.0  |
| 30°   | 246.4  | 254.6  | 262.8  | 262.8  |
| 32.5° | 210.8  | 232.7  | 254.6  | 257.3  |
| 35°   | 210.8  | 221.8  | 232.7  | 235.4  |
| 37.5° | 188.9  | 197.1  | 202.6  | 205.3  |
| 40°   | 169.7  | 175.2  | 177.9  | 177.9  |
| 42.5° | 150.6  | 164.3  | 175.2  | 175.2  |
| 45°   | 134.1  | 169.7  | 205.3  | 216.3  |
| 47.5° | 131.4  | 183.4  | 235.4  | 246.4  |
| 50°   | 142.4  | 191.6  | 238.2  | 243.7  |
| 52.5° | 145.1  | 172.5  | 197.1  | 197.1  |
| 55°   | 115.0  | 128.7  | 139.6  | 136.9  |
| 57.5° | 98.6   | 109.5  | 117.7  | 117.7  |
| 60°   | 93.1   | 106.8  | 117.7  | 120.5  |
| 62.5° | 90.3   | 95.8   | 101.3  | 106.8  |
| 65°   | 82.1   | 82.1   | 82.1   | 82.1   |
| 67.5° | 76.7   | 76.7   | 73.9   | 73.9   |
| 70°   | 68.4   | 68.4   | 68.4   | 68.4   |
| 72.5° | 63.0   | 63.0   | 63.0   | 60.2   |
| 75°   | 57.5   | 57.5   | 54.8   | 54.8   |
| 77.5° | 49.3   | 49.3   | 49.3   | 49.3   |
| 80°   | 43.8   | 43.8   | 41.1   | 41.1   |
| 82.5° | 35.6   | 35.6   | 32.9   | 30.1   |
| 85°   | 21.9   | 21.9   | 19.2   | 16.4   |
| 87.5° | 8.2    | 8.2    | 5.5    | 2.7    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

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