

Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1209574

Luminaire Tested: UPW-SA2-130-740-U-T4W-HSS

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209574  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-130-740-U-T4W-HSS  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11737 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

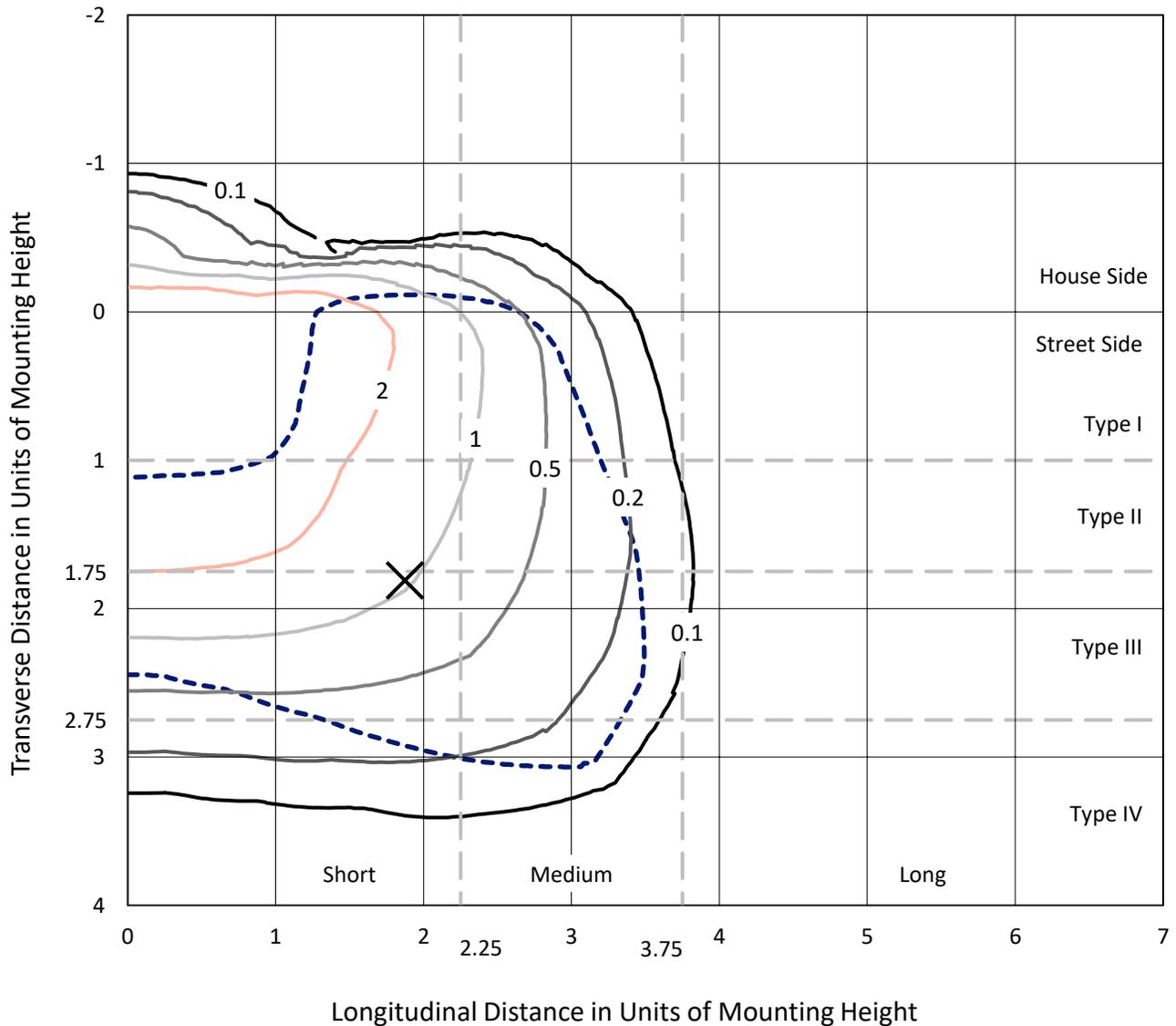
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

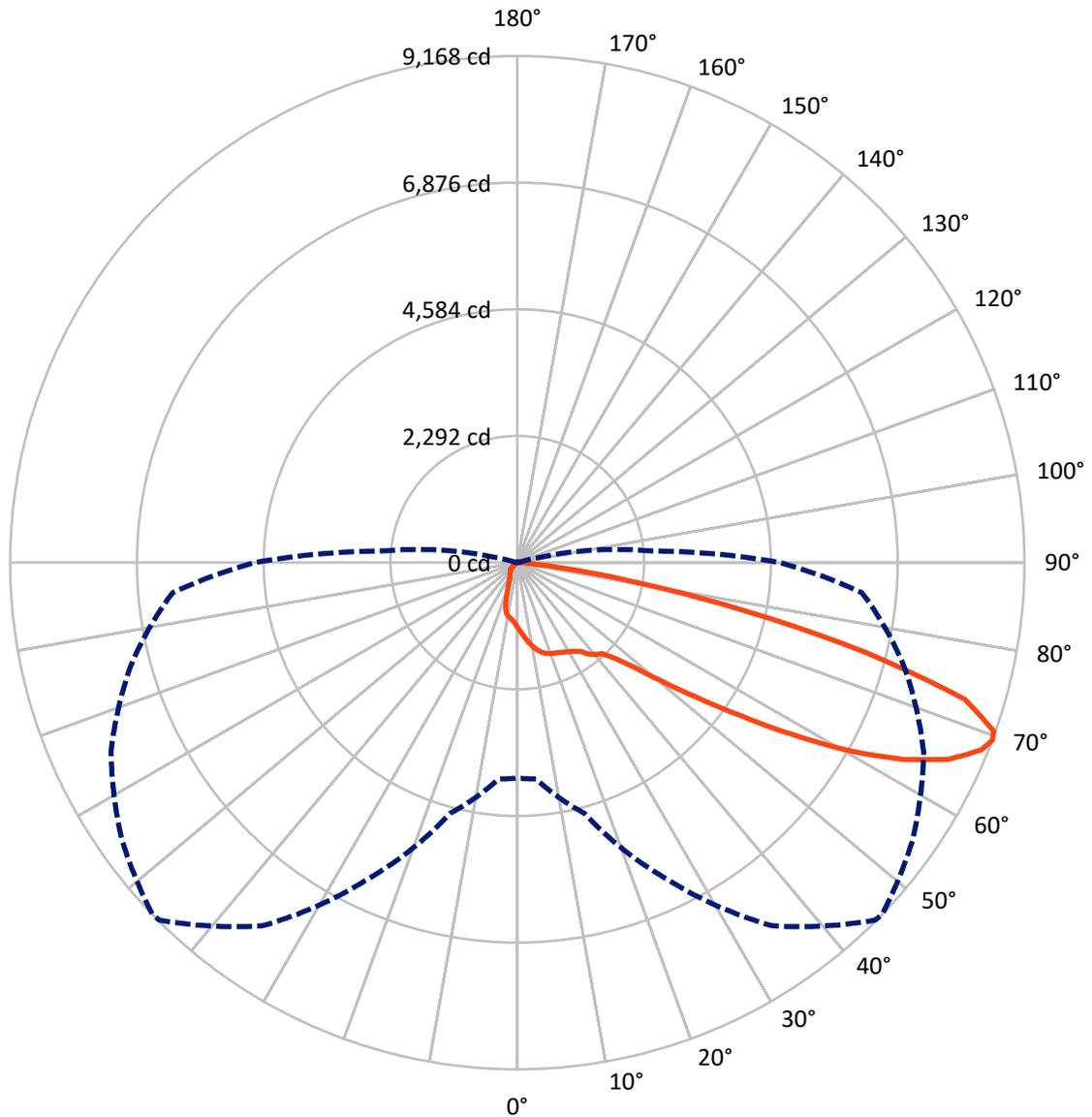
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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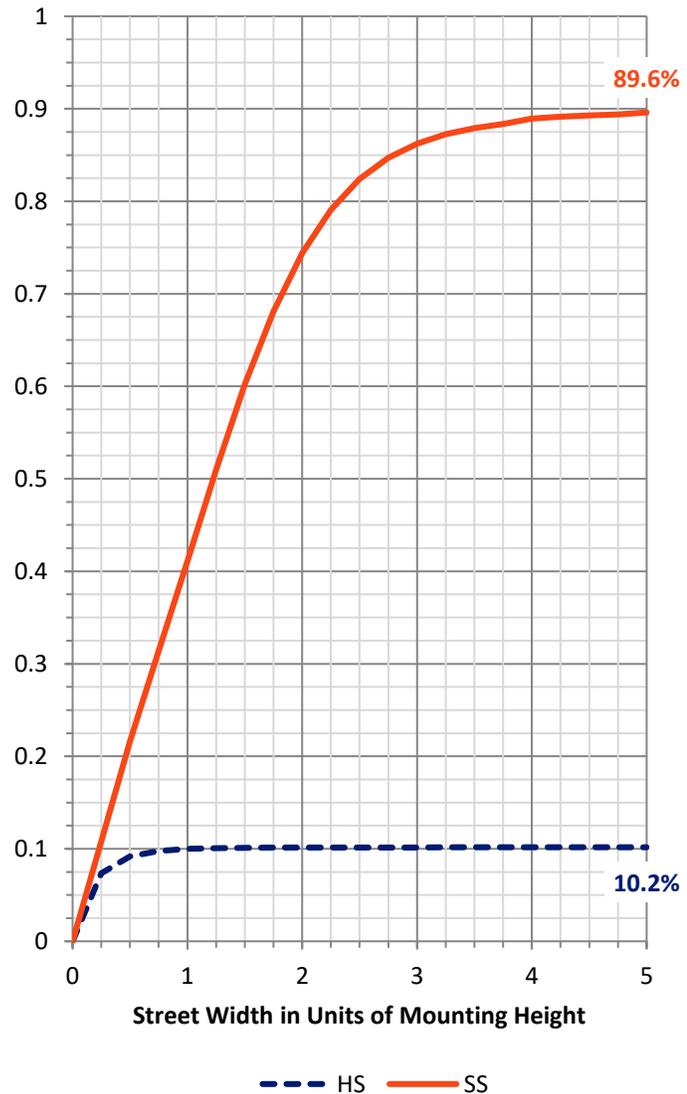
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1204.6   | 0.0    | 1204.6  |
|                    | % Fixture | 10.3     | 0.0    | 10.3    |
| <b>Street Side</b> | Lumens    | 10532.5  | 0.0    | 10532.5 |
|                    | % Fixture | 89.7     | 0.0    | 89.7    |
| <b>Total</b>       | Lumens    | 11737.0  | 0.0    | 11737.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 117.1   | 1.0       |
| 10°-20°   | 355.1   | 3.0       |
| 20°-30°   | 558.5   | 4.8       |
| 30°-40°   | 800.9   | 6.8       |
| 40°-50°   | 1384.2  | 11.8      |
| 50°-60°   | 2734.6  | 23.3      |
| 60°-70°   | 3821.8  | 32.6      |
| 70°-80°   | 1846.3  | 15.7      |
| 80°-90°   | 118.7   | 1.0       |
| 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°    | 11737.0 | 100.0     |
| 0°-180°   | 11737.0 | 100.0     |



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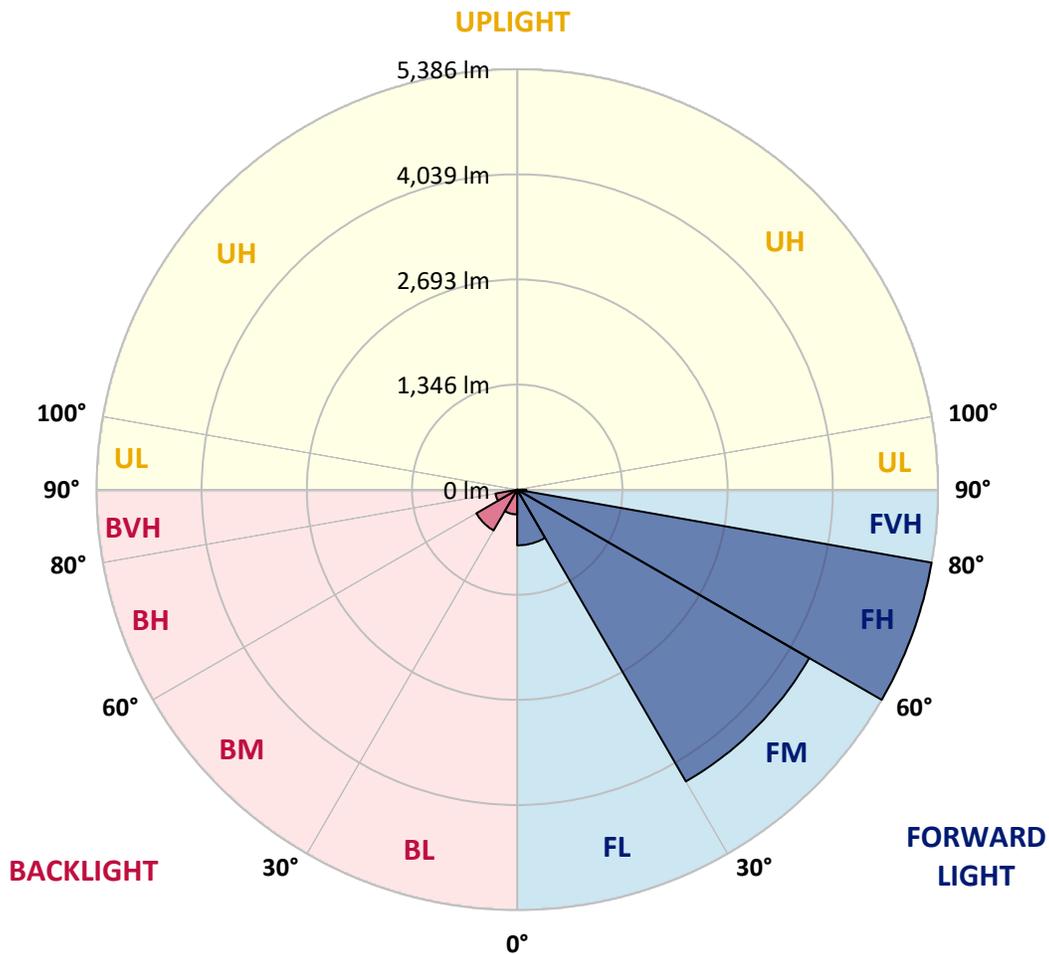
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 713.2  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 4316.0 | 36.8      |                         |      |         |
| FH   | (60°-80°)   | 5385.7 | 45.9      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 117.7  | 1.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 317.5  | 2.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 603.6  | 5.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 282.5  | 2.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 1.0    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type IV Short





REPORT NUMBER: P1209574

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 46°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1176.0 | 1176.0 | 1176.0 | 1176.0 | 1176.0 | 1176.0 | 1176.0 | 1176.0 | 1176.0 | 1176.0 | 1176.0 |
| 2.5°  | 1306.4 | 1304.8 | 1297.1 | 1293.8 | 1275.1 | 1264.1 | 1259.7 | 1245.9 | 1226.1 | 1206.3 | 1184.3 |
| 5°    | 1455.0 | 1454.5 | 1440.2 | 1426.4 | 1391.2 | 1358.2 | 1352.1 | 1320.2 | 1275.6 | 1233.8 | 1192.0 |
| 7.5°  | 1606.9 | 1599.7 | 1585.4 | 1559.0 | 1507.8 | 1455.0 | 1450.1 | 1404.9 | 1341.6 | 1281.1 | 1221.1 |
| 10°   | 1735.7 | 1731.3 | 1712.6 | 1672.4 | 1612.4 | 1552.4 | 1546.4 | 1490.8 | 1419.2 | 1344.9 | 1268.5 |
| 12.5° | 1835.8 | 1832.5 | 1807.8 | 1757.7 | 1693.8 | 1631.7 | 1623.4 | 1573.9 | 1497.4 | 1414.3 | 1324.0 |
| 15°   | 1896.9 | 1895.3 | 1865.0 | 1811.6 | 1748.9 | 1694.9 | 1687.8 | 1644.3 | 1573.3 | 1486.4 | 1384.6 |
| 17.5° | 1911.2 | 1911.8 | 1880.4 | 1826.5 | 1774.7 | 1736.2 | 1730.7 | 1697.7 | 1638.3 | 1551.9 | 1445.1 |
| 20°   | 1879.3 | 1885.9 | 1857.8 | 1811.1 | 1779.1 | 1758.8 | 1754.4 | 1734.6 | 1684.5 | 1603.0 | 1493.5 |
| 22.5° | 1834.2 | 1837.5 | 1818.2 | 1786.8 | 1773.6 | 1777.5 | 1775.3 | 1764.3 | 1721.9 | 1647.1 | 1541.4 |
| 25°   | 1806.7 | 1806.7 | 1795.1 | 1768.7 | 1777.5 | 1801.2 | 1801.7 | 1799.5 | 1765.9 | 1701.0 | 1599.7 |
| 27.5° | 1805.6 | 1802.3 | 1789.0 | 1769.2 | 1793.4 | 1829.8 | 1832.0 | 1846.8 | 1825.9 | 1766.5 | 1672.4 |
| 30°   | 1849.6 | 1845.7 | 1817.7 | 1791.8 | 1822.6 | 1861.7 | 1867.2 | 1899.7 | 1889.2 | 1837.5 | 1753.3 |
| 32.5° | 1952.5 | 1938.7 | 1876.5 | 1834.2 | 1857.3 | 1904.1 | 1911.2 | 1962.9 | 1979.5 | 1925.0 | 1831.4 |
| 35°   | 2093.4 | 2049.9 | 1960.2 | 1914.5 | 1916.7 | 1965.7 | 1972.3 | 2048.2 | 2097.2 | 2005.3 | 1892.0 |
| 37.5° | 2287.6 | 2266.2 | 2120.3 | 1998.2 | 2008.1 | 2082.4 | 2101.6 | 2184.2 | 2170.4 | 2049.3 | 1960.7 |
| 40°   | 2713.6 | 2680.0 | 2524.8 | 2232.6 | 2095.6 | 2177.0 | 2183.1 | 2227.1 | 2228.2 | 2148.9 | 2103.8 |
| 42.5° | 3293.6 | 3279.8 | 3116.4 | 2658.0 | 2267.8 | 2240.3 | 2251.3 | 2325.6 | 2408.7 | 2359.2 | 2357.0 |
| 45°   | 3935.8 | 3928.6 | 3755.3 | 3222.6 | 2616.2 | 2447.8 | 2461.5 | 2561.1 | 2720.2 | 2731.2 | 2801.1 |
| 47.5° | 4452.5 | 4449.2 | 4349.6 | 3852.7 | 3149.4 | 2799.4 | 2803.8 | 2909.5 | 3189.0 | 3327.1 | 3438.9 |
| 50°   | 4923.6 | 4939.5 | 4860.9 | 4534.5 | 3875.8 | 3350.3 | 3339.8 | 3410.2 | 3859.3 | 4085.5 | 4224.1 |
| 52.5° | 5578.5 | 5601.0 | 5380.3 | 5170.7 | 4638.0 | 4033.7 | 4025.5 | 4099.2 | 4664.9 | 4834.4 | 4859.2 |
| 55°   | 6156.8 | 6118.3 | 5943.9 | 5883.3 | 5567.4 | 4877.9 | 4875.7 | 4940.6 | 5444.2 | 5516.3 | 5561.9 |
| 57.5° | 6412.2 | 6397.3 | 6481.5 | 6620.2 | 6540.9 | 5875.6 | 5870.7 | 5821.1 | 6141.4 | 6149.1 | 6289.4 |
| 60°   | 6573.4 | 6591.6 | 6849.7 | 7277.2 | 7474.8 | 6949.3 | 6917.3 | 6615.2 | 6807.3 | 6790.2 | 6940.5 |
| 62.5° | 6452.3 | 6488.1 | 6952.6 | 7665.2 | 8173.7 | 7886.4 | 7841.3 | 7342.7 | 7376.3 | 7317.4 | 7457.2 |
| 65°   | 5809.6 | 5865.2 | 6626.2 | 7592.0 | 8520.4 | 8618.9 | 8573.2 | 7984.9 | 7828.1 | 7731.2 | 7653.7 |
| 67.5° | 4717.2 | 4750.2 | 5544.9 | 6955.3 | 8364.1 | 9055.8 | 9046.5 | 8547.9 | 8169.3 | 7661.4 | 7059.3 |
| 69°   | 3898.4 | 3930.8 | 4695.8 | 6285.0 | 8020.2 | 9149.4 | 9167.5 | 8728.4 | 8104.4 | 7236.5 | 6254.8 |
| 70°   | 3301.8 | 3336.5 | 4049.2 | 5710.5 | 7621.2 | 9105.9 | 9138.4 | 8711.3 | 7918.4 | 6744.5 | 5548.7 |
| 72.5° | 1731.8 | 1761.5 | 2492.9 | 3934.1 | 6213.0 | 8361.3 | 8459.9 | 7975.0 | 6712.1 | 4898.3 | 3280.9 |
| 75°   | 544.3  | 561.3  | 973.5  | 2056.5 | 4253.9 | 6501.3 | 6523.9 | 6255.9 | 4766.2 | 2694.3 | 1366.4 |
| 77.5° | 207.5  | 202.5  | 324.1  | 757.8  | 2150.6 | 4093.7 | 4231.9 | 3909.4 | 2501.1 | 952.6  | 315.3  |
| 80°   | 111.7  | 112.3  | 168.4  | 313.7  | 920.1  | 2103.8 | 2220.5 | 1894.7 | 888.7  | 297.2  | 72.6   |
| 82.5° | 48.4   | 50.6   | 94.7   | 166.2  | 422.6  | 775.9  | 834.3  | 694.5  | 339.5  | 199.8  | 27.0   |
| 85°   | 10.5   | 11.6   | 45.7   | 90.3   | 172.2  | 217.9  | 228.4  | 225.1  | 216.3  | 155.2  | 10.5   |
| 87.5° | 0.0    | 0.0    | 20.4   | 32.5   | 43.5   | 49.5   | 43.5   | 56.7   | 119.4  | 104.6  | 5.5    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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CATALOG NUMBER: UPW-SA2-130-740-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1176.0 | 1176.0 | 1176.0 | 1176.0 | 1176.0 | 1176.0 | 1176.0 | 1176.0 | 1176.0 | 1176.0 | 1176.0 |
| 2.5°  | 1177.1 | 1167.2 | 1150.1 | 1131.4 | 1118.2 | 1104.5 | 1093.5 | 1088.5 | 1083.0 | 1079.1 | 1084.1 |
| 5°    | 1174.9 | 1155.6 | 1122.6 | 1090.7 | 1067.6 | 1048.9 | 1033.5 | 1027.4 | 1021.4 | 1017.0 | 1016.4 |
| 7.5°  | 1194.2 | 1167.2 | 1116.6 | 1069.8 | 1034.0 | 1008.7 | 987.8  | 979.0  | 971.8  | 968.5  | 965.8  |
| 10°   | 1231.0 | 1196.4 | 1128.7 | 1067.6 | 1021.4 | 978.4  | 933.3  | 898.6  | 876.1  | 865.6  | 861.8  |
| 12.5° | 1278.9 | 1235.4 | 1151.8 | 1079.1 | 1012.0 | 929.5  | 833.7  | 751.2  | 697.8  | 680.2  | 669.7  |
| 15°   | 1335.0 | 1281.1 | 1182.1 | 1094.0 | 977.9  | 827.1  | 664.8  | 556.9  | 507.4  | 497.5  | 486.5  |
| 17.5° | 1389.0 | 1329.5 | 1218.4 | 1096.8 | 903.1  | 660.9  | 487.0  | 413.8  | 394.6  | 401.2  | 402.8  |
| 20°   | 1436.3 | 1377.4 | 1254.1 | 1072.5 | 767.1  | 495.8  | 377.0  | 358.8  | 366.0  | 378.6  | 380.8  |
| 22.5° | 1484.2 | 1423.6 | 1287.2 | 1008.7 | 593.2  | 376.4  | 339.5  | 343.9  | 351.1  | 363.8  | 366.0  |
| 25°   | 1542.5 | 1479.8 | 1318.0 | 891.5  | 445.2  | 320.3  | 322.5  | 329.1  | 336.2  | 347.8  | 348.9  |
| 27.5° | 1609.6 | 1550.8 | 1338.3 | 739.1  | 330.2  | 294.4  | 301.6  | 311.5  | 318.6  | 329.6  | 331.8  |
| 30°   | 1698.8 | 1644.3 | 1344.9 | 581.1  | 276.8  | 271.3  | 274.6  | 286.7  | 297.2  | 307.1  | 308.7  |
| 32.5° | 1782.4 | 1736.8 | 1322.9 | 438.6  | 256.4  | 249.8  | 249.8  | 257.0  | 269.1  | 278.5  | 280.7  |
| 35°   | 1859.5 | 1829.8 | 1252.5 | 320.8  | 241.0  | 230.0  | 224.5  | 224.5  | 232.2  | 239.9  | 242.1  |
| 37.5° | 1961.3 | 1960.2 | 1138.6 | 255.9  | 226.2  | 213.5  | 202.0  | 193.2  | 190.4  | 192.1  | 193.2  |
| 40°   | 2135.7 | 2137.4 | 990.0  | 229.5  | 213.5  | 196.5  | 178.8  | 162.9  | 148.0  | 143.1  | 142.5  |
| 42.5° | 2408.1 | 2383.4 | 834.3  | 216.8  | 202.5  | 178.8  | 152.4  | 131.0  | 107.9  | 100.7  | 100.2  |
| 45°   | 2840.7 | 2693.7 | 669.2  | 205.3  | 191.0  | 159.0  | 126.0  | 96.9   | 78.1   | 72.6   | 72.6   |
| 47.5° | 3470.8 | 3101.5 | 518.4  | 192.6  | 175.5  | 136.5  | 95.2   | 69.9   | 57.2   | 54.5   | 55.0   |
| 50°   | 4122.3 | 3501.0 | 397.3  | 176.6  | 156.8  | 112.8  | 70.4   | 50.6   | 43.5   | 43.5   | 44.0   |
| 52.5° | 4700.2 | 3793.8 | 309.8  | 159.6  | 133.7  | 88.6   | 53.4   | 39.6   | 36.3   | 35.8   | 36.3   |
| 55°   | 5241.1 | 3982.6 | 237.2  | 139.8  | 106.2  | 66.0   | 40.7   | 32.5   | 30.3   | 29.2   | 28.6   |
| 57.5° | 5762.8 | 4076.1 | 177.7  | 112.8  | 77.0   | 47.9   | 32.5   | 27.5   | 25.3   | 23.7   | 23.1   |
| 60°   | 6110.0 | 4000.2 | 122.2  | 83.1   | 53.4   | 34.7   | 27.0   | 23.7   | 20.9   | 19.3   | 18.7   |
| 62.5° | 6306.0 | 3792.7 | 78.7   | 60.0   | 38.0   | 25.9   | 21.5   | 19.8   | 16.0   | 14.3   | 14.3   |
| 65°   | 6226.7 | 3450.4 | 55.0   | 42.9   | 27.5   | 19.3   | 16.0   | 16.0   | 11.6   | 9.4    | 8.8    |
| 67.5° | 5517.9 | 2915.0 | 41.8   | 31.9   | 19.8   | 14.3   | 12.1   | 13.8   | 7.2    | 4.4    | 4.4    |
| 69°   | 4747.5 | 2415.8 | 35.8   | 26.4   | 16.5   | 11.6   | 10.5   | 12.7   | 5.0    | 3.3    | 2.8    |
| 70°   | 4126.2 | 2084.0 | 32.5   | 23.1   | 13.8   | 9.9    | 9.4    | 12.1   | 5.0    | 2.8    | 2.2    |
| 72.5° | 2468.7 | 1162.2 | 24.8   | 16.5   | 8.8    | 7.7    | 7.7    | 13.8   | 5.0    | 2.8    | 2.2    |
| 75°   | 997.7  | 409.4  | 18.2   | 11.6   | 6.6    | 6.6    | 9.4    | 17.6   | 4.4    | 2.2    | 1.7    |
| 77.5° | 226.2  | 89.7   | 10.5   | 7.2    | 4.4    | 6.6    | 11.0   | 13.8   | 2.8    | 1.1    | 0.0    |
| 80°   | 55.0   | 22.0   | 6.6    | 4.4    | 2.8    | 5.0    | 8.3    | 7.7    | 0.6    | 0.0    | 0.0    |
| 82.5° | 18.2   | 7.7    | 2.8    | 2.2    | 0.6    | 1.7    | 3.9    | 2.2    | 0.0    | 0.0    | 0.0    |
| 85°   | 7.7    | 4.4    | 1.1    | 0.6    | 0.0    | 0.0    | 0.6    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 5.0    | 1.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)