

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: P286979

Luminaire Tested: **USSL-C027-D-U-T4-BZ-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P286979  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-8)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: USSL-C027-D-U-T4-BZ-7050  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13378 lumens  
Efficiency: N/A  
Efficacy: 139.4 lumens/watt  
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G4

Input Watts (W): 96  
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

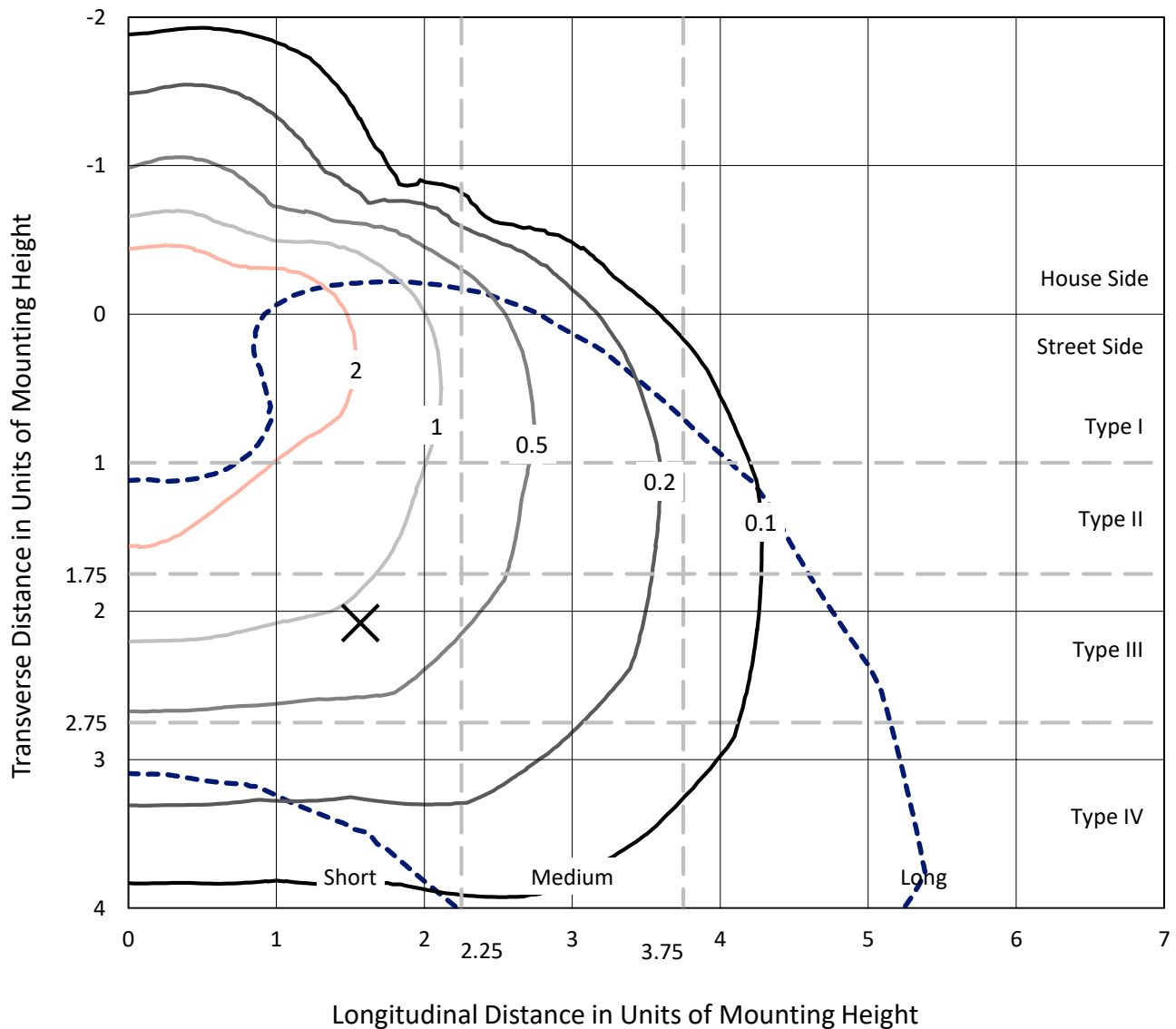


REPORT NUMBER: P286979

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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

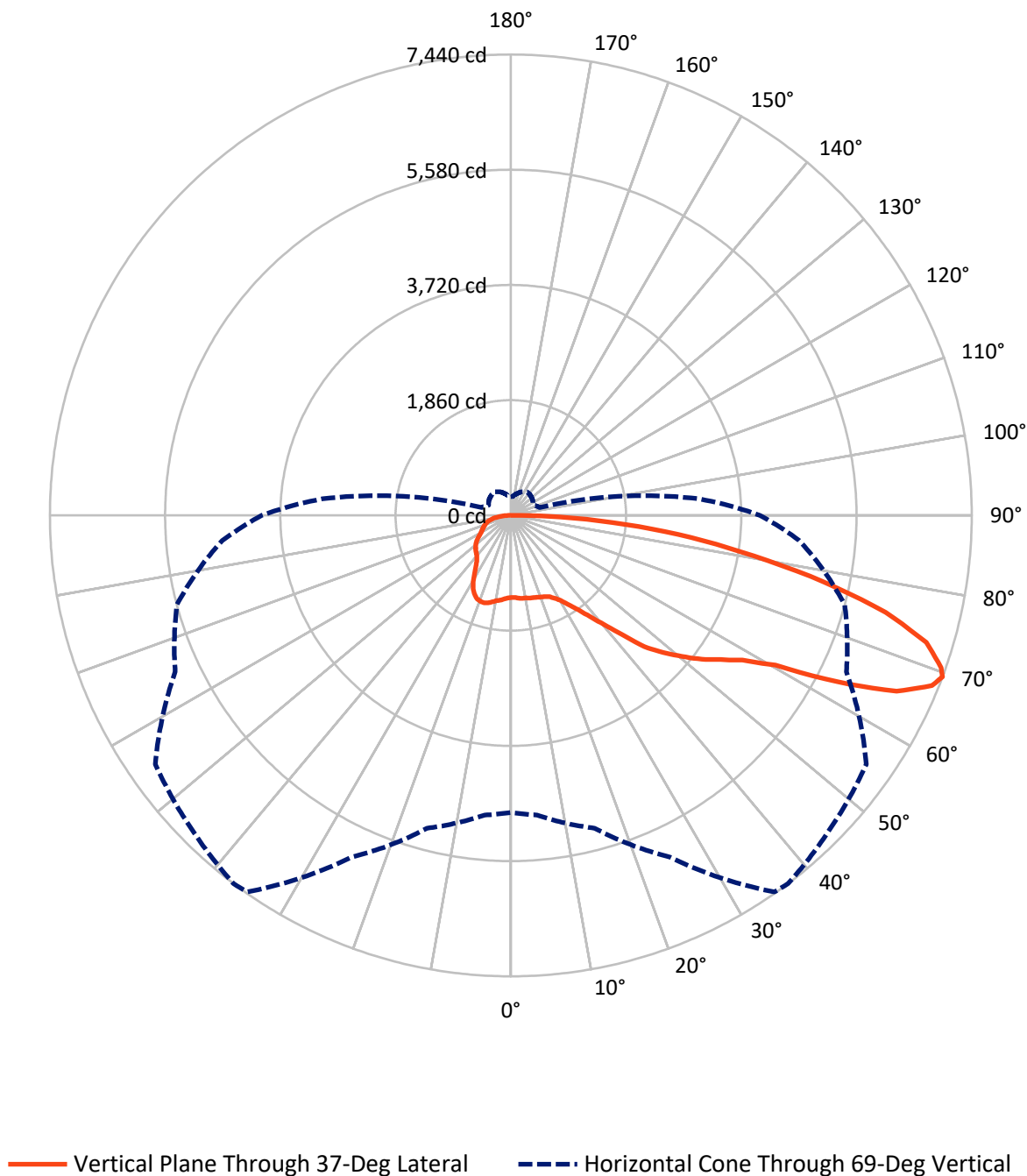


Based on 20 foot mounting height. Maximum calculated value = 4 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P286979

CATALOG NUMBER: USSL-C027-D-U-T4-BZ-7050

## Luminous Intensity Polar Plot



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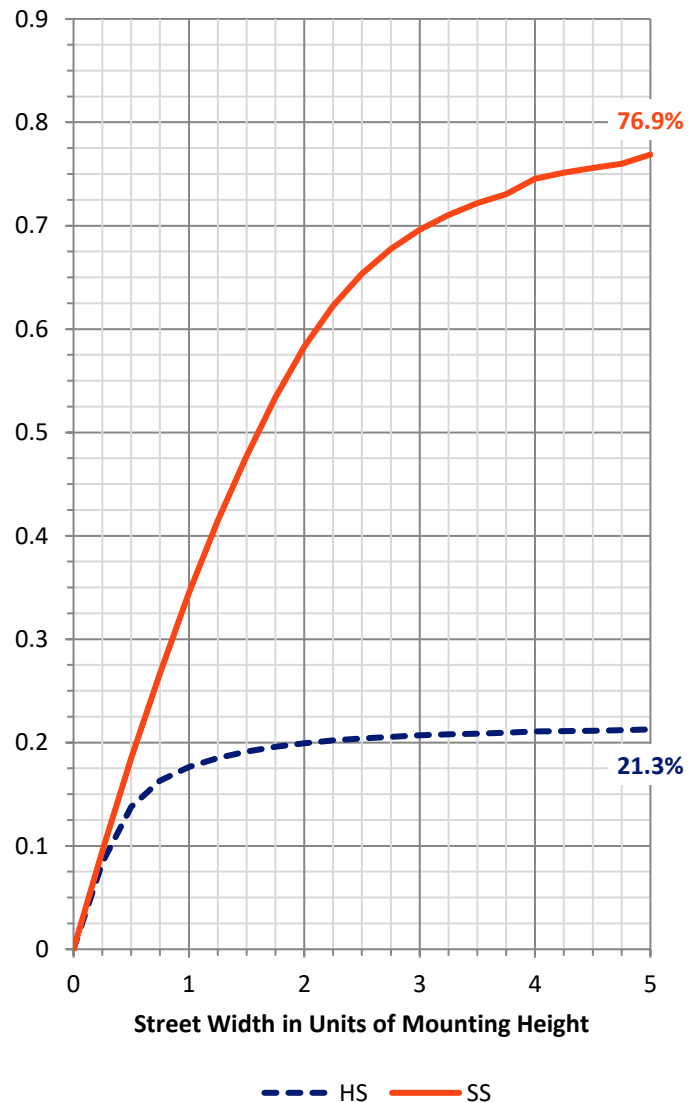
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2884.7   | 0.0    | 2884.7  |
|                    | % Fixture | 21.6     | 0.0    | 21.6    |
| <b>Street Side</b> | Lumens    | 10493.3  | 0.0    | 10493.3 |
|                    | % Fixture | 78.4     | 0.0    | 78.4    |
| <b>Total</b>       | Lumens    | 13378.0  | 0.0    | 13378.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 129.3   | 1.0       |
| 10°-20°   | 404.2   | 3.0       |
| 20°-30°   | 690.7   | 5.2       |
| 30°-40°   | 1094.9  | 8.2       |
| 40°-50°   | 1860.5  | 13.9      |
| 50°-60°   | 2637.8  | 19.7      |
| 60°-70°   | 3356.7  | 25.1      |
| 70°-80°   | 2576.1  | 19.3      |
| 80°-90°   | 627.9   | 4.7       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 13378.0 | 100.0     |
| 0°-180°   | 13378.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P286979

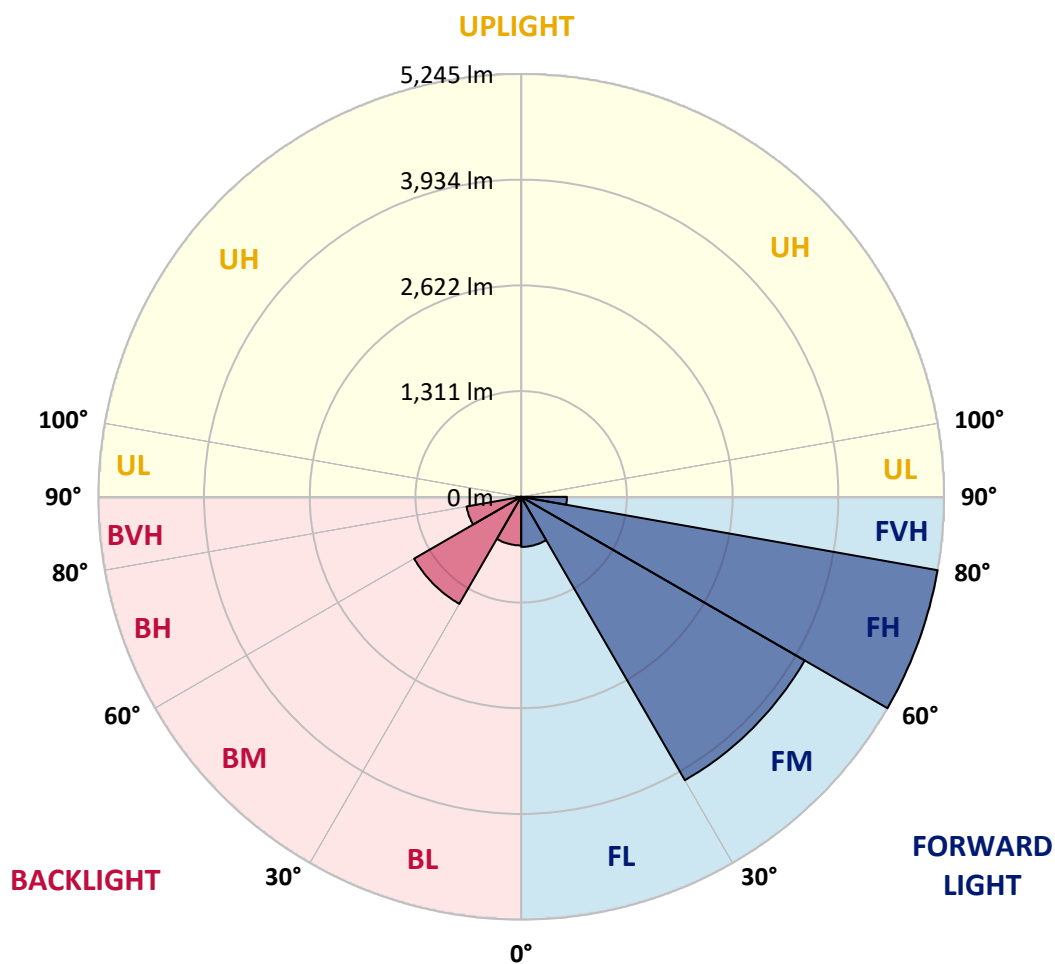
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 621.0  | 4.6       |                         |      |         |
| FM   | (30°-60°)   | 4060.0 | 30.3      |                         |      |         |
| FH   | (60°-80°)   | 5244.7 | 39.2      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 567.6  | 4.2       |                         |      | G4/750  |
| BL   | (0°-30°)    | 603.2  | 4.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1533.1 | 11.5      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 688.1  | 5.1       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 60.3   | 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-G4**

Type IV Short





REPORT NUMBER: P286979

CATALOG NUMBER: USSL-C027-D-U-T4-BZ-7050

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 37°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1324.8 | 1324.8 | 1324.8 | 1324.8 | 1324.8 | 1324.8 | 1324.8 | 1324.8 | 1324.8 | 1324.8 | 1324.8 |
| 2.5°  | 1350.4 | 1343.1 | 1343.1 | 1328.0 | 1328.0 | 1326.7 | 1330.0 | 1322.1 | 1320.8 | 1319.5 | 1314.9 |
| 5°    | 1367.4 | 1364.8 | 1355.6 | 1344.5 | 1349.7 | 1342.5 | 1342.5 | 1332.0 | 1332.6 | 1331.3 | 1324.1 |
| 7.5°  | 1363.5 | 1368.1 | 1367.4 | 1354.3 | 1350.4 | 1352.3 | 1353.0 | 1353.6 | 1347.1 | 1346.4 | 1341.2 |
| 10°   | 1375.9 | 1371.4 | 1373.3 | 1353.0 | 1358.2 | 1353.6 | 1360.9 | 1360.2 | 1360.2 | 1360.2 | 1354.3 |
| 12.5° | 1349.7 | 1355.0 | 1356.9 | 1360.2 | 1370.0 | 1370.0 | 1381.9 | 1386.4 | 1396.3 | 1402.9 | 1395.0 |
| 15°   | 1342.5 | 1337.9 | 1356.9 | 1355.0 | 1377.9 | 1375.9 | 1395.0 | 1420.6 | 1429.1 | 1446.8 | 1451.4 |
| 17.5° | 1338.5 | 1347.7 | 1362.2 | 1361.5 | 1383.8 | 1388.4 | 1414.7 | 1443.5 | 1467.8 | 1497.3 | 1507.8 |
| 20°   | 1349.7 | 1349.7 | 1364.8 | 1371.4 | 1405.5 | 1405.5 | 1433.0 | 1469.1 | 1507.2 | 1550.5 | 1572.8 |
| 22.5° | 1385.1 | 1386.4 | 1400.2 | 1393.0 | 1414.7 | 1422.5 | 1446.2 | 1486.8 | 1545.9 | 1593.1 | 1639.1 |
| 25°   | 1405.5 | 1413.3 | 1429.8 | 1427.8 | 1448.8 | 1454.7 | 1482.9 | 1535.4 | 1599.0 | 1661.4 | 1738.1 |
| 27.5° | 1452.7 | 1453.4 | 1466.5 | 1462.6 | 1512.4 | 1515.1 | 1540.6 | 1580.7 | 1673.2 | 1744.7 | 1852.3 |
| 30°   | 1521.0 | 1524.9 | 1533.4 | 1545.2 | 1597.1 | 1594.4 | 1611.5 | 1664.7 | 1753.9 | 1850.3 | 1996.7 |
| 32.5° | 1669.2 | 1660.7 | 1650.2 | 1652.2 | 1703.4 | 1717.8 | 1750.6 | 1813.6 | 1923.8 | 2040.6 | 2198.8 |
| 35°   | 1921.9 | 1916.6 | 1878.6 | 1833.9 | 1851.7 | 1868.7 | 1922.5 | 2043.3 | 2213.2 | 2487.5 | 2628.5 |
| 37.5° | 2251.9 | 2267.7 | 2196.1 | 2101.0 | 2062.3 | 2066.2 | 2116.1 | 2279.5 | 2557.0 | 3075.4 | 3164.6 |
| 40°   | 2669.9 | 2646.3 | 2558.3 | 2431.0 | 2333.3 | 2312.9 | 2328.7 | 2538.0 | 2941.5 | 3593.7 | 3610.8 |
| 42.5° | 2975.0 | 2978.3 | 2878.5 | 2786.0 | 2658.1 | 2620.0 | 2593.8 | 2791.9 | 3339.2 | 3993.3 | 3933.0 |
| 45°   | 3328.7 | 3354.2 | 3245.3 | 3150.2 | 3060.3 | 3020.9 | 2981.6 | 3102.9 | 3750.6 | 4310.9 | 4207.2 |
| 47.5° | 3628.5 | 3633.1 | 3492.7 | 3421.8 | 3322.1 | 3304.4 | 3266.3 | 3383.1 | 4085.2 | 4560.2 | 4418.5 |
| 50°   | 3906.7 | 3954.6 | 3772.2 | 3671.2 | 3587.8 | 3576.7 | 3590.5 | 3700.7 | 4411.3 | 4776.1 | 4589.1 |
| 52.5° | 4384.4 | 4310.9 | 4097.7 | 3907.4 | 3855.5 | 3856.2 | 3853.6 | 4033.4 | 4748.6 | 4957.9 | 4729.5 |
| 55°   | 4824.7 | 4681.6 | 4446.1 | 4232.2 | 4105.5 | 4106.8 | 4129.2 | 4349.0 | 5028.1 | 5133.1 | 4825.3 |
| 57.5° | 5100.3 | 5179.0 | 4963.1 | 4642.3 | 4402.8 | 4406.7 | 4406.1 | 4644.2 | 5268.2 | 5287.3 | 4899.5 |
| 60°   | 5502.5 | 5596.3 | 5539.9 | 5299.1 | 4977.6 | 4906.7 | 4727.6 | 4977.6 | 5514.9 | 5434.9 | 4978.2 |
| 62.5° | 5796.4 | 5866.0 | 6022.8 | 5888.3 | 5906.7 | 5913.9 | 5350.9 | 5357.5 | 5691.5 | 5556.9 | 4995.3 |
| 65°   | 5797.1 | 5795.8 | 6159.9 | 6327.9 | 6765.6 | 6841.7 | 6604.8 | 5882.4 | 5858.8 | 5576.6 | 4929.7 |
| 67.5° | 5243.3 | 5277.4 | 5660.6 | 6284.6 | 7274.7 | 7331.8 | 7180.3 | 6712.4 | 5945.4 | 5598.9 | 4823.4 |
| 69°   | 4795.8 | 4856.2 | 5226.9 | 6085.1 | 7419.1 | 7440.1 | 7235.4 | 7005.1 | 5976.9 | 5579.9 | 4675.1 |
| 70°   | 4499.9 | 4502.5 | 4880.5 | 5839.1 | 7346.3 | 7369.9 | 7231.4 | 7054.9 | 5950.0 | 5526.1 | 4558.3 |
| 72.5° | 3551.1 | 3588.5 | 3923.1 | 4960.5 | 6988.7 | 7011.6 | 6963.7 | 6923.7 | 5911.3 | 5287.9 | 3920.5 |
| 75°   | 2596.4 | 2621.3 | 2927.1 | 3885.7 | 6111.4 | 6249.8 | 6459.8 | 6684.2 | 5508.4 | 4547.1 | 2951.4 |
| 77.5° | 1820.8 | 1853.6 | 2168.6 | 2949.4 | 4977.6 | 5167.8 | 5640.9 | 5850.9 | 4667.2 | 3561.6 | 1645.6 |
| 80°   | 1215.8 | 1256.5 | 1542.6 | 2196.8 | 3789.3 | 3983.5 | 4530.7 | 4621.3 | 3570.1 | 2136.4 | 326.1  |
| 82.5° | 773.6  | 784.1  | 1011.8 | 1552.5 | 2818.2 | 2929.7 | 3127.9 | 2938.2 | 1892.3 | 486.9  | 96.5   |
| 85°   | 451.4  | 470.5  | 612.2  | 974.4  | 1737.5 | 1864.8 | 1951.4 | 1458.0 | 457.3  | 65.6   | 51.8   |
| 87.5° | 169.9  | 177.8  | 248.0  | 421.2  | 813.0  | 800.5  | 776.9  | 492.1  | 82.0   | 30.2   | 23.6   |
| 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: P286979

CATALOG NUMBER: USSL-C027-D-U-T4-BZ-7050

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1324.8 | 1324.8 | 1324.8 | 1324.8 | 1324.8 | 1324.8 | 1324.8 | 1324.8 | 1324.8 | 1324.8 | 1324.8 |
| 2.5°  | 1314.3 | 1326.1 | 1320.2 | 1317.6 | 1316.2 | 1322.8 | 1335.3 | 1332.0 | 1330.0 | 1351.7 | 1353.6 |
| 5°    | 1324.1 | 1340.5 | 1339.9 | 1342.5 | 1338.5 | 1346.4 | 1352.3 | 1354.3 | 1356.3 | 1379.2 | 1382.5 |
| 7.5°  | 1342.5 | 1349.7 | 1352.3 | 1362.8 | 1356.9 | 1369.4 | 1379.9 | 1369.4 | 1379.2 | 1395.6 | 1398.9 |
| 10°   | 1358.9 | 1370.0 | 1370.7 | 1387.1 | 1381.2 | 1393.0 | 1395.6 | 1395.6 | 1403.5 | 1422.5 | 1419.3 |
| 12.5° | 1398.3 | 1398.9 | 1421.9 | 1423.2 | 1431.1 | 1430.4 | 1425.2 | 1410.1 | 1402.9 | 1428.4 | 1430.4 |
| 15°   | 1455.3 | 1462.6 | 1492.1 | 1490.1 | 1480.3 | 1475.0 | 1452.7 | 1415.3 | 1393.7 | 1389.7 | 1389.7 |
| 17.5° | 1524.2 | 1526.2 | 1564.3 | 1556.4 | 1540.6 | 1506.5 | 1469.8 | 1403.5 | 1342.5 | 1322.8 | 1311.0 |
| 20°   | 1580.7 | 1597.1 | 1643.7 | 1616.8 | 1589.2 | 1534.1 | 1453.4 | 1362.2 | 1267.7 | 1219.8 | 1207.3 |
| 22.5° | 1657.4 | 1689.6 | 1716.5 | 1677.1 | 1619.4 | 1539.3 | 1433.0 | 1301.8 | 1177.8 | 1103.0 | 1089.9 |
| 25°   | 1766.4 | 1784.7 | 1783.4 | 1715.2 | 1624.0 | 1522.9 | 1374.6 | 1216.5 | 1064.9 | 982.9  | 958.6  |
| 27.5° | 1878.6 | 1891.7 | 1836.6 | 1744.0 | 1608.2 | 1476.3 | 1298.5 | 1105.0 | 950.8  | 877.3  | 858.9  |
| 30°   | 2005.9 | 1992.7 | 1877.9 | 1731.6 | 1566.9 | 1394.3 | 1191.6 | 982.3  | 851.7  | 786.7  | 776.9  |
| 32.5° | 2202.0 | 2134.5 | 1914.6 | 1702.7 | 1492.1 | 1281.5 | 1061.0 | 894.3  | 787.4  | 711.3  | 698.1  |
| 35°   | 2542.6 | 2399.5 | 1980.3 | 1677.1 | 1401.5 | 1154.8 | 948.8  | 833.3  | 730.3  | 640.4  | 623.3  |
| 37.5° | 2982.9 | 2755.2 | 2103.6 | 1633.2 | 1294.6 | 1031.5 | 877.3  | 782.1  | 687.0  | 587.3  | 568.2  |
| 40°   | 3414.6 | 3127.2 | 2269.6 | 1589.2 | 1193.5 | 947.5  | 836.6  | 761.8  | 669.9  | 567.6  | 547.2  |
| 42.5° | 3729.6 | 3425.1 | 2450.7 | 1547.2 | 1095.8 | 881.9  | 816.3  | 755.9  | 670.6  | 570.9  | 551.8  |
| 45°   | 3967.1 | 3661.3 | 2634.4 | 1489.5 | 981.6  | 831.3  | 797.2  | 750.0  | 669.9  | 574.1  | 550.5  |
| 47.5° | 4176.4 | 3816.2 | 2761.1 | 1413.3 | 873.3  | 792.0  | 774.3  | 727.7  | 653.5  | 560.4  | 540.0  |
| 50°   | 4324.0 | 3963.2 | 2843.8 | 1347.1 | 790.0  | 757.2  | 742.1  | 691.6  | 614.8  | 533.5  | 509.8  |
| 52.5° | 4428.4 | 4058.3 | 2853.6 | 1330.7 | 727.0  | 727.0  | 703.4  | 650.9  | 576.8  | 494.7  | 471.8  |
| 55°   | 4537.9 | 4112.8 | 2811.0 | 1269.7 | 660.7  | 677.1  | 662.1  | 623.3  | 551.8  | 467.8  | 453.4  |
| 57.5° | 4533.3 | 4085.2 | 2725.7 | 1020.3 | 586.6  | 603.7  | 609.6  | 599.1  | 542.6  | 474.4  | 460.6  |
| 60°   | 4563.5 | 4057.0 | 2583.9 | 709.3  | 516.4  | 542.6  | 567.6  | 567.6  | 513.8  | 433.1  | 418.6  |
| 62.5° | 4547.8 | 3992.0 | 2281.4 | 500.0  | 460.6  | 502.6  | 534.1  | 509.8  | 457.3  | 389.1  | 379.9  |
| 65°   | 4445.4 | 3807.0 | 1711.2 | 424.5  | 440.9  | 479.6  | 508.5  | 471.1  | 417.3  | 351.7  | 345.1  |
| 67.5° | 4258.4 | 3466.4 | 910.1  | 397.0  | 432.4  | 463.9  | 479.6  | 439.0  | 385.8  | 319.5  | 312.3  |
| 69°   | 4020.2 | 3054.4 | 488.2  | 393.0  | 431.1  | 450.8  | 461.9  | 419.9  | 362.2  | 303.8  | 303.8  |
| 70°   | 3773.5 | 2728.3 | 315.6  | 395.0  | 425.8  | 442.9  | 449.5  | 406.8  | 348.4  | 287.4  | 284.8  |
| 72.5° | 2956.6 | 1754.5 | 263.8  | 375.3  | 410.1  | 418.0  | 417.3  | 372.0  | 305.8  | 218.5  | 222.4  |
| 75°   | 1794.6 | 535.4  | 252.0  | 343.2  | 383.8  | 400.3  | 389.8  | 312.3  | 238.2  | 183.1  | 183.1  |
| 77.5° | 488.2  | 187.7  | 238.8  | 313.0  | 350.4  | 355.0  | 351.7  | 290.7  | 212.6  | 151.6  | 152.9  |
| 80°   | 145.7  | 145.7  | 222.4  | 261.1  | 297.2  | 318.2  | 301.8  | 255.2  | 170.6  | 80.1   | 82.7   |
| 82.5° | 84.0   | 94.5   | 186.3  | 183.7  | 240.2  | 239.5  | 239.5  | 182.4  | 115.5  | 52.5   | 42.6   |
| 85°   | 44.6   | 66.9   | 101.0  | 105.6  | 112.9  | 127.3  | 172.6  | 157.5  | 87.3   | 23.6   | 5.2    |
| 87.5° | 25.6   | 38.1   | 27.6   | 19.7   | 41.3   | 75.5   | 111.5  | 107.0  | 72.8   | 0.7    | 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)