

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: P380925

Luminaire Tested: **USSL-PA1B-730-U-T3**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P380925  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: USSL-PA1B-730-U-T3  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 8977 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 74  
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



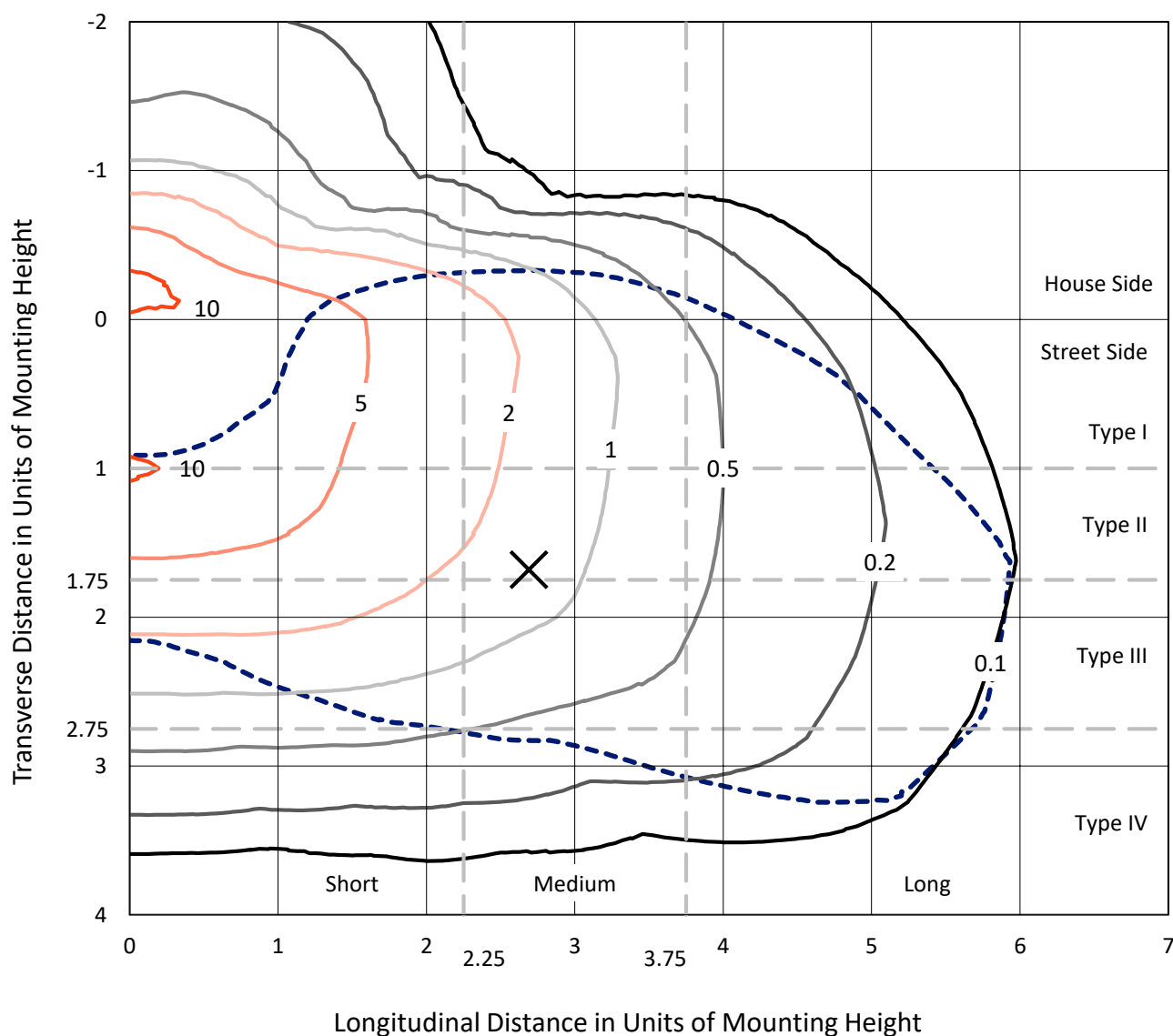
REPORT NUMBER: P380925

CATALOG NUMBER: USSL-PA1B-730-U-T3

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

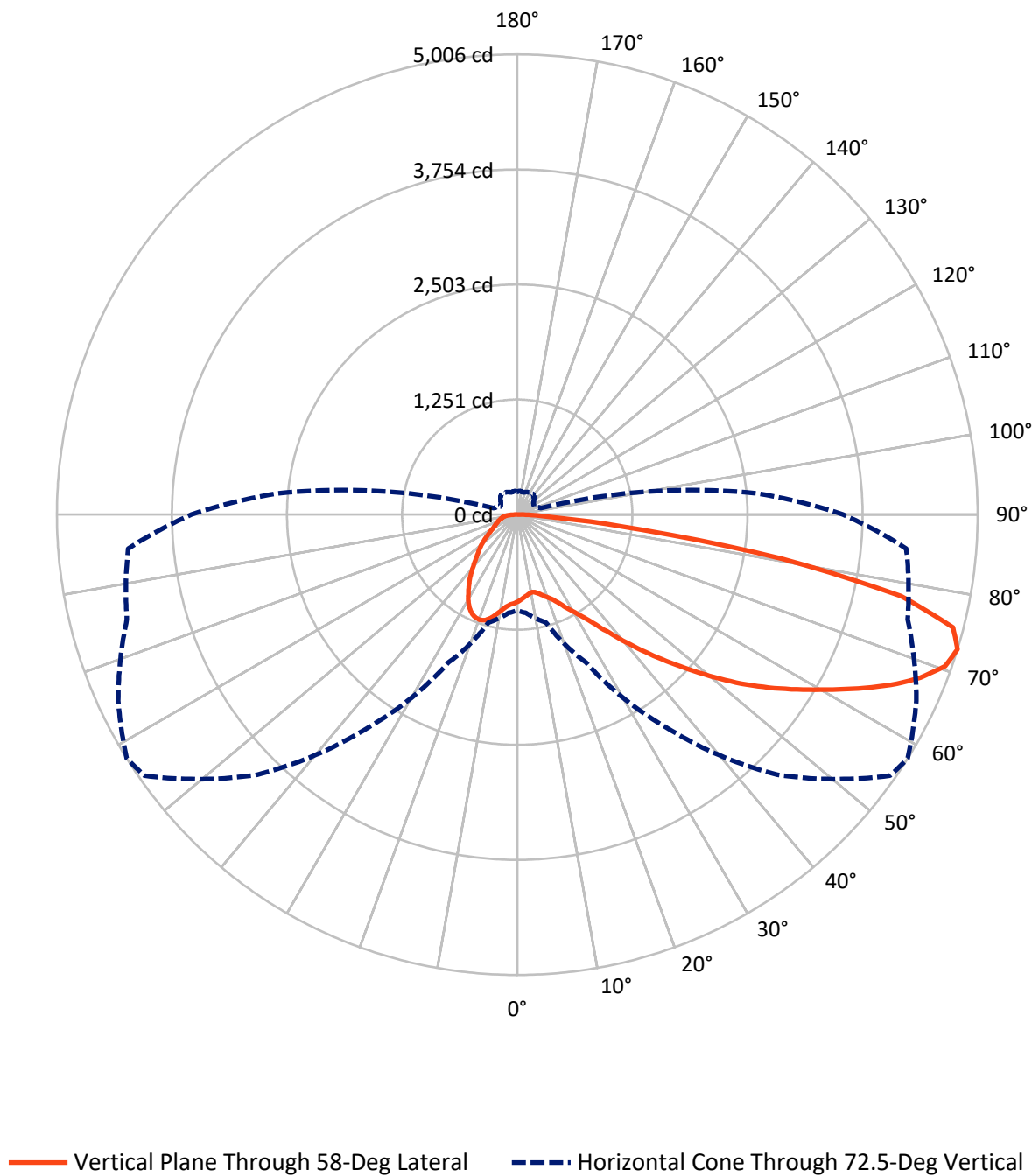


Based on 10 foot mounting height. Maximum calculated value = 11 fc  
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P380925

CATALOG NUMBER: USSL-PA1B-730-U-T3

## Luminous Intensity Polar Plot



REPORT NUMBER: P380925

CATALOG NUMBER: USSL-PA1B-730-U-T3

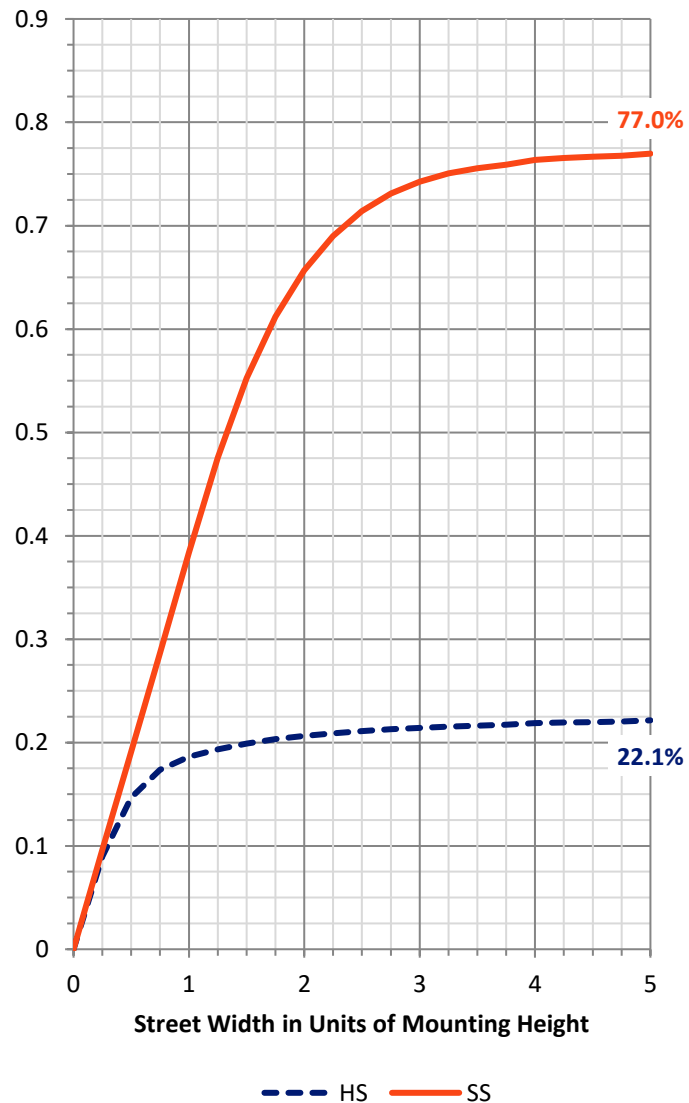
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2035.9   | 0.0    | 2035.9 |
|                    | % Fixture | 22.7     | 0.0    | 22.7   |
| <b>Street Side</b> | Lumens    | 6941.1   | 0.0    | 6941.1 |
|                    | % Fixture | 77.3     | 0.0    | 77.3   |
| <b>Total</b>       | Lumens    | 8977.0   | 0.0    | 8977.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 91.2   | 1.0       |
| 10°-20°   | 289.7  | 3.2       |
| 20°-30°   | 518.9  | 5.8       |
| 30°-40°   | 780.6  | 8.7       |
| 40°-50°   | 1264.0 | 14.1      |
| 50°-60°   | 1902.8 | 21.2      |
| 60°-70°   | 2239.4 | 24.9      |
| 70°-80°   | 1587.9 | 17.7      |
| 80°-90°   | 302.6  | 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°    | 8977.0 | 100.0     |
| 0°-180°   | 8977.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P380925

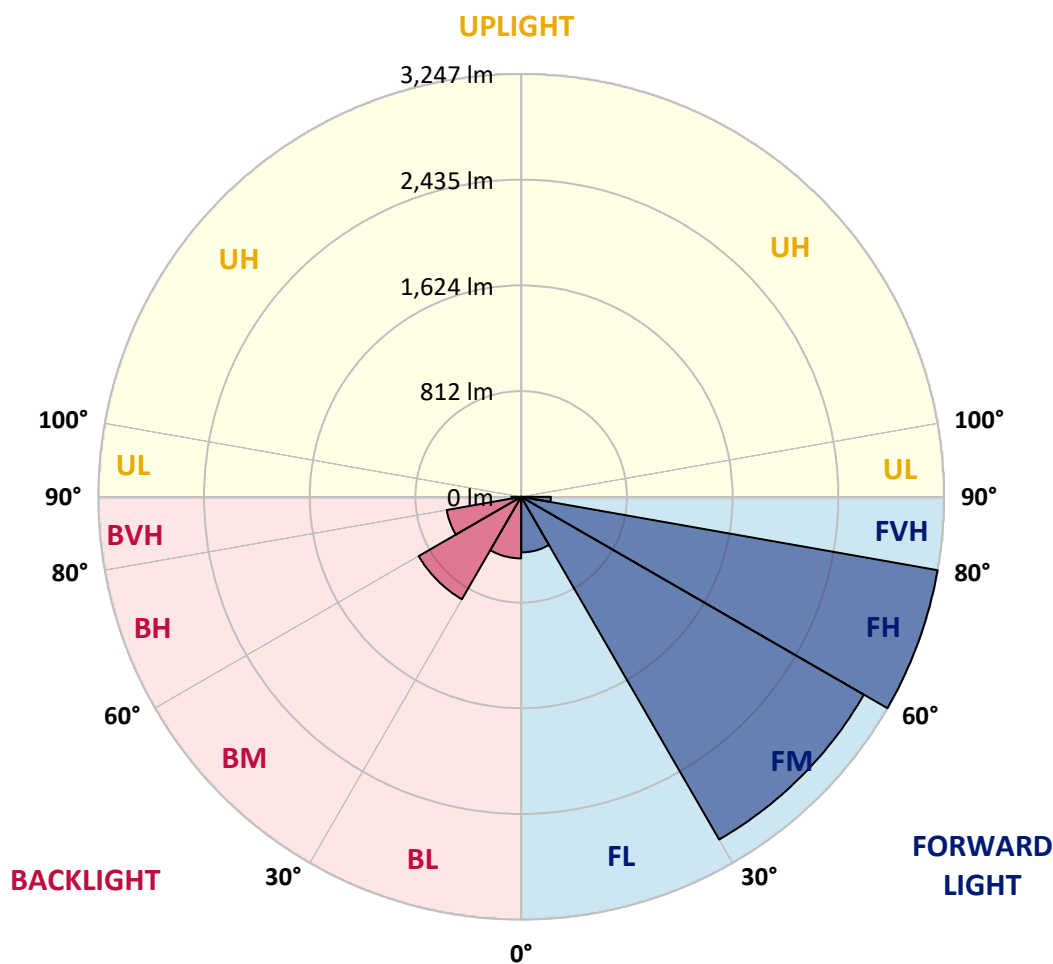
CATALOG NUMBER: USSL-PA1B-730-U-T3

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 426.9  | 4.8       |                         |      |         |
| FM   | (30°-60°)   | 3039.0 | 33.9      |                         |      |         |
| FH   | (60°-80°)   | 3247.0 | 36.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 228.2  | 2.5       |                         |      | G3/500  |
| BL   | (0°-30°)    | 472.9  | 5.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 908.4  | 10.1      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 580.2  | 6.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 74.3   | 0.8       |                         |      | 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 Medium





REPORT NUMBER: P380925

CATALOG NUMBER: USSL-PA1B-730-U-T3

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 58°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 946.9  | 946.9  | 946.9  | 946.9  | 946.9  | 946.9  | 946.9  | 946.9  | 946.9  | 946.9  | 946.9  |
| 2.5°  | 911.3  | 906.6  | 907.8  | 907.8  | 912.5  | 914.9  | 916.1  | 919.6  | 922.0  | 927.9  | 936.2  |
| 5°    | 868.7  | 865.1  | 866.3  | 867.5  | 875.8  | 884.1  | 891.2  | 895.9  | 903.0  | 912.5  | 924.4  |
| 7.5°  | 837.9  | 835.5  | 836.7  | 839.0  | 846.2  | 855.6  | 867.5  | 874.6  | 885.3  | 903.0  | 923.2  |
| 10°   | 815.3  | 815.3  | 816.5  | 821.3  | 828.4  | 840.2  | 849.7  | 858.0  | 879.3  | 911.3  | 942.1  |
| 12.5° | 797.6  | 797.6  | 801.1  | 810.6  | 822.4  | 834.3  | 856.8  | 866.3  | 894.7  | 938.6  | 975.3  |
| 15°   | 796.4  | 797.6  | 798.7  | 807.0  | 820.1  | 846.2  | 879.3  | 893.6  | 927.9  | 980.1  | 1022.7 |
| 17.5° | 815.3  | 816.5  | 811.8  | 814.2  | 829.6  | 866.3  | 910.1  | 926.7  | 970.6  | 1027.5 | 1071.3 |
| 20°   | 873.4  | 873.4  | 859.2  | 846.2  | 856.8  | 897.1  | 946.9  | 963.5  | 1012.1 | 1074.9 | 1118.7 |
| 22.5° | 991.9  | 997.8  | 964.7  | 936.2  | 919.6  | 942.1  | 987.2  | 1005.0 | 1059.5 | 1127.0 | 1170.9 |
| 25°   | 1135.3 | 1141.2 | 1096.2 | 1055.9 | 1025.1 | 1021.5 | 1051.2 | 1070.1 | 1115.2 | 1185.1 | 1221.8 |
| 27.5° | 1274.0 | 1263.3 | 1221.8 | 1183.9 | 1144.8 | 1112.8 | 1135.3 | 1151.9 | 1204.0 | 1257.4 | 1279.9 |
| 30°   | 1383.0 | 1374.7 | 1334.4 | 1307.1 | 1270.4 | 1228.9 | 1215.9 | 1233.7 | 1276.3 | 1326.1 | 1338.0 |
| 32.5° | 1503.9 | 1497.9 | 1457.7 | 1422.1 | 1391.3 | 1352.2 | 1323.7 | 1332.0 | 1355.7 | 1391.3 | 1398.4 |
| 35°   | 1657.9 | 1671.0 | 1628.3 | 1556.0 | 1521.6 | 1483.7 | 1463.6 | 1465.9 | 1483.7 | 1506.2 | 1494.4 |
| 37.5° | 1820.3 | 1835.7 | 1838.1 | 1724.3 | 1678.1 | 1643.7 | 1622.4 | 1630.7 | 1652.0 | 1667.4 | 1630.7 |
| 40°   | 2121.3 | 2105.9 | 2044.3 | 1960.1 | 1889.0 | 1855.8 | 1826.2 | 1825.0 | 1840.4 | 1867.7 | 1801.3 |
| 42.5° | 2520.7 | 2506.5 | 2382.0 | 2273.0 | 2160.4 | 2122.5 | 2064.4 | 2039.5 | 2046.6 | 2081.0 | 1988.6 |
| 45°   | 2903.5 | 2897.5 | 2798.0 | 2671.2 | 2536.1 | 2462.6 | 2329.9 | 2269.4 | 2263.5 | 2290.8 | 2180.6 |
| 47.5° | 3243.6 | 3217.5 | 3145.2 | 3046.9 | 3032.6 | 2840.6 | 2596.5 | 2514.7 | 2486.3 | 2501.7 | 2378.5 |
| 50°   | 3607.4 | 3518.5 | 3419.0 | 3358.5 | 3461.6 | 3282.7 | 2865.5 | 2780.2 | 2710.3 | 2721.0 | 2593.0 |
| 52.5° | 3800.6 | 3651.2 | 3586.1 | 3603.8 | 3742.5 | 3673.8 | 3158.3 | 3054.0 | 2941.4 | 2956.8 | 2806.3 |
| 55°   | 3634.7 | 3633.5 | 3661.9 | 3772.1 | 3965.3 | 3885.9 | 3436.7 | 3319.4 | 3196.2 | 3199.7 | 3051.6 |
| 57.5° | 3407.1 | 3453.3 | 3600.3 | 3843.2 | 4241.4 | 4108.7 | 3710.5 | 3586.1 | 3473.5 | 3455.7 | 3330.1 |
| 60°   | 3199.7 | 3250.7 | 3464.0 | 3831.4 | 4337.4 | 4312.5 | 3971.2 | 3862.2 | 3770.9 | 3718.8 | 3622.8 |
| 62.5° | 2884.5 | 2922.4 | 3224.6 | 3755.5 | 4256.8 | 4459.5 | 4235.5 | 4160.8 | 4092.1 | 3984.3 | 3938.0 |
| 65°   | 2513.6 | 2526.6 | 2845.4 | 3505.5 | 4156.1 | 4516.4 | 4498.6 | 4465.4 | 4399.0 | 4240.2 | 4249.7 |
| 67.5° | 2111.8 | 2137.9 | 2417.6 | 3106.1 | 3935.7 | 4490.3 | 4702.4 | 4729.7 | 4651.5 | 4413.3 | 4448.8 |
| 70°   | 1684.0 | 1716.0 | 1928.1 | 2553.9 | 3561.2 | 4377.7 | 4890.8 | 4934.7 | 4784.2 | 4470.1 | 4485.5 |
| 72.5° | 1041.7 | 1072.5 | 1214.7 | 1774.1 | 2822.9 | 3999.7 | 4948.9 | 5005.8 | 4787.7 | 4394.3 | 4246.2 |
| 75°   | 360.3  | 363.8  | 475.2  | 850.9  | 1675.7 | 3019.6 | 4759.3 | 4893.2 | 4637.2 | 4118.2 | 3695.1 |
| 77.5° | 164.7  | 170.7  | 210.9  | 350.8  | 743.0  | 1629.5 | 3929.7 | 4265.1 | 4179.8 | 3686.8 | 2844.2 |
| 80°   | 113.8  | 116.1  | 145.8  | 209.8  | 429.0  | 573.6  | 2480.4 | 2917.7 | 3067.0 | 2854.9 | 1822.7 |
| 82.5° | 85.3   | 87.7   | 112.6  | 142.2  | 309.3  | 278.5  | 944.5  | 1355.7 | 1685.2 | 1654.4 | 762.0  |
| 85°   | 81.8   | 80.6   | 87.7   | 94.8   | 206.2  | 165.9  | 305.8  | 419.5  | 657.7  | 562.9  | 192.0  |
| 87.5° | 35.6   | 39.1   | 90.1   | 53.3   | 107.8  | 77.0   | 132.7  | 155.2  | 200.3  | 174.2  | 68.7   |
| 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: P380925

CATALOG NUMBER: USSL-PA1B-730-U-T3

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 946.9  | 946.9  | 946.9  | 946.9  | 946.9  | 946.9  | 946.9  | 946.9  | 946.9  | 946.9  | 946.9  |
| 2.5°  | 939.8  | 942.1  | 949.3  | 959.9  | 965.8  | 977.7  | 986.0  | 990.7  | 994.3  | 995.5  | 995.5  |
| 5°    | 931.5  | 936.2  | 951.6  | 969.4  | 986.0  | 1010.9 | 1033.4 | 1046.4 | 1055.9 | 1059.5 | 1060.7 |
| 7.5°  | 933.8  | 945.7  | 968.2  | 994.3  | 1015.6 | 1047.6 | 1074.9 | 1100.9 | 1122.3 | 1130.6 | 1130.6 |
| 10°   | 956.4  | 973.0  | 1003.8 | 1038.1 | 1065.4 | 1098.6 | 1127.0 | 1149.5 | 1174.4 | 1188.6 | 1191.0 |
| 12.5° | 990.7  | 1010.9 | 1051.2 | 1089.1 | 1119.9 | 1146.0 | 1172.0 | 1188.6 | 1200.5 | 1211.2 | 1213.5 |
| 15°   | 1039.3 | 1064.2 | 1104.5 | 1143.6 | 1170.9 | 1187.5 | 1194.6 | 1194.6 | 1193.4 | 1194.6 | 1196.9 |
| 17.5° | 1087.9 | 1111.6 | 1151.9 | 1191.0 | 1204.0 | 1194.6 | 1186.3 | 1183.9 | 1182.7 | 1180.3 | 1181.5 |
| 20°   | 1135.3 | 1157.8 | 1192.2 | 1221.8 | 1211.2 | 1178.0 | 1167.3 | 1166.1 | 1162.6 | 1160.2 | 1157.8 |
| 22.5° | 1182.7 | 1199.3 | 1227.7 | 1238.4 | 1195.8 | 1148.3 | 1135.3 | 1128.2 | 1123.5 | 1117.5 | 1111.6 |
| 25°   | 1237.2 | 1242.0 | 1263.3 | 1246.7 | 1157.8 | 1093.8 | 1074.9 | 1064.2 | 1059.5 | 1053.5 | 1048.8 |
| 27.5° | 1288.2 | 1288.2 | 1291.7 | 1233.7 | 1102.1 | 1021.5 | 993.1  | 974.1  | 973.0  | 971.8  | 970.6  |
| 30°   | 1334.4 | 1328.5 | 1316.6 | 1194.6 | 1029.8 | 932.7  | 890.0  | 871.0  | 878.1  | 884.1  | 885.3  |
| 32.5° | 1388.9 | 1377.1 | 1343.9 | 1141.2 | 943.3  | 833.1  | 781.0  | 772.7  | 781.0  | 788.1  | 783.3  |
| 35°   | 1474.2 | 1452.9 | 1372.3 | 1079.6 | 860.4  | 741.9  | 692.1  | 680.2  | 677.9  | 676.7  | 667.2  |
| 37.5° | 1596.3 | 1559.6 | 1394.8 | 1013.2 | 778.6  | 661.3  | 624.5  | 599.7  | 577.1  | 553.4  | 549.9  |
| 40°   | 1745.6 | 1682.8 | 1410.3 | 937.4  | 692.1  | 593.7  | 554.6  | 522.6  | 484.7  | 443.2  | 438.5  |
| 42.5° | 1909.2 | 1815.5 | 1417.4 | 853.3  | 616.2  | 538.0  | 489.4  | 449.1  | 406.5  | 374.5  | 368.6  |
| 45°   | 2085.7 | 1958.9 | 1411.4 | 772.7  | 554.6  | 490.6  | 436.1  | 392.3  | 357.9  | 335.4  | 330.6  |
| 47.5° | 2257.6 | 2123.7 | 1394.8 | 708.7  | 507.2  | 450.3  | 394.6  | 354.3  | 328.3  | 303.4  | 297.5  |
| 50°   | 2478.0 | 2281.3 | 1374.7 | 658.9  | 455.1  | 410.0  | 368.6  | 325.9  | 296.3  | 284.4  | 282.1  |
| 52.5° | 2722.1 | 2438.9 | 1351.0 | 596.1  | 404.1  | 378.0  | 352.0  | 314.0  | 304.6  | 282.1  | 278.5  |
| 55°   | 2986.4 | 2626.1 | 1346.3 | 516.7  | 359.1  | 355.5  | 335.4  | 324.7  | 327.1  | 282.1  | 276.1  |
| 57.5° | 3264.9 | 2826.4 | 1356.9 | 437.3  | 322.3  | 335.4  | 342.5  | 334.2  | 330.6  | 288.0  | 276.1  |
| 60°   | 3555.3 | 3019.6 | 1324.9 | 363.8  | 293.9  | 318.8  | 350.8  | 329.5  | 303.4  | 285.6  | 277.3  |
| 62.5° | 3837.3 | 3182.0 | 1186.3 | 311.7  | 272.6  | 314.0  | 346.0  | 311.7  | 282.1  | 282.1  | 278.5  |
| 65°   | 4042.3 | 3254.2 | 927.9  | 273.8  | 258.3  | 308.1  | 337.7  | 299.8  | 276.1  | 284.4  | 279.7  |
| 67.5° | 4066.0 | 3179.6 | 623.4  | 244.1  | 246.5  | 297.5  | 318.8  | 289.2  | 270.2  | 291.5  | 284.4  |
| 70°   | 3920.3 | 2985.2 | 381.6  | 221.6  | 231.1  | 278.5  | 302.2  | 278.5  | 261.9  | 285.6  | 274.9  |
| 72.5° | 3542.2 | 2622.6 | 269.0  | 202.6  | 214.5  | 260.7  | 286.8  | 269.0  | 250.1  | 258.3  | 247.7  |
| 75°   | 2905.8 | 2032.4 | 213.3  | 184.9  | 197.9  | 244.1  | 273.8  | 254.8  | 235.8  | 232.3  | 225.2  |
| 77.5° | 2058.5 | 1302.4 | 171.8  | 170.7  | 180.1  | 224.0  | 256.0  | 238.2  | 219.2  | 212.1  | 207.4  |
| 80°   | 1183.9 | 638.8  | 148.1  | 154.1  | 163.5  | 203.8  | 234.6  | 219.2  | 201.5  | 190.8  | 183.7  |
| 82.5° | 452.7  | 222.8  | 130.4  | 133.9  | 144.6  | 182.5  | 213.3  | 200.3  | 182.5  | 192.0  | 161.2  |
| 85°   | 147.0  | 122.1  | 106.7  | 110.2  | 120.9  | 151.7  | 188.4  | 177.8  | 157.6  | 139.8  | 129.2  |
| 87.5° | 65.2   | 66.4   | 56.9   | 62.8   | 75.8   | 100.7  | 137.5  | 130.4  | 115.0  | 96.0   | 92.4   |
| 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)