

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: P381244

Luminaire Tested: **USSL-PA1A-730-U-T3-HSS**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P381244  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: USSL-PA1A-730-U-T3-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 5093 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 54  
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

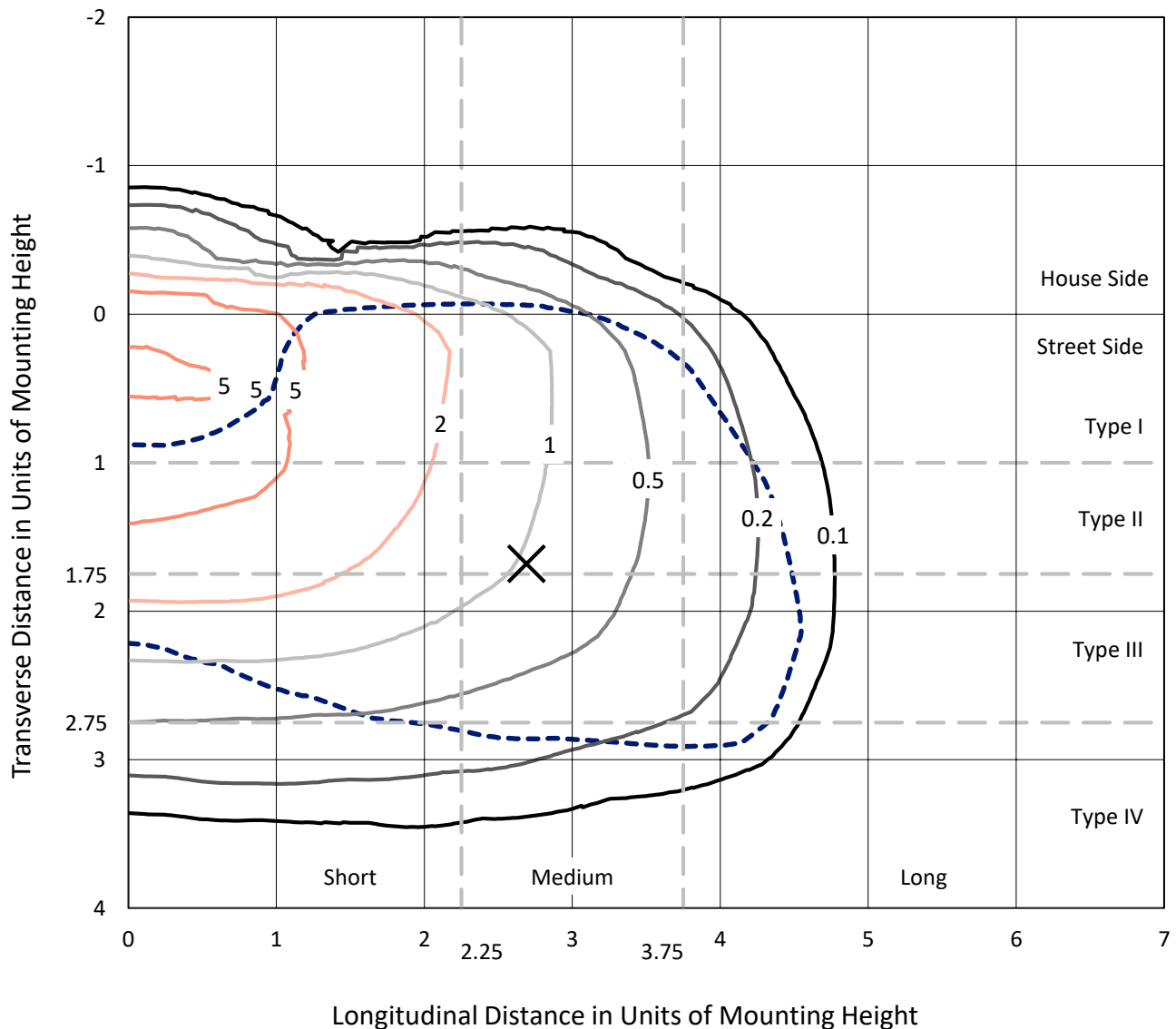


REPORT NUMBER: P381244

CATALOG NUMBER: USSL-PA1A-730-U-T3-HSS

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

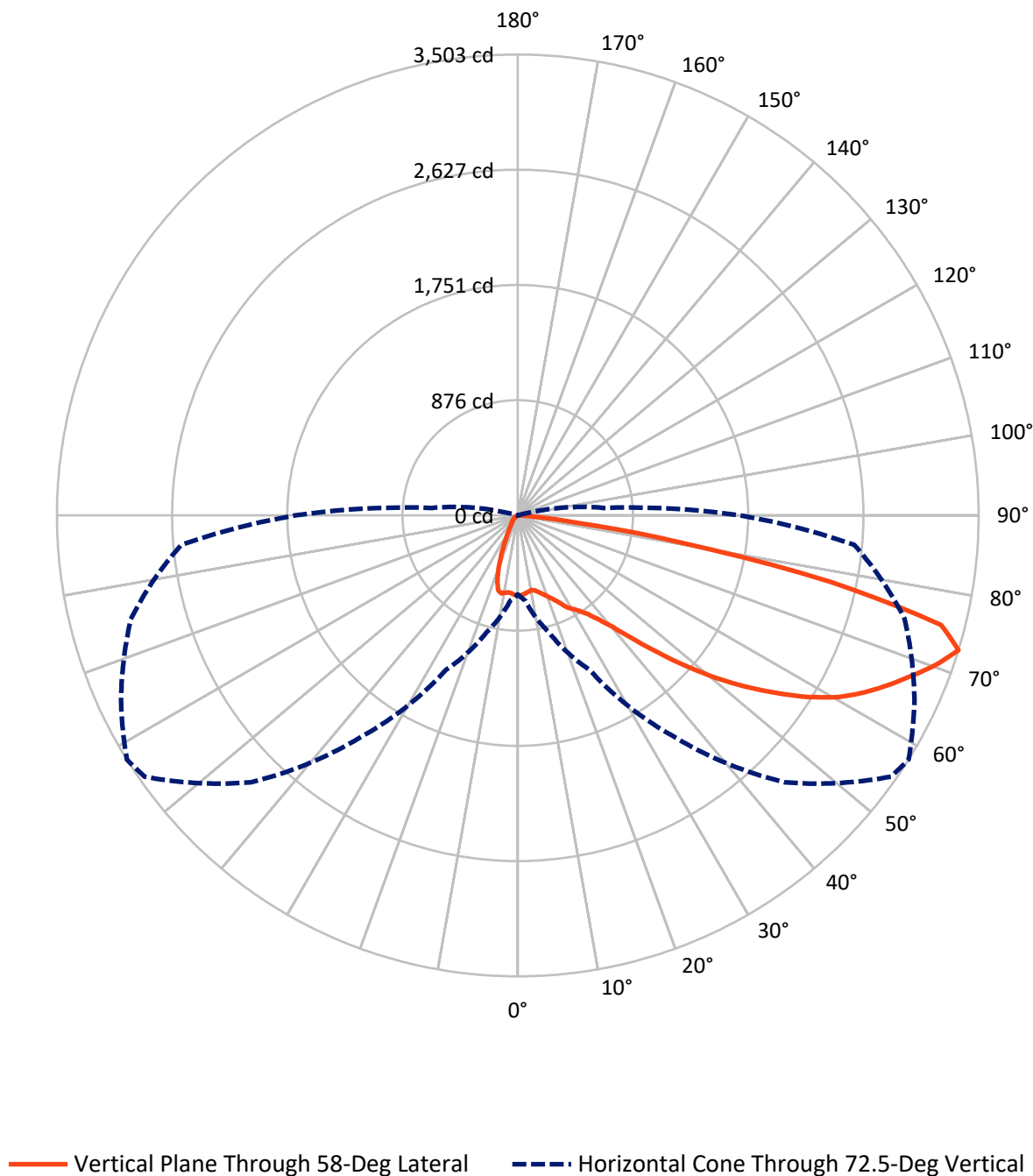


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc  
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P381244

CATALOG NUMBER: USSL-PA1A-730-U-T3-HSS

## Luminous Intensity Polar Plot



REPORT NUMBER: P381244

CATALOG NUMBER: USSL-PA1A-730-U-T3-HSS

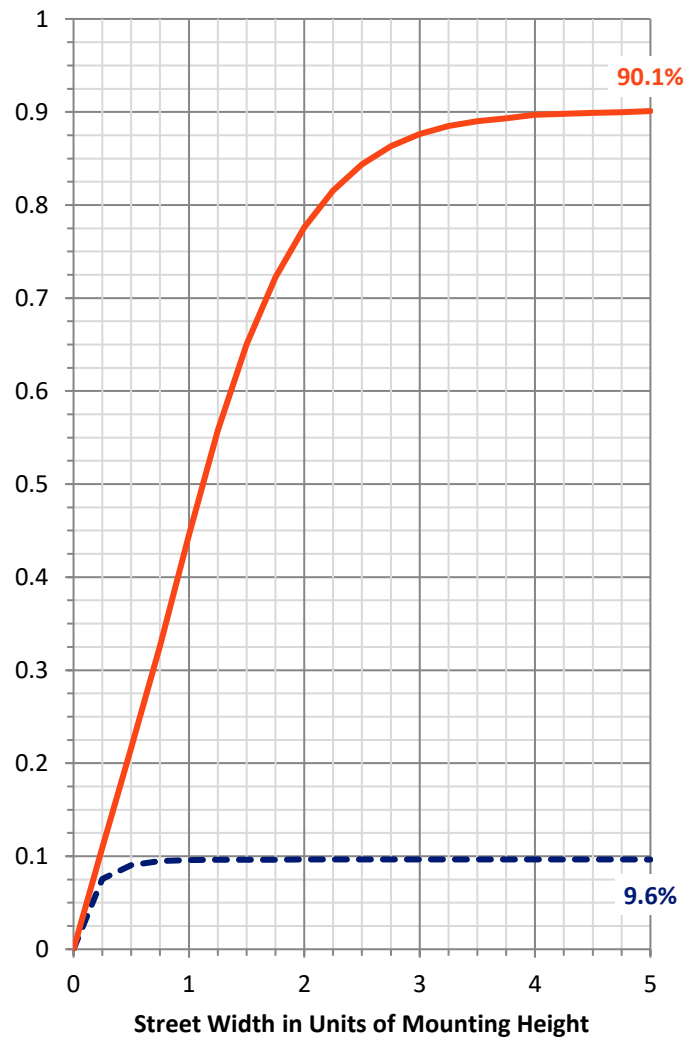
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 495.3    | 0.0    | 495.3  |
|                    | % Fixture | 9.7      | 0.0    | 9.7    |
| <b>Street Side</b> | Lumens    | 4597.7   | 0.0    | 4597.7 |
|                    | % Fixture | 90.3     | 0.0    | 90.3   |
| <b>Total</b>       | Lumens    | 5093.0   | 0.0    | 5093.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 56.1   | 1.1       |
| 10°-20°   | 146.1  | 2.9       |
| 20°-30°   | 229.5  | 4.5       |
| 30°-40°   | 395.8  | 7.8       |
| 40°-50°   | 753.0  | 14.8      |
| 50°-60°   | 1192.5 | 23.4      |
| 60°-70°   | 1391.5 | 27.3      |
| 70°-80°   | 871.5  | 17.1      |
| 80°-90°   | 57.2   | 1.1       |
| 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°    | 5093.0 | 100.0     |
| 0°-180°   | 5093.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P381244

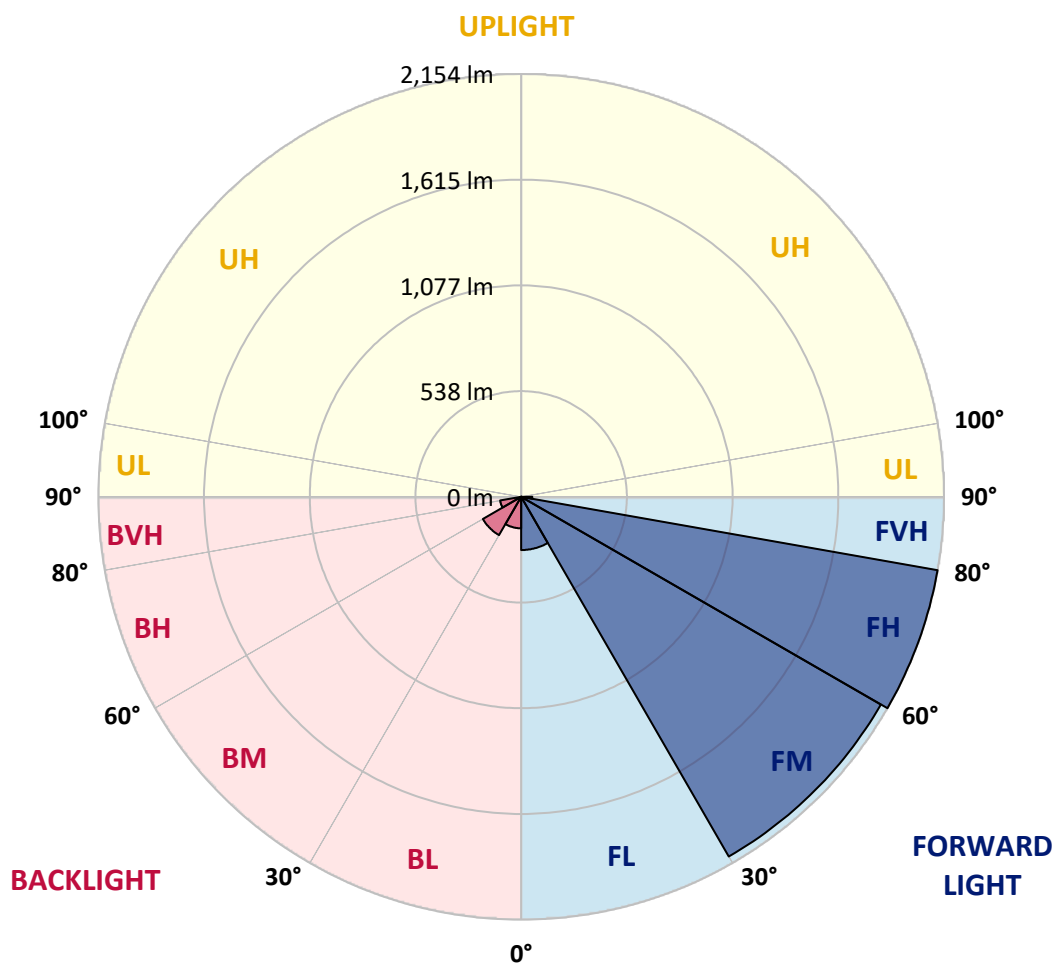
CATALOG NUMBER: USSL-PA1A-730-U-T3-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 271.3  | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 2115.8 | 41.5      |                         |      |         |
| FH   | (60°-80°)   | 2154.0 | 42.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 56.7   | 1.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 160.4  | 3.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 225.3  | 4.4       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 109.0  | 2.1       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.6    | 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-G2**

Type IV Medium



REPORT NUMBER: P381244

CATALOG NUMBER: USSL-PA1A-730-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 58°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 611.1  | 611.1  | 611.1  | 611.1  | 611.1  | 611.1  | 611.1  | 611.1  | 611.1  | 611.1  | 611.1  |
| 2.5°  | 608.4  | 605.7  | 604.8  | 603.8  | 604.8  | 605.7  | 602.9  | 605.7  | 603.8  | 604.8  | 606.6  |
| 5°    | 586.5  | 583.8  | 582.9  | 583.8  | 586.5  | 591.1  | 592.9  | 595.6  | 595.6  | 598.4  | 599.3  |
| 7.5°  | 561.9  | 560.1  | 559.2  | 561.0  | 566.5  | 576.5  | 582.0  | 585.6  | 589.3  | 594.7  | 600.2  |
| 10°   | 548.3  | 547.4  | 546.5  | 549.2  | 554.7  | 563.8  | 571.1  | 576.5  | 590.2  | 605.7  | 615.7  |
| 12.5° | 539.2  | 539.2  | 541.0  | 546.5  | 553.8  | 561.0  | 578.3  | 585.6  | 606.6  | 630.3  | 643.9  |
| 15°   | 531.9  | 531.9  | 534.6  | 544.6  | 554.7  | 572.0  | 597.5  | 605.7  | 630.3  | 659.4  | 677.6  |
| 17.5° | 526.4  | 528.2  | 530.1  | 540.1  | 559.2  | 588.4  | 618.4  | 630.3  | 660.3  | 692.2  | 712.2  |
| 20°   | 527.3  | 529.2  | 530.1  | 540.1  | 567.4  | 607.5  | 645.7  | 659.4  | 694.0  | 727.7  | 747.7  |
| 22.5° | 532.8  | 535.5  | 536.4  | 550.1  | 582.0  | 627.5  | 676.7  | 692.2  | 729.5  | 765.0  | 780.5  |
| 25°   | 555.6  | 557.4  | 551.9  | 563.8  | 602.9  | 658.5  | 716.8  | 733.2  | 770.5  | 803.3  | 816.1  |
| 27.5° | 633.0  | 634.8  | 604.8  | 591.1  | 619.3  | 684.0  | 766.0  | 788.7  | 835.2  | 857.0  | 858.9  |
| 30°   | 800.6  | 802.4  | 743.2  | 678.5  | 658.5  | 705.8  | 793.3  | 825.2  | 885.3  | 909.9  | 898.9  |
| 32.5° | 1016.4 | 1014.6 | 933.5  | 837.9  | 751.4  | 744.1  | 832.4  | 866.1  | 931.7  | 955.4  | 947.2  |
| 35°   | 1233.2 | 1235.9 | 1166.7 | 1022.8 | 898.9  | 816.1  | 882.5  | 921.7  | 1000.9 | 1034.6 | 1020.1 |
| 37.5° | 1381.6 | 1399.9 | 1369.8 | 1214.1 | 1080.2 | 949.0  | 963.6  | 1005.5 | 1104.8 | 1150.3 | 1119.3 |
| 40°   | 1591.1 | 1586.6 | 1513.7 | 1398.9 | 1280.5 | 1145.8 | 1094.7 | 1114.8 | 1228.6 | 1289.7 | 1241.4 |
| 42.5° | 1872.6 | 1863.4 | 1739.6 | 1627.6 | 1495.5 | 1385.3 | 1281.5 | 1277.8 | 1370.7 | 1441.8 | 1371.6 |
| 45°   | 2127.6 | 2113.9 | 2029.2 | 1920.8 | 1776.0 | 1649.4 | 1509.2 | 1477.3 | 1541.9 | 1602.1 | 1520.1 |
| 47.5° | 2330.7 | 2307.9 | 2247.8 | 2190.4 | 2154.9 | 1958.2 | 1747.8 | 1699.5 | 1732.3 | 1776.9 | 1661.3 |
| 50°   | 2571.1 | 2508.3 | 2420.8 | 2386.2 | 2460.0 | 2307.9 | 1977.3 | 1930.8 | 1929.0 | 1954.5 | 1807.0 |
| 52.5° | 2680.4 | 2566.6 | 2517.4 | 2546.5 | 2676.8 | 2633.0 | 2225.0 | 2158.5 | 2132.1 | 2134.9 | 1942.7 |
| 55°   | 2548.3 | 2535.6 | 2562.0 | 2653.1 | 2823.4 | 2797.9 | 2462.7 | 2380.8 | 2341.6 | 2292.4 | 2072.9 |
| 57.5° | 2398.1 | 2437.2 | 2542.0 | 2715.9 | 3009.2 | 2970.0 | 2696.8 | 2603.9 | 2532.0 | 2419.0 | 2217.7 |
| 60°   | 2259.6 | 2299.7 | 2472.7 | 2730.5 | 3111.2 | 3135.8 | 2891.7 | 2803.4 | 2696.8 | 2548.3 | 2377.1 |
| 62.5° | 2049.2 | 2080.2 | 2323.4 | 2709.6 | 3066.6 | 3232.3 | 3027.4 | 2960.9 | 2861.7 | 2671.3 | 2560.2 |
| 65°   | 1812.4 | 1832.5 | 2072.9 | 2542.0 | 2979.1 | 3221.4 | 3139.4 | 3102.1 | 3005.6 | 2799.7 | 2741.4 |
| 67.5° | 1552.9 | 1576.5 | 1776.9 | 2240.5 | 2807.9 | 3170.4 | 3245.1 | 3241.4 | 3131.2 | 2941.8 | 2872.6 |
| 70°   | 1254.1 | 1256.0 | 1421.7 | 1858.0 | 2509.2 | 3068.4 | 3376.2 | 3384.4 | 3251.5 | 3048.4 | 2878.0 |
| 72.5° | 600.2  | 649.4  | 921.7  | 1296.9 | 2039.2 | 2868.0 | 3461.8 | 3502.8 | 3327.1 | 3044.7 | 2567.5 |
| 75°   | 137.5  | 142.1  | 268.7  | 616.6  | 1195.8 | 2201.3 | 3247.8 | 3324.3 | 3143.1 | 2633.0 | 1808.8 |
| 77.5° | 50.1   | 52.8   | 75.6   | 180.3  | 459.9  | 1137.6 | 2324.3 | 2436.3 | 2323.4 | 1702.2 | 855.2  |
| 80°   | 33.7   | 32.8   | 39.2   | 80.1   | 211.3  | 322.4  | 1188.6 | 1255.0 | 1145.8 | 581.1  | 204.9  |
| 82.5° | 17.3   | 18.2   | 27.3   | 44.6   | 142.1  | 112.0  | 397.1  | 431.7  | 355.2  | 116.6  | 38.3   |
| 85°   | 8.2    | 8.2    | 15.5   | 28.2   | 60.1   | 39.2   | 88.3   | 106.6  | 95.6   | 51.0   | 12.8   |
| 87.5° | 8.2    | 8.2    | 14.6   | 18.2   | 31.0   | 16.4   | 21.9   | 27.3   | 25.5   | 27.3   | 4.6    |
| 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: P381244

CATALOG NUMBER: USSL-PA1A-730-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 611.1  | 611.1  | 611.1 | 611.1 | 611.1 | 611.1 | 611.1 | 611.1 | 611.1 | 611.1 | 611.1 |
| 2.5°  | 606.6  | 605.7  | 604.8 | 606.6 | 605.7 | 607.5 | 607.5 | 609.3 | 609.3 | 607.5 | 606.6 |
| 5°    | 598.4  | 596.6  | 594.7 | 594.7 | 593.8 | 595.6 | 601.1 | 605.7 | 606.6 | 603.8 | 602.9 |
| 7.5°  | 599.3  | 599.3  | 597.5 | 593.8 | 587.4 | 587.4 | 587.4 | 592.9 | 595.6 | 593.8 | 592.9 |
| 10°   | 615.7  | 616.6  | 612.0 | 603.8 | 592.9 | 582.9 | 563.8 | 535.5 | 509.1 | 501.8 | 499.1 |
| 12.5° | 643.9  | 644.8  | 635.7 | 621.1 | 598.4 | 539.2 | 466.3 | 398.9 | 347.0 | 332.4 | 329.7 |
| 15°   | 677.6  | 678.5  | 662.1 | 638.5 | 569.2 | 431.7 | 323.3 | 246.8 | 201.3 | 190.4 | 189.4 |
| 17.5° | 712.2  | 710.4  | 685.8 | 640.3 | 482.7 | 306.0 | 196.7 | 157.6 | 145.7 | 143.0 | 143.9 |
| 20°   | 745.9  | 740.5  | 706.8 | 606.6 | 371.6 | 200.4 | 143.9 | 134.8 | 132.1 | 130.2 | 130.2 |
| 22.5° | 776.9  | 766.0  | 724.1 | 540.1 | 260.5 | 143.9 | 128.4 | 126.6 | 123.0 | 120.2 | 119.3 |
| 25°   | 807.9  | 792.4  | 735.0 | 453.6 | 174.9 | 125.7 | 121.1 | 117.5 | 112.9 | 109.3 | 108.4 |
| 27.5° | 845.2  | 823.3  | 729.5 | 344.3 | 131.2 | 116.6 | 112.9 | 107.5 | 101.1 | 95.6  | 93.8  |
| 30°   | 880.7  | 856.1  | 698.6 | 237.7 | 112.0 | 107.5 | 102.0 | 93.8  | 85.6  | 79.2  | 77.4  |
| 32.5° | 925.3  | 897.1  | 643.0 | 155.7 | 97.5  | 93.8  | 88.3  | 78.3  | 67.4  | 60.1  | 58.3  |
| 35°   | 989.1  | 957.2  | 572.0 | 109.3 | 85.6  | 79.2  | 72.0  | 61.0  | 49.2  | 43.7  | 42.8  |
| 37.5° | 1078.4 | 1035.5 | 482.7 | 88.3  | 75.6  | 66.5  | 55.6  | 44.6  | 36.4  | 31.9  | 31.0  |
| 40°   | 1187.6 | 1122.1 | 383.4 | 78.3  | 67.4  | 55.6  | 41.9  | 31.9  | 26.4  | 22.8  | 22.8  |
| 42.5° | 1306.0 | 1203.1 | 282.3 | 72.0  | 59.2  | 45.5  | 31.0  | 22.8  | 19.1  | 17.3  | 16.4  |
| 45°   | 1428.1 | 1275.1 | 190.4 | 66.5  | 51.9  | 34.6  | 21.9  | 15.5  | 12.8  | 12.8  | 11.8  |
| 47.5° | 1554.7 | 1323.4 | 123.0 | 60.1  | 43.7  | 25.5  | 14.6  | 10.9  | 9.1   | 9.1   | 9.1   |
| 50°   | 1680.4 | 1348.9 | 87.4  | 54.6  | 35.5  | 17.3  | 10.9  | 8.2   | 7.3   | 7.3   | 7.3   |
| 52.5° | 1771.5 | 1332.5 | 70.1  | 47.4  | 27.3  | 12.8  | 8.2   | 6.4   | 5.5   | 5.5   | 5.5   |
| 55°   | 1850.7 | 1304.2 | 61.0  | 41.0  | 20.0  | 9.1   | 6.4   | 5.5   | 4.6   | 4.6   | 4.6   |
| 57.5° | 1931.8 | 1267.8 | 54.6  | 34.6  | 14.6  | 6.4   | 4.6   | 3.6   | 3.6   | 3.6   | 3.6   |
| 60°   | 2005.5 | 1205.9 | 47.4  | 27.3  | 10.0  | 4.6   | 3.6   | 2.7   | 2.7   | 2.7   | 2.7   |
| 62.5° | 2077.5 | 1153.0 | 41.0  | 20.9  | 7.3   | 3.6   | 1.8   | 1.8   | 0.9   | 0.9   | 0.9   |
| 65°   | 2118.5 | 1082.0 | 32.8  | 13.7  | 4.6   | 2.7   | 0.9   | 0.9   | 0.0   | 0.0   | 0.0   |
| 67.5° | 2105.7 | 997.3  | 22.8  | 8.2   | 2.7   | 1.8   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   |
| 70°   | 2017.4 | 883.5  | 13.7  | 4.6   | 2.7   | 1.8   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 1689.5 | 653.9  | 8.2   | 3.6   | 1.8   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 1128.4 | 300.6  | 4.6   | 2.7   | 0.9   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 516.4  | 90.2   | 2.7   | 1.8   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 103.8  | 23.7   | 1.8   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 21.9   | 4.6    | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 4.6    | 1.8    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 1.8    | 0.9    | 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)