

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: P639408

Luminaire Tested: **USSL-M-PA6D-730-U-T4W-HSS**

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-08
Report Number: P639408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-M-PA6D-730-U-T4W-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K LIGHT ENGINES AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44589 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

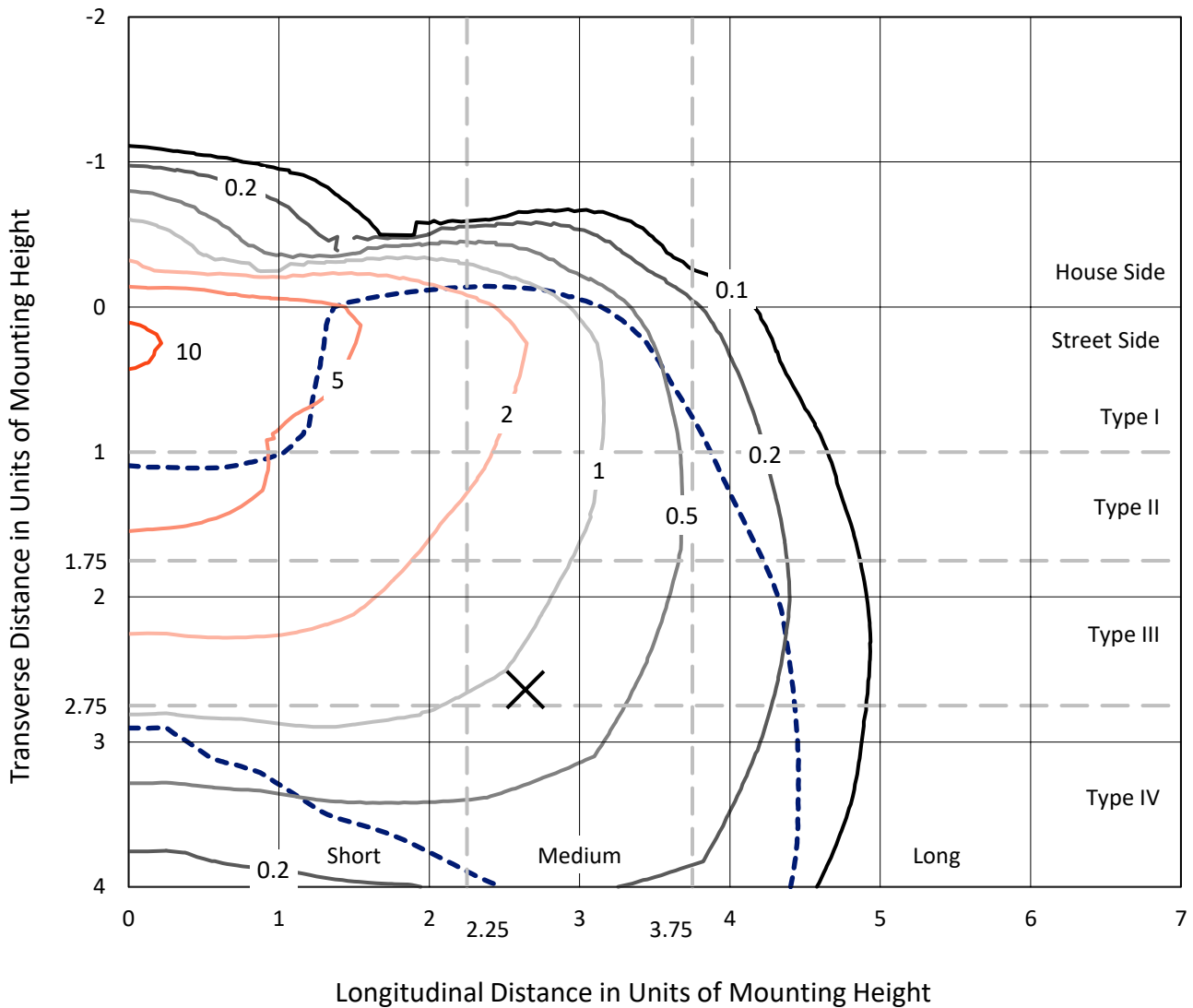
Input Watts (W): 544
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P639408
 CATALOG NUMBER: USSL-M-PA6D-730-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

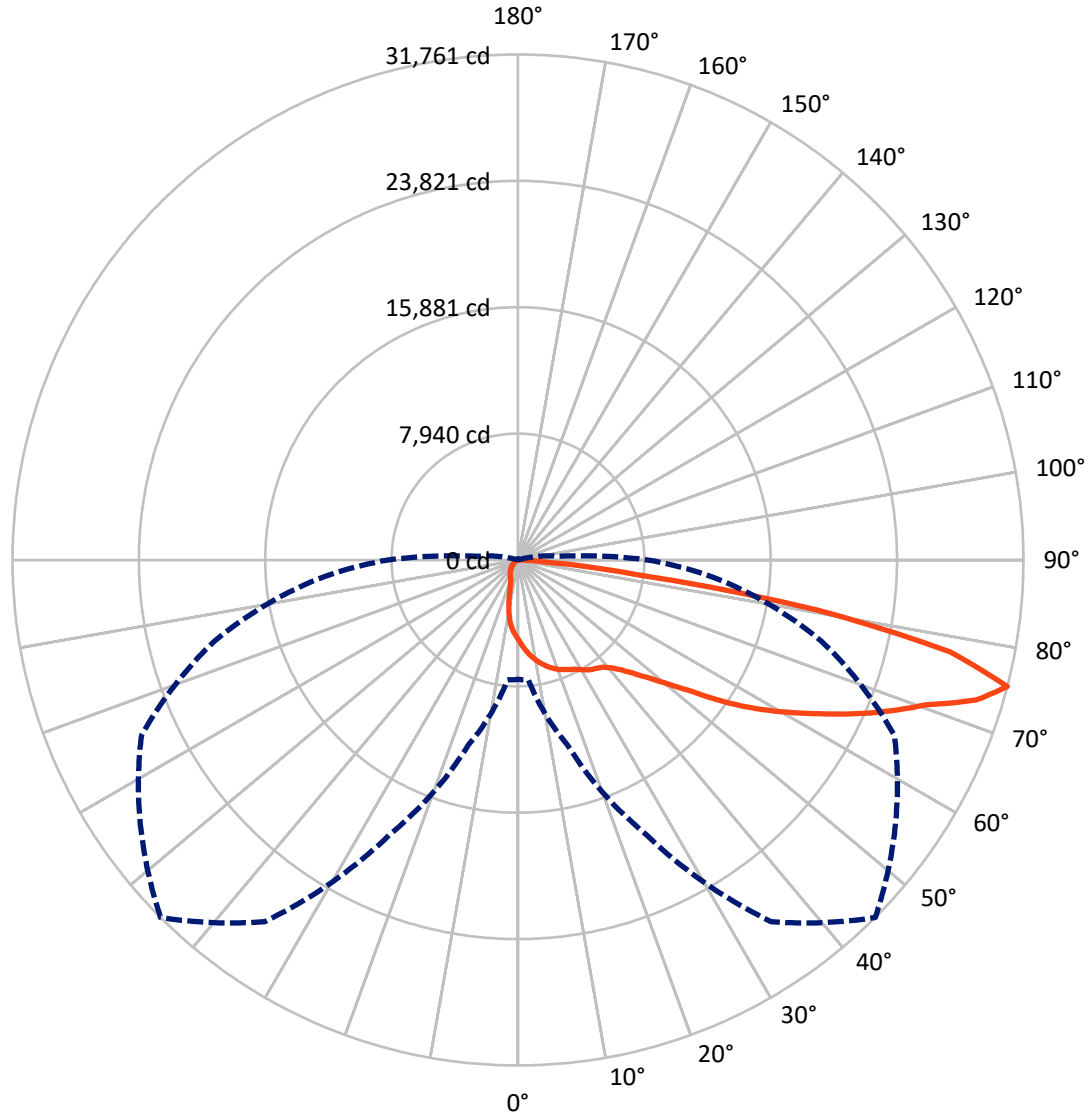
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type IV - Medium - N/A

REPORT NUMBER: P639408
CATALOG NUMBER: USSL-M-PA6D-730-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P639408
 CATALOG NUMBER: USSL-M-PA6D-730-U-T4W-HSS

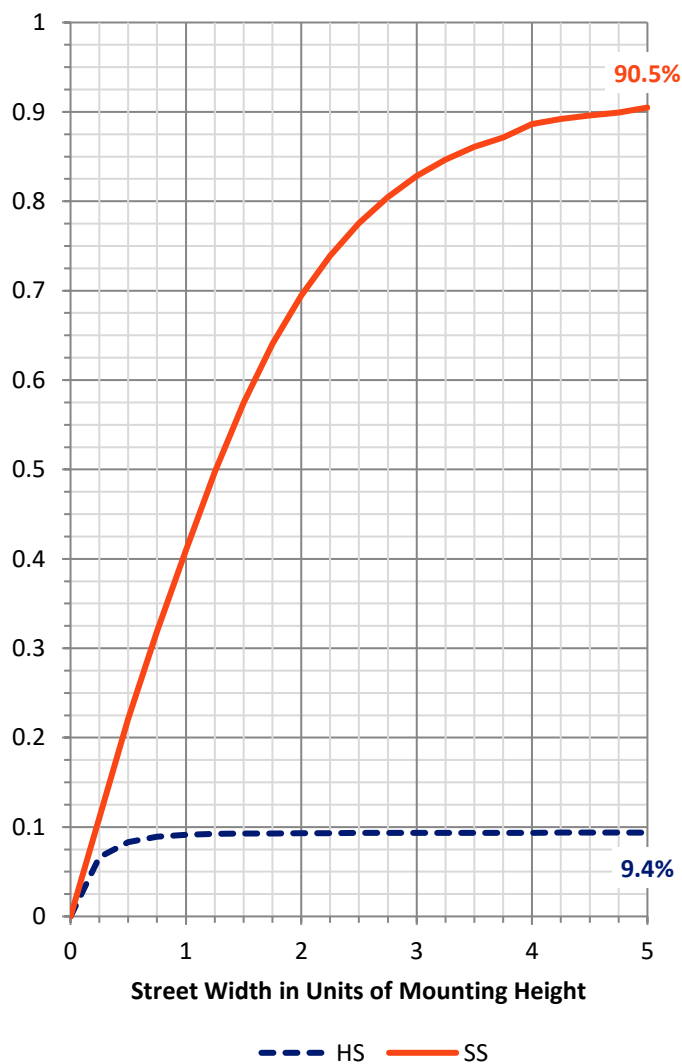
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4213.7 | 0.0 | 4213.7 |
| | % Fixture | 9.5 | 0.0 | 9.5 |
| Street Side | Lumens | 40375.3 | 0.0 | 40375.3 |
| | % Fixture | 90.5 | 0.0 | 90.5 |
| Total | Lumens | 44589.0 | 0.0 | 44589.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 479.7 | 1.1 |
| 10°-20° | 1379.2 | 3.1 |
| 20°-30° | 2247.4 | 5.0 |
| 30°-40° | 3171.7 | 7.1 |
| 40°-50° | 5067.4 | 11.4 |
| 50°-60° | 8593.1 | 19.3 |
| 60°-70° | 12456.6 | 27.9 |
| 70°-80° | 10139.4 | 22.7 |
| 80°-90° | 1054.4 | 2.4 |
| 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° | 44589.0 | 100.0 |
| 0°-180° | 44589.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P639408

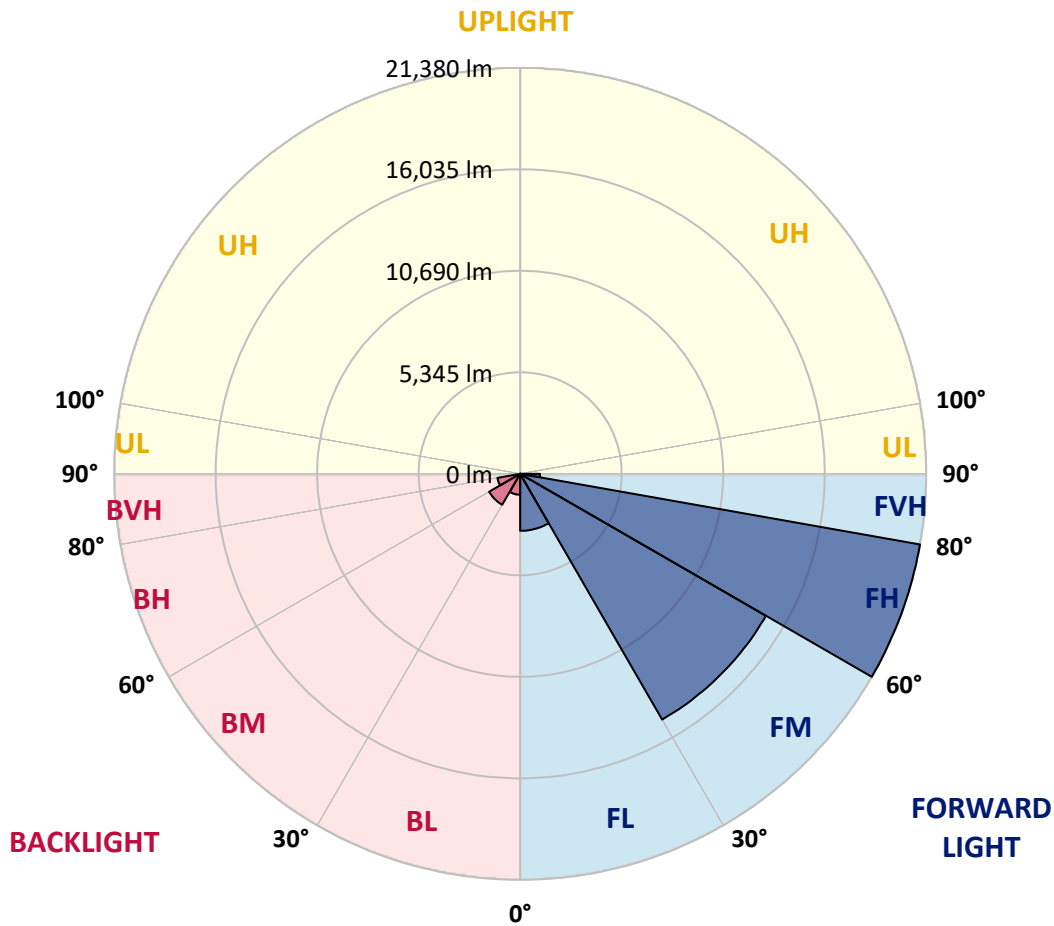
CATALOG NUMBER: USSL-M-PA6D-730-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3004.8 | 6.7 | | | |
| FM (30°-60°) | 14946.5 | 33.5 | | | |
| FH (60°-80°) | 21380.4 | 47.9 | | | G5 |
| FVH (80°-90°) | 1043.6 | 2.3 | | | G5 |
| BL (0°-30°) | 1101.5 | 2.5 | B3/2500 | | |
| BM (30°-60°) | 1885.7 | 4.2 | B2/2500 | | |
| BH (60°-80°) | 1215.6 | 2.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 10.8 | 0.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Medium





REPORT NUMBER: P639408

CATALOG NUMBER: USSL-M-PA6D-730-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5019.9 | 5019.9 | 5019.9 | 5019.9 | 5019.9 | 5019.9 | 5019.9 | 5019.9 | 5019.9 | 5019.9 | 5019.9 |
| 2.5° | 5581.6 | 5584.6 | 5562.3 | 5511.8 | 5453.8 | 5406.3 | 5320.1 | 5235.4 | 5144.7 | 5057.0 | 5018.4 |
| 5° | 6143.3 | 6132.9 | 6089.9 | 5997.7 | 5886.3 | 5779.3 | 5603.9 | 5441.9 | 5256.2 | 5076.4 | 4994.6 |
| 7.5° | 6665.0 | 6638.2 | 6569.8 | 6437.6 | 6293.4 | 6116.6 | 5890.7 | 5654.4 | 5397.3 | 5164.0 | 5043.7 |
| 10° | 7118.2 | 7094.4 | 6994.9 | 6822.5 | 6627.8 | 6419.8 | 6168.6 | 5919.0 | 5642.5 | 5340.9 | 5190.8 |
| 12.5° | 7512.0 | 7467.4 | 7347.1 | 7128.6 | 6898.3 | 6691.7 | 6436.1 | 6208.7 | 5883.3 | 5560.8 | 5375.1 |
| 15° | 7847.9 | 7798.8 | 7660.6 | 7391.6 | 7122.7 | 6941.4 | 6711.0 | 6485.1 | 6174.6 | 5789.7 | 5575.7 |
| 17.5° | 8078.2 | 8032.1 | 7882.0 | 7580.4 | 7306.9 | 7153.9 | 6981.5 | 6758.6 | 6446.5 | 6028.9 | 5789.7 |
| 20° | 8154.0 | 8103.5 | 7978.6 | 7671.0 | 7425.8 | 7344.1 | 7197.0 | 7008.2 | 6703.6 | 6274.1 | 6017.0 |
| 22.5° | 8081.2 | 8032.1 | 7945.9 | 7663.6 | 7492.7 | 7486.7 | 7388.7 | 7237.1 | 6945.8 | 6513.4 | 6235.5 |
| 25° | 7978.6 | 7932.6 | 7861.2 | 7620.5 | 7535.8 | 7616.0 | 7568.5 | 7442.2 | 7201.4 | 6769.0 | 6497.0 |
| 27.5° | 7938.5 | 7888.0 | 7824.1 | 7626.4 | 7622.0 | 7778.0 | 7779.5 | 7687.4 | 7461.5 | 7035.0 | 6751.1 |
| 30° | 8005.4 | 7948.9 | 7877.6 | 7709.7 | 7764.6 | 8002.4 | 8070.8 | 7966.7 | 7705.2 | 7281.7 | 7011.2 |
| 32.5° | 8173.3 | 8072.2 | 7984.6 | 7833.0 | 7923.6 | 8232.7 | 8339.7 | 8176.3 | 7898.4 | 7534.3 | 7296.5 |
| 35° | 8461.6 | 8305.6 | 8159.9 | 7995.0 | 8066.3 | 8379.9 | 8537.4 | 8412.6 | 8133.2 | 7840.4 | 7642.8 |
| 37.5° | 9081.3 | 8885.1 | 8645.9 | 8317.4 | 8272.9 | 8558.2 | 8801.9 | 8785.6 | 8498.7 | 8243.1 | 8090.1 |
| 40° | 10292.4 | 10045.7 | 9699.5 | 8990.6 | 8629.5 | 8883.6 | 9218.0 | 9302.7 | 9014.4 | 8793.0 | 8684.5 |
| 42.5° | 12279.3 | 12029.6 | 11407.0 | 10068.0 | 9192.7 | 9408.2 | 9784.2 | 10008.6 | 9712.9 | 9568.7 | 9472.1 |
| 45° | 14364.2 | 14172.5 | 13535.0 | 11664.0 | 10127.5 | 10149.8 | 10549.5 | 10967.1 | 10781.3 | 10620.8 | 10485.6 |
| 47.5° | 15945.4 | 15759.6 | 15301.9 | 13595.9 | 11564.5 | 11071.1 | 11491.7 | 12124.7 | 12038.5 | 11900.3 | 11756.2 |
| 50° | 17073.3 | 16874.1 | 16581.4 | 15416.3 | 13426.5 | 12230.2 | 12604.7 | 13466.6 | 13680.6 | 13598.9 | 13329.9 |
| 52.5° | 18129.9 | 17929.2 | 17678.1 | 17001.9 | 15526.3 | 13734.1 | 13928.8 | 15101.3 | 15469.8 | 15511.4 | 14924.4 |
| 55° | 19006.6 | 18849.1 | 18954.6 | 18525.2 | 17707.8 | 15747.7 | 15474.3 | 16798.4 | 17372.0 | 17670.7 | 16746.3 |
| 57.5° | 19558.0 | 19385.6 | 19962.2 | 20199.9 | 19914.6 | 17615.7 | 17128.3 | 18663.4 | 19256.3 | 20002.3 | 18446.4 |
| 60° | 20104.8 | 19907.2 | 20703.7 | 21689.0 | 21995.1 | 19424.2 | 18954.6 | 20541.7 | 21154.0 | 22678.7 | 20161.3 |
| 62.5° | 20419.9 | 20202.9 | 21301.1 | 22822.8 | 23668.4 | 21272.9 | 20904.3 | 22449.8 | 23103.7 | 25475.4 | 21616.1 |
| 65° | 19335.1 | 19283.0 | 21479.4 | 23567.3 | 25047.4 | 23305.8 | 22987.8 | 24353.5 | 25053.4 | 28034.4 | 22787.2 |
| 67.5° | 17996.1 | 17985.7 | 20920.7 | 24034.0 | 26176.8 | 25280.8 | 24970.2 | 26304.6 | 26870.8 | 29554.6 | 22992.2 |
| 70° | 17015.3 | 17018.3 | 19916.1 | 24650.7 | 27472.7 | 27246.8 | 26918.4 | 28131.0 | 28012.1 | 28441.6 | 21142.1 |
| 72.5° | 14096.7 | 14237.9 | 17325.9 | 23738.2 | 29042.0 | 30107.5 | 28679.4 | 28966.2 | 26261.6 | 22030.8 | 15573.9 |
| 75° | 7504.6 | 7565.5 | 12034.1 | 19018.5 | 27741.7 | 31761.4 | 28963.2 | 26105.5 | 19758.6 | 12271.8 | 8182.2 |
| 77.5° | 2526.3 | 2472.8 | 4192.2 | 10262.7 | 21162.9 | 27769.9 | 23739.7 | 18361.7 | 10571.8 | 4046.5 | 2643.7 |
| 80° | 798.0 | 824.8 | 1356.8 | 3263.4 | 11169.2 | 19054.2 | 14289.9 | 9094.7 | 3162.3 | 905.0 | 521.6 |
| 82.5° | 359.6 | 389.3 | 624.1 | 1432.6 | 4388.3 | 7568.5 | 6914.6 | 3140.0 | 1084.8 | 289.8 | 194.7 |
| 85° | 135.2 | 144.1 | 306.1 | 815.8 | 1781.8 | 2077.5 | 2400.0 | 1150.2 | 697.0 | 114.4 | 77.3 |
| 87.5° | 32.7 | 37.2 | 126.3 | 264.5 | 416.1 | 282.4 | 395.3 | 425.0 | 390.8 | 40.1 | 31.2 |
| 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: P639408

CATALOG NUMBER: USSL-M-PA6D-730-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5019.9 | 5019.9 | 5019.9 | 5019.9 | 5019.9 | 5019.9 | 5019.9 | 5019.9 | 5019.9 | 5019.9 |
| 2.5° | 4981.3 | 4899.5 | 4843.1 | 4761.3 | 4687.0 | 4660.3 | 4620.1 | 4608.3 | 4609.7 | 4574.1 |
| 5° | 4921.8 | 4771.7 | 4648.4 | 4510.2 | 4386.8 | 4291.7 | 4190.7 | 4134.2 | 4108.9 | 4095.6 |
| 7.5° | 4935.2 | 4715.3 | 4499.8 | 4241.2 | 3964.8 | 3735.9 | 3529.4 | 3410.5 | 3346.6 | 3334.7 |
| 10° | 5045.2 | 4740.5 | 4380.9 | 3890.5 | 3386.7 | 3004.8 | 2710.6 | 2548.6 | 2452.0 | 2438.6 |
| 12.5° | 5198.2 | 4785.1 | 4189.2 | 3431.3 | 2726.9 | 2212.7 | 1890.3 | 1784.8 | 1755.0 | 1752.1 |
| 15° | 5367.6 | 4807.4 | 3908.3 | 2884.4 | 2055.2 | 1616.8 | 1469.7 | 1483.1 | 1500.9 | 1502.4 |
| 17.5° | 5551.9 | 4788.1 | 3535.3 | 2293.0 | 1566.3 | 1367.2 | 1325.6 | 1364.2 | 1414.7 | 1416.2 |
| 20° | 5749.5 | 4707.8 | 3094.0 | 1763.9 | 1341.9 | 1269.1 | 1266.1 | 1295.8 | 1349.3 | 1355.3 |
| 22.5° | 5948.7 | 4557.7 | 2551.6 | 1426.6 | 1231.9 | 1215.6 | 1206.7 | 1226.0 | 1279.5 | 1285.4 |
| 25° | 6152.3 | 4327.4 | 2018.1 | 1231.9 | 1165.1 | 1157.6 | 1144.3 | 1156.2 | 1200.7 | 1208.2 |
| 27.5° | 6364.8 | 4059.9 | 1591.6 | 1108.6 | 1089.3 | 1086.3 | 1081.8 | 1077.4 | 1117.5 | 1126.4 |
| 30° | 6563.9 | 3678.0 | 1264.6 | 1020.9 | 998.6 | 1001.6 | 997.1 | 997.1 | 1029.8 | 1037.3 |
| 32.5° | 6773.4 | 3275.3 | 1061.0 | 942.2 | 908.0 | 903.5 | 908.0 | 912.4 | 933.2 | 940.7 |
| 35° | 7000.8 | 2808.6 | 945.1 | 869.3 | 823.3 | 802.5 | 804.0 | 811.4 | 826.2 | 833.7 |
| 37.5° | 7262.3 | 2362.8 | 867.9 | 802.5 | 746.0 | 711.8 | 694.0 | 694.0 | 710.3 | 710.3 |
| 40° | 7580.4 | 1891.7 | 811.4 | 740.1 | 674.7 | 624.1 | 590.0 | 564.7 | 557.3 | 569.2 |
| 42.5° | 7965.3 | 1505.4 | 763.8 | 691.0 | 607.8 | 545.4 | 483.0 | 431.0 | 417.6 | 422.0 |
| 45° | 8448.2 | 1178.4 | 719.3 | 640.5 | 539.4 | 459.2 | 376.0 | 307.6 | 289.8 | 294.2 |
| 47.5° | 9027.8 | 965.9 | 673.2 | 585.5 | 468.1 | 373.0 | 264.5 | 208.0 | 206.6 | 211.0 |
| 50° | 9706.9 | 824.8 | 618.2 | 532.0 | 399.7 | 280.9 | 178.3 | 145.6 | 159.0 | 166.4 |
| 52.5° | 10458.9 | 744.5 | 564.7 | 480.0 | 328.4 | 196.2 | 126.3 | 115.9 | 133.7 | 139.7 |
| 55° | 11216.7 | 689.5 | 512.7 | 420.6 | 255.6 | 139.7 | 99.6 | 98.1 | 117.4 | 121.9 |
| 57.5° | 11863.2 | 625.6 | 462.2 | 353.7 | 193.2 | 111.5 | 87.7 | 87.7 | 107.0 | 111.5 |
| 60° | 12371.4 | 540.9 | 402.7 | 270.5 | 148.6 | 98.1 | 77.3 | 77.3 | 98.1 | 102.5 |
| 62.5° | 12757.8 | 417.6 | 313.6 | 200.6 | 126.3 | 92.1 | 69.8 | 68.4 | 89.2 | 95.1 |
| 65° | 12851.4 | 289.8 | 228.9 | 153.1 | 114.4 | 87.7 | 62.4 | 59.4 | 80.2 | 84.7 |
| 67.5° | 12424.9 | 205.1 | 170.9 | 123.3 | 107.0 | 84.7 | 56.5 | 50.5 | 69.8 | 74.3 |
| 70° | 10793.2 | 159.0 | 132.3 | 101.1 | 102.5 | 83.2 | 52.0 | 43.1 | 56.5 | 59.4 |
| 72.5° | 7281.7 | 130.8 | 107.0 | 86.2 | 96.6 | 78.8 | 46.1 | 34.2 | 44.6 | 46.1 |
| 75° | 2585.7 | 105.5 | 84.7 | 69.8 | 83.2 | 69.8 | 38.6 | 26.7 | 32.7 | 34.2 |
| 77.5° | 465.1 | 77.3 | 60.9 | 50.5 | 63.9 | 55.0 | 31.2 | 19.3 | 23.8 | 23.8 |
| 80° | 117.4 | 44.6 | 35.7 | 28.2 | 43.1 | 38.6 | 23.8 | 14.9 | 16.3 | 16.3 |
| 82.5° | 49.0 | 23.8 | 23.8 | 19.3 | 23.8 | 23.8 | 14.9 | 8.9 | 10.4 | 10.4 |
| 85° | 28.2 | 19.3 | 19.3 | 16.3 | 16.3 | 14.9 | 10.4 | 5.9 | 3.0 | 4.5 |
| 87.5° | 19.3 | 17.8 | 16.3 | 14.9 | 13.4 | 8.9 | 5.9 | 3.0 | 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 |

(END OF REPORT)