

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: P285798

Luminaire Tested: **USSL-XL-C069-D-U-T3-AP-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-7)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-C069-D-U-T3-AP-7050
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K LEDS AND TYPE III OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44378 lumens
Efficiency: N/A
Efficacy: 155.7 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 285
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

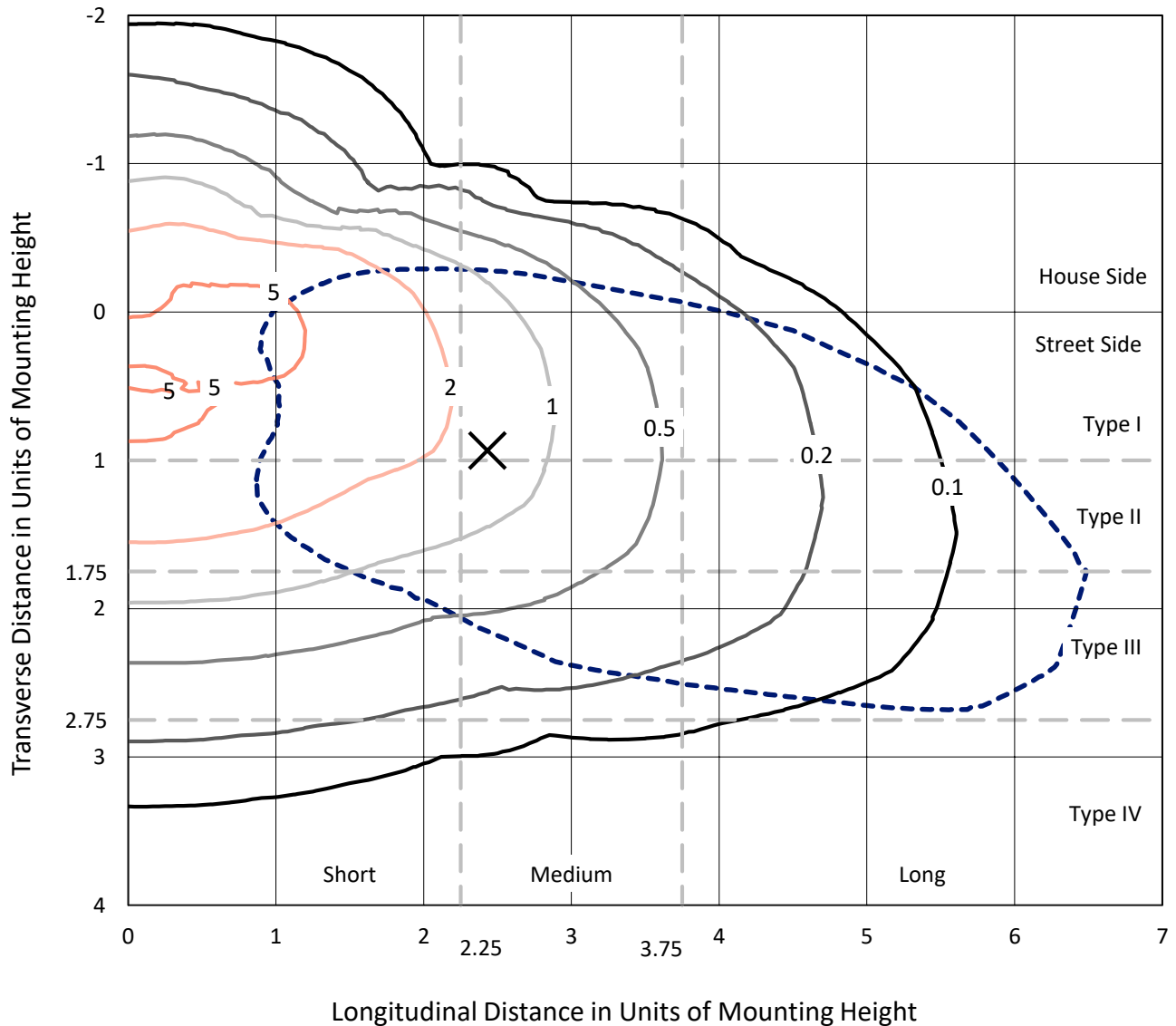


REPORT NUMBER: P285798

CATALOG NUMBER: USSL-XL-C069-D-U-T3-AP-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

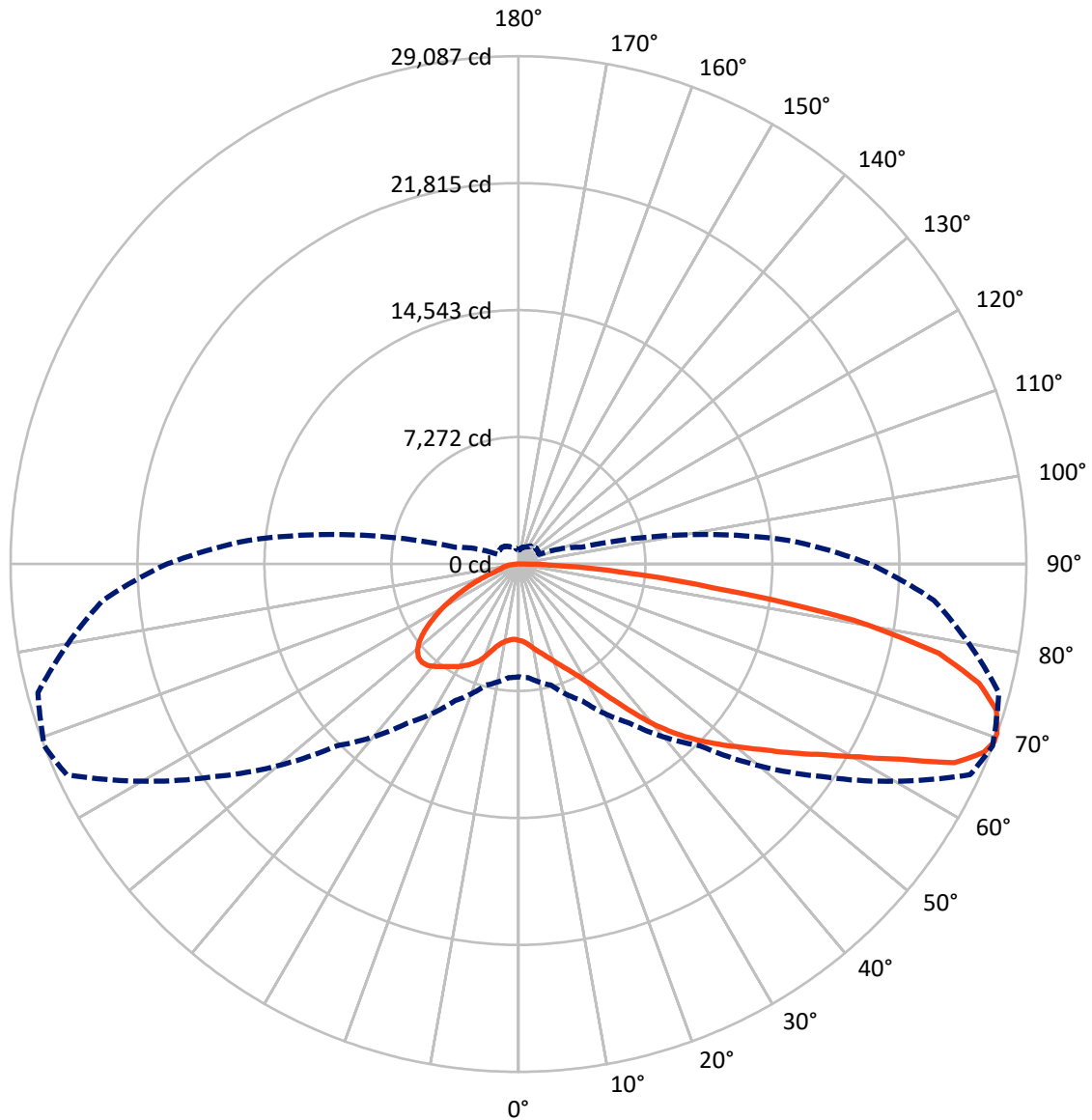


Based on 30 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P285798

CATALOG NUMBER: USSL-XL-C069-D-U-T3-AP-7050

Luminous Intensity Polar Plot



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

REPORT NUMBER: P285798

CATALOG NUMBER: USSL-XL-C069-D-U-T3-AP-7050

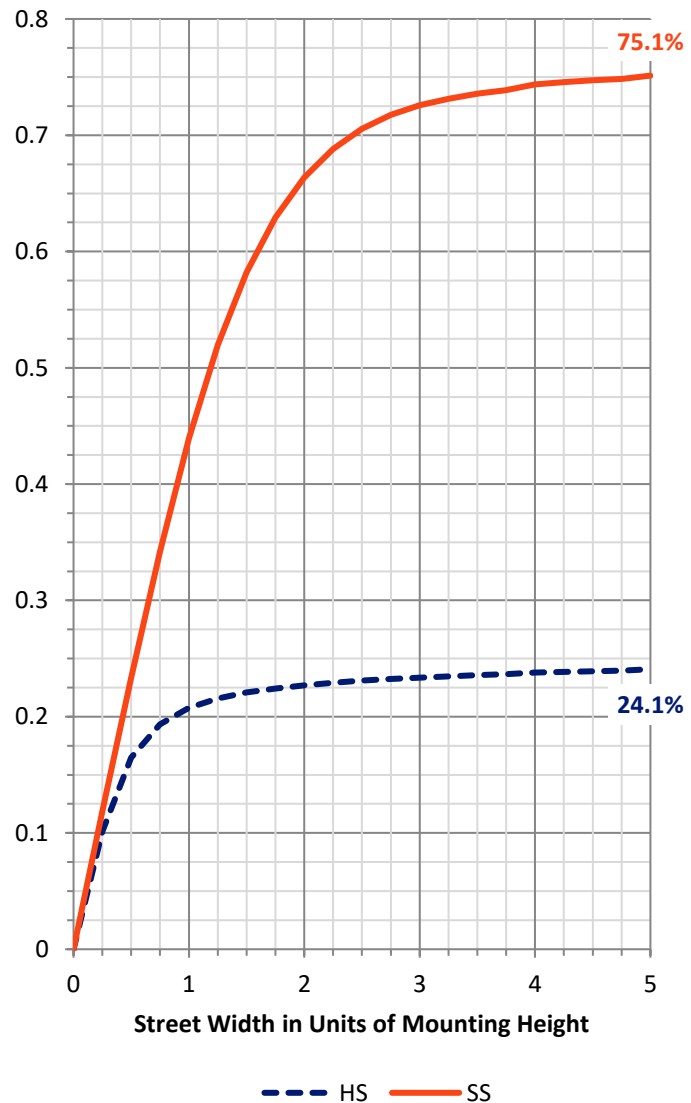
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10910.5 | 0.0 | 10910.5 |
| | % Fixture | 24.6 | 0.0 | 24.6 |
| Street Side | Lumens | 33467.6 | 0.0 | 33467.6 |
| | % Fixture | 75.4 | 0.0 | 75.4 |
| Total | Lumens | 44378.0 | 0.0 | 44378.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 431.3 | 1.0 |
| 10°-20° | 1405.6 | 3.2 |
| 20°-30° | 2632.5 | 5.9 |
| 30°-40° | 4472.9 | 10.1 |
| 40°-50° | 6863.9 | 15.5 |
| 50°-60° | 8968.0 | 20.2 |
| 60°-70° | 10211.7 | 23.0 |
| 70°-80° | 7709.7 | 17.4 |
| 80°-90° | 1682.5 | 3.8 |
| 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° | 44378.0 | 100.0 |
| 0°-180° | 44378.0 | 100.0 |



REPORT NUMBER: P285798

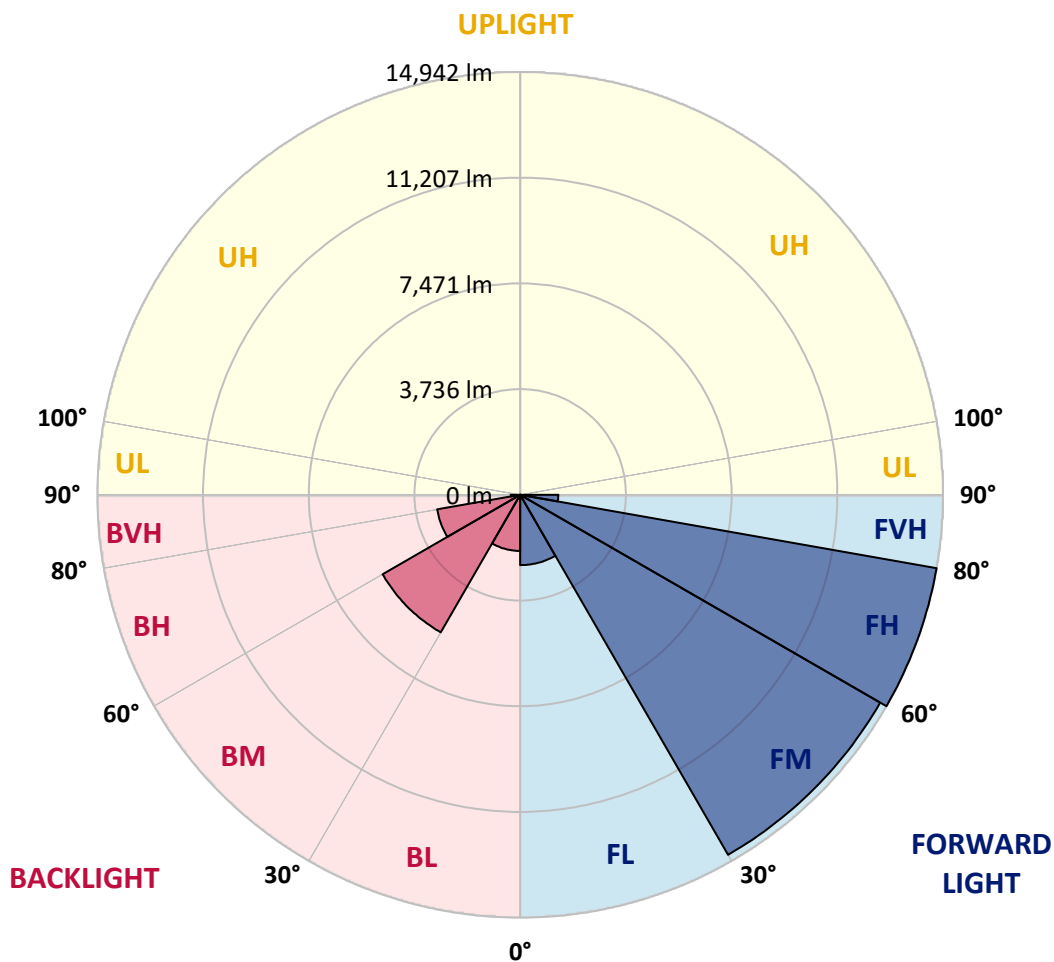
CATALOG NUMBER: USSL-XL-C069-D-U-T3-AP-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2485.5 | 5.6 | | | |
| FM | (30°-60°) | 14690.9 | 33.1 | | | |
| FH | (60°-80°) | 14942.3 | 33.7 | | | G5 |
| FVH | (80°-90°) | 1348.9 | 3.0 | | | G5 |
| BL | (0°-30°) | 1983.8 | 4.5 | B3/2500 | | |
| BM | (30°-60°) | 5613.9 | 12.7 | B4/8500 | | |
| BH | (60°-80°) | 2979.1 | 6.7 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 333.6 | 0.8 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type III Medium





REPORT NUMBER: P285798

CATALOG NUMBER: USSL-XL-C069-D-U-T3-AP-7050

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 69° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4378.3 | 4378.3 | 4378.3 | 4378.3 | 4378.3 | 4378.3 | 4378.3 | 4378.3 | 4378.3 | 4378.3 | 4378.3 |
| 2.5° | 4544.9 | 4558.4 | 4556.7 | 4549.9 | 4546.5 | 4527.8 | 4504.0 | 4473.4 | 4422.4 | 4398.7 | 4368.1 |
| 5° | 4738.5 | 4748.7 | 4750.4 | 4738.5 | 4724.9 | 4696.0 | 4646.7 | 4599.1 | 4543.0 | 4509.1 | 4449.7 |
| 7.5° | 4903.3 | 4911.8 | 4927.1 | 4916.9 | 4910.1 | 4886.2 | 4838.8 | 4782.7 | 4709.6 | 4662.1 | 4578.8 |
| 10° | 5035.8 | 5042.6 | 5054.5 | 5071.5 | 5103.7 | 5083.4 | 5027.3 | 4988.2 | 4922.0 | 4848.9 | 4745.3 |
| 12.5° | 5131.0 | 5125.9 | 5159.8 | 5190.4 | 5256.7 | 5278.7 | 5239.7 | 5210.8 | 5146.2 | 5071.5 | 4949.2 |
| 15° | 5175.2 | 5173.5 | 5232.9 | 5309.4 | 5407.9 | 5443.5 | 5443.5 | 5411.3 | 5375.6 | 5317.8 | 5188.7 |
| 17.5° | 5270.2 | 5277.0 | 5316.1 | 5414.7 | 5520.1 | 5603.3 | 5683.1 | 5686.5 | 5659.3 | 5620.2 | 5486.0 |
| 20° | 5416.4 | 5428.3 | 5448.6 | 5526.8 | 5644.1 | 5790.1 | 5939.7 | 5994.1 | 5980.5 | 5965.1 | 5859.9 |
| 22.5° | 5599.9 | 5605.0 | 5599.9 | 5667.8 | 5824.2 | 6021.2 | 6237.0 | 6327.1 | 6335.6 | 6337.2 | 6284.6 |
| 25° | 5893.8 | 5871.7 | 5815.7 | 5876.8 | 6058.6 | 6286.3 | 6549.7 | 6699.1 | 6738.2 | 6773.9 | 6899.6 |
| 27.5° | 6430.7 | 6379.8 | 6274.4 | 6253.9 | 6357.6 | 6607.4 | 6933.5 | 7183.4 | 7239.4 | 7337.9 | 7672.6 |
| 30° | 7297.2 | 7229.2 | 7130.7 | 6829.9 | 6789.2 | 7003.3 | 7417.8 | 7774.6 | 7886.7 | 8185.7 | 8571.4 |
| 32.5° | 8175.5 | 8131.3 | 8020.9 | 7732.1 | 7426.3 | 7506.1 | 7913.8 | 8471.1 | 8712.4 | 9317.3 | 9674.0 |
| 35° | 8929.9 | 8907.8 | 8845.0 | 8703.9 | 8348.8 | 8124.6 | 8479.6 | 9254.4 | 9704.7 | 10649.2 | 10970.4 |
| 37.5° | 9657.1 | 9646.9 | 9650.3 | 9458.2 | 9308.8 | 8985.9 | 9128.7 | 10168.5 | 10907.5 | 12044.2 | 12259.9 |
| 40° | 10292.5 | 10297.6 | 10350.2 | 10262.0 | 10236.4 | 10036.0 | 9893.2 | 11143.7 | 12156.3 | 13423.7 | 13474.7 |
| 42.5° | 10814.1 | 10819.1 | 11063.9 | 10931.3 | 11089.3 | 11045.1 | 10839.6 | 12054.3 | 13304.8 | 14539.9 | 14533.1 |
| 45° | 11157.2 | 11165.7 | 11407.1 | 11514.0 | 11848.7 | 11994.9 | 11841.9 | 12988.8 | 14376.9 | 15572.9 | 15438.7 |
| 47.5° | 11412.2 | 11405.4 | 11542.9 | 11974.5 | 12545.3 | 12834.2 | 12890.3 | 14050.7 | 15416.7 | 16529.5 | 16296.7 |
| 50° | 11549.7 | 11565.0 | 11828.4 | 12404.3 | 13247.1 | 13649.7 | 13957.2 | 15304.5 | 16483.6 | 17452.0 | 17124.2 |
| 52.5° | 11636.4 | 11712.8 | 12098.5 | 12783.2 | 13880.8 | 14511.1 | 14896.8 | 16694.3 | 17686.4 | 18410.3 | 18000.8 |
| 55° | 11697.6 | 11836.9 | 12217.5 | 12982.0 | 14274.9 | 15209.4 | 15778.5 | 18128.2 | 19106.8 | 19495.9 | 18962.5 |
| 57.5° | 11260.9 | 11395.1 | 12013.5 | 13012.6 | 14585.8 | 15783.6 | 16718.0 | 19642.1 | 20588.3 | 20834.8 | 19913.8 |
| 60° | 10515.1 | 10594.9 | 11391.7 | 12773.0 | 14517.9 | 16305.2 | 17951.5 | 21437.9 | 22428.3 | 22447.1 | 20916.3 |
| 62.5° | 9747.2 | 9779.4 | 10584.7 | 12147.8 | 14212.1 | 16476.8 | 19185.0 | 23831.7 | 24609.9 | 24372.0 | 21981.6 |
| 65° | 8727.7 | 8763.4 | 9594.2 | 11119.9 | 13473.0 | 16286.5 | 20194.2 | 26354.7 | 27443.8 | 26808.4 | 23038.3 |
| 67.5° | 7395.7 | 7473.9 | 8245.2 | 9658.8 | 12158.0 | 15550.9 | 20918.0 | 28092.9 | 28760.5 | 28213.5 | 23768.9 |
| 69° | 6463.0 | 6536.0 | 7183.4 | 8647.8 | 11133.5 | 14721.8 | 21222.1 | 28551.6 | 29086.7 | 28490.3 | 23891.2 |
| 70° | 5791.8 | 5847.9 | 6454.5 | 7891.8 | 10331.6 | 14013.3 | 21288.3 | 28675.6 | 29069.8 | 28500.6 | 23825.0 |
| 72.5° | 4128.5 | 4176.1 | 4505.7 | 5521.8 | 7830.6 | 11738.3 | 20963.9 | 28339.2 | 28628.0 | 27807.4 | 22956.8 |
| 75° | 3053.0 | 3090.5 | 3287.6 | 3647.8 | 4558.4 | 8306.3 | 18942.0 | 26940.9 | 27248.4 | 26291.9 | 21147.3 |
| 77.5° | 2215.5 | 2246.0 | 2436.4 | 2788.1 | 3207.7 | 3911.0 | 13131.5 | 24314.2 | 24616.7 | 23848.7 | 18204.7 |
| 80° | 1512.1 | 1544.4 | 1716.0 | 2013.3 | 2344.6 | 2602.9 | 6447.7 | 17795.2 | 19462.0 | 19088.2 | 12973.5 |
| 82.5° | 283.7 | 348.3 | 737.4 | 1044.8 | 1318.4 | 1410.2 | 2438.1 | 9784.5 | 11369.7 | 11597.3 | 6765.3 |
| 85° | 188.6 | 203.9 | 450.2 | 438.4 | 429.9 | 630.3 | 954.9 | 4690.9 | 5934.6 | 6148.7 | 2920.6 |
| 87.5° | 93.5 | 98.6 | 134.2 | 185.2 | 236.1 | 283.7 | 314.3 | 1236.9 | 1787.3 | 1916.5 | 545.4 |
| 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: P285798

CATALOG NUMBER: USSL-XL-C069-D-U-T3-AP-7050

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4378.3 | 4378.3 | 4378.3 | 4378.3 | 4378.3 | 4378.3 | 4378.3 | 4378.3 | 4378.3 | 4378.3 | 4378.3 |
| 2.5° | 4356.2 | 4347.7 | 4322.3 | 4312.0 | 4305.2 | 4301.8 | 4261.1 | 4254.2 | 4233.9 | 4220.3 | 4208.4 |
| 5° | 4420.7 | 4407.2 | 4347.7 | 4325.7 | 4291.6 | 4262.8 | 4194.8 | 4165.9 | 4145.6 | 4118.3 | 4106.5 |
| 7.5° | 4534.6 | 4510.8 | 4420.7 | 4380.0 | 4320.6 | 4271.3 | 4177.8 | 4133.6 | 4094.6 | 4057.2 | 4050.4 |
| 10° | 4689.2 | 4645.0 | 4521.0 | 4458.2 | 4371.5 | 4313.7 | 4205.0 | 4120.0 | 4062.3 | 4019.8 | 4018.1 |
| 12.5° | 4891.4 | 4825.1 | 4675.6 | 4592.3 | 4485.3 | 4397.0 | 4273.0 | 4145.6 | 4050.4 | 3982.5 | 3979.1 |
| 15° | 5132.7 | 5063.0 | 4911.8 | 4804.7 | 4679.0 | 4560.1 | 4361.3 | 4172.7 | 4014.7 | 3905.9 | 3892.4 |
| 17.5° | 5428.3 | 5362.0 | 5224.4 | 5137.8 | 4961.1 | 4726.6 | 4444.6 | 4162.5 | 3936.6 | 3787.0 | 3765.0 |
| 20° | 5802.1 | 5820.8 | 5691.7 | 5503.0 | 5209.1 | 4864.2 | 4485.3 | 4109.9 | 3781.9 | 3573.0 | 3542.4 |
| 22.5° | 6323.7 | 6386.5 | 6170.7 | 5824.2 | 5397.6 | 4937.2 | 4468.3 | 3970.5 | 3569.5 | 3316.4 | 3291.0 |
| 25° | 6962.5 | 6943.7 | 6554.7 | 6060.3 | 5494.5 | 4935.5 | 4373.3 | 3771.8 | 3299.5 | 3014.0 | 2995.3 |
| 27.5° | 7630.1 | 7518.1 | 6916.6 | 6225.1 | 5511.5 | 4842.2 | 4186.3 | 3472.8 | 2988.5 | 2750.7 | 2694.6 |
| 30° | 8481.3 | 8168.8 | 7286.9 | 6364.4 | 5455.4 | 4663.8 | 3848.2 | 3185.6 | 2810.1 | 2551.9 | 2514.5 |
| 32.5° | 9465.1 | 8945.2 | 7703.2 | 6406.9 | 5331.4 | 4390.2 | 3481.2 | 3053.0 | 2692.9 | 2399.0 | 2356.5 |
| 35° | 10608.5 | 9939.1 | 8185.7 | 6422.1 | 5095.3 | 3984.2 | 3282.4 | 2976.6 | 2614.8 | 2281.8 | 2225.7 |
| 37.5° | 11804.6 | 10992.4 | 8780.4 | 6405.2 | 4820.0 | 3539.0 | 3143.1 | 2866.2 | 2526.4 | 2254.5 | 2222.3 |
| 40° | 12885.1 | 12006.8 | 9451.4 | 6357.6 | 4442.9 | 3250.2 | 2991.9 | 2713.2 | 2450.0 | 2244.3 | 2218.9 |
| 42.5° | 13875.7 | 12890.3 | 10093.7 | 6277.8 | 3972.2 | 3044.6 | 2825.4 | 2599.4 | 2353.1 | 2101.7 | 2050.7 |
| 45° | 14733.7 | 13705.8 | 10569.4 | 6087.5 | 3445.5 | 2834.0 | 2624.9 | 2441.5 | 2208.7 | 1958.9 | 1907.9 |
| 47.5° | 15469.3 | 14378.6 | 10943.1 | 5761.3 | 3020.8 | 2636.8 | 2397.3 | 2252.8 | 2049.0 | 1811.2 | 1760.2 |
| 50° | 16220.3 | 14925.6 | 11162.3 | 5222.7 | 2665.8 | 2410.8 | 2171.3 | 2033.7 | 1858.7 | 1685.3 | 1654.8 |
| 52.5° | 17025.6 | 15814.2 | 11481.8 | 4335.8 | 2337.8 | 2173.0 | 1931.8 | 1782.2 | 1653.1 | 1580.1 | 1551.2 |
| 55° | 17839.4 | 16602.5 | 11599.0 | 3279.0 | 2050.7 | 1986.1 | 1705.8 | 1512.1 | 1420.4 | 1374.5 | 1367.7 |
| 57.5° | 18648.1 | 17275.3 | 11198.1 | 2334.4 | 1860.4 | 1770.4 | 1464.6 | 1281.0 | 1172.4 | 1204.6 | 1253.9 |
| 60° | 19475.6 | 17766.4 | 10173.6 | 1826.4 | 1710.9 | 1512.1 | 1260.6 | 1124.8 | 1077.2 | 1041.5 | 1043.2 |
| 62.5° | 20240.1 | 17995.7 | 8430.3 | 1551.2 | 1566.4 | 1352.4 | 1189.3 | 1056.7 | 1009.2 | 948.1 | 929.3 |
| 65° | 20748.1 | 17591.4 | 6580.2 | 1435.6 | 1435.6 | 1311.6 | 1185.9 | 1058.5 | 993.9 | 886.9 | 868.2 |
| 67.5° | 20601.9 | 16537.9 | 4869.3 | 1332.0 | 1352.4 | 1328.6 | 1214.8 | 1055.0 | 975.2 | 873.3 | 866.5 |
| 69° | 20131.3 | 15528.8 | 3739.4 | 1301.5 | 1338.8 | 1344.0 | 1248.8 | 1072.1 | 995.6 | 841.0 | 803.6 |
| 70° | 19659.0 | 14750.6 | 3095.5 | 1275.9 | 1335.4 | 1354.1 | 1275.9 | 1092.4 | 980.3 | 790.0 | 766.2 |
| 72.5° | 18053.5 | 12467.2 | 1559.6 | 1177.4 | 1330.3 | 1366.0 | 1335.4 | 1168.9 | 971.8 | 761.1 | 740.8 |
| 75° | 15872.0 | 9589.1 | 1000.8 | 1094.1 | 1287.9 | 1379.6 | 1383.0 | 1240.3 | 975.2 | 744.2 | 718.7 |
| 77.5° | 12716.9 | 5559.1 | 830.9 | 1000.8 | 1208.0 | 1352.4 | 1398.2 | 1294.7 | 1016.0 | 773.1 | 744.2 |
| 80° | 6762.0 | 2198.4 | 667.7 | 854.6 | 1106.0 | 1270.8 | 1355.8 | 1275.9 | 1005.8 | 645.6 | 626.9 |
| 82.5° | 2993.6 | 683.0 | 489.4 | 671.1 | 869.9 | 1111.1 | 1151.9 | 1123.1 | 880.0 | 390.8 | 446.9 |
| 85° | 841.0 | 282.0 | 326.2 | 482.5 | 601.5 | 786.7 | 902.2 | 905.6 | 683.0 | 169.9 | 39.1 |
| 87.5° | 86.7 | 64.5 | 95.2 | 185.2 | 346.6 | 545.4 | 659.3 | 632.0 | 457.0 | 144.5 | 3.4 |
| 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)