

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: P478409

Luminaire Tested: **IFLD-S-SA6E-722-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478409  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-722-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

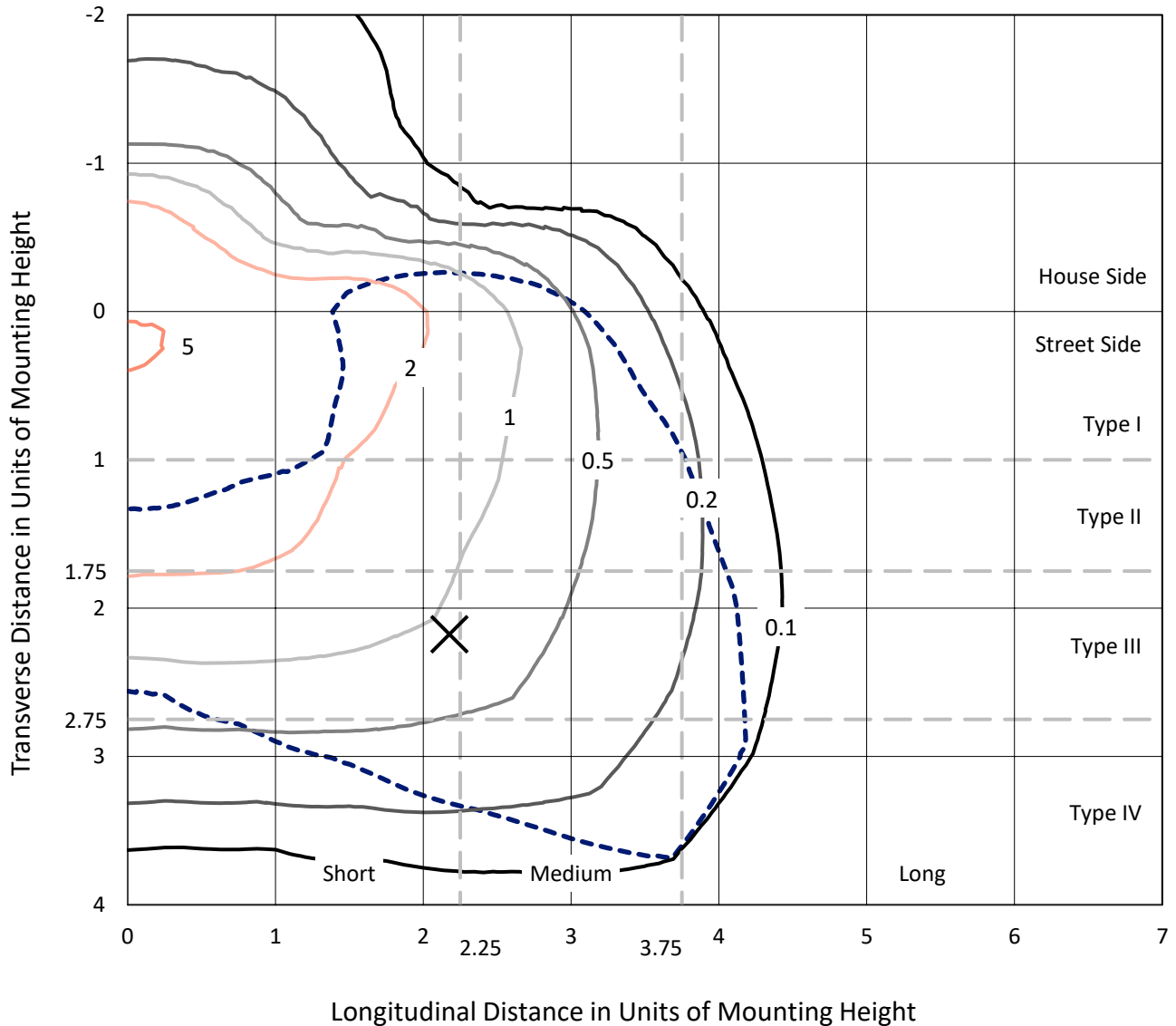
Lumens per Lamp: N/A  
Luminaire Lumens: 39395.9 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 464.2  
Input Voltage (V): 120  
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: P478409  
 CATALOG NUMBER: IFLD-S-SA6E-722-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

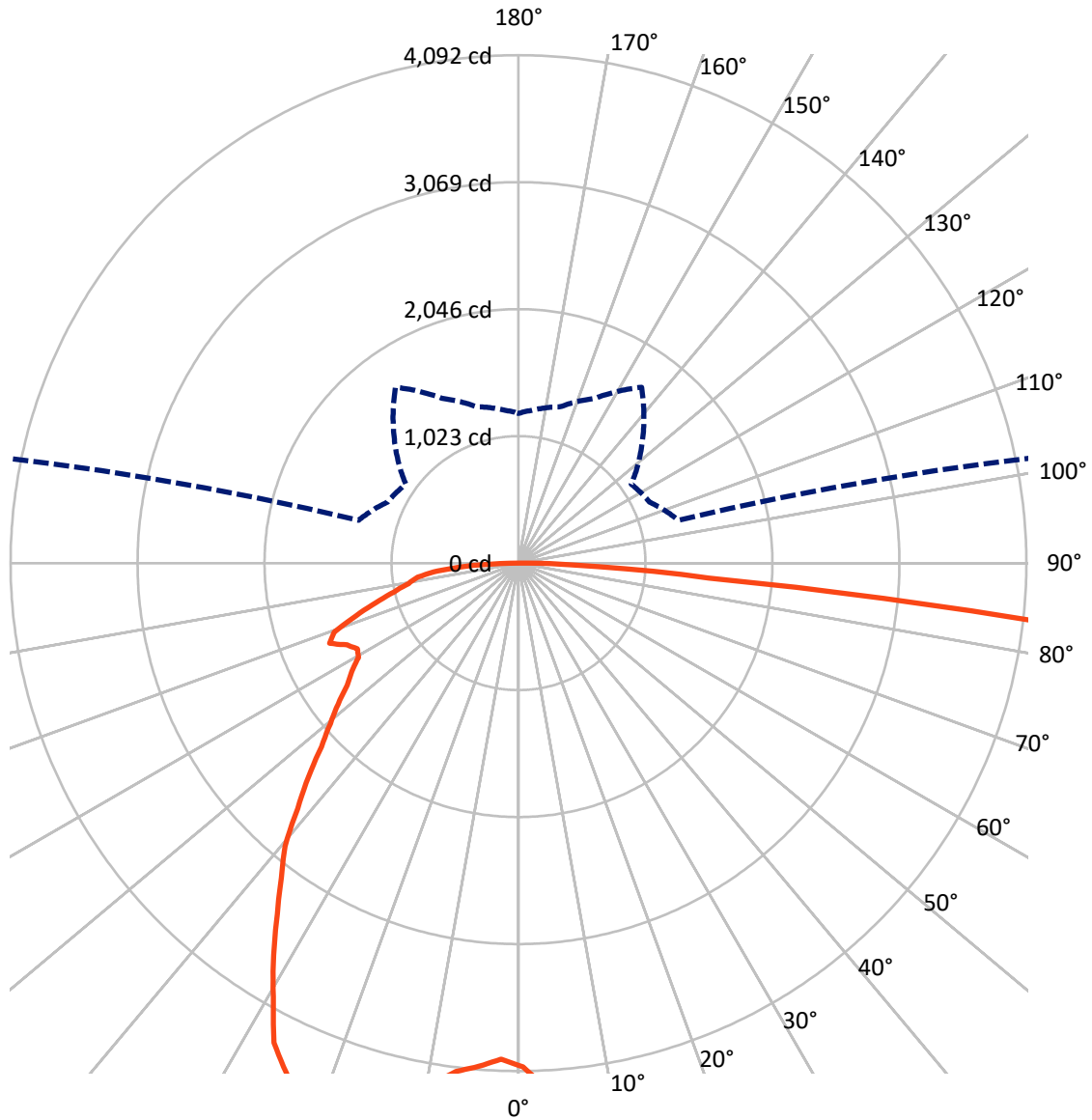
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P478409  
CATALOG NUMBER: IFLD-S-SA6E-722-U-T4W

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P478409

CATALOG NUMBER: IFLD-S-SA6E-722-U-T4W

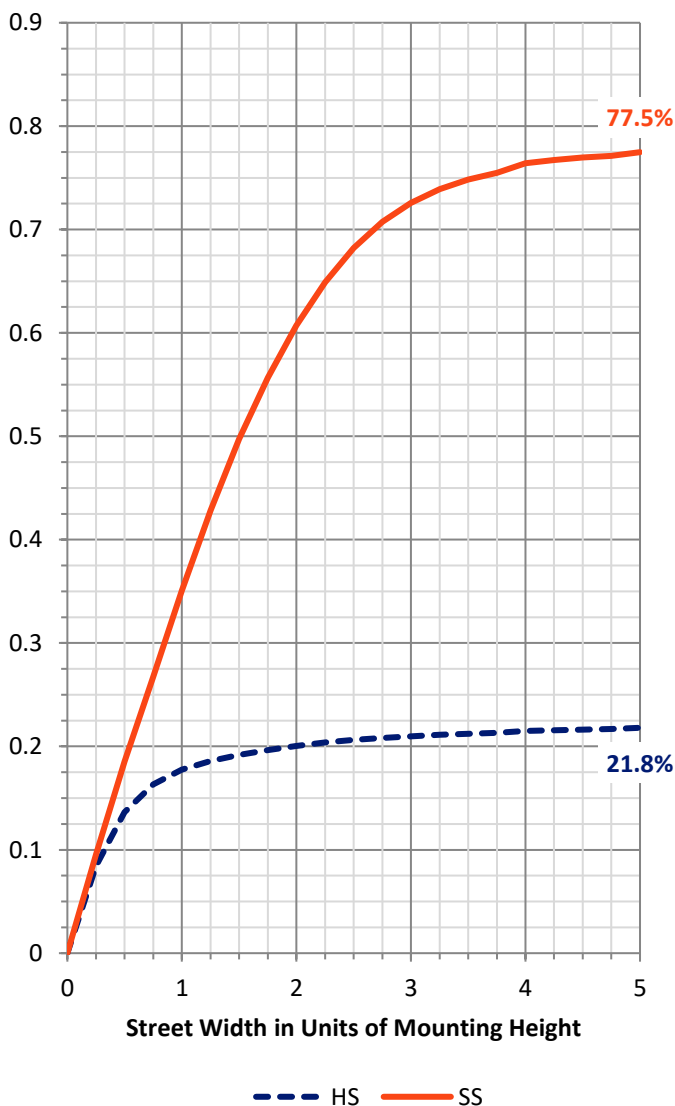
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8769.8   | 0.0    | 8769.8  |
|                    | % Fixture | 22.3     | 0.0    | 22.3    |
| <b>Street Side</b> | Lumens    | 30626.1  | 0.0    | 30626.1 |
|                    | % Fixture | 77.7     | 0.0    | 77.7    |
| <b>Total</b>       | Lumens    | 39395.9  | 0.0    | 39395.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 415.1   | 1.1       |
| 10°-20°   | 1381.2  | 3.5       |
| 20°-30°   | 2332.5  | 5.9       |
| 30°-40°   | 3227.8  | 8.2       |
| 40°-50°   | 4617.1  | 11.7      |
| 50°-60°   | 7446.8  | 18.9      |
| 60°-70°   | 10983.0 | 27.9      |
| 70°-80°   | 7975.5  | 20.2      |
| 80°-90°   | 1016.7  | 2.6       |
| 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°    | 39395.9 | 100.0     |
| 0°-180°   | 39395.9 | 100.0     |

**Coefficient of Utilization**

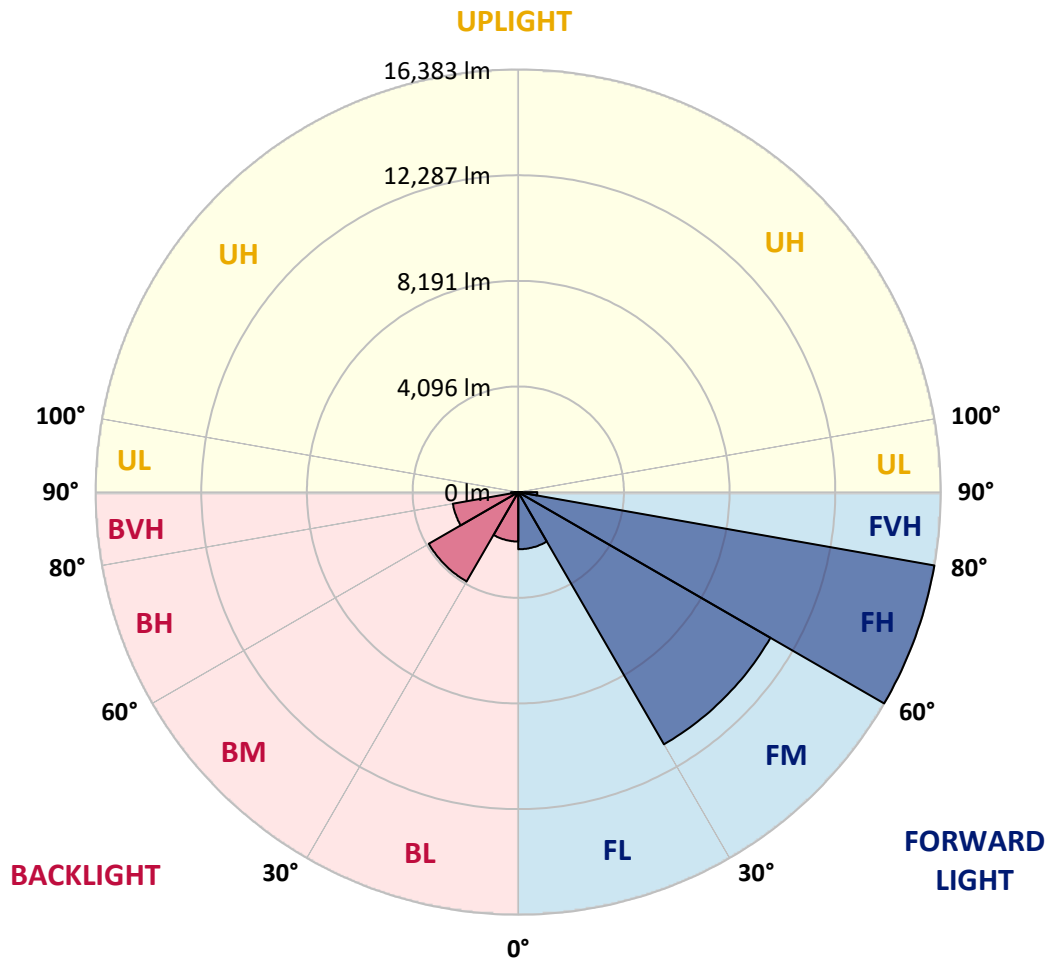


REPORT NUMBER: P478409  
 CATALOG NUMBER: IFLD-S-SA6E-722-U-T4W

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2214.1  | 5.6       |                         |      |         |
| FM (30°-60°)   | 11289.5 | 28.7      |                         |      |         |
| FH (60°-80°)   | 16382.6 | 41.6      |                         |      | G5      |
| FVH (80°-90°)  | 740.0   | 1.9       |                         |      | G4/750  |
| BL (0°-30°)    | 1914.8  | 4.9       | B3/2500                 |      |         |
| BM (30°-60°)   | 4002.2  | 10.2      | B3/5000                 |      |         |
| BH (60°-80°)   | 2576.0  | 6.5       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 276.7   | 0.7       |                         |      | 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 IV Short





REPORT NUMBER: P478409

CATALOG NUMBER: IFLD-S-SA6E-722-U-T4W

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 44°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4057.1  | 4057.1  | 4057.1  | 4057.1  | 4057.1  | 4057.1  | 4057.1  | 4057.1  | 4057.1  | 4057.1  | 4057.1  |
| 2.5°  | 4273.7  | 4299.2  | 4273.7  | 4269.5  | 4227.0  | 4197.3  | 4222.7  | 4184.5  | 4142.0  | 4125.0  | 4086.8  |
| 5°    | 4664.6  | 4668.8  | 4622.1  | 4626.3  | 4537.1  | 4443.6  | 4460.6  | 4345.9  | 4222.7  | 4176.0  | 4099.5  |
| 7.5°  | 5063.9  | 5017.2  | 4949.2  | 4927.9  | 4787.8  | 4685.8  | 4673.1  | 4571.1  | 4379.9  | 4273.7  | 4167.5  |
| 10°   | 5323.0  | 5340.0  | 5229.6  | 5136.1  | 5017.2  | 4894.0  | 4889.7  | 4698.5  | 4588.1  | 4430.9  | 4295.0  |
| 12.5° | 5552.4  | 5556.7  | 5463.2  | 5314.5  | 5165.8  | 5012.9  | 5034.2  | 4949.2  | 4762.3  | 4613.6  | 4477.6  |
| 15°   | 5730.9  | 5705.4  | 5603.4  | 5467.5  | 5310.3  | 5191.3  | 5178.6  | 5106.4  | 4949.2  | 4826.0  | 4600.8  |
| 17.5° | 5781.8  | 5769.1  | 5667.1  | 5522.7  | 5369.8  | 5280.5  | 5314.5  | 5195.6  | 5131.9  | 5021.4  | 4804.7  |
| 20°   | 5684.1  | 5654.4  | 5637.4  | 5476.0  | 5365.5  | 5357.0  | 5327.3  | 5352.8  | 5246.6  | 5144.6  | 4987.4  |
| 22.5° | 5505.7  | 5493.0  | 5484.5  | 5357.0  | 5306.0  | 5344.3  | 5395.3  | 5433.5  | 5416.5  | 5318.8  | 5140.4  |
| 25°   | 5323.0  | 5382.5  | 5327.3  | 5267.8  | 5340.0  | 5437.7  | 5425.0  | 5548.2  | 5548.2  | 5518.4  | 5369.8  |
| 27.5° | 5450.5  | 5412.2  | 5369.8  | 5340.0  | 5365.5  | 5518.4  | 5510.0  | 5658.6  | 5713.9  | 5658.6  | 5488.7  |
| 30°   | 5769.1  | 5730.9  | 5607.7  | 5476.0  | 5442.0  | 5607.7  | 5650.1  | 5781.8  | 5807.3  | 5671.4  | 5526.9  |
| 32.5° | 6368.1  | 6346.9  | 6151.4  | 5764.8  | 5556.7  | 5650.1  | 5671.4  | 5820.1  | 5798.8  | 5713.9  | 5654.4  |
| 35°   | 7256.0  | 7183.8  | 6911.9  | 6257.6  | 5798.8  | 5705.4  | 5650.1  | 5769.1  | 5849.8  | 5807.3  | 5752.1  |
| 37.5° | 8228.8  | 8148.1  | 7812.5  | 6984.1  | 6236.4  | 5854.1  | 5811.6  | 5909.3  | 6002.7  | 5981.5  | 5866.8  |
| 40°   | 9159.2  | 9159.2  | 8857.6  | 7893.2  | 6886.4  | 6215.2  | 6223.7  | 6113.2  | 6198.2  | 6159.9  | 6181.2  |
| 42.5° | 10076.8 | 10042.8 | 9919.6  | 8959.5  | 7583.1  | 6818.4  | 6682.5  | 6406.3  | 6559.3  | 6546.5  | 6576.3  |
| 45°   | 11007.2 | 10981.7 | 10947.7 | 9953.6  | 8581.4  | 7634.1  | 7561.8  | 7064.8  | 7205.0  | 7145.5  | 7273.0  |
| 47.5° | 11750.6 | 11780.3 | 11780.3 | 11062.4 | 9647.7  | 8721.6  | 8615.4  | 7829.5  | 8097.1  | 8126.9  | 8156.6  |
| 50°   | 12383.6 | 12396.3 | 12383.6 | 12120.2 | 10837.2 | 9966.3  | 9749.7  | 8951.0  | 9218.7  | 9452.3  | 9724.2  |
| 52.5° | 13258.7 | 13275.7 | 13216.2 | 13114.3 | 12451.6 | 11274.8 | 11032.7 | 10144.8 | 10692.8 | 10939.2 | 11427.7 |
| 55°   | 14337.8 | 14210.3 | 14099.9 | 14176.3 | 14002.2 | 12714.9 | 12464.3 | 11376.8 | 12200.9 | 12528.0 | 13505.1 |
| 57.5° | 14537.4 | 14647.9 | 14928.3 | 15535.8 | 15786.4 | 14116.9 | 13972.4 | 12889.1 | 13904.5 | 14189.1 | 15820.4 |
| 60°   | 15242.6 | 15060.0 | 15748.2 | 17065.1 | 17345.5 | 15943.6 | 15794.9 | 14545.9 | 15599.5 | 15896.9 | 17957.3 |
| 62.5° | 15705.7 | 15697.2 | 16716.8 | 18280.1 | 18917.4 | 17838.3 | 17536.7 | 16699.8 | 17430.5 | 17719.4 | 20285.3 |
| 65°   | 15569.8 | 15693.0 | 17502.7 | 18993.8 | 20230.1 | 19992.2 | 19818.0 | 18552.0 | 19516.4 | 19490.9 | 21801.9 |
| 67.5° | 14329.3 | 14677.6 | 17005.7 | 19507.9 | 22184.3 | 22617.6 | 22562.3 | 21156.2 | 21211.4 | 20671.9 | 22477.4 |
| 70°   | 12608.7 | 12489.8 | 14902.8 | 18972.6 | 23161.3 | 25731.5 | 25718.8 | 23093.4 | 22736.5 | 20931.0 | 20540.2 |
| 72°   | 9686.0  | 9554.3  | 11538.2 | 16292.0 | 22647.3 | 26976.3 | 27358.6 | 24435.8 | 22719.5 | 19856.2 | 16967.4 |
| 72.5° | 8793.8  | 8679.1  | 10654.6 | 15336.1 | 22078.0 | 27299.1 | 27120.7 | 24486.8 | 22541.1 | 19350.7 | 15850.1 |
| 75°   | 4048.6  | 3916.9  | 5323.0  | 9388.6  | 17222.3 | 24189.4 | 24796.9 | 22914.9 | 19686.3 | 15404.1 | 9494.8  |
| 77.5° | 1206.5  | 1168.3  | 1712.0  | 3789.4  | 10008.8 | 17821.3 | 18055.0 | 17290.3 | 13743.0 | 8437.0  | 3521.8  |
| 80°   | 671.2   | 675.5   | 883.6   | 1418.9  | 4401.2  | 10302.0 | 11143.1 | 10680.0 | 6741.9  | 2786.8  | 1172.5  |
| 82.5° | 373.8   | 395.1   | 552.3   | 841.1   | 2022.2  | 4728.3  | 5089.4  | 4906.7  | 2438.5  | 1308.5  | 641.5   |
| 85°   | 195.4   | 203.9   | 288.9   | 450.3   | 1147.0  | 1495.4  | 1537.9  | 1648.3  | 1266.0  | 892.1   | 344.1   |
| 87.5° | 76.5    | 76.5    | 106.2   | 186.9   | 424.8   | 463.1   | 416.3   | 505.5   | 726.4   | 577.8   | 169.9   |
| 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: P478409  
 CATALOG NUMBER: IFLD-S-SA6E-722-U-T4W

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4057.1  | 4057.1  | 4057.1 | 4057.1 | 4057.1 | 4057.1 | 4057.1 | 4057.1 | 4057.1 | 4057.1 | 4057.1 |
| 2.5°  | 4120.8  | 4086.8  | 4082.5 | 4027.3 | 4044.3 | 3997.6 | 4001.8 | 3993.3 | 3997.6 | 3989.1 | 3967.8 |
| 5°    | 4099.5  | 4074.1  | 4001.8 | 4048.6 | 4006.1 | 4065.6 | 4112.3 | 4095.3 | 4108.0 | 4103.8 | 4108.0 |
| 7.5°  | 4129.3  | 4095.3  | 4086.8 | 4061.3 | 4099.5 | 4125.0 | 4163.3 | 4269.5 | 4261.0 | 4273.7 | 4299.2 |
| 10°   | 4218.5  | 4180.3  | 4154.8 | 4193.0 | 4171.8 | 4252.5 | 4295.0 | 4350.2 | 4447.9 | 4452.1 | 4401.2 |
| 12.5° | 4392.7  | 4367.2  | 4316.2 | 4324.7 | 4396.9 | 4422.4 | 4447.9 | 4481.9 | 4545.6 | 4532.9 | 4579.6 |
| 15°   | 4592.3  | 4537.1  | 4507.4 | 4498.9 | 4515.9 | 4545.6 | 4541.4 | 4575.3 | 4609.3 | 4639.1 | 4626.3 |
| 17.5° | 4736.8  | 4664.6  | 4673.1 | 4715.5 | 4711.3 | 4702.8 | 4647.6 | 4630.6 | 4647.6 | 4664.6 | 4656.1 |
| 20°   | 4885.5  | 4894.0  | 4830.2 | 4792.0 | 4775.0 | 4690.0 | 4647.6 | 4596.6 | 4545.6 | 4571.1 | 4609.3 |
| 22.5° | 5072.4  | 5034.2  | 4940.7 | 4826.0 | 4741.0 | 4690.0 | 4558.3 | 4469.1 | 4469.1 | 4494.6 | 4481.9 |
| 25°   | 5284.8  | 5204.1  | 5042.6 | 4834.5 | 4728.3 | 4511.6 | 4418.2 | 4405.4 | 4371.4 | 4409.7 | 4426.7 |
| 27.5° | 5450.5  | 5378.3  | 5157.4 | 4804.7 | 4511.6 | 4337.4 | 4282.2 | 4265.2 | 4320.4 | 4324.7 | 4392.7 |
| 30°   | 5518.4  | 5497.2  | 5174.3 | 4728.3 | 4290.7 | 4010.3 | 3976.3 | 4052.8 | 4112.3 | 4201.5 | 4205.7 |
| 32.5° | 5607.7  | 5616.2  | 5199.8 | 4549.9 | 4001.8 | 3721.4 | 3670.5 | 3763.9 | 3933.9 | 4006.1 | 4061.3 |
| 35°   | 5756.4  | 5798.8  | 5178.6 | 4328.9 | 3696.0 | 3428.3 | 3419.8 | 3445.3 | 3611.0 | 3738.4 | 3810.7 |
| 37.5° | 6015.5  | 6007.0  | 5174.3 | 4065.6 | 3453.8 | 3173.4 | 3105.5 | 3114.0 | 3224.4 | 3330.6 | 3317.9 |
| 40°   | 6363.8  | 6329.9  | 5161.6 | 3721.4 | 3139.4 | 2956.8 | 2842.1 | 2799.6 | 2791.1 | 2761.3 | 2769.8 |
| 42.5° | 6839.6  | 6771.7  | 5157.4 | 3373.1 | 2854.8 | 2659.4 | 2578.7 | 2468.2 | 2387.5 | 2234.6 | 2243.1 |
| 45°   | 7502.4  | 7383.4  | 5046.9 | 3046.0 | 2574.4 | 2413.0 | 2289.8 | 2209.1 | 2034.9 | 1843.7 | 1843.7 |
| 47.5° | 8526.2  | 8139.6  | 5051.1 | 2684.9 | 2302.5 | 2170.8 | 2085.9 | 1945.7 | 1758.8 | 1605.8 | 1588.8 |
| 50°   | 10034.3 | 9150.7  | 4906.7 | 2400.2 | 2081.6 | 1992.4 | 1903.2 | 1741.8 | 1563.3 | 1457.1 | 1469.9 |
| 52.5° | 11980.0 | 10658.8 | 4902.5 | 2145.4 | 1907.5 | 1843.7 | 1746.0 | 1601.6 | 1469.9 | 1401.9 | 1376.4 |
| 55°   | 14299.5 | 12655.5 | 5055.4 | 1937.2 | 1729.0 | 1695.0 | 1652.6 | 1533.6 | 1406.2 | 1346.7 | 1342.4 |
| 57.5° | 16674.3 | 14605.4 | 5301.8 | 1788.5 | 1576.1 | 1601.6 | 1571.8 | 1478.4 | 1376.4 | 1308.5 | 1300.0 |
| 60°   | 18785.7 | 16151.8 | 4804.7 | 1610.1 | 1440.1 | 1495.4 | 1537.9 | 1457.1 | 1401.9 | 1397.7 | 1367.9 |
| 62.5° | 20378.8 | 16814.5 | 3653.5 | 1474.1 | 1367.9 | 1469.9 | 1584.6 | 1635.6 | 1610.1 | 1644.1 | 1648.3 |
| 65°   | 20960.8 | 16415.2 | 2515.0 | 1401.9 | 1312.7 | 1529.4 | 1784.3 | 1767.3 | 1618.6 | 1554.9 | 1588.8 |
| 67.5° | 20145.1 | 14796.6 | 1865.0 | 1317.0 | 1274.5 | 1652.6 | 1899.0 | 1686.5 | 1461.4 | 1452.9 | 1427.4 |
| 70°   | 17324.3 | 12540.8 | 1520.9 | 1227.7 | 1210.7 | 1584.6 | 1848.0 | 1563.3 | 1376.4 | 1321.2 | 1295.7 |
| 72°   | 13802.5 | 9766.7  | 1333.9 | 1164.0 | 1108.8 | 1414.7 | 1729.0 | 1465.6 | 1304.2 | 1236.2 | 1206.5 |
| 72.5° | 12600.2 | 9053.0  | 1308.5 | 1134.3 | 1087.5 | 1376.4 | 1669.6 | 1435.9 | 1287.2 | 1227.7 | 1181.0 |
| 75°   | 6911.9  | 4634.8  | 1151.3 | 1040.8 | 917.6  | 1189.5 | 1546.4 | 1346.7 | 1215.0 | 1130.0 | 1121.5 |
| 77.5° | 2570.2  | 1797.0  | 994.1  | 921.9  | 794.4  | 1028.1 | 1406.2 | 1278.7 | 1104.5 | 998.3  | 977.1  |
| 80°   | 985.6   | 947.4   | 811.4  | 777.4  | 667.0  | 900.6  | 1295.7 | 1147.0 | 938.9  | 832.7  | 798.7  |
| 82.5° | 599.0   | 552.3   | 616.0  | 607.5  | 509.8  | 819.9  | 1219.2 | 1074.8 | 832.7  | 675.5  | 654.2  |
| 85°   | 327.1   | 327.1   | 429.1  | 412.1  | 356.9  | 654.2  | 921.9  | 713.7  | 526.8  | 433.3  | 441.8  |
| 87.5° | 144.4   | 169.9   | 229.4  | 216.7  | 195.4  | 369.6  | 450.3  | 378.1  | 263.4  | 178.4  | 191.2  |
| 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)