

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: McGRAW-EDISON

Report Number: P595848

Luminaire Tested: **ISW-PA1F-727-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595848  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISW-PA1F-727-U-T2R  
Description: IMPACT ELITE LED WEDGE LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9482 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

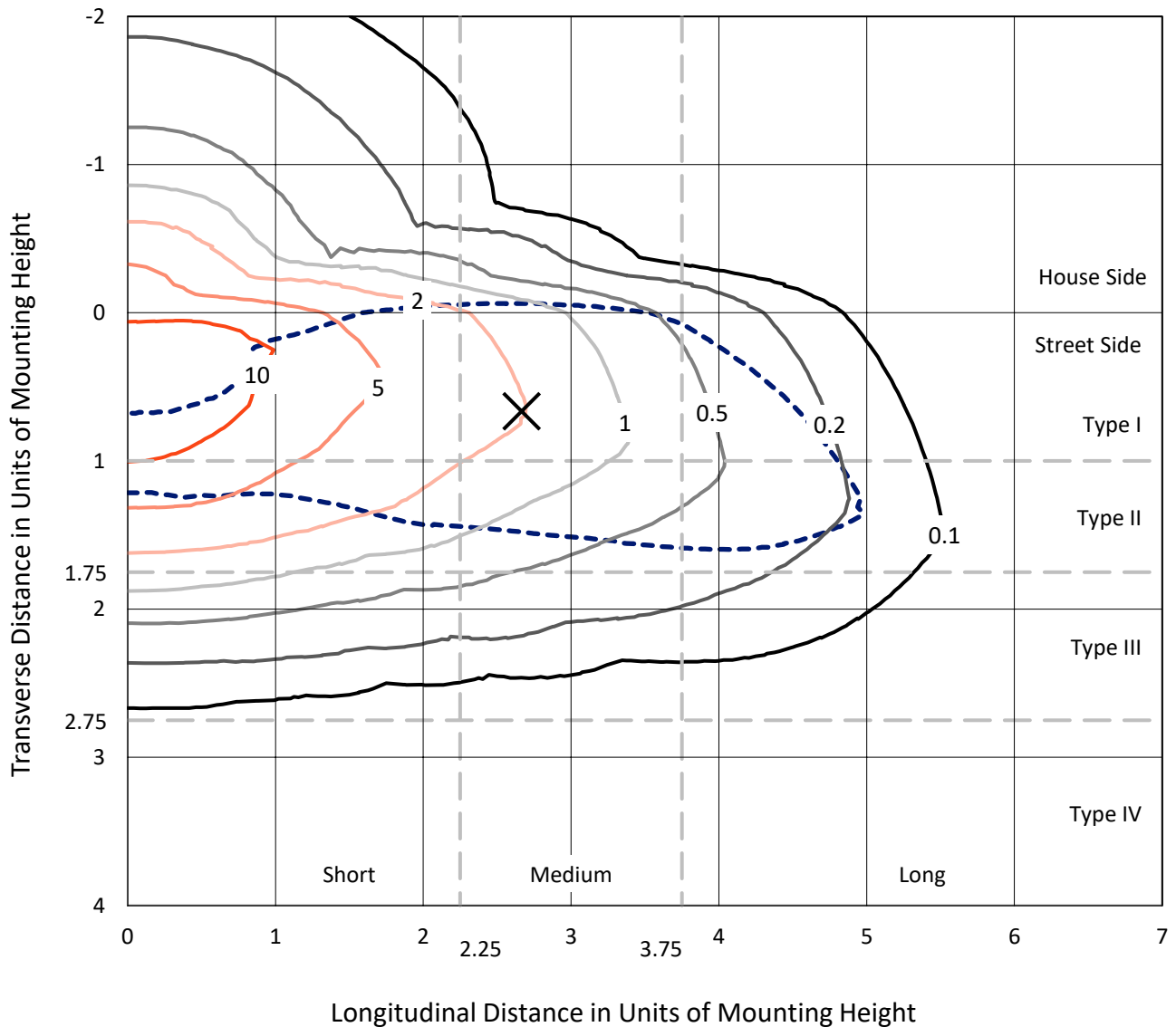
Input Watts (W): 93.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P595848  
 CATALOG NUMBER: ISW-PA1F-727-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

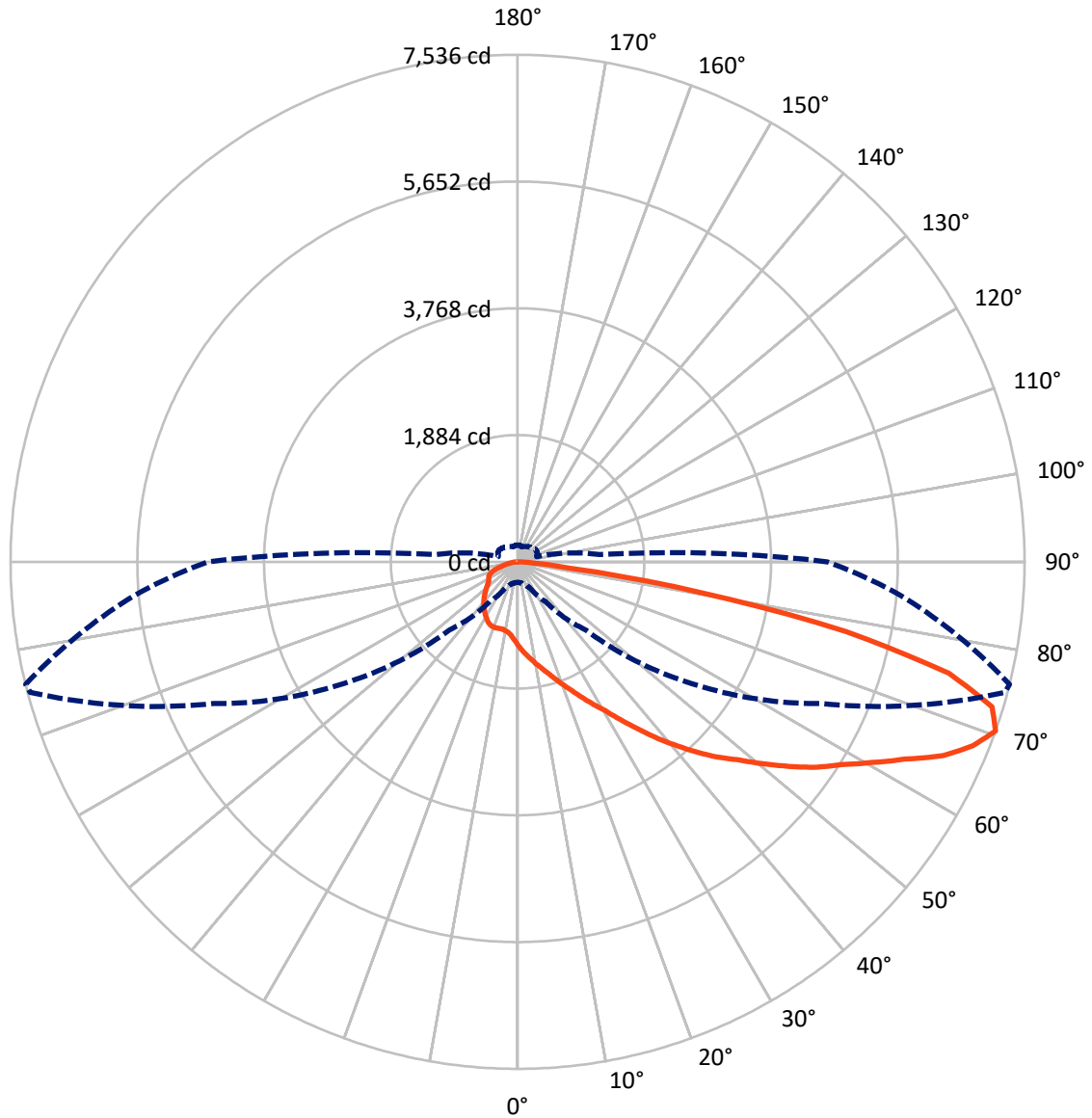
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 15 fc  
 Type II - Medium - N/A

REPORT NUMBER: P595848  
CATALOG NUMBER: ISW-PA1F-727-U-T2R

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P595848  
 CATALOG NUMBER: ISW-PA1F-727-U-T2R

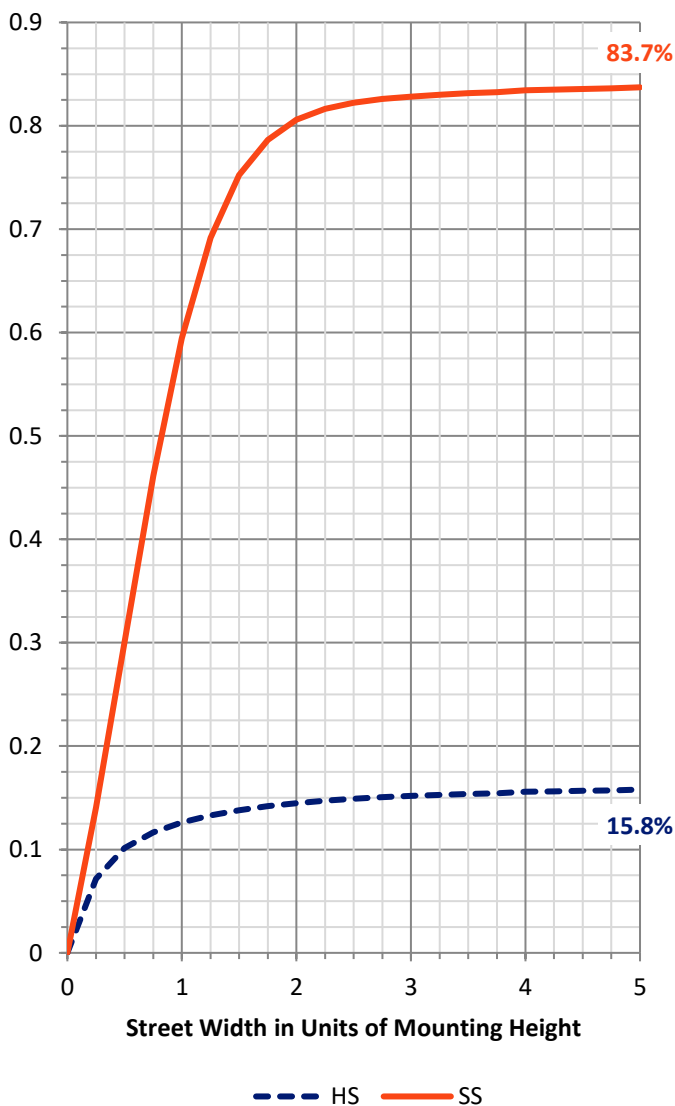
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1520.8   | 0.0    | 1520.8 |
|                    | % Fixture | 16.0     | 0.0    | 16.0   |
| <b>Street Side</b> | Lumens    | 7961.2   | 0.0    | 7961.2 |
|                    | % Fixture | 84.0     | 0.0    | 84.0   |
| <b>Total</b>       | Lumens    | 9482.0   | 0.0    | 9482.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 121.2  | 1.3       |
| 10°-20°   | 400.1  | 4.2       |
| 20°-30°   | 737.3  | 7.8       |
| 30°-40°   | 1235.2 | 13.0      |
| 40°-50°   | 1755.2 | 18.5      |
| 50°-60°   | 2026.5 | 21.4      |
| 60°-70°   | 1862.9 | 19.6      |
| 70°-80°   | 1174.6 | 12.4      |
| 80°-90°   | 168.9  | 1.8       |
| 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°    | 9482.0 | 100.0     |
| 0°-180°   | 9482.0 | 100.0     |

**Coefficient of Utilization**

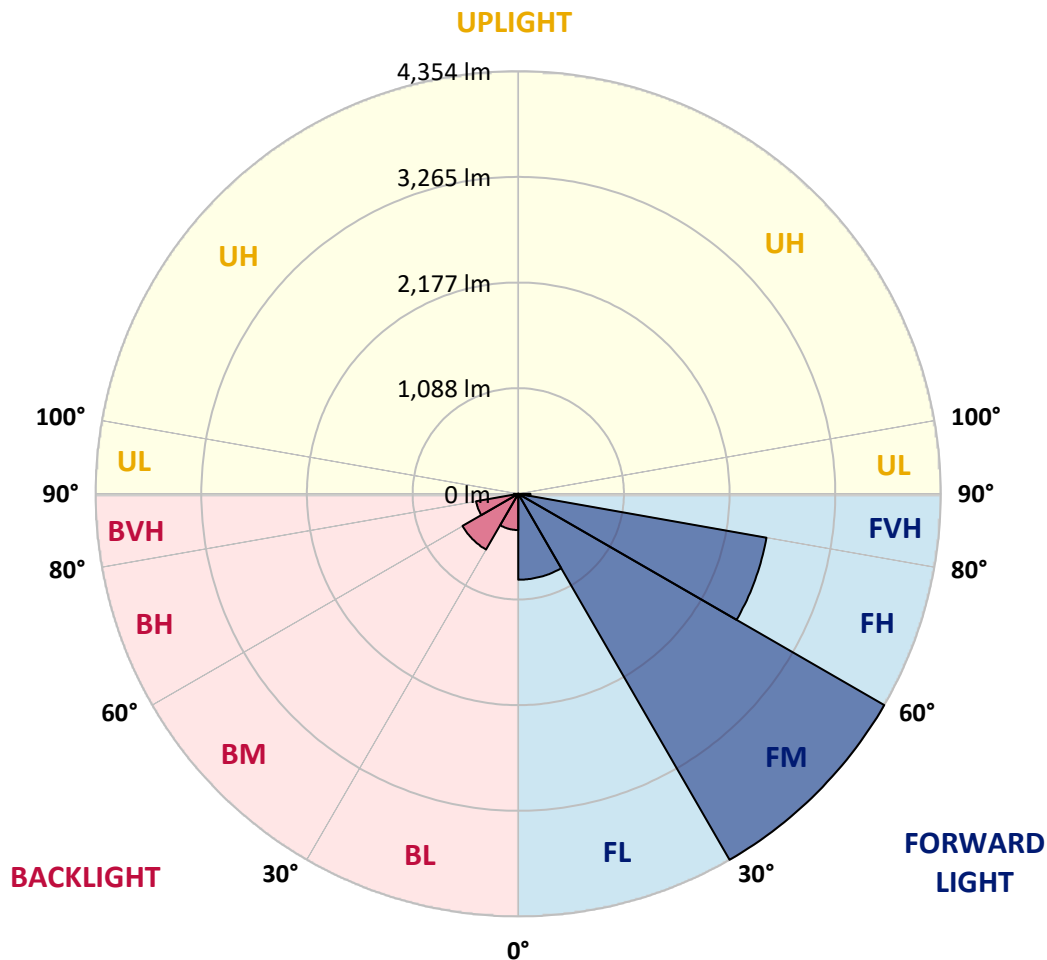


REPORT NUMBER: P595848  
 CATALOG NUMBER: ISW-PA1F-727-U-T2R

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 885.3  | 9.3       |                         |      |         |
| FM (30°-60°)   | 4353.9 | 45.9      |                         |      |         |
| FH (60°-80°)   | 2596.8 | 27.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 125.2  | 1.3       |                         |      | G2/225  |
| BL (0°-30°)    | 373.3  | 3.9       | B1/500                  |      |         |
| BM (30°-60°)   | 663.0  | 7.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 440.8  | 4.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 43.7   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**  
 Type II Medium





REPORT NUMBER: P595848  
 CATALOG NUMBER: ISW-PA1F-727-U-T2R

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1243.9 | 1243.9 | 1243.9 | 1243.9 | 1243.9 | 1243.9 | 1243.9 | 1243.9 | 1243.9 | 1243.9 | 1243.9 |
| 2.5°  | 1497.2 | 1495.0 | 1488.1 | 1476.7 | 1467.6 | 1440.2 | 1403.7 | 1371.7 | 1323.8 | 1319.2 | 1271.3 |
| 5°    | 1631.9 | 1622.8 | 1622.8 | 1611.4 | 1599.9 | 1570.3 | 1524.6 | 1467.6 | 1399.1 | 1394.5 | 1303.2 |
| 7.5°  | 1695.8 | 1698.1 | 1693.5 | 1684.4 | 1686.7 | 1661.6 | 1620.5 | 1563.4 | 1469.9 | 1465.3 | 1346.6 |
| 10°   | 1787.1 | 1784.8 | 1775.7 | 1768.8 | 1766.6 | 1743.7 | 1707.2 | 1654.7 | 1556.6 | 1547.5 | 1396.8 |
| 12.5° | 1876.1 | 1869.3 | 1871.6 | 1869.3 | 1864.7 | 1841.9 | 1807.6 | 1755.2 | 1634.2 | 1629.6 | 1458.4 |
| 15°   | 1926.3 | 1924.0 | 1940.0 | 1944.6 | 1962.8 | 1942.3 | 1912.6 | 1853.3 | 1743.7 | 1725.5 | 1531.5 |
| 17.5° | 1958.3 | 1956.0 | 1972.0 | 2008.5 | 2042.7 | 2042.7 | 2033.6 | 1969.7 | 1848.7 | 1835.0 | 1613.6 |
| 20°   | 2013.1 | 2022.2 | 2049.6 | 2079.2 | 2129.5 | 2138.6 | 2136.3 | 2108.9 | 1969.7 | 1956.0 | 1704.9 |
| 22.5° | 2122.6 | 2118.0 | 2140.9 | 2186.5 | 2232.2 | 2245.9 | 2248.1 | 2248.1 | 2108.9 | 2083.8 | 1798.5 |
| 25°   | 2357.7 | 2346.3 | 2328.0 | 2323.5 | 2378.2 | 2376.0 | 2369.1 | 2385.1 | 2255.0 | 2236.7 | 1905.8 |
| 27.5° | 2805.0 | 2779.9 | 2709.2 | 2567.7 | 2535.7 | 2547.1 | 2512.9 | 2515.2 | 2421.6 | 2398.8 | 1997.1 |
| 30°   | 3229.6 | 3218.2 | 3152.0 | 2980.8 | 2800.5 | 2736.6 | 2677.2 | 2652.1 | 2606.5 | 2567.7 | 2095.2 |
| 32.5° | 3613.0 | 3615.3 | 3535.4 | 3348.3 | 3163.4 | 2962.5 | 2859.8 | 2807.3 | 2825.6 | 2791.4 | 2229.9 |
| 35°   | 3873.2 | 3852.7 | 3802.4 | 3676.9 | 3476.1 | 3284.3 | 3088.1 | 2971.7 | 3069.8 | 3031.0 | 2364.5 |
| 37.5° | 4026.1 | 4010.1 | 3969.1 | 3880.0 | 3779.6 | 3594.7 | 3346.0 | 3167.9 | 3359.7 | 3302.6 | 2535.7 |
| 40°   | 4103.7 | 4080.9 | 4039.8 | 4003.3 | 3955.4 | 3854.9 | 3635.8 | 3391.6 | 3624.4 | 3574.2 | 2704.6 |
| 42.5° | 4112.8 | 4096.9 | 4074.0 | 4055.8 | 4071.8 | 4058.1 | 3918.8 | 3651.8 | 3902.9 | 3848.1 | 2898.6 |
| 45°   | 4106.0 | 4117.4 | 4090.0 | 4058.1 | 4090.0 | 4206.4 | 4206.4 | 3912.0 | 4179.0 | 4138.0 | 3083.5 |
| 47.5° | 4110.6 | 4099.2 | 4090.0 | 4080.9 | 4085.5 | 4245.2 | 4405.0 | 4156.2 | 4443.8 | 4395.9 | 3300.3 |
| 50°   | 3921.1 | 3937.1 | 4014.7 | 4048.9 | 4069.5 | 4254.4 | 4564.8 | 4421.0 | 4772.5 | 4713.1 | 3542.3 |
| 52.5° | 3318.6 | 3327.7 | 3681.5 | 3937.1 | 4019.3 | 4217.8 | 4676.6 | 4715.4 | 5096.6 | 5050.9 | 3802.4 |
| 55°   | 2556.3 | 2604.2 | 2939.7 | 3565.1 | 3905.2 | 4156.2 | 4710.8 | 4907.1 | 5427.5 | 5391.0 | 4064.9 |
| 57.5° | 2104.4 | 2111.2 | 2305.2 | 2864.4 | 3544.5 | 4099.2 | 4745.1 | 5082.9 | 5724.2 | 5683.1 | 4338.8 |
| 60°   | 1746.0 | 1730.0 | 1848.7 | 2209.3 | 2944.3 | 3870.9 | 4751.9 | 5222.1 | 6068.8 | 6055.2 | 4621.8 |
| 62.5° | 1282.7 | 1301.0 | 1415.1 | 1720.9 | 2302.9 | 3407.6 | 4717.7 | 5340.8 | 6479.7 | 6461.4 | 4936.8 |
| 65°   | 787.4  | 810.2  | 949.5  | 1230.2 | 1743.7 | 2704.6 | 4494.0 | 5402.4 | 6911.0 | 6952.1 | 5276.9 |
| 67.5° | 417.7  | 433.7  | 515.8  | 744.1  | 1196.0 | 2061.0 | 3955.4 | 5324.8 | 7276.2 | 7294.5 | 5603.2 |
| 70°   | 305.8  | 308.1  | 335.5  | 420.0  | 721.2  | 1433.3 | 3149.7 | 4987.0 | 7499.9 | 7536.4 | 5710.5 |
| 72.5° | 267.0  | 269.3  | 280.7  | 301.3  | 392.6  | 874.2  | 2257.3 | 4398.1 | 7406.3 | 7374.4 | 5530.2 |
| 75°   | 241.9  | 241.9  | 251.1  | 257.9  | 287.6  | 483.9  | 1383.1 | 3599.3 | 6691.9 | 6621.2 | 4715.4 |
| 77.5° | 207.7  | 207.7  | 216.8  | 226.0  | 248.8  | 312.7  | 723.5  | 2668.1 | 5117.1 | 4996.1 | 3225.0 |
| 80°   | 166.6  | 166.6  | 178.0  | 189.4  | 219.1  | 235.1  | 353.8  | 1784.8 | 2926.0 | 2748.0 | 1467.6 |
| 82.5° | 114.1  | 123.2  | 143.8  | 157.5  | 182.6  | 166.6  | 207.7  | 771.4  | 922.1  | 798.8  | 330.9  |
| 85°   | 68.5   | 73.0   | 102.7  | 118.7  | 136.9  | 89.0   | 127.8  | 296.7  | 276.2  | 241.9  | 75.3   |
| 87.5° | 6.8    | 11.4   | 41.1   | 47.9   | 47.9   | 25.1   | 54.8   | 70.8   | 79.9   | 82.2   | 18.3   |
| 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: P595848  
 CATALOG NUMBER: ISW-PA1F-727-U-T2R

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1243.9 | 1243.9 | 1243.9 | 1243.9 | 1243.9 | 1243.9 | 1243.9 | 1243.9 | 1243.9 | 1243.9 | 1243.9 |
| 2.5°  | 1243.9 | 1216.5 | 1164.0 | 1116.1 | 1068.2 | 1036.2 | 1004.2 | 992.8  | 976.9  | 965.4  | 974.6  |
| 5°    | 1255.3 | 1198.2 | 1097.8 | 1013.4 | 956.3  | 913.0  | 892.4  | 881.0  | 871.9  | 869.6  | 867.3  |
| 7.5°  | 1269.0 | 1184.6 | 1049.9 | 956.3  | 901.5  | 881.0  | 876.4  | 876.4  | 876.4  | 878.7  | 881.0  |
| 10°   | 1298.7 | 1189.1 | 1024.8 | 924.4  | 894.7  | 890.1  | 892.4  | 901.5  | 901.5  | 903.8  | 903.8  |
| 12.5° | 1332.9 | 1200.5 | 1006.5 | 919.8  | 901.5  | 903.8  | 906.1  | 910.7  | 910.7  | 917.5  | 915.2  |
| 15°   | 1383.1 | 1223.4 | 1004.2 | 924.4  | 908.4  | 903.8  | 903.8  | 901.5  | 901.5  | 901.5  | 906.1  |
| 17.5° | 1447.0 | 1255.3 | 1006.5 | 924.4  | 901.5  | 892.4  | 885.6  | 878.7  | 869.6  | 874.2  | 869.6  |
| 20°   | 1510.9 | 1294.1 | 1006.5 | 913.0  | 883.3  | 860.5  | 839.9  | 828.5  | 817.1  | 814.8  | 817.1  |
| 22.5° | 1590.8 | 1339.8 | 995.1  | 887.8  | 844.5  | 812.5  | 782.9  | 766.9  | 748.6  | 741.8  | 737.2  |
| 25°   | 1659.3 | 1376.3 | 972.3  | 851.3  | 801.1  | 755.5  | 716.7  | 689.3  | 666.5  | 661.9  | 661.9  |
| 27.5° | 1730.0 | 1408.2 | 938.1  | 805.7  | 739.5  | 689.3  | 645.9  | 611.7  | 588.9  | 586.6  | 584.3  |
| 30°   | 1796.2 | 1435.6 | 892.4  | 755.5  | 684.7  | 625.4  | 575.2  | 545.5  | 524.9  | 513.5  | 506.7  |
| 32.5° | 1883.0 | 1472.1 | 849.0  | 705.3  | 620.8  | 561.5  | 515.8  | 490.7  | 463.3  | 445.1  | 438.2  |
| 35°   | 1992.5 | 1515.5 | 801.1  | 650.5  | 563.7  | 504.4  | 477.0  | 440.5  | 406.3  | 385.7  | 378.9  |
| 37.5° | 2115.8 | 1577.1 | 750.9  | 593.4  | 506.7  | 463.3  | 447.3  | 390.3  | 353.8  | 346.9  | 344.6  |
| 40°   | 2268.7 | 1636.5 | 693.8  | 534.1  | 451.9  | 440.5  | 413.1  | 353.8  | 335.5  | 333.2  | 330.9  |
| 42.5° | 2421.6 | 1700.4 | 639.1  | 474.7  | 408.5  | 413.1  | 374.3  | 344.6  | 328.7  | 324.1  | 321.8  |
| 45°   | 2599.6 | 1764.3 | 584.3  | 422.2  | 374.3  | 374.3  | 353.8  | 335.5  | 321.8  | 317.3  | 317.3  |
| 47.5° | 2786.8 | 1828.2 | 524.9  | 376.6  | 349.2  | 335.5  | 337.8  | 324.1  | 315.0  | 310.4  | 308.1  |
| 50°   | 3021.9 | 1889.8 | 470.2  | 344.6  | 333.2  | 315.0  | 321.8  | 312.7  | 308.1  | 303.6  | 301.3  |
| 52.5° | 3243.3 | 1917.2 | 420.0  | 326.4  | 324.1  | 305.8  | 308.1  | 303.6  | 301.3  | 294.4  | 292.1  |
| 55°   | 3460.1 | 1910.4 | 381.2  | 317.3  | 312.7  | 303.6  | 299.0  | 296.7  | 294.4  | 287.6  | 285.3  |
| 57.5° | 3702.0 | 1901.2 | 356.1  | 315.0  | 305.8  | 296.7  | 296.7  | 289.9  | 280.7  | 280.7  | 280.7  |
| 60°   | 3953.1 | 1871.6 | 344.6  | 315.0  | 303.6  | 296.7  | 292.1  | 285.3  | 276.2  | 278.5  | 276.2  |
| 62.5° | 4236.1 | 1814.5 | 337.8  | 321.8  | 305.8  | 294.4  | 289.9  | 280.7  | 269.3  | 271.6  | 269.3  |
| 65°   | 4484.9 | 1698.1 | 333.2  | 328.7  | 310.4  | 296.7  | 285.3  | 273.9  | 260.2  | 262.5  | 260.2  |
| 67.5° | 4653.8 | 1501.8 | 319.5  | 333.2  | 317.3  | 294.4  | 280.7  | 264.8  | 246.5  | 255.6  | 253.3  |
| 70°   | 4605.8 | 1221.1 | 294.4  | 324.1  | 324.1  | 296.7  | 273.9  | 253.3  | 232.8  | 251.1  | 244.2  |
| 72.5° | 4233.8 | 917.5  | 246.5  | 292.1  | 319.5  | 296.7  | 260.2  | 235.1  | 216.8  | 228.2  | 214.5  |
| 75°   | 3476.1 | 623.1  | 196.3  | 232.8  | 299.0  | 299.0  | 248.8  | 216.8  | 194.0  | 187.2  | 182.6  |
| 77.5° | 2168.3 | 388.0  | 152.9  | 171.2  | 251.1  | 296.7  | 237.4  | 194.0  | 162.0  | 157.5  | 152.9  |
| 80°   | 858.2  | 207.7  | 121.0  | 123.2  | 184.9  | 271.6  | 221.4  | 164.3  | 130.1  | 125.5  | 116.4  |
| 82.5° | 196.3  | 105.0  | 84.4   | 82.2   | 114.1  | 221.4  | 200.8  | 130.1  | 100.4  | 100.4  | 84.4   |
| 85°   | 59.3   | 54.8   | 54.8   | 52.5   | 57.1   | 114.1  | 155.2  | 89.0   | 68.5   | 47.9   | 41.1   |
| 87.5° | 16.0   | 22.8   | 20.5   | 18.3   | 18.3   | 16.0   | 50.2   | 22.8   | 13.7   | 6.8    | 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    |

(END OF REPORT)