

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: P479581

Luminaire Tested: **IFLD-M-SA4B-722-U-5WQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479581  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-722-U-5WQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens  
Light Source: (64) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

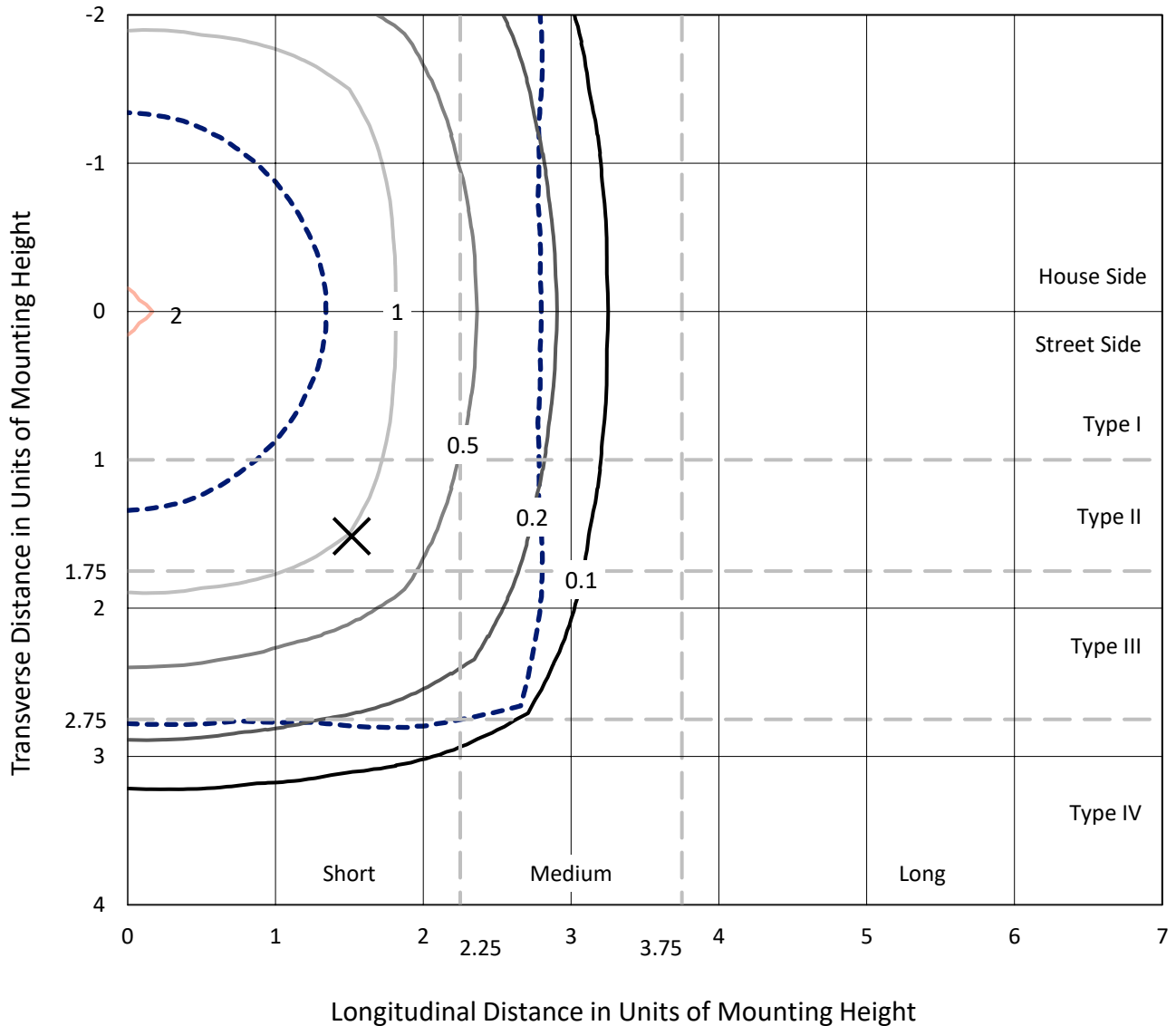
Lumens per Lamp: N/A  
Luminaire Lumens: 17264.2 lumens  
Efficiency: N/A  
Efficacy: 103.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 166.1  
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

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### Iso-Footcandle Lines of Horizontal Illumination

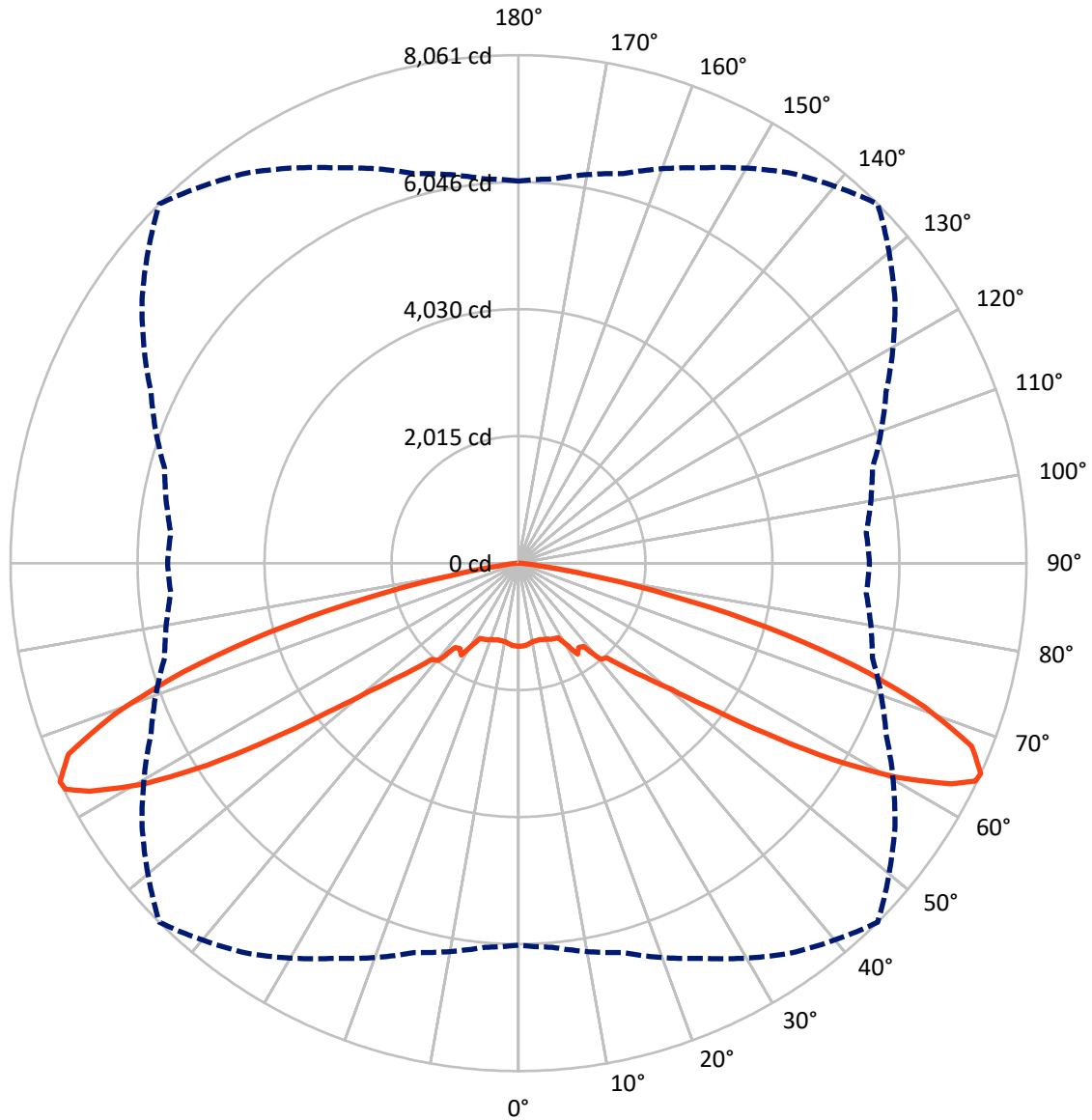
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8632.1   | 0.0    | 8632.1  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 8632.1   | 0.0    | 8632.1  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 17264.2  | 0.0    | 17264.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 123.9   | 0.7       |
| 10°-20°   | 363.9   | 2.1       |
| 20°-30°   | 629.8   | 3.6       |
| 30°-40°   | 1047.3  | 6.1       |
| 40°-50°   | 1889.4  | 10.9      |
| 50°-60°   | 4209.0  | 24.4      |
| 60°-70°   | 6272.7  | 36.3      |
| 70°-80°   | 2599.5  | 15.1      |
| 80°-90°   | 128.8   | 0.7       |
| 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°    | 17264.2 | 100.0     |
| 0°-180°   | 17264.2 | 100.0     |

**Coefficient of Utilization**



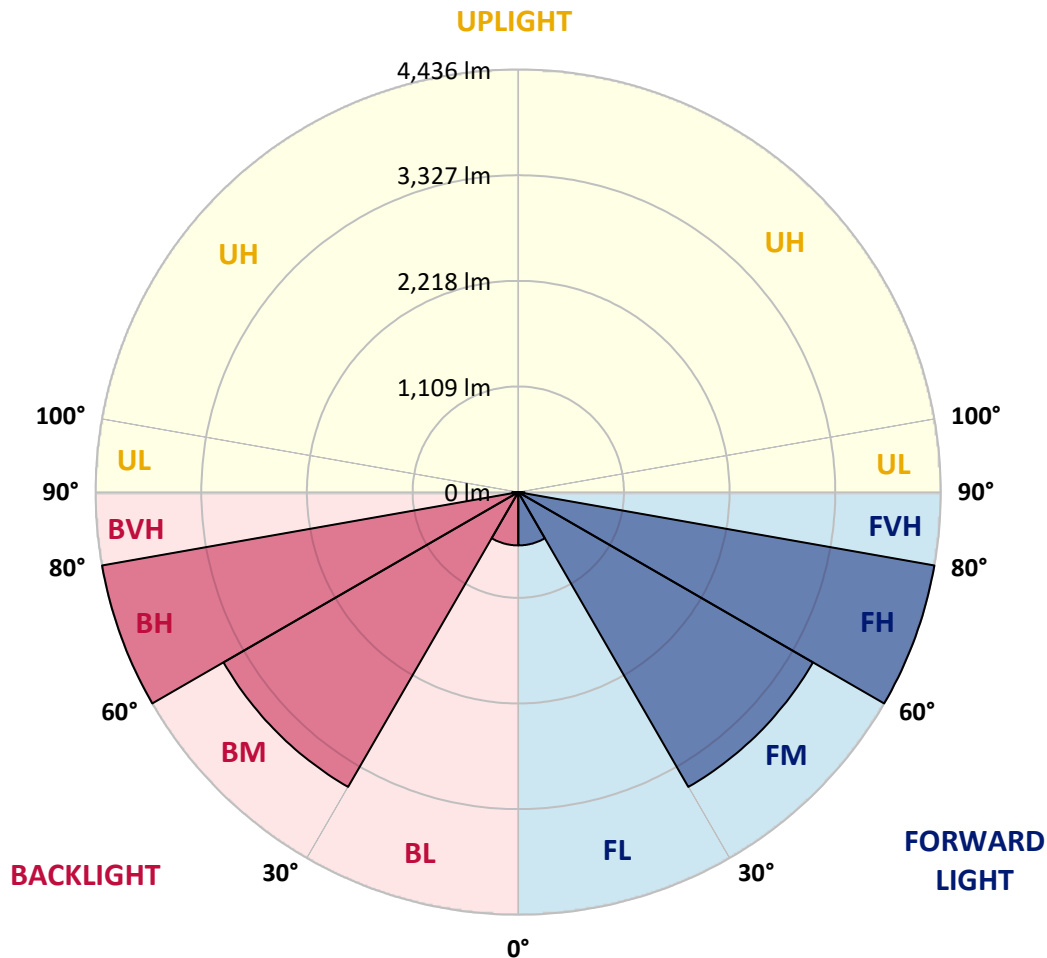
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 558.8  | 3.2       |                         |      |         |
| FM (30°-60°)   | 3572.8 | 20.7      |                         |      |         |
| FH (60°-80°)   | 4436.1 | 25.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 64.4   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 558.8  | 3.2       | B2/1000                 |      |         |
| BM (30°-60°)   | 3572.8 | 20.7      | B3/5000                 |      |         |
| BH (60°-80°)   | 4436.1 | 25.7      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 64.4   | 0.4       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1320.0 | 1320.0 | 1320.0 | 1320.0 | 1320.0 | 1320.0 | 1320.0 | 1320.0 | 1320.0 | 1320.0 | 1320.0 |
| 2.5°  | 1304.7 | 1308.5 | 1306.6 | 1306.6 | 1312.3 | 1316.1 | 1318.0 | 1337.1 | 1329.5 | 1335.2 | 1329.5 |
| 5°    | 1308.5 | 1308.5 | 1312.3 | 1308.5 | 1312.3 | 1308.5 | 1312.3 | 1306.6 | 1312.3 | 1316.1 | 1321.9 |
| 7.5°  | 1300.9 | 1297.1 | 1291.3 | 1291.3 | 1289.4 | 1285.6 | 1279.9 | 1295.2 | 1287.5 | 1293.2 | 1302.8 |
| 10°   | 1302.8 | 1297.1 | 1278.0 | 1281.8 | 1264.6 | 1264.6 | 1268.4 | 1268.4 | 1285.6 | 1304.7 | 1310.4 |
| 12.5° | 1302.8 | 1291.3 | 1285.6 | 1260.8 | 1260.8 | 1262.7 | 1272.3 | 1276.1 | 1287.5 | 1295.2 | 1314.2 |
| 15°   | 1302.8 | 1297.1 | 1287.5 | 1255.1 | 1262.7 | 1258.9 | 1268.4 | 1268.4 | 1293.2 | 1306.6 | 1316.1 |
| 17.5° | 1310.4 | 1314.2 | 1297.1 | 1266.5 | 1268.4 | 1276.1 | 1270.4 | 1276.1 | 1306.6 | 1316.1 | 1329.5 |
| 20°   | 1312.3 | 1297.1 | 1291.3 | 1272.3 | 1289.4 | 1285.6 | 1283.7 | 1295.2 | 1304.7 | 1321.9 | 1337.1 |
| 22.5° | 1308.5 | 1314.2 | 1291.3 | 1289.4 | 1304.7 | 1312.3 | 1316.1 | 1302.8 | 1314.2 | 1325.7 | 1339.0 |
| 25°   | 1340.9 | 1320.0 | 1314.2 | 1310.4 | 1318.0 | 1325.7 | 1321.9 | 1333.3 | 1333.3 | 1346.7 | 1363.8 |
| 27.5° | 1428.7 | 1430.6 | 1419.1 | 1373.4 | 1358.1 | 1340.9 | 1348.6 | 1379.1 | 1415.3 | 1443.9 | 1449.7 |
| 30°   | 1468.7 | 1476.4 | 1506.9 | 1499.3 | 1493.5 | 1499.3 | 1497.3 | 1505.0 | 1508.8 | 1510.7 | 1505.0 |
| 32.5° | 1505.0 | 1501.2 | 1487.8 | 1522.1 | 1634.7 | 1720.5 | 1638.5 | 1526.0 | 1501.2 | 1493.5 | 1501.2 |
| 35°   | 1636.6 | 1636.6 | 1608.0 | 1564.1 | 1623.2 | 1644.2 | 1606.1 | 1552.7 | 1583.2 | 1646.1 | 1649.9 |
| 37.5° | 1806.3 | 1781.6 | 1793.0 | 1787.3 | 1722.4 | 1676.6 | 1743.4 | 1777.7 | 1783.5 | 1781.6 | 1800.6 |
| 40°   | 1907.4 | 1890.3 | 1873.1 | 1903.6 | 1962.8 | 2004.7 | 1945.6 | 1863.6 | 1884.6 | 1926.5 | 1909.4 |
| 42.5° | 2138.2 | 2094.4 | 2098.2 | 2067.7 | 2065.8 | 2052.4 | 2039.1 | 2044.8 | 2075.3 | 2123.0 | 2130.6 |
| 45°   | 2374.8 | 2395.7 | 2382.4 | 2325.2 | 2351.9 | 2351.9 | 2313.7 | 2342.3 | 2357.6 | 2412.9 | 2420.5 |
| 47.5° | 2744.8 | 2735.3 | 2741.0 | 2689.5 | 2687.6 | 2700.9 | 2687.6 | 2689.5 | 2737.2 | 2733.4 | 2712.4 |
| 50°   | 3177.8 | 3204.5 | 3212.1 | 3187.3 | 3156.8 | 3151.1 | 3130.1 | 3156.8 | 3185.4 | 3187.3 | 3170.2 |
| 52.5° | 3776.7 | 3805.3 | 3805.3 | 3813.0 | 3851.1 | 3832.1 | 3828.2 | 3830.1 | 3774.8 | 3736.7 | 3755.8 |
| 55°   | 4532.1 | 4541.6 | 4574.0 | 4640.8 | 4757.2 | 4772.4 | 4699.9 | 4667.5 | 4566.4 | 4505.4 | 4553.1 |
| 57.5° | 5277.9 | 5316.0 | 5405.7 | 5579.3 | 5722.3 | 5878.7 | 5668.9 | 5455.3 | 5256.9 | 5159.6 | 5176.8 |
| 60°   | 5897.8 | 5953.1 | 6124.8 | 6367.0 | 6763.8 | 6906.9 | 6552.1 | 6185.8 | 5783.4 | 5485.8 | 5606.0 |
| 62.5° | 6189.7 | 6275.5 | 6420.5 | 6910.7 | 7505.8 | 7711.8 | 7191.1 | 6525.4 | 5915.0 | 5628.9 | 5623.1 |
| 64°   | 6191.6 | 6204.9 | 6494.8 | 7023.2 | 7635.5 | 8034.1 | 7345.6 | 6525.4 | 5947.4 | 5594.5 | 5659.4 |
| 65°   | 6063.8 | 6119.1 | 6399.5 | 6920.2 | 7553.5 | 8060.9 | 7292.2 | 6435.7 | 5813.9 | 5539.2 | 5569.7 |
| 67.5° | 5483.9 | 5482.0 | 5741.4 | 6258.3 | 7137.7 | 7757.6 | 6838.2 | 5934.1 | 5483.9 | 5186.3 | 5222.6 |
| 70°   | 4160.1 | 4226.9 | 4474.9 | 5110.0 | 6176.3 | 6840.1 | 5979.8 | 5043.3 | 4482.5 | 4244.1 | 4230.7 |
| 72.5° | 2489.2 | 2577.0 | 2893.6 | 3668.0 | 4797.2 | 5604.1 | 4745.7 | 3731.0 | 3055.7 | 2678.0 | 2687.6 |
| 75°   | 1134.9 | 1199.8 | 1417.2 | 2048.6 | 3196.9 | 4097.2 | 3215.9 | 2157.3 | 1546.9 | 1306.6 | 1272.3 |
| 77.5° | 318.5  | 358.6  | 478.8  | 940.4  | 1754.8 | 2456.8 | 1804.4 | 1039.6 | 675.2  | 560.8  | 549.3  |
| 80°   | 143.1  | 150.7  | 169.8  | 228.9  | 557.0  | 1083.4 | 745.8  | 381.5  | 253.7  | 209.8  | 200.3  |
| 82.5° | 78.2   | 83.9   | 110.6  | 118.3  | 158.3  | 288.0  | 246.1  | 179.3  | 152.6  | 122.1  | 118.3  |
| 85°   | 43.9   | 45.8   | 62.9   | 62.9   | 76.3   | 83.9   | 89.6   | 95.4   | 93.5   | 68.7   | 66.8   |
| 87.5° | 13.4   | 15.3   | 19.1   | 19.1   | 19.1   | 19.1   | 30.5   | 42.0   | 45.8   | 32.4   | 32.4   |
| 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)