

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: P524169

Luminaire Tested: **IFLD-L-SA7A-935-U-66**

Issue Date: 05/27/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P524169  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 05/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-935-U-66  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 66 distribution lens  
Light Source: (112) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

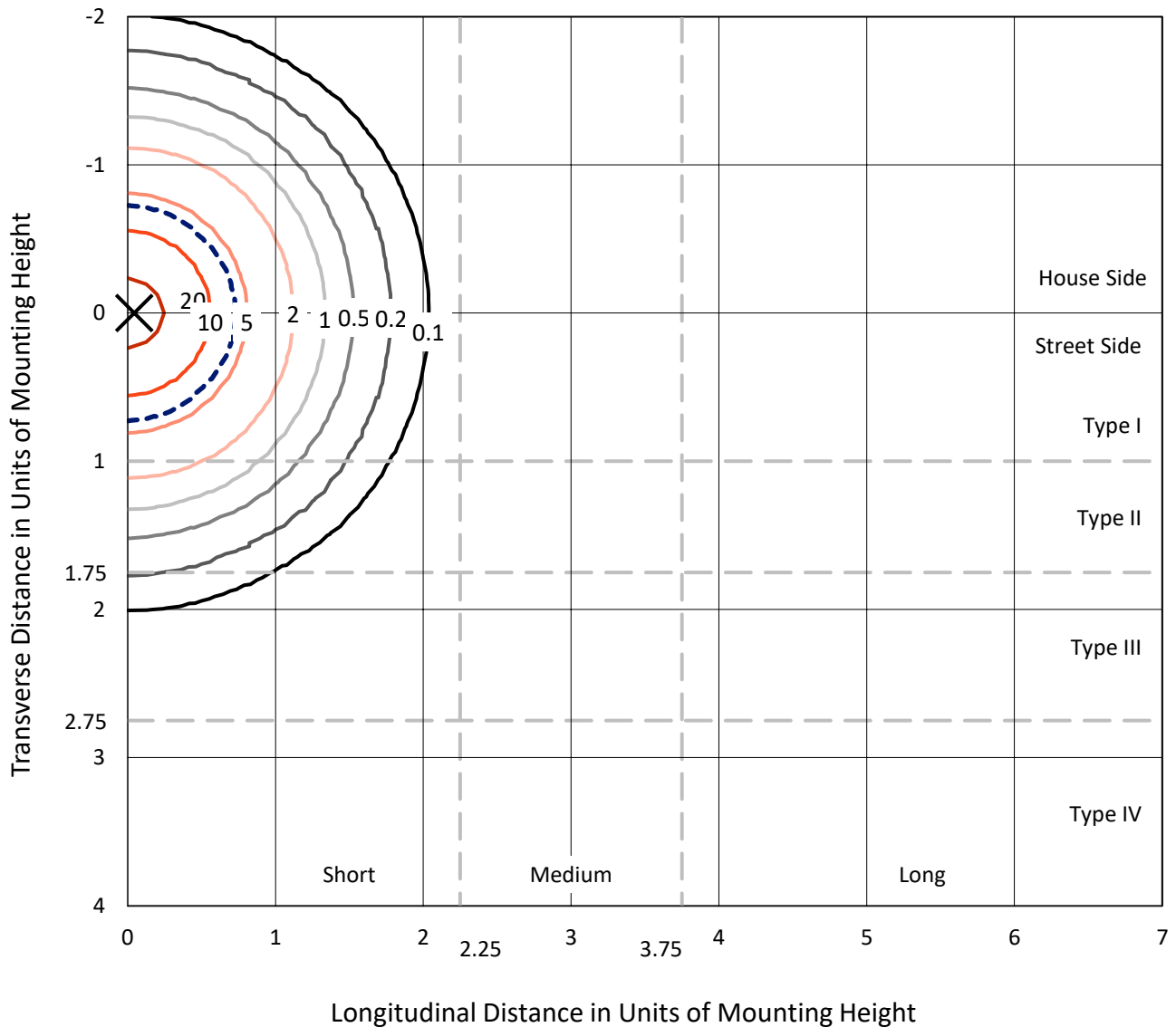
Lumens per Lamp: N/A  
Luminaire Lumens: 21564.2 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

Input Watts (W): 217.6  
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

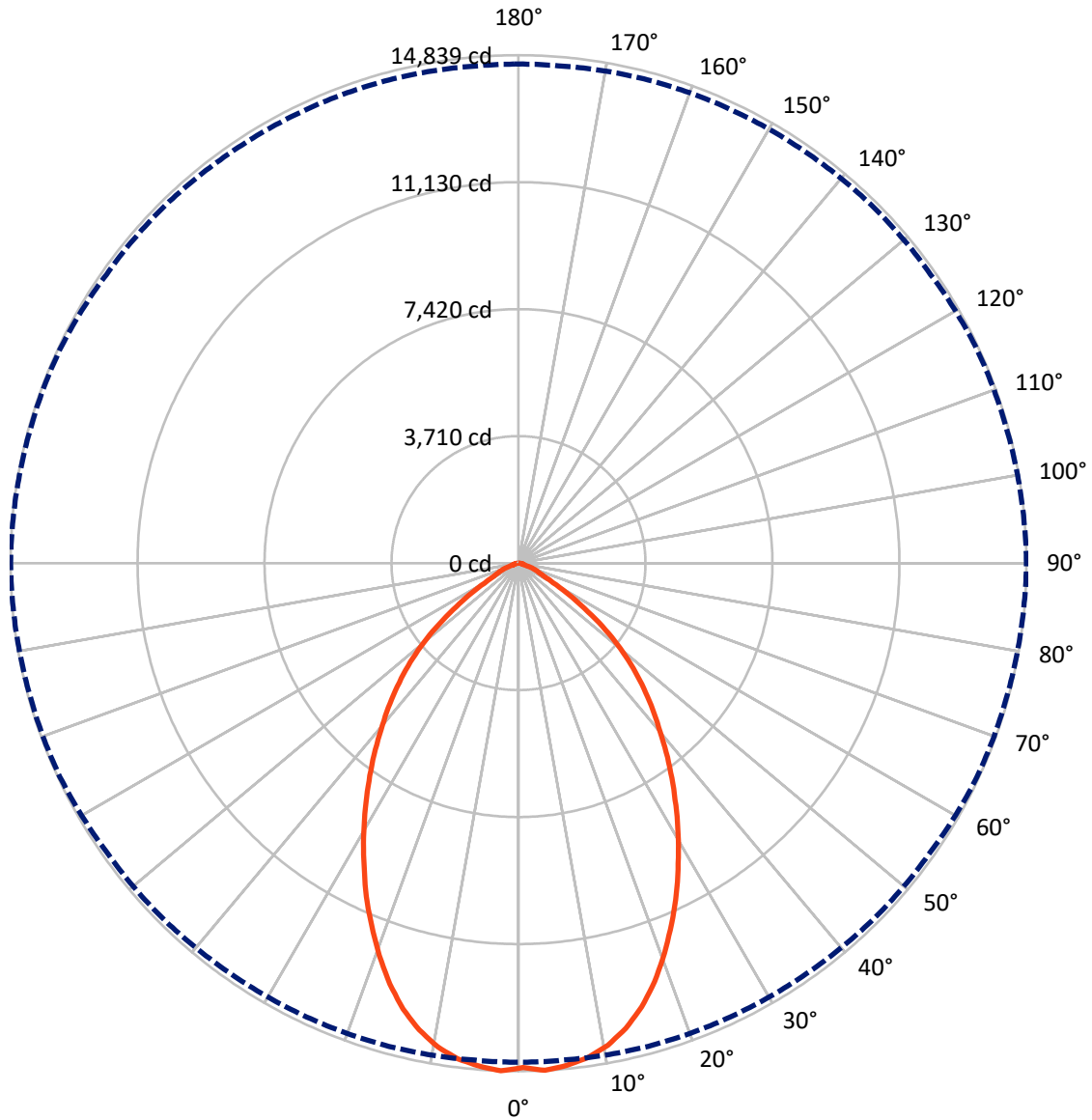
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 2.5-Deg Vertical

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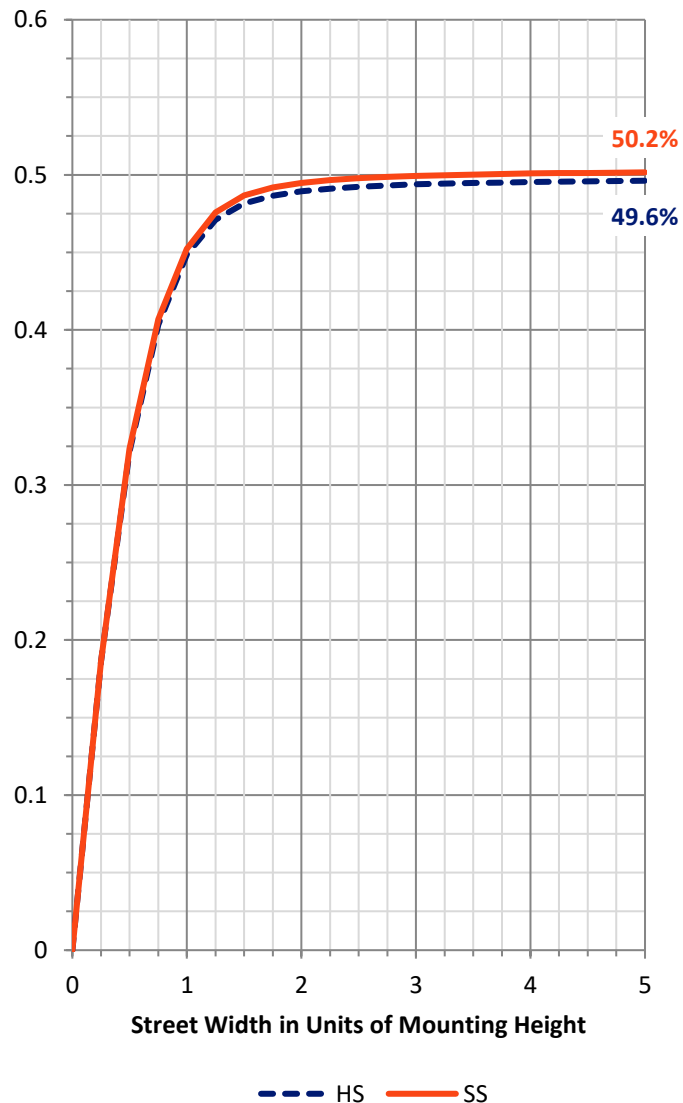
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10782.1  | 0.0    | 10782.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 10782.1  | 0.0    | 10782.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 21564.2  | 0.0    | 21564.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1383.7  | 6.4       |
| 10°-20°   | 3718.1  | 17.2      |
| 20°-30°   | 4810.4  | 22.3      |
| 30°-40°   | 4744.3  | 22.0      |
| 40°-50°   | 3838.3  | 17.8      |
| 50°-60°   | 2089.8  | 9.7       |
| 60°-70°   | 662.2   | 3.1       |
| 70°-80°   | 256.2   | 1.2       |
| 80°-90°   | 61.2    | 0.3       |
| 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°    | 21564.2 | 100.0     |
| 0°-180°   | 21564.2 | 100.0     |

**Coefficient of Utilization**



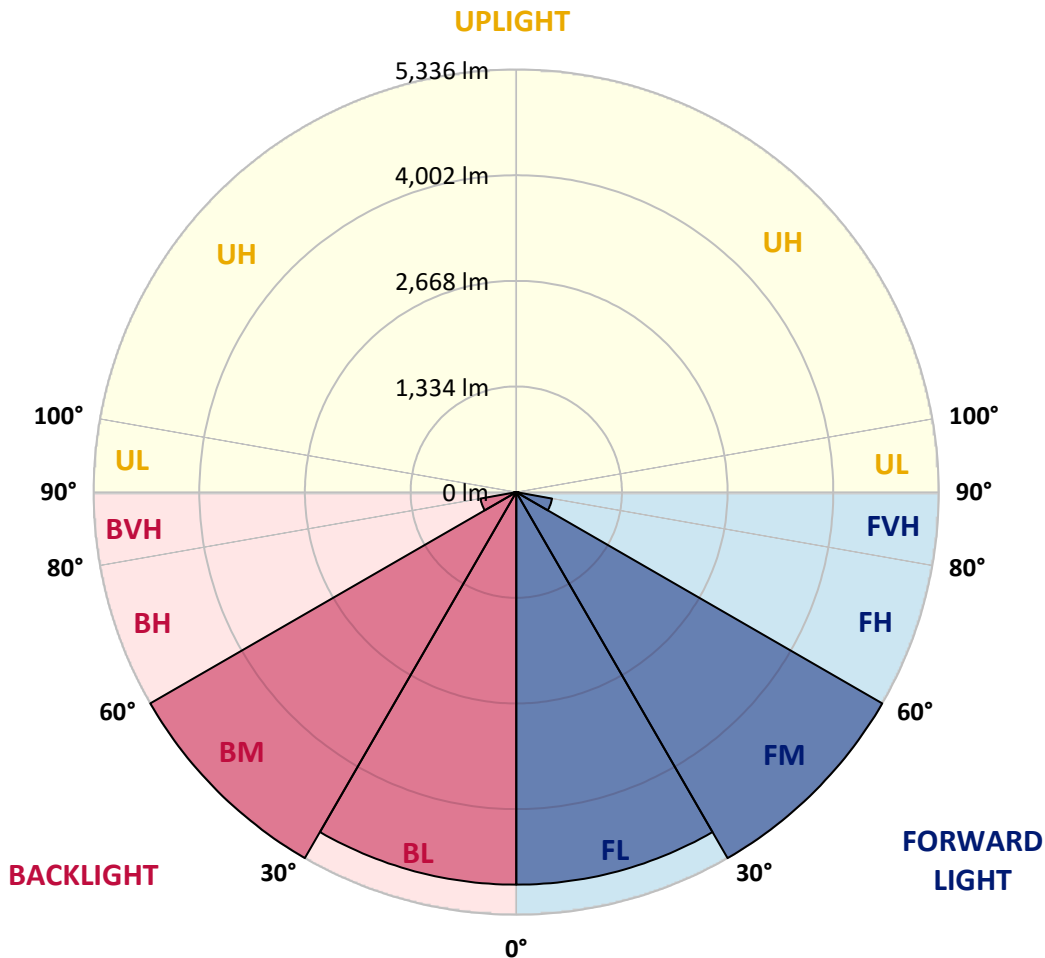
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 4956.1 | 23.0      |                         |      |        |
| FM (30°-60°)   | 5336.2 | 24.7      |                         |      |        |
| FH (60°-80°)   | 459.2  | 2.1       |                         |      | G0/660 |
| FVH (80°-90°)  | 30.6   | 0.1       |                         |      | G1/100 |
| BL (0°-30°)    | 4956.1 | 23.0      | B4/5000                 |      |        |
| BM (30°-60°)   | 5336.2 | 24.7      | B4/8500                 |      |        |
| BH (60°-80°)   | 459.2  | 2.1       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 30.6   | 0.1       |                         |      | G1/100 |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B4-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 14739.7 | 14739.7 | 14739.7 | 14739.7 | 14739.7 | 14739.7 | 14739.7 | 14739.7 | 14739.7 | 14739.7 | 14739.7 |
| 2.5°  | 14580.8 | 14577.7 | 14615.1 | 14630.7 | 14649.4 | 14686.8 | 14699.2 | 14780.2 | 14789.6 | 14820.7 | 14839.4 |
| 5°    | 14555.9 | 14543.5 | 14580.8 | 14587.1 | 14608.9 | 14615.1 | 14633.8 | 14689.9 | 14683.7 | 14730.4 | 14739.7 |
| 7.5°  | 14421.9 | 14406.4 | 14437.5 | 14443.8 | 14474.9 | 14465.6 | 14496.7 | 14537.2 | 14537.2 | 14571.5 | 14587.1 |
| 10°   | 14122.8 | 14119.7 | 14150.9 | 14154.0 | 14197.6 | 14188.3 | 14238.1 | 14247.5 | 14272.4 | 14297.3 | 14325.4 |
| 12.5° | 13764.6 | 13724.1 | 13764.6 | 13749.0 | 13808.2 | 13773.9 | 13842.4 | 13864.3 | 13876.7 | 13920.3 | 13942.1 |
| 15°   | 13303.5 | 13253.6 | 13281.6 | 13266.1 | 13303.5 | 13259.8 | 13331.5 | 13375.1 | 13390.7 | 13434.3 | 13456.1 |
| 17.5° | 12686.6 | 12646.1 | 12652.3 | 12630.5 | 12655.4 | 12621.1 | 12689.7 | 12758.2 | 12780.0 | 12826.8 | 12857.9 |
| 20°   | 11910.8 | 11910.8 | 11913.9 | 11895.2 | 11917.0 | 11882.8 | 11926.4 | 12032.3 | 12054.1 | 12116.4 | 12169.4 |
| 22.5° | 11153.7 | 11153.7 | 11163.1 | 11138.1 | 11144.4 | 11128.8 | 11175.5 | 11278.3 | 11312.6 | 11378.0 | 11443.5 |
| 25°   | 10427.8 | 10415.3 | 10421.6 | 10399.8 | 10374.8 | 10381.1 | 10437.1 | 10502.6 | 10577.3 | 10661.5 | 10711.3 |
| 27.5° | 9736.1  | 9751.7  | 9714.3  | 9698.7  | 9680.1  | 9645.8  | 9711.2  | 9792.2  | 9845.2  | 9913.7  | 9938.6  |
| 30°   | 8997.7  | 9028.9  | 9000.9  | 8988.4  | 8941.7  | 8898.0  | 8966.6  | 9047.6  | 9100.6  | 9166.0  | 9194.0  |
| 32.5° | 8340.4  | 8331.0  | 8306.1  | 8278.1  | 8231.3  | 8197.0  | 8225.1  | 8318.6  | 8359.1  | 8427.6  | 8436.9  |
| 35°   | 7636.2  | 7630.0  | 7614.4  | 7558.4  | 7542.8  | 7502.3  | 7527.2  | 7608.2  | 7639.4  | 7679.9  | 7711.0  |
| 37.5° | 6947.7  | 6925.9  | 6919.7  | 6897.9  | 6869.8  | 6860.5  | 6860.5  | 6904.1  | 6935.2  | 6975.7  | 7006.9  |
| 40°   | 6265.4  | 6271.6  | 6252.9  | 6234.2  | 6224.9  | 6212.4  | 6215.5  | 6240.5  | 6265.4  | 6284.1  | 6302.8  |
| 42.5° | 5648.5  | 5614.2  | 5601.8  | 5583.1  | 5592.4  | 5608.0  | 5573.7  | 5611.1  | 5642.3  | 5642.3  | 5682.8  |
| 45°   | 4941.3  | 4956.9  | 4963.1  | 4994.2  | 4994.2  | 4978.7  | 4966.2  | 4984.9  | 5016.1  | 5012.9  | 5053.4  |
| 47.5° | 4324.4  | 4305.7  | 4321.3  | 4368.0  | 4408.5  | 4414.8  | 4377.4  | 4386.7  | 4396.1  | 4380.5  | 4417.9  |
| 50°   | 3648.3  | 3654.6  | 3651.4  | 3723.1  | 3804.1  | 3776.1  | 3748.0  | 3757.4  | 3754.3  | 3754.3  | 3760.5  |
| 52.5° | 2913.1  | 2928.6  | 2909.9  | 3012.7  | 3100.0  | 3078.2  | 3059.5  | 3059.5  | 3075.1  | 3071.9  | 3068.8  |
| 55°   | 2243.2  | 2237.0  | 2196.5  | 2246.3  | 2324.2  | 2327.3  | 2299.3  | 2311.7  | 2327.3  | 2342.9  | 2339.8  |
| 57.5° | 1669.9  | 1651.2  | 1595.2  | 1598.3  | 1685.5  | 1707.3  | 1682.4  | 1679.3  | 1698.0  | 1704.2  | 1738.5  |
| 60°   | 1124.7  | 1121.6  | 1071.8  | 1068.6  | 1102.9  | 1162.1  | 1134.1  | 1134.1  | 1140.3  | 1149.6  | 1159.0  |
| 62.5° | 769.5   | 775.8   | 757.1   | 754.0   | 760.2   | 810.0   | 806.9   | 803.8   | 800.7   | 813.2   | 810.0   |
| 65°   | 604.4   | 607.5   | 601.3   | 601.3   | 604.4   | 626.2   | 648.0   | 651.2   | 654.3   | 657.4   | 654.3   |
| 67.5° | 486.0   | 489.1   | 482.9   | 489.1   | 489.1   | 492.3   | 523.4   | 535.9   | 539.0   | 539.0   | 535.9   |
| 70°   | 373.9   | 386.3   | 392.6   | 392.6   | 392.6   | 392.6   | 414.4   | 429.9   | 426.8   | 408.1   | 389.4   |
| 72.5° | 186.9   | 227.4   | 314.7   | 317.8   | 314.7   | 311.6   | 324.0   | 339.6   | 336.5   | 236.8   | 177.6   |
| 75°   | 124.6   | 134.0   | 246.1   | 258.6   | 255.5   | 243.0   | 255.5   | 274.2   | 267.9   | 152.7   | 146.4   |
| 77.5° | 71.7    | 77.9    | 165.1   | 190.0   | 205.6   | 177.6   | 202.5   | 221.2   | 211.9   | 124.6   | 121.5   |
| 80°   | 56.1    | 53.0    | 118.4   | 146.4   | 140.2   | 112.2   | 165.1   | 177.6   | 162.0   | 93.5    | 84.1    |
| 82.5° | 34.3    | 34.3    | 77.9    | 112.2   | 102.8   | 65.4    | 115.3   | 137.1   | 121.5   | 68.5    | 62.3    |
| 85°   | 18.7    | 21.8    | 37.4    | 56.1    | 59.2    | 43.6    | 62.3    | 74.8    | 74.8    | 43.6    | 43.6    |
| 87.5° | 9.3     | 9.3     | 12.5    | 12.5    | 15.6    | 18.7    | 18.7    | 21.8    | 15.6    | 12.5    | 12.5    |
| 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)