

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: P524202

Luminaire Tested: **IFLD-S-SA6E-940-U-66**

Issue Date: 05/27/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P524202  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 05/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-940-U-66  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 66 distribution lens  
Light Source: (96) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

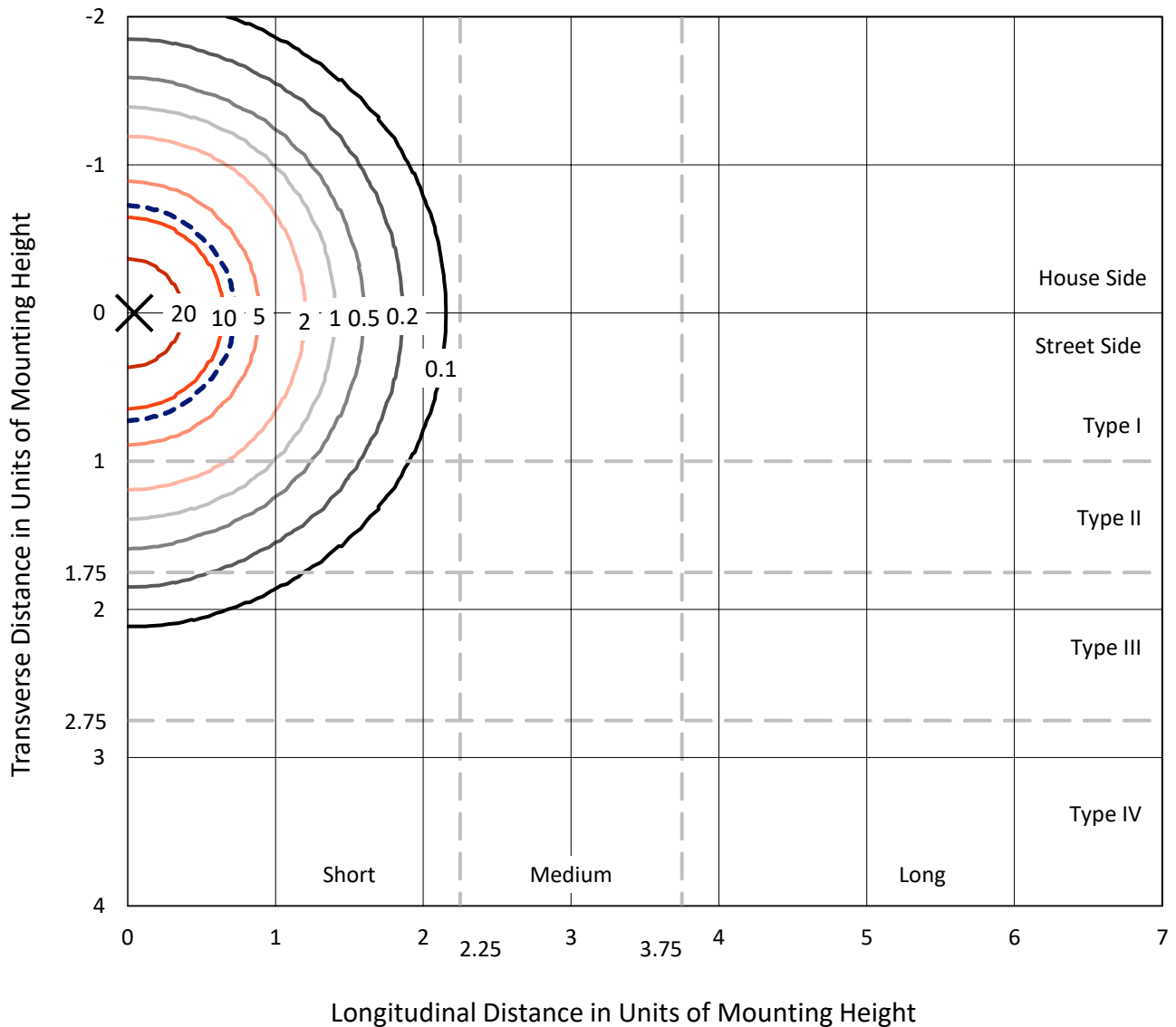
Lumens per Lamp: N/A  
Luminaire Lumens: 39671.3 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

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

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### Iso-Footcandle Lines of Horizontal Illumination

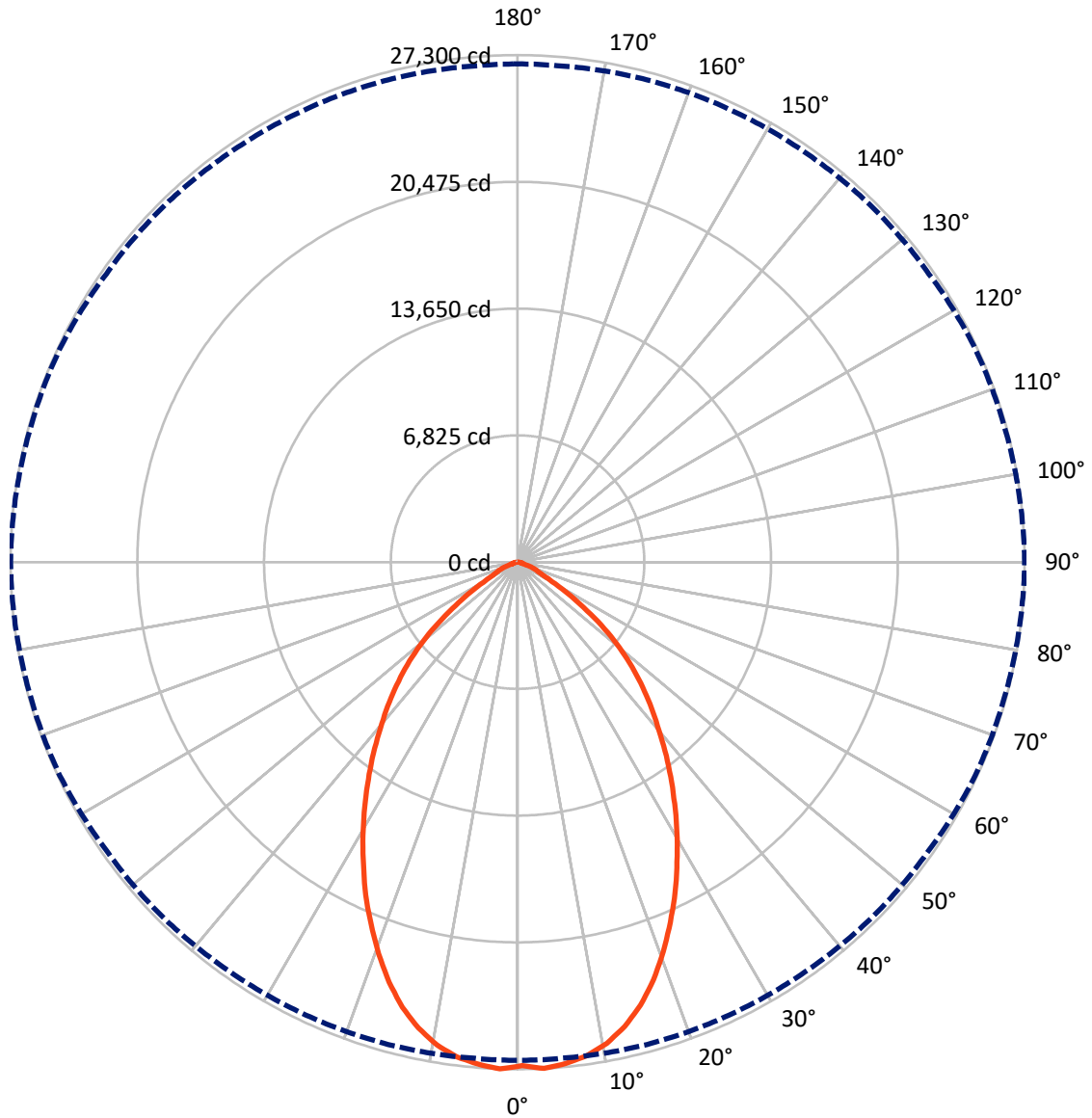
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 30.1 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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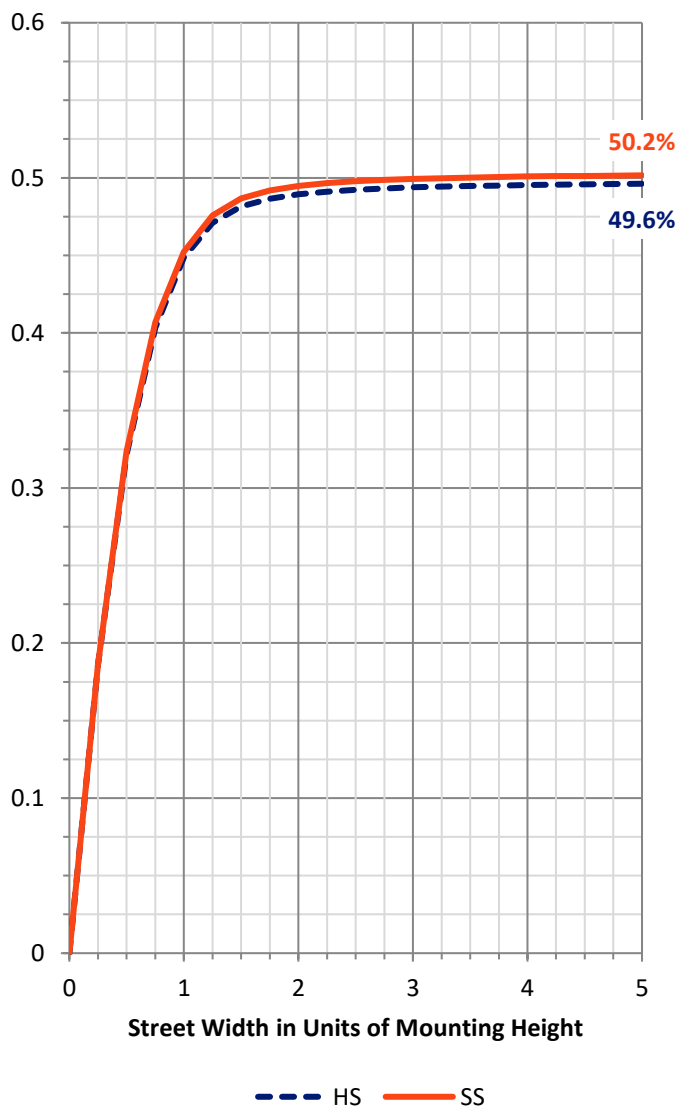
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 19835.7  | 0.0    | 19835.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 19835.7  | 0.0    | 19835.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 39671.3  | 0.0    | 39671.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 2545.6  | 6.4       |
| 10°-20°   | 6840.1  | 17.2      |
| 20°-30°   | 8849.7  | 22.3      |
| 30°-40°   | 8727.9  | 22.0      |
| 40°-50°   | 7061.3  | 17.8      |
| 50°-60°   | 3844.7  | 9.7       |
| 60°-70°   | 1218.2  | 3.1       |
| 70°-80°   | 471.3   | 1.2       |
| 80°-90°   | 112.7   | 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°    | 39671.3 | 100.0     |
| 0°-180°   | 39671.3 | 100.0     |

**Coefficient of Utilization**



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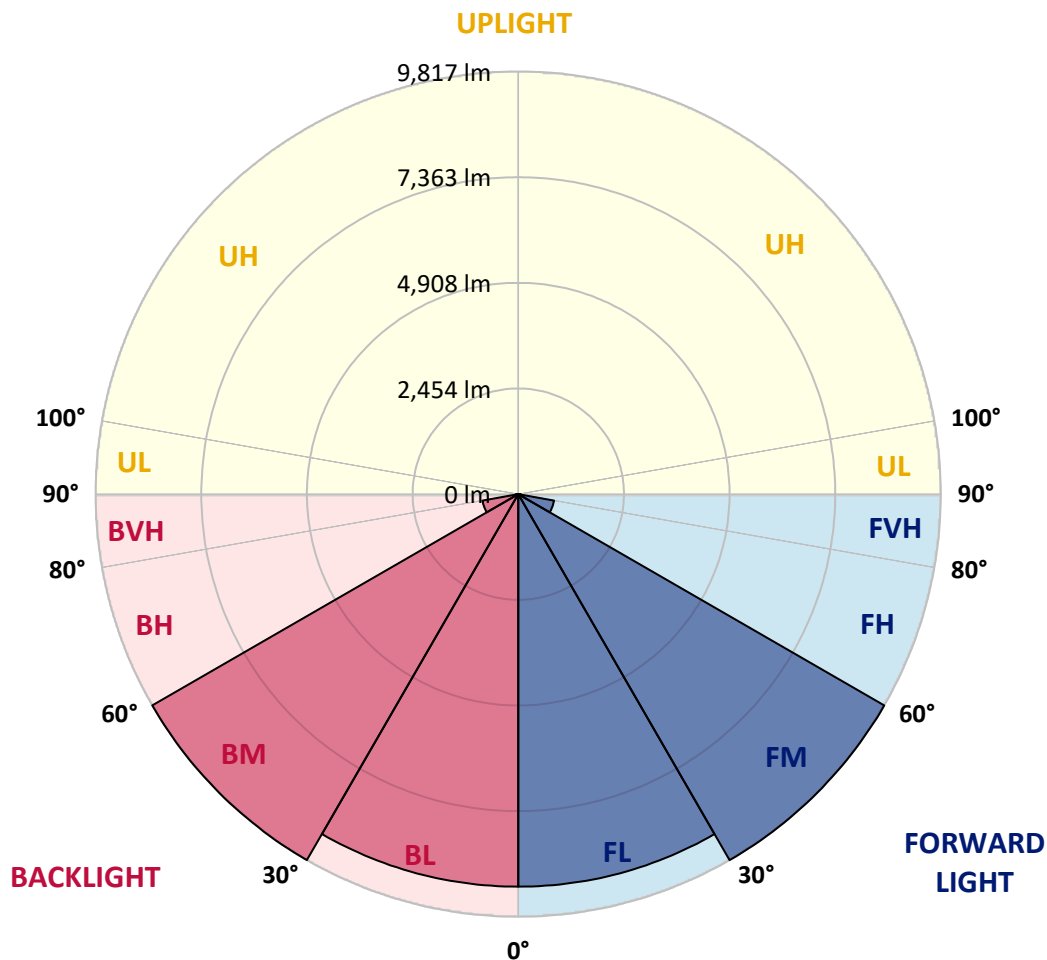
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 9117.7 | 23.0      |                         |      |         |
| FM (30°-60°)   | 9816.9 | 24.7      |                         |      |         |
| FH (60°-80°)   | 844.7  | 2.1       |                         |      | G1/1800 |
| FVH (80°-90°)  | 56.3   | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 9117.7 | 23.0      | B5                      |      |         |
| BM (30°-60°)   | 9816.9 | 24.7      | B5                      |      |         |
| BH (60°-80°)   | 844.7  | 2.1       | B2/1000                 |      | G1/1800 |
| BVH (80°-90°)  | 56.3   | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 27116.4 | 27116.4 | 27116.4 | 27116.4 | 27116.4 | 27116.4 | 27116.4 | 27116.4 | 27116.4 | 27116.4 | 27116.4 |
| 2.5°  | 26824.1 | 26818.3 | 26887.1 | 26915.8 | 26950.2 | 27019.0 | 27041.9 | 27190.9 | 27208.1 | 27265.4 | 27299.8 |
| 5°    | 26778.2 | 26755.3 | 26824.1 | 26835.5 | 26875.7 | 26887.1 | 26921.5 | 27024.7 | 27013.2 | 27099.2 | 27116.4 |
| 7.5°  | 26531.8 | 26503.1 | 26560.4 | 26571.9 | 26629.2 | 26612.0 | 26669.3 | 26743.8 | 26743.8 | 26806.9 | 26835.5 |
| 10°   | 25981.5 | 25975.8 | 26033.1 | 26038.8 | 26119.1 | 26101.9 | 26193.6 | 26210.8 | 26256.6 | 26302.5 | 26354.1 |
| 12.5° | 25322.4 | 25247.9 | 25322.4 | 25293.7 | 25402.6 | 25339.6 | 25465.7 | 25505.8 | 25528.7 | 25609.0 | 25649.1 |
| 15°   | 24474.1 | 24382.4 | 24434.0 | 24405.3 | 24474.1 | 24393.9 | 24525.7 | 24605.9 | 24634.6 | 24714.8 | 24755.0 |
| 17.5° | 23339.2 | 23264.7 | 23276.2 | 23236.1 | 23281.9 | 23218.9 | 23345.0 | 23471.1 | 23511.2 | 23597.2 | 23654.5 |
| 20°   | 21912.1 | 21912.1 | 21917.8 | 21883.4 | 21923.5 | 21860.5 | 21940.7 | 22135.6 | 22175.7 | 22290.3 | 22387.8 |
| 22.5° | 20519.3 | 20519.3 | 20536.5 | 20490.6 | 20502.1 | 20473.4 | 20559.4 | 20748.5 | 20811.6 | 20932.0 | 21052.3 |
| 25°   | 19183.8 | 19160.9 | 19172.3 | 19132.2 | 19086.4 | 19097.8 | 19201.0 | 19321.4 | 19458.9 | 19613.7 | 19705.4 |
| 27.5° | 17911.4 | 17940.0 | 17871.3 | 17842.6 | 17808.2 | 17745.2 | 17865.5 | 18014.5 | 18112.0 | 18238.1 | 18283.9 |
| 30°   | 16553.0 | 16610.3 | 16558.7 | 16535.8 | 16449.8 | 16369.6 | 16495.7 | 16644.7 | 16742.1 | 16862.5 | 16914.1 |
| 32.5° | 15343.6 | 15326.4 | 15280.6 | 15229.0 | 15143.0 | 15079.9 | 15131.5 | 15303.5 | 15378.0 | 15504.1 | 15521.3 |
| 35°   | 14048.3 | 14036.8 | 14008.1 | 13905.0 | 13876.3 | 13801.8 | 13847.6 | 13996.7 | 14054.0 | 14128.5 | 14185.8 |
| 37.5° | 12781.6 | 12741.4 | 12730.0 | 12689.9 | 12638.3 | 12621.1 | 12621.1 | 12701.3 | 12758.6 | 12833.1 | 12890.5 |
| 40°   | 11526.3 | 11537.8 | 11503.4 | 11469.0 | 11451.8 | 11428.9 | 11434.6 | 11480.5 | 11526.3 | 11560.7 | 11595.1 |
| 42.5° | 10391.5 | 10328.4 | 10305.5 | 10271.1 | 10288.3 | 10317.0 | 10253.9 | 10322.7 | 10380.0 | 10380.0 | 10454.5 |
| 45°   | 9090.4  | 9119.0  | 9130.5  | 9187.8  | 9187.8  | 9159.2  | 9136.2  | 9170.6  | 9227.9  | 9222.2  | 9296.7  |
| 47.5° | 7955.5  | 7921.1  | 7949.8  | 8035.8  | 8110.3  | 8121.7  | 8053.0  | 8070.1  | 8087.3  | 8058.7  | 8127.5  |
| 50°   | 6711.8  | 6723.2  | 6717.5  | 6849.3  | 6998.3  | 6946.7  | 6895.2  | 6912.4  | 6906.6  | 6906.6  | 6918.1  |
| 52.5° | 5359.1  | 5387.7  | 5353.4  | 5542.5  | 5703.0  | 5662.9  | 5628.5  | 5628.5  | 5657.1  | 5651.4  | 5645.7  |
| 55°   | 4126.8  | 4115.3  | 4040.8  | 4132.5  | 4275.8  | 4281.5  | 4230.0  | 4252.9  | 4281.5  | 4310.2  | 4304.5  |
| 57.5° | 3072.2  | 3037.8  | 2934.6  | 2940.3  | 3100.8  | 3140.9  | 3095.1  | 3089.4  | 3123.7  | 3135.2  | 3198.3  |
| 60°   | 2069.1  | 2063.4  | 1971.7  | 1966.0  | 2029.0  | 2137.9  | 2086.3  | 2086.3  | 2097.8  | 2115.0  | 2132.2  |
| 62.5° | 1415.7  | 1427.2  | 1392.8  | 1387.1  | 1398.5  | 1490.2  | 1484.5  | 1478.8  | 1473.0  | 1496.0  | 1490.2  |
| 65°   | 1111.9  | 1117.7  | 1106.2  | 1106.2  | 1111.9  | 1152.1  | 1192.2  | 1197.9  | 1203.6  | 1209.4  | 1203.6  |
| 67.5° | 894.1   | 899.9   | 888.4   | 899.9   | 899.9   | 905.6   | 962.9   | 985.8   | 991.6   | 991.6   | 985.8   |
| 70°   | 687.8   | 710.7   | 722.2   | 722.2   | 722.2   | 722.2   | 762.3   | 791.0   | 785.2   | 750.8   | 716.5   |
| 72.5° | 343.9   | 418.4   | 578.9   | 584.6   | 578.9   | 573.2   | 596.1   | 624.7   | 619.0   | 435.6   | 326.7   |
| 75°   | 229.3   | 246.5   | 452.8   | 475.7   | 470.0   | 447.1   | 470.0   | 504.4   | 492.9   | 280.9   | 269.4   |
| 77.5° | 131.8   | 143.3   | 303.8   | 349.6   | 378.3   | 326.7   | 372.6   | 406.9   | 389.8   | 229.3   | 223.5   |
| 80°   | 103.2   | 97.4    | 217.8   | 269.4   | 257.9   | 206.3   | 303.8   | 326.7   | 298.0   | 171.9   | 154.8   |
| 82.5° | 63.0    | 63.0    | 143.3   | 206.3   | 189.1   | 120.4   | 212.1   | 252.2   | 223.5   | 126.1   | 114.6   |
| 85°   | 34.4    | 40.1    | 68.8    | 103.2   | 108.9   | 80.2    | 114.6   | 137.6   | 137.6   | 80.2    | 80.2    |
| 87.5° | 17.2    | 17.2    | 22.9    | 22.9    | 28.7    | 34.4    | 34.4    | 40.1    | 28.7    | 22.9    | 22.9    |
| 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)