

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: P383411

Luminaire Tested: **GLEON-SA7B-735-U-5NQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383411  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA7B-735-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38839.9 lumens  
Efficiency: N/A  
Efficacy: 131.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

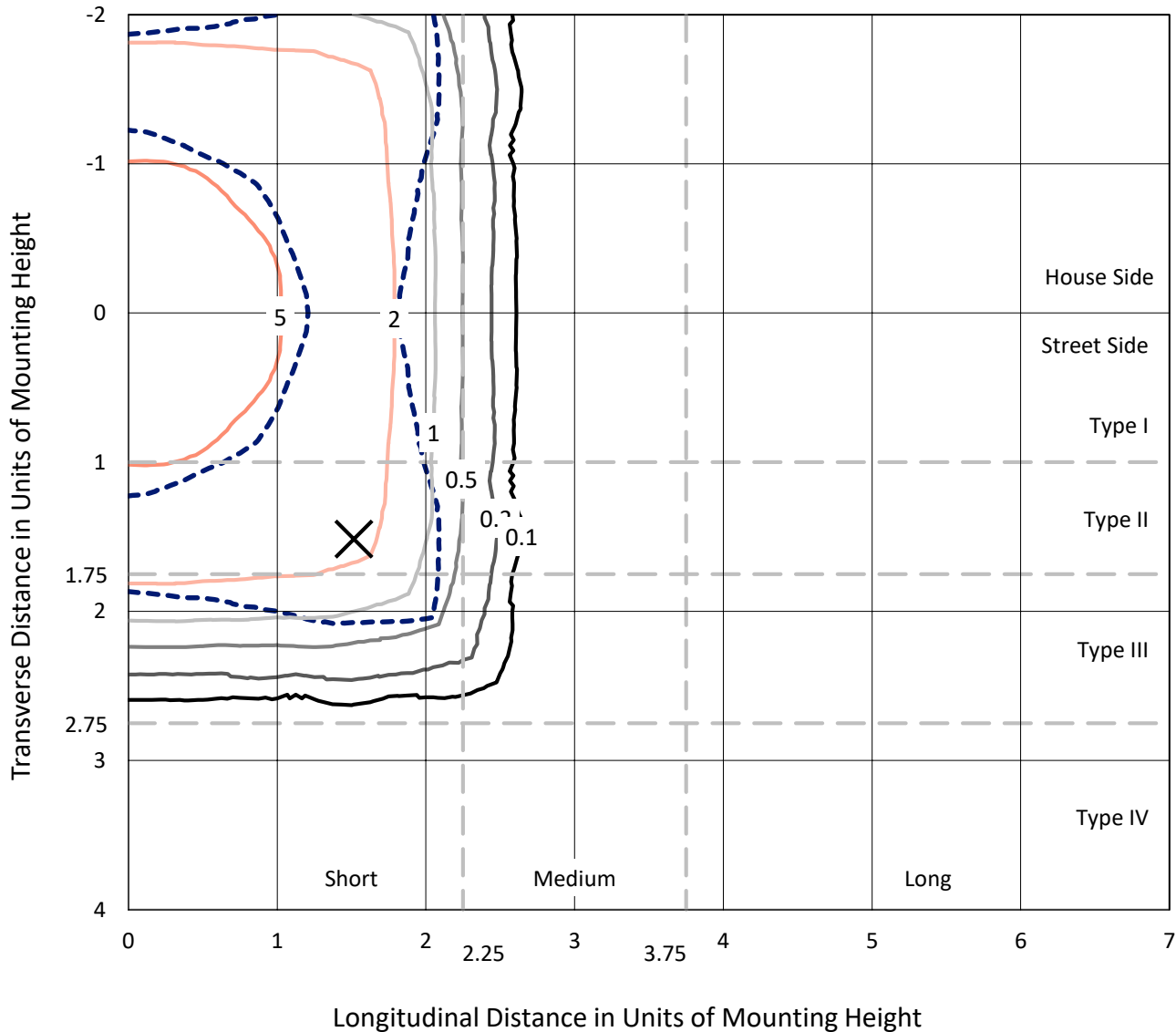
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

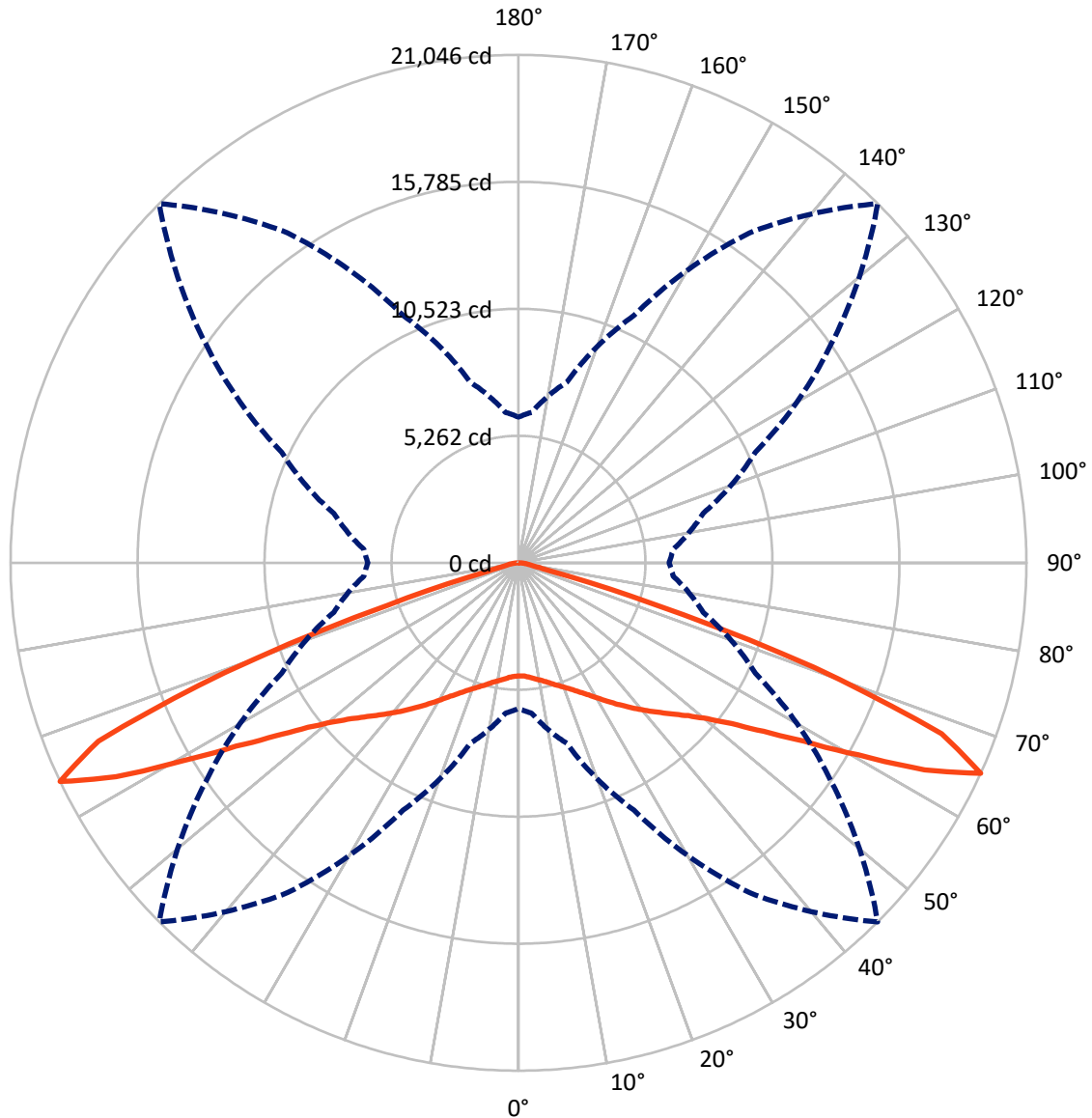
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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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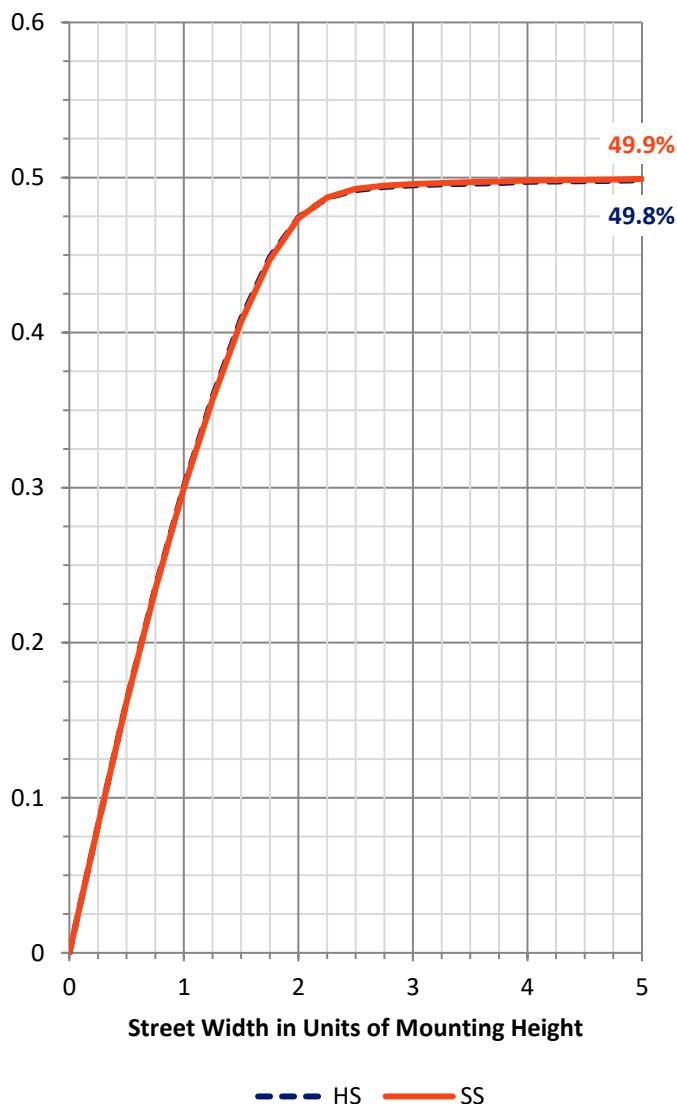
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 19420.0  | 0.0    | 19420.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 19420.0  | 0.0    | 19420.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 38839.9  | 0.0    | 38839.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 460.2   | 1.2       |
| 10°-20°   | 1479.2  | 3.8       |
| 20°-30°   | 2775.2  | 7.1       |
| 30°-40°   | 4589.7  | 11.8      |
| 40°-50°   | 7108.8  | 18.3      |
| 50°-60°   | 10902.9 | 28.1      |
| 60°-70°   | 10173.6 | 26.2      |
| 70°-80°   | 1184.1  | 3.0       |
| 80°-90°   | 166.4   | 0.4       |
| 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°    | 38839.9 | 100.0     |
| 0°-180°   | 38839.9 | 100.0     |

**Coefficient of Utilization**



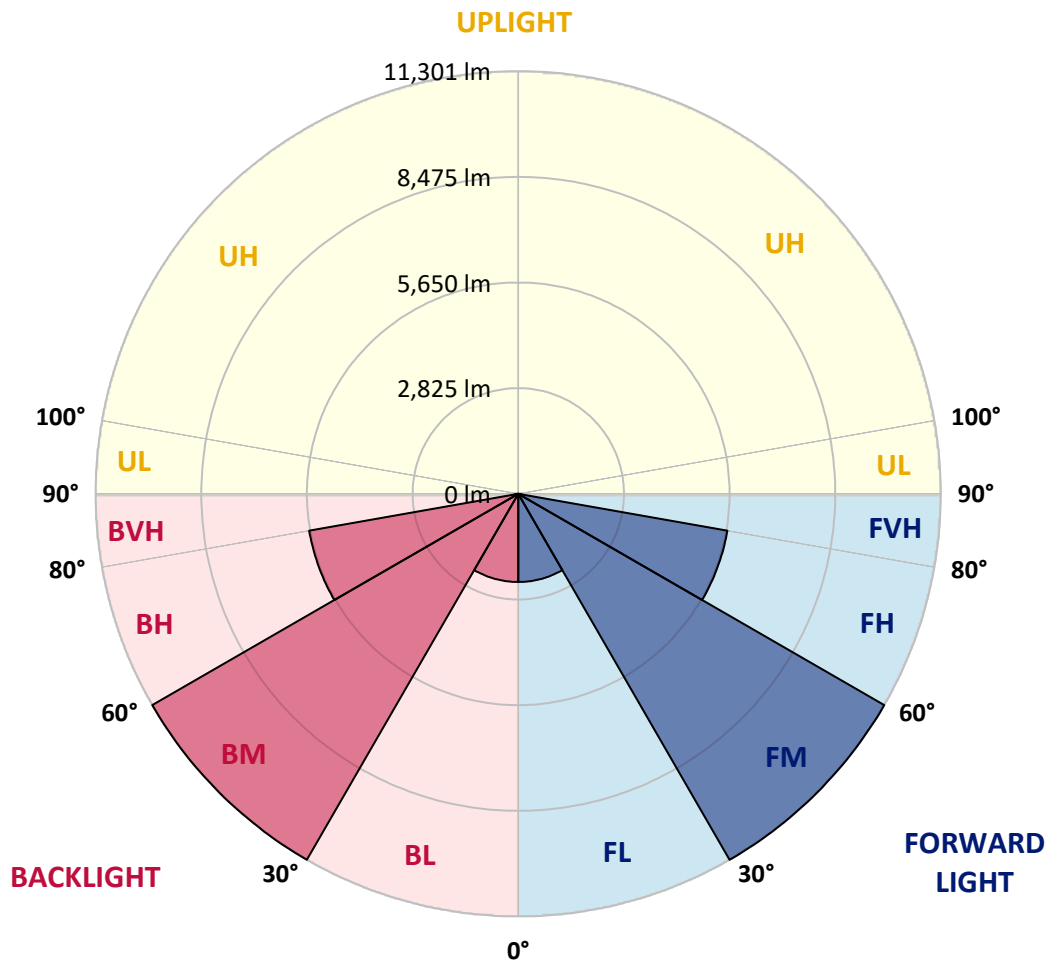
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2357.3  | 6.1       |                         |      |         |
| FM (30°-60°)   | 11300.6 | 29.1      |                         |      |         |
| FH (60°-80°)   | 5678.8  | 14.6      |                         |      | G3/7500 |
| FVH (80°-90°)  | 83.2    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 2357.3  | 6.1       | B3/2500                 |      |         |
| BM (30°-60°)   | 11300.6 | 29.1      | B5                      |      |         |
| BH (60°-80°)   | 5678.8  | 14.6      | B5                      |      | G3/7500 |
| BVH (80°-90°)  | 83.2    | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4690.4  | 4690.4  | 4690.4  | 4690.4  | 4690.4  | 4690.4  | 4690.4  | 4690.4  | 4690.4  | 4690.4  | 4690.4  |
| 2.5°  | 4705.9  | 4703.3  | 4705.9  | 4707.2  | 4699.5  | 4703.3  | 4702.0  | 4708.5  | 4711.0  | 4708.5  | 4708.5  |
| 5°    | 4760.0  | 4756.2  | 4761.3  | 4767.8  | 4757.4  | 4760.0  | 4756.2  | 4763.9  | 4766.4  | 4761.3  | 4765.2  |
| 7.5°  | 4834.8  | 4836.1  | 4841.3  | 4852.9  | 4846.4  | 4851.6  | 4843.9  | 4845.2  | 4843.9  | 4836.1  | 4837.4  |
| 10°   | 4916.1  | 4917.4  | 4926.4  | 4941.9  | 4944.4  | 4944.4  | 4939.3  | 4935.3  | 4930.2  | 4925.1  | 4926.4  |
| 12.5° | 5014.1  | 5020.5  | 5026.9  | 5046.3  | 5046.3  | 5056.5  | 5054.0  | 5043.7  | 5034.6  | 5026.9  | 5026.9  |
| 15°   | 5146.8  | 5145.5  | 5153.2  | 5172.6  | 5181.6  | 5198.4  | 5198.4  | 5184.2  | 5172.6  | 5164.9  | 5162.3  |
| 17.5° | 5286.1  | 5289.9  | 5295.1  | 5318.3  | 5332.5  | 5351.8  | 5354.4  | 5342.8  | 5335.1  | 5324.7  | 5318.3  |
| 20°   | 5448.5  | 5455.0  | 5475.5  | 5484.6  | 5497.5  | 5515.6  | 5522.0  | 5519.4  | 5511.7  | 5506.6  | 5507.8  |
| 22.5° | 5638.0  | 5654.8  | 5667.7  | 5680.6  | 5696.0  | 5709.0  | 5715.4  | 5724.5  | 5716.7  | 5712.8  | 5710.2  |
| 25°   | 5867.5  | 5879.1  | 5904.9  | 5928.1  | 5938.4  | 5942.3  | 5950.1  | 5962.9  | 5961.6  | 5952.6  | 5952.6  |
| 27.5° | 6128.0  | 6149.9  | 6182.1  | 6215.7  | 6215.7  | 6202.7  | 6228.5  | 6250.4  | 6242.7  | 6231.1  | 6215.7  |
| 30°   | 6443.9  | 6464.5  | 6501.8  | 6548.3  | 6525.0  | 6516.1  | 6550.8  | 6590.8  | 6579.2  | 6559.9  | 6557.3  |
| 32.5° | 6784.2  | 6803.6  | 6852.6  | 6902.9  | 6873.1  | 6860.3  | 6897.6  | 6955.7  | 6935.1  | 6896.3  | 6873.1  |
| 35°   | 7153.0  | 7172.3  | 7241.9  | 7302.5  | 7252.2  | 7230.3  | 7261.2  | 7324.4  | 7288.3  | 7216.1  | 7198.1  |
| 37.5° | 7553.9  | 7564.3  | 7654.4  | 7716.4  | 7681.5  | 7623.5  | 7662.3  | 7708.6  | 7677.7  | 7590.0  | 7555.2  |
| 40°   | 7970.3  | 8007.8  | 8112.2  | 8184.4  | 8123.7  | 8032.3  | 8096.7  | 8161.2  | 8114.7  | 8002.6  | 7943.3  |
| 42.5° | 8456.4  | 8484.8  | 8624.0  | 8688.5  | 8590.5  | 8461.5  | 8549.3  | 8636.9  | 8590.5  | 8482.2  | 8430.6  |
| 45°   | 8961.8  | 9005.6  | 9171.9  | 9236.4  | 9094.6  | 8930.8  | 9037.9  | 9191.3  | 9187.5  | 9031.4  | 8977.3  |
| 47.5° | 9512.3  | 9556.2  | 9754.7  | 9839.8  | 9686.4  | 9467.2  | 9618.0  | 9834.6  | 9819.2  | 9647.7  | 9603.9  |
| 50°   | 10148.0 | 10194.4 | 10441.9 | 10548.9 | 10405.9 | 10150.5 | 10377.4 | 10568.2 | 10539.9 | 10328.4 | 10332.4 |
| 52.5° | 10946.1 | 10943.4 | 11251.6 | 11437.3 | 11290.3 | 11064.6 | 11273.5 | 11459.2 | 11341.9 | 11049.2 | 11040.1 |
| 55°   | 11644.8 | 11687.4 | 12068.9 | 12421.0 | 12411.9 | 12325.6 | 12409.3 | 12417.1 | 12081.9 | 11692.5 | 11644.8 |
| 57.5° | 12103.8 | 12185.0 | 12722.6 | 13359.6 | 13836.6 | 13951.3 | 13788.9 | 13296.4 | 12511.2 | 11888.5 | 11812.4 |
| 60°   | 11821.4 | 11945.2 | 12789.7 | 14088.0 | 15493.3 | 16167.7 | 15250.9 | 13723.1 | 12177.3 | 11309.6 | 11206.4 |
| 62.5° | 9915.9  | 10124.7 | 11361.2 | 13736.0 | 16919.2 | 18890.6 | 16310.7 | 13038.5 | 10849.4 | 9654.2  | 9477.6  |
| 65°   | 6039.0  | 6259.4  | 7749.9  | 11305.7 | 16688.5 | 21046.3 | 15827.3 | 10822.3 | 7918.8  | 6432.2  | 6241.5  |
| 67.5° | 2012.6  | 2077.1  | 2955.1  | 6249.2  | 13115.9 | 18910.0 | 13137.8 | 6478.6  | 3446.3  | 2284.6  | 2217.5  |
| 70°   | 787.7   | 794.2   | 937.3   | 1811.5  | 6193.8  | 12988.3 | 6834.5  | 1843.7  | 979.9   | 774.9   | 791.6   |
| 72.5° | 578.9   | 581.5   | 621.4   | 756.8   | 1614.2  | 5721.8  | 1672.2  | 760.7   | 604.7   | 542.8   | 542.8   |
| 75°   | 465.4   | 465.4   | 493.8   | 551.8   | 723.3   | 1312.5  | 733.6   | 545.3   | 473.1   | 433.2   | 428.0   |
| 77.5° | 367.4   | 375.2   | 397.1   | 434.5   | 489.9   | 631.8   | 508.0   | 431.9   | 381.7   | 344.2   | 336.5   |
| 80°   | 273.3   | 281.0   | 317.2   | 335.2   | 351.9   | 438.4   | 375.2   | 337.8   | 301.7   | 257.9   | 250.1   |
| 82.5° | 179.2   | 187.0   | 232.0   | 242.4   | 238.5   | 286.3   | 252.7   | 248.8   | 221.8   | 166.3   | 158.5   |
| 85°   | 117.3   | 119.9   | 154.7   | 161.2   | 148.3   | 130.2   | 161.2   | 170.2   | 154.7   | 108.3   | 104.4   |
| 87.5° | 55.4    | 55.4    | 78.6    | 73.5    | 67.1    | 54.1    | 73.5    | 86.4    | 87.7    | 52.8    | 51.6    |
| 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)