

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P641926

Luminaire Tested: GWS-SA6B-830-U-5WQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641926  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6B-830-U-5WQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

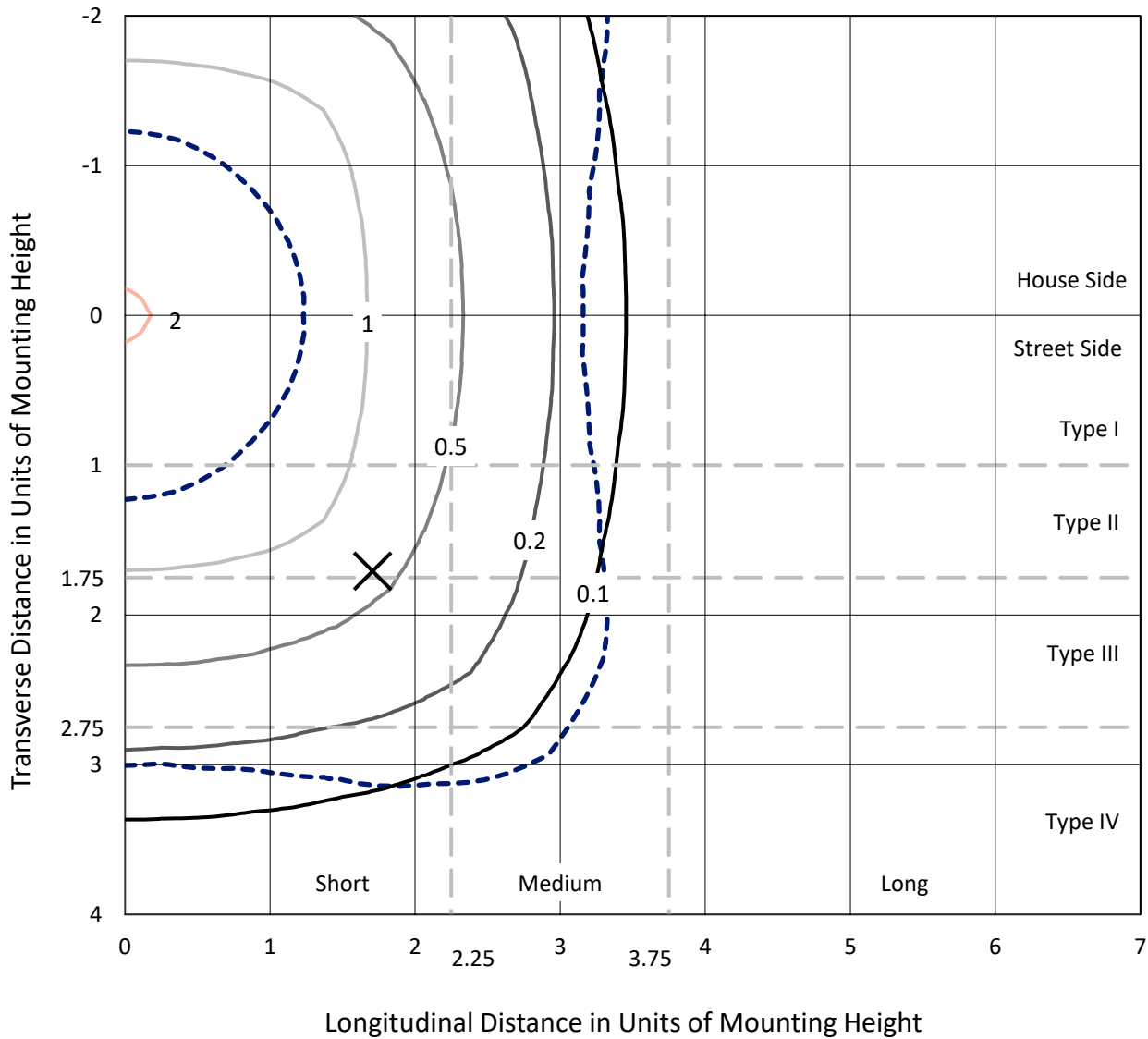
Lumens per Lamp: N/A  
Luminaire Lumens: 17051.3 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 138.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

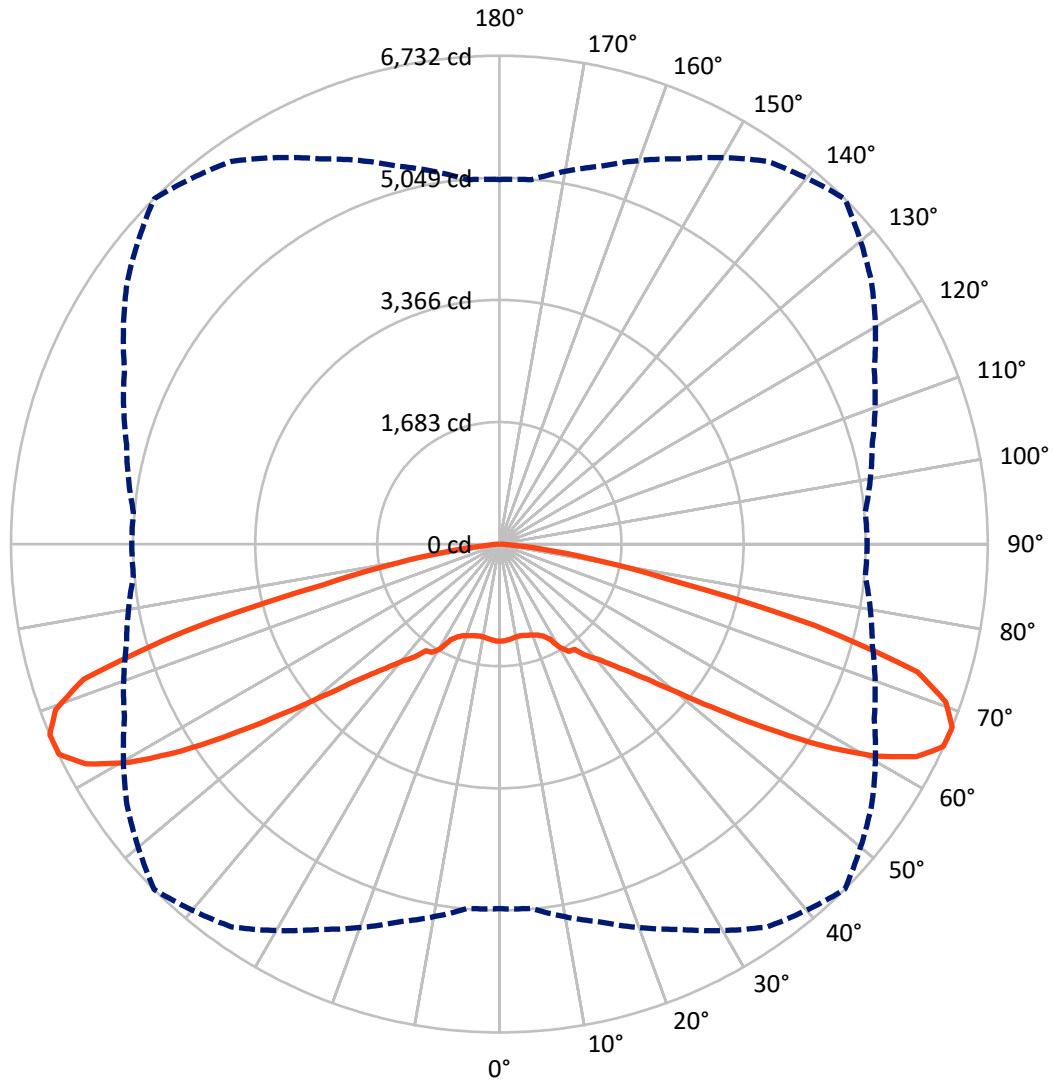
✕ Max cd  
 - - - 1/2 Max cd



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 67.5-Deg Vertical

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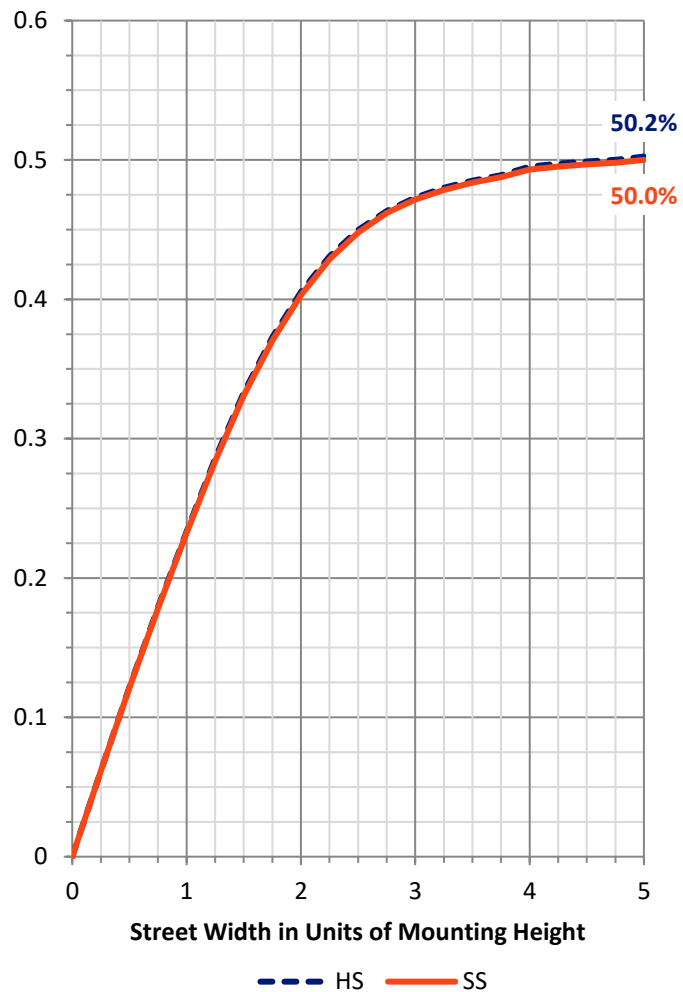
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8525.7   | 0.0    | 8525.7  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 8525.7   | 0.0    | 8525.7  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 17051.3  | 0.0    | 17051.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 125.5   | 0.7       |
| 10°-20°   | 372.6   | 2.2       |
| 20°-30°   | 668.4   | 3.9       |
| 30°-40°   | 1129.0  | 6.6       |
| 40°-50°   | 1983.7  | 11.6      |
| 50°-60°   | 3826.7  | 22.4      |
| 60°-70°   | 5552.0  | 32.6      |
| 70°-80°   | 3176.6  | 18.6      |
| 80°-90°   | 216.8   | 1.3       |
| 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°    | 17051.3 | 100.0     |
| 0°-180°   | 17051.3 | 100.0     |

**Coefficient of Utilization**



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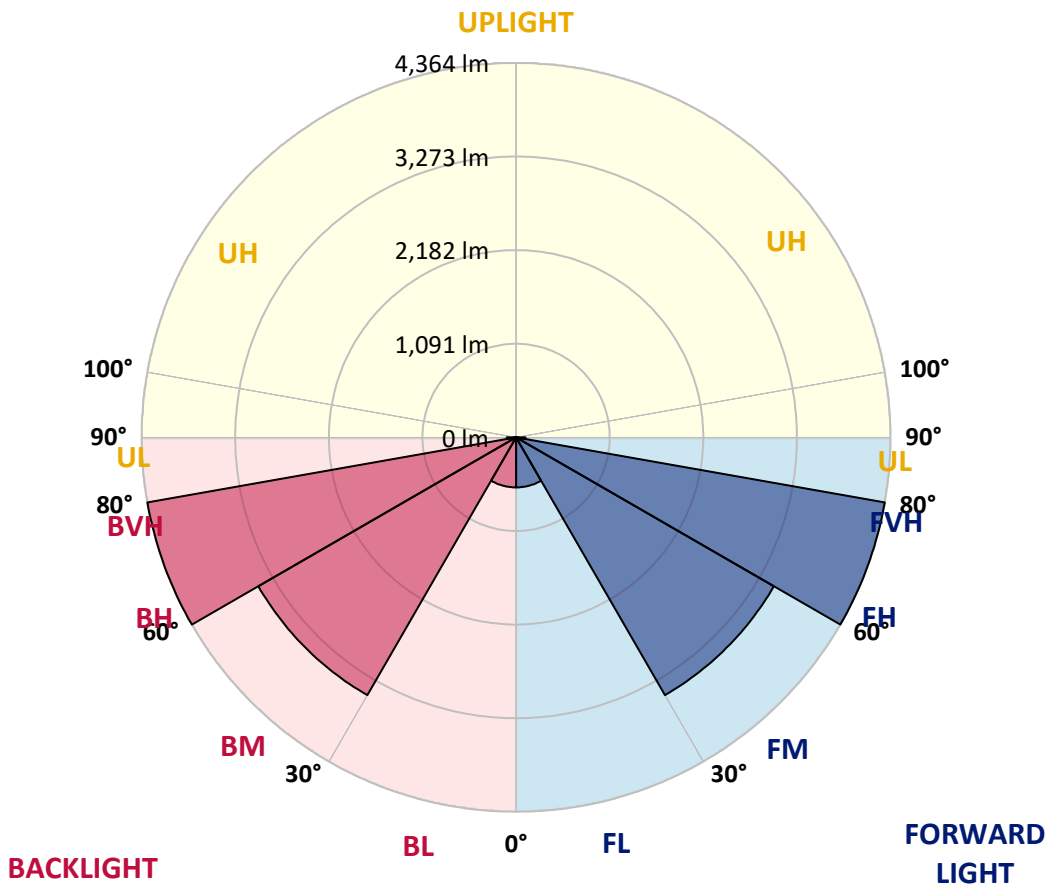
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 583.2  | 3.4       |                         |      |         |
| FM (30°-60°)   | 3469.7 | 20.3      |                         |      |         |
| FH (60°-80°)   | 4364.3 | 25.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 108.4  | 0.6       |                         |      | G2/225  |
| BL (0°-30°)    | 583.2  | 3.4       | B2/1000                 |      |         |
| BM (30°-60°)   | 3469.7 | 20.3      | B3/5000                 |      |         |
| BH (60°-80°)   | 4364.3 | 25.6      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 108.4  | 0.6       |                         |      | G2/225  |
| 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°    | 1337.2 | 1337.2 | 1337.2 | 1337.2 | 1337.2 | 1337.2 | 1337.2 | 1337.2 | 1337.2 | 1337.2 | 1337.2 |
| 2.5°  | 1326.3 | 1327.5 | 1329.9 | 1329.9 | 1332.3 | 1336.0 | 1337.2 | 1334.8 | 1336.0 | 1329.9 | 1336.0 |
| 5°    | 1322.7 | 1323.9 | 1325.1 | 1322.7 | 1322.7 | 1323.9 | 1323.9 | 1321.5 | 1322.7 | 1316.7 | 1322.7 |
| 7.5°  | 1314.3 | 1315.5 | 1315.5 | 1311.8 | 1308.2 | 1310.6 | 1310.6 | 1308.2 | 1309.4 | 1303.4 | 1310.6 |
| 10°   | 1307.0 | 1307.0 | 1305.8 | 1298.6 | 1295.0 | 1298.6 | 1299.8 | 1301.0 | 1305.8 | 1301.0 | 1309.4 |
| 12.5° | 1311.8 | 1311.8 | 1308.2 | 1298.6 | 1292.6 | 1295.0 | 1297.4 | 1299.8 | 1308.2 | 1307.0 | 1316.7 |
| 15°   | 1325.1 | 1326.3 | 1316.7 | 1305.8 | 1302.2 | 1305.8 | 1303.4 | 1302.2 | 1313.1 | 1316.7 | 1327.5 |
| 17.5° | 1336.0 | 1336.0 | 1323.9 | 1313.1 | 1314.3 | 1320.3 | 1315.5 | 1309.4 | 1320.3 | 1327.5 | 1339.6 |
| 20°   | 1345.6 | 1344.4 | 1331.1 | 1323.9 | 1328.7 | 1337.2 | 1333.6 | 1325.1 | 1332.3 | 1340.8 | 1351.6 |
| 22.5° | 1369.7 | 1368.5 | 1354.1 | 1350.4 | 1355.3 | 1363.7 | 1360.1 | 1352.8 | 1361.3 | 1373.3 | 1386.6 |
| 25°   | 1438.5 | 1436.0 | 1414.3 | 1402.3 | 1399.9 | 1405.9 | 1404.7 | 1402.3 | 1415.5 | 1430.0 | 1445.7 |
| 27.5° | 1530.1 | 1528.9 | 1513.2 | 1501.2 | 1485.5 | 1480.7 | 1484.3 | 1495.1 | 1514.4 | 1525.3 | 1538.5 |
| 30°   | 1575.9 | 1575.9 | 1573.5 | 1592.8 | 1626.5 | 1659.1 | 1633.8 | 1592.8 | 1575.9 | 1571.1 | 1584.3 |
| 32.5° | 1636.2 | 1642.2 | 1633.8 | 1655.5 | 1712.2 | 1760.4 | 1712.2 | 1645.8 | 1633.8 | 1633.8 | 1648.3 |
| 35°   | 1774.9 | 1777.3 | 1764.0 | 1760.4 | 1778.5 | 1784.5 | 1761.6 | 1737.5 | 1750.7 | 1753.2 | 1771.2 |
| 37.5° | 1885.8 | 1885.8 | 1879.8 | 1889.4 | 1926.8 | 1949.7 | 1912.3 | 1868.9 | 1872.5 | 1874.9 | 1897.8 |
| 40°   | 2057.0 | 2061.8 | 2047.4 | 2046.1 | 2060.6 | 2081.1 | 2041.3 | 2013.6 | 2032.9 | 2038.9 | 2073.9 |
| 42.5° | 2270.4 | 2270.4 | 2248.7 | 2242.7 | 2252.3 | 2274.0 | 2236.7 | 2218.6 | 2243.9 | 2248.7 | 2269.2 |
| 45°   | 2524.8 | 2530.9 | 2501.9 | 2491.1 | 2495.9 | 2503.1 | 2476.6 | 2468.2 | 2492.3 | 2503.1 | 2539.3 |
| 47.5° | 2834.7 | 2840.7 | 2815.4 | 2814.2 | 2809.4 | 2814.2 | 2788.9 | 2784.1 | 2803.4 | 2794.9 | 2833.5 |
| 50°   | 3216.9 | 3227.8 | 3206.1 | 3236.2 | 3232.6 | 3247.1 | 3212.1 | 3186.8 | 3186.8 | 3163.9 | 3185.6 |
| 52.5° | 3645.0 | 3666.7 | 3677.5 | 3728.2 | 3766.7 | 3802.9 | 3745.0 | 3705.3 | 3647.4 | 3600.4 | 3659.4 |
| 55°   | 4111.6 | 4105.6 | 4174.3 | 4285.2 | 4398.6 | 4484.2 | 4370.8 | 4245.4 | 4151.4 | 4053.7 | 4076.6 |
| 57.5° | 4520.3 | 4540.8 | 4631.3 | 4833.8 | 5058.1 | 5239.0 | 5035.2 | 4794.0 | 4580.6 | 4440.8 | 4460.0 |
| 60°   | 4860.4 | 4877.2 | 4997.8 | 5289.6 | 5681.5 | 5931.1 | 5607.9 | 5210.0 | 4900.1 | 4707.2 | 4727.7 |
| 62.5° | 5173.8 | 5189.5 | 5311.3 | 5633.2 | 6127.6 | 6453.1 | 6036.0 | 5492.2 | 5147.3 | 4953.2 | 4965.3 |
| 65°   | 5354.7 | 5364.4 | 5530.7 | 5869.6 | 6390.4 | 6726.8 | 6256.6 | 5695.9 | 5357.1 | 5159.4 | 5166.6 |
| 67.5° | 5025.5 | 5041.2 | 5392.1 | 5859.9 | 6441.1 | 6731.7 | 6266.3 | 5702.0 | 5320.9 | 5062.9 | 5068.9 |
| 70°   | 3964.5 | 3951.2 | 4369.6 | 5173.8 | 6150.5 | 6529.1 | 5987.7 | 5273.9 | 4685.5 | 4325.0 | 4319.0 |
| 72.5° | 3022.8 | 3026.4 | 3259.1 | 3810.2 | 5014.7 | 6025.1 | 5283.6 | 4246.6 | 3612.4 | 3338.7 | 3327.9 |
| 75°   | 2192.0 | 2225.8 | 2415.1 | 2819.0 | 3507.5 | 4503.5 | 3977.7 | 3147.0 | 2722.6 | 2558.6 | 2534.5 |
| 77.5° | 987.5  | 1030.9 | 1295.0 | 1770.0 | 2345.2 | 2488.7 | 2498.3 | 2136.6 | 1612.1 | 1339.6 | 1297.4 |
| 80°   | 288.2  | 308.7  | 396.7  | 678.8  | 1092.4 | 1411.9 | 1121.3 | 942.9  | 587.2  | 460.6  | 438.9  |
| 82.5° | 121.8  | 138.7  | 170.0  | 188.1  | 317.1  | 654.7  | 407.5  | 259.2  | 241.1  | 195.3  | 178.5  |
| 85°   | 51.8   | 55.5   | 71.1   | 76.0   | 102.5  | 139.9  | 129.0  | 117.0  | 112.1  | 86.8   | 79.6   |
| 87.5° | 21.7   | 21.7   | 21.7   | 19.3   | 18.1   | 19.3   | 26.5   | 33.8   | 44.6   | 35.0   | 32.6   |
| 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)