

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: P533170

Luminaire Tested: **GALN-SA8C-750-U-RW-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533170  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-750-U-RW-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49745 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

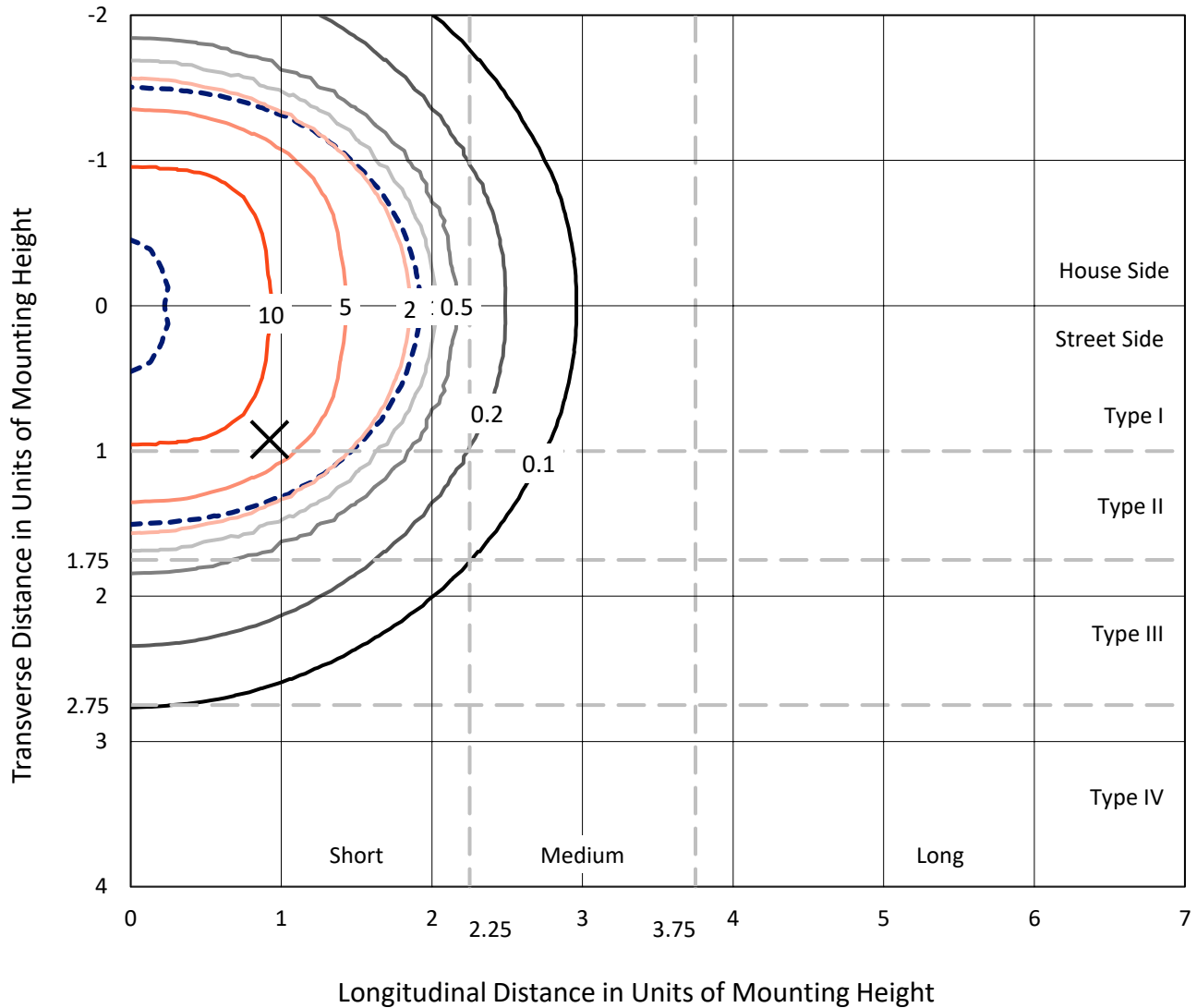
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

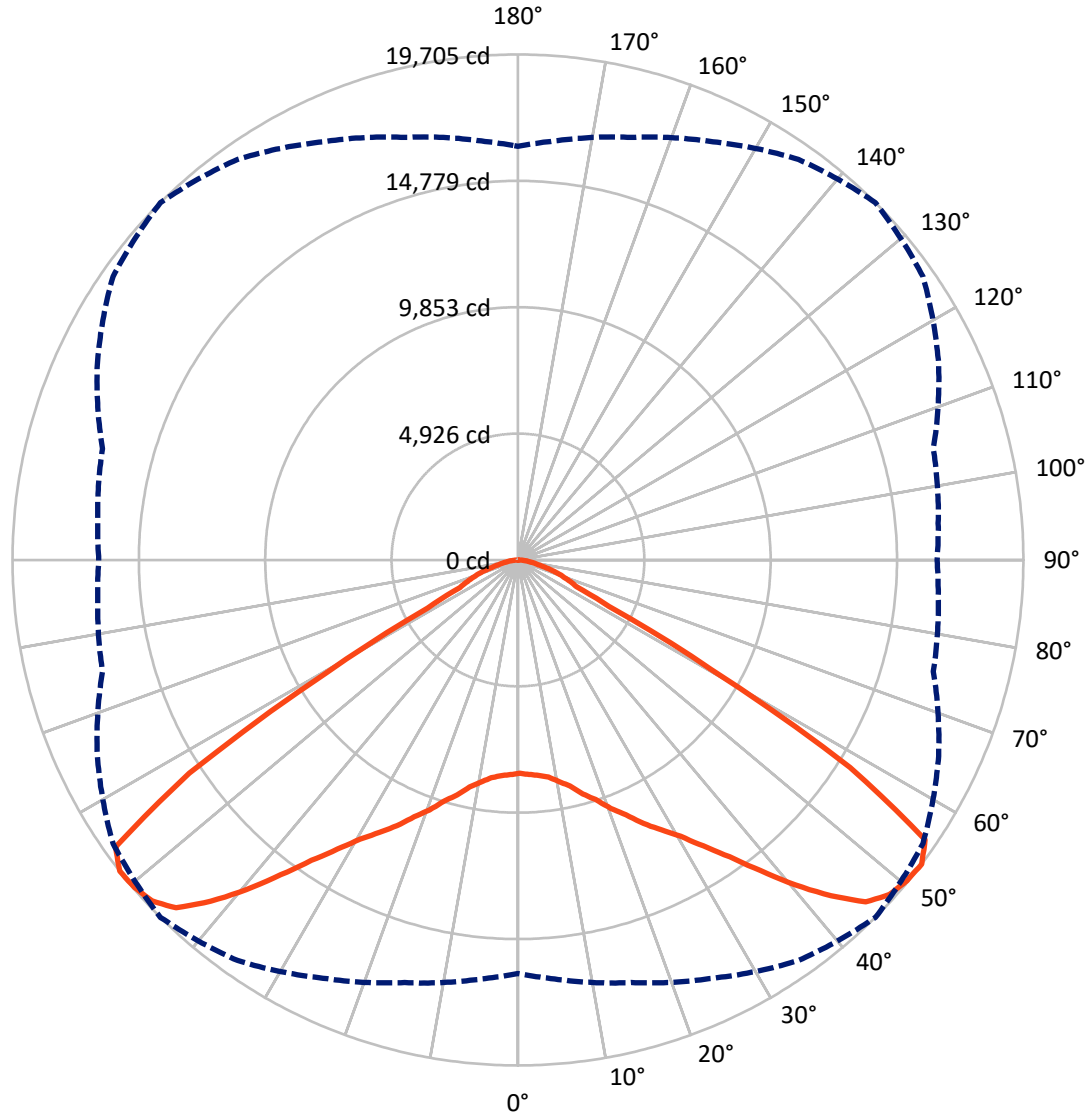
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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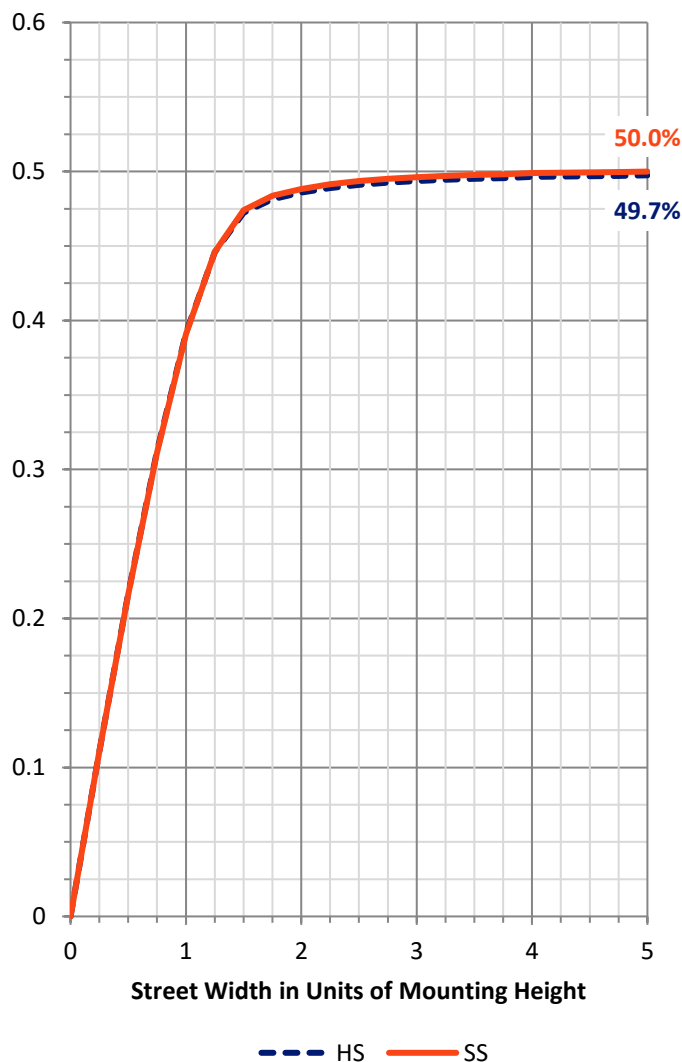
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 24872.5  | 0.0    | 24872.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 24872.5  | 0.0    | 24872.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 49745.0  | 0.0    | 49745.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 817.0   | 1.6       |
| 10°-20°   | 2684.5  | 5.4       |
| 20°-30°   | 5111.0  | 10.3      |
| 30°-40°   | 8775.9  | 17.6      |
| 40°-50°   | 13488.8 | 27.1      |
| 50°-60°   | 13697.6 | 27.5      |
| 60°-70°   | 3817.3  | 7.7       |
| 70°-80°   | 1126.1  | 2.3       |
| 80°-90°   | 226.8   | 0.5       |
| 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°    | 49745.0 | 100.0     |
| 0°-180°   | 49745.0 | 100.0     |

**Coefficient of Utilization**



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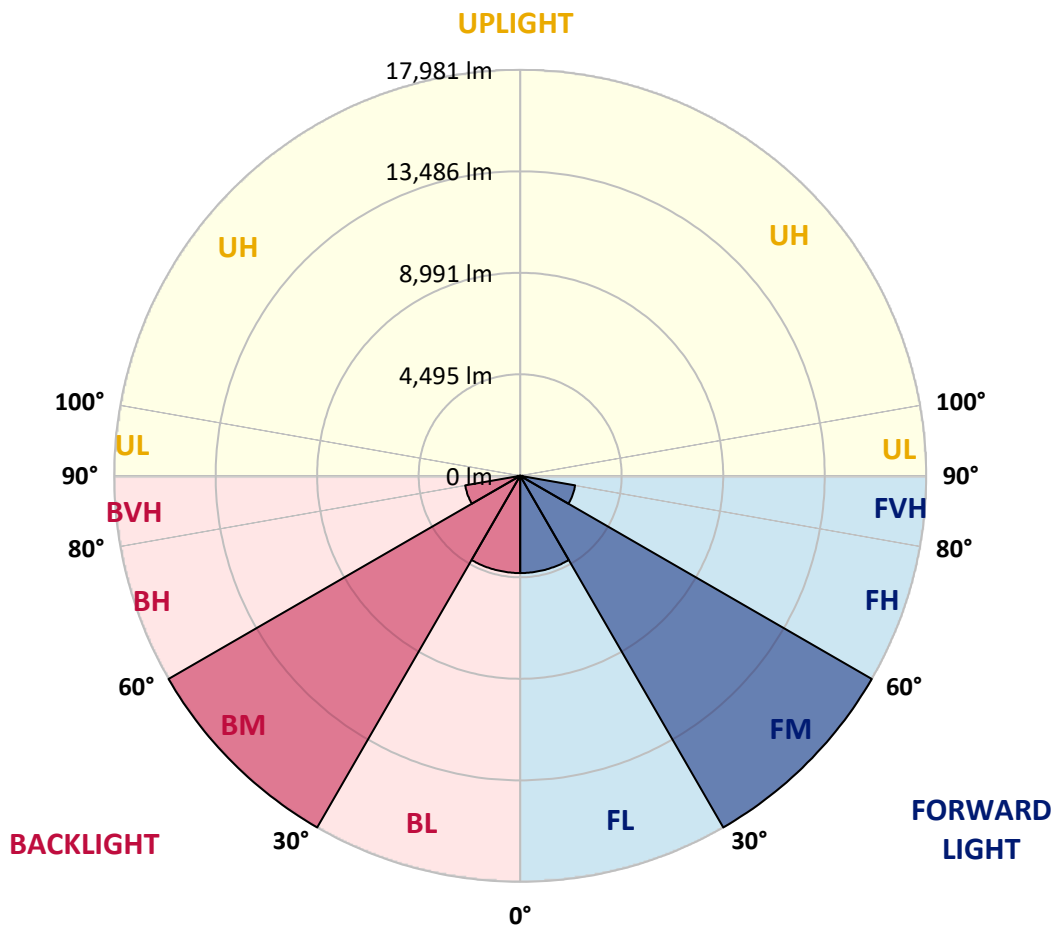
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4306.2  | 8.7       |                         |      |         |
| FM (30°-60°)   | 17981.1 | 36.1      |                         |      |         |
| FH (60°-80°)   | 2471.7  | 5.0       |                         |      | G2/5000 |
| FVH (80°-90°)  | 113.4   | 0.2       |                         |      | G2/225  |
| BL (0°-30°)    | 4306.2  | 8.7       | B4/5000                 |      |         |
| BM (30°-60°)   | 17981.1 | 36.1      | B5                      |      |         |
| BH (60°-80°)   | 2471.7  | 5.0       | B3/2500                 |      | G2/5000 |
| BVH (80°-90°)  | 113.4   | 0.2       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8315.5  | 8315.5  | 8315.5  | 8315.5  | 8315.5  | 8315.5  | 8315.5  | 8315.5  | 8315.5  | 8315.5  | 8315.5  |
| 2.5°  | 8334.1  | 8247.6  | 8278.5  | 8297.0  | 8377.3  | 8371.1  | 8352.6  | 8377.3  | 8402.0  | 8408.1  | 8395.8  |
| 5°    | 8327.9  | 8266.1  | 8290.8  | 8309.4  | 8389.6  | 8432.8  | 8420.5  | 8525.4  | 8599.5  | 8581.0  | 8673.6  |
| 7.5°  | 8278.5  | 8315.5  | 8284.7  | 8377.3  | 8445.2  | 8550.1  | 8661.2  | 8760.0  | 8852.6  | 8957.6  | 8976.1  |
| 10°   | 8389.6  | 8389.6  | 8445.2  | 8519.3  | 8698.3  | 8778.5  | 8939.0  | 9081.0  | 9260.1  | 9383.5  | 9334.1  |
| 12.5° | 8506.9  | 8525.4  | 8525.4  | 8716.8  | 8865.0  | 9044.0  | 9192.2  | 9383.5  | 9636.6  | 9784.8  | 9858.9  |
| 15°   | 8624.2  | 8636.5  | 8698.3  | 8957.6  | 9179.8  | 9463.8  | 9599.6  | 9772.4  | 9914.4  | 10192.2 | 10198.4 |
| 17.5° | 8729.1  | 8797.1  | 8982.3  | 9272.4  | 9550.2  | 9821.8  | 10037.9 | 10216.9 | 10340.4 | 10451.5 | 10426.8 |
| 20°   | 9124.2  | 9173.6  | 9365.0  | 9655.2  | 10068.8 | 10334.2 | 10408.3 | 10439.2 | 10519.4 | 10741.7 | 10673.8 |
| 22.5° | 9507.0  | 9525.5  | 9704.5  | 10149.0 | 10439.2 | 10791.1 | 10871.3 | 10852.8 | 10883.7 | 10939.2 | 11038.0 |
| 25°   | 9902.1  | 9933.0  | 10179.9 | 10556.5 | 10963.9 | 11383.7 | 11451.6 | 11309.6 | 11266.4 | 11328.1 | 11334.3 |
| 27.5° | 10408.3 | 10414.5 | 10729.3 | 11056.5 | 11519.5 | 11914.6 | 12019.6 | 11908.4 | 11704.7 | 11754.1 | 11834.4 |
| 30°   | 11050.3 | 11007.1 | 11322.0 | 11791.1 | 12278.8 | 12501.1 | 12680.1 | 12624.5 | 12402.3 | 12359.1 | 12291.2 |
| 32.5° | 11791.1 | 11803.5 | 12087.5 | 12599.9 | 12920.9 | 13291.3 | 13482.6 | 13390.0 | 13248.1 | 13174.0 | 13217.2 |
| 35°   | 12834.4 | 12890.0 | 13081.4 | 13507.3 | 14025.9 | 14211.1 | 14513.6 | 14316.1 | 13945.6 | 14038.2 | 14118.5 |
| 37.5° | 13692.5 | 13853.0 | 14211.1 | 14717.3 | 15026.0 | 15365.5 | 15476.6 | 15211.2 | 14939.6 | 14828.4 | 15093.9 |
| 40°   | 15007.5 | 14958.1 | 15353.2 | 15859.4 | 16316.2 | 16655.8 | 16513.8 | 16248.3 | 15575.4 | 15581.6 | 15655.7 |
| 42.5° | 16137.2 | 16161.9 | 16464.4 | 17069.4 | 17692.9 | 17902.8 | 17452.1 | 16803.9 | 16056.9 | 15976.7 | 16137.2 |
| 45°   | 17087.9 | 17186.7 | 17359.5 | 18168.2 | 18779.4 | 19007.8 | 18174.4 | 17408.9 | 16408.8 | 16075.5 | 16340.9 |
| 47.5° | 17427.4 | 17587.9 | 17964.5 | 18705.3 | 19310.3 | 19495.5 | 18828.8 | 17729.9 | 16736.0 | 16192.8 | 16334.7 |
| 50°   | 17476.8 | 17421.3 | 18038.6 | 18717.7 | 19248.6 | 19649.8 | 19063.4 | 17964.5 | 16655.8 | 16371.8 | 16328.6 |
| 52.5° | 16124.8 | 16396.5 | 17057.0 | 17989.2 | 19063.4 | 19705.4 | 19273.3 | 18094.2 | 16766.9 | 16445.9 | 16340.9 |
| 55°   | 13050.5 | 12729.5 | 13933.3 | 15501.3 | 17476.8 | 19260.9 | 19199.2 | 18162.1 | 16834.8 | 16569.3 | 16427.3 |
| 57.5° | 7284.6  | 7377.2  | 8056.3  | 9760.1  | 12309.7 | 15272.9 | 17069.4 | 17445.9 | 16803.9 | 16649.6 | 16723.7 |
| 60°   | 3370.7  | 3401.5  | 3691.7  | 4488.0  | 6068.4  | 8661.2  | 11025.6 | 13427.1 | 14532.1 | 14754.4 | 14754.4 |
| 62.5° | 2512.6  | 2500.2  | 2574.3  | 2716.3  | 3049.6  | 3981.8  | 5315.3  | 7222.8  | 8741.5  | 9803.3  | 10081.1 |
| 65°   | 2271.8  | 2265.6  | 2302.7  | 2352.1  | 2376.7  | 2506.4  | 2802.7  | 3389.2  | 3883.1  | 4167.0  | 4117.6  |
| 67.5° | 1987.8  | 1981.7  | 1994.0  | 2024.9  | 2068.1  | 2136.0  | 2210.1  | 2333.5  | 2506.4  | 2494.0  | 2463.2  |
| 70°   | 1605.1  | 1605.1  | 1623.6  | 1648.3  | 1697.7  | 1777.9  | 1864.4  | 1950.8  | 2098.9  | 2129.8  | 2123.6  |
| 72.5° | 1185.3  | 1166.8  | 1203.8  | 1253.2  | 1302.6  | 1401.4  | 1494.0  | 1574.2  | 1679.2  | 1710.0  | 1697.7  |
| 75°   | 753.2   | 765.5   | 790.2   | 845.8   | 932.2   | 1000.1  | 1098.9  | 1166.8  | 1234.7  | 1259.4  | 1265.5  |
| 77.5° | 419.8   | 432.1   | 475.3   | 543.3   | 629.7   | 703.8   | 790.2   | 845.8   | 889.0   | 895.1   | 901.3   |
| 80°   | 253.1   | 259.3   | 302.5   | 364.2   | 438.3   | 518.6   | 586.5   | 642.0   | 679.1   | 660.6   | 654.4   |
| 82.5° | 154.3   | 160.5   | 197.5   | 253.1   | 314.8   | 376.6   | 450.7   | 500.0   | 537.1   | 512.4   | 487.7   |
| 85°   | 80.3    | 86.4    | 117.3   | 154.3   | 203.7   | 234.6   | 234.6   | 209.9   | 203.7   | 191.4   | 185.2   |
| 87.5° | 24.7    | 24.7    | 30.9    | 37.0    | 30.9    | 37.0    | 43.2    | 49.4    | 49.4    | 55.6    | 49.4    |
| 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)