

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: P533842

Luminaire Tested: **GALN-SA9B-740-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533842  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-740-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43763 lumens  
Efficiency: N/A  
Efficacy: 120.2 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

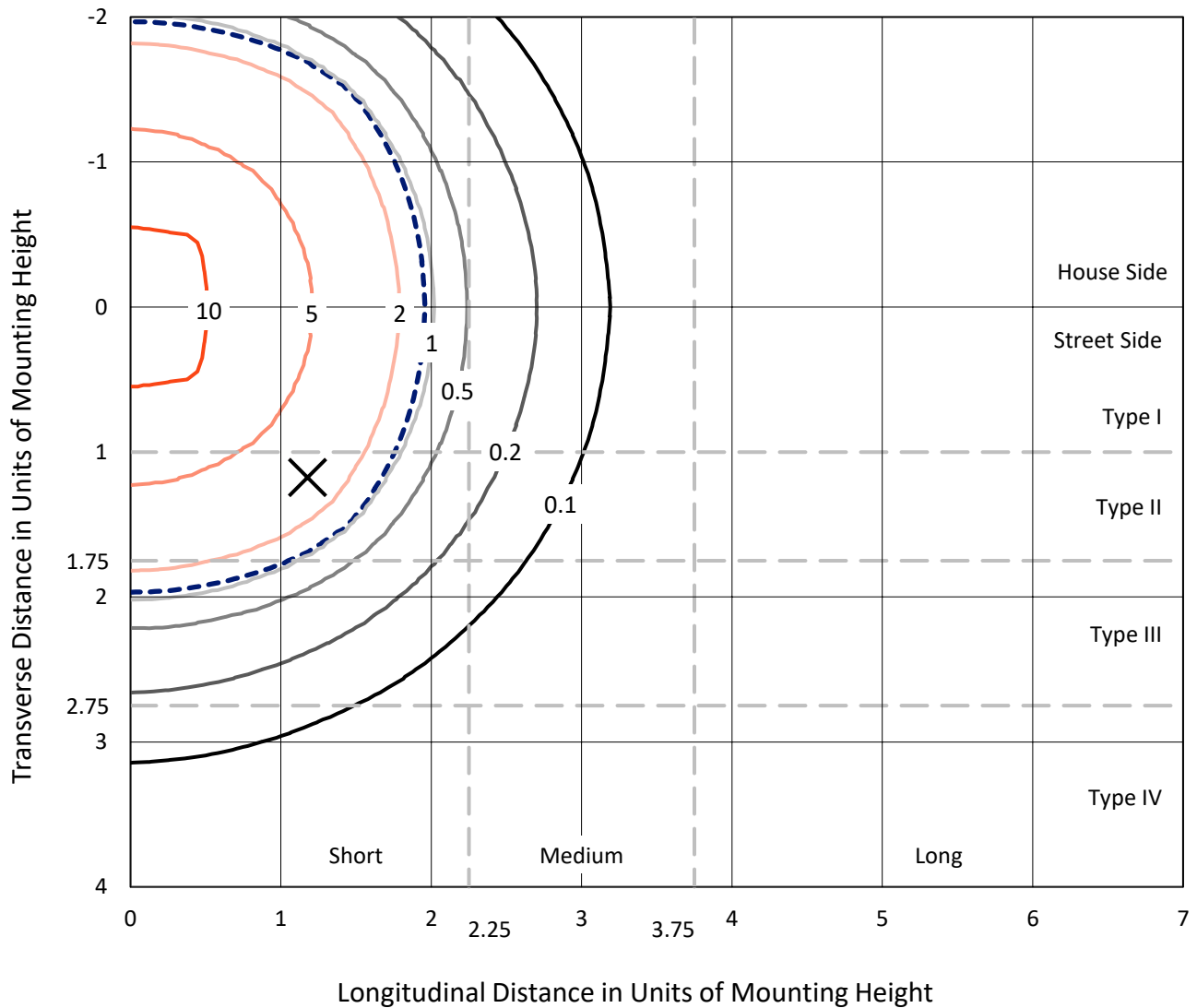
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

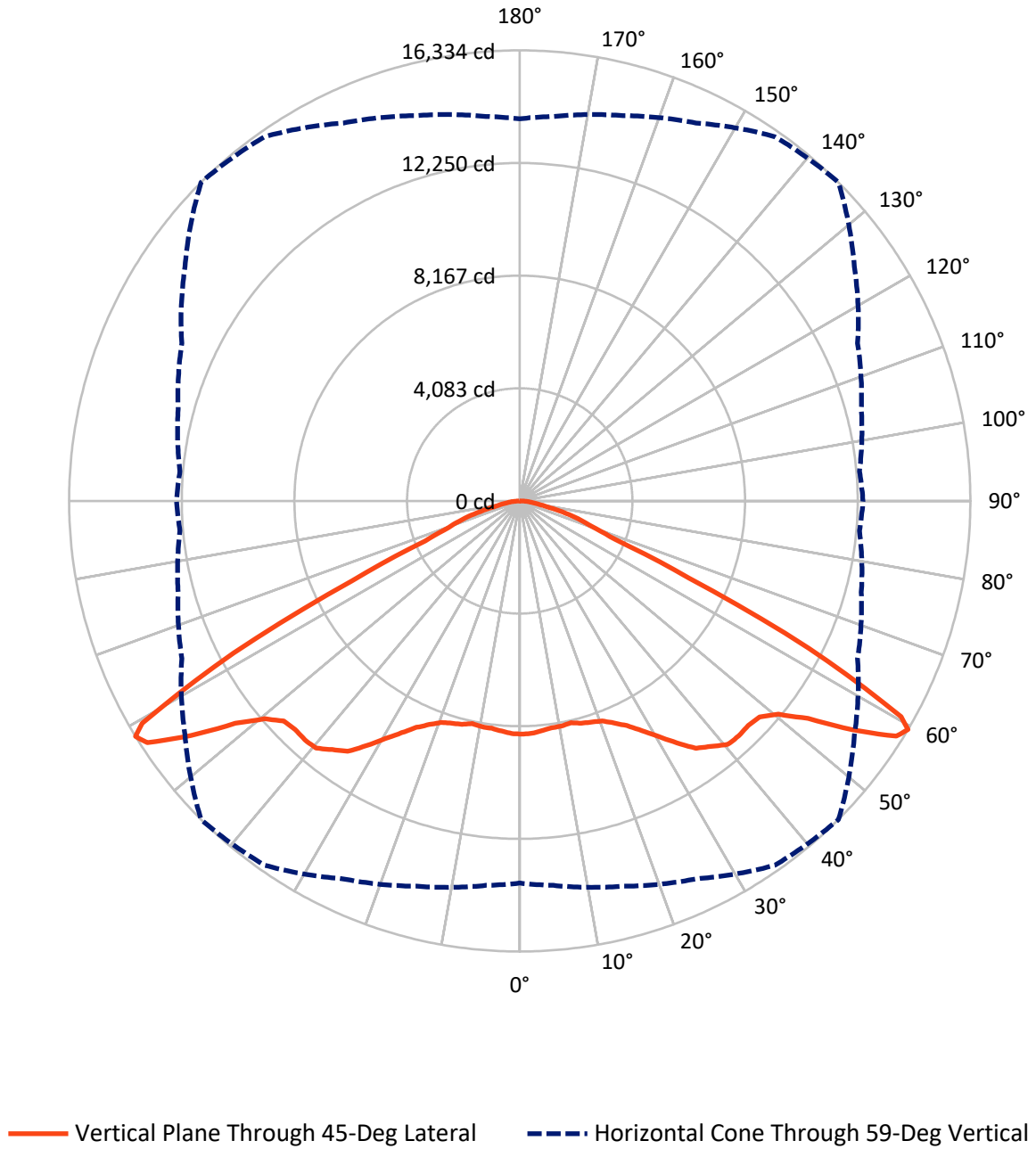
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 21881.5  | 0.0    | 21881.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 21881.5  | 0.0    | 21881.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 43763.0  | 0.0    | 43763.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 796.8   | 1.8       |
| 10°-20°   | 2369.7  | 5.4       |
| 20°-30°   | 4137.7  | 9.5       |
| 30°-40°   | 6608.5  | 15.1      |
| 40°-50°   | 9002.1  | 20.6      |
| 50°-60°   | 12173.2 | 27.8      |
| 60°-70°   | 6675.8  | 15.3      |
| 70°-80°   | 1707.9  | 3.9       |
| 80°-90°   | 291.3   | 0.7       |
| 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°    | 43763.0 | 100.0     |
| 0°-180°   | 43763.0 | 100.0     |

**Coefficient of Utilization**



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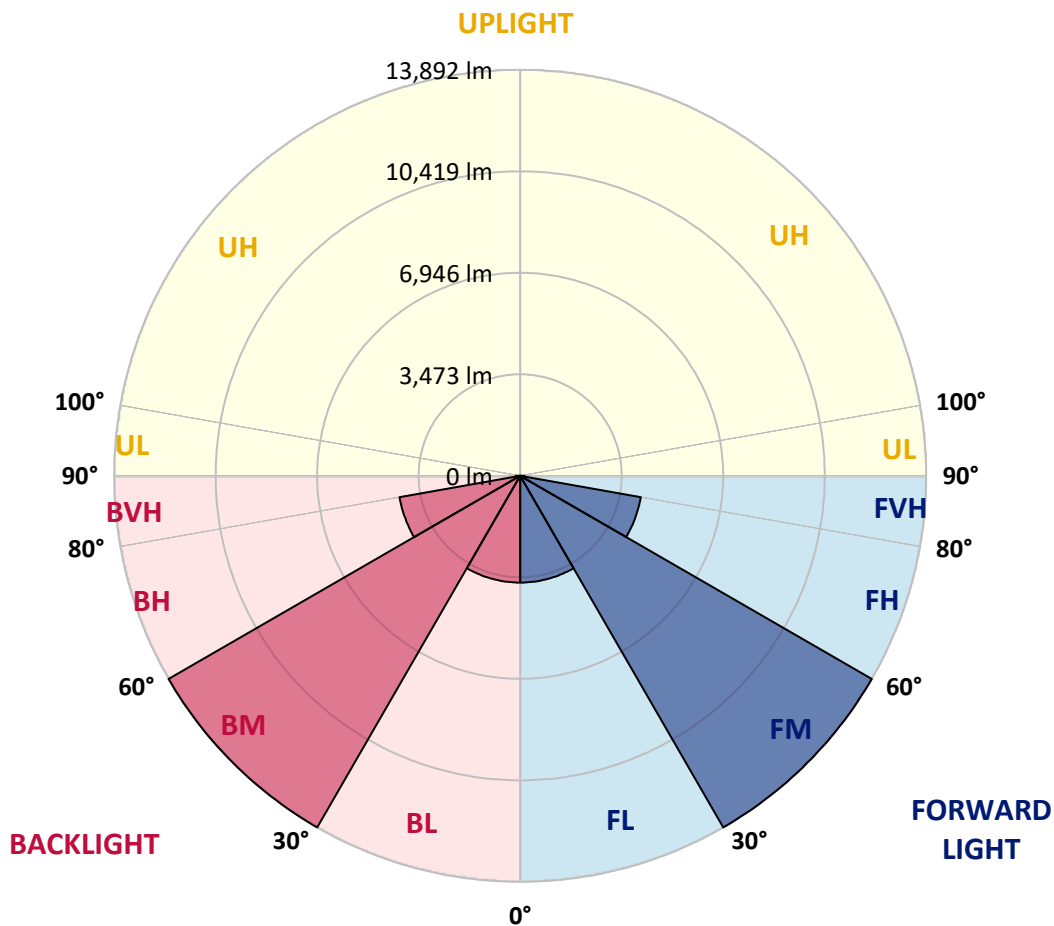
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3652.1  | 8.3       |                         |      |         |
| FM (30°-60°)   | 13891.9 | 31.7      |                         |      |         |
| FH (60°-80°)   | 4191.9  | 9.6       |                         |      | G2/5000 |
| FVH (80°-90°)  | 145.6   | 0.3       |                         |      | G2/225  |
| BL (0°-30°)    | 3652.1  | 8.3       | B4/5000                 |      |         |
| BM (30°-60°)   | 13891.9 | 31.7      | B5                      |      |         |
| BH (60°-80°)   | 4191.9  | 9.6       | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 145.6   | 0.3       |                         |      | 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°    | 8452.9  | 8452.9  | 8452.9  | 8452.9  | 8452.9  | 8452.9  | 8452.9  | 8452.9  | 8452.9  | 8452.9  | 8452.9  |
| 2.5°  | 8402.4  | 8464.1  | 8419.3  | 8458.5  | 8452.9  | 8436.1  | 8408.0  | 8391.2  | 8368.8  | 8402.4  | 8346.3  |
| 5°    | 8368.8  | 8419.3  | 8469.7  | 8402.4  | 8402.4  | 8368.8  | 8352.0  | 8318.3  | 8318.3  | 8312.7  | 8307.1  |
| 7.5°  | 8424.9  | 8374.4  | 8352.0  | 8363.2  | 8374.4  | 8301.5  | 8352.0  | 8284.6  | 8228.6  | 8267.8  | 8312.7  |
| 10°   | 8374.4  | 8396.8  | 8312.7  | 8352.0  | 8290.3  | 8301.5  | 8267.8  | 8312.7  | 8251.0  | 8251.0  | 8251.0  |
| 12.5° | 8424.9  | 8363.2  | 8391.2  | 8363.2  | 8346.3  | 8251.0  | 8295.9  | 8245.4  | 8239.8  | 8295.9  | 8245.4  |
| 15°   | 8525.8  | 8424.9  | 8402.4  | 8346.3  | 8363.2  | 8363.2  | 8318.3  | 8323.9  | 8262.2  | 8295.9  | 8307.1  |
| 17.5° | 8492.2  | 8436.1  | 8419.3  | 8352.0  | 8408.0  | 8424.9  | 8340.7  | 8284.6  | 8323.9  | 8318.3  | 8312.7  |
| 20°   | 8520.2  | 8542.7  | 8525.8  | 8537.1  | 8559.5  | 8514.6  | 8436.1  | 8357.6  | 8307.1  | 8380.0  | 8374.4  |
| 22.5° | 8699.7  | 8677.3  | 8666.1  | 8654.8  | 8694.1  | 8739.0  | 8632.4  | 8509.0  | 8509.0  | 8559.5  | 8581.9  |
| 25°   | 8845.6  | 8839.9  | 8834.3  | 8884.8  | 9019.4  | 9019.4  | 8884.8  | 8727.8  | 8688.5  | 8722.2  | 8694.1  |
| 27.5° | 9058.7  | 9120.4  | 9098.0  | 9187.7  | 9384.0  | 9428.9  | 9249.4  | 9064.3  | 8957.7  | 8918.5  | 8969.0  |
| 30°   | 9546.7  | 9473.8  | 9490.6  | 9586.0  | 9759.8  | 9905.7  | 9630.8  | 9434.5  | 9288.7  | 9283.1  | 9305.5  |
| 32.5° | 9872.0  | 9928.1  | 9978.6  | 10068.3 | 10343.2 | 10455.4 | 10124.4 | 9804.7  | 9715.0  | 9664.5  | 9681.3  |
| 35°   | 10522.7 | 10472.2 | 10461.0 | 10550.7 | 10825.6 | 11010.7 | 10595.6 | 10315.1 | 10197.3 | 10309.5 | 10309.5 |
| 37.5° | 11139.7 | 10999.5 | 10892.9 | 11010.7 | 11263.1 | 11285.5 | 10932.1 | 10780.7 | 10719.0 | 10848.0 | 10842.4 |
| 40°   | 11431.4 | 11420.1 | 11173.3 | 11240.6 | 11577.2 | 11610.8 | 11279.9 | 11100.4 | 11089.2 | 11257.5 | 11425.7 |
| 42.5° | 11734.2 | 11627.7 | 11380.9 | 11425.7 | 11633.3 | 11644.5 | 11330.4 | 11279.9 | 11403.3 | 11566.0 | 11577.2 |
| 45°   | 11784.7 | 11695.0 | 11537.9 | 11425.7 | 11577.2 | 11610.8 | 11425.7 | 11459.4 | 11470.6 | 11666.9 | 11666.9 |
| 47.5° | 11885.7 | 11874.5 | 11784.7 | 11700.6 | 11728.6 | 11700.6 | 11582.8 | 11633.3 | 11801.6 | 11896.9 | 11852.0 |
| 50°   | 12166.1 | 12048.4 | 12138.1 | 12065.2 | 12070.8 | 12149.3 | 12042.7 | 12093.2 | 12059.6 | 11975.4 | 11919.3 |
| 52.5° | 12783.1 | 12727.1 | 12805.6 | 12856.1 | 12912.2 | 13091.6 | 12968.2 | 12699.0 | 12446.6 | 12222.2 | 12216.6 |
| 55°   | 13686.2 | 13725.5 | 13876.9 | 14134.9 | 14353.7 | 14639.8 | 14045.2 | 13400.1 | 12996.3 | 12642.9 | 12665.4 |
| 57.5° | 14538.8 | 14510.8 | 14718.3 | 15307.2 | 15946.7 | 16092.5 | 14925.8 | 14005.9 | 13349.7 | 13125.3 | 13029.9 |
| 59°   | 13854.5 | 13989.1 | 14460.3 | 15116.5 | 16120.6 | 16333.7 | 14808.0 | 13512.3 | 12816.8 | 12362.5 | 12441.0 |
| 60°   | 12777.5 | 12828.0 | 13248.7 | 14163.0 | 15520.4 | 15885.0 | 14017.1 | 12749.5 | 11824.0 | 11560.4 | 11678.2 |
| 62.5° | 9030.7  | 8991.4  | 9294.3  | 10040.3 | 11257.5 | 11751.1 | 10421.7 | 9529.9  | 8946.5  | 8654.8  | 8722.2  |
| 65°   | 4801.4  | 4980.9  | 5104.3  | 5569.8  | 6214.9  | 6736.5  | 6186.8  | 5799.8  | 5474.5  | 5233.3  | 5227.7  |
| 67.5° | 3242.1  | 3219.6  | 3247.7  | 3354.2  | 3573.0  | 3718.8  | 3707.6  | 3511.3  | 3483.3  | 3438.4  | 3488.9  |
| 70°   | 2731.6  | 2720.4  | 2669.9  | 2669.9  | 2714.8  | 2748.5  | 2787.7  | 2810.2  | 2855.0  | 2911.1  | 2905.5  |
| 72.5° | 2215.6  | 2187.6  | 2153.9  | 2137.1  | 2193.2  | 2210.0  | 2260.5  | 2282.9  | 2322.2  | 2316.6  | 2367.0  |
| 75°   | 1464.0  | 1464.0  | 1503.2  | 1548.1  | 1564.9  | 1598.6  | 1604.2  | 1671.5  | 1671.5  | 1682.7  | 1637.9  |
| 77.5° | 818.9   | 796.5   | 824.5   | 869.4   | 908.7   | 970.4   | 1032.1  | 1082.6  | 1110.6  | 1099.4  | 1099.4  |
| 80°   | 476.8   | 476.8   | 504.8   | 555.3   | 605.8   | 661.9   | 706.7   | 746.0   | 774.1   | 762.8   | 740.4   |
| 82.5° | 297.3   | 297.3   | 325.3   | 375.8   | 415.1   | 448.7   | 510.4   | 560.9   | 594.6   | 583.3   | 555.3   |
| 85°   | 151.4   | 151.4   | 185.1   | 218.8   | 269.2   | 291.7   | 286.1   | 263.6   | 258.0   | 230.0   | 230.0   |
| 87.5° | 39.3    | 39.3    | 56.1    | 61.7    | 50.5    | 56.1    | 56.1    | 56.1    | 56.1    | 56.1    | 61.7    |
| 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)