

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: P452283

Luminaire Tested: **GALN-SA3B-727-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452283  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3B-727-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14657 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

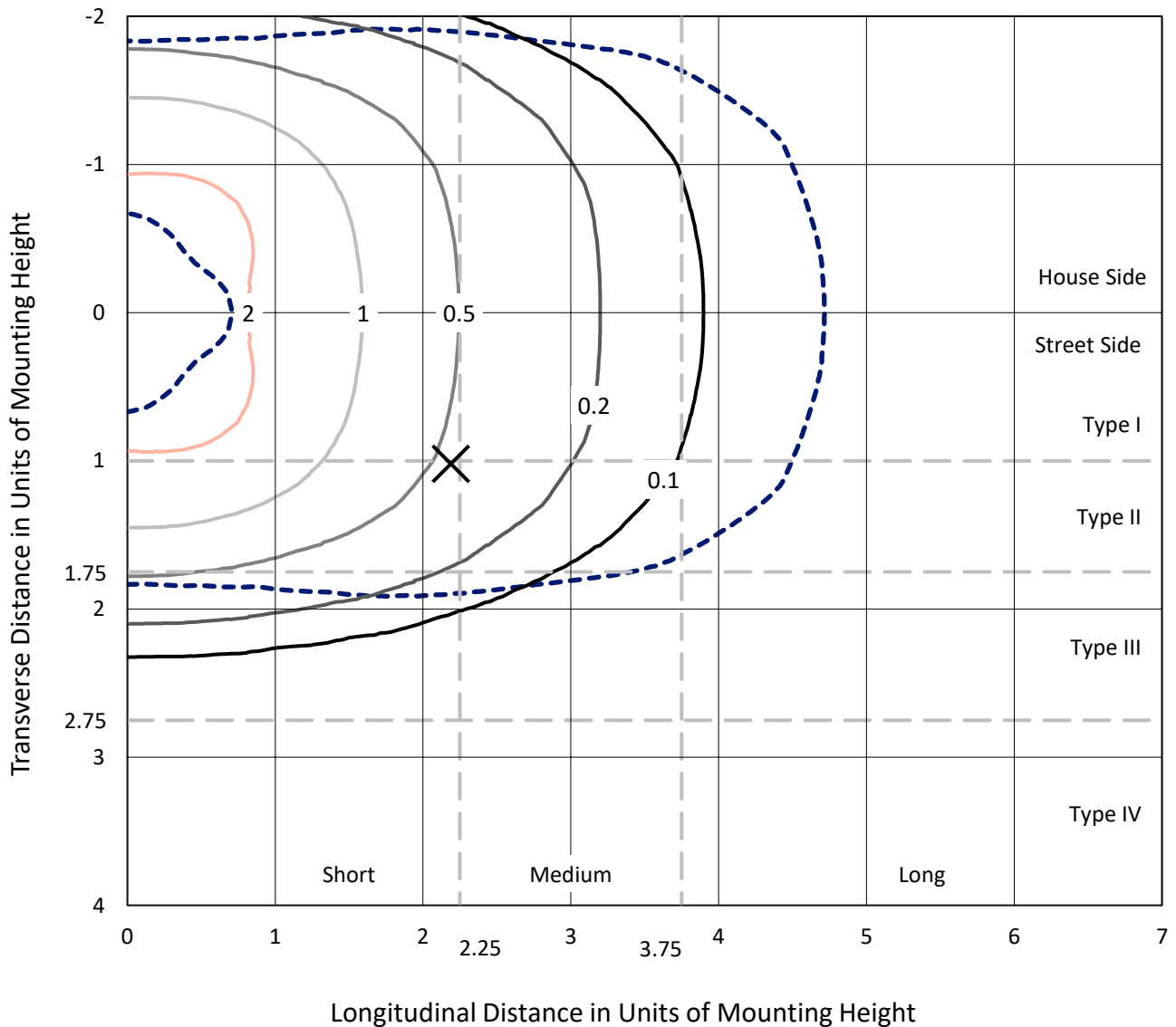
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

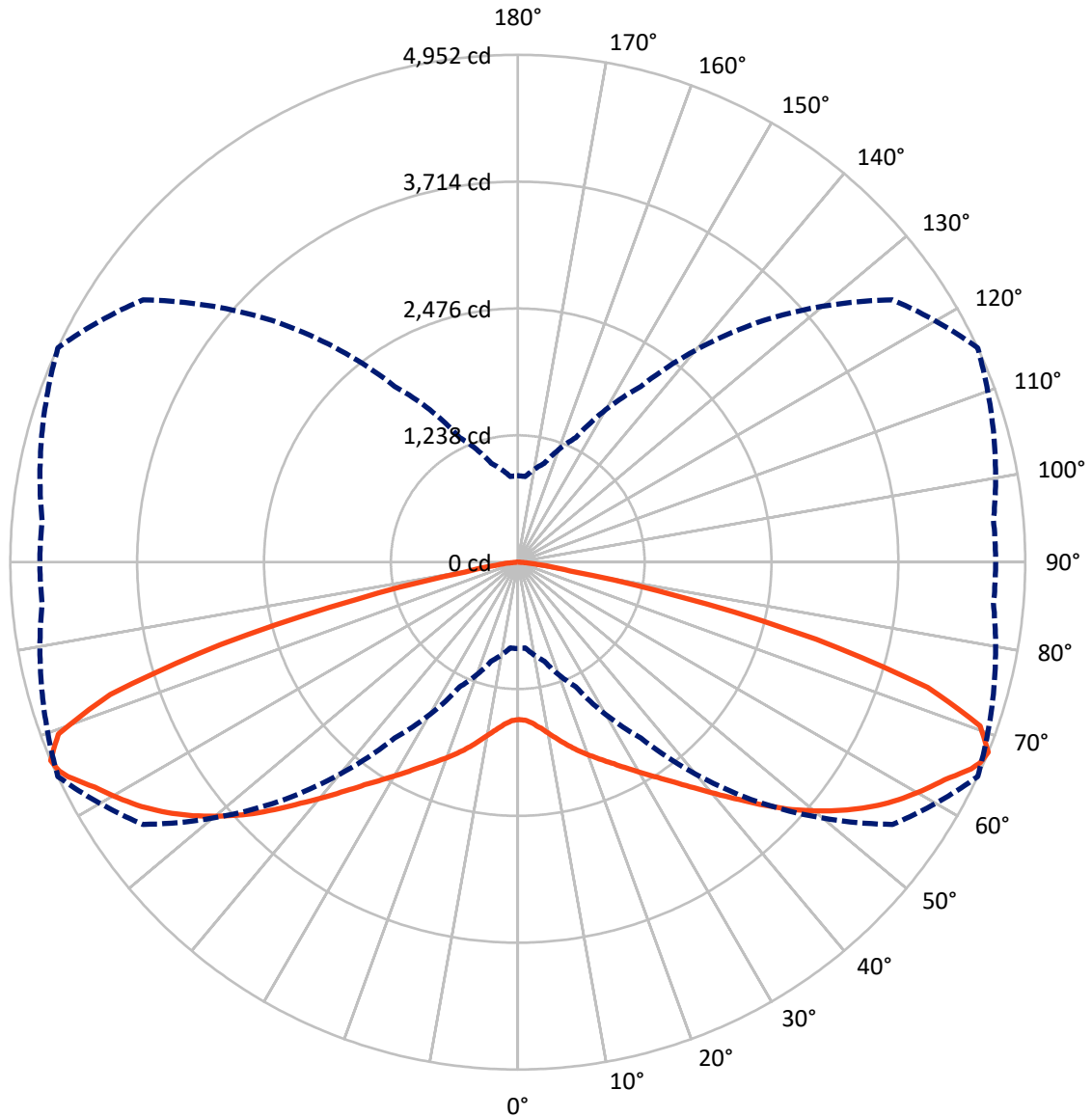
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7328.5   | 0.0    | 7328.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 7328.5   | 0.0    | 7328.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 14657.0  | 0.0    | 14657.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 151.4   | 1.0       |
| 10°-20°   | 506.8   | 3.5       |
| 20°-30°   | 991.3   | 6.8       |
| 30°-40°   | 1686.0  | 11.5      |
| 40°-50°   | 2668.4  | 18.2      |
| 50°-60°   | 3538.3  | 24.1      |
| 60°-70°   | 3337.7  | 22.8      |
| 70°-80°   | 1650.0  | 11.3      |
| 80°-90°   | 127.2   | 0.9       |
| 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°    | 14657.0 | 100.0     |
| 0°-180°   | 14657.0 | 100.0     |

**Coefficient of Utilization**



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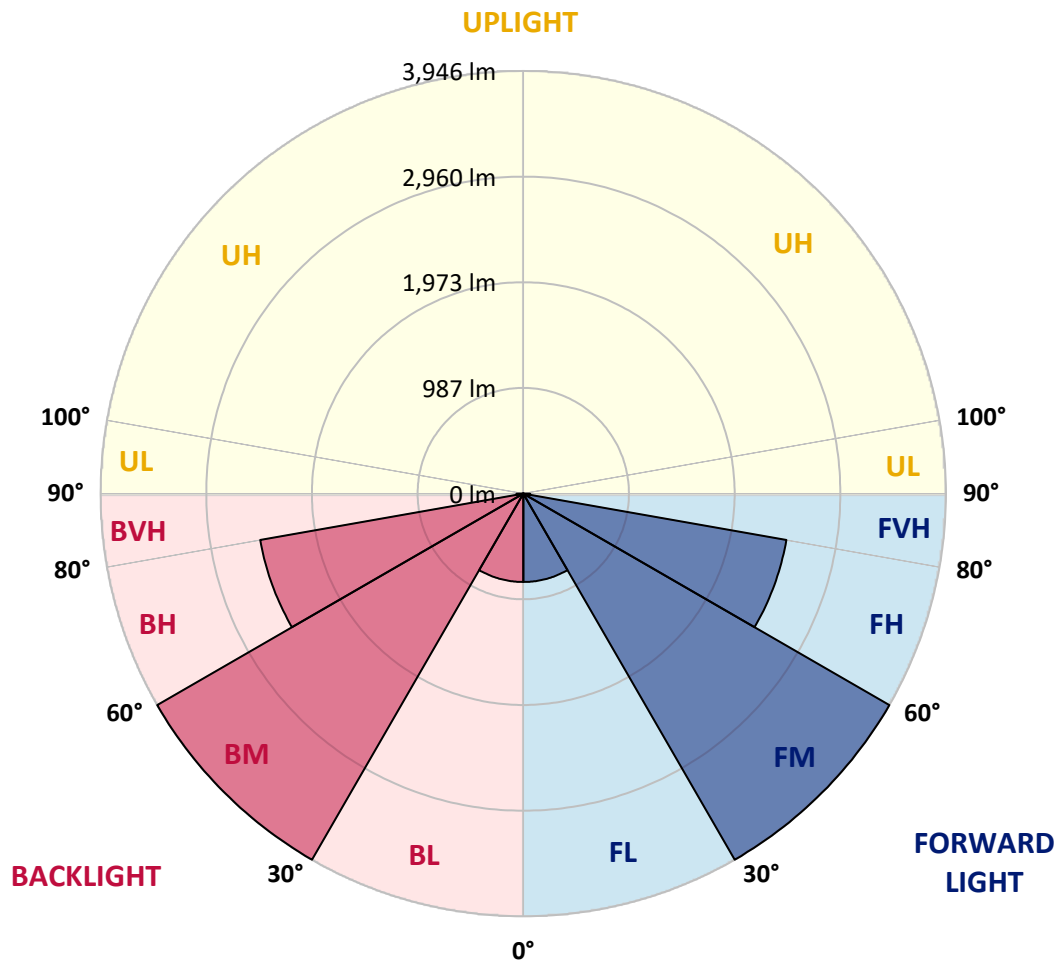
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 824.7  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 3946.4 | 26.9      |                         |      |         |
| FH   | (60°-80°)   | 2493.8 | 17.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 63.6   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 824.7  | 5.6       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 3946.4 | 26.9      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2493.8 | 17.0      | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 63.6   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1535.2 | 1535.2 | 1535.2 | 1535.2 | 1535.2 | 1535.2 | 1535.2 | 1535.2 | 1535.2 | 1535.2 | 1535.2 |
| 2.5°  | 1527.3 | 1528.9 | 1530.5 | 1532.8 | 1536.0 | 1540.7 | 1543.8 | 1546.2 | 1552.5 | 1553.3 | 1552.5 |
| 5°    | 1521.8 | 1523.4 | 1527.3 | 1534.4 | 1544.6 | 1558.7 | 1569.7 | 1583.1 | 1593.3 | 1600.4 | 1598.8 |
| 7.5°  | 1521.1 | 1524.2 | 1530.5 | 1545.4 | 1565.0 | 1589.4 | 1614.5 | 1637.3 | 1656.9 | 1672.6 | 1670.3 |
| 10°   | 1533.6 | 1537.5 | 1547.8 | 1569.7 | 1600.4 | 1635.7 | 1671.0 | 1704.8 | 1733.1 | 1753.5 | 1760.6 |
| 12.5° | 1554.8 | 1558.0 | 1576.8 | 1609.8 | 1653.8 | 1697.7 | 1737.8 | 1779.4 | 1818.7 | 1853.2 | 1853.2 |
| 15°   | 1591.7 | 1597.2 | 1620.8 | 1668.7 | 1722.9 | 1773.9 | 1814.7 | 1858.7 | 1901.1 | 1940.4 | 1952.2 |
| 17.5° | 1642.8 | 1650.6 | 1686.0 | 1747.2 | 1816.3 | 1863.4 | 1901.9 | 1938.0 | 1974.9 | 2012.6 | 2018.1 |
| 20°   | 1712.7 | 1720.5 | 1767.6 | 1841.4 | 1923.1 | 1979.7 | 2005.6 | 2014.2 | 2032.3 | 2068.4 | 2073.1 |
| 22.5° | 1807.7 | 1815.5 | 1868.1 | 1951.4 | 2042.5 | 2103.7 | 2114.7 | 2094.3 | 2089.6 | 2117.9 | 2121.0 |
| 25°   | 1915.3 | 1922.3 | 1982.8 | 2072.3 | 2166.5 | 2233.3 | 2230.2 | 2179.9 | 2151.6 | 2168.9 | 2173.6 |
| 27.5° | 2036.2 | 2046.4 | 2107.6 | 2200.3 | 2302.4 | 2361.3 | 2351.9 | 2278.8 | 2218.4 | 2215.2 | 2216.8 |
| 30°   | 2190.9 | 2201.9 | 2260.0 | 2348.7 | 2449.2 | 2503.4 | 2483.8 | 2385.6 | 2292.2 | 2260.8 | 2260.8 |
| 32.5° | 2354.2 | 2381.7 | 2440.6 | 2533.3 | 2611.8 | 2651.1 | 2621.2 | 2503.4 | 2379.4 | 2335.4 | 2333.0 |
| 35°   | 2567.0 | 2581.9 | 2640.1 | 2730.4 | 2789.3 | 2819.9 | 2762.6 | 2636.1 | 2493.2 | 2441.4 | 2434.3 |
| 37.5° | 2775.1 | 2787.7 | 2855.2 | 2941.6 | 3013.1 | 3011.5 | 2933.7 | 2794.0 | 2634.6 | 2576.5 | 2571.7 |
| 40°   | 2987.9 | 3001.3 | 3078.2 | 3157.5 | 3229.0 | 3222.7 | 3128.5 | 2972.2 | 2802.6 | 2737.4 | 2750.0 |
| 42.5° | 3172.5 | 3187.4 | 3274.6 | 3387.6 | 3452.0 | 3450.5 | 3341.3 | 3165.4 | 2988.7 | 2930.6 | 2941.6 |
| 45°   | 3340.5 | 3353.9 | 3455.2 | 3584.7 | 3679.0 | 3690.7 | 3571.4 | 3385.3 | 3203.9 | 3129.3 | 3132.4 |
| 47.5° | 3459.1 | 3484.2 | 3590.2 | 3738.6 | 3866.6 | 3908.3 | 3791.3 | 3609.1 | 3400.2 | 3322.5 | 3327.2 |
| 50°   | 3549.4 | 3565.1 | 3680.5 | 3849.4 | 4011.1 | 4097.5 | 4003.3 | 3816.4 | 3596.5 | 3514.1 | 3525.1 |
| 52.5° | 3560.4 | 3579.2 | 3704.9 | 3899.6 | 4106.9 | 4238.1 | 4191.7 | 4019.0 | 3796.8 | 3711.9 | 3735.5 |
| 55°   | 3470.9 | 3481.9 | 3631.8 | 3868.2 | 4144.6 | 4342.5 | 4354.3 | 4207.4 | 3987.6 | 3923.2 | 3938.9 |
| 57.5° | 3215.7 | 3243.9 | 3434.0 | 3721.4 | 4092.8 | 4398.3 | 4476.0 | 4378.6 | 4180.7 | 4117.1 | 4142.3 |
| 60°   | 2797.1 | 2825.4 | 3016.2 | 3380.6 | 3897.3 | 4372.4 | 4576.5 | 4530.2 | 4355.9 | 4304.8 | 4318.2 |
| 62.5° | 2191.7 | 2189.3 | 2425.7 | 2872.5 | 3508.6 | 4245.1 | 4651.1 | 4676.2 | 4528.6 | 4464.2 | 4484.6 |
| 65°   | 1420.5 | 1427.6 | 1656.1 | 2137.5 | 2922.0 | 3921.6 | 4667.6 | 4862.4 | 4698.2 | 4600.9 | 4615.8 |
| 66°   | 1142.6 | 1163.8 | 1357.7 | 1801.4 | 2622.8 | 3709.6 | 4618.1 | 4917.3 | 4750.1 | 4632.3 | 4639.3 |
| 67.5° | 843.4  | 839.4  | 998.9  | 1341.2 | 2094.3 | 3306.7 | 4463.4 | 4951.9 | 4809.0 | 4660.5 | 4663.7 |
| 70°   | 481.4  | 480.6  | 537.1  | 736.6  | 1231.3 | 2328.3 | 3762.2 | 4786.2 | 4928.3 | 4762.6 | 4754.0 |
| 72.5° | 351.8  | 349.4  | 357.3  | 406.8  | 600.7  | 1175.5 | 2595.3 | 4183.1 | 4867.1 | 4746.1 | 4721.8 |
| 75°   | 295.3  | 293.7  | 292.1  | 298.4  | 336.9  | 532.4  | 1377.4 | 3009.1 | 4223.2 | 4454.8 | 4429.7 |
| 77.5° | 241.1  | 241.1  | 241.9  | 240.3  | 241.9  | 280.3  | 570.9  | 1612.9 | 2571.7 | 2870.9 | 2940.8 |
| 80°   | 188.5  | 187.7  | 201.0  | 195.5  | 183.0  | 179.8  | 252.9  | 519.1  | 853.6  | 848.9  | 700.5  |
| 82.5° | 139.0  | 129.6  | 153.1  | 149.2  | 135.1  | 114.6  | 147.6  | 221.4  | 285.1  | 185.3  | 137.4  |
| 85°   | 87.9   | 87.2   | 108.4  | 98.9   | 82.5   | 54.2   | 70.7   | 95.0   | 117.8  | 71.5   | 58.1   |
| 87.5° | 15.7   | 14.9   | 34.6   | 25.1   | 25.1   | 15.7   | 19.6   | 25.9   | 38.5   | 26.7   | 19.6   |
| 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)