

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: P452250

Luminaire Tested: **GALN-SA3B-722-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452250  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3B-722-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2200K, 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: 13032 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

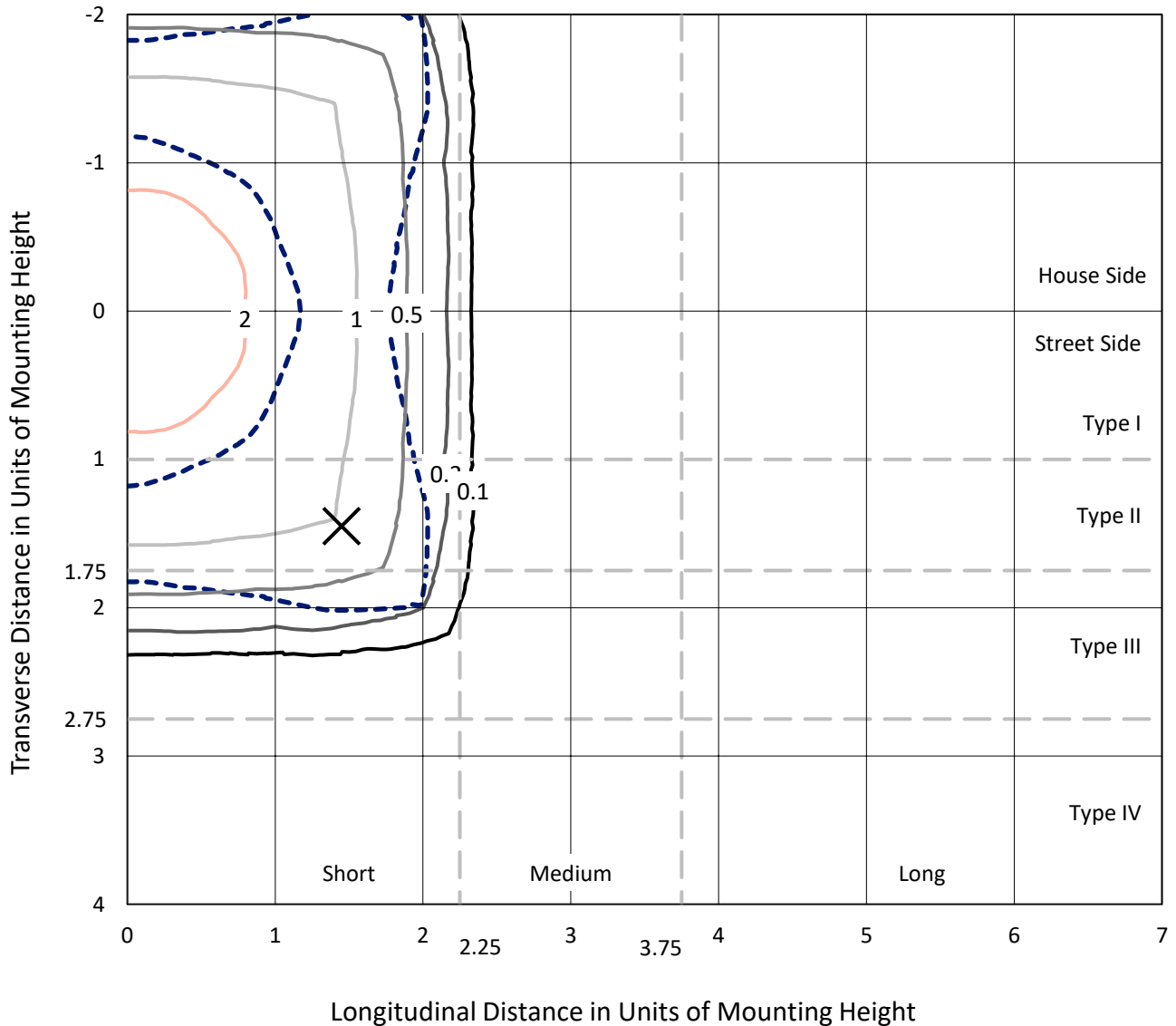
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

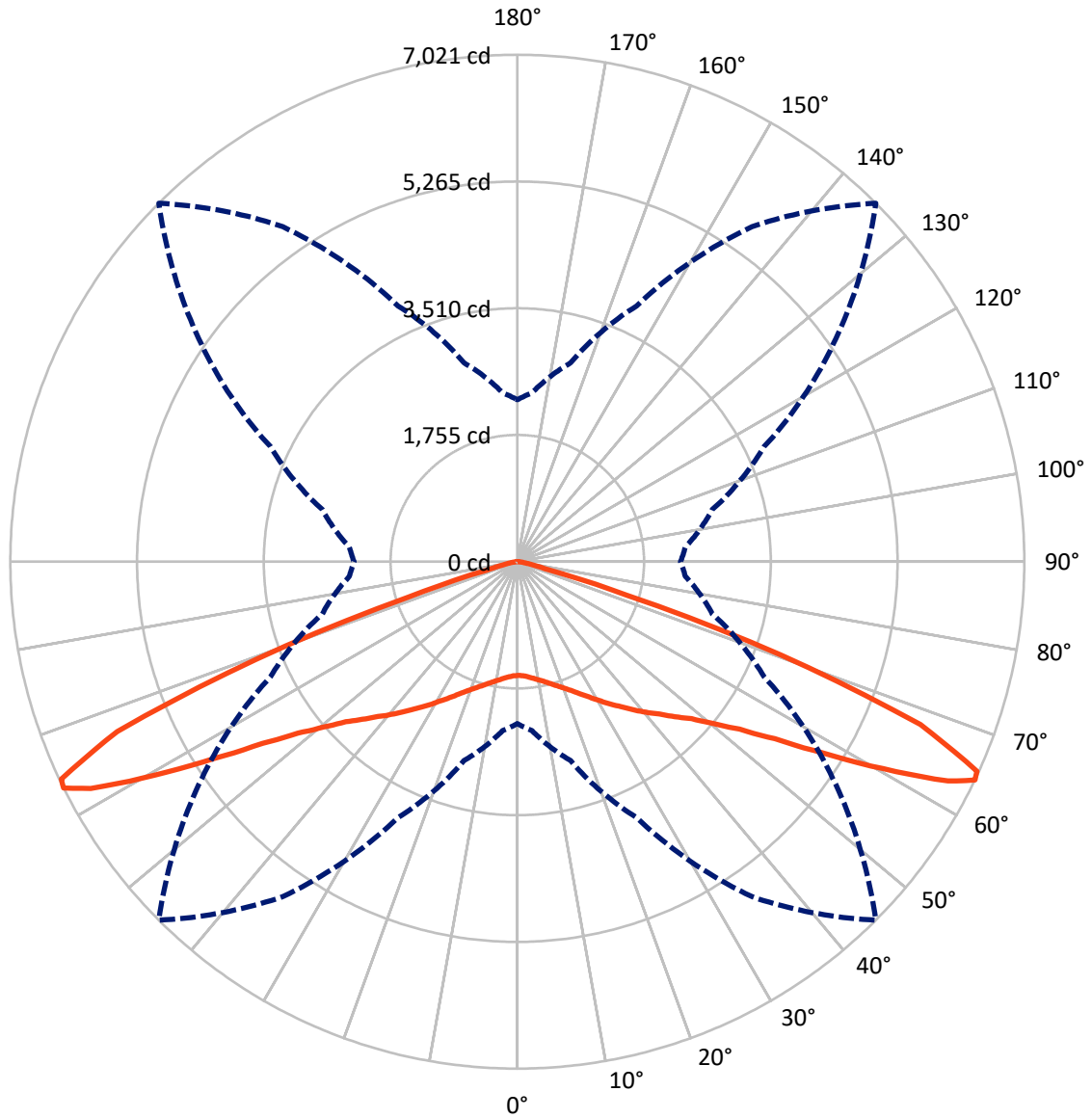
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6516.0   | 0.0    | 6516.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6516.0   | 0.0    | 6516.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 13032.0  | 0.0    | 13032.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 154.7   | 1.2       |
| 10°-20°   | 499.2   | 3.8       |
| 20°-30°   | 943.3   | 7.2       |
| 30°-40°   | 1562.2  | 12.0      |
| 40°-50°   | 2438.8  | 18.7      |
| 50°-60°   | 3770.3  | 28.9      |
| 60°-70°   | 3251.1  | 24.9      |
| 70°-80°   | 368.4   | 2.8       |
| 80°-90°   | 44.1    | 0.3       |
| 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°    | 13032.0 | 100.0     |
| 0°-180°   | 13032.0 | 100.0     |

**Coefficient of Utilization**



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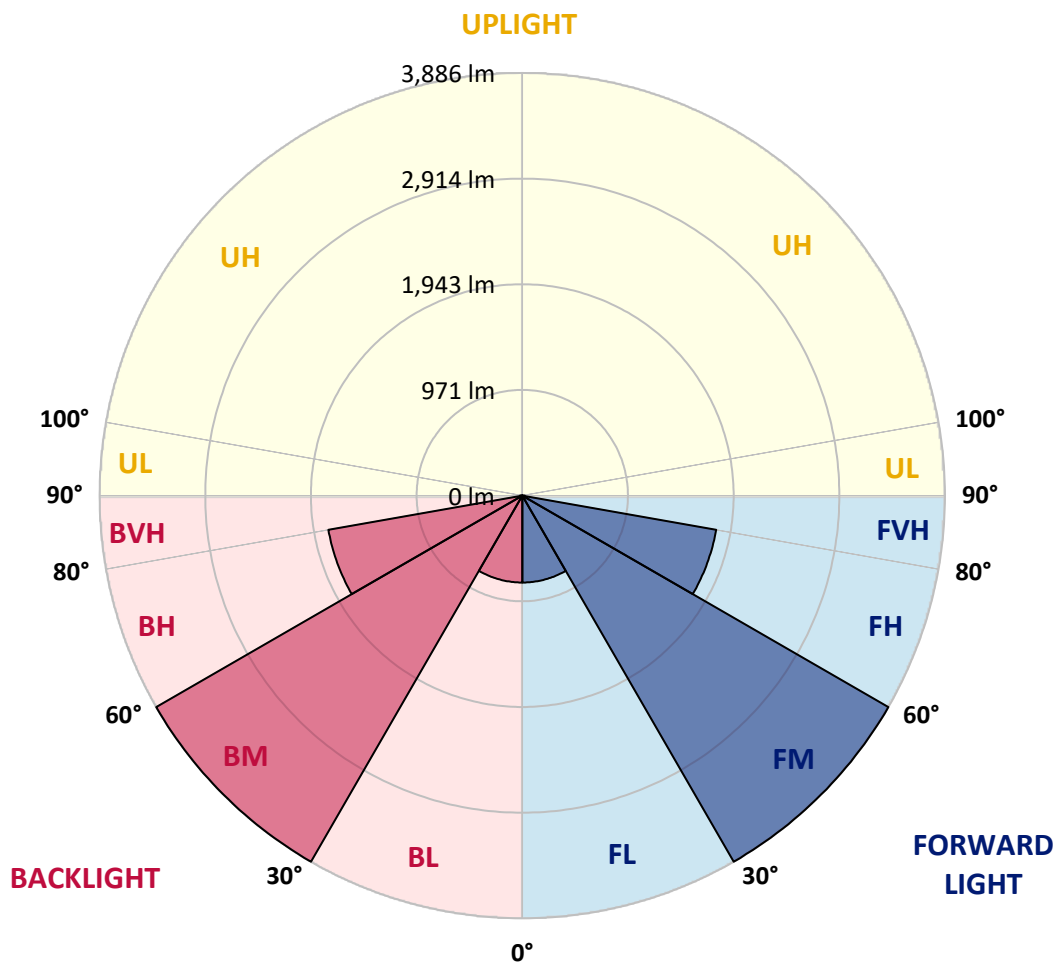
CATALOG NUMBER: GALN-SA3B-722-U-5NQ

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 798.6  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 3885.6 | 29.8      |                         |      |         |
| FH   | (60°-80°)   | 1809.7 | 13.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 22.1   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 798.6  | 6.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 3885.6 | 29.8      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1809.7 | 13.9      | B3/2500                 |      | G2/5000 |
| BVH  | (80°-90°)   | 22.1   | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1575.1 | 1575.1 | 1575.1 | 1575.1 | 1575.1 | 1575.1 | 1575.1 | 1575.1 | 1575.1 | 1575.1 | 1575.1 |
| 2.5°  | 1581.3 | 1584.8 | 1582.0 | 1581.3 | 1580.7 | 1580.7 | 1580.7 | 1581.3 | 1584.1 | 1586.2 | 1584.8 |
| 5°    | 1601.4 | 1604.1 | 1602.7 | 1602.1 | 1601.4 | 1602.1 | 1600.7 | 1600.0 | 1602.1 | 1602.1 | 1601.4 |
| 7.5°  | 1626.2 | 1629.7 | 1628.3 | 1629.7 | 1630.4 | 1631.0 | 1627.6 | 1624.8 | 1624.1 | 1626.2 | 1624.8 |
| 10°   | 1660.0 | 1662.8 | 1663.5 | 1664.2 | 1665.6 | 1664.9 | 1660.7 | 1655.9 | 1655.2 | 1654.5 | 1653.8 |
| 12.5° | 1698.0 | 1700.1 | 1700.8 | 1703.5 | 1705.6 | 1706.3 | 1701.5 | 1697.3 | 1690.4 | 1691.8 | 1689.0 |
| 15°   | 1740.8 | 1744.9 | 1744.2 | 1748.4 | 1753.9 | 1755.3 | 1750.5 | 1743.6 | 1737.3 | 1733.9 | 1731.8 |
| 17.5° | 1793.3 | 1796.0 | 1794.6 | 1798.8 | 1805.7 | 1809.1 | 1805.0 | 1796.0 | 1789.8 | 1782.2 | 1778.1 |
| 20°   | 1855.4 | 1860.2 | 1861.6 | 1861.6 | 1867.8 | 1871.3 | 1865.0 | 1862.3 | 1852.6 | 1847.1 | 1843.6 |
| 22.5° | 1925.8 | 1927.9 | 1932.0 | 1936.1 | 1942.3 | 1941.0 | 1938.9 | 1934.8 | 1925.8 | 1920.9 | 1915.4 |
| 25°   | 2005.2 | 2007.2 | 2017.6 | 2026.6 | 2028.6 | 2027.2 | 2024.5 | 2022.4 | 2014.1 | 2003.1 | 1998.9 |
| 27.5° | 2097.7 | 2101.8 | 2115.6 | 2123.9 | 2123.9 | 2124.6 | 2119.0 | 2126.0 | 2108.0 | 2094.9 | 2093.5 |
| 30°   | 2213.6 | 2216.4 | 2228.1 | 2236.4 | 2232.2 | 2228.8 | 2227.4 | 2234.3 | 2215.0 | 2191.5 | 2186.0 |
| 32.5° | 2328.2 | 2337.9 | 2348.2 | 2366.2 | 2351.7 | 2345.4 | 2344.1 | 2348.9 | 2326.8 | 2300.6 | 2293.0 |
| 35°   | 2451.1 | 2458.0 | 2477.3 | 2492.5 | 2479.4 | 2464.9 | 2471.1 | 2486.3 | 2460.0 | 2424.8 | 2423.4 |
| 37.5° | 2587.0 | 2593.2 | 2618.1 | 2634.0 | 2624.3 | 2599.5 | 2609.8 | 2627.8 | 2601.5 | 2558.0 | 2549.1 |
| 40°   | 2728.5 | 2741.6 | 2772.7 | 2789.3 | 2773.4 | 2740.3 | 2759.6 | 2778.9 | 2755.5 | 2705.1 | 2685.0 |
| 42.5° | 2887.3 | 2908.0 | 2952.9 | 2961.1 | 2930.8 | 2885.9 | 2919.7 | 2950.8 | 2934.2 | 2876.2 | 2868.7 |
| 45°   | 3073.0 | 3085.4 | 3140.6 | 3158.6 | 3116.5 | 3060.5 | 3102.6 | 3159.2 | 3146.8 | 3079.9 | 3065.4 |
| 47.5° | 3280.7 | 3292.5 | 3349.8 | 3376.7 | 3323.5 | 3248.3 | 3324.2 | 3398.1 | 3390.5 | 3318.7 | 3311.8 |
| 50°   | 3526.5 | 3529.2 | 3608.6 | 3639.0 | 3585.8 | 3520.9 | 3588.6 | 3680.4 | 3650.0 | 3558.2 | 3556.8 |
| 52.5° | 3795.7 | 3799.1 | 3899.2 | 3957.9 | 3928.2 | 3855.0 | 3935.1 | 3991.0 | 3913.7 | 3793.6 | 3784.6 |
| 55°   | 4029.0 | 4046.2 | 4182.9 | 4338.9 | 4379.6 | 4326.4 | 4350.6 | 4324.4 | 4133.9 | 3965.5 | 3939.2 |
| 57.5° | 4124.2 | 4158.0 | 4365.8 | 4657.1 | 4922.1 | 5000.8 | 4814.5 | 4564.6 | 4221.5 | 3983.4 | 3957.9 |
| 60°   | 3891.6 | 3928.2 | 4250.5 | 4803.4 | 5479.8 | 5821.5 | 5297.6 | 4605.3 | 4022.1 | 3687.3 | 3647.2 |
| 62.5° | 3116.5 | 3126.8 | 3601.0 | 4459.0 | 5805.0 | 6689.8 | 5501.2 | 4258.1 | 3441.6 | 2986.7 | 2970.8 |
| 64°   | 2242.6 | 2348.9 | 2851.4 | 3909.5 | 5662.8 | 7020.5 | 5383.9 | 3771.5 | 2795.5 | 2335.1 | 2260.5 |
| 65°   | 1677.3 | 1706.3 | 2298.5 | 3338.7 | 5412.2 | 6995.6 | 5156.1 | 3306.3 | 2315.1 | 1787.0 | 1704.2 |
| 67.5° | 633.6  | 637.1  | 848.3  | 1664.2 | 3852.9 | 6018.9 | 3935.1 | 1798.8 | 975.3  | 705.4  | 679.9  |
| 70°   | 263.0  | 267.8  | 311.3  | 559.8  | 1655.9 | 3864.7 | 1897.5 | 648.8  | 356.9  | 289.2  | 285.1  |
| 72.5° | 192.6  | 195.3  | 208.5  | 248.5  | 509.4  | 1586.9 | 624.0  | 275.4  | 209.1  | 187.1  | 185.0  |
| 75°   | 151.2  | 152.5  | 162.2  | 182.9  | 237.4  | 439.7  | 259.5  | 189.1  | 159.4  | 143.6  | 142.2  |
| 77.5° | 115.3  | 118.7  | 125.6  | 139.4  | 159.4  | 208.5  | 171.9  | 141.5  | 122.9  | 109.7  | 107.7  |
| 80°   | 79.4   | 83.5   | 96.6   | 102.2  | 107.0  | 135.3  | 117.3  | 107.0  | 95.9   | 80.1   | 75.2   |
| 82.5° | 49.0   | 51.8   | 64.9   | 69.7   | 67.6   | 75.9   | 75.2   | 76.6   | 68.3   | 49.7   | 46.2   |
| 85°   | 25.5   | 26.9   | 35.2   | 36.6   | 33.8   | 31.1   | 38.7   | 44.9   | 42.1   | 28.3   | 27.6   |
| 87.5° | 5.5    | 6.2    | 7.6    | 6.9    | 7.6    | 7.6    | 9.7    | 14.5   | 15.2   | 9.7    | 9.0    |
| 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)