

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: P953420

Luminaire Tested: **GALN-SB7A-727-U-5NQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P953420  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7A-727-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 31007 lumens  
Efficiency: N/A  
Efficacy: 155.7 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): 199.1  
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

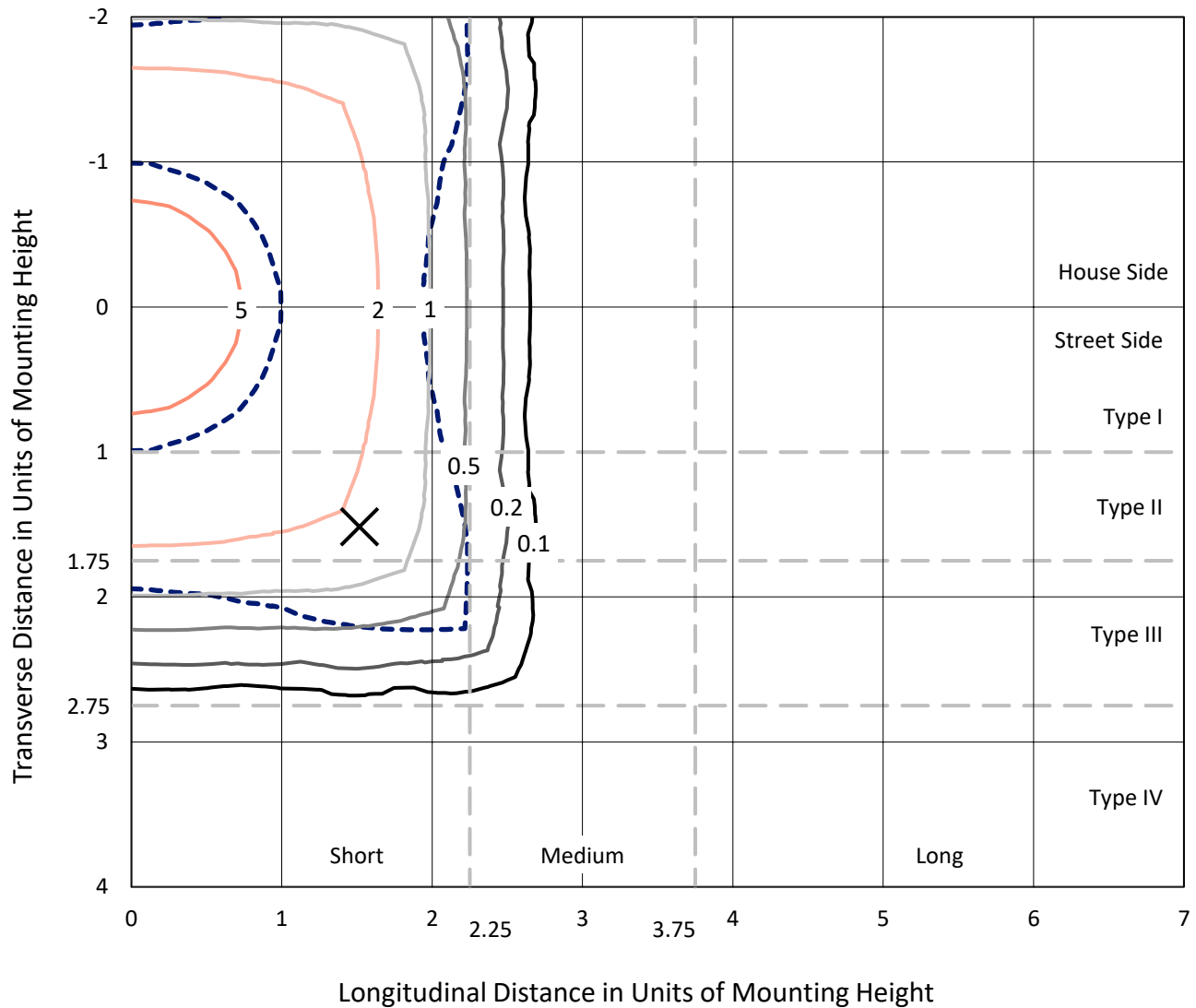


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

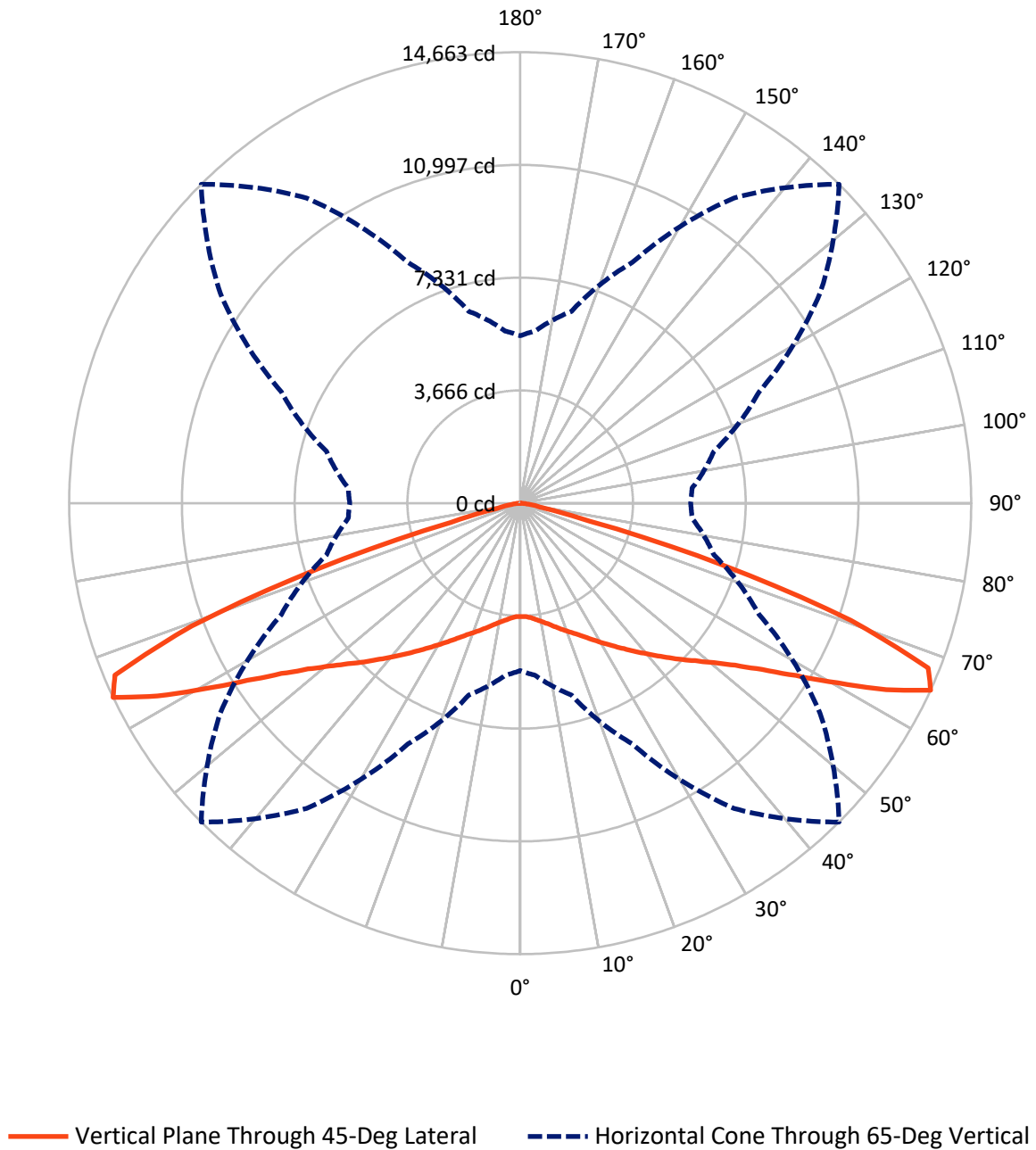


Based on 25 foot mounting height. Maximum calculated value = 6 fc  
Type V - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 15503.5  | 0.0    | 15503.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 15503.5  | 0.0    | 15503.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 31007.0  | 0.0    | 31007.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 364.2   | 1.2       |
| 10°-20°   | 1188.4  | 3.8       |
| 20°-30°   | 2243.7  | 7.2       |
| 30°-40°   | 3674.0  | 11.8      |
| 40°-50°   | 5696.7  | 18.4      |
| 50°-60°   | 8415.2  | 27.1      |
| 60°-70°   | 8010.4  | 25.8      |
| 70°-80°   | 1292.6  | 4.2       |
| 80°-90°   | 121.8   | 0.4       |
| 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°    | 31007.0 | 100.0     |
| 0°-180°   | 31007.0 | 100.0     |

**Coefficient of Utilization**



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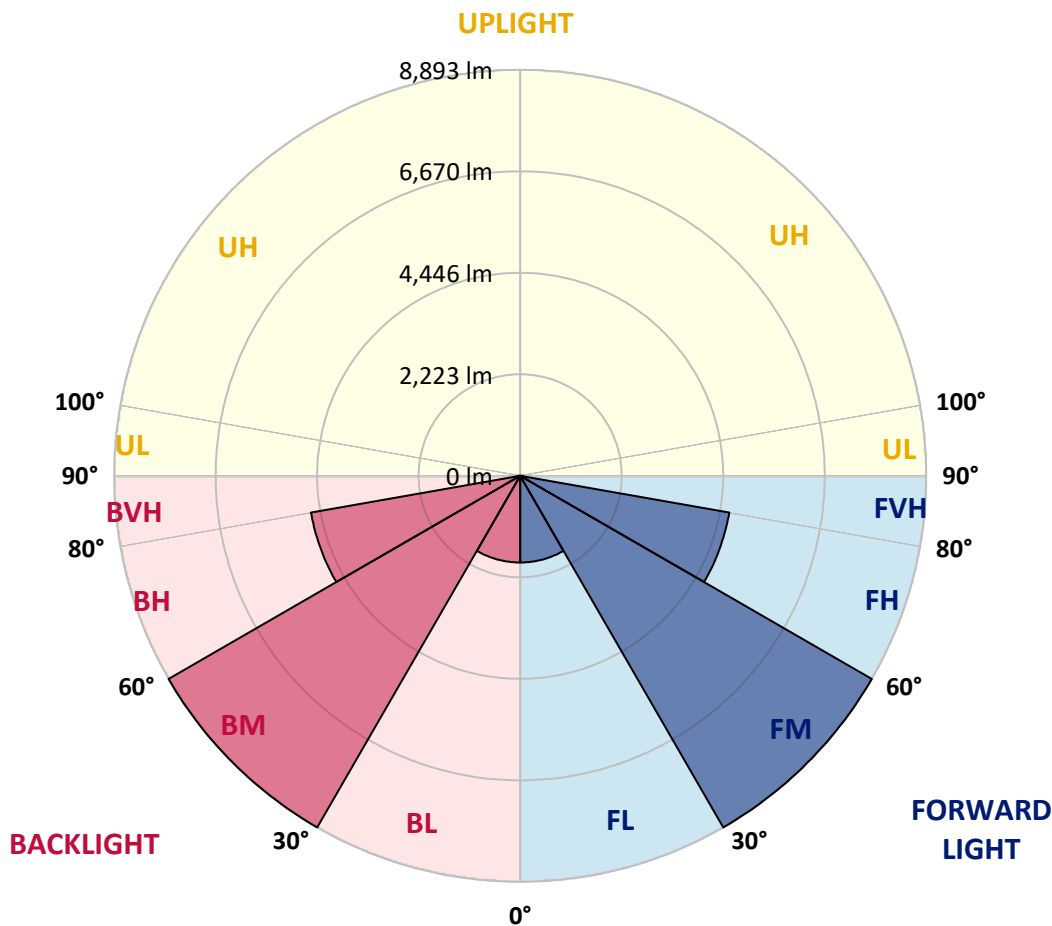
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1898.1 | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 8892.9 | 28.7      |                         |      |         |
| FH   | (60°-80°)   | 4651.5 | 15.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 60.9   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1898.1 | 6.1       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 8892.9 | 28.7      | B5                      |      |         |
| BH   | (60°-80°)   | 4651.5 | 15.0      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 60.9   | 0.2       |                         |      | G1/100  |
| 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°    | 3690.1 | 3690.1 | 3690.1 | 3690.1  | 3690.1  | 3690.1  | 3690.1  | 3690.1  | 3690.1 | 3690.1 | 3690.1 |
| 2.5°  | 3715.0 | 3702.6 | 3711.9 | 3704.1  | 3697.9  | 3691.7  | 3694.8  | 3705.7  | 3710.4 | 3711.9 | 3711.9 |
| 5°    | 3764.8 | 3753.9 | 3758.6 | 3758.6  | 3747.7  | 3744.6  | 3746.1  | 3753.9  | 3763.3 | 3763.3 | 3763.3 |
| 7.5°  | 3845.7 | 3834.8 | 3845.7 | 3839.5  | 3830.2  | 3827.0  | 3825.5  | 3831.7  | 3845.7 | 3845.7 | 3841.0 |
| 10°   | 3943.7 | 3931.3 | 3937.5 | 3934.4  | 3923.5  | 3918.8  | 3917.3  | 3926.6  | 3939.1 | 3937.5 | 3934.4 |
| 12.5° | 4051.1 | 4037.1 | 4044.8 | 4035.5  | 4032.4  | 4027.7  | 4027.7  | 4026.2  | 4034.0 | 4027.7 | 4030.8 |
| 15°   | 4170.9 | 4161.5 | 4164.6 | 4158.4  | 4163.1  | 4160.0  | 4147.5  | 4141.3  | 4144.4 | 4135.1 | 4136.6 |
| 17.5° | 4312.4 | 4290.6 | 4301.5 | 4298.4  | 4298.4  | 4304.6  | 4284.4  | 4276.6  | 4282.9 | 4273.5 | 4281.3 |
| 20°   | 4475.8 | 4454.0 | 4458.7 | 4452.4  | 4444.7  | 4450.9  | 4426.0  | 4432.2  | 4436.9 | 4430.7 | 4444.7 |
| 22.5° | 4654.7 | 4626.7 | 4625.1 | 4628.2  | 4611.1  | 4612.7  | 4595.6  | 4611.1  | 4620.5 | 4603.3 | 4620.5 |
| 25°   | 4838.3 | 4808.7 | 4828.9 | 4821.1  | 4799.4  | 4804.0  | 4791.6  | 4807.1  | 4814.9 | 4793.1 | 4818.0 |
| 27.5° | 5032.7 | 5012.5 | 5031.2 | 5035.8  | 5009.4  | 5028.1  | 5009.4  | 5023.4  | 5031.2 | 4998.5 | 5023.4 |
| 30°   | 5259.9 | 5239.6 | 5256.7 | 5269.2  | 5238.1  | 5267.6  | 5252.1  | 5261.4  | 5263.0 | 5224.1 | 5247.4 |
| 32.5° | 5507.2 | 5476.1 | 5519.7 | 5525.9  | 5491.7  | 5527.4  | 5507.2  | 5519.7  | 5527.4 | 5474.5 | 5510.3 |
| 35°   | 5809.0 | 5770.1 | 5819.9 | 5812.1  | 5782.6  | 5812.1  | 5793.5  | 5812.1  | 5830.8 | 5767.0 | 5805.9 |
| 37.5° | 6134.2 | 6093.7 | 6146.6 | 6132.6  | 6104.6  | 6124.8  | 6113.9  | 6126.4  | 6155.9 | 6087.5 | 6129.5 |
| 40°   | 6492.0 | 6442.2 | 6513.8 | 6488.9  | 6462.4  | 6459.3  | 6465.5  | 6473.3  | 6512.2 | 6436.0 | 6460.9 |
| 42.5° | 6874.7 | 6821.8 | 6929.1 | 6890.2  | 6852.9  | 6828.0  | 6848.2  | 6863.8  | 6901.1 | 6815.6 | 6860.7 |
| 45°   | 7311.8 | 7251.2 | 7391.2 | 7344.5  | 7285.4  | 7234.0  | 7266.7  | 7290.1  | 7344.5 | 7241.8 | 7294.7 |
| 47.5° | 7794.1 | 7725.7 | 7875.0 | 7861.0  | 7764.5  | 7652.5  | 7727.2  | 7794.1  | 7834.6 | 7710.1 | 7752.1 |
| 50°   | 8265.5 | 8212.6 | 8408.6 | 8425.7  | 8307.5  | 8150.4  | 8254.6  | 8355.7  | 8366.6 | 8203.3 | 8223.5 |
| 52.5° | 8707.3 | 8654.4 | 8939.1 | 9046.5  | 8940.7  | 8754.0  | 8864.4  | 8967.1  | 8884.7 | 8673.1 | 8679.3 |
| 55°   | 9060.5 | 9016.9 | 9379.4 | 9656.3  | 9692.1  | 9538.1  | 9603.4  | 9600.3  | 9329.6 | 9004.4 | 9015.3 |
| 57.5° | 9146.0 | 9139.8 | 9597.2 | 10183.7 | 10557.0 | 10575.7 | 10446.6 | 10116.8 | 9533.4 | 9096.2 | 9068.2 |
| 60°   | 8757.1 | 8796.0 | 9424.5 | 10459.0 | 11454.7 | 11868.5 | 11310.0 | 10368.8 | 9301.6 | 8694.9 | 8623.3 |
| 62.5° | 7593.4 | 7696.1 | 8453.7 | 10123.0 | 12179.7 | 13355.8 | 12002.3 | 9986.1  | 8349.5 | 7557.6 | 7511.0 |
| 65°   | 5441.9 | 5620.8 | 6457.8 | 8638.9  | 12114.3 | 14662.6 | 11902.7 | 8568.8  | 6520.0 | 5606.8 | 5539.9 |
| 67.5° | 2468.9 | 2650.9 | 3361.9 | 5914.8  | 10530.6 | 14307.9 | 10505.7 | 5977.0  | 3529.9 | 2660.3 | 2621.4 |
| 70°   | 894.5  | 925.6  | 1154.3 | 2367.8  | 6730.0  | 11400.2 | 7017.8  | 2384.9  | 1227.5 | 986.3  | 973.9  |
| 72.5° | 541.4  | 546.1  | 594.3  | 847.9   | 2338.2  | 6921.4  | 2437.8  | 875.9   | 606.7  | 538.3  | 547.6  |
| 75°   | 343.8  | 340.7  | 423.2  | 518.1   | 829.2   | 2335.1  | 869.6   | 518.1   | 421.6  | 384.3  | 387.4  |
| 77.5° | 247.4  | 255.1  | 303.4  | 387.4   | 522.7   | 791.9   | 513.4   | 370.3   | 303.4  | 248.9  | 253.6  |
| 80°   | 185.1  | 189.8  | 220.9  | 301.8   | 367.1   | 493.2   | 326.7   | 273.8   | 228.7  | 155.6  | 160.2  |
| 82.5° | 133.8  | 133.8  | 144.7  | 219.4   | 224.0   | 266.0   | 177.4   | 192.9   | 150.9  | 110.5  | 110.5  |
| 85°   | 79.3   | 77.8   | 90.2   | 130.7   | 116.7   | 98.0    | 80.9    | 118.2   | 94.9   | 68.5   | 66.9   |
| 87.5° | 28.0   | 29.6   | 28.0   | 37.3    | 31.1    | 26.4    | 24.9    | 32.7    | 26.4   | 23.3   | 21.8   |
| 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)