

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: P454976

Luminaire Tested: **GALN-SA6A-827-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454976  
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-SA6A-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20805 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

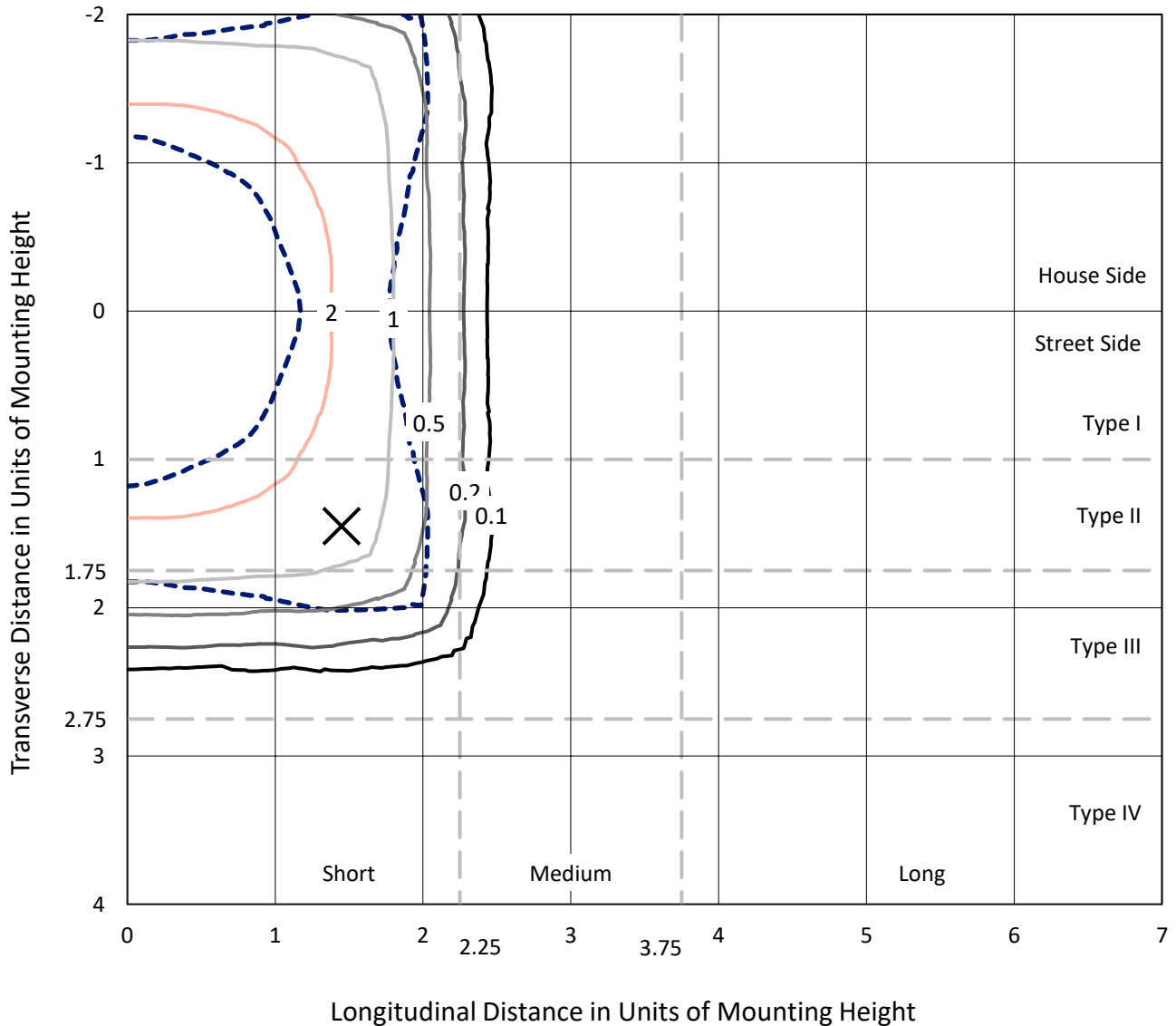
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

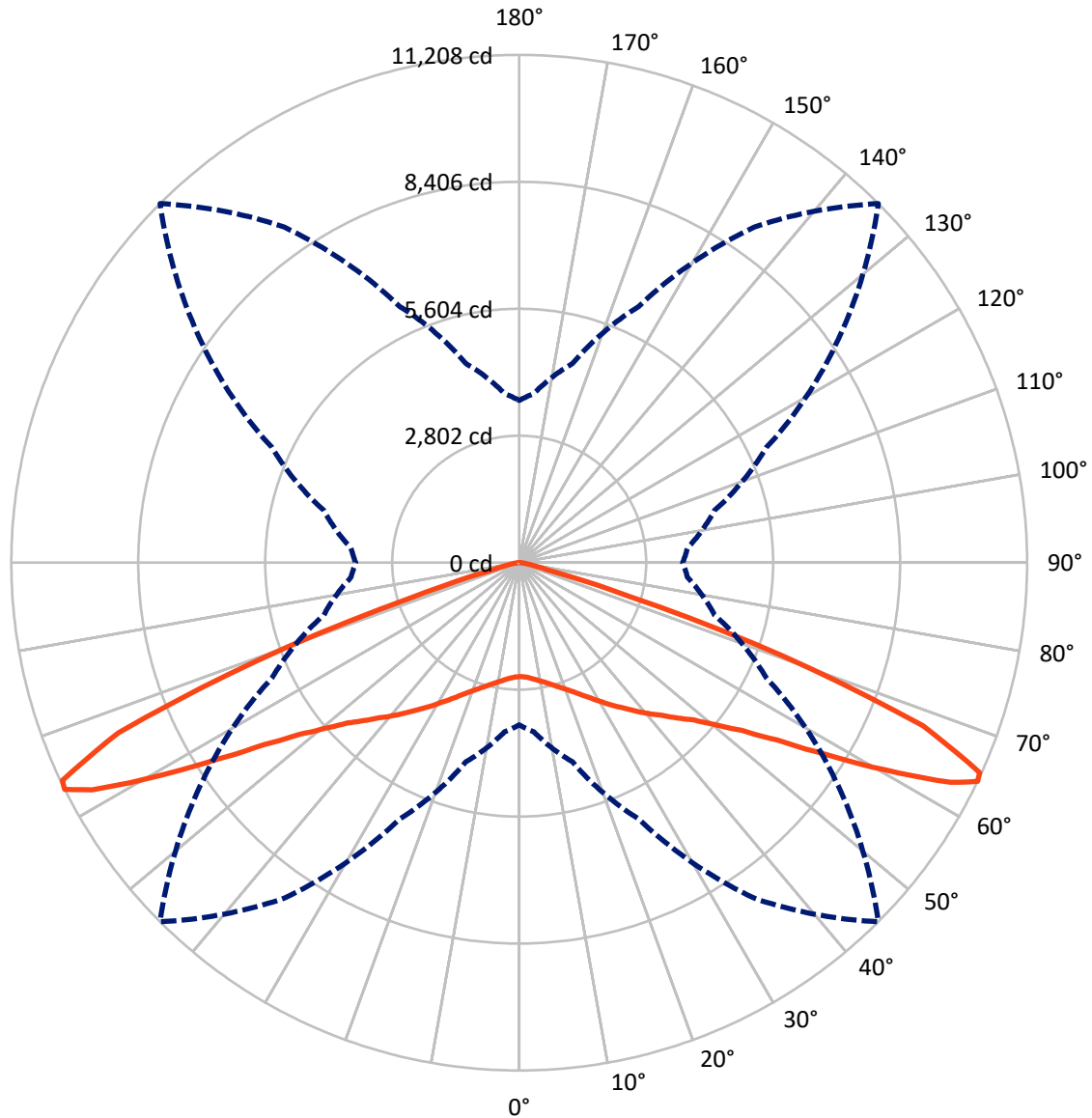
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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    | 10402.5  | 0.0    | 10402.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 10402.5  | 0.0    | 10402.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 20805.0  | 0.0    | 20805.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 247.0   | 1.2       |
| 10°-20°   | 796.9   | 3.8       |
| 20°-30°   | 1505.9  | 7.2       |
| 30°-40°   | 2493.9  | 12.0      |
| 40°-50°   | 3893.4  | 18.7      |
| 50°-60°   | 6019.1  | 28.9      |
| 60°-70°   | 5190.2  | 24.9      |
| 70°-80°   | 588.2   | 2.8       |
| 80°-90°   | 70.5    | 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°    | 20805.0 | 100.0     |
| 0°-180°   | 20805.0 | 100.0     |

**Coefficient of Utilization**



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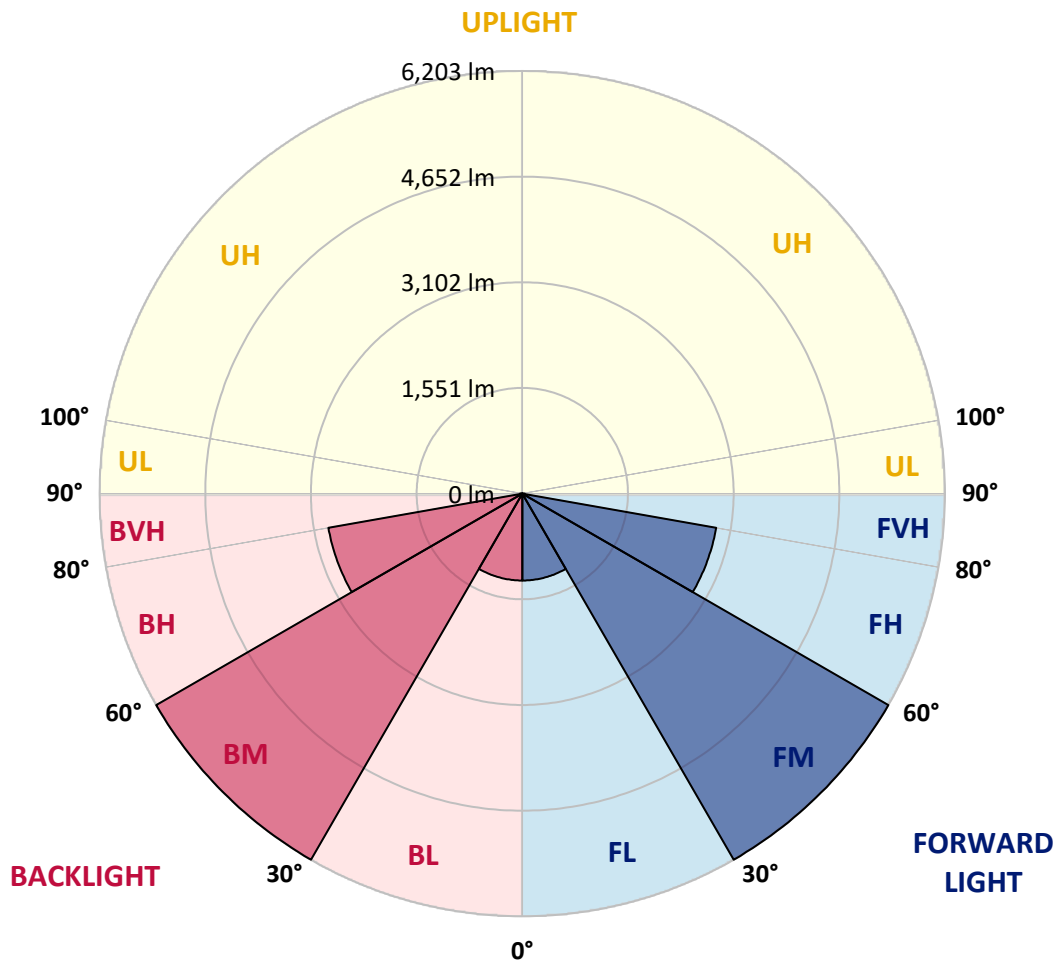
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1274.9 | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 6203.2 | 29.8      |                         |      |         |
| FH   | (60°-80°)   | 2889.2 | 13.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 35.2   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1274.9 | 6.1       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 6203.2 | 29.8      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 2889.2 | 13.9      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 35.2   | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| 0°    | 2514.6 | 2514.6 | 2514.6 | 2514.6 | 2514.6 | 2514.6  | 2514.6 | 2514.6 | 2514.6 | 2514.6 | 2514.6 |
| 2.5°  | 2524.6 | 2530.1 | 2525.7 | 2524.6 | 2523.4 | 2523.4  | 2523.4 | 2524.6 | 2529.0 | 2532.3 | 2530.1 |
| 5°    | 2556.5 | 2560.9 | 2558.7 | 2557.6 | 2556.5 | 2557.6  | 2555.4 | 2554.3 | 2557.6 | 2557.6 | 2556.5 |
| 7.5°  | 2596.2 | 2601.7 | 2599.5 | 2601.7 | 2602.8 | 2603.9  | 2598.4 | 2594.0 | 2592.9 | 2596.2 | 2594.0 |
| 10°   | 2650.2 | 2654.6 | 2655.7 | 2656.8 | 2659.0 | 2657.9  | 2651.3 | 2643.6 | 2642.5 | 2641.4 | 2640.3 |
| 12.5° | 2710.8 | 2714.1 | 2715.2 | 2719.6 | 2722.9 | 2724.0  | 2716.3 | 2709.7 | 2698.7 | 2700.9 | 2696.5 |
| 15°   | 2779.1 | 2785.7 | 2784.6 | 2791.2 | 2800.0 | 2802.2  | 2794.5 | 2783.5 | 2773.6 | 2768.1 | 2764.8 |
| 17.5° | 2862.8 | 2867.3 | 2865.1 | 2871.7 | 2882.7 | 2888.2  | 2881.6 | 2867.3 | 2857.3 | 2845.2 | 2838.6 |
| 20°   | 2962.0 | 2969.7 | 2971.9 | 2971.9 | 2981.9 | 2987.4  | 2977.5 | 2973.0 | 2957.6 | 2948.8 | 2943.3 |
| 22.5° | 3074.4 | 3077.7 | 3084.3 | 3091.0 | 3100.9 | 3098.7  | 3095.4 | 3088.7 | 3074.4 | 3066.7 | 3057.9 |
| 25°   | 3201.1 | 3204.5 | 3221.0 | 3235.3 | 3238.6 | 3236.4  | 3232.0 | 3228.7 | 3215.5 | 3197.8 | 3191.2 |
| 27.5° | 3348.8 | 3355.4 | 3377.5 | 3390.7 | 3390.7 | 3391.8  | 3383.0 | 3394.0 | 3365.3 | 3344.4 | 3342.2 |
| 30°   | 3533.9 | 3538.3 | 3557.1 | 3570.3 | 3563.7 | 3558.2  | 3556.0 | 3567.0 | 3536.1 | 3498.7 | 3489.9 |
| 32.5° | 3716.9 | 3732.3 | 3748.8 | 3777.5 | 3754.3 | 3744.4  | 3742.2 | 3749.9 | 3714.7 | 3672.8 | 3660.7 |
| 35°   | 3913.0 | 3924.0 | 3954.9 | 3979.1 | 3958.2 | 3935.0  | 3945.0 | 3969.2 | 3927.3 | 3871.1 | 3868.9 |
| 37.5° | 4130.1 | 4140.0 | 4179.7 | 4205.0 | 4189.6 | 4149.9  | 4166.4 | 4195.1 | 4153.2 | 4083.8 | 4069.5 |
| 40°   | 4356.0 | 4376.9 | 4426.5 | 4453.0 | 4427.6 | 4374.7  | 4405.6 | 4436.4 | 4399.0 | 4318.5 | 4286.6 |
| 42.5° | 4609.4 | 4642.5 | 4714.1 | 4727.3 | 4678.9 | 4607.2  | 4661.2 | 4710.8 | 4684.4 | 4591.8 | 4579.7 |
| 45°   | 4905.9 | 4925.7 | 5013.8 | 5042.5 | 4975.3 | 4886.0  | 4953.2 | 5043.6 | 5023.8 | 4916.9 | 4893.7 |
| 47.5° | 5237.5 | 5256.3 | 5347.7 | 5390.7 | 5305.9 | 5185.7  | 5307.0 | 5424.9 | 5412.7 | 5298.1 | 5287.1 |
| 50°   | 5629.8 | 5634.2 | 5761.0 | 5809.4 | 5724.6 | 5621.0  | 5729.0 | 5875.6 | 5827.1 | 5680.5 | 5678.3 |
| 52.5° | 6059.6 | 6065.1 | 6224.9 | 6318.5 | 6271.2 | 6154.4  | 6282.2 | 6371.4 | 6248.0 | 6056.3 | 6042.0 |
| 55°   | 6432.0 | 6459.6 | 6677.8 | 6926.8 | 6991.8 | 6907.0  | 6945.5 | 6903.7 | 6599.5 | 6330.7 | 6288.8 |
| 57.5° | 6584.1 | 6638.1 | 6969.8 | 7434.8 | 7858.0 | 7983.6  | 7686.1 | 7287.1 | 6739.5 | 6359.3 | 6318.5 |
| 60°   | 6212.8 | 6271.2 | 6785.8 | 7668.4 | 8748.3 | 9293.8  | 8457.4 | 7352.2 | 6421.0 | 5886.6 | 5822.7 |
| 62.5° | 4975.3 | 4991.8 | 5748.8 | 7118.6 | 9267.3 | 10680.0 | 8782.5 | 6797.9 | 5494.3 | 4768.1 | 4742.8 |
| 64°   | 3580.2 | 3749.9 | 4552.1 | 6241.4 | 9040.3 | 11207.9 | 8595.2 | 6021.0 | 4462.9 | 3727.9 | 3608.9 |
| 65°   | 2677.7 | 2724.0 | 3669.5 | 5330.1 | 8640.3 | 11168.2 | 8231.5 | 5278.3 | 3695.9 | 2852.9 | 2720.7 |
| 67.5° | 1011.6 | 1017.1 | 1354.3 | 2656.8 | 6151.0 | 9608.9  | 6282.2 | 2871.7 | 1557.0 | 1126.2 | 1085.4 |
| 70°   | 419.8  | 427.6  | 497.0  | 893.7  | 2643.6 | 6169.8  | 3029.2 | 1035.8 | 569.7  | 461.7  | 455.1  |
| 72.5° | 307.4  | 311.8  | 332.8  | 396.7  | 813.2  | 2533.4  | 996.2  | 439.7  | 333.9  | 298.6  | 295.3  |
| 75°   | 241.3  | 243.5  | 259.0  | 292.0  | 379.1  | 701.9   | 414.3  | 301.9  | 254.5  | 229.2  | 227.0  |
| 77.5° | 184.0  | 189.5  | 200.6  | 222.6  | 254.5  | 332.8   | 274.4  | 225.9  | 196.1  | 175.2  | 171.9  |
| 80°   | 126.7  | 133.3  | 154.3  | 163.1  | 170.8  | 216.0   | 187.3  | 170.8  | 153.2  | 127.8  | 120.1  |
| 82.5° | 78.2   | 82.6   | 103.6  | 111.3  | 108.0  | 121.2   | 120.1  | 122.3  | 109.1  | 79.3   | 73.8   |
| 85°   | 40.8   | 43.0   | 56.2   | 58.4   | 54.0   | 49.6    | 61.7   | 71.6   | 67.2   | 45.2   | 44.1   |
| 87.5° | 8.8    | 9.9    | 12.1   | 11.0   | 12.1   | 12.1    | 15.4   | 23.1   | 24.2   | 15.4   | 14.3   |
| 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)