

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P639668

Luminaire Tested: GWS-SA5C-735-U-5NQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639668  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5C-735-U-5NQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

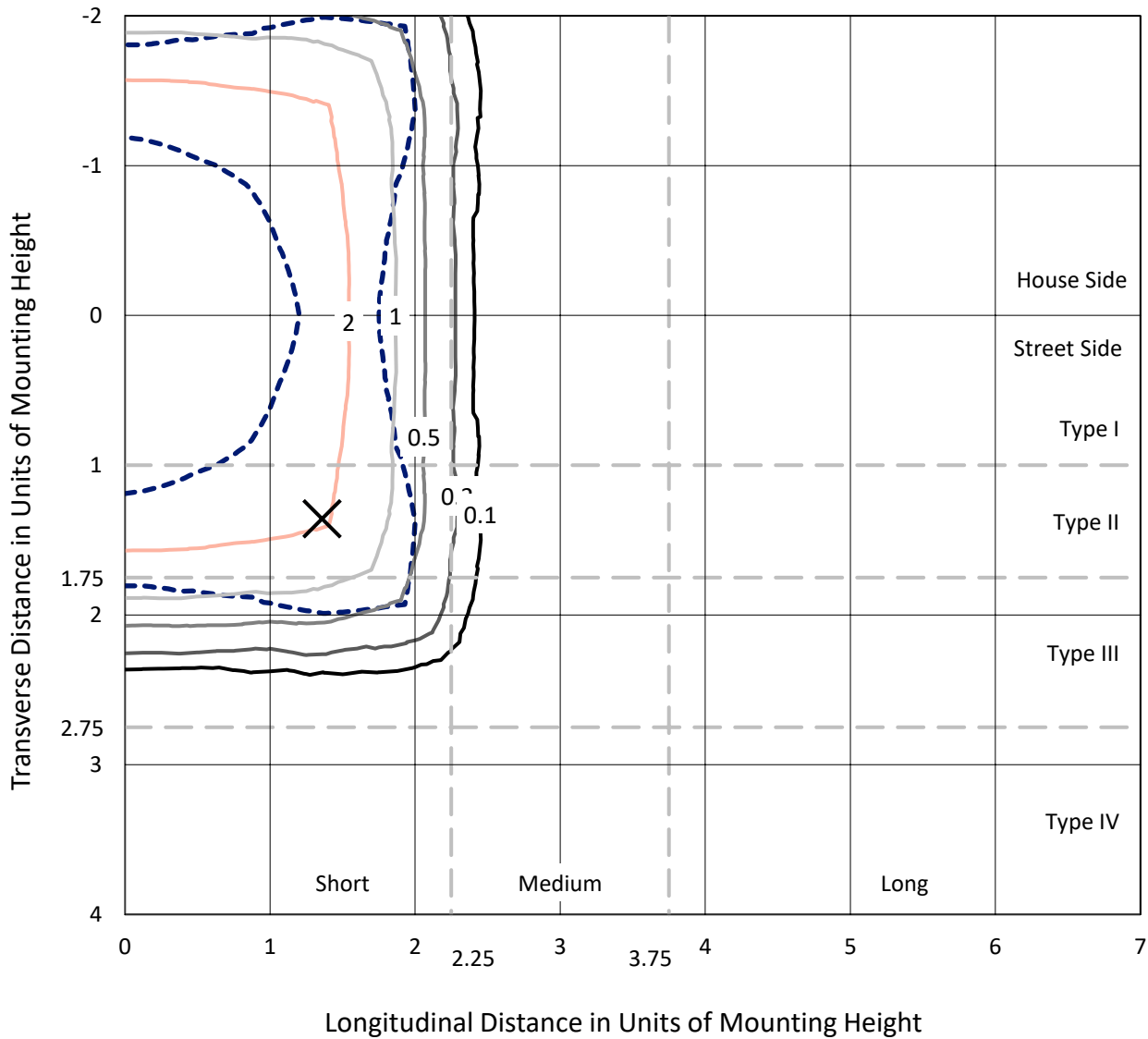
Lumens per Lamp: N/A  
Luminaire Lumens: 24547.7 lumens  
Efficiency: N/A  
Efficacy: 155.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

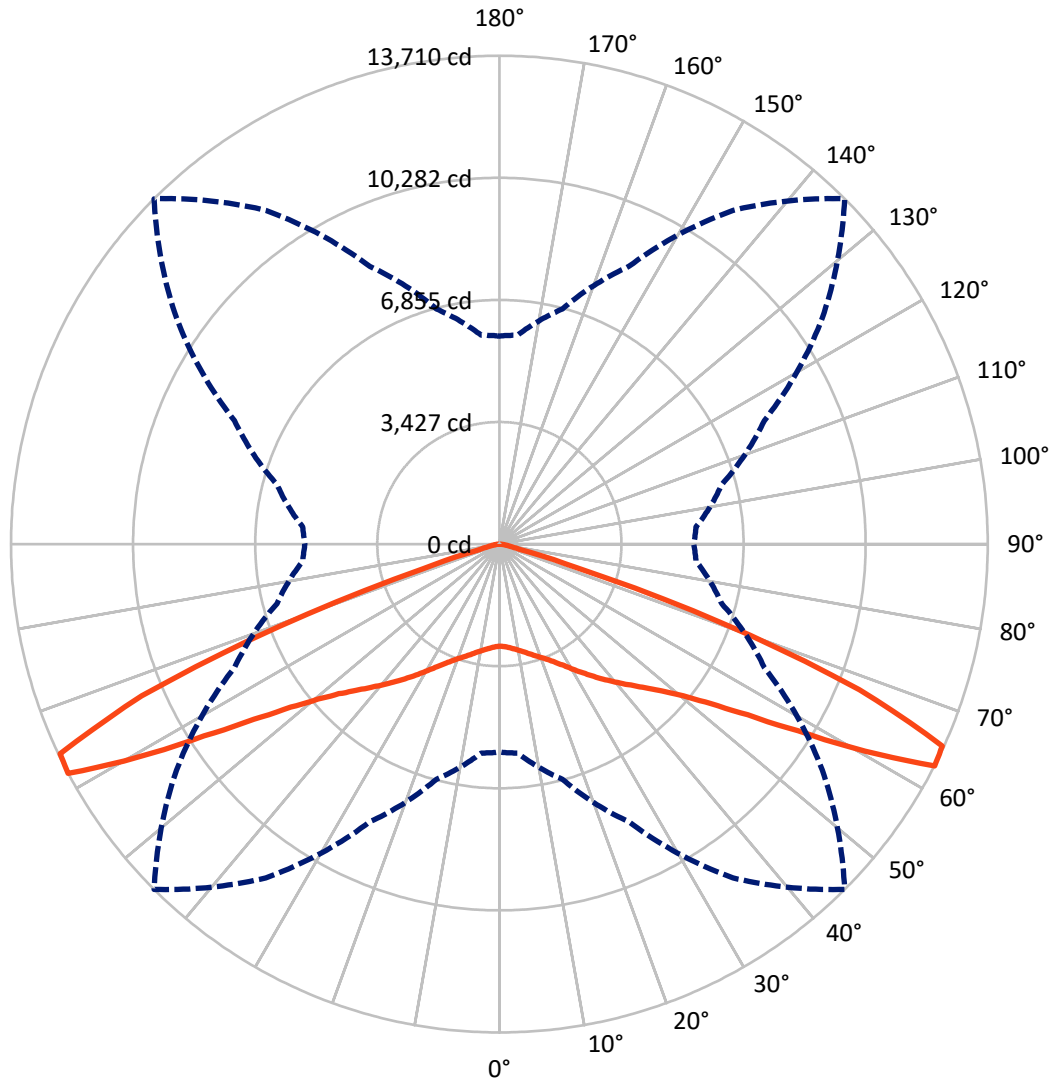
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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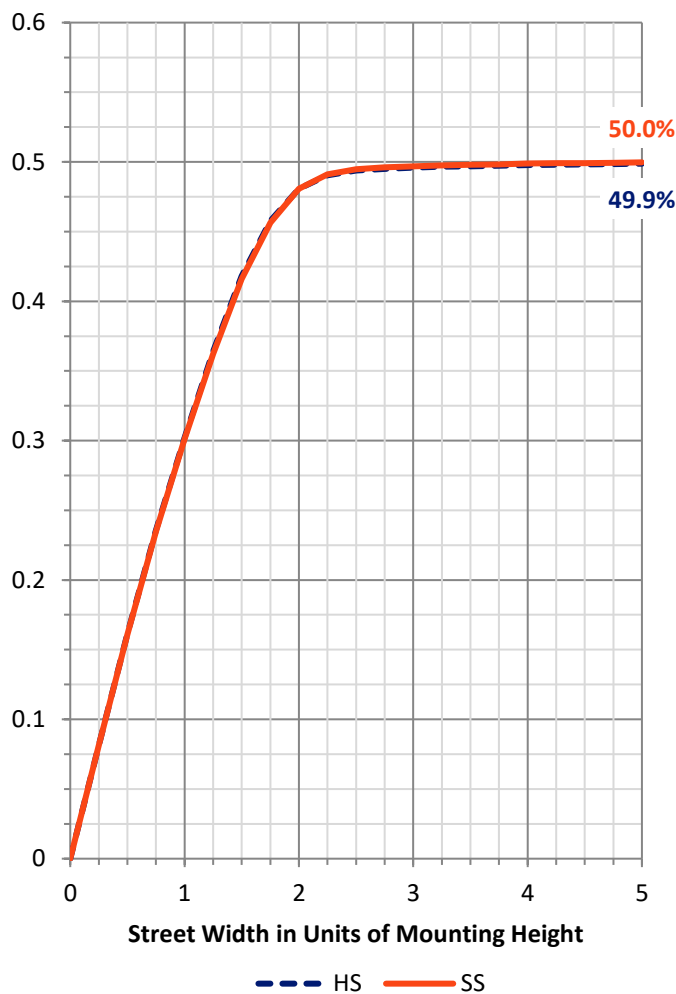
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12273.9  | 0.0    | 12273.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 12273.9  | 0.0    | 12273.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 24547.7  | 0.0    | 24547.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 281.0   | 1.1       |
| 10°-20°   | 906.1   | 3.7       |
| 20°-30°   | 1714.3  | 7.0       |
| 30°-40°   | 2885.4  | 11.8      |
| 40°-50°   | 4609.9  | 18.8      |
| 50°-60°   | 7431.0  | 30.3      |
| 60°-70°   | 6062.8  | 24.7      |
| 70°-80°   | 588.7   | 2.4       |
| 80°-90°   | 68.5    | 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°    | 24547.7 | 100.0     |
| 0°-180°   | 24547.7 | 100.0     |

**Coefficient of Utilization**



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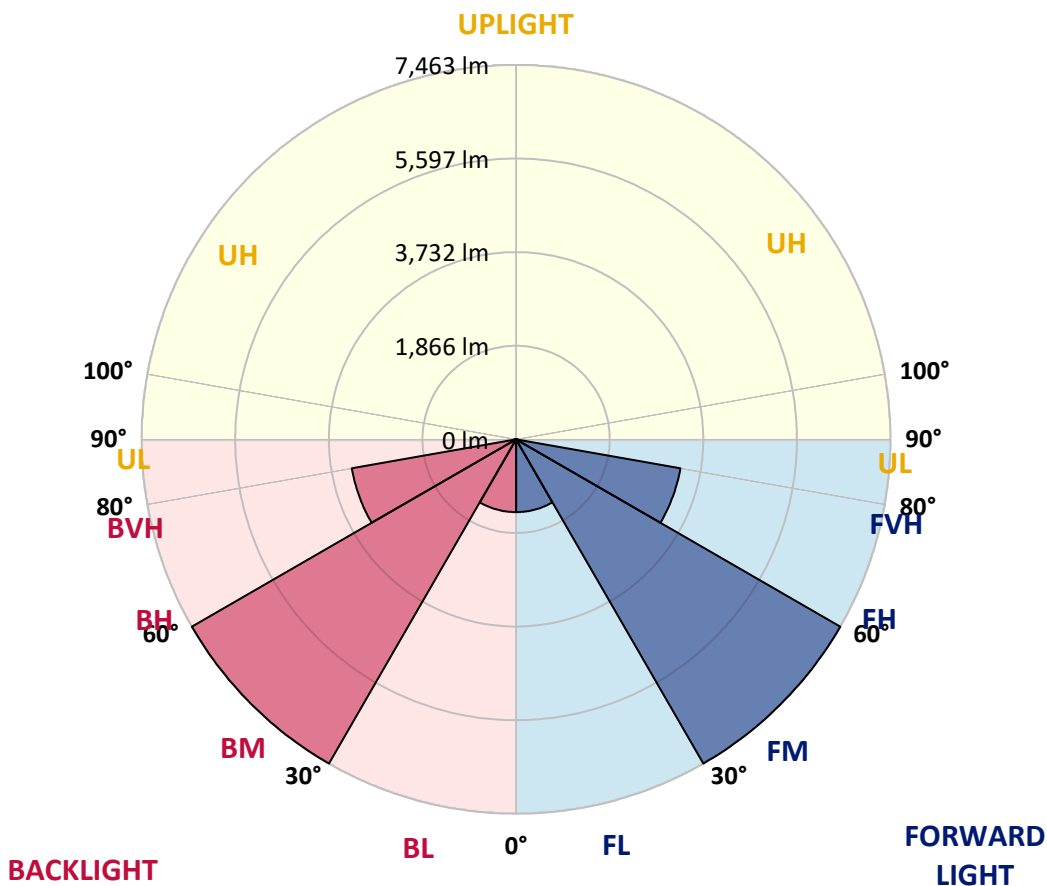
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1450.7 | 5.9       |                         |      |         |
| FM (30°-60°)   | 7463.1 | 30.4      |                         |      |         |
| FH (60°-80°)   | 3325.8 | 13.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 34.3   | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1450.7 | 5.9       | B3/2500                 |      |         |
| BM (30°-60°)   | 7463.1 | 30.4      | B4/8500                 |      |         |
| BH (60°-80°)   | 3325.8 | 13.5      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 34.3   | 0.1       |                         |      | 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°    | 2863.8 | 2863.8 | 2863.8 | 2863.8 | 2863.8  | 2863.8  | 2863.8  | 2863.8 | 2863.8 | 2863.8 | 2863.8 |
| 2.5°  | 2860.5 | 2860.5 | 2867.2 | 2872.2 | 2868.9  | 2882.3  | 2880.7  | 2877.3 | 2875.6 | 2870.6 | 2885.7 |
| 5°    | 2899.2 | 2899.2 | 2904.2 | 2909.3 | 2900.9  | 2917.7  | 2911.0  | 2907.6 | 2905.9 | 2899.2 | 2912.6 |
| 7.5°  | 2942.9 | 2948.0 | 2949.7 | 2958.1 | 2953.1  | 2971.6  | 2966.5  | 2959.8 | 2956.4 | 2948.0 | 2959.8 |
| 10°   | 2991.8 | 2995.1 | 2996.8 | 3012.0 | 3013.7  | 3035.5  | 3030.5  | 3022.1 | 3015.3 | 3006.9 | 3023.8 |
| 12.5° | 3057.4 | 3059.1 | 3064.2 | 3082.7 | 3087.7  | 3104.6  | 3102.9  | 3091.1 | 3082.7 | 3070.9 | 3089.4 |
| 15°   | 3141.6 | 3143.3 | 3151.7 | 3170.2 | 3178.7  | 3198.9  | 3192.1  | 3173.6 | 3161.8 | 3148.4 | 3163.5 |
| 17.5° | 3229.2 | 3235.9 | 3244.3 | 3262.8 | 3274.6  | 3298.2  | 3289.8  | 3269.6 | 3259.5 | 3246.0 | 3256.1 |
| 20°   | 3342.0 | 3343.6 | 3348.7 | 3368.9 | 3377.3  | 3404.3  | 3405.9  | 3385.7 | 3380.7 | 3367.2 | 3382.4 |
| 22.5° | 3466.6 | 3468.2 | 3473.3 | 3495.2 | 3510.3  | 3527.2  | 3537.3  | 3525.5 | 3517.1 | 3500.2 | 3518.7 |
| 25°   | 3604.6 | 3621.4 | 3626.5 | 3653.4 | 3670.3  | 3680.4  | 3692.2  | 3687.1 | 3675.3 | 3655.1 | 3663.5 |
| 27.5° | 3798.2 | 3801.6 | 3810.0 | 3840.3 | 3850.4  | 3860.5  | 3872.3  | 3874.0 | 3857.2 | 3833.6 | 3845.4 |
| 30°   | 4018.8 | 4017.1 | 4035.6 | 4059.2 | 4067.6  | 4076.0  | 4092.9  | 4103.0 | 4081.1 | 4055.8 | 4067.6 |
| 32.5° | 4244.4 | 4264.6 | 4288.2 | 4310.0 | 4305.0  | 4308.4  | 4335.3  | 4353.8 | 4323.5 | 4278.1 | 4288.2 |
| 35°   | 4498.6 | 4512.1 | 4542.4 | 4574.4 | 4567.6  | 4562.6  | 4579.4  | 4597.9 | 4555.8 | 4496.9 | 4512.1 |
| 37.5° | 4759.6 | 4779.8 | 4825.2 | 4863.9 | 4853.8  | 4830.3  | 4848.8  | 4869.0 | 4828.6 | 4761.2 | 4754.5 |
| 40°   | 5050.8 | 5082.8 | 5148.5 | 5180.5 | 5153.5  | 5108.1  | 5140.1  | 5188.9 | 5148.5 | 5071.0 | 5052.5 |
| 42.5° | 5392.6 | 5431.3 | 5497.0 | 5545.8 | 5486.9  | 5412.8  | 5466.7  | 5537.4 | 5527.3 | 5424.6 | 5392.6 |
| 45°   | 5815.2 | 5840.4 | 5921.3 | 5944.8 | 5857.3  | 5754.6  | 5852.2  | 5960.0 | 5934.7 | 5823.6 | 5781.5 |
| 47.5° | 6274.8 | 6313.5 | 6384.2 | 6428.0 | 6286.6  | 6158.6  | 6295.0  | 6439.8 | 6412.9 | 6308.5 | 6259.7 |
| 50°   | 6860.7 | 6911.2 | 7003.8 | 7040.9 | 6845.6  | 6699.1  | 6874.2  | 7057.7 | 7005.5 | 6865.8 | 6801.8 |
| 52.5° | 7498.8 | 7539.2 | 7697.5 | 7771.5 | 7588.0  | 7429.8  | 7583.0  | 7763.1 | 7652.0 | 7466.8 | 7380.9 |
| 55°   | 8061.1 | 8101.5 | 8333.9 | 8579.7 | 8571.3  | 8461.8  | 8539.3  | 8542.6 | 8241.3 | 7934.9 | 7843.9 |
| 57.5° | 8182.3 | 8222.8 | 8665.5 | 9308.7 | 9763.3  | 9889.5  | 9662.2  | 9184.1 | 8424.8 | 7887.7 | 7785.0 |
| 60°   | 7535.8 | 7581.3 | 8285.0 | 9460.2 | 10955.2 | 11798.7 | 10751.5 | 9170.6 | 7857.4 | 7130.1 | 7032.4 |
| 62.5° | 5838.8 | 5887.6 | 6833.8 | 8598.2 | 11436.8 | 13709.6 | 11068.1 | 8205.9 | 6463.4 | 5542.4 | 5456.6 |
| 65°   | 2788.1 | 2788.1 | 3990.2 | 6167.1 | 10477.1 | 13664.2 | 10152.2 | 6071.1 | 3890.8 | 2988.4 | 2914.3 |
| 67.5° | 690.3  | 693.6  | 1027.0 | 2400.8 | 7126.7  | 10904.7 | 7242.9  | 2914.3 | 1370.5 | 969.8  | 944.5  |
| 70°   | 431.0  | 429.3  | 476.5  | 649.9  | 2493.4  | 6618.3  | 2961.5  | 878.8  | 557.3  | 491.6  | 488.2  |
| 72.5° | 335.0  | 335.0  | 358.6  | 415.9  | 653.2   | 2254.4  | 863.7   | 488.2  | 404.1  | 363.7  | 363.7  |
| 75°   | 264.3  | 264.3  | 281.2  | 311.5  | 385.5   | 580.8   | 459.6   | 362.0  | 313.2  | 286.2  | 282.8  |
| 77.5° | 197.0  | 200.3  | 213.8  | 234.0  | 262.6   | 326.6   | 291.3   | 272.7  | 244.1  | 223.9  | 217.2  |
| 80°   | 128.0  | 133.0  | 149.8  | 161.6  | 171.7   | 215.5   | 190.2   | 198.7  | 185.2  | 161.6  | 158.3  |
| 82.5° | 69.0   | 70.7   | 90.9   | 94.3   | 97.6    | 117.9   | 121.2   | 126.3  | 131.3  | 102.7  | 96.0   |
| 85°   | 25.3   | 25.3   | 30.3   | 35.4   | 38.7    | 42.1    | 57.2    | 70.7   | 74.1   | 58.9   | 57.2   |
| 87.5° | 5.1    | 5.1    | 5.1    | 3.4    | 3.4     | 3.4     | 10.1    | 18.5   | 30.3   | 23.6   | 23.6   |
| 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)