

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: P950941

Luminaire Tested: **GALN-SB5B-730-U-5MQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P950941  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5B-730-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 29789 lumens  
Efficiency: N/A  
Efficacy: 163.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 182.7  
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

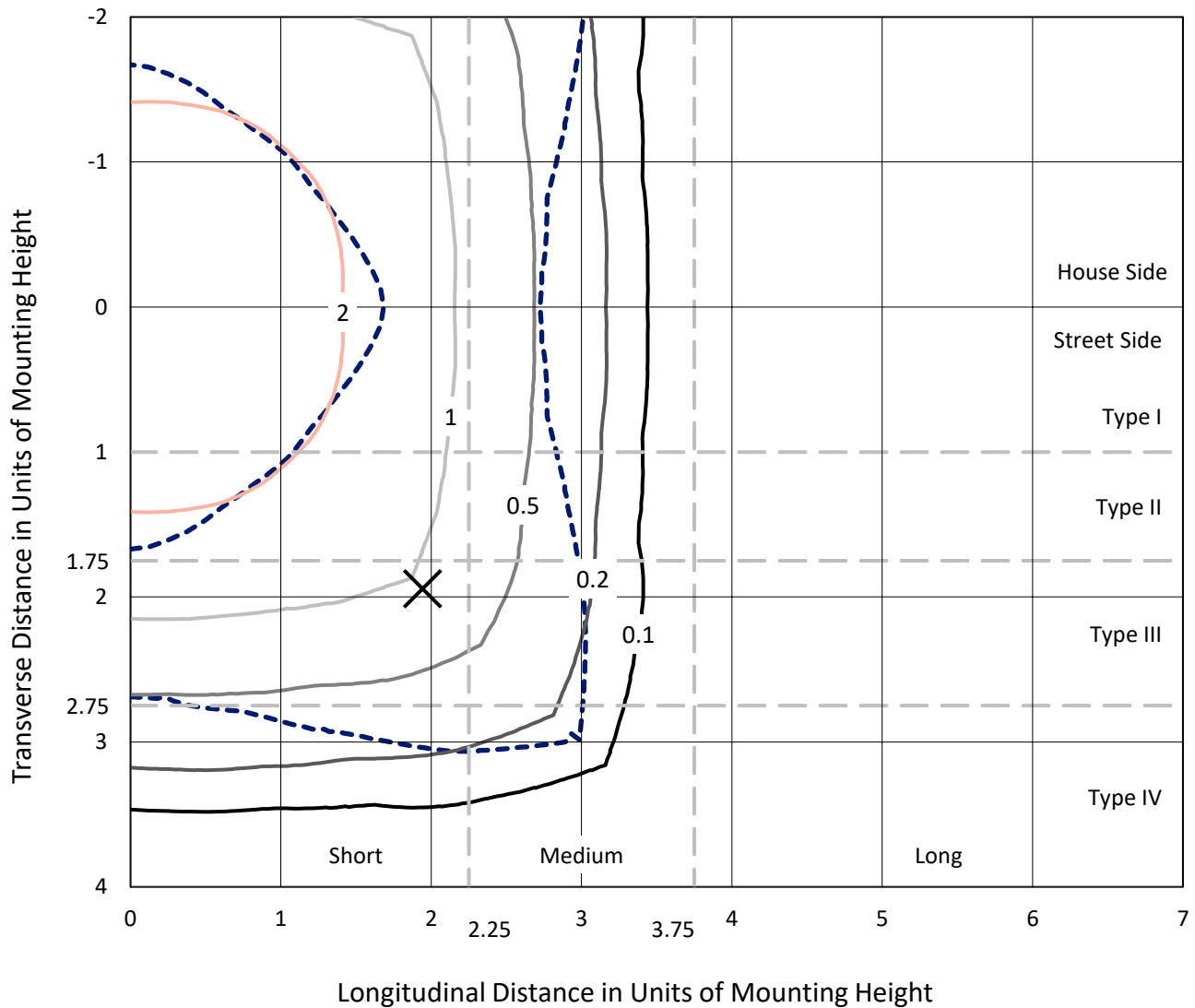


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
--- 1/2 Max cd

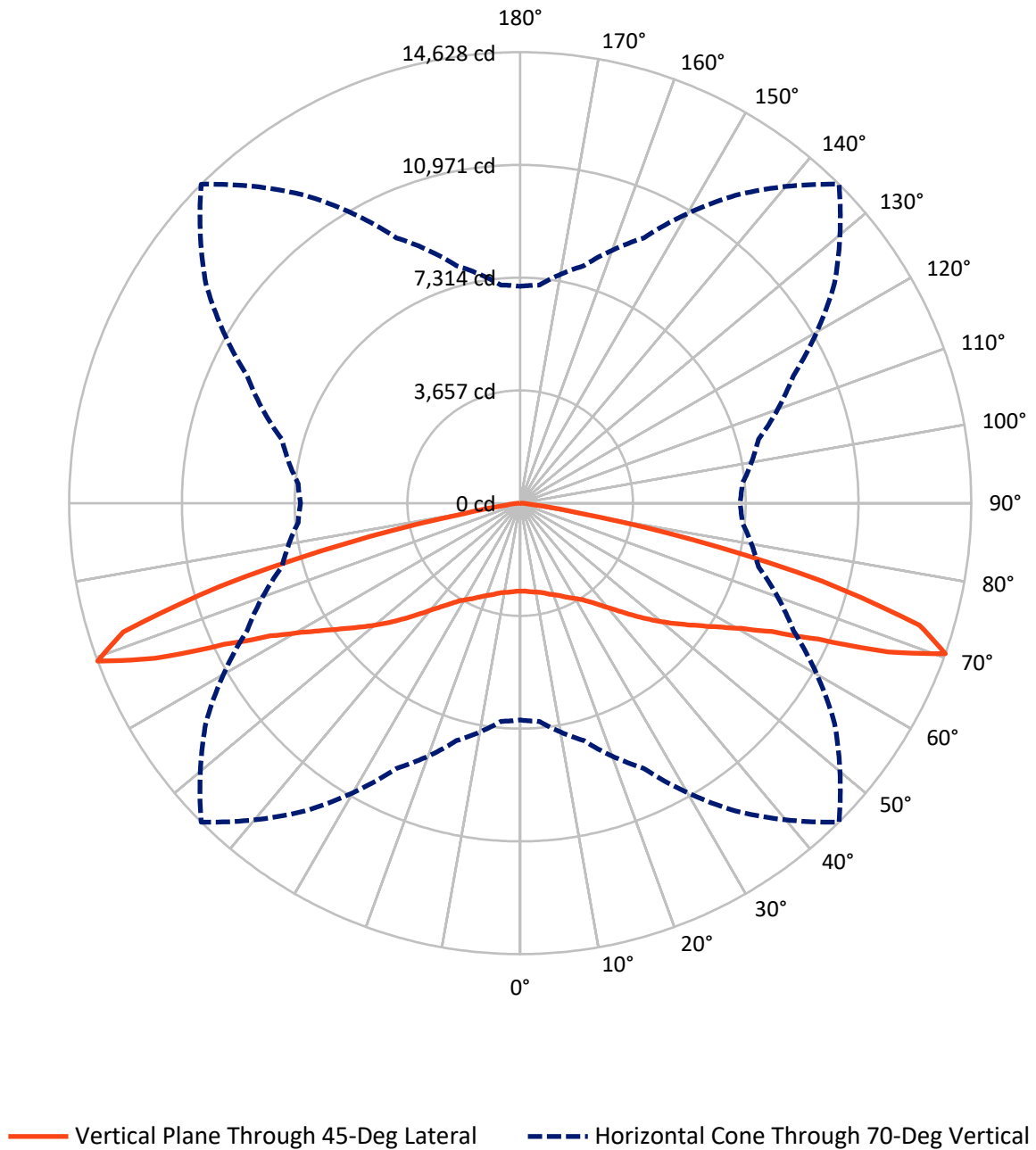


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
Type V - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 14894.5  | 0.0    | 14894.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 14894.5  | 0.0    | 14894.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 29789.0  | 0.0    | 29789.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 277.2   | 0.9       |
| 10°-20°   | 859.6   | 2.9       |
| 20°-30°   | 1536.2  | 5.2       |
| 30°-40°   | 2490.2  | 8.4       |
| 40°-50°   | 4056.1  | 13.6      |
| 50°-60°   | 6184.2  | 20.8      |
| 60°-70°   | 9200.2  | 30.9      |
| 70°-80°   | 5014.4  | 16.8      |
| 80°-90°   | 170.8   | 0.6       |
| 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°    | 29789.0 | 100.0     |
| 0°-180°   | 29789.0 | 100.0     |

**Coefficient of Utilization**



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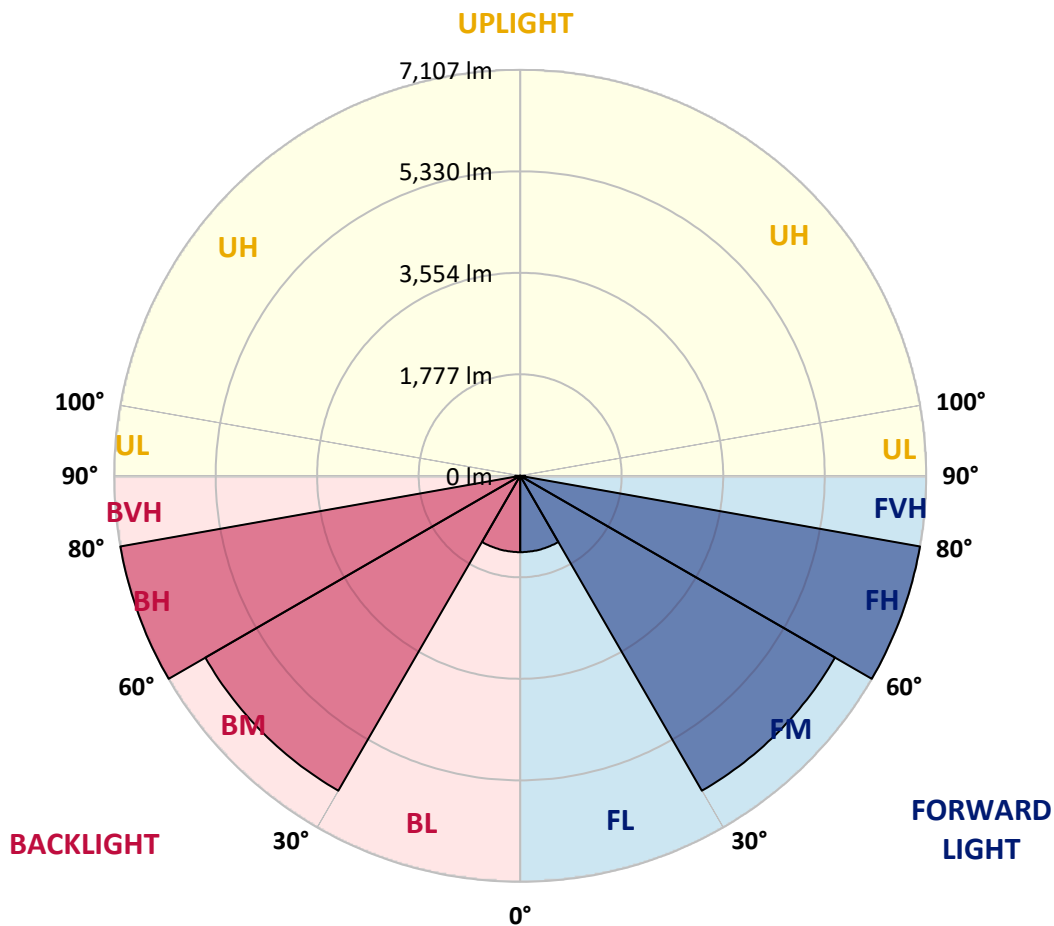
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1336.5 | 4.5       |                         |      |         |
| FM   | (30°-60°)   | 6365.3 | 21.4      |                         |      |         |
| FH   | (60°-80°)   | 7107.3 | 23.9      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 85.4   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1336.5 | 4.5       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 6365.3 | 21.4      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 7107.3 | 23.9      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 85.4   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 55°     | 65°     | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0°    | 2853.5 | 2853.5 | 2853.5 | 2853.5  | 2853.5  | 2853.5  | 2853.5  | 2853.5  | 2853.5 | 2853.5 | 2853.5 |
| 2.5°  | 2866.9 | 2869.9 | 2863.9 | 2861.0  | 2858.0  | 2853.5  | 2855.0  | 2862.5  | 2868.4 | 2866.9 | 2868.4 |
| 5°    | 2890.9 | 2893.9 | 2889.4 | 2887.9  | 2881.9  | 2880.4  | 2880.4  | 2887.9  | 2892.4 | 2889.4 | 2890.9 |
| 7.5°  | 2917.8 | 2922.3 | 2914.8 | 2913.3  | 2910.3  | 2907.3  | 2905.8  | 2913.3  | 2917.8 | 2917.8 | 2917.8 |
| 10°   | 2943.2 | 2947.7 | 2941.7 | 2937.2  | 2934.2  | 2934.2  | 2931.2  | 2937.2  | 2944.7 | 2943.2 | 2943.2 |
| 12.5° | 2970.1 | 2973.1 | 2967.1 | 2964.1  | 2964.1  | 2968.6  | 2964.1  | 2967.1  | 2973.1 | 2970.1 | 2968.6 |
| 15°   | 3003.0 | 3004.5 | 3003.0 | 3007.5  | 3015.0  | 3030.0  | 3016.5  | 3013.5  | 3016.5 | 3009.0 | 3009.0 |
| 17.5° | 3047.9 | 3050.9 | 3056.9 | 3067.3  | 3077.8  | 3104.7  | 3080.8  | 3073.3  | 3073.3 | 3058.4 | 3058.4 |
| 20°   | 3103.2 | 3107.7 | 3116.7 | 3134.6  | 3148.1  | 3173.5  | 3149.6  | 3139.1  | 3134.6 | 3115.2 | 3115.2 |
| 22.5° | 3161.6 | 3169.0 | 3182.5 | 3206.4  | 3230.4  | 3254.3  | 3230.4  | 3212.4  | 3198.9 | 3173.5 | 3172.0 |
| 25°   | 3228.9 | 3237.8 | 3258.8 | 3297.7  | 3330.6  | 3365.0  | 3336.5  | 3300.6  | 3273.7 | 3237.8 | 3236.3 |
| 27.5° | 3324.6 | 3335.0 | 3360.5 | 3408.3  | 3450.2  | 3480.1  | 3453.2  | 3406.8  | 3369.4 | 3326.1 | 3324.6 |
| 30°   | 3459.2 | 3469.6 | 3499.5 | 3550.4  | 3578.8  | 3598.3  | 3580.3  | 3544.4  | 3499.5 | 3450.2 | 3450.2 |
| 32.5° | 3632.7 | 3646.1 | 3679.0 | 3726.9  | 3732.9  | 3735.8  | 3729.9  | 3711.9  | 3679.0 | 3619.2 | 3620.7 |
| 35°   | 3852.5 | 3867.4 | 3904.8 | 3943.7  | 3937.7  | 3943.7  | 3934.7  | 3928.8  | 3904.8 | 3836.0 | 3836.0 |
| 37.5° | 4121.7 | 4139.6 | 4178.5 | 4208.4  | 4193.5  | 4186.0  | 4187.5  | 4189.0  | 4175.5 | 4099.3 | 4099.3 |
| 40°   | 4434.3 | 4458.2 | 4486.6 | 4518.0  | 4492.6  | 4470.1  | 4485.1  | 4497.1  | 4485.1 | 4407.3 | 4407.3 |
| 42.5° | 4755.8 | 4790.2 | 4820.1 | 4865.0  | 4844.0  | 4815.6  | 4836.6  | 4850.0  | 4824.6 | 4740.8 | 4746.8 |
| 45°   | 5113.2 | 5146.1 | 5185.0 | 5252.3  | 5237.4  | 5207.4  | 5237.4  | 5240.3  | 5197.0 | 5098.3 | 5108.7 |
| 47.5° | 5482.6 | 5517.0 | 5575.3 | 5665.1  | 5659.1  | 5626.2  | 5665.1  | 5644.1  | 5588.8 | 5470.7 | 5463.2 |
| 50°   | 5832.6 | 5880.4 | 5970.2 | 6095.8  | 6107.8  | 6067.4  | 6119.7  | 6079.3  | 5986.6 | 5838.6 | 5835.6 |
| 52.5° | 6161.6 | 6212.4 | 6354.5 | 6525.0  | 6568.4  | 6516.0  | 6586.3  | 6516.0  | 6377.0 | 6187.0 | 6169.1 |
| 55°   | 6507.1 | 6563.9 | 6732.9 | 6955.7  | 7042.5  | 7003.6  | 7069.4  | 6963.2  | 6765.8 | 6535.5 | 6504.1 |
| 57.5° | 6913.9 | 6948.2 | 7150.1 | 7414.9  | 7561.4  | 7570.4  | 7600.3  | 7420.8  | 7181.6 | 6919.8 | 6883.9 |
| 60°   | 7355.0 | 7402.9 | 7622.7 | 7939.8  | 8171.6  | 8246.4  | 8215.0  | 7948.8  | 7670.6 | 7370.0 | 7322.1 |
| 62.5° | 7920.3 | 7972.7 | 8235.9 | 8615.8  | 8982.2  | 9167.6  | 9045.0  | 8659.1  | 8315.2 | 7954.7 | 7891.9 |
| 65°   | 8388.4 | 8446.8 | 8922.4 | 9599.8  | 10266.8 | 10639.2 | 10331.1 | 9620.8  | 9001.6 | 8493.1 | 8409.4 |
| 67.5° | 8049.0 | 8120.7 | 8867.0 | 10111.3 | 11769.8 | 12881.0 | 11826.7 | 10263.8 | 9051.0 | 8361.5 | 8258.3 |
| 70°   | 7035.0 | 7102.3 | 7972.7 | 9493.6  | 12193.1 | 14627.8 | 12447.3 | 9773.3  | 8001.1 | 7229.4 | 7126.2 |
| 72.5° | 4670.6 | 4887.4 | 5768.3 | 7592.8  | 10887.5 | 13536.1 | 10995.2 | 7438.8  | 5351.0 | 4660.1 | 4509.0 |
| 75°   | 1549.4 | 1722.9 | 2324.1 | 3936.2  | 7292.2  | 10123.3 | 6942.3  | 3483.1  | 1841.0 | 1325.0 | 1253.3 |
| 77.5° | 390.3  | 450.2  | 620.6  | 1126.1  | 2908.8  | 5763.8  | 2618.7  | 919.8   | 501.0  | 350.0  | 312.6  |
| 80°   | 189.9  | 209.4  | 299.1  | 375.4   | 728.3   | 1832.0  | 683.5   | 352.9   | 236.3  | 182.5  | 167.5  |
| 82.5° | 104.7  | 106.2  | 169.0  | 212.4   | 270.7   | 474.1   | 281.2   | 206.4   | 136.1  | 110.7  | 110.7  |
| 85°   | 64.3   | 62.8   | 89.7   | 113.7   | 113.7   | 169.0   | 134.6   | 113.7   | 77.8   | 68.8   | 71.8   |
| 87.5° | 25.4   | 25.4   | 32.9   | 35.9    | 31.4    | 43.4    | 34.4    | 37.4    | 29.9   | 28.4   | 29.9   |
| 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)