

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: P529165

Luminaire Tested: **GALN-SA4B-740-U-RW-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529165  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-740-U-RW-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14547 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0

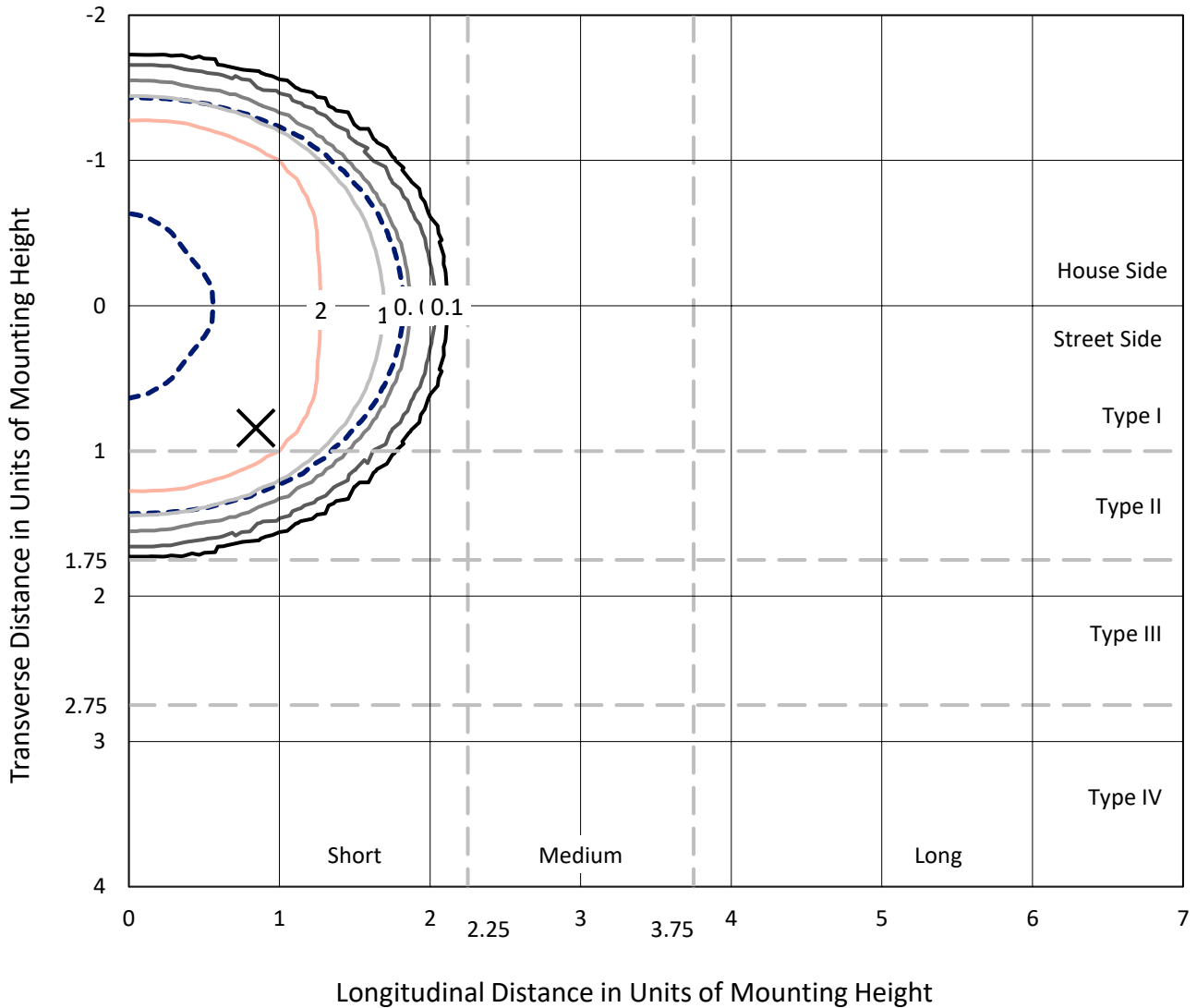
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

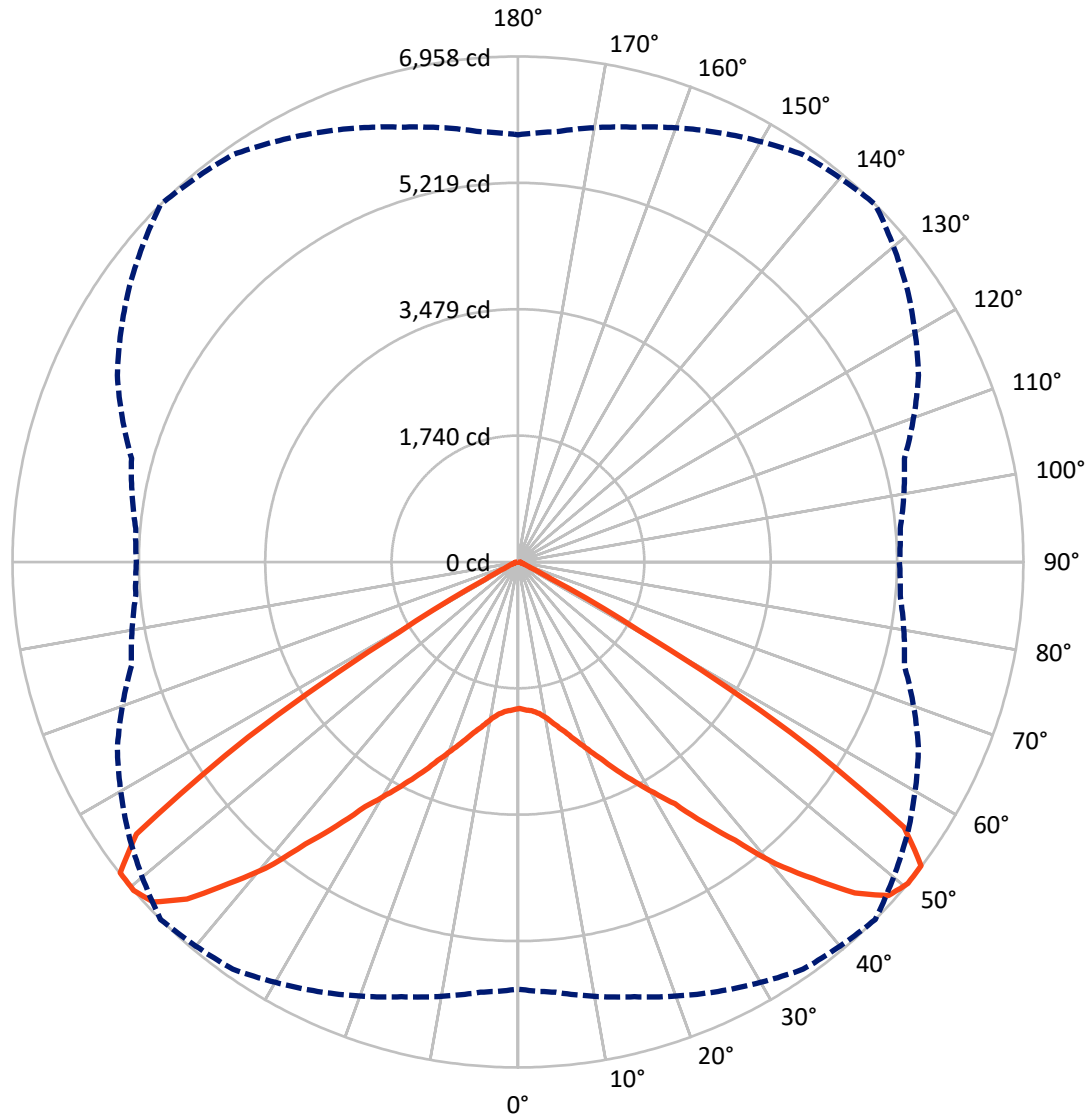
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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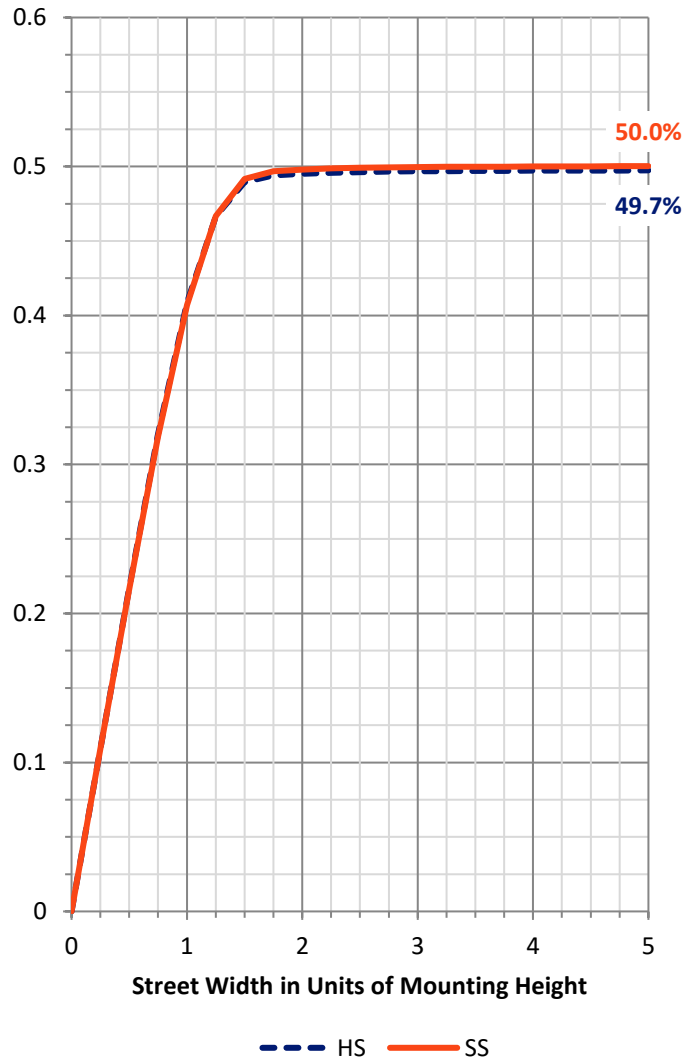
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7273.5   | 0.0    | 7273.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 7273.5   | 0.0    | 7273.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 14547.0  | 0.0    | 14547.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 200.6   | 1.4       |
| 10°-20°   | 691.5   | 4.8       |
| 20°-30°   | 1412.4  | 9.7       |
| 30°-40°   | 2693.4  | 18.5      |
| 40°-50°   | 4538.7  | 31.2      |
| 50°-60°   | 4328.5  | 29.8      |
| 60°-70°   | 604.2   | 4.2       |
| 70°-80°   | 57.8    | 0.4       |
| 80°-90°   | 20.0    | 0.1       |
| 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°    | 14547.0 | 100.0     |
| 0°-180°   | 14547.0 | 100.0     |

**Coefficient of Utilization**



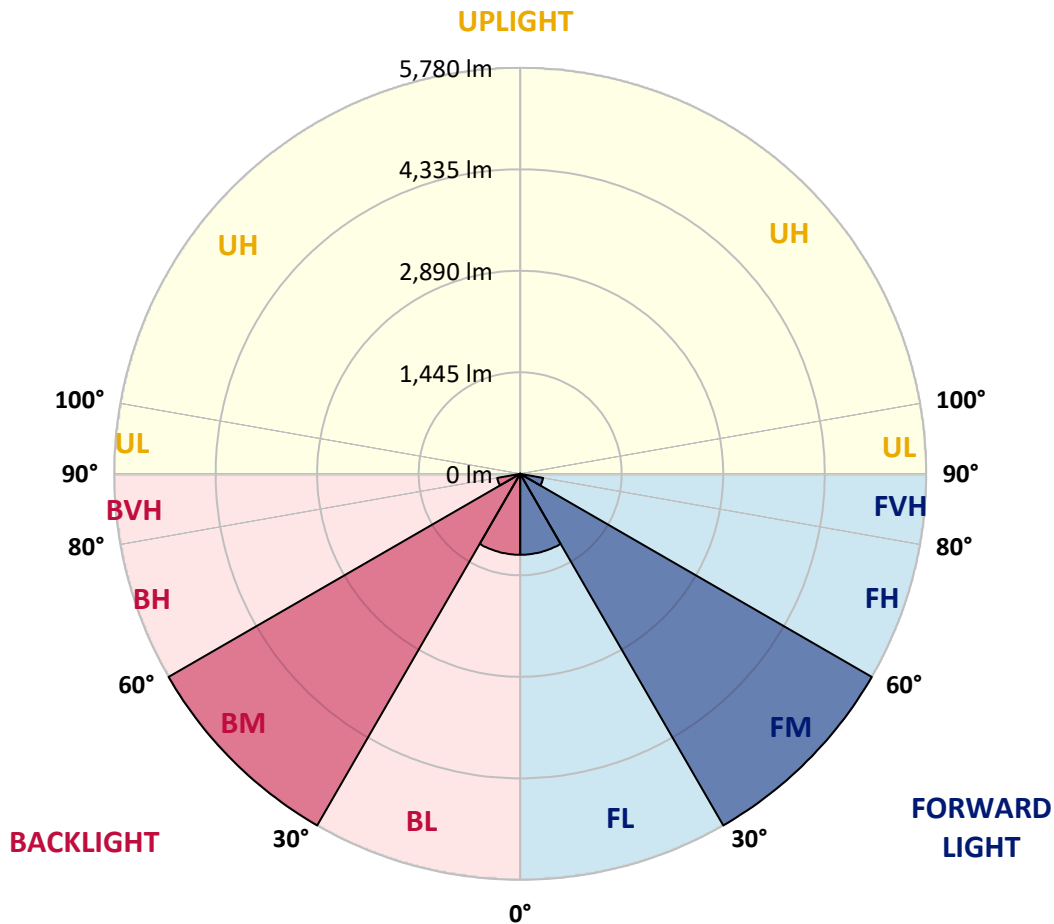
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 1152.3 | 7.9       |                         |      |        |
| FM (30°-60°)   | 5780.3 | 39.7      |                         |      |        |
| FH (60°-80°)   | 331.0  | 2.3       |                         |      | G0/660 |
| FVH (80°-90°)  | 10.0   | 0.1       |                         |      | G0/10  |
| BL (0°-30°)    | 1152.3 | 7.9       | B3/2500                 |      |        |
| BM (30°-60°)   | 5780.3 | 39.7      | B4/8500                 |      |        |
| BH (60°-80°)   | 331.0  | 2.3       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 10.0   | 0.1       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B4-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2016.8 | 2016.8 | 2016.8 | 2016.8 | 2016.8 | 2016.8 | 2016.8 | 2016.8 | 2016.8 | 2016.8 | 2016.8 |
| 2.5°  | 2009.4 | 2009.4 | 2007.0 | 2026.6 | 2016.8 | 2038.8 | 2036.4 | 2043.7 | 2051.0 | 2048.6 | 2068.2 |
| 5°    | 1992.3 | 1989.9 | 1989.9 | 2011.9 | 2033.9 | 2058.4 | 2080.4 | 2095.1 | 2119.6 | 2119.6 | 2144.1 |
| 7.5°  | 2009.4 | 1997.2 | 2014.3 | 2024.1 | 2065.7 | 2107.3 | 2144.1 | 2173.4 | 2229.7 | 2249.3 | 2242.0 |
| 10°   | 2014.3 | 2029.0 | 2041.3 | 2070.6 | 2122.0 | 2185.7 | 2217.5 | 2290.9 | 2354.5 | 2398.6 | 2408.4 |
| 12.5° | 2046.2 | 2068.2 | 2102.4 | 2173.4 | 2219.9 | 2303.1 | 2347.2 | 2418.2 | 2506.3 | 2555.2 | 2589.5 |
| 15°   | 2107.3 | 2114.7 | 2158.7 | 2249.3 | 2349.6 | 2425.5 | 2494.1 | 2545.5 | 2631.1 | 2687.4 | 2689.9 |
| 17.5° | 2185.7 | 2217.5 | 2278.7 | 2364.3 | 2469.6 | 2582.2 | 2636.0 | 2692.3 | 2724.1 | 2800.0 | 2817.1 |
| 20°   | 2342.3 | 2347.2 | 2405.9 | 2518.5 | 2650.7 | 2753.5 | 2792.7 | 2822.0 | 2809.8 | 2888.1 | 2902.8 |
| 22.5° | 2489.2 | 2494.1 | 2567.5 | 2719.2 | 2861.2 | 2949.3 | 2966.4 | 2949.3 | 2912.6 | 2968.9 | 2973.8 |
| 25°   | 2638.5 | 2682.5 | 2736.4 | 2888.1 | 3064.3 | 3181.8 | 3184.3 | 3137.8 | 3061.9 | 3071.7 | 3096.2 |
| 27.5° | 2871.0 | 2902.8 | 2959.1 | 3098.6 | 3292.0 | 3424.1 | 3402.1 | 3345.8 | 3247.9 | 3255.2 | 3247.9 |
| 30°   | 3142.7 | 3172.0 | 3218.5 | 3397.2 | 3539.2 | 3683.6 | 3715.4 | 3661.5 | 3514.7 | 3482.9 | 3519.6 |
| 32.5° | 3470.6 | 3512.2 | 3597.9 | 3761.9 | 3881.8 | 3969.9 | 3992.0 | 3972.4 | 3835.3 | 3823.1 | 3847.5 |
| 35°   | 3869.6 | 3925.9 | 4004.2 | 4148.6 | 4246.5 | 4405.6 | 4405.6 | 4339.5 | 4214.7 | 4229.4 | 4226.9 |
| 37.5° | 4290.6 | 4373.8 | 4496.2 | 4643.0 | 4775.2 | 4860.8 | 4833.9 | 4777.6 | 4652.8 | 4621.0 | 4652.8 |
| 40°   | 4819.2 | 4860.8 | 5015.0 | 5205.9 | 5367.5 | 5465.4 | 5350.3 | 5228.0 | 4929.4 | 4975.9 | 5061.5 |
| 42.5° | 5301.4 | 5367.5 | 5485.0 | 5695.4 | 5879.0 | 5959.8 | 5822.7 | 5580.4 | 5220.6 | 5183.9 | 5247.5 |
| 45°   | 5712.6 | 5783.6 | 5937.8 | 6238.8 | 6432.2 | 6503.1 | 6199.6 | 5808.0 | 5396.8 | 5303.8 | 5330.8 |
| 47.5° | 5986.7 | 6023.4 | 6238.8 | 6525.2 | 6701.4 | 6862.9 | 6427.3 | 5964.7 | 5480.1 | 5303.8 | 5294.1 |
| 50°   | 5881.5 | 5945.1 | 6197.2 | 6522.7 | 6843.4 | 6958.4 | 6542.3 | 6084.6 | 5507.0 | 5281.8 | 5252.4 |
| 52.5° | 5223.1 | 5333.2 | 5614.7 | 6052.8 | 6537.4 | 6948.6 | 6701.4 | 6045.4 | 5497.2 | 5303.8 | 5347.9 |
| 55°   | 3634.6 | 3637.1 | 3979.7 | 4625.9 | 5482.5 | 6451.7 | 6468.9 | 6089.5 | 5560.8 | 5440.9 | 5443.4 |
| 57.5° | 1461.2 | 1534.6 | 1796.5 | 2445.1 | 3235.7 | 4430.1 | 5267.1 | 5648.9 | 5568.2 | 5538.8 | 5614.7 |
| 60°   | 369.6  | 372.0  | 452.8  | 690.2  | 1138.1 | 1899.3 | 2758.4 | 3732.5 | 4297.9 | 4491.3 | 4518.2 |
| 62.5° | 188.5  | 190.9  | 210.5  | 244.8  | 310.8  | 509.1  | 905.6  | 1436.7 | 2043.7 | 2352.1 | 2432.9 |
| 65°   | 154.2  | 154.2  | 166.4  | 183.6  | 186.0  | 195.8  | 235.0  | 335.3  | 487.1  | 553.1  | 560.5  |
| 67.5° | 117.5  | 117.5  | 127.3  | 137.1  | 142.0  | 139.5  | 134.6  | 139.5  | 168.9  | 161.5  | 156.6  |
| 70°   | 73.4   | 75.9   | 80.8   | 90.6   | 95.5   | 97.9   | 100.3  | 105.2  | 119.9  | 124.8  | 119.9  |
| 72.5° | 44.1   | 44.1   | 46.5   | 53.8   | 61.2   | 66.1   | 73.4   | 78.3   | 85.7   | 97.9   | 95.5   |
| 75°   | 19.6   | 19.6   | 24.5   | 31.8   | 39.2   | 46.5   | 53.8   | 61.2   | 66.1   | 73.4   | 75.9   |
| 77.5° | 4.9    | 7.3    | 12.2   | 22.0   | 29.4   | 39.2   | 49.0   | 56.3   | 61.2   | 61.2   | 58.7   |
| 80°   | 2.4    | 2.4    | 9.8    | 17.1   | 31.8   | 41.6   | 53.8   | 58.7   | 66.1   | 61.2   | 53.8   |
| 82.5° | 2.4    | 2.4    | 9.8    | 17.1   | 29.4   | 41.6   | 56.3   | 63.6   | 68.5   | 61.2   | 51.4   |
| 85°   | 0.0    | 2.4    | 7.3    | 14.7   | 24.5   | 29.4   | 24.5   | 17.1   | 9.8    | 9.8    | 7.3    |
| 87.5° | 0.0    | 0.0    | 2.4    | 2.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)