

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: STREETWORKS

Report Number: P531731

Luminaire Tested: **GLAN-SA7A-740-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531731  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7A-740-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19116 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

Input Watts (W): 215  
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



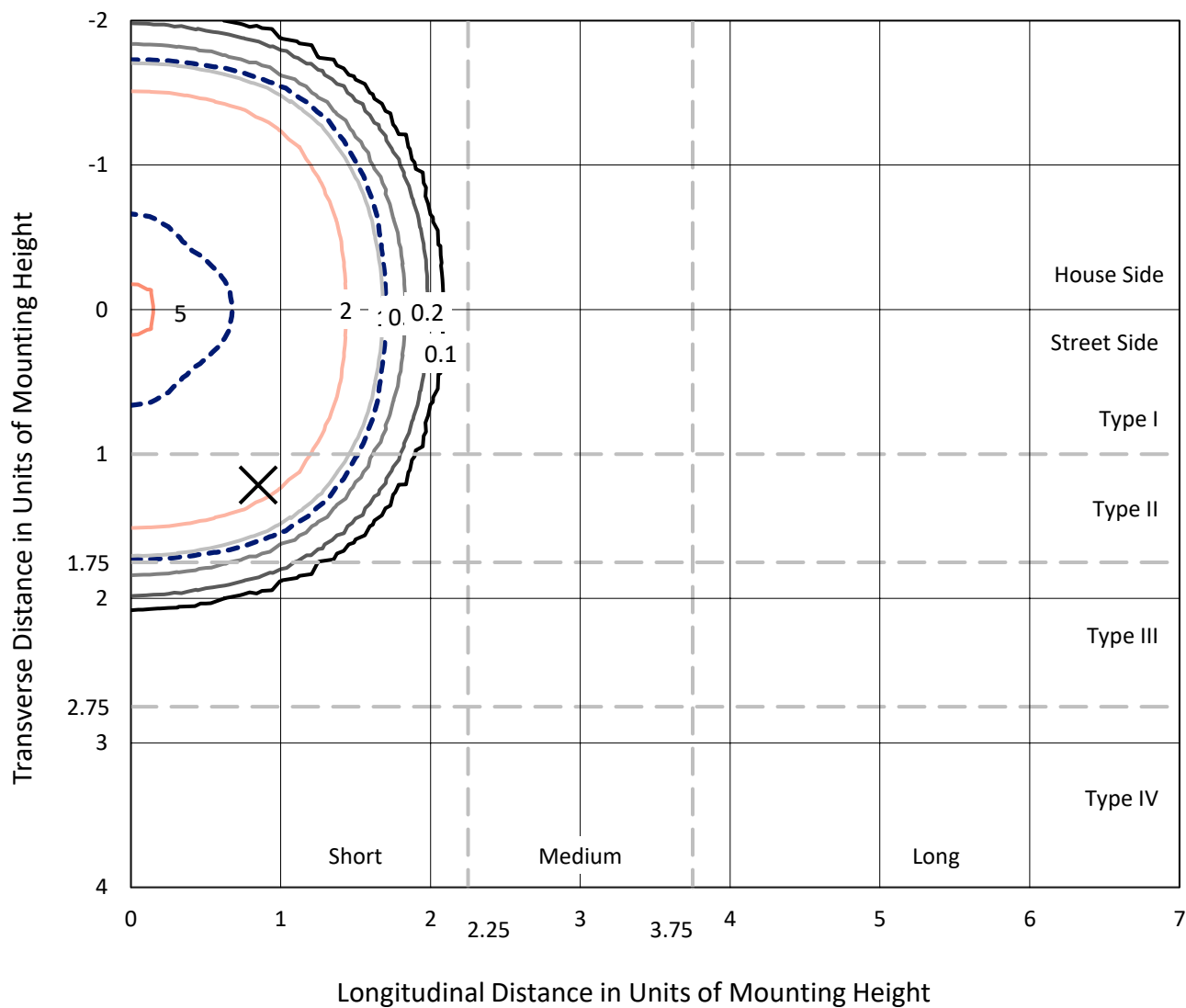
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

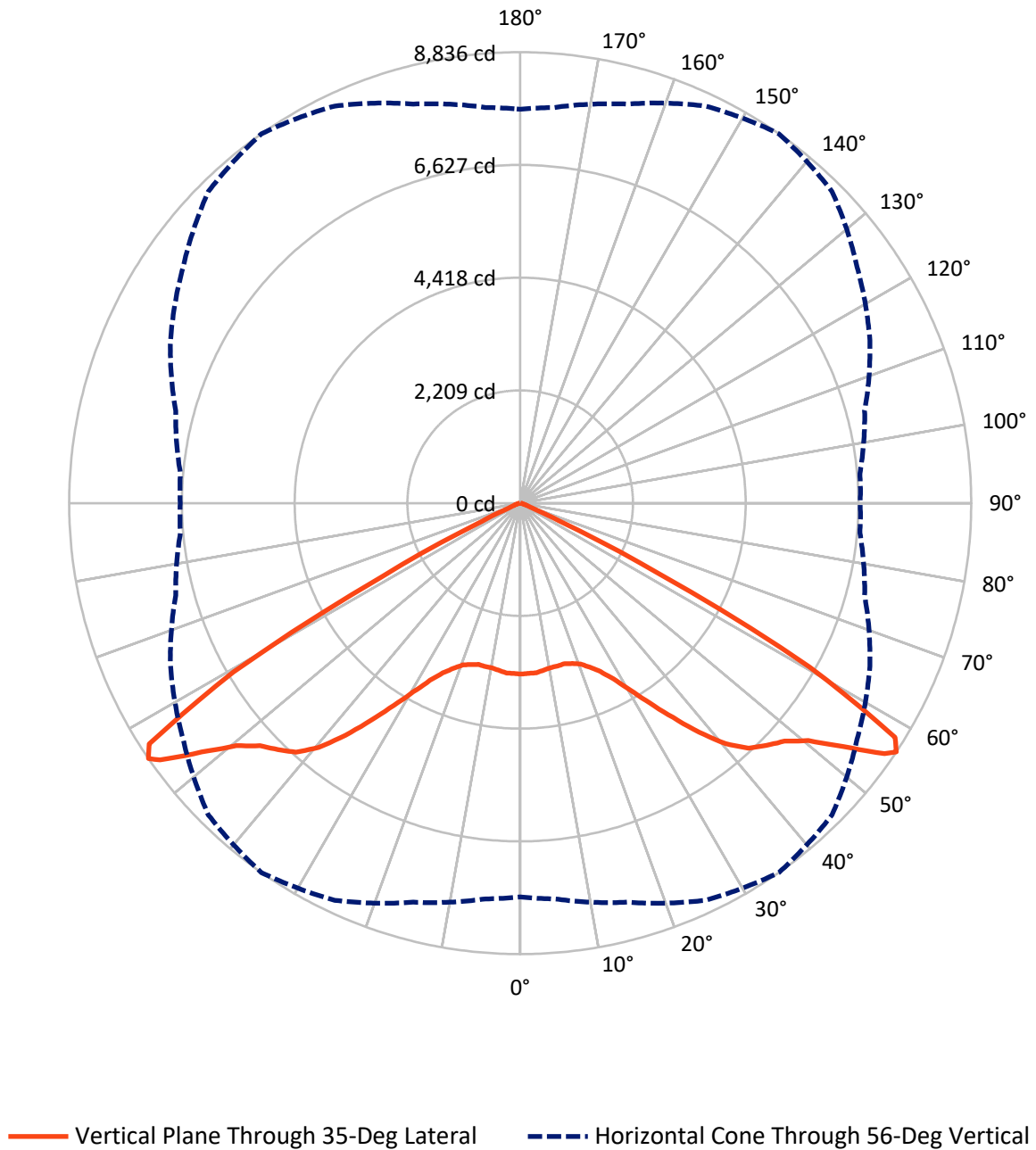


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9558.0   | 0.0    | 9558.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 9558.0   | 0.0    | 9558.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 19116.0  | 0.0    | 19116.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 314.8   | 1.6       |
| 10°-20°   | 919.1   | 4.8       |
| 20°-30°   | 1664.3  | 8.7       |
| 30°-40°   | 3086.3  | 16.1      |
| 40°-50°   | 5065.9  | 26.5      |
| 50°-60°   | 6526.3  | 34.1      |
| 60°-70°   | 1438.3  | 7.5       |
| 70°-80°   | 83.5    | 0.4       |
| 80°-90°   | 17.6    | 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°    | 19116.0 | 100.0     |
| 0°-180°   | 19116.0 | 100.0     |

**Coefficient of Utilization**



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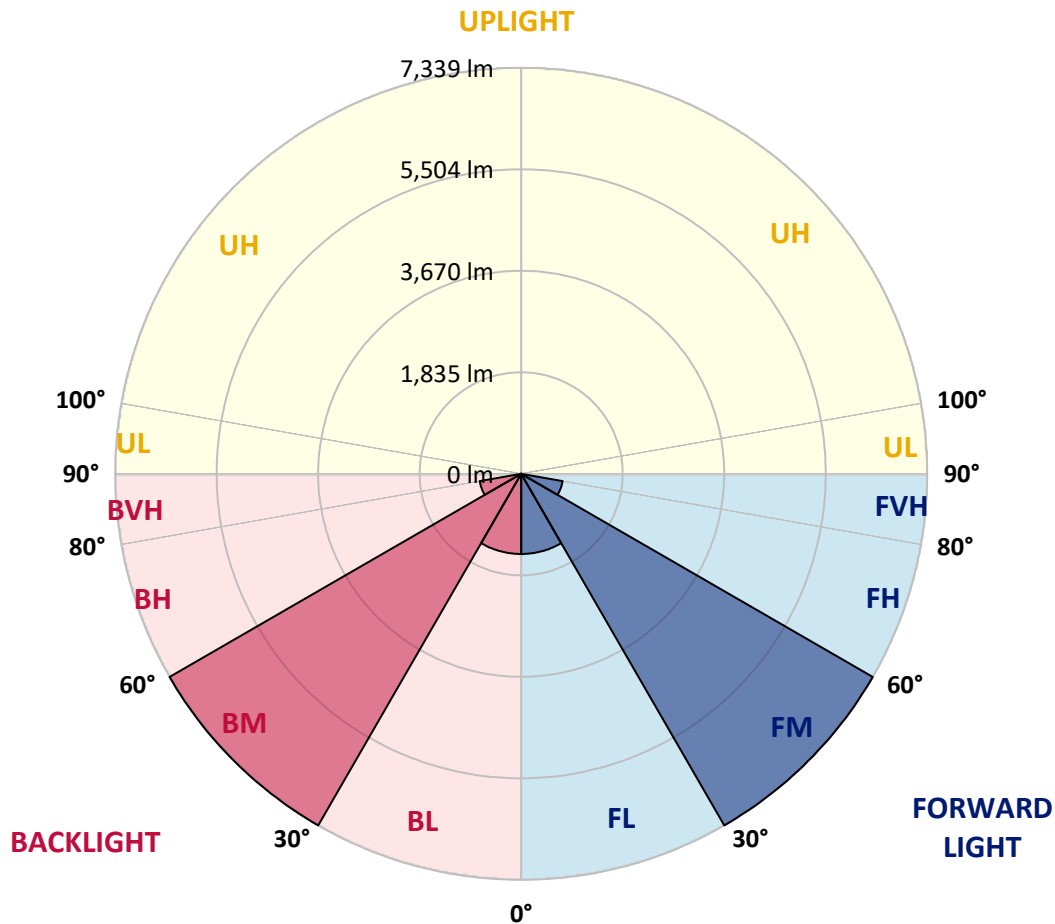
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1449.1 | 7.6       |                         |      |         |
| FM   | (30°-60°)   | 7339.2 | 38.4      |                         |      |         |
| FH   | (60°-80°)   | 760.9  | 4.0       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 8.8    | 0.0       |                         |      | G0/10   |
| BL   | (0°-30°)    | 1449.1 | 7.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 7339.2 | 38.4      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 760.9  | 4.0       | B2/1000                 |      | G1/1800 |
| BVH  | (80°-90°)   | 8.8    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G1**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3349.5 | 3349.5 | 3349.5 | 3349.5 | 3349.5 | 3349.5 | 3349.5 | 3349.5 | 3349.5 | 3349.5 | 3349.5 |
| 2.5°  | 3356.5 | 3356.5 | 3359.9 | 3363.4 | 3339.1 | 3328.8 | 3332.2 | 3325.3 | 3321.8 | 3332.2 | 3332.2 |
| 5°    | 3346.1 | 3346.1 | 3335.7 | 3339.1 | 3339.1 | 3308.0 | 3308.0 | 3314.9 | 3314.9 | 3294.1 | 3287.2 |
| 7.5°  | 3318.4 | 3311.4 | 3297.6 | 3314.9 | 3304.5 | 3304.5 | 3280.3 | 3262.9 | 3256.0 | 3269.9 | 3256.0 |
| 10°   | 3259.5 | 3262.9 | 3276.8 | 3283.7 | 3276.8 | 3297.6 | 3256.0 | 3231.8 | 3207.5 | 3197.1 | 3197.1 |
| 12.5° | 3231.8 | 3252.5 | 3231.8 | 3249.1 | 3273.3 | 3256.0 | 3231.8 | 3214.4 | 3179.8 | 3166.0 | 3166.0 |
| 15°   | 3228.3 | 3242.2 | 3249.1 | 3273.3 | 3262.9 | 3269.9 | 3221.4 | 3200.6 | 3148.6 | 3124.4 | 3114.0 |
| 17.5° | 3224.8 | 3242.2 | 3252.5 | 3297.6 | 3304.5 | 3308.0 | 3269.9 | 3207.5 | 3162.5 | 3138.2 | 3114.0 |
| 20°   | 3262.9 | 3269.9 | 3290.6 | 3335.7 | 3363.4 | 3411.9 | 3342.6 | 3276.8 | 3179.8 | 3152.1 | 3141.7 |
| 22.5° | 3311.4 | 3346.1 | 3366.9 | 3415.3 | 3488.1 | 3529.7 | 3439.6 | 3356.5 | 3256.0 | 3221.4 | 3179.8 |
| 25°   | 3467.3 | 3460.4 | 3495.0 | 3595.5 | 3654.4 | 3685.5 | 3612.8 | 3491.6 | 3359.9 | 3318.4 | 3325.3 |
| 27.5° | 3661.3 | 3668.2 | 3699.4 | 3810.2 | 3896.8 | 3945.3 | 3858.7 | 3699.4 | 3571.2 | 3501.9 | 3495.0 |
| 30°   | 3914.1 | 3907.2 | 3941.9 | 4090.8 | 4246.7 | 4319.4 | 4167.0 | 3980.0 | 3855.3 | 3765.2 | 3786.0 |
| 32.5° | 4180.9 | 4184.3 | 4281.3 | 4416.4 | 4669.3 | 4811.3 | 4565.3 | 4336.7 | 4149.7 | 4087.3 | 4056.2 |
| 35°   | 4575.7 | 4593.1 | 4669.3 | 4877.1 | 5157.7 | 5341.2 | 5071.1 | 4797.4 | 4582.7 | 4468.4 | 4482.2 |
| 37.5° | 5064.1 | 5046.8 | 5175.0 | 5400.1 | 5694.6 | 5829.6 | 5601.0 | 5289.3 | 5071.1 | 4994.9 | 5043.4 |
| 40°   | 5583.7 | 5601.0 | 5666.8 | 5871.2 | 6200.3 | 6290.3 | 5950.9 | 5781.2 | 5590.6 | 5552.5 | 5611.4 |
| 42.5° | 6103.3 | 6092.9 | 6141.4 | 6325.0 | 6564.0 | 6501.6 | 6300.7 | 6200.3 | 6065.2 | 5989.0 | 6068.6 |
| 45°   | 6484.3 | 6467.0 | 6557.1 | 6681.7 | 6768.3 | 6650.6 | 6560.5 | 6525.9 | 6456.6 | 6373.5 | 6446.2 |
| 47.5° | 6854.9 | 6841.1 | 6927.7 | 6962.3 | 6969.2 | 6813.4 | 6830.7 | 6893.0 | 6719.9 | 6546.7 | 6629.8 |
| 50°   | 7170.2 | 7145.9 | 7253.3 | 7329.5 | 7312.2 | 7062.8 | 7125.1 | 7062.8 | 6792.6 | 6588.2 | 6557.1 |
| 52.5° | 7696.7 | 7707.0 | 7821.4 | 7959.9 | 7918.3 | 7710.5 | 7620.5 | 7336.4 | 6990.0 | 6806.4 | 6699.1 |
| 55°   | 8029.2 | 7977.2 | 8174.7 | 8614.6 | 8663.1 | 8448.3 | 8050.0 | 7630.8 | 7111.3 | 6886.1 | 6858.4 |
| 56°   | 7717.4 | 7783.3 | 8095.0 | 8586.9 | 8836.3 | 8638.8 | 8060.4 | 7558.1 | 6986.6 | 6681.7 | 6661.0 |
| 57.5° | 6924.2 | 6889.6 | 7312.2 | 7984.2 | 8663.1 | 8579.9 | 7776.3 | 7038.5 | 6373.5 | 6030.5 | 5989.0 |
| 60°   | 4309.0 | 4409.5 | 4780.1 | 5611.4 | 6518.9 | 6560.5 | 5763.8 | 5129.9 | 4354.0 | 4049.2 | 4122.0 |
| 62.5° | 1686.9 | 1600.3 | 1832.4 | 2452.4 | 3075.9 | 3214.4 | 2913.1 | 2421.2 | 1988.2 | 1686.9 | 1666.1 |
| 65°   | 391.4  | 381.0  | 429.5  | 592.3  | 827.9  | 959.5  | 911.0  | 654.7  | 481.5  | 457.2  | 422.6  |
| 67.5° | 221.7  | 221.7  | 211.3  | 211.3  | 232.1  | 245.9  | 235.5  | 232.1  | 242.5  | 252.9  | 249.4  |
| 70°   | 155.9  | 152.4  | 145.5  | 148.9  | 142.0  | 142.0  | 152.4  | 169.7  | 183.6  | 183.6  | 187.0  |
| 72.5° | 93.5   | 93.5   | 93.5   | 103.9  | 103.9  | 103.9  | 114.3  | 128.2  | 131.6  | 128.2  | 124.7  |
| 75°   | 41.6   | 41.6   | 48.5   | 58.9   | 65.8   | 69.3   | 79.7   | 86.6   | 93.5   | 86.6   | 79.7   |
| 77.5° | 10.4   | 10.4   | 17.3   | 24.2   | 31.2   | 38.1   | 52.0   | 62.3   | 65.8   | 62.3   | 52.0   |
| 80°   | 3.5    | 3.5    | 6.9    | 17.3   | 31.2   | 38.1   | 52.0   | 55.4   | 58.9   | 52.0   | 41.6   |
| 82.5° | 3.5    | 3.5    | 6.9    | 17.3   | 24.2   | 31.2   | 41.6   | 48.5   | 52.0   | 45.0   | 41.6   |
| 85°   | 0.0    | 3.5    | 6.9    | 13.9   | 20.8   | 27.7   | 27.7   | 20.8   | 17.3   | 10.4   | 13.9   |
| 87.5° | 0.0    | 0.0    | 3.5    | 3.5    | 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)