

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: P534203

Luminaire Tested: **GLAN-SA9D-722-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534203  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9D-722-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35416 lumens  
Efficiency: N/A  
Efficacy: 64.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

Input Watts (W): 552  
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



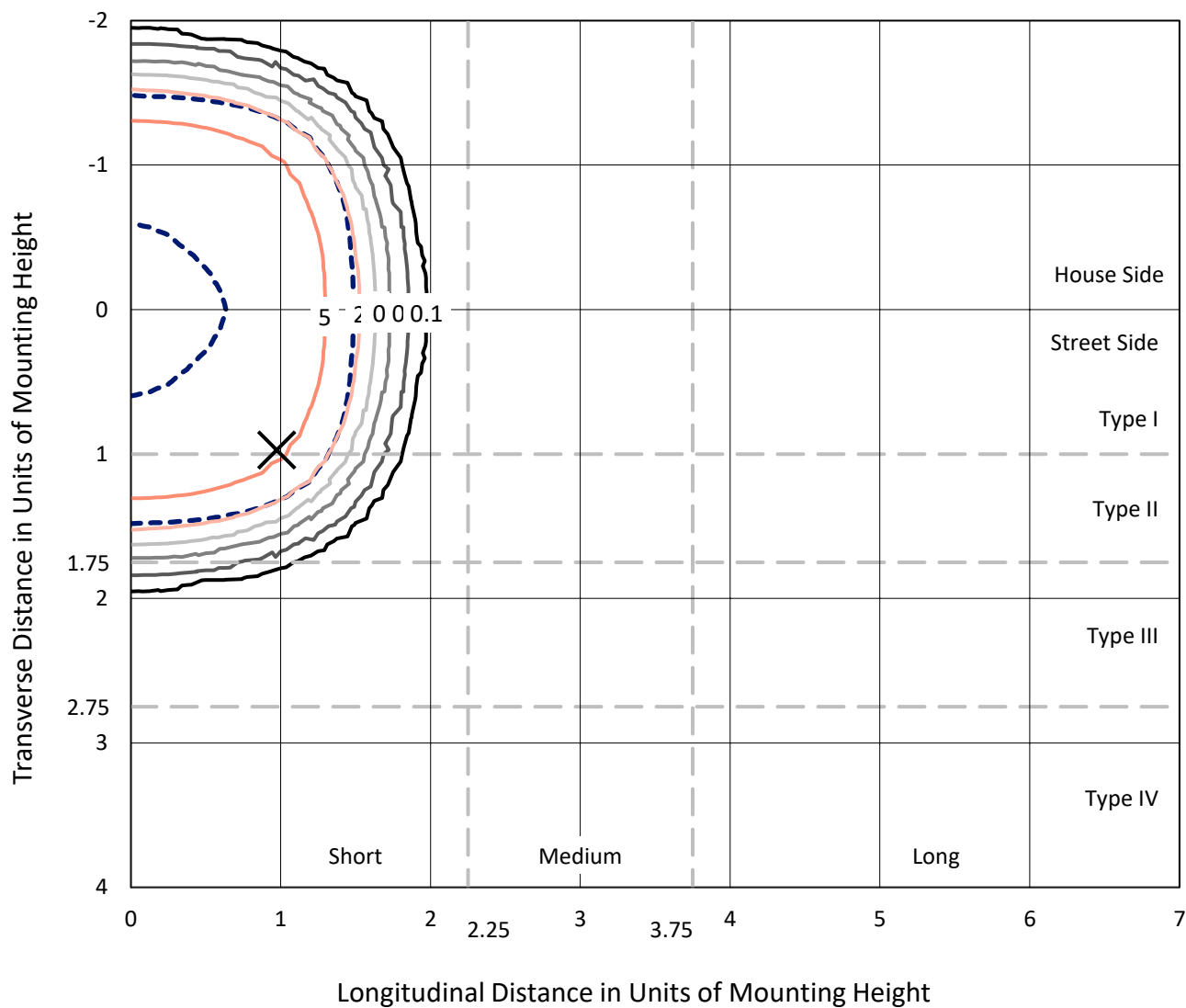
REPORT NUMBER: P534203

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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

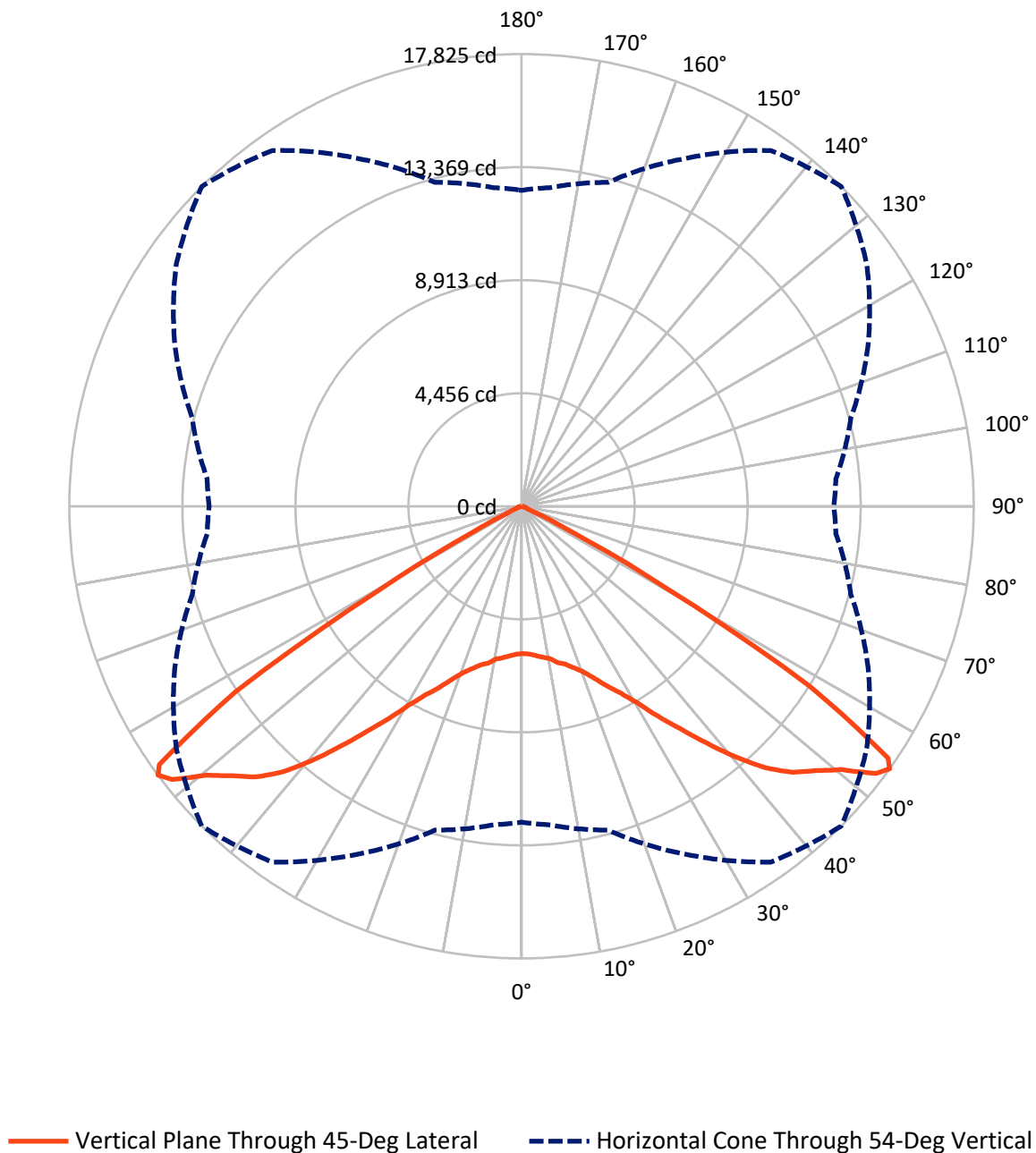


Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
 Type V - Short - N/A

REPORT NUMBER: P534203

CATALOG NUMBER: GLAN-SA9D-722-U-5NQ-GRSBK

## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 17708.0  | 0.0    | 17708.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 17708.0  | 0.0    | 17708.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 35416.0  | 0.0    | 35416.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 568.4   | 1.6       |
| 10°-20°   | 1840.6  | 5.2       |
| 20°-30°   | 3607.5  | 10.2      |
| 30°-40°   | 6487.1  | 18.3      |
| 40°-50°   | 11104.6 | 31.4      |
| 50°-60°   | 10744.8 | 30.3      |
| 60°-70°   | 919.8   | 2.6       |
| 70°-80°   | 109.0   | 0.3       |
| 80°-90°   | 34.2    | 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°    | 35416.0 | 100.0     |
| 0°-180°   | 35416.0 | 100.0     |

**Coefficient of Utilization**



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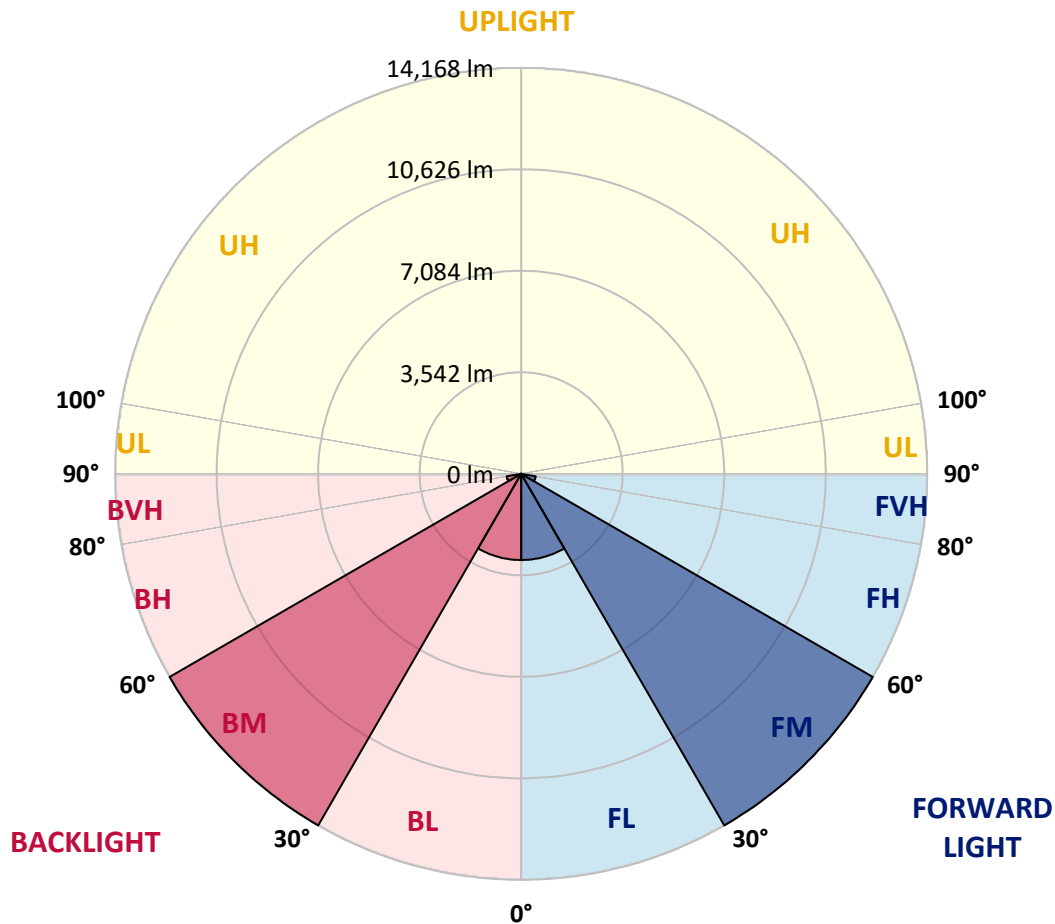
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 3008.3  | 8.5       |                         |      |        |
| FM   | (30°-60°)   | 14168.2 | 40.0      |                         |      |        |
| FH   | (60°-80°)   | 514.4   | 1.5       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 17.1    | 0.0       |                         |      | G1/100 |
| BL   | (0°-30°)    | 3008.3  | 8.5       | B4/5000                 |      |        |
| BM   | (30°-60°)   | 14168.2 | 40.0      | B5                      |      |        |
| BH   | (60°-80°)   | 514.4   | 1.5       | B2/1000                 |      | G0/660 |
| BVH  | (80°-90°)   | 17.1    | 0.0       |                         |      | G1/100 |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |        |

**BUG Rating: B5-U0-G1**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5807.1  | 5807.1  | 5807.1  | 5807.1  | 5807.1  | 5807.1  | 5807.1  | 5807.1  | 5807.1  | 5807.1  | 5807.1  |
| 2.5°  | 5835.2  | 5868.8  | 5846.4  | 5863.2  | 5863.2  | 5835.2  | 5852.0  | 5784.7  | 5829.6  | 5795.9  | 5801.5  |
| 5°    | 5924.9  | 5919.3  | 5919.3  | 5924.9  | 5902.5  | 5913.7  | 5891.3  | 5868.8  | 5852.0  | 5829.6  | 5896.9  |
| 7.5°  | 6037.2  | 6037.2  | 5997.9  | 6009.1  | 5997.9  | 6014.7  | 5969.8  | 5924.9  | 5908.1  | 5891.3  | 5880.1  |
| 10°   | 6143.8  | 6132.5  | 6115.7  | 6166.2  | 6126.9  | 6104.5  | 6082.0  | 6054.0  | 5992.3  | 5969.8  | 5947.4  |
| 12.5° | 6300.9  | 6295.3  | 6272.8  | 6323.3  | 6300.9  | 6323.3  | 6239.1  | 6166.2  | 6155.0  | 6082.0  | 6121.3  |
| 15°   | 6486.0  | 6536.5  | 6497.2  | 6497.2  | 6486.0  | 6458.0  | 6424.3  | 6390.6  | 6289.6  | 6261.6  | 6267.2  |
| 17.5° | 6727.3  | 6710.5  | 6716.1  | 6716.1  | 6772.2  | 6699.2  | 6631.9  | 6547.7  | 6497.2  | 6480.4  | 6424.3  |
| 20°   | 6957.3  | 6979.8  | 6974.2  | 7013.4  | 7047.1  | 6968.5  | 6895.6  | 6884.4  | 6744.1  | 6766.6  | 6688.0  |
| 22.5° | 7361.3  | 7344.5  | 7372.5  | 7400.6  | 7378.1  | 7366.9  | 7299.6  | 7215.4  | 7092.0  | 7035.9  | 7024.7  |
| 25°   | 7787.7  | 7759.7  | 7709.2  | 7776.5  | 7810.2  | 7860.7  | 7731.6  | 7686.7  | 7496.0  | 7411.8  | 7417.4  |
| 27.5° | 8152.4  | 8191.7  | 8247.8  | 8275.8  | 8360.0  | 8343.2  | 8253.4  | 8107.5  | 7961.6  | 7866.3  | 7804.5  |
| 30°   | 8651.8  | 8674.2  | 8769.6  | 8808.9  | 8954.7  | 8994.0  | 8853.8  | 8685.4  | 8427.3  | 8303.9  | 8231.0  |
| 32.5° | 9111.8  | 9268.9  | 9263.3  | 9459.7  | 9695.4  | 9858.1  | 9605.6  | 9347.5  | 9089.4  | 8943.5  | 8814.5  |
| 35°   | 9858.1  | 9830.0  | 9992.7  | 10200.3 | 10581.9 | 10767.0 | 10492.1 | 10194.7 | 9802.0  | 9566.3  | 9465.3  |
| 37.5° | 10553.8 | 10565.0 | 10783.9 | 11114.9 | 11552.5 | 11838.7 | 11597.4 | 11109.3 | 10705.3 | 10402.3 | 10262.1 |
| 40°   | 11563.7 | 11586.2 | 11810.6 | 12186.5 | 12680.3 | 12988.9 | 12708.3 | 12214.6 | 11676.0 | 11440.3 | 11440.3 |
| 42.5° | 12747.6 | 12843.0 | 12988.9 | 13314.3 | 13757.5 | 14099.8 | 13847.3 | 13460.2 | 12915.9 | 12613.0 | 12657.8 |
| 45°   | 13965.1 | 14010.0 | 14105.4 | 14587.9 | 14795.5 | 14963.9 | 14728.2 | 14548.7 | 14184.0 | 13813.7 | 13751.9 |
| 47.5° | 15104.1 | 15121.0 | 15401.5 | 15553.0 | 15715.7 | 15575.4 | 15726.9 | 15491.3 | 15081.7 | 14722.6 | 14649.7 |
| 50°   | 15609.1 | 15581.0 | 15979.4 | 16439.5 | 16562.9 | 16316.0 | 16187.0 | 16029.9 | 15407.1 | 14975.1 | 14784.3 |
| 52.5° | 14139.1 | 14301.8 | 15042.4 | 16321.7 | 17286.7 | 17494.3 | 16742.5 | 16018.7 | 14857.3 | 14015.6 | 13886.6 |
| 54°   | 12455.9 | 12607.3 | 13218.9 | 15115.3 | 17124.0 | 17825.3 | 16613.4 | 15076.1 | 13437.7 | 12439.0 | 12310.0 |
| 55°   | 10789.5 | 10621.1 | 11732.1 | 13667.8 | 16360.9 | 17533.6 | 16102.8 | 13858.5 | 11984.6 | 11070.0 | 10890.5 |
| 57.5° | 5840.8  | 5868.8  | 6805.8  | 8634.9  | 11496.4 | 13443.3 | 11872.3 | 9375.6  | 7080.8  | 6054.0  | 5964.2  |
| 60°   | 1851.5  | 1896.4  | 2306.0  | 3489.9  | 5492.9  | 6559.0  | 5622.0  | 3764.8  | 2603.4  | 2087.2  | 2003.0  |
| 62.5° | 577.9   | 600.3   | 656.5   | 976.3   | 1503.7  | 2148.9  | 1683.2  | 1009.9  | 751.8   | 690.1   | 701.3   |
| 65°   | 353.5   | 353.5   | 359.1   | 381.5   | 448.9   | 521.8   | 505.0   | 443.2   | 426.4   | 415.2   | 409.6   |
| 67.5° | 230.0   | 224.4   | 235.7   | 252.5   | 263.7   | 269.3   | 286.1   | 303.0   | 297.4   | 286.1   | 286.1   |
| 70°   | 140.3   | 134.7   | 145.9   | 168.3   | 173.9   | 185.2   | 202.0   | 224.4   | 218.8   | 207.6   | 213.2   |
| 72.5° | 78.6    | 78.6    | 84.2    | 101.0   | 117.8   | 129.0   | 145.9   | 162.7   | 168.3   | 162.7   | 162.7   |
| 75°   | 28.1    | 33.7    | 44.9    | 61.7    | 72.9    | 89.8    | 106.6   | 123.4   | 140.3   | 129.0   | 123.4   |
| 77.5° | 11.2    | 11.2    | 22.4    | 39.3    | 56.1    | 72.9    | 101.0   | 117.8   | 129.0   | 117.8   | 106.6   |
| 80°   | 5.6     | 5.6     | 16.8    | 33.7    | 50.5    | 67.3    | 84.2    | 101.0   | 106.6   | 95.4    | 84.2    |
| 82.5° | 5.6     | 5.6     | 16.8    | 33.7    | 50.5    | 61.7    | 89.8    | 101.0   | 112.2   | 101.0   | 84.2    |
| 85°   | 0.0     | 5.6     | 16.8    | 33.7    | 44.9    | 50.5    | 50.5    | 33.7    | 28.1    | 16.8    | 16.8    |
| 87.5° | 0.0     | 0.0     | 5.6     | 0.0     | 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)