

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: P531861

Luminaire Tested: **GALN-SA7B-722-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531861
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: McGRAW-EDISON
Catalog Number: GALN-SA7B-722-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2200K, 800mA 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: 17485 lumens
Efficiency: N/A
Efficacy: 61.1 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

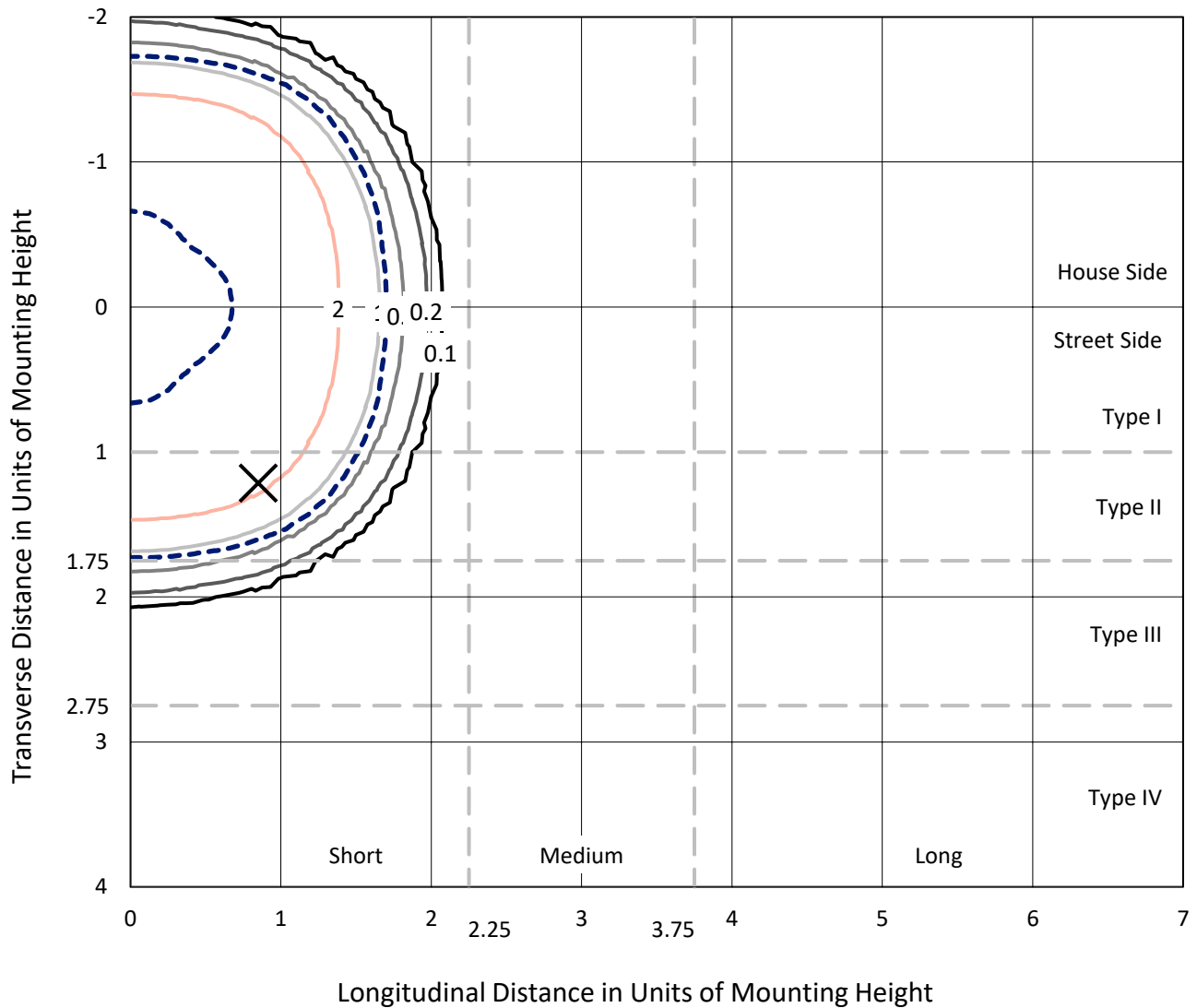
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

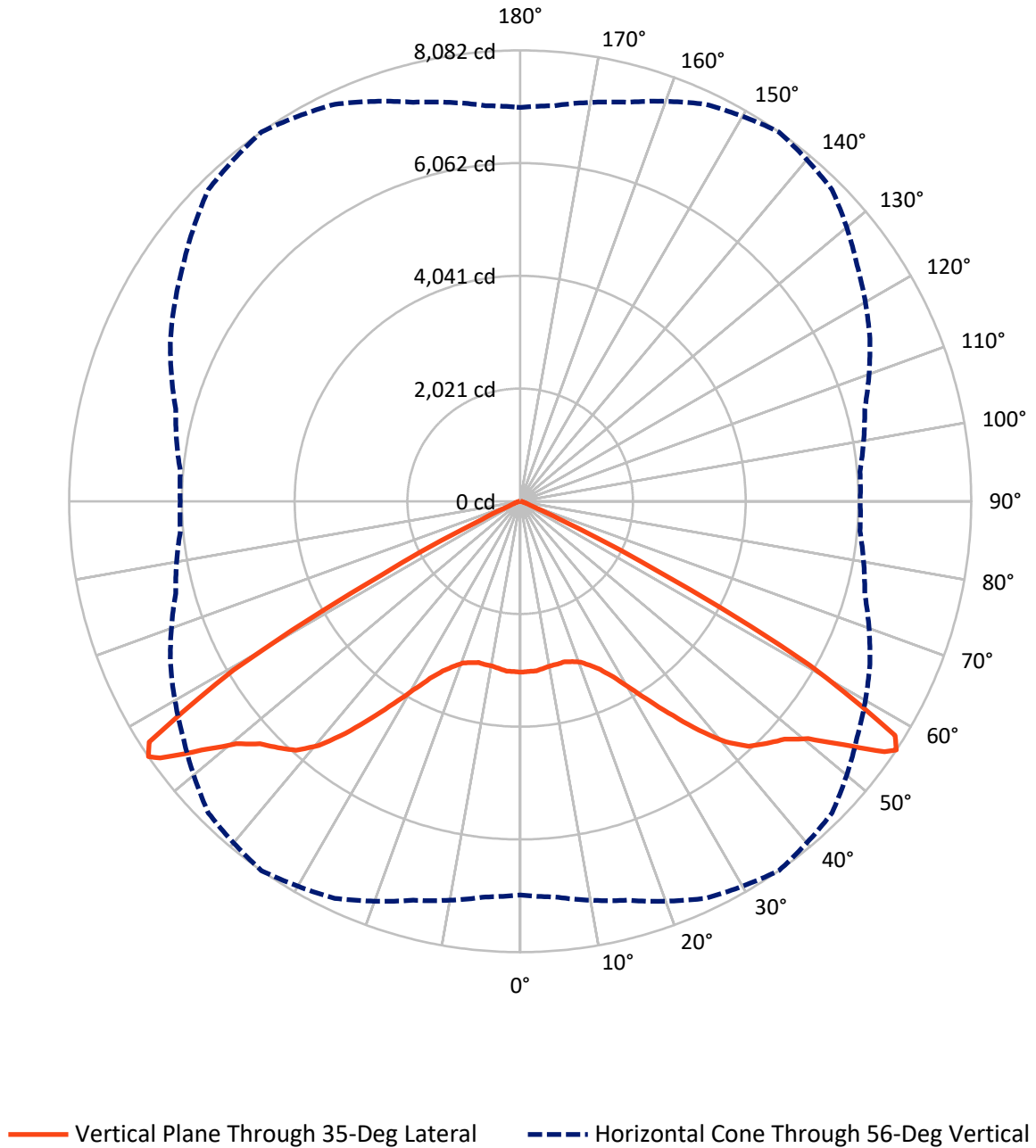
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8742.5 | 0.0 | 8742.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8742.5 | 0.0 | 8742.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 17485.0 | 0.0 | 17485.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 287.9 | 1.6 |
| 10°-20° | 840.7 | 4.8 |
| 20°-30° | 1522.3 | 8.7 |
| 30°-40° | 2822.9 | 16.1 |
| 40°-50° | 4633.6 | 26.5 |
| 50°-60° | 5969.5 | 34.1 |
| 60°-70° | 1315.6 | 7.5 |
| 70°-80° | 76.3 | 0.4 |
| 80°-90° | 16.1 | 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° | 17485.0 | 100.0 |
| 0°-180° | 17485.0 | 100.0 |

Coefficient of Utilization



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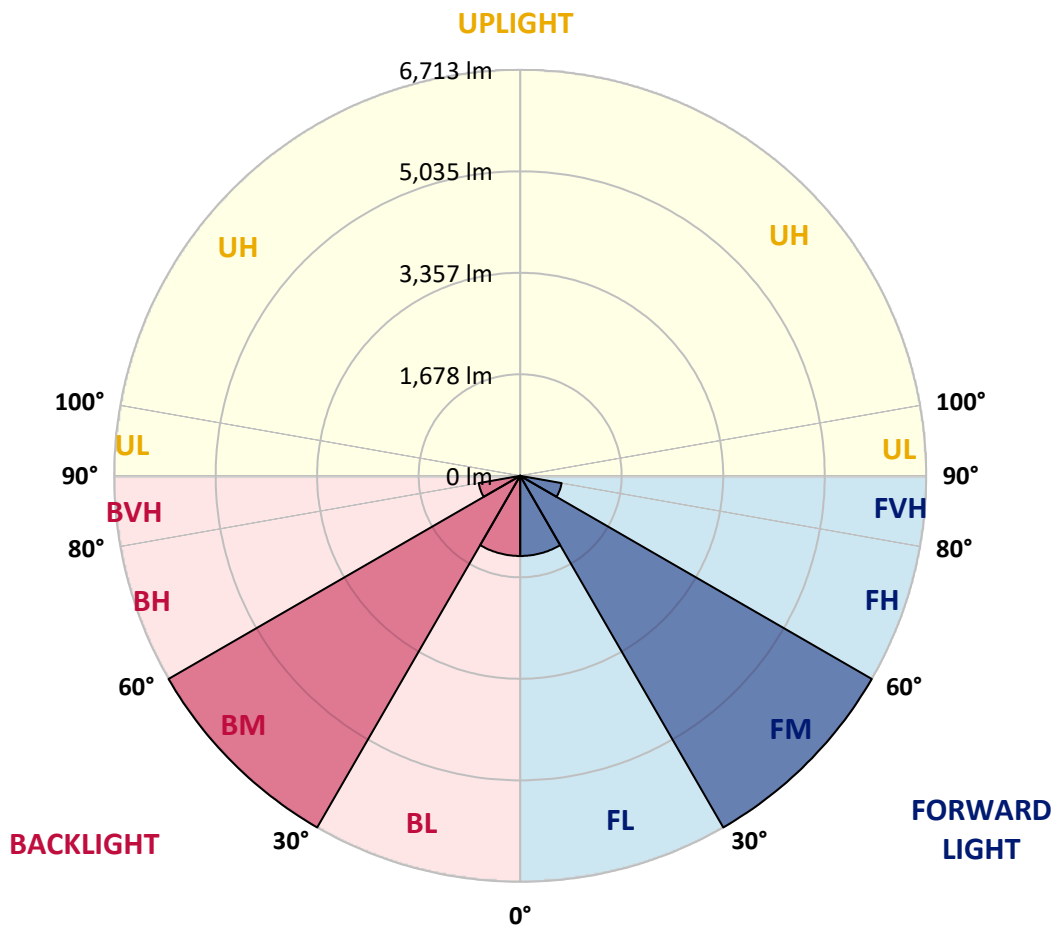
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1325.5 | 7.6 | | | |
| FM (30°-60°) | 6713.0 | 38.4 | | | |
| FH (60°-80°) | 696.0 | 4.0 | | | G1/1800 |
| FVH (80°-90°) | 8.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1325.5 | 7.6 | B3/2500 | | |
| BM (30°-60°) | 6713.0 | 38.4 | B4/8500 | | |
| BH (60°-80°) | 696.0 | 4.0 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 8.0 | 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° | 3063.7 | 3063.7 | 3063.7 | 3063.7 | 3063.7 | 3063.7 | 3063.7 | 3063.7 | 3063.7 | 3063.7 | 3063.7 |
| 2.5° | 3070.1 | 3070.1 | 3073.3 | 3076.4 | 3054.2 | 3044.7 | 3047.9 | 3041.6 | 3038.4 | 3047.9 | 3047.9 |
| 5° | 3060.6 | 3060.6 | 3051.1 | 3054.2 | 3054.2 | 3025.7 | 3025.7 | 3032.1 | 3032.1 | 3013.1 | 3006.7 |
| 7.5° | 3035.2 | 3028.9 | 3016.2 | 3032.1 | 3022.6 | 3022.6 | 3000.4 | 2984.5 | 2978.2 | 2990.9 | 2978.2 |
| 10° | 2981.4 | 2984.5 | 2997.2 | 3003.6 | 2997.2 | 3016.2 | 2978.2 | 2956.0 | 2933.8 | 2924.3 | 2924.3 |
| 12.5° | 2956.0 | 2975.0 | 2956.0 | 2971.9 | 2994.0 | 2978.2 | 2956.0 | 2940.2 | 2908.5 | 2895.8 | 2895.8 |
| 15° | 2952.9 | 2965.5 | 2971.9 | 2994.0 | 2984.5 | 2990.9 | 2946.5 | 2927.5 | 2880.0 | 2857.8 | 2848.3 |
| 17.5° | 2949.7 | 2965.5 | 2975.0 | 3016.2 | 3022.6 | 3025.7 | 2990.9 | 2933.8 | 2892.7 | 2870.5 | 2848.3 |
| 20° | 2984.5 | 2990.9 | 3009.9 | 3051.1 | 3076.4 | 3120.8 | 3057.4 | 2997.2 | 2908.5 | 2883.2 | 2873.6 |
| 22.5° | 3028.9 | 3060.6 | 3079.6 | 3123.9 | 3190.5 | 3228.5 | 3146.1 | 3070.1 | 2978.2 | 2946.5 | 2908.5 |
| 25° | 3171.5 | 3165.1 | 3196.8 | 3288.7 | 3342.6 | 3371.1 | 3304.5 | 3193.6 | 3073.3 | 3035.2 | 3041.6 |
| 27.5° | 3348.9 | 3355.2 | 3383.7 | 3485.1 | 3564.3 | 3608.7 | 3529.5 | 3383.7 | 3266.5 | 3203.2 | 3196.8 |
| 30° | 3580.2 | 3573.8 | 3605.5 | 3741.8 | 3884.3 | 3950.9 | 3811.5 | 3640.4 | 3526.3 | 3443.9 | 3463.0 |
| 32.5° | 3824.1 | 3827.3 | 3916.0 | 4039.6 | 4270.9 | 4400.8 | 4175.8 | 3966.7 | 3795.6 | 3738.6 | 3710.1 |
| 35° | 4185.3 | 4201.2 | 4270.9 | 4461.0 | 4717.6 | 4885.5 | 4638.4 | 4388.1 | 4191.7 | 4087.1 | 4099.8 |
| 37.5° | 4632.1 | 4616.2 | 4733.4 | 4939.4 | 5208.7 | 5332.3 | 5123.1 | 4838.0 | 4638.4 | 4568.7 | 4613.0 |
| 40° | 5107.3 | 5123.1 | 5183.3 | 5370.3 | 5671.3 | 5753.6 | 5443.1 | 5287.9 | 5113.6 | 5078.8 | 5132.6 |
| 42.5° | 5582.5 | 5573.0 | 5617.4 | 5785.3 | 6003.9 | 5946.9 | 5763.1 | 5671.3 | 5547.7 | 5478.0 | 5550.9 |
| 45° | 5931.1 | 5915.2 | 5997.6 | 6111.7 | 6190.9 | 6083.1 | 6000.8 | 5969.1 | 5905.7 | 5829.7 | 5896.2 |
| 47.5° | 6270.1 | 6257.4 | 6336.6 | 6368.3 | 6374.6 | 6232.1 | 6247.9 | 6304.9 | 6146.5 | 5988.1 | 6064.1 |
| 50° | 6558.4 | 6536.2 | 6634.4 | 6704.1 | 6688.3 | 6460.2 | 6517.2 | 6460.2 | 6213.0 | 6026.1 | 5997.6 |
| 52.5° | 7040.0 | 7049.5 | 7154.0 | 7280.8 | 7242.7 | 7052.6 | 6970.3 | 6710.5 | 6393.6 | 6225.7 | 6127.5 |
| 55° | 7344.1 | 7296.6 | 7477.2 | 7879.6 | 7923.9 | 7727.5 | 7363.1 | 6979.8 | 6504.5 | 6298.6 | 6273.2 |
| 56° | 7059.0 | 7119.2 | 7404.3 | 7854.2 | 8082.3 | 7901.7 | 7372.6 | 6913.2 | 6390.5 | 6111.7 | 6092.6 |
| 57.5° | 6333.4 | 6301.8 | 6688.3 | 7302.9 | 7923.9 | 7847.9 | 7112.8 | 6438.0 | 5829.7 | 5516.0 | 5478.0 |
| 60° | 3941.4 | 4033.2 | 4372.3 | 5132.6 | 5962.7 | 6000.8 | 5272.1 | 4692.3 | 3982.6 | 3703.7 | 3770.3 |
| 62.5° | 1543.0 | 1463.8 | 1676.0 | 2243.2 | 2813.5 | 2940.2 | 2664.5 | 2214.6 | 1818.6 | 1543.0 | 1524.0 |
| 65° | 358.0 | 348.5 | 392.9 | 541.8 | 757.2 | 877.6 | 833.3 | 598.8 | 440.4 | 418.2 | 386.5 |
| 67.5° | 202.8 | 202.8 | 193.3 | 193.3 | 212.3 | 224.9 | 215.4 | 212.3 | 221.8 | 231.3 | 228.1 |
| 70° | 142.6 | 139.4 | 133.1 | 136.2 | 129.9 | 129.9 | 139.4 | 155.2 | 167.9 | 167.9 | 171.1 |
| 72.5° | 85.5 | 85.5 | 85.5 | 95.0 | 95.0 | 95.0 | 104.6 | 117.2 | 120.4 | 117.2 | 114.1 |
| 75° | 38.0 | 38.0 | 44.4 | 53.9 | 60.2 | 63.4 | 72.9 | 79.2 | 85.5 | 79.2 | 72.9 |
| 77.5° | 9.5 | 9.5 | 15.8 | 22.2 | 28.5 | 34.9 | 47.5 | 57.0 | 60.2 | 57.0 | 47.5 |
| 80° | 3.2 | 3.2 | 6.3 | 15.8 | 28.5 | 34.9 | 47.5 | 50.7 | 53.9 | 47.5 | 38.0 |
| 82.5° | 3.2 | 3.2 | 6.3 | 15.8 | 22.2 | 28.5 | 38.0 | 44.4 | 47.5 | 41.2 | 38.0 |
| 85° | 0.0 | 3.2 | 6.3 | 12.7 | 19.0 | 25.3 | 25.3 | 19.0 | 15.8 | 9.5 | 12.7 |
| 87.5° | 0.0 | 0.0 | 3.2 | 3.2 | 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)