

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: P529106

Luminaire Tested: **GALN-SA4B-730-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-730-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18095 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

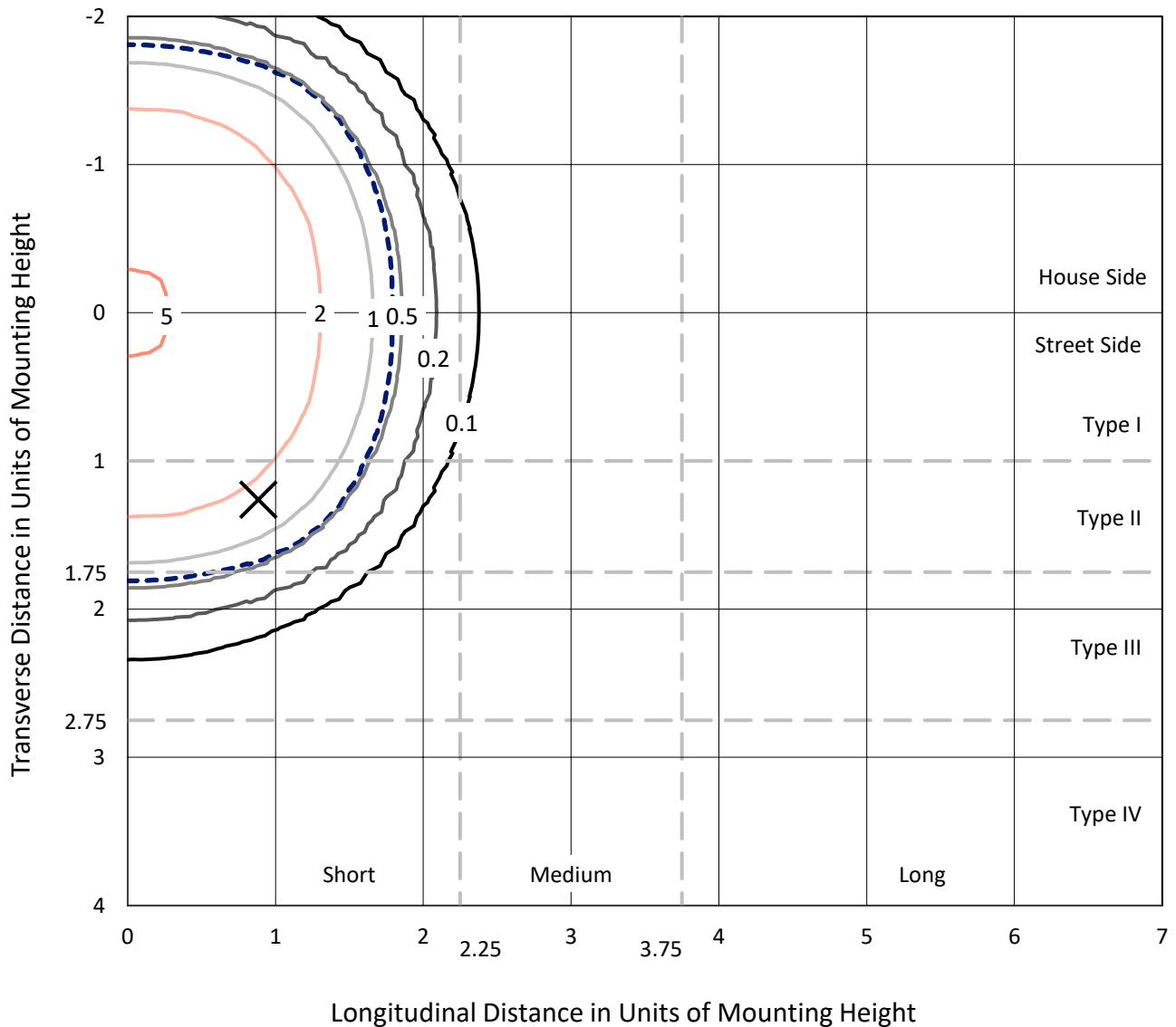
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

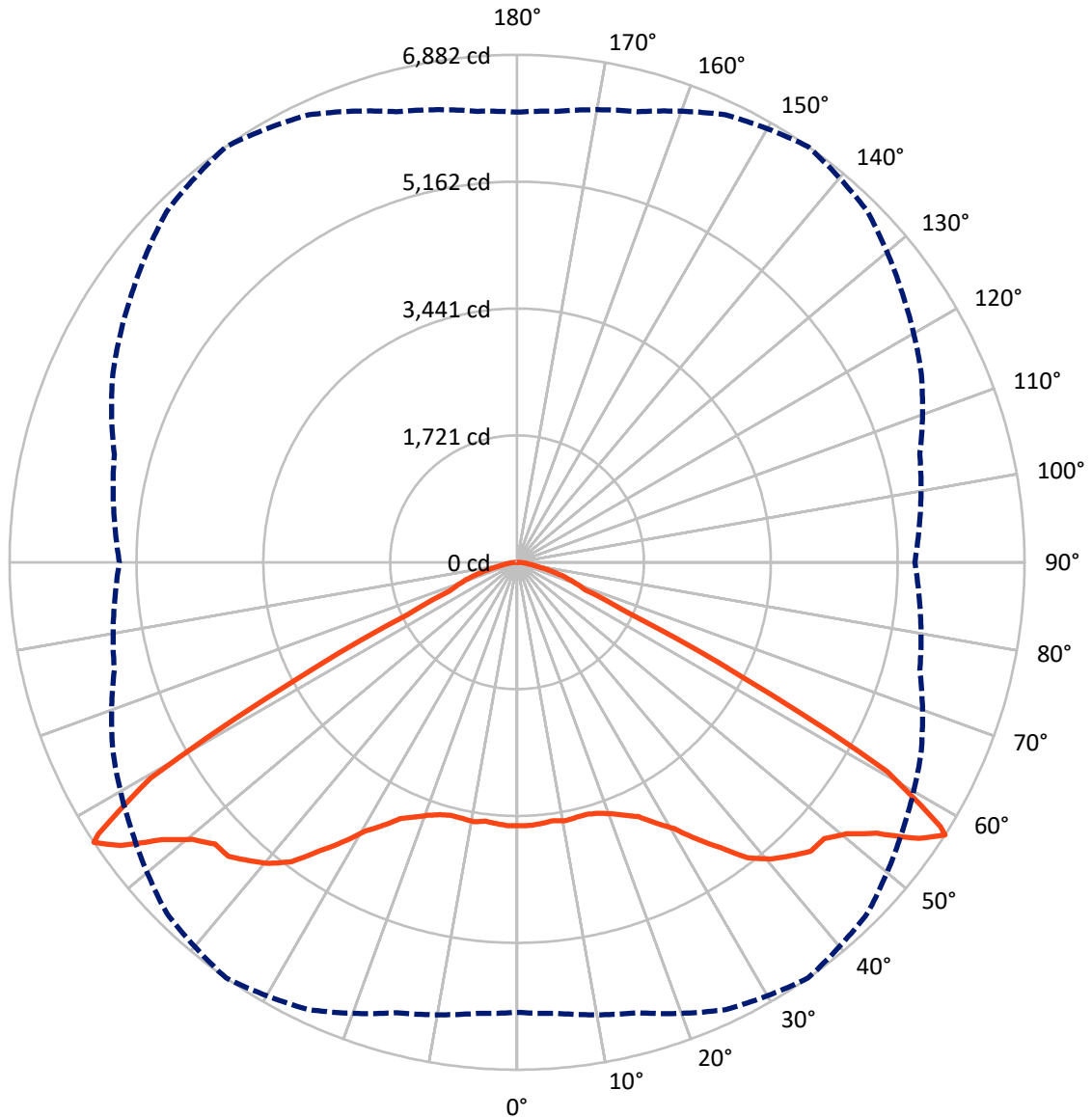
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9047.5 | 0.0 | 9047.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9047.5 | 0.0 | 9047.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 18095.0 | 0.0 | 18095.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 338.8 | 1.9 |
| 10°-20° | 1003.4 | 5.5 |
| 20°-30° | 1752.4 | 9.7 |
| 30°-40° | 2871.4 | 15.9 |
| 40°-50° | 4210.2 | 23.3 |
| 50°-60° | 5303.1 | 29.3 |
| 60°-70° | 1994.4 | 11.0 |
| 70°-80° | 530.3 | 2.9 |
| 80°-90° | 90.9 | 0.5 |
| 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° | 18095.0 | 100.0 |
| 0°-180° | 18095.0 | 100.0 |

Coefficient of Utilization

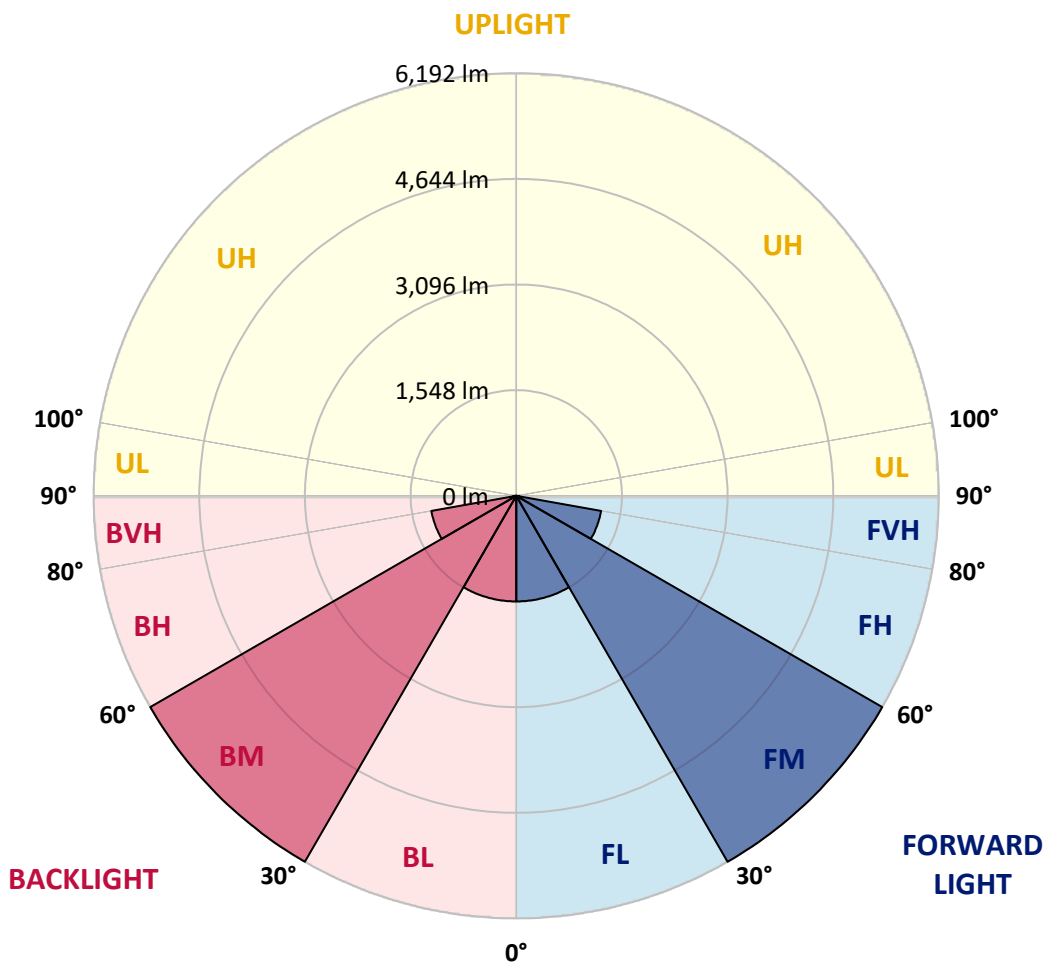


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1547.3 | 8.6 | | | |
| FM (30°-60°) | 6192.3 | 34.2 | | | |
| FH (60°-80°) | 1262.4 | 7.0 | | | G1/1800 |
| FVH (80°-90°) | 45.5 | 0.3 | | | G1/100 |
| BL (0°-30°) | 1547.3 | 8.6 | B3/2500 | | |
| BM (30°-60°) | 6192.3 | 34.2 | B4/8500 | | |
| BH (60°-80°) | 1262.4 | 7.0 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 45.5 | 0.3 | | | G1/100 |
| 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° | 3573.6 | 3573.6 | 3573.6 | 3573.6 | 3573.6 | 3573.6 | 3573.6 | 3573.6 | 3573.6 | 3573.6 | 3573.6 |
| 2.5° | 3555.8 | 3591.5 | 3575.9 | 3566.9 | 3573.6 | 3562.5 | 3544.6 | 3564.7 | 3560.3 | 3542.4 | 3535.7 |
| 5° | 3546.9 | 3573.6 | 3555.8 | 3573.6 | 3555.8 | 3587.0 | 3578.1 | 3544.6 | 3584.8 | 3546.9 | 3560.3 |
| 7.5° | 3540.2 | 3549.1 | 3553.6 | 3544.6 | 3538.0 | 3575.9 | 3555.8 | 3540.2 | 3517.9 | 3511.2 | 3522.4 |
| 10° | 3524.6 | 3546.9 | 3513.4 | 3558.0 | 3566.9 | 3540.2 | 3540.2 | 3511.2 | 3493.4 | 3482.2 | 3520.1 |
| 12.5° | 3564.7 | 3526.8 | 3522.4 | 3544.6 | 3551.3 | 3562.5 | 3531.3 | 3515.7 | 3482.2 | 3486.7 | 3480.0 |
| 15° | 3517.9 | 3533.5 | 3535.7 | 3540.2 | 3546.9 | 3573.6 | 3544.6 | 3511.2 | 3497.8 | 3451.0 | 3455.5 |
| 17.5° | 3535.7 | 3520.1 | 3535.7 | 3587.0 | 3578.1 | 3598.2 | 3566.9 | 3515.7 | 3484.5 | 3457.7 | 3493.4 |
| 20° | 3566.9 | 3560.3 | 3566.9 | 3629.4 | 3640.5 | 3658.3 | 3631.6 | 3584.8 | 3524.6 | 3493.4 | 3511.2 |
| 22.5° | 3600.4 | 3595.9 | 3600.4 | 3660.6 | 3725.2 | 3747.5 | 3720.8 | 3611.5 | 3580.3 | 3522.4 | 3502.3 |
| 25° | 3660.6 | 3665.0 | 3711.8 | 3778.7 | 3821.1 | 3863.4 | 3814.4 | 3736.4 | 3636.1 | 3600.4 | 3558.0 |
| 27.5° | 3794.3 | 3805.5 | 3832.2 | 3930.3 | 4003.9 | 4041.8 | 3972.7 | 3865.7 | 3803.3 | 3729.7 | 3718.5 |
| 30° | 3959.3 | 3959.3 | 4006.1 | 4090.8 | 4191.2 | 4249.1 | 4164.4 | 4037.3 | 3961.5 | 3921.4 | 3896.9 |
| 32.5° | 4177.8 | 4153.3 | 4171.1 | 4320.5 | 4476.5 | 4525.6 | 4411.9 | 4255.8 | 4135.4 | 4081.9 | 4064.1 |
| 35° | 4365.0 | 4380.6 | 4420.8 | 4581.3 | 4755.2 | 4868.9 | 4690.5 | 4487.7 | 4365.0 | 4316.0 | 4307.1 |
| 37.5° | 4608.0 | 4634.8 | 4654.9 | 4875.6 | 5085.1 | 5127.5 | 4955.8 | 4793.1 | 4643.7 | 4603.6 | 4581.3 |
| 40° | 4951.4 | 4933.5 | 4940.2 | 5103.0 | 5292.4 | 5319.2 | 5149.8 | 5033.8 | 4911.2 | 4886.7 | 4886.7 |
| 42.5° | 5234.5 | 5214.4 | 5236.7 | 5296.9 | 5441.8 | 5421.8 | 5328.1 | 5243.4 | 5192.1 | 5165.4 | 5192.1 |
| 45° | 5406.1 | 5401.7 | 5441.8 | 5486.4 | 5589.0 | 5522.1 | 5448.5 | 5461.9 | 5412.8 | 5368.2 | 5366.0 |
| 47.5° | 5593.4 | 5564.4 | 5613.5 | 5680.4 | 5602.3 | 5571.1 | 5566.7 | 5595.6 | 5580.0 | 5502.0 | 5477.5 |
| 50° | 5684.8 | 5673.7 | 5751.7 | 5829.7 | 5787.4 | 5716.0 | 5731.6 | 5778.4 | 5577.8 | 5473.0 | 5412.8 |
| 52.5° | 5930.0 | 5932.3 | 6081.6 | 6124.0 | 6106.2 | 6001.4 | 6034.8 | 5907.7 | 5671.4 | 5524.3 | 5531.0 |
| 55° | 6315.7 | 6300.1 | 6467.3 | 6592.2 | 6612.2 | 6478.5 | 6317.9 | 6139.6 | 5843.1 | 5693.7 | 5649.1 |
| 57° | 6103.9 | 6139.6 | 6324.6 | 6694.7 | 6882.0 | 6723.7 | 6373.7 | 6048.2 | 5653.6 | 5473.0 | 5392.8 |
| 57.5° | 5820.8 | 5878.8 | 6199.8 | 6572.1 | 6768.3 | 6754.9 | 6304.6 | 5878.8 | 5526.5 | 5245.6 | 5252.3 |
| 60° | 4264.7 | 4275.9 | 4565.7 | 5156.5 | 5769.5 | 5782.9 | 5234.5 | 4670.5 | 4278.1 | 3972.7 | 4015.0 |
| 62.5° | 2249.4 | 2300.7 | 2416.6 | 2891.5 | 3422.0 | 3551.3 | 3219.2 | 2929.4 | 2590.5 | 2358.6 | 2380.9 |
| 65° | 1190.5 | 1183.8 | 1239.5 | 1373.3 | 1634.1 | 1701.0 | 1656.4 | 1426.8 | 1308.6 | 1270.7 | 1273.0 |
| 67.5° | 967.5 | 978.7 | 972.0 | 978.7 | 996.5 | 1025.5 | 1018.8 | 1027.7 | 1034.4 | 1045.6 | 1043.3 |
| 70° | 820.4 | 820.4 | 824.9 | 827.1 | 827.1 | 840.5 | 856.1 | 885.0 | 887.3 | 898.4 | 902.9 |
| 72.5° | 646.5 | 642.0 | 648.7 | 664.3 | 666.6 | 677.7 | 700.0 | 717.8 | 724.5 | 724.5 | 711.2 |
| 75° | 439.2 | 443.6 | 452.6 | 465.9 | 479.3 | 499.4 | 517.2 | 528.4 | 532.8 | 526.1 | 519.4 |
| 77.5° | 247.5 | 251.9 | 258.6 | 278.7 | 294.3 | 312.1 | 332.2 | 343.3 | 354.5 | 356.7 | 343.3 |
| 80° | 147.1 | 147.1 | 158.3 | 173.9 | 191.7 | 209.6 | 227.4 | 240.8 | 245.2 | 245.2 | 238.5 |
| 82.5° | 89.2 | 91.4 | 100.3 | 115.9 | 131.5 | 142.7 | 158.3 | 169.4 | 178.3 | 176.1 | 171.7 |
| 85° | 46.8 | 46.8 | 55.7 | 69.1 | 80.3 | 91.4 | 91.4 | 84.7 | 80.3 | 69.1 | 64.7 |
| 87.5° | 15.6 | 13.4 | 17.8 | 17.8 | 15.6 | 17.8 | 17.8 | 20.1 | 20.1 | 20.1 | 20.1 |
| 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)