

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: P528614

Luminaire Tested: **GALN-SA3D-727-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-727-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17396 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

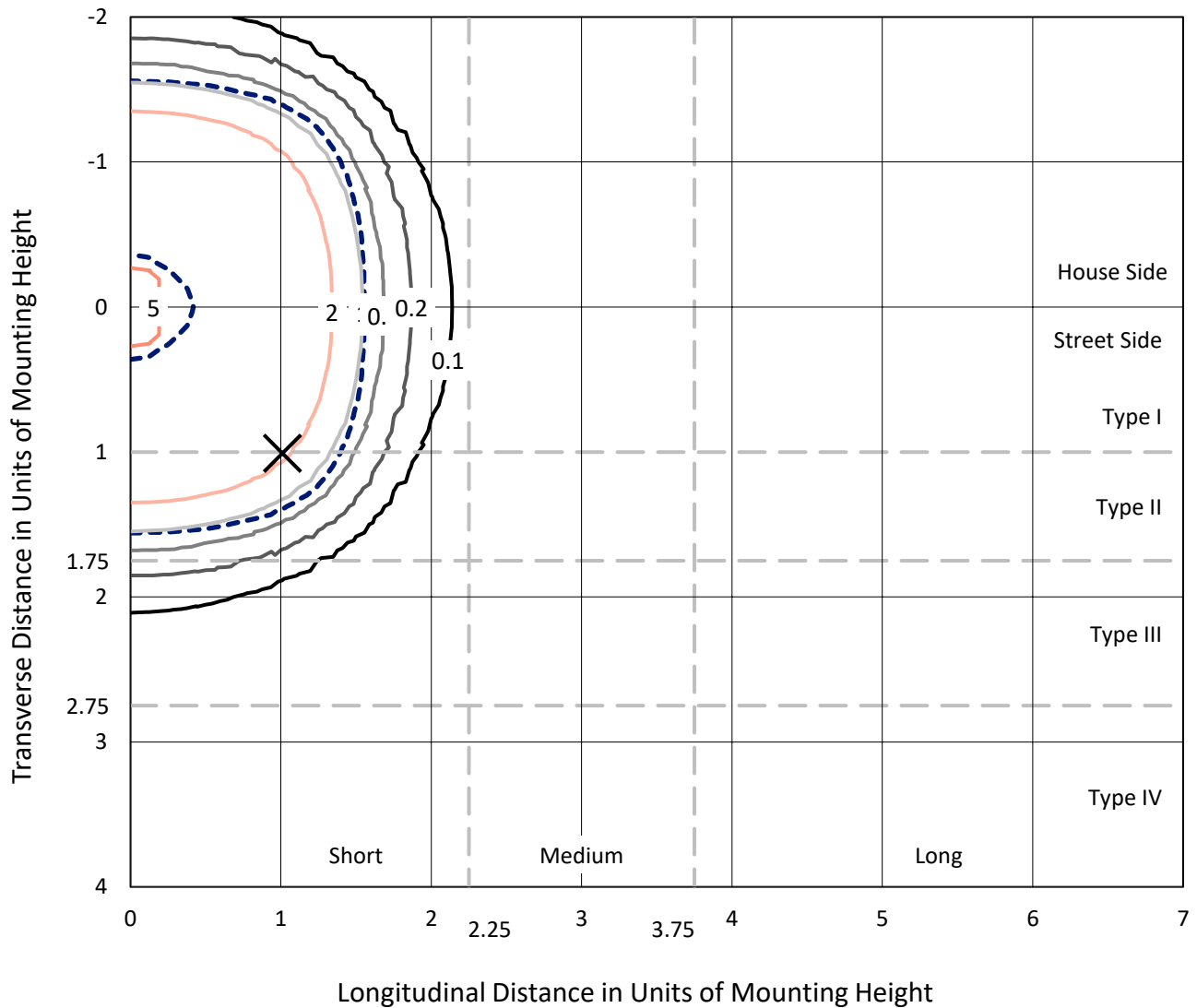
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

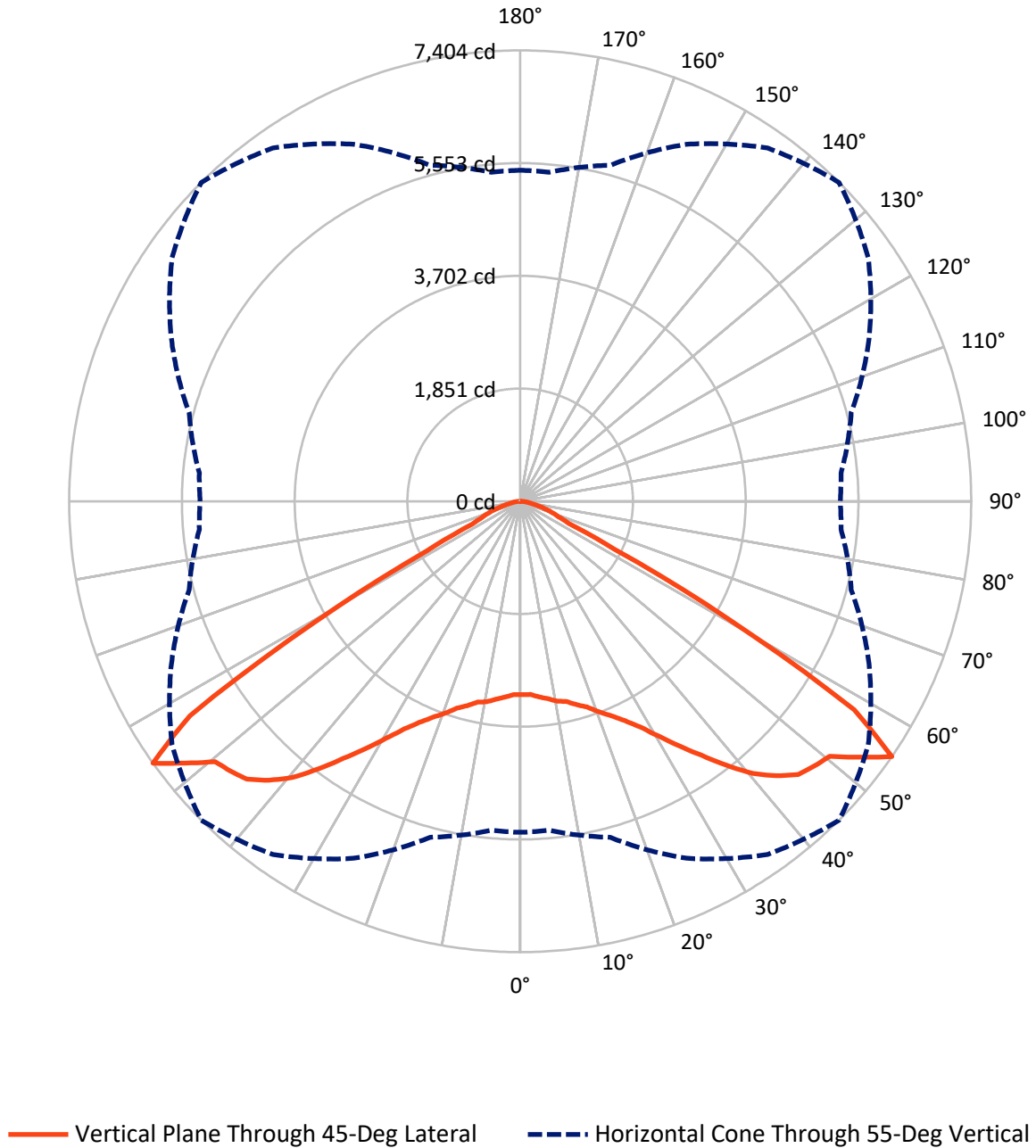
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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 | 8698.0 | 0.0 | 8698.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8698.0 | 0.0 | 8698.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 17396.0 | 0.0 | 17396.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 310.3 | 1.8 |
| 10°-20° | 983.2 | 5.7 |
| 20°-30° | 1833.3 | 10.5 |
| 30°-40° | 3069.5 | 17.6 |
| 40°-50° | 4776.4 | 27.5 |
| 50°-60° | 4959.4 | 28.5 |
| 60°-70° | 1051.7 | 6.0 |
| 70°-80° | 346.4 | 2.0 |
| 80°-90° | 66.0 | 0.4 |
| 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° | 17396.0 | 100.0 |
| 0°-180° | 17396.0 | 100.0 |

Coefficient of Utilization



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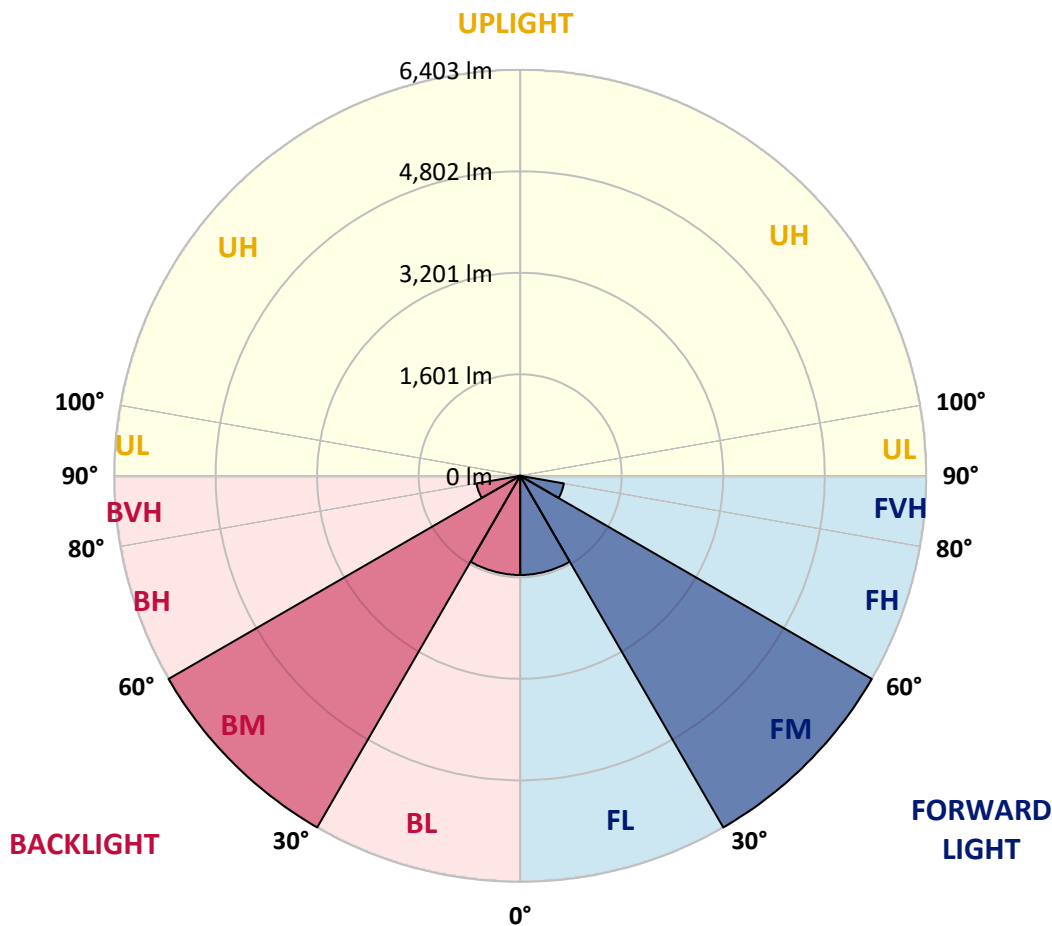
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1563.4 | 9.0 | | | |
| FM (30°-60°) | 6402.6 | 36.8 | | | |
| FH (60°-80°) | 699.0 | 4.0 | | | G1/1800 |
| FVH (80°-90°) | 33.0 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1563.4 | 9.0 | B3/2500 | | |
| BM (30°-60°) | 6402.6 | 36.8 | B4/8500 | | |
| BH (60°-80°) | 699.0 | 4.0 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 33.0 | 0.2 | | | 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° | 3176.3 | 3176.3 | 3176.3 | 3176.3 | 3176.3 | 3176.3 | 3176.3 | 3176.3 | 3176.3 | 3176.3 | 3176.3 |
| 2.5° | 3214.1 | 3199.4 | 3174.1 | 3193.1 | 3207.8 | 3176.3 | 3188.9 | 3195.2 | 3191.0 | 3174.1 | 3180.5 |
| 5° | 3260.3 | 3251.9 | 3230.9 | 3245.6 | 3226.7 | 3226.7 | 3214.1 | 3197.3 | 3222.5 | 3218.3 | 3228.8 |
| 7.5° | 3260.3 | 3249.8 | 3291.9 | 3264.5 | 3272.9 | 3272.9 | 3251.9 | 3235.1 | 3247.7 | 3228.8 | 3218.3 |
| 10° | 3325.5 | 3340.2 | 3321.3 | 3327.6 | 3323.4 | 3338.1 | 3306.6 | 3296.1 | 3285.6 | 3279.3 | 3266.6 |
| 12.5° | 3403.3 | 3392.8 | 3399.1 | 3394.9 | 3409.6 | 3371.7 | 3352.8 | 3329.7 | 3348.6 | 3321.3 | 3340.2 |
| 15° | 3466.3 | 3460.0 | 3466.3 | 3483.2 | 3468.4 | 3466.3 | 3432.7 | 3409.6 | 3380.2 | 3386.5 | 3357.0 |
| 17.5° | 3552.5 | 3546.2 | 3548.3 | 3563.0 | 3560.9 | 3550.4 | 3525.2 | 3481.1 | 3470.5 | 3453.7 | 3434.8 |
| 20° | 3680.8 | 3670.2 | 3666.0 | 3672.3 | 3682.9 | 3691.3 | 3640.8 | 3624.0 | 3588.3 | 3560.9 | 3529.4 |
| 22.5° | 3790.1 | 3785.9 | 3802.7 | 3775.3 | 3798.5 | 3823.7 | 3775.3 | 3766.9 | 3678.6 | 3663.9 | 3630.3 |
| 25° | 3941.4 | 3935.1 | 3924.6 | 3964.5 | 3991.9 | 3989.8 | 3943.5 | 3897.3 | 3830.0 | 3813.2 | 3813.2 |
| 27.5° | 4101.2 | 4065.4 | 4120.1 | 4130.6 | 4178.9 | 4193.7 | 4153.7 | 4086.5 | 4023.4 | 3987.7 | 3996.1 |
| 30° | 4300.9 | 4267.2 | 4279.8 | 4355.5 | 4418.6 | 4473.2 | 4372.3 | 4273.5 | 4185.3 | 4122.2 | 4111.7 |
| 32.5° | 4500.6 | 4466.9 | 4504.8 | 4578.3 | 4704.5 | 4786.4 | 4687.6 | 4515.3 | 4412.3 | 4319.8 | 4338.7 |
| 35° | 4662.4 | 4687.6 | 4748.6 | 4860.0 | 4990.3 | 5122.8 | 4965.1 | 4832.7 | 4685.5 | 4582.5 | 4597.3 |
| 37.5° | 4923.1 | 5000.9 | 5049.2 | 5177.4 | 5362.4 | 5499.1 | 5335.1 | 5162.7 | 5005.1 | 4870.5 | 4824.3 |
| 40° | 5263.6 | 5316.2 | 5370.8 | 5522.2 | 5740.8 | 5877.4 | 5721.9 | 5497.0 | 5341.4 | 5202.7 | 5196.4 |
| 42.5° | 5637.8 | 5688.2 | 5745.0 | 5930.0 | 6060.3 | 6163.3 | 6020.4 | 5900.6 | 5728.2 | 5618.9 | 5612.6 |
| 45° | 6072.9 | 6037.2 | 6100.3 | 6222.2 | 6331.5 | 6398.7 | 6306.3 | 6247.4 | 6123.4 | 6022.5 | 6012.0 |
| 47.5° | 6363.0 | 6331.5 | 6445.0 | 6554.3 | 6571.1 | 6497.5 | 6516.5 | 6571.1 | 6440.8 | 6274.7 | 6327.3 |
| 50° | 6531.2 | 6531.2 | 6606.9 | 6707.8 | 6676.2 | 6581.6 | 6730.9 | 6735.1 | 6604.8 | 6457.6 | 6457.6 |
| 52.5° | 6239.0 | 6304.2 | 6518.6 | 6848.6 | 6953.7 | 6981.0 | 6947.4 | 6804.4 | 6463.9 | 6163.3 | 6148.6 |
| 55° | 5436.0 | 5421.3 | 5711.4 | 6468.1 | 7079.8 | 7403.5 | 6974.7 | 6316.8 | 5625.2 | 5286.7 | 5253.1 |
| 57.5° | 3535.7 | 3552.5 | 3985.6 | 4757.0 | 5860.6 | 6463.9 | 5740.8 | 4815.9 | 3985.6 | 3518.9 | 3563.0 |
| 60° | 1591.3 | 1648.0 | 1910.8 | 2486.8 | 3434.8 | 3926.7 | 3443.2 | 2612.9 | 2005.4 | 1740.5 | 1763.6 |
| 62.5° | 914.4 | 924.9 | 935.4 | 1109.9 | 1463.1 | 1730.0 | 1519.8 | 1173.0 | 1034.2 | 988.0 | 988.0 |
| 65° | 771.5 | 765.2 | 767.3 | 782.0 | 819.8 | 874.5 | 851.3 | 819.8 | 824.0 | 819.8 | 813.5 |
| 67.5° | 655.9 | 664.3 | 658.0 | 668.5 | 670.6 | 679.0 | 693.7 | 706.3 | 708.4 | 712.6 | 708.4 |
| 70° | 538.1 | 540.2 | 544.4 | 552.8 | 555.0 | 561.3 | 582.3 | 592.8 | 599.1 | 599.1 | 607.5 |
| 72.5° | 412.0 | 409.9 | 414.1 | 422.5 | 433.0 | 435.1 | 454.1 | 468.8 | 477.2 | 466.7 | 468.8 |
| 75° | 271.2 | 273.3 | 279.6 | 285.9 | 300.6 | 315.3 | 321.6 | 336.3 | 338.4 | 342.6 | 332.1 |
| 77.5° | 161.9 | 166.1 | 172.4 | 185.0 | 197.6 | 210.2 | 224.9 | 235.4 | 239.6 | 235.4 | 222.8 |
| 80° | 105.1 | 105.1 | 113.5 | 124.0 | 138.7 | 149.2 | 157.7 | 166.1 | 172.4 | 166.1 | 161.9 |
| 82.5° | 65.2 | 65.2 | 75.7 | 88.3 | 98.8 | 105.1 | 117.7 | 128.2 | 134.5 | 130.3 | 124.0 |
| 85° | 33.6 | 35.7 | 44.1 | 54.7 | 63.1 | 67.3 | 65.2 | 58.9 | 52.6 | 50.5 | 46.2 |
| 87.5° | 10.5 | 10.5 | 12.6 | 12.6 | 10.5 | 10.5 | 12.6 | 10.5 | 12.6 | 12.6 | 12.6 |
| 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)