

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: P383135

Luminaire Tested: **GLEON-SA4D-735-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4D-735-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29803.9 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

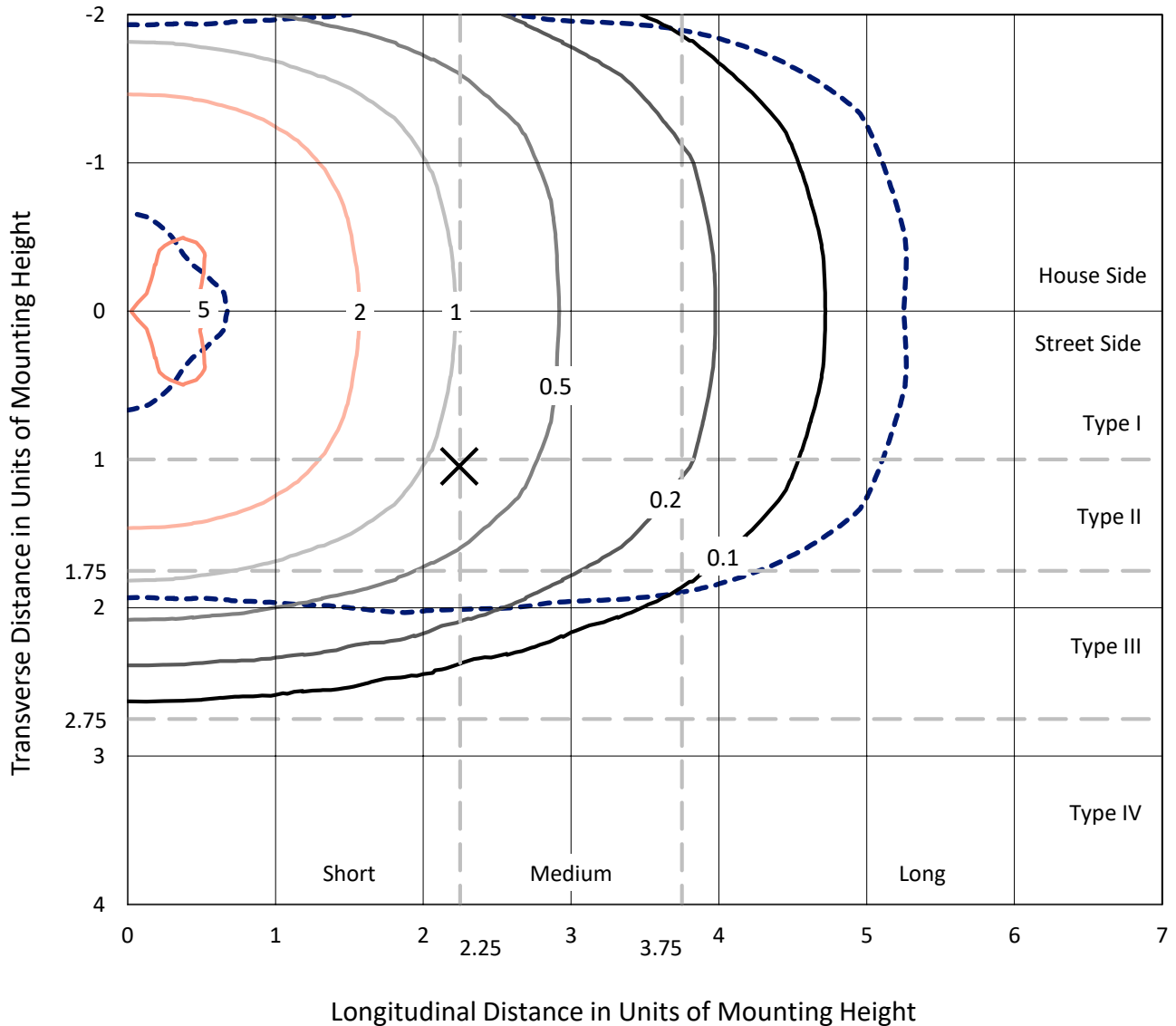
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

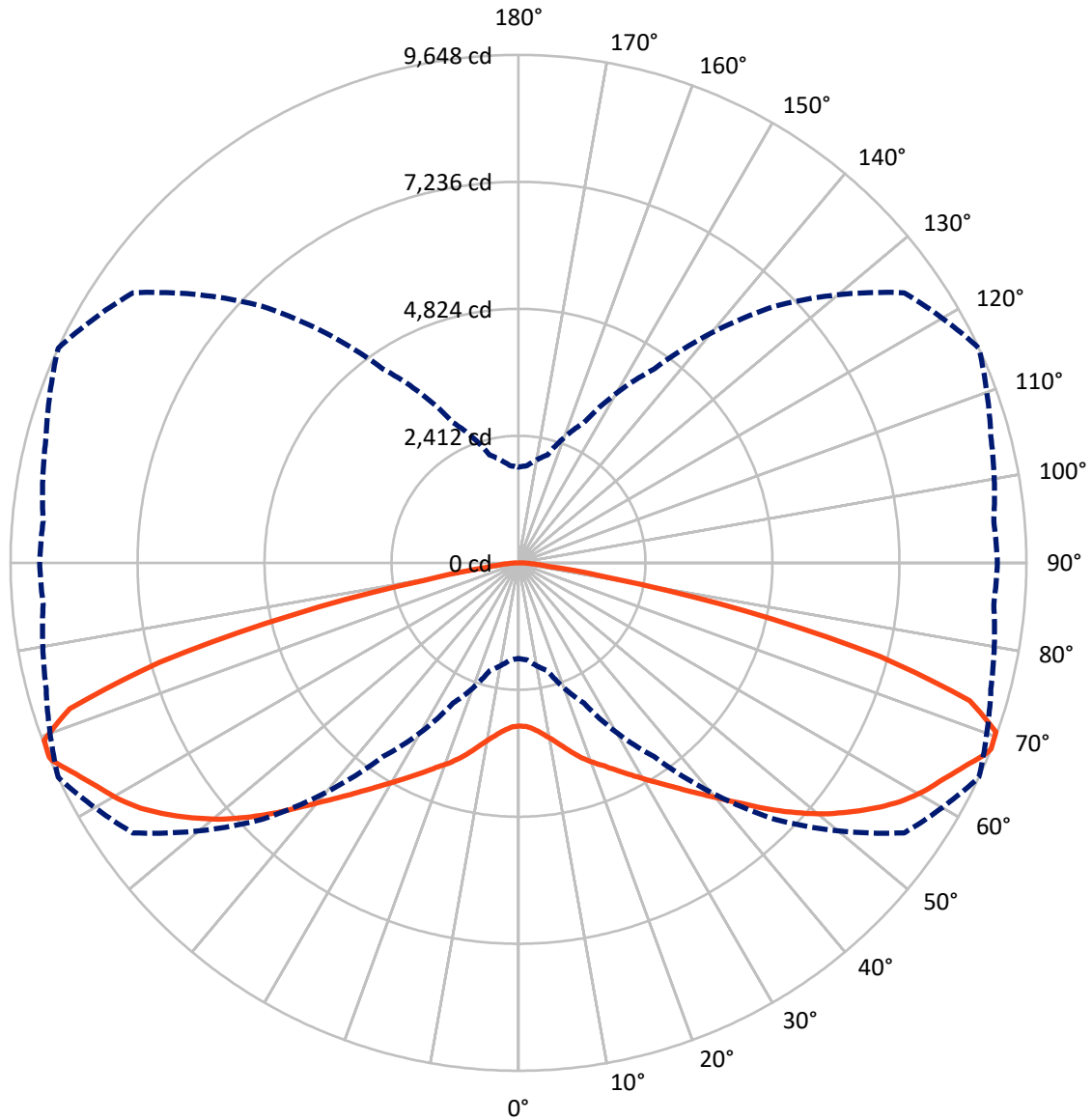
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14902.0 | 0.0 | 14902.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 14902.0 | 0.0 | 14902.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 29803.9 | 0.0 | 29803.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 303.4 | 1.0 |
| 10°-20° | 1015.9 | 3.4 |
| 20°-30° | 1980.8 | 6.6 |
| 30°-40° | 3327.6 | 11.2 |
| 40°-50° | 5243.1 | 17.6 |
| 50°-60° | 7011.7 | 23.5 |
| 60°-70° | 6816.3 | 22.9 |
| 70°-80° | 3726.1 | 12.5 |
| 80°-90° | 379.0 | 1.3 |
| 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° | 29803.9 | 100.0 |
| 0°-180° | 29803.9 | 100.0 |

Coefficient of Utilization

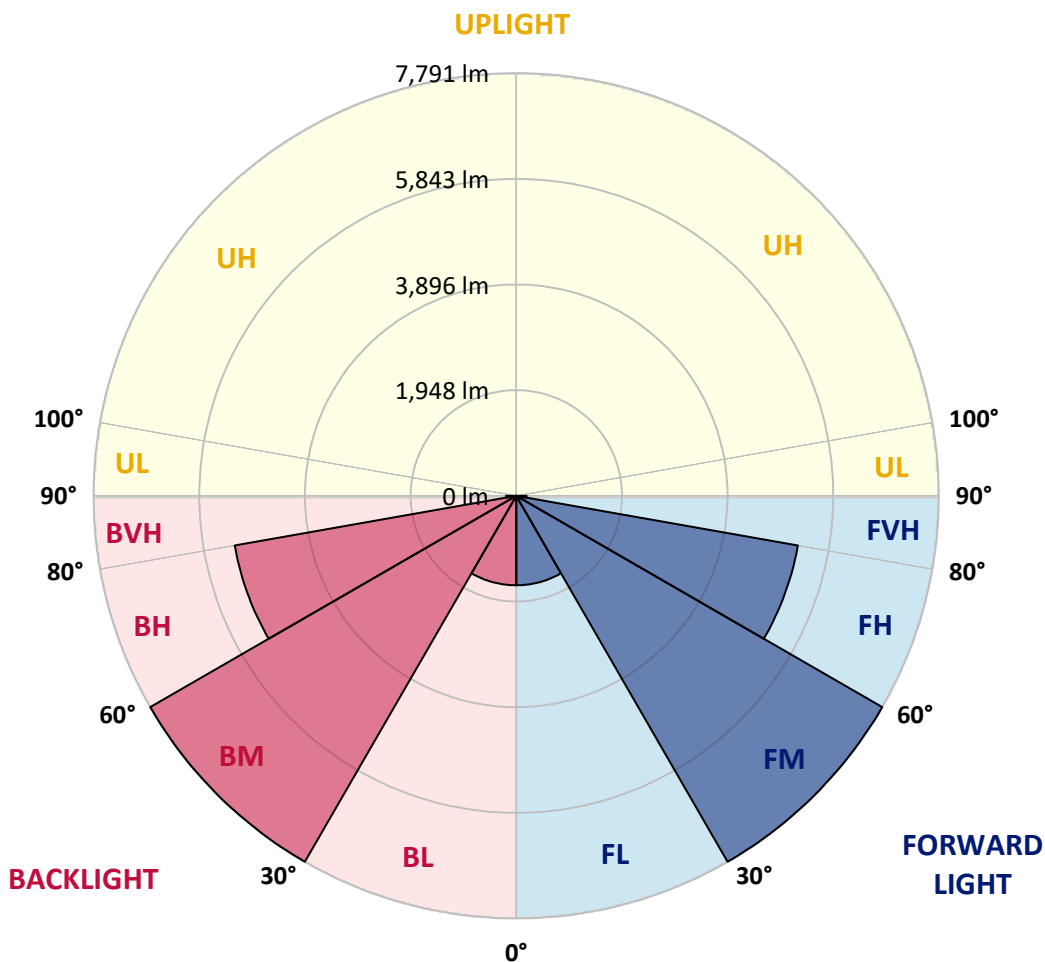


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1650.1 | 5.5 | | | |
| FM (30°-60°) | 7791.2 | 26.1 | | | |
| FH (60°-80°) | 5271.2 | 17.7 | | | G3/7500 |
| FVH (80°-90°) | 189.5 | 0.6 | | | G2/225 |
| BL (0°-30°) | 1650.1 | 5.5 | B3/2500 | | |
| BM (30°-60°) | 7791.2 | 26.1 | B4/8500 | | |
| BH (60°-80°) | 5271.2 | 17.7 | B5 | | G5 |
| BVH (80°-90°) | 189.5 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3098.9 | 3098.9 | 3098.9 | 3098.9 | 3098.9 | 3098.9 | 3098.9 | 3098.9 | 3098.9 | 3098.9 | 3098.9 |
| 2.5° | 3076.9 | 3077.9 | 3083.0 | 3088.9 | 3093.9 | 3106.9 | 3109.9 | 3114.9 | 3116.9 | 3121.9 | 3121.9 |
| 5° | 3050.0 | 3051.9 | 3064.0 | 3079.9 | 3098.0 | 3129.9 | 3152.9 | 3178.8 | 3191.9 | 3205.8 | 3204.8 |
| 7.5° | 3046.9 | 3051.9 | 3068.9 | 3094.9 | 3124.9 | 3177.9 | 3225.9 | 3277.7 | 3312.8 | 3344.7 | 3342.8 |
| 10° | 3077.9 | 3085.9 | 3109.9 | 3148.9 | 3193.8 | 3259.8 | 3330.7 | 3400.7 | 3461.6 | 3510.6 | 3512.6 |
| 12.5° | 3124.9 | 3134.8 | 3172.9 | 3231.8 | 3299.7 | 3384.7 | 3468.6 | 3547.6 | 3631.5 | 3704.5 | 3710.5 |
| 15° | 3186.8 | 3199.9 | 3256.8 | 3344.7 | 3448.7 | 3549.6 | 3639.6 | 3720.5 | 3817.4 | 3918.4 | 3928.3 |
| 17.5° | 3278.8 | 3296.7 | 3371.7 | 3490.6 | 3627.5 | 3738.5 | 3832.4 | 3893.4 | 3974.4 | 4078.2 | 4097.2 |
| 20° | 3418.7 | 3441.7 | 3536.6 | 3678.5 | 3845.4 | 3961.3 | 4033.3 | 4046.3 | 4086.2 | 4179.2 | 4201.2 |
| 22.5° | 3600.5 | 3620.6 | 3726.5 | 3895.4 | 4082.2 | 4208.2 | 4246.1 | 4194.2 | 4190.2 | 4265.1 | 4286.1 |
| 25° | 3803.4 | 3821.4 | 3944.4 | 4134.2 | 4335.0 | 4473.9 | 4473.0 | 4372.0 | 4302.1 | 4360.0 | 4382.0 |
| 27.5° | 4031.3 | 4059.2 | 4177.2 | 4377.1 | 4591.9 | 4728.8 | 4720.8 | 4565.0 | 4432.0 | 4447.0 | 4466.0 |
| 30° | 4293.1 | 4324.1 | 4439.0 | 4641.9 | 4856.7 | 4990.7 | 4980.6 | 4774.7 | 4574.9 | 4535.0 | 4548.9 |
| 32.5° | 4617.9 | 4654.9 | 4763.7 | 4963.7 | 5153.5 | 5274.4 | 5245.5 | 5002.6 | 4746.8 | 4659.9 | 4672.8 |
| 35° | 5008.7 | 5030.6 | 5145.5 | 5342.4 | 5496.3 | 5579.2 | 5518.3 | 5266.4 | 4964.7 | 4859.7 | 4859.7 |
| 37.5° | 5404.4 | 5421.3 | 5550.3 | 5741.1 | 5890.0 | 5934.0 | 5815.1 | 5555.3 | 5249.5 | 5100.6 | 5103.6 |
| 40° | 5784.1 | 5830.1 | 5974.9 | 6170.9 | 6317.8 | 6329.8 | 6171.9 | 5885.1 | 5566.3 | 5412.4 | 5430.4 |
| 42.5° | 6180.8 | 6225.8 | 6398.7 | 6620.5 | 6750.5 | 6770.4 | 6585.6 | 6254.8 | 5924.0 | 5799.1 | 5819.1 |
| 45° | 6534.6 | 6570.6 | 6770.4 | 7028.2 | 7190.2 | 7242.1 | 7023.2 | 6678.5 | 6310.8 | 6188.8 | 6193.9 |
| 47.5° | 6781.4 | 6828.4 | 7048.3 | 7352.1 | 7587.9 | 7667.8 | 7452.9 | 7091.2 | 6691.5 | 6543.6 | 6556.6 |
| 50° | 7005.2 | 7030.3 | 7253.1 | 7584.8 | 7884.7 | 8049.6 | 7865.7 | 7499.0 | 7076.2 | 6919.3 | 6933.3 |
| 52.5° | 7130.2 | 7162.2 | 7378.0 | 7723.7 | 8078.6 | 8344.3 | 8232.5 | 7865.7 | 7448.0 | 7295.0 | 7312.1 |
| 55° | 7043.2 | 7067.2 | 7326.1 | 7754.8 | 8198.5 | 8526.3 | 8543.2 | 8224.4 | 7812.7 | 7678.8 | 7726.8 |
| 57.5° | 6647.5 | 6677.5 | 6993.3 | 7554.9 | 8213.5 | 8649.1 | 8777.0 | 8557.2 | 8153.5 | 8044.6 | 8072.5 |
| 60° | 6029.0 | 6047.9 | 6384.7 | 7016.2 | 7921.7 | 8700.1 | 8926.0 | 8829.0 | 8487.2 | 8378.3 | 8416.3 |
| 62.5° | 4926.7 | 4954.6 | 5357.4 | 6203.8 | 7305.1 | 8549.2 | 9069.9 | 9053.9 | 8798.1 | 8698.1 | 8732.1 |
| 65° | 3367.7 | 3416.7 | 3862.4 | 4932.6 | 6354.7 | 8087.5 | 9200.8 | 9315.8 | 9072.9 | 8947.0 | 8991.9 |
| 67.5° | 2033.7 | 2069.6 | 2392.4 | 3256.8 | 4862.7 | 7156.1 | 9065.9 | 9613.5 | 9266.8 | 9063.9 | 9100.8 |
| 68° | 1817.7 | 1850.7 | 2120.6 | 2939.0 | 4498.0 | 6893.4 | 8943.0 | 9647.5 | 9287.7 | 9061.9 | 9094.9 |
| 70° | 1098.3 | 1120.3 | 1301.1 | 1816.8 | 2998.9 | 5468.3 | 8104.6 | 9619.5 | 9421.7 | 9089.9 | 9108.9 |
| 72.5° | 715.5 | 722.5 | 752.5 | 932.4 | 1531.9 | 3057.9 | 6082.9 | 8963.9 | 9622.5 | 9252.8 | 9249.7 |
| 75° | 594.6 | 590.6 | 593.6 | 614.5 | 755.5 | 1341.1 | 3554.6 | 7081.3 | 9172.8 | 8996.0 | 8933.0 |
| 77.5° | 502.7 | 499.7 | 498.7 | 499.7 | 505.6 | 647.5 | 1542.9 | 4411.1 | 7019.3 | 7957.7 | 8013.5 |
| 80° | 406.7 | 402.7 | 415.7 | 409.7 | 391.7 | 402.7 | 646.6 | 1834.8 | 3308.8 | 3559.6 | 3335.8 |
| 82.5° | 295.8 | 280.8 | 336.8 | 320.8 | 305.8 | 283.8 | 356.8 | 592.6 | 789.5 | 541.6 | 380.7 |
| 85° | 227.9 | 211.8 | 255.8 | 245.8 | 209.9 | 144.9 | 211.8 | 289.8 | 319.8 | 182.9 | 143.9 |
| 87.5° | 93.0 | 97.9 | 184.9 | 145.9 | 122.9 | 70.0 | 86.9 | 115.9 | 155.9 | 78.0 | 60.0 |
| 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)