

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: P456541

Luminaire Tested: **GALN-SA7D-750-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-750-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56512 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

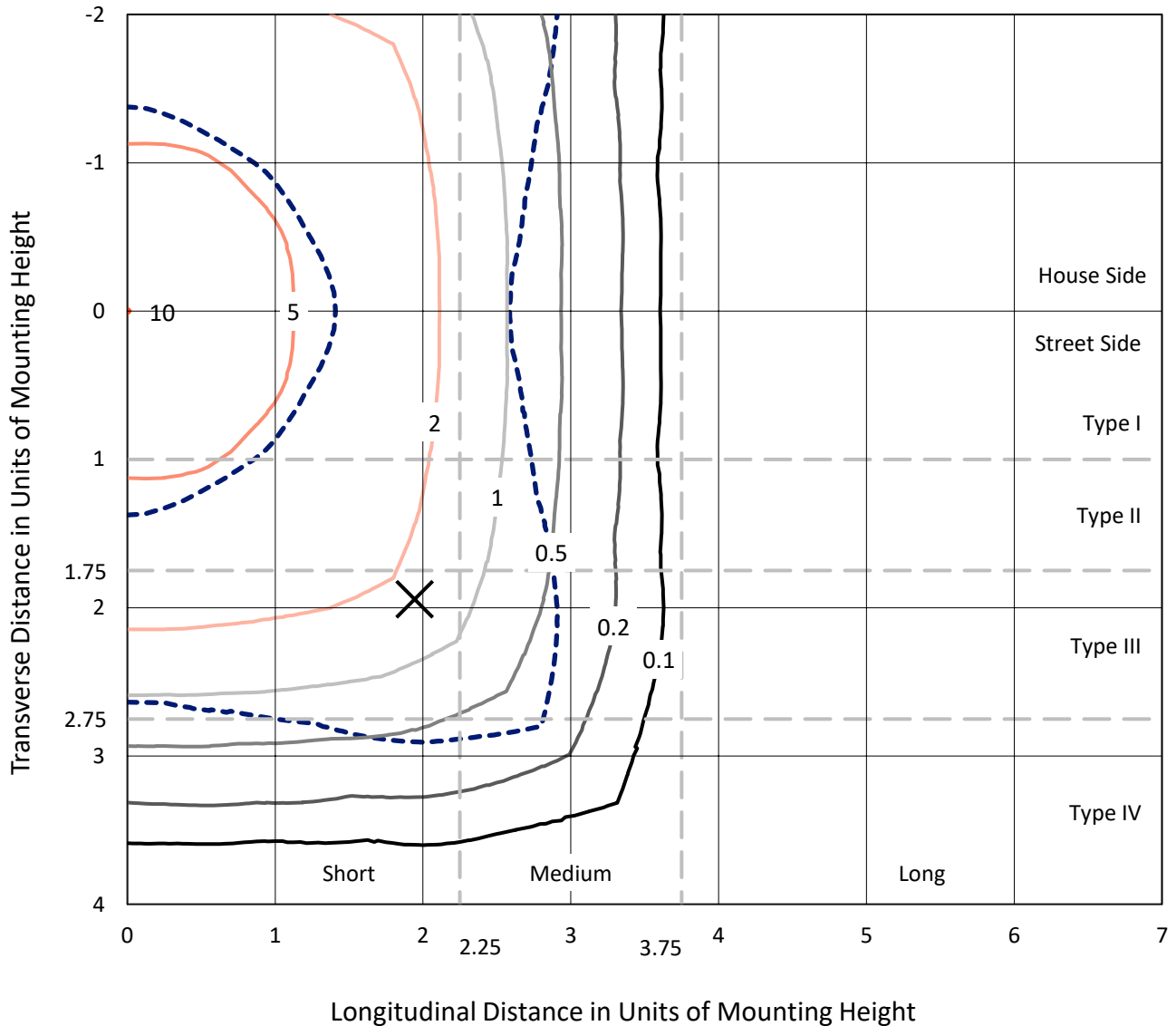
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

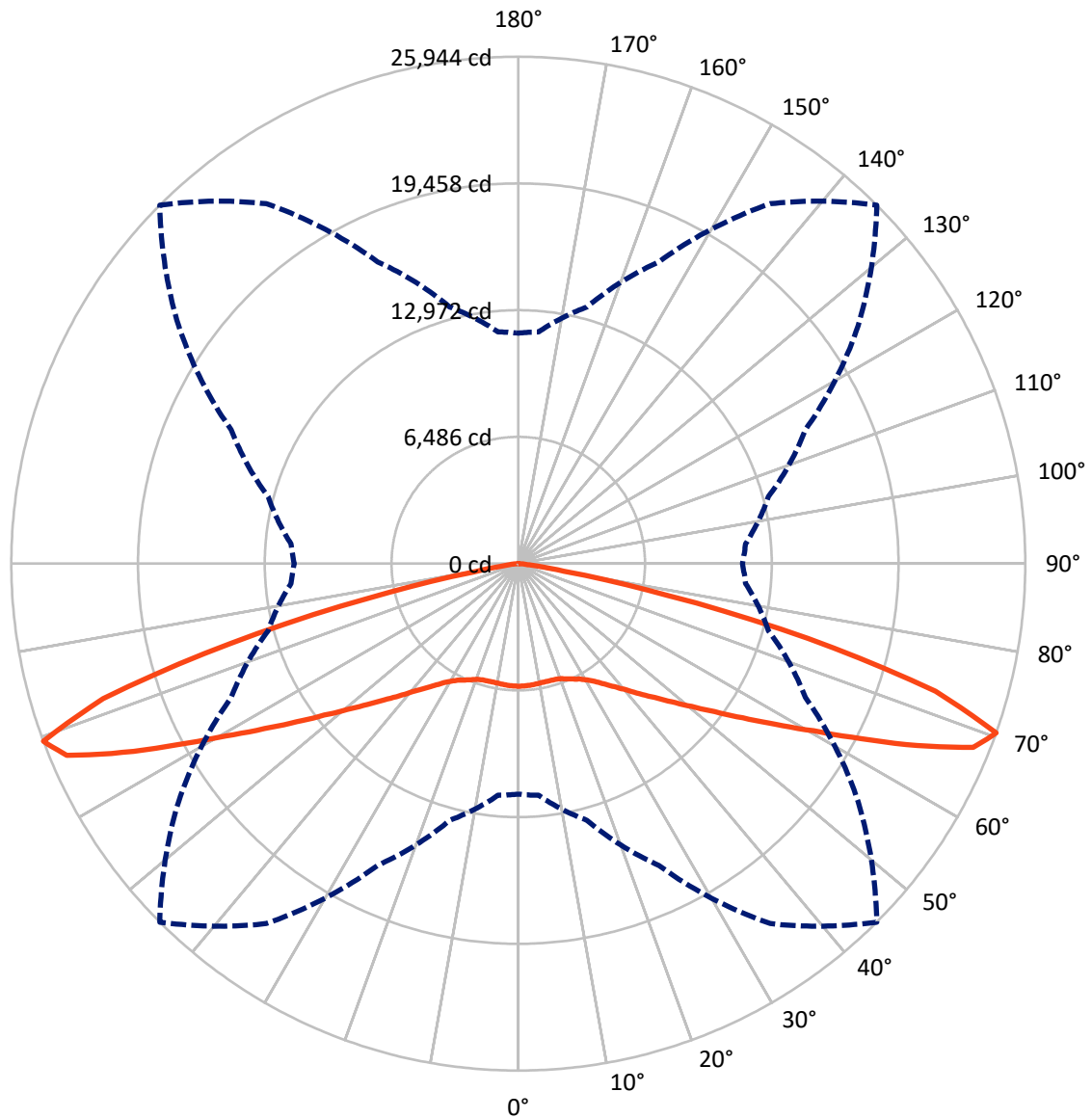
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 28256.0 | 0.0 | 28256.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 28256.0 | 0.0 | 28256.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 56512.0 | 0.0 | 56512.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 595.1 | 1.1 |
| 10°-20° | 1746.3 | 3.1 |
| 20°-30° | 2986.6 | 5.3 |
| 30°-40° | 4740.4 | 8.4 |
| 40°-50° | 7647.5 | 13.5 |
| 50°-60° | 12442.6 | 22.0 |
| 60°-70° | 18037.3 | 31.9 |
| 70°-80° | 8000.7 | 14.2 |
| 80°-90° | 315.6 | 0.6 |
| 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° | 56512.0 | 100.0 |
| 0°-180° | 56512.0 | 100.0 |

Coefficient of Utilization



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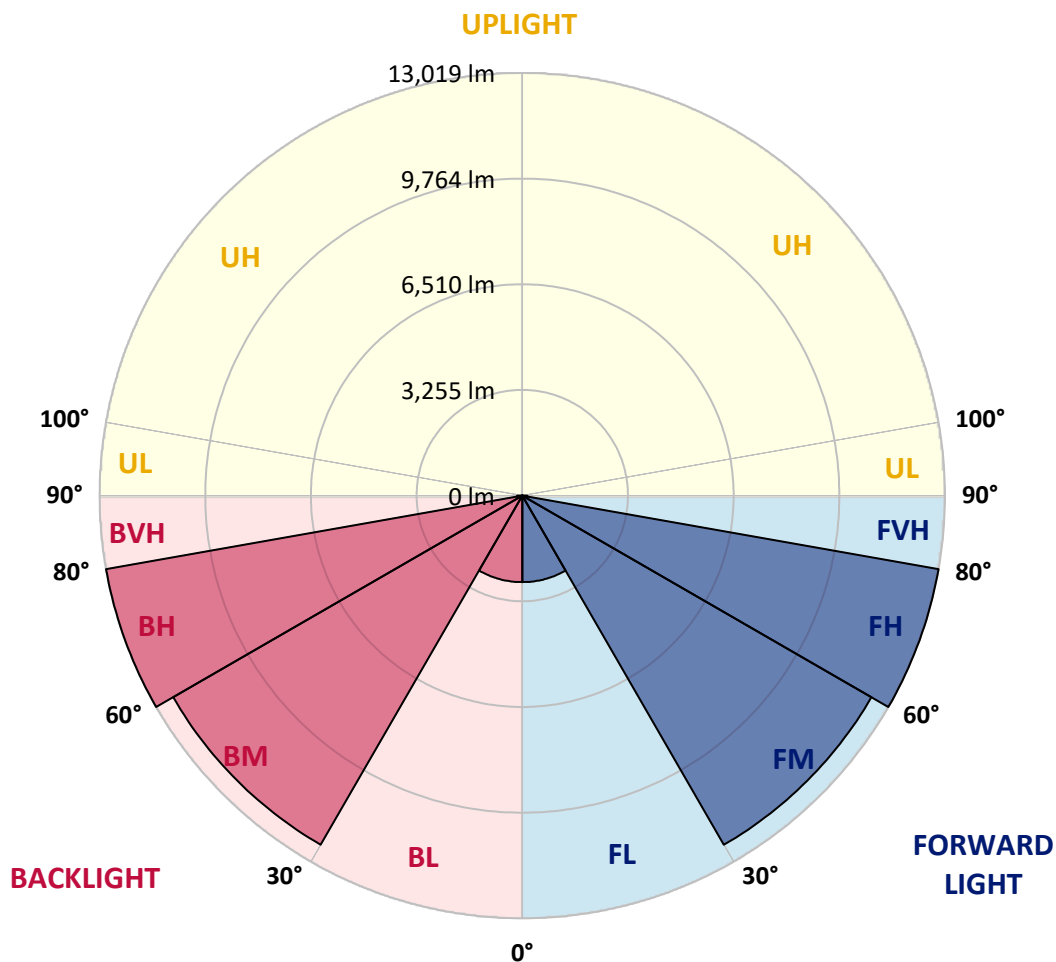
CATALOG NUMBER: GALN-SA7D-750-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2664.0 | 4.7 | | | |
| FM (30°-60°) | 12415.2 | 22.0 | | | |
| FH (60°-80°) | 13019.0 | 23.0 | | | G5 |
| FVH (80°-90°) | 157.8 | 0.3 | | | G2/225 |
| BL (0°-30°) | 2664.0 | 4.7 | B4/5000 | | |
| BM (30°-60°) | 12415.2 | 22.0 | B5 | | |
| BH (60°-80°) | 13019.0 | 23.0 | B5 | | G5 |
| BVH (80°-90°) | 157.8 | 0.3 | | | 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 V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6275.4 | 6275.4 | 6275.4 | 6275.4 | 6275.4 | 6275.4 | 6275.4 | 6275.4 | 6275.4 | 6275.4 | 6275.4 |
| 2.5° | 6275.4 | 6281.3 | 6272.4 | 6266.5 | 6263.5 | 6263.5 | 6260.5 | 6263.5 | 6281.3 | 6284.3 | 6275.4 |
| 5° | 6257.5 | 6263.5 | 6260.5 | 6254.5 | 6251.6 | 6251.6 | 6248.6 | 6245.6 | 6260.5 | 6266.5 | 6263.5 |
| 7.5° | 6233.7 | 6236.7 | 6233.7 | 6230.7 | 6233.7 | 6230.7 | 6221.8 | 6215.8 | 6227.7 | 6227.7 | 6224.8 |
| 10° | 6192.0 | 6198.0 | 6195.0 | 6198.0 | 6203.9 | 6203.9 | 6192.0 | 6180.1 | 6183.1 | 6177.1 | 6177.1 |
| 12.5° | 6141.4 | 6150.3 | 6153.3 | 6165.2 | 6180.1 | 6198.0 | 6171.1 | 6144.3 | 6138.4 | 6135.4 | 6132.4 |
| 15° | 6108.6 | 6117.5 | 6129.5 | 6141.4 | 6168.2 | 6206.9 | 6168.2 | 6126.5 | 6114.6 | 6102.6 | 6096.7 |
| 17.5° | 6099.7 | 6111.6 | 6129.5 | 6147.3 | 6183.1 | 6221.8 | 6189.0 | 6147.3 | 6117.5 | 6099.7 | 6093.7 |
| 20° | 6123.5 | 6132.4 | 6159.2 | 6192.0 | 6242.6 | 6281.3 | 6248.6 | 6203.9 | 6159.2 | 6132.4 | 6123.5 |
| 22.5° | 6171.1 | 6186.0 | 6218.8 | 6278.4 | 6349.9 | 6406.4 | 6361.8 | 6287.3 | 6215.8 | 6180.1 | 6168.2 |
| 25° | 6275.4 | 6287.3 | 6326.0 | 6406.4 | 6489.8 | 6543.4 | 6495.8 | 6409.4 | 6311.1 | 6263.5 | 6248.6 |
| 27.5° | 6433.2 | 6451.1 | 6492.8 | 6588.1 | 6656.6 | 6686.4 | 6653.6 | 6594.1 | 6522.6 | 6472.0 | 6460.0 |
| 30° | 6656.6 | 6677.5 | 6740.0 | 6841.3 | 6886.0 | 6903.8 | 6888.9 | 6850.2 | 6799.6 | 6746.0 | 6734.1 |
| 32.5° | 6957.4 | 6969.3 | 7040.8 | 7136.1 | 7177.8 | 7183.8 | 7165.9 | 7148.0 | 7064.7 | 6975.3 | 6969.3 |
| 35° | 7294.0 | 7314.8 | 7401.2 | 7514.4 | 7553.1 | 7556.1 | 7520.3 | 7493.5 | 7395.3 | 7323.8 | 7323.8 |
| 37.5° | 7740.7 | 7749.7 | 7833.1 | 7961.1 | 8002.8 | 7990.9 | 7973.1 | 7949.2 | 7845.0 | 7752.7 | 7755.6 |
| 40° | 8264.9 | 8282.8 | 8354.3 | 8503.2 | 8503.2 | 8488.3 | 8500.2 | 8482.4 | 8378.1 | 8288.8 | 8291.7 |
| 42.5° | 8887.4 | 8896.3 | 8982.7 | 9140.6 | 9128.7 | 9098.9 | 9110.8 | 9087.0 | 9021.4 | 8920.2 | 8884.4 |
| 45° | 9551.6 | 9587.3 | 9736.2 | 9888.1 | 9864.3 | 9769.0 | 9816.7 | 9810.7 | 9751.1 | 9599.2 | 9608.2 |
| 47.5° | 10352.8 | 10412.3 | 10555.3 | 10737.0 | 10710.2 | 10561.2 | 10614.9 | 10650.6 | 10567.2 | 10400.4 | 10370.6 |
| 50° | 11255.2 | 11293.9 | 11505.4 | 11675.1 | 11651.3 | 11493.5 | 11615.6 | 11621.5 | 11413.1 | 11177.8 | 11177.8 |
| 52.5° | 12217.2 | 12255.9 | 12541.8 | 12806.9 | 12821.8 | 12592.5 | 12690.8 | 12684.8 | 12345.3 | 12035.5 | 11976.0 |
| 55° | 13295.4 | 13313.2 | 13682.6 | 14072.7 | 14156.1 | 13932.7 | 13944.7 | 13825.5 | 13384.7 | 13024.3 | 12991.6 |
| 57.5° | 14409.3 | 14474.8 | 14882.8 | 15389.2 | 15636.4 | 15499.4 | 15436.8 | 15118.1 | 14692.2 | 14278.2 | 14257.4 |
| 60° | 15642.3 | 15645.3 | 16175.4 | 16774.1 | 17274.5 | 17366.8 | 17110.6 | 16684.7 | 16133.7 | 15585.7 | 15561.9 |
| 62.5° | 16497.1 | 16625.2 | 17295.3 | 18307.9 | 19204.4 | 19722.7 | 19046.6 | 18153.1 | 17068.9 | 16184.4 | 16095.0 |
| 65° | 16672.8 | 16759.2 | 17780.8 | 19496.3 | 21328.0 | 22444.9 | 20881.2 | 18981.0 | 17131.5 | 15952.1 | 15892.5 |
| 67.5° | 15252.1 | 15344.5 | 16720.5 | 19353.3 | 22817.2 | 25107.5 | 22072.6 | 18581.9 | 16071.2 | 14611.8 | 14495.6 |
| 70° | 11797.3 | 11901.5 | 13602.1 | 17036.2 | 22486.6 | 25944.4 | 21223.7 | 16208.2 | 13253.7 | 11678.1 | 11466.7 |
| 72.5° | 6272.4 | 6656.6 | 8110.1 | 11693.0 | 18251.4 | 22337.7 | 17402.5 | 11827.0 | 8547.9 | 6987.2 | 6707.3 |
| 75° | 2290.4 | 2338.0 | 3148.1 | 5185.3 | 10617.8 | 15317.7 | 11025.9 | 5641.0 | 3243.4 | 2504.8 | 2376.7 |
| 77.5° | 947.1 | 944.1 | 1036.5 | 1566.6 | 3857.0 | 7845.0 | 4303.7 | 1656.0 | 1033.5 | 956.1 | 944.1 |
| 80° | 559.9 | 559.9 | 616.5 | 652.3 | 1015.6 | 2367.8 | 1134.8 | 738.6 | 619.5 | 565.9 | 574.8 |
| 82.5° | 250.2 | 265.1 | 390.2 | 411.0 | 491.4 | 649.3 | 548.0 | 470.6 | 405.1 | 280.0 | 253.2 |
| 85° | 137.0 | 119.1 | 205.5 | 214.4 | 235.3 | 241.2 | 259.1 | 256.1 | 235.3 | 137.0 | 140.0 |
| 87.5° | 26.8 | 32.8 | 59.6 | 44.7 | 50.6 | 44.7 | 59.6 | 83.4 | 86.4 | 47.7 | 38.7 |
| 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)