

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: STREETWORKS

Report Number: P457992

Luminaire Tested: **GLAN-SA9B-827-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9B-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39575 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

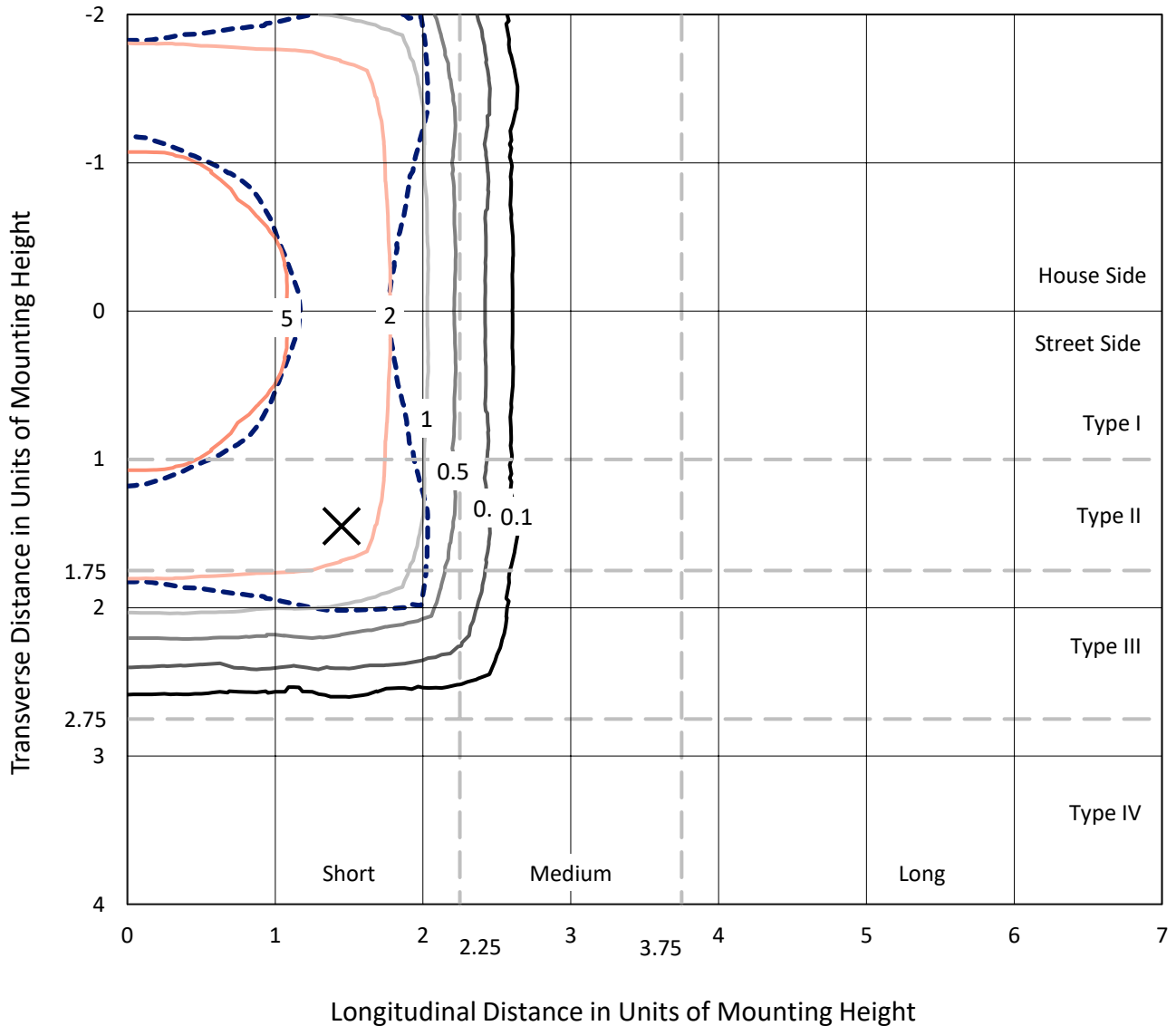
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

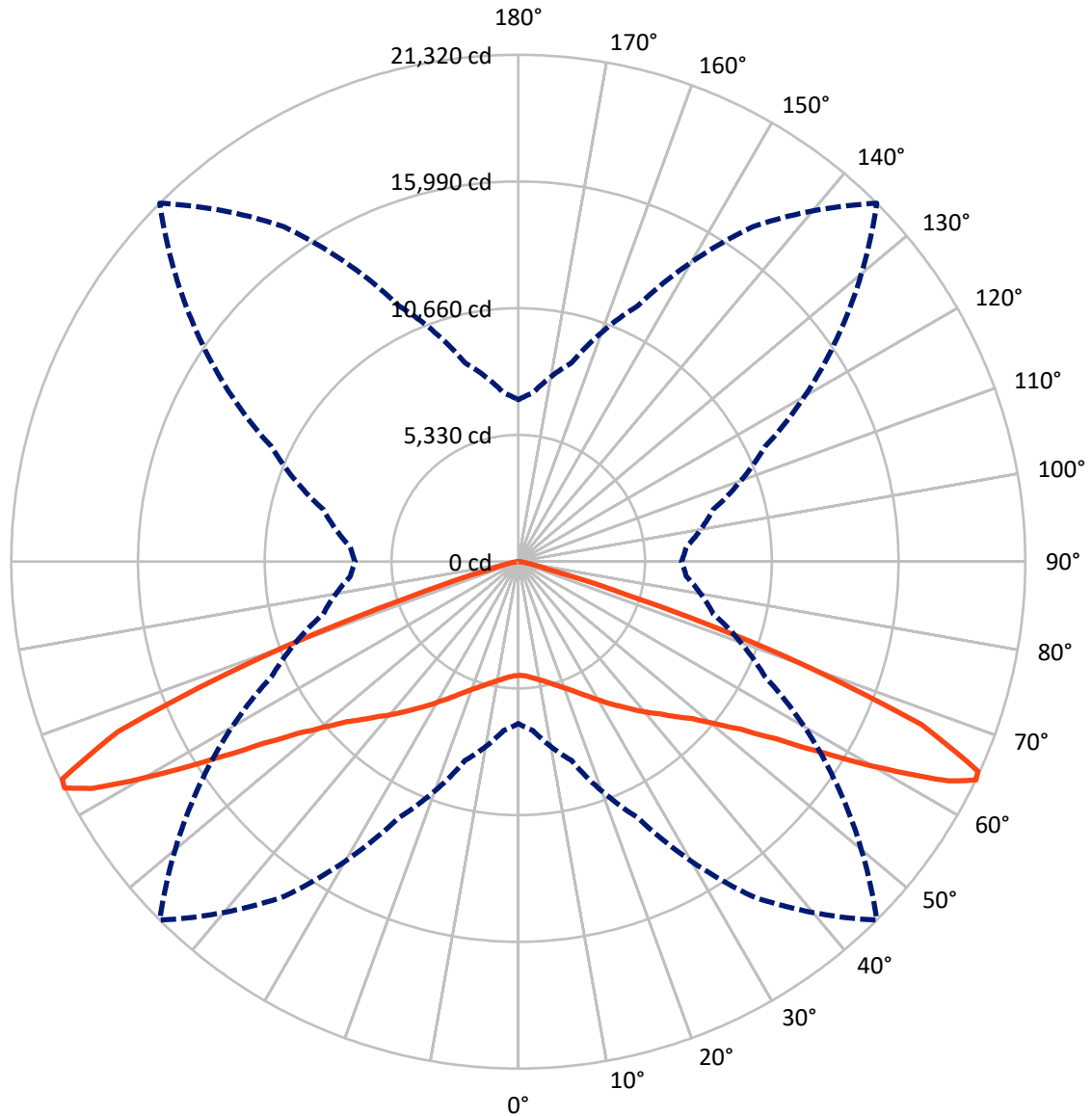
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 19787.5 | 0.0 | 19787.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 19787.5 | 0.0 | 19787.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 39575.0 | 0.0 | 39575.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 469.9 | 1.2 |
| 10°-20° | 1515.8 | 3.8 |
| 20°-30° | 2864.5 | 7.2 |
| 30°-40° | 4743.9 | 12.0 |
| 40°-50° | 7405.9 | 18.7 |
| 50°-60° | 11449.4 | 28.9 |
| 60°-70° | 9872.7 | 24.9 |
| 70°-80° | 1118.8 | 2.8 |
| 80°-90° | 134.0 | 0.3 |
| 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° | 39575.0 | 100.0 |
| 0°-180° | 39575.0 | 100.0 |

Coefficient of Utilization



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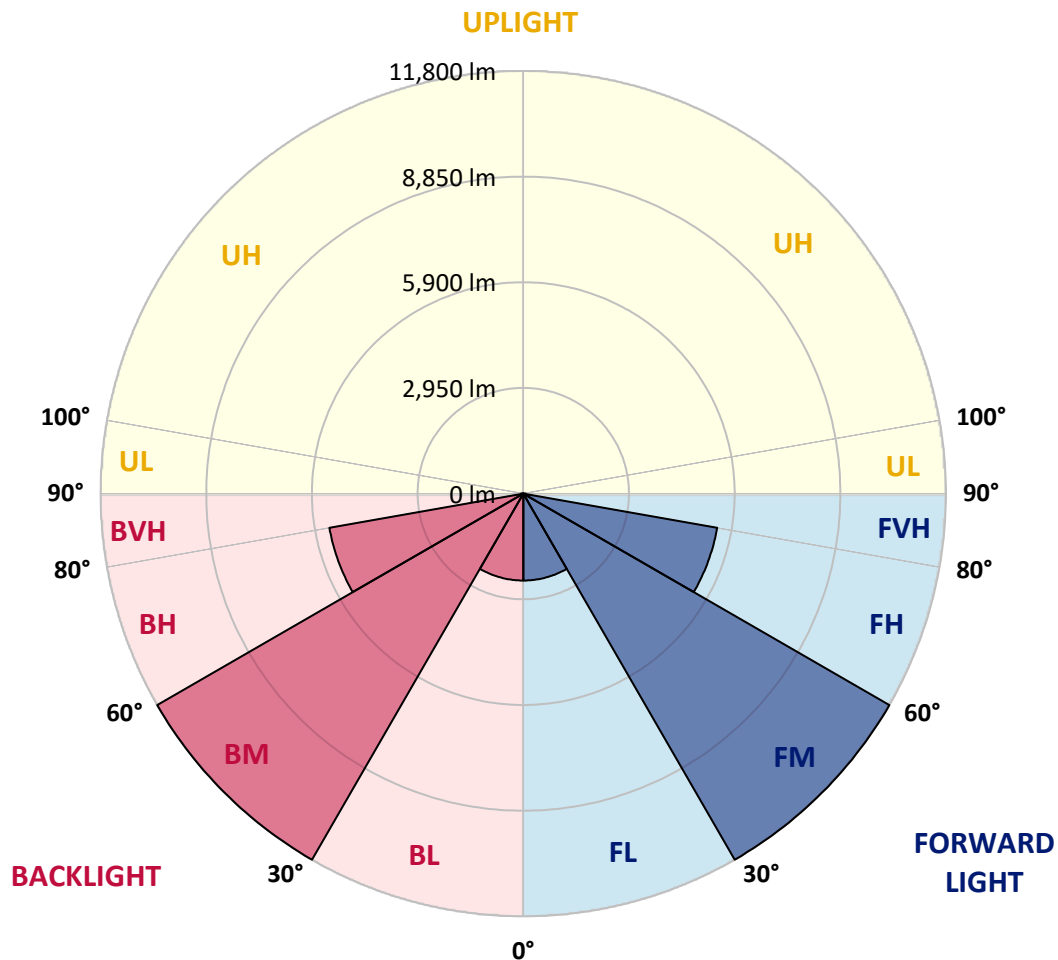
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2425.1 | 6.1 | | | |
| FM | (30°-60°) | 11799.6 | 29.8 | | | |
| FH | (60°-80°) | 5495.8 | 13.9 | | | G3/7500 |
| FVH | (80°-90°) | 67.0 | 0.2 | | | G1/100 |
| BL | (0°-30°) | 2425.1 | 6.1 | B3/2500 | | |
| BM | (30°-60°) | 11799.6 | 29.8 | B5 | | |
| BH | (60°-80°) | 5495.8 | 13.9 | B5 | | G3/7500 |
| BVH | (80°-90°) | 67.0 | 0.2 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4783.3 | 4783.3 | 4783.3 | 4783.3 | 4783.3 | 4783.3 | 4783.3 | 4783.3 | 4783.3 | 4783.3 | 4783.3 |
| 2.5° | 4802.2 | 4812.6 | 4804.3 | 4802.2 | 4800.1 | 4800.1 | 4800.1 | 4802.2 | 4810.6 | 4816.8 | 4812.6 |
| 5° | 4863.0 | 4871.3 | 4867.1 | 4865.1 | 4863.0 | 4865.1 | 4860.9 | 4858.8 | 4865.1 | 4865.1 | 4863.0 |
| 7.5° | 4938.4 | 4948.9 | 4944.7 | 4948.9 | 4951.0 | 4953.1 | 4942.6 | 4934.2 | 4932.1 | 4938.4 | 4934.2 |
| 10° | 5041.1 | 5049.5 | 5051.6 | 5053.7 | 5057.9 | 5055.8 | 5043.2 | 5028.5 | 5026.5 | 5024.4 | 5022.3 |
| 12.5° | 5156.4 | 5162.7 | 5164.8 | 5173.2 | 5179.5 | 5181.6 | 5166.9 | 5154.3 | 5133.4 | 5137.5 | 5129.2 |
| 15° | 5286.4 | 5298.9 | 5296.8 | 5309.4 | 5326.2 | 5330.4 | 5315.7 | 5294.8 | 5275.9 | 5265.4 | 5259.1 |
| 17.5° | 5445.7 | 5454.1 | 5449.9 | 5462.4 | 5483.4 | 5493.9 | 5481.3 | 5454.1 | 5435.2 | 5412.1 | 5399.6 |
| 20° | 5634.3 | 5649.0 | 5653.2 | 5653.2 | 5672.1 | 5682.5 | 5663.7 | 5655.3 | 5625.9 | 5609.2 | 5598.7 |
| 22.5° | 5848.1 | 5854.4 | 5867.0 | 5879.6 | 5898.4 | 5894.2 | 5887.9 | 5875.4 | 5848.1 | 5833.5 | 5816.7 |
| 25° | 6089.2 | 6095.5 | 6126.9 | 6154.2 | 6160.4 | 6156.3 | 6147.9 | 6141.6 | 6116.4 | 6082.9 | 6070.3 |
| 27.5° | 6370.1 | 6382.6 | 6424.6 | 6449.7 | 6449.7 | 6451.8 | 6435.0 | 6456.0 | 6401.5 | 6361.7 | 6357.5 |
| 30° | 6722.2 | 6730.6 | 6766.2 | 6791.4 | 6778.8 | 6768.3 | 6764.1 | 6785.1 | 6726.4 | 6655.1 | 6638.4 |
| 32.5° | 7070.2 | 7099.5 | 7130.9 | 7185.4 | 7141.4 | 7122.6 | 7118.4 | 7133.0 | 7066.0 | 6986.3 | 6963.3 |
| 35° | 7443.3 | 7464.2 | 7522.9 | 7569.0 | 7529.2 | 7485.2 | 7504.0 | 7550.2 | 7470.5 | 7363.6 | 7359.4 |
| 37.5° | 7856.2 | 7875.1 | 7950.5 | 7998.7 | 7969.4 | 7893.9 | 7925.4 | 7979.9 | 7900.2 | 7768.2 | 7740.9 |
| 40° | 8285.9 | 8325.7 | 8420.0 | 8470.3 | 8422.1 | 8321.5 | 8380.2 | 8438.9 | 8367.6 | 8214.6 | 8153.8 |
| 42.5° | 8768.0 | 8830.9 | 8967.1 | 8992.3 | 8900.0 | 8763.8 | 8866.5 | 8960.8 | 8910.5 | 8734.5 | 8711.4 |
| 45° | 9331.8 | 9369.6 | 9537.3 | 9591.8 | 9463.9 | 9294.1 | 9422.0 | 9593.9 | 9556.1 | 9352.8 | 9308.8 |
| 47.5° | 9962.8 | 9998.4 | 10172.4 | 10254.1 | 10092.7 | 9864.3 | 10094.8 | 10319.1 | 10296.1 | 10078.1 | 10057.1 |
| 50° | 10709.0 | 10717.4 | 10958.4 | 11050.6 | 10889.2 | 10692.2 | 10897.6 | 11176.4 | 11084.2 | 10805.4 | 10801.2 |
| 52.5° | 11526.5 | 11536.9 | 11840.9 | 12019.0 | 11928.9 | 11706.7 | 11949.9 | 12119.7 | 11884.9 | 11520.2 | 11492.9 |
| 55° | 12234.9 | 12287.3 | 12702.4 | 13176.1 | 13299.8 | 13138.4 | 13211.7 | 13132.1 | 12553.6 | 12042.1 | 11962.5 |
| 57.5° | 12524.2 | 12626.9 | 13257.8 | 14142.4 | 14947.3 | 15186.3 | 14620.3 | 13861.5 | 12819.8 | 12096.6 | 12019.0 |
| 60° | 11817.8 | 11928.9 | 12907.8 | 14586.8 | 16641.0 | 17678.5 | 16087.6 | 13985.2 | 12214.0 | 11197.4 | 11075.8 |
| 62.5° | 9463.9 | 9495.3 | 10935.4 | 13540.8 | 17628.2 | 20315.4 | 16705.9 | 12930.9 | 10451.2 | 9069.8 | 9021.6 |
| 64° | 6810.2 | 7133.0 | 8659.0 | 11872.3 | 17196.4 | 21319.5 | 16349.6 | 11453.1 | 8489.2 | 7091.1 | 6864.7 |
| 65° | 5093.5 | 5181.6 | 6980.0 | 10138.8 | 16435.5 | 21244.0 | 15657.9 | 10040.3 | 7030.3 | 5426.8 | 5175.3 |
| 67.5° | 1924.2 | 1934.7 | 2576.1 | 5053.7 | 11700.4 | 18278.0 | 11949.9 | 5462.4 | 2961.8 | 2142.2 | 2064.7 |
| 70° | 798.6 | 813.3 | 945.3 | 1699.9 | 5028.5 | 11736.1 | 5762.2 | 1970.3 | 1083.7 | 878.3 | 865.7 |
| 72.5° | 584.8 | 593.2 | 633.0 | 754.6 | 1546.9 | 4818.9 | 1894.9 | 836.3 | 635.1 | 568.0 | 561.8 |
| 75° | 459.0 | 463.2 | 492.6 | 555.5 | 721.1 | 1335.2 | 788.1 | 574.3 | 484.2 | 436.0 | 431.8 |
| 77.5° | 350.0 | 360.5 | 381.5 | 423.4 | 484.2 | 633.0 | 521.9 | 429.7 | 373.1 | 333.3 | 327.0 |
| 80° | 241.1 | 253.6 | 293.5 | 310.2 | 324.9 | 410.8 | 356.3 | 324.9 | 291.4 | 243.1 | 228.5 |
| 82.5° | 148.8 | 157.2 | 197.0 | 211.7 | 205.4 | 230.6 | 228.5 | 232.7 | 207.5 | 150.9 | 140.4 |
| 85° | 77.6 | 81.7 | 106.9 | 111.1 | 102.7 | 94.3 | 117.4 | 136.2 | 127.9 | 85.9 | 83.8 |
| 87.5° | 16.8 | 18.9 | 23.1 | 21.0 | 23.1 | 23.1 | 29.3 | 44.0 | 46.1 | 29.3 | 27.2 |
| 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)