

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: P529838

Luminaire Tested: **GLAN-SA5A-735-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5A-735-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18099 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

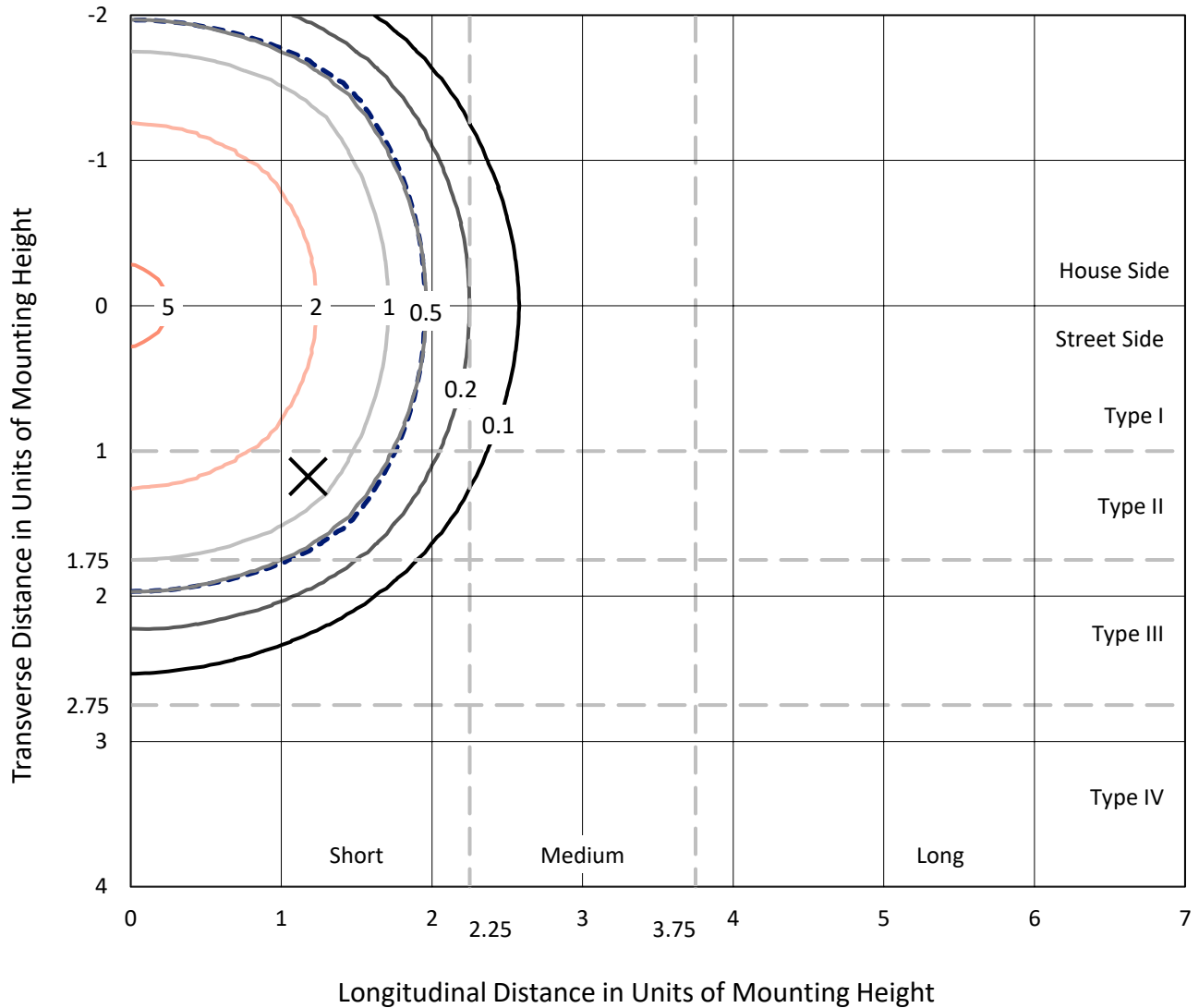
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

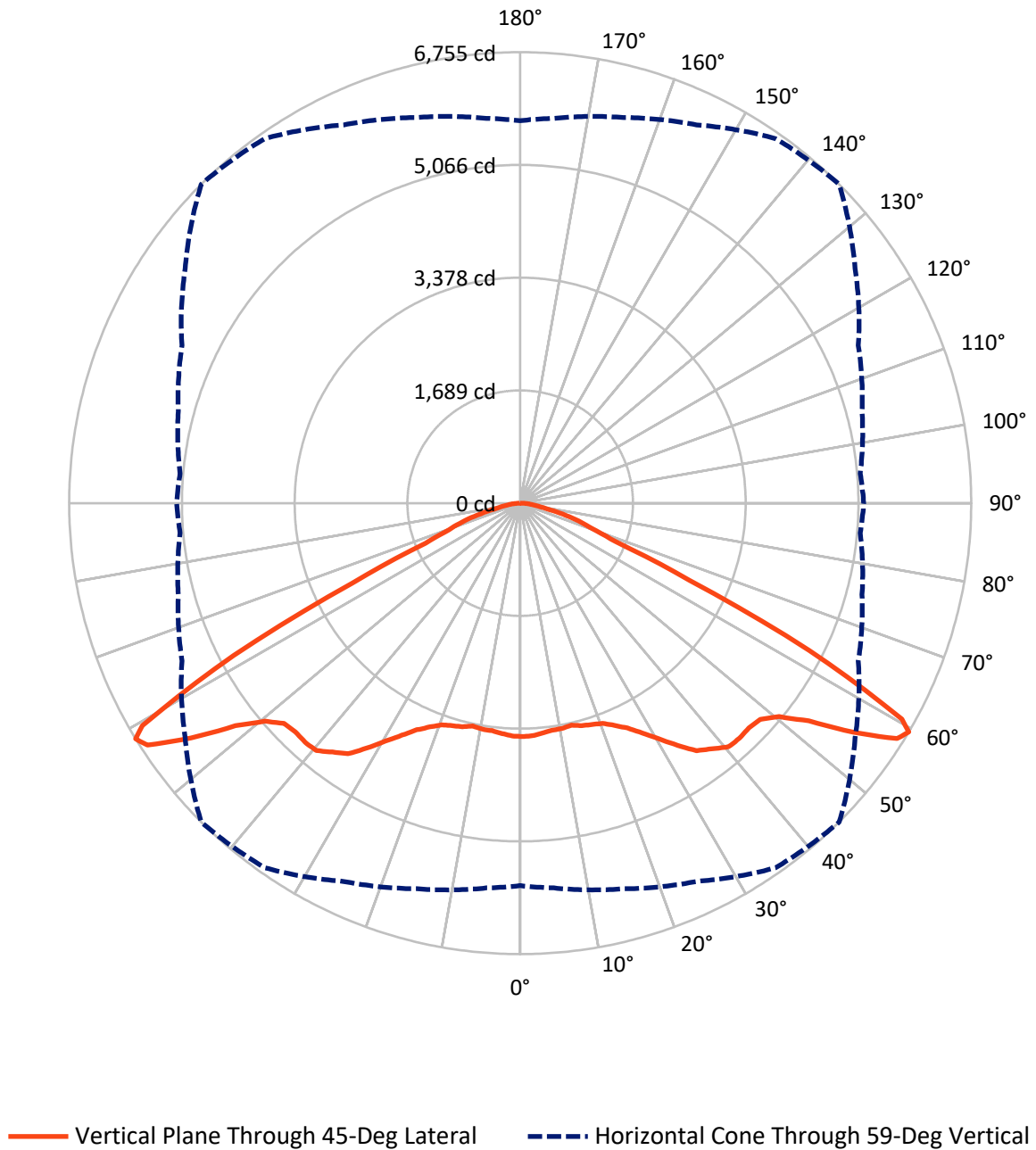
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9049.5 | 0.0 | 9049.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9049.5 | 0.0 | 9049.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 18099.0 | 0.0 | 18099.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 329.5 | 1.8 |
| 10°-20° | 980.0 | 5.4 |
| 20°-30° | 1711.2 | 9.5 |
| 30°-40° | 2733.1 | 15.1 |
| 40°-50° | 3723.0 | 20.6 |
| 50°-60° | 5034.5 | 27.8 |
| 60°-70° | 2760.9 | 15.3 |
| 70°-80° | 706.3 | 3.9 |
| 80°-90° | 120.5 | 0.7 |
| 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° | 18099.0 | 100.0 |
| 0°-180° | 18099.0 | 100.0 |

Coefficient of Utilization

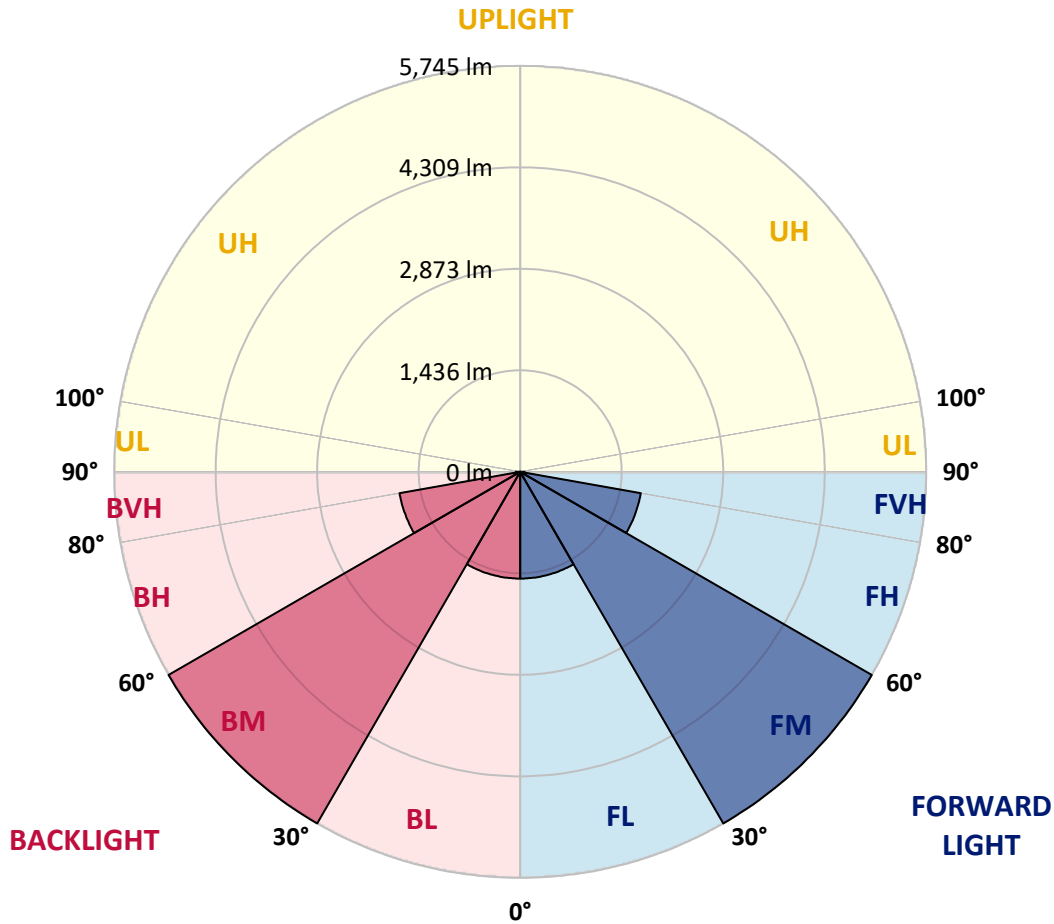


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1510.4 | 8.3 | | | |
| FM (30°-60°) | 5745.3 | 31.7 | | | |
| FH (60°-80°) | 1733.6 | 9.6 | | | G1/1800 |
| FVH (80°-90°) | 60.2 | 0.3 | | | G1/100 |
| BL (0°-30°) | 1510.4 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 5745.3 | 31.7 | B4/8500 | | |
| BH (60°-80°) | 1733.6 | 9.6 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 60.2 | 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° | 3495.9 | 3495.9 | 3495.9 | 3495.9 | 3495.9 | 3495.9 | 3495.9 | 3495.9 | 3495.9 | 3495.9 | 3495.9 |
| 2.5° | 3475.0 | 3500.5 | 3481.9 | 3498.2 | 3495.9 | 3488.9 | 3477.3 | 3470.3 | 3461.1 | 3475.0 | 3451.8 |
| 5° | 3461.1 | 3481.9 | 3502.8 | 3475.0 | 3475.0 | 3461.1 | 3454.1 | 3440.2 | 3440.2 | 3437.9 | 3435.5 |
| 7.5° | 3484.3 | 3463.4 | 3454.1 | 3458.7 | 3463.4 | 3433.2 | 3454.1 | 3426.3 | 3403.1 | 3419.3 | 3437.9 |
| 10° | 3463.4 | 3472.7 | 3437.9 | 3454.1 | 3428.6 | 3433.2 | 3419.3 | 3437.9 | 3412.4 | 3412.4 | 3412.4 |
| 12.5° | 3484.3 | 3458.7 | 3470.3 | 3458.7 | 3451.8 | 3412.4 | 3430.9 | 3410.0 | 3407.7 | 3430.9 | 3410.0 |
| 15° | 3526.0 | 3484.3 | 3475.0 | 3451.8 | 3458.7 | 3458.7 | 3440.2 | 3442.5 | 3417.0 | 3430.9 | 3435.5 |
| 17.5° | 3512.1 | 3488.9 | 3481.9 | 3454.1 | 3477.3 | 3484.3 | 3449.5 | 3426.3 | 3442.5 | 3440.2 | 3437.9 |
| 20° | 3523.7 | 3533.0 | 3526.0 | 3530.7 | 3539.9 | 3521.4 | 3488.9 | 3456.4 | 3435.5 | 3465.7 | 3463.4 |
| 22.5° | 3597.9 | 3588.7 | 3584.0 | 3579.4 | 3595.6 | 3614.2 | 3570.1 | 3519.1 | 3519.1 | 3539.9 | 3549.2 |
| 25° | 3658.2 | 3655.9 | 3653.6 | 3674.5 | 3730.2 | 3730.2 | 3674.5 | 3609.5 | 3593.3 | 3607.2 | 3595.6 |
| 27.5° | 3746.4 | 3771.9 | 3762.6 | 3799.7 | 3880.9 | 3899.5 | 3825.3 | 3748.7 | 3704.6 | 3688.4 | 3709.3 |
| 30° | 3948.2 | 3918.1 | 3925.0 | 3964.5 | 4036.4 | 4096.7 | 3983.0 | 3901.8 | 3841.5 | 3839.2 | 3848.5 |
| 32.5° | 4082.8 | 4106.0 | 4126.8 | 4163.9 | 4277.6 | 4324.0 | 4187.1 | 4054.9 | 4017.8 | 3996.9 | 4003.9 |
| 35° | 4351.8 | 4331.0 | 4326.3 | 4363.4 | 4477.1 | 4553.7 | 4382.0 | 4266.0 | 4217.3 | 4263.7 | 4263.7 |
| 37.5° | 4607.0 | 4549.0 | 4505.0 | 4553.7 | 4658.1 | 4667.3 | 4521.2 | 4458.6 | 4433.0 | 4486.4 | 4484.1 |
| 40° | 4727.6 | 4723.0 | 4620.9 | 4648.8 | 4788.0 | 4801.9 | 4665.0 | 4590.8 | 4586.1 | 4655.7 | 4725.3 |
| 42.5° | 4852.9 | 4808.8 | 4706.8 | 4725.3 | 4811.2 | 4815.8 | 4685.9 | 4665.0 | 4716.0 | 4783.3 | 4788.0 |
| 45° | 4873.8 | 4836.7 | 4771.7 | 4725.3 | 4788.0 | 4801.9 | 4725.3 | 4739.2 | 4743.9 | 4825.1 | 4825.1 |
| 47.5° | 4915.5 | 4910.9 | 4873.8 | 4839.0 | 4850.6 | 4839.0 | 4790.3 | 4811.2 | 4880.8 | 4920.2 | 4901.6 |
| 50° | 5031.5 | 4982.8 | 5019.9 | 4989.8 | 4992.1 | 5024.6 | 4980.5 | 5001.4 | 4987.5 | 4952.7 | 4929.5 |
| 52.5° | 5286.7 | 5263.5 | 5296.0 | 5316.9 | 5340.1 | 5414.3 | 5363.3 | 5251.9 | 5147.5 | 5054.7 | 5052.4 |
| 55° | 5660.2 | 5676.4 | 5739.1 | 5845.8 | 5936.2 | 6054.5 | 5808.7 | 5541.9 | 5374.9 | 5228.7 | 5238.0 |
| 57.5° | 6012.8 | 6001.2 | 6087.0 | 6330.6 | 6595.0 | 6655.4 | 6172.9 | 5792.4 | 5521.0 | 5428.2 | 5388.8 |
| 59° | 5729.8 | 5785.5 | 5980.3 | 6251.7 | 6667.0 | 6755.1 | 6124.1 | 5588.3 | 5300.6 | 5112.7 | 5145.2 |
| 60° | 5284.4 | 5305.3 | 5479.2 | 5857.4 | 6418.7 | 6569.5 | 5797.1 | 5272.8 | 4890.0 | 4781.0 | 4829.7 |
| 62.5° | 3734.8 | 3718.6 | 3843.8 | 4152.4 | 4655.7 | 4859.9 | 4310.1 | 3941.3 | 3700.0 | 3579.4 | 3607.2 |
| 65° | 1985.7 | 2059.9 | 2111.0 | 2303.5 | 2570.3 | 2786.0 | 2558.7 | 2398.6 | 2264.1 | 2164.3 | 2162.0 |
| 67.5° | 1340.8 | 1331.5 | 1343.1 | 1387.2 | 1477.7 | 1538.0 | 1533.4 | 1452.2 | 1440.6 | 1422.0 | 1442.9 |
| 70° | 1129.7 | 1125.1 | 1104.2 | 1104.2 | 1122.8 | 1136.7 | 1152.9 | 1162.2 | 1180.8 | 1203.9 | 1201.6 |
| 72.5° | 916.3 | 904.7 | 890.8 | 883.8 | 907.0 | 914.0 | 934.9 | 944.1 | 960.4 | 958.1 | 978.9 |
| 75° | 605.5 | 605.5 | 621.7 | 640.3 | 647.2 | 661.1 | 663.4 | 691.3 | 691.3 | 695.9 | 677.4 |
| 77.5° | 338.7 | 329.4 | 341.0 | 359.6 | 375.8 | 401.3 | 426.8 | 447.7 | 459.3 | 454.7 | 454.7 |
| 80° | 197.2 | 197.2 | 208.8 | 229.7 | 250.5 | 273.7 | 292.3 | 308.5 | 320.1 | 315.5 | 306.2 |
| 82.5° | 122.9 | 122.9 | 134.5 | 155.4 | 171.7 | 185.6 | 211.1 | 232.0 | 245.9 | 241.3 | 229.7 |
| 85° | 62.6 | 62.6 | 76.6 | 90.5 | 111.3 | 120.6 | 118.3 | 109.0 | 106.7 | 95.1 | 95.1 |
| 87.5° | 16.2 | 16.2 | 23.2 | 25.5 | 20.9 | 23.2 | 23.2 | 23.2 | 23.2 | 23.2 | 25.5 |
| 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)