

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: P654355

Luminaire Tested: **GLAN-SA5B-840-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P654355
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-SA5B-840-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA 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: 20331.2 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

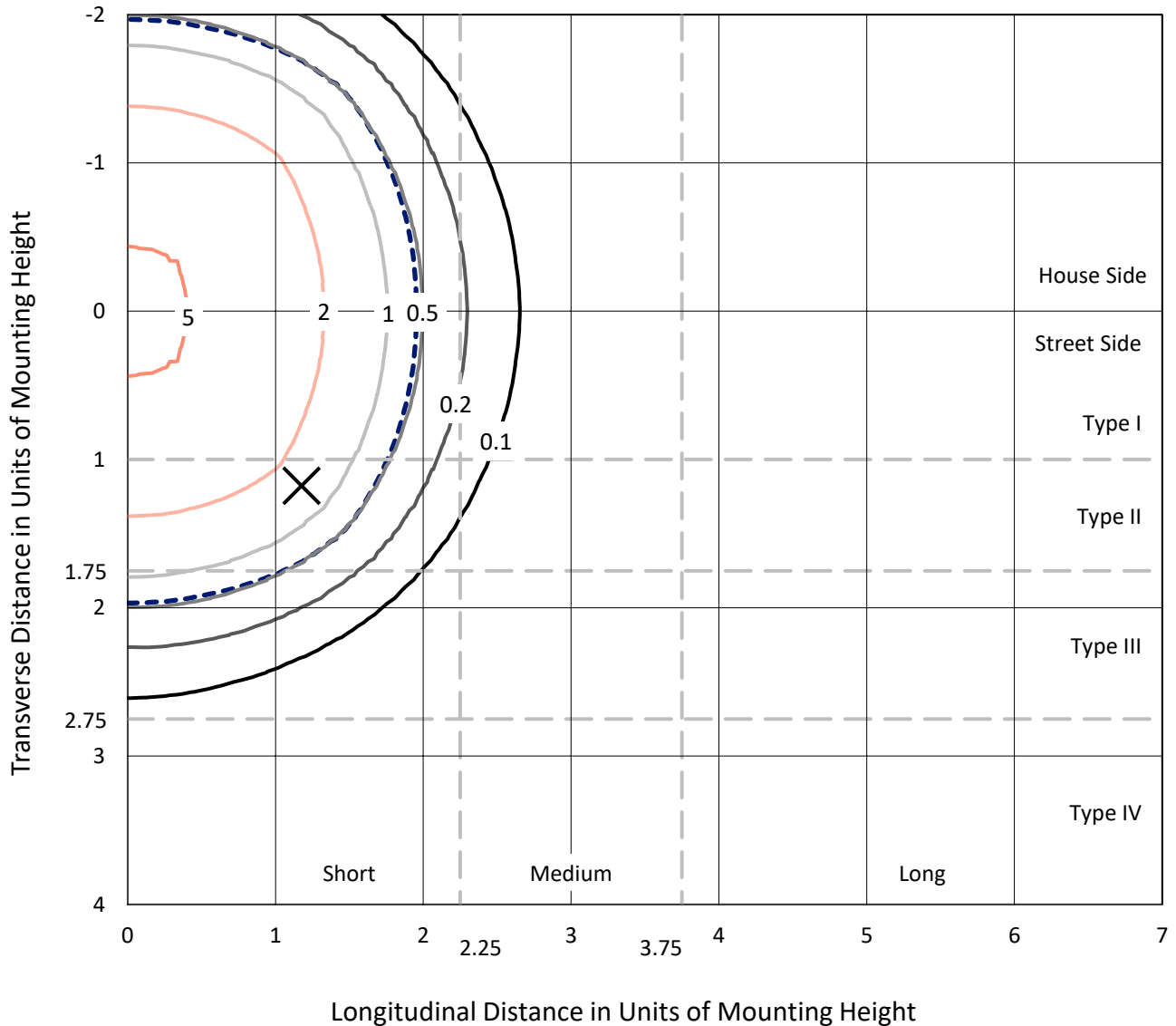
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

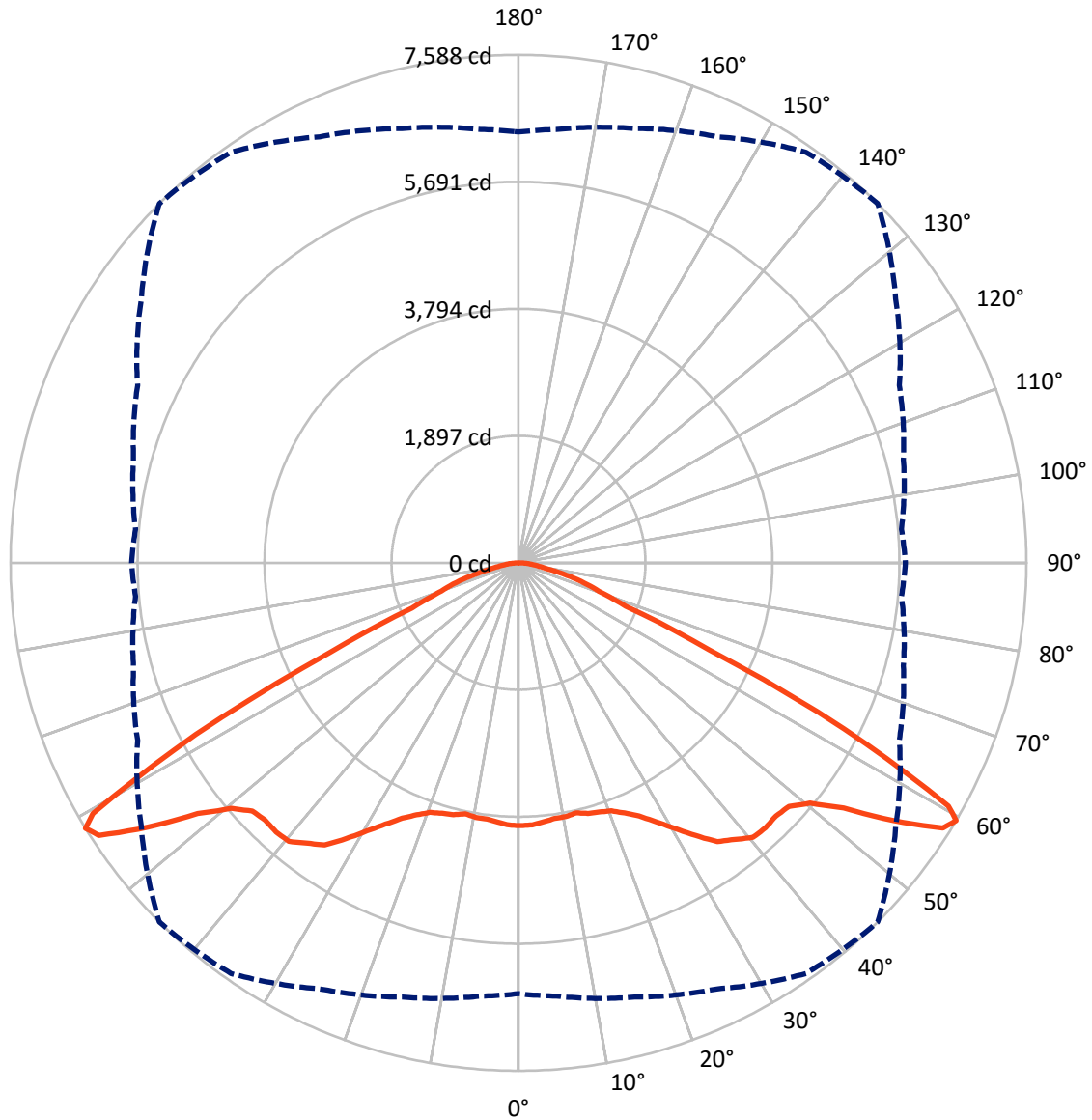
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10165.6 | 0.0 | 10165.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 10165.6 | 0.0 | 10165.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 20331.2 | 0.0 | 20331.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 370.2 | 1.8 |
| 10°-20° | 1100.9 | 5.4 |
| 20°-30° | 1922.3 | 9.5 |
| 30°-40° | 3070.1 | 15.1 |
| 40°-50° | 4182.1 | 20.6 |
| 50°-60° | 5655.4 | 27.8 |
| 60°-70° | 3101.4 | 15.3 |
| 70°-80° | 793.4 | 3.9 |
| 80°-90° | 135.3 | 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° | 20331.2 | 100.0 |
| 0°-180° | 20331.2 | 100.0 |

Coefficient of Utilization



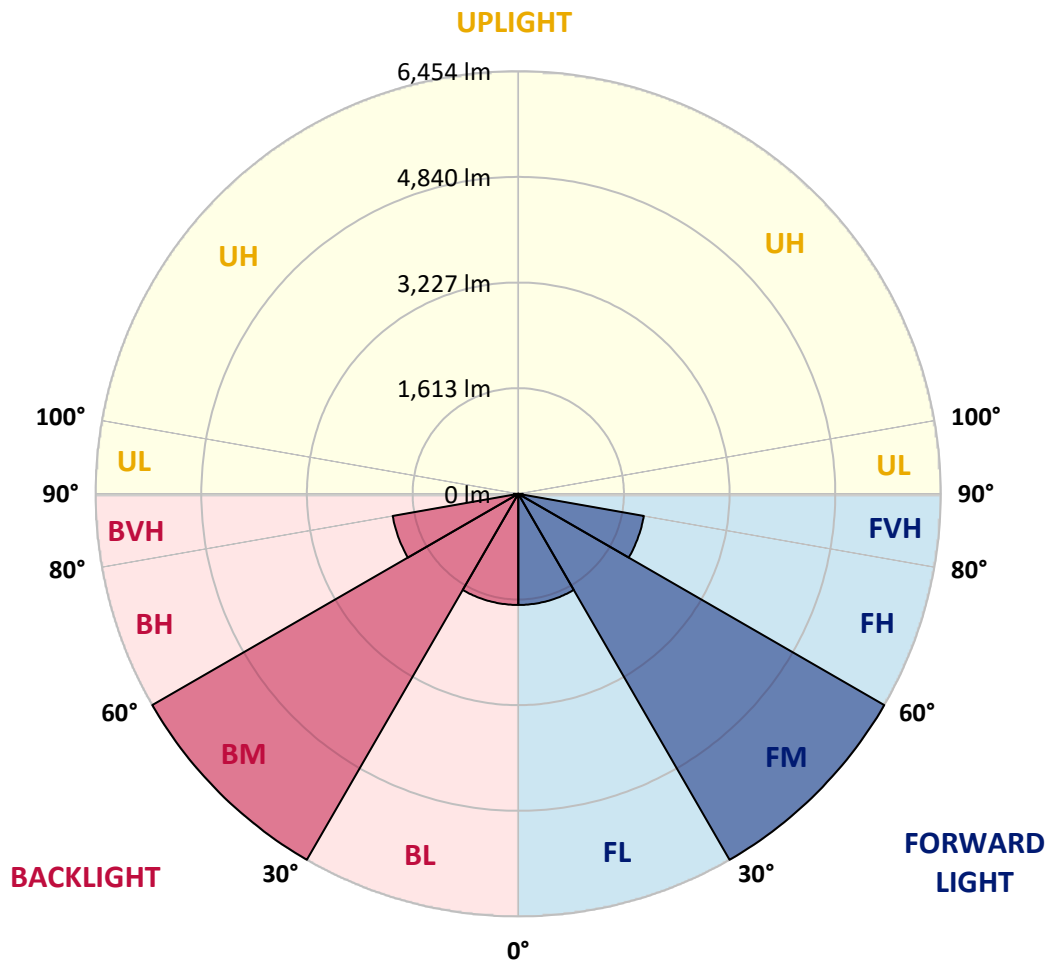
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1696.7 | 8.3 | | | |
| FM (30°-60°) | 6453.8 | 31.7 | | | |
| FH (60°-80°) | 1947.4 | 9.6 | | | G2/5000 |
| FVH (80°-90°) | 67.7 | 0.3 | | | G1/100 |
| BL (0°-30°) | 1696.7 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 6453.8 | 31.7 | B4/8500 | | |
| BH (60°-80°) | 1947.4 | 9.6 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 67.7 | 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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3927.0 | 3927.0 | 3927.0 | 3927.0 | 3927.0 | 3927.0 | 3927.0 | 3927.0 | 3927.0 | 3927.0 | 3927.0 |
| 2.5° | 3903.6 | 3932.3 | 3911.4 | 3929.7 | 3927.0 | 3919.2 | 3906.2 | 3898.4 | 3887.9 | 3903.6 | 3877.5 |
| 5° | 3887.9 | 3911.4 | 3934.8 | 3903.6 | 3903.6 | 3887.9 | 3880.1 | 3864.5 | 3864.5 | 3861.9 | 3859.3 |
| 7.5° | 3914.0 | 3890.6 | 3880.1 | 3885.3 | 3890.6 | 3856.7 | 3880.1 | 3848.8 | 3822.8 | 3841.0 | 3861.9 |
| 10° | 3890.6 | 3901.0 | 3861.9 | 3880.1 | 3851.4 | 3856.7 | 3841.0 | 3861.9 | 3833.2 | 3833.2 | 3833.2 |
| 12.5° | 3914.0 | 3885.3 | 3898.4 | 3885.3 | 3877.5 | 3833.2 | 3854.1 | 3830.6 | 3828.0 | 3854.1 | 3830.6 |
| 15° | 3960.9 | 3914.0 | 3903.6 | 3877.5 | 3885.3 | 3885.3 | 3864.5 | 3867.1 | 3838.4 | 3854.1 | 3859.3 |
| 17.5° | 3945.2 | 3919.2 | 3911.4 | 3880.1 | 3906.2 | 3914.0 | 3874.9 | 3848.8 | 3867.1 | 3864.5 | 3861.9 |
| 20° | 3958.3 | 3968.7 | 3960.9 | 3966.1 | 3976.5 | 3955.6 | 3919.2 | 3882.7 | 3859.3 | 3893.2 | 3890.6 |
| 22.5° | 4041.7 | 4031.2 | 4026.0 | 4020.8 | 4039.1 | 4059.9 | 4010.4 | 3953.0 | 3953.0 | 3976.5 | 3986.9 |
| 25° | 4109.4 | 4106.9 | 4104.2 | 4127.6 | 4190.2 | 4190.2 | 4127.6 | 4054.7 | 4036.5 | 4052.1 | 4039.1 |
| 27.5° | 4208.4 | 4237.1 | 4226.7 | 4268.4 | 4359.6 | 4380.4 | 4297.0 | 4211.1 | 4161.5 | 4143.3 | 4166.7 |
| 30° | 4435.2 | 4401.3 | 4409.1 | 4453.4 | 4534.2 | 4602.0 | 4474.2 | 4383.0 | 4315.3 | 4312.6 | 4323.1 |
| 32.5° | 4586.3 | 4612.4 | 4635.8 | 4677.5 | 4805.2 | 4857.3 | 4703.5 | 4555.0 | 4513.3 | 4489.8 | 4497.7 |
| 35° | 4888.6 | 4865.1 | 4859.9 | 4901.6 | 5029.3 | 5115.3 | 4922.5 | 4792.2 | 4737.4 | 4789.6 | 4789.6 |
| 37.5° | 5175.2 | 5110.1 | 5060.5 | 5115.3 | 5232.5 | 5243.0 | 5078.8 | 5008.4 | 4979.8 | 5039.7 | 5037.1 |
| 40° | 5310.7 | 5305.5 | 5190.8 | 5222.1 | 5378.4 | 5394.1 | 5240.4 | 5157.0 | 5151.8 | 5229.9 | 5308.1 |
| 42.5° | 5451.4 | 5401.9 | 5287.3 | 5308.1 | 5404.5 | 5409.7 | 5263.8 | 5240.4 | 5297.7 | 5373.2 | 5378.4 |
| 45° | 5474.9 | 5433.2 | 5360.2 | 5308.1 | 5378.4 | 5394.1 | 5308.1 | 5323.8 | 5329.0 | 5420.2 | 5420.2 |
| 47.5° | 5521.8 | 5516.5 | 5474.9 | 5435.8 | 5448.8 | 5435.8 | 5381.1 | 5404.5 | 5482.7 | 5527.0 | 5506.2 |
| 50° | 5652.1 | 5597.4 | 5639.1 | 5605.2 | 5607.8 | 5644.3 | 5594.8 | 5618.2 | 5602.6 | 5563.5 | 5537.4 |
| 52.5° | 5938.7 | 5912.7 | 5949.1 | 5972.6 | 5998.7 | 6082.0 | 6024.8 | 5899.6 | 5782.4 | 5678.2 | 5675.6 |
| 55° | 6358.3 | 6376.5 | 6446.9 | 6566.7 | 6668.4 | 6801.3 | 6525.1 | 6225.3 | 6037.7 | 5873.5 | 5884.0 |
| 57.5° | 6754.3 | 6741.3 | 6837.8 | 7111.3 | 7408.5 | 7476.2 | 6934.1 | 6506.8 | 6202.0 | 6097.7 | 6053.3 |
| 59° | 6436.4 | 6499.0 | 6717.9 | 7022.8 | 7489.2 | 7588.3 | 6879.5 | 6277.5 | 5954.4 | 5743.3 | 5779.8 |
| 60° | 5936.1 | 5959.6 | 6155.0 | 6579.7 | 7210.4 | 7379.8 | 6512.0 | 5923.1 | 5493.2 | 5370.6 | 5425.4 |
| 62.5° | 4195.4 | 4177.2 | 4317.9 | 4664.4 | 5229.9 | 5459.3 | 4841.6 | 4427.4 | 4156.3 | 4020.8 | 4052.1 |
| 65° | 2230.6 | 2314.0 | 2371.3 | 2587.6 | 2887.2 | 3129.6 | 2874.3 | 2694.5 | 2543.3 | 2431.2 | 2428.6 |
| 67.5° | 1506.1 | 1495.7 | 1508.8 | 1558.3 | 1660.0 | 1727.7 | 1722.5 | 1631.3 | 1618.3 | 1597.4 | 1620.9 |
| 70° | 1269.1 | 1263.9 | 1240.4 | 1240.4 | 1261.2 | 1276.9 | 1295.1 | 1305.6 | 1326.3 | 1352.4 | 1349.8 |
| 72.5° | 1029.3 | 1016.3 | 1000.6 | 992.8 | 1018.9 | 1026.7 | 1050.2 | 1060.6 | 1078.8 | 1076.2 | 1099.7 |
| 75° | 680.1 | 680.1 | 698.4 | 719.2 | 727.0 | 742.7 | 745.3 | 776.6 | 776.6 | 781.8 | 760.9 |
| 77.5° | 380.5 | 370.0 | 383.1 | 403.9 | 422.2 | 450.8 | 479.5 | 502.9 | 516.0 | 510.7 | 510.7 |
| 80° | 221.5 | 221.5 | 234.6 | 258.0 | 281.4 | 307.5 | 328.3 | 346.6 | 359.6 | 354.4 | 344.0 |
| 82.5° | 138.1 | 138.1 | 151.1 | 174.6 | 192.8 | 208.5 | 237.2 | 260.6 | 276.2 | 271.0 | 258.0 |
| 85° | 70.4 | 70.4 | 86.0 | 101.6 | 125.1 | 135.5 | 132.9 | 122.4 | 119.8 | 106.8 | 106.8 |
| 87.5° | 18.2 | 18.2 | 26.1 | 28.7 | 23.5 | 26.1 | 26.1 | 26.1 | 26.1 | 26.1 | 28.7 |
| 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)