

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: P532802

Luminaire Tested: **GALN-SA8B-722-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532802
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: McGRAW-EDISON
Catalog Number: GALN-SA8B-722-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2200K, 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: 28656 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

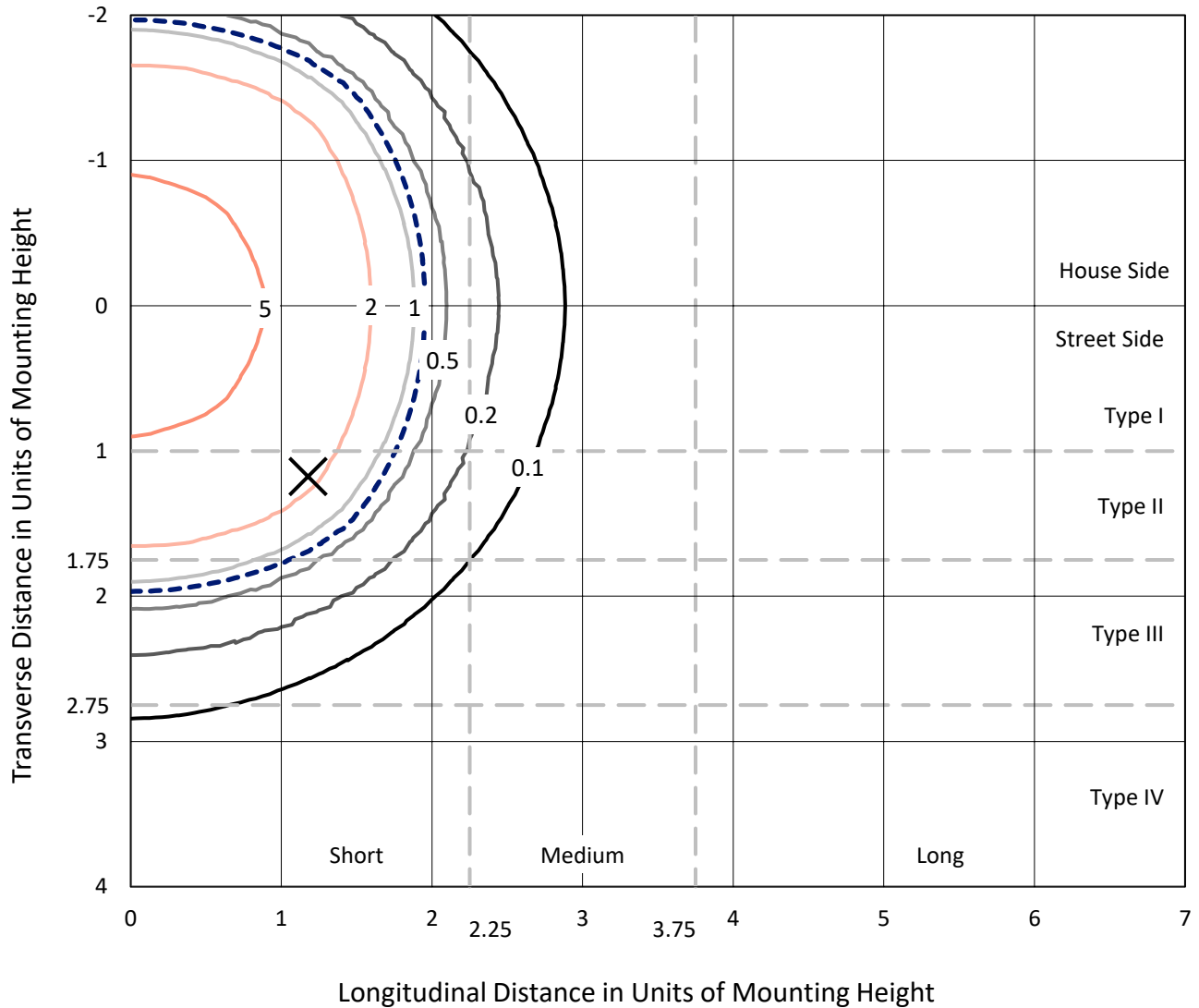
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

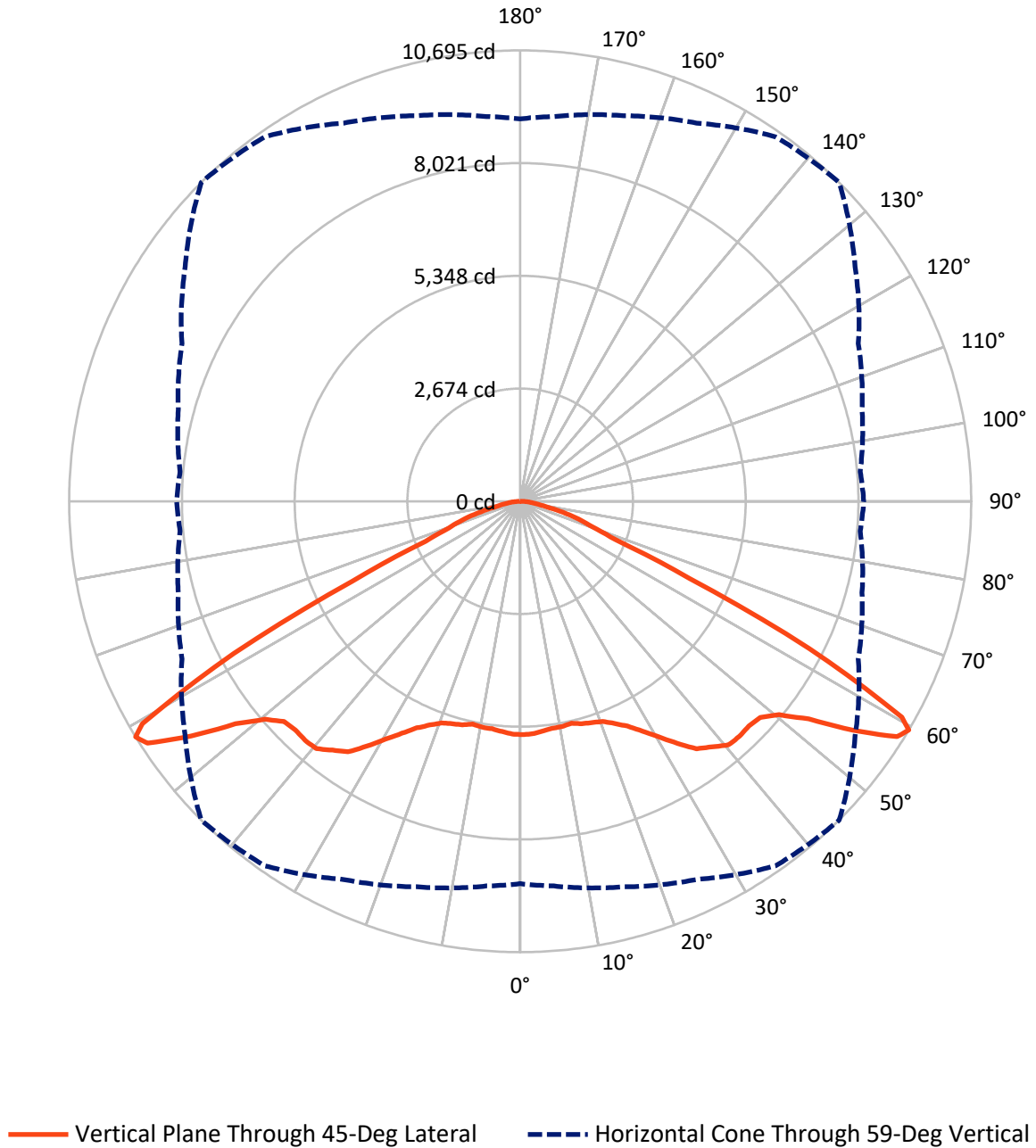
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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 | 14328.0 | 0.0 | 14328.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 14328.0 | 0.0 | 14328.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 28656.0 | 0.0 | 28656.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 521.8 | 1.8 |
| 10°-20° | 1551.7 | 5.4 |
| 20°-30° | 2709.4 | 9.5 |
| 30°-40° | 4327.2 | 15.1 |
| 40°-50° | 5894.6 | 20.6 |
| 50°-60° | 7971.0 | 27.8 |
| 60°-70° | 4371.3 | 15.3 |
| 70°-80° | 1118.3 | 3.9 |
| 80°-90° | 190.7 | 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° | 28656.0 | 100.0 |
| 0°-180° | 28656.0 | 100.0 |

Coefficient of Utilization



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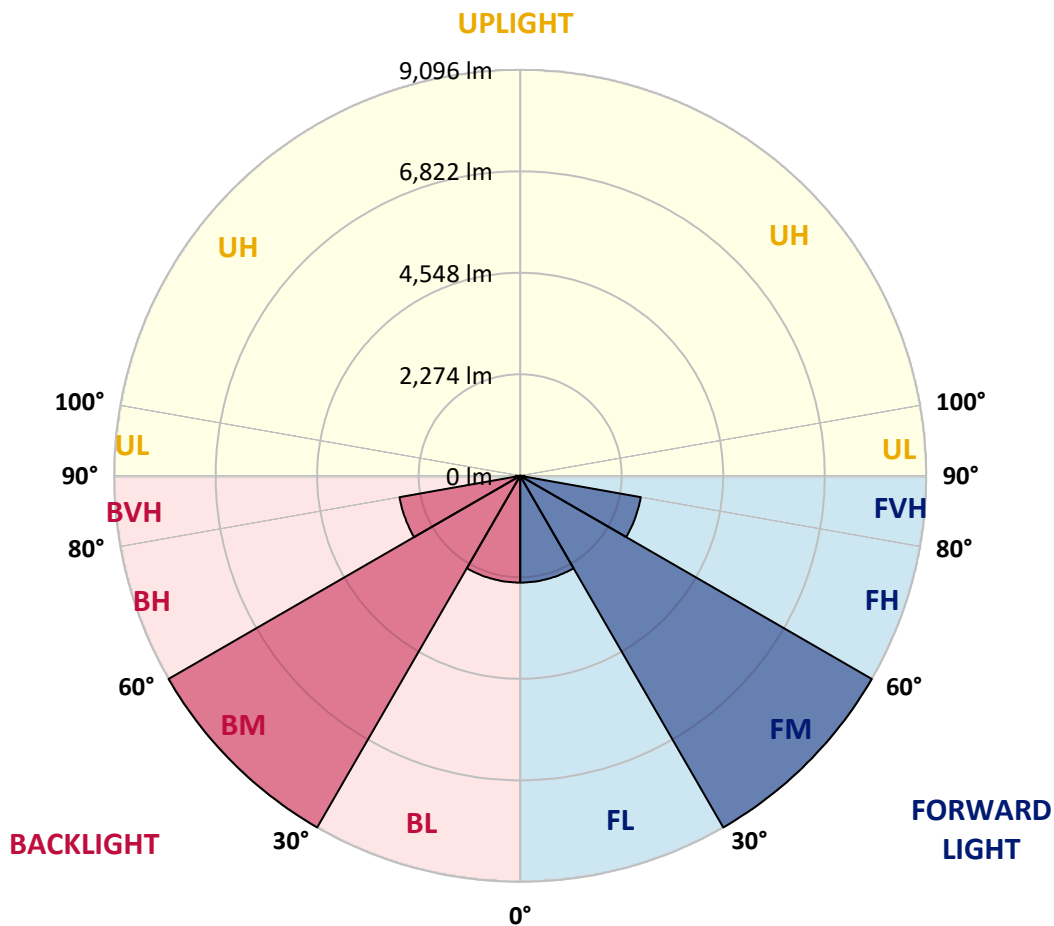
CATALOG NUMBER: GALN-SA8B-722-U-5WQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2391.4 | 8.3 | | | |
| FM (30°-60°) | 9096.4 | 31.7 | | | |
| FH (60°-80°) | 2744.8 | 9.6 | | | G2/5000 |
| FVH (80°-90°) | 95.4 | 0.3 | | | G1/100 |
| BL (0°-30°) | 2391.4 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 9096.4 | 31.7 | B5 | | |
| BH (60°-80°) | 2744.8 | 9.6 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 95.4 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|
| 0° | 5535.0 | 5535.0 | 5535.0 | 5535.0 | 5535.0 | 5535.0 | 5535.0 | 5535.0 | 5535.0 | 5535.0 | 5535.0 |
| 2.5° | 5501.9 | 5542.3 | 5512.9 | 5538.6 | 5535.0 | 5524.0 | 5505.6 | 5494.6 | 5479.9 | 5501.9 | 5465.2 |
| 5° | 5479.9 | 5512.9 | 5546.0 | 5501.9 | 5501.9 | 5479.9 | 5468.9 | 5446.8 | 5446.8 | 5443.1 | 5439.5 |
| 7.5° | 5516.6 | 5483.5 | 5468.9 | 5476.2 | 5483.5 | 5435.8 | 5468.9 | 5424.8 | 5388.1 | 5413.8 | 5443.1 |
| 10° | 5483.5 | 5498.2 | 5443.1 | 5468.9 | 5428.5 | 5435.8 | 5413.8 | 5443.1 | 5402.7 | 5402.7 | 5402.7 |
| 12.5° | 5516.6 | 5476.2 | 5494.6 | 5476.2 | 5465.2 | 5402.7 | 5432.1 | 5399.1 | 5395.4 | 5432.1 | 5399.1 |
| 15° | 5582.7 | 5516.6 | 5501.9 | 5465.2 | 5476.2 | 5476.2 | 5446.8 | 5450.5 | 5410.1 | 5432.1 | 5439.5 |
| 17.5° | 5560.7 | 5524.0 | 5512.9 | 5468.9 | 5505.6 | 5516.6 | 5461.5 | 5424.8 | 5450.5 | 5446.8 | 5443.1 |
| 20° | 5579.0 | 5593.7 | 5582.7 | 5590.1 | 5604.8 | 5575.4 | 5524.0 | 5472.5 | 5439.5 | 5487.2 | 5483.5 |
| 22.5° | 5696.6 | 5681.9 | 5674.5 | 5667.2 | 5692.9 | 5722.3 | 5652.5 | 5571.7 | 5571.7 | 5604.8 | 5619.4 |
| 25° | 5792.1 | 5788.4 | 5784.7 | 5817.8 | 5905.9 | 5905.9 | 5817.8 | 5714.9 | 5689.2 | 5711.3 | 5692.9 |
| 27.5° | 5931.6 | 5972.0 | 5957.3 | 6016.1 | 6144.7 | 6174.0 | 6056.5 | 5935.3 | 5865.5 | 5839.8 | 5872.9 |
| 30° | 6251.2 | 6203.4 | 6214.4 | 6276.9 | 6390.7 | 6486.2 | 6306.3 | 6177.7 | 6082.2 | 6078.5 | 6093.2 |
| 32.5° | 6464.2 | 6500.9 | 6534.0 | 6592.7 | 6772.7 | 6846.2 | 6629.5 | 6420.1 | 6361.4 | 6328.3 | 6339.3 |
| 35° | 6890.2 | 6857.2 | 6849.8 | 6908.6 | 7088.6 | 7209.8 | 6938.0 | 6754.4 | 6677.2 | 6750.7 | 6750.7 |
| 37.5° | 7294.3 | 7202.4 | 7132.7 | 7209.8 | 7375.1 | 7389.8 | 7158.4 | 7059.2 | 7018.8 | 7103.3 | 7099.6 |
| 40° | 7485.2 | 7477.9 | 7316.3 | 7360.4 | 7580.7 | 7602.8 | 7386.1 | 7268.5 | 7261.2 | 7371.4 | 7481.6 |
| 42.5° | 7683.6 | 7613.8 | 7452.2 | 7481.6 | 7617.5 | 7624.8 | 7419.1 | 7386.1 | 7466.9 | 7573.4 | 7580.7 |
| 45° | 7716.6 | 7657.9 | 7555.0 | 7481.6 | 7580.7 | 7602.8 | 7481.6 | 7503.6 | 7511.0 | 7639.5 | 7639.5 |
| 47.5° | 7782.7 | 7775.4 | 7716.6 | 7661.5 | 7679.9 | 7661.5 | 7584.4 | 7617.5 | 7727.7 | 7790.1 | 7760.7 |
| 50° | 7966.4 | 7889.3 | 7948.0 | 7900.3 | 7904.0 | 7955.4 | 7885.6 | 7918.6 | 7896.6 | 7841.5 | 7804.8 |
| 52.5° | 8370.4 | 8333.7 | 8385.1 | 8418.1 | 8454.9 | 8572.4 | 8491.6 | 8315.3 | 8150.0 | 8003.1 | 7999.4 |
| 55° | 8961.7 | 8987.4 | 9086.6 | 9255.6 | 9398.8 | 9586.1 | 9196.8 | 8774.4 | 8510.0 | 8278.6 | 8293.3 |
| 57.5° | 9520.0 | 9501.6 | 9637.5 | 10023.2 | 10441.9 | 10537.4 | 9773.4 | 9171.1 | 8741.4 | 8594.4 | 8532.0 |
| 59° | 9071.9 | 9160.1 | 9468.6 | 9898.3 | 10555.7 | 10695.3 | 9696.3 | 8847.9 | 8392.4 | 8094.9 | 8146.4 |
| 60° | 8366.7 | 8399.8 | 8675.2 | 9273.9 | 10162.7 | 10401.5 | 9178.4 | 8348.4 | 7742.3 | 7569.7 | 7646.9 |
| 62.5° | 5913.3 | 5887.6 | 6085.9 | 6574.4 | 7371.4 | 7694.6 | 6824.1 | 6240.2 | 5858.2 | 5667.2 | 5711.3 |
| 65° | 3144.0 | 3261.5 | 3342.3 | 3647.1 | 4069.5 | 4411.1 | 4051.1 | 3797.7 | 3584.7 | 3426.8 | 3423.1 |
| 67.5° | 2122.9 | 2108.2 | 2126.6 | 2196.4 | 2339.6 | 2435.1 | 2427.7 | 2299.2 | 2280.8 | 2251.5 | 2284.5 |
| 70° | 1788.7 | 1781.3 | 1748.3 | 1748.3 | 1777.7 | 1799.7 | 1825.4 | 1840.1 | 1869.5 | 1906.2 | 1902.5 |
| 72.5° | 1450.8 | 1432.4 | 1410.4 | 1399.4 | 1436.1 | 1447.1 | 1480.2 | 1494.8 | 1520.6 | 1516.9 | 1549.9 |
| 75° | 958.6 | 958.6 | 984.3 | 1013.7 | 1024.7 | 1046.8 | 1050.4 | 1094.5 | 1094.5 | 1101.9 | 1072.5 |
| 77.5° | 536.2 | 521.5 | 539.9 | 569.3 | 595.0 | 635.4 | 675.8 | 708.9 | 727.2 | 719.9 | 719.9 |
| 80° | 312.2 | 312.2 | 330.6 | 363.6 | 396.7 | 433.4 | 462.8 | 488.5 | 506.9 | 499.5 | 484.8 |
| 82.5° | 194.7 | 194.7 | 213.0 | 246.1 | 271.8 | 293.8 | 334.2 | 367.3 | 389.3 | 382.0 | 363.6 |
| 85° | 99.2 | 99.2 | 121.2 | 143.2 | 176.3 | 191.0 | 187.3 | 172.6 | 169.0 | 150.6 | 150.6 |
| 87.5° | 25.7 | 25.7 | 36.7 | 40.4 | 33.1 | 36.7 | 36.7 | 36.7 | 36.7 | 36.7 | 40.4 |
| 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)