

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: P533742

Luminaire Tested: **GALN-SA9B-722-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-722-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33227 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

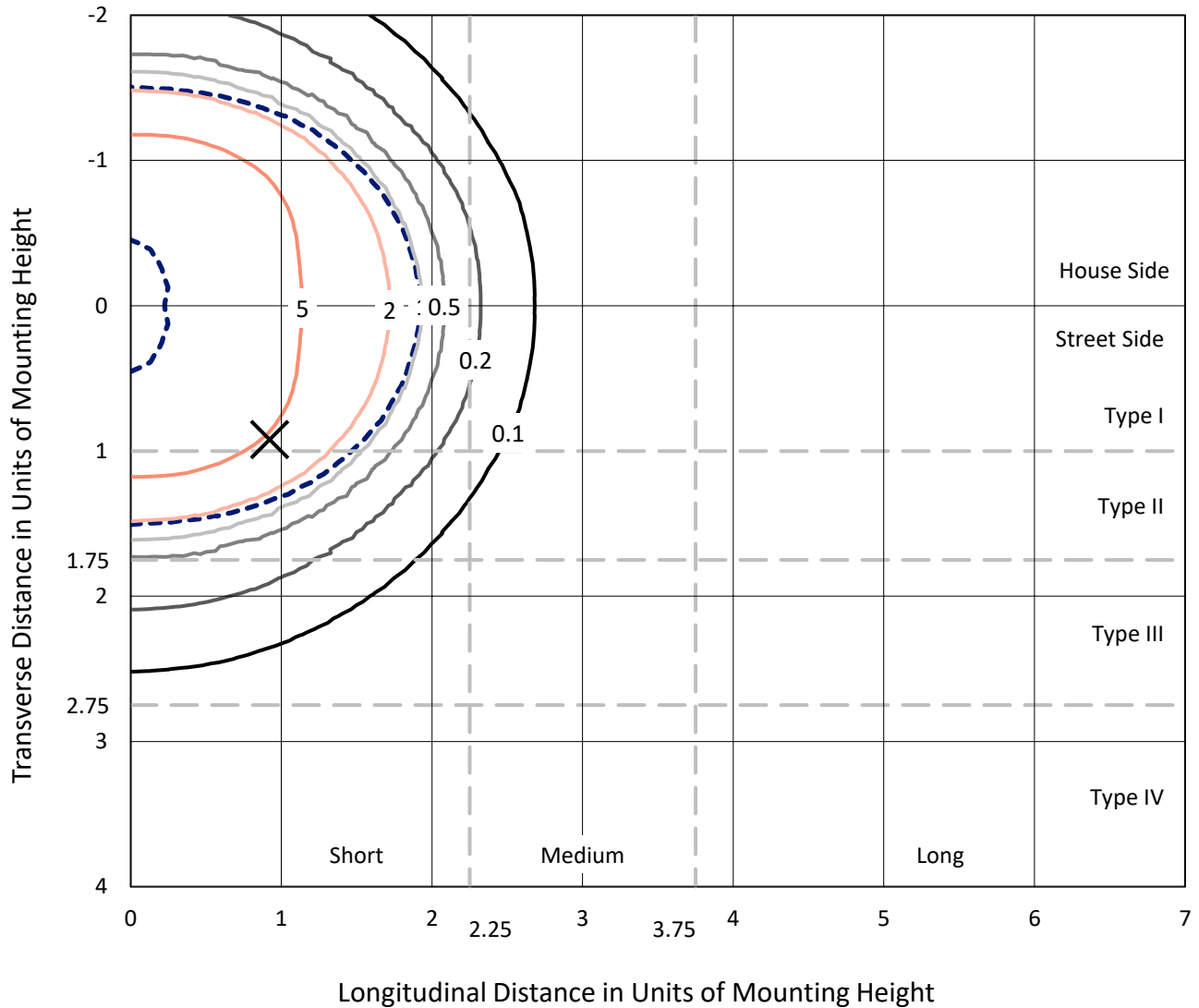
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

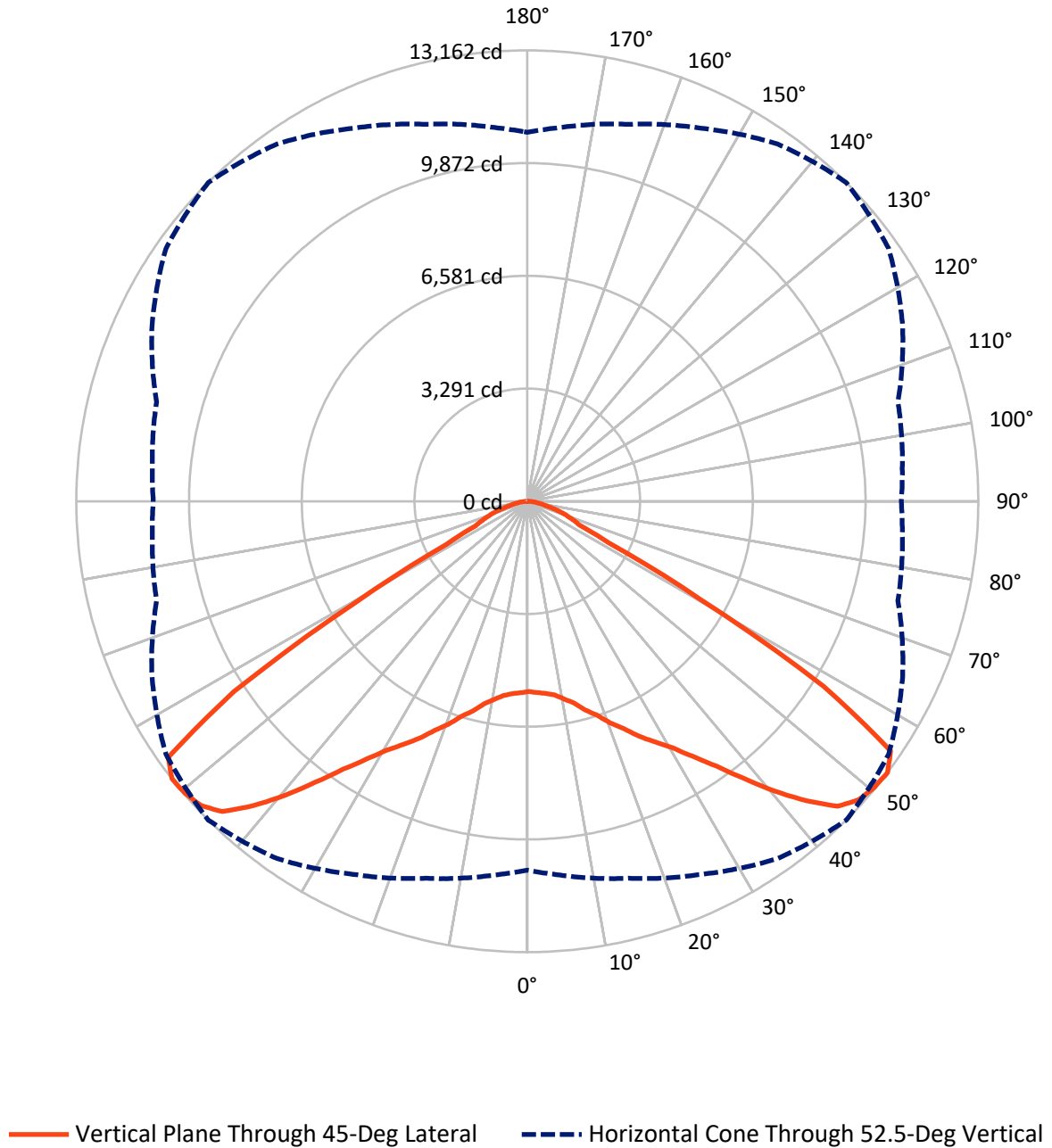
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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 | 16613.5 | 0.0 | 16613.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 16613.5 | 0.0 | 16613.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 33227.0 | 0.0 | 33227.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 545.7 | 1.6 |
| 10°-20° | 1793.1 | 5.4 |
| 20°-30° | 3413.9 | 10.3 |
| 30°-40° | 5861.8 | 17.6 |
| 40°-50° | 9009.8 | 27.1 |
| 50°-60° | 9149.3 | 27.5 |
| 60°-70° | 2549.8 | 7.7 |
| 70°-80° | 752.2 | 2.3 |
| 80°-90° | 151.5 | 0.5 |
| 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° | 33227.0 | 100.0 |
| 0°-180° | 33227.0 | 100.0 |

Coefficient of Utilization



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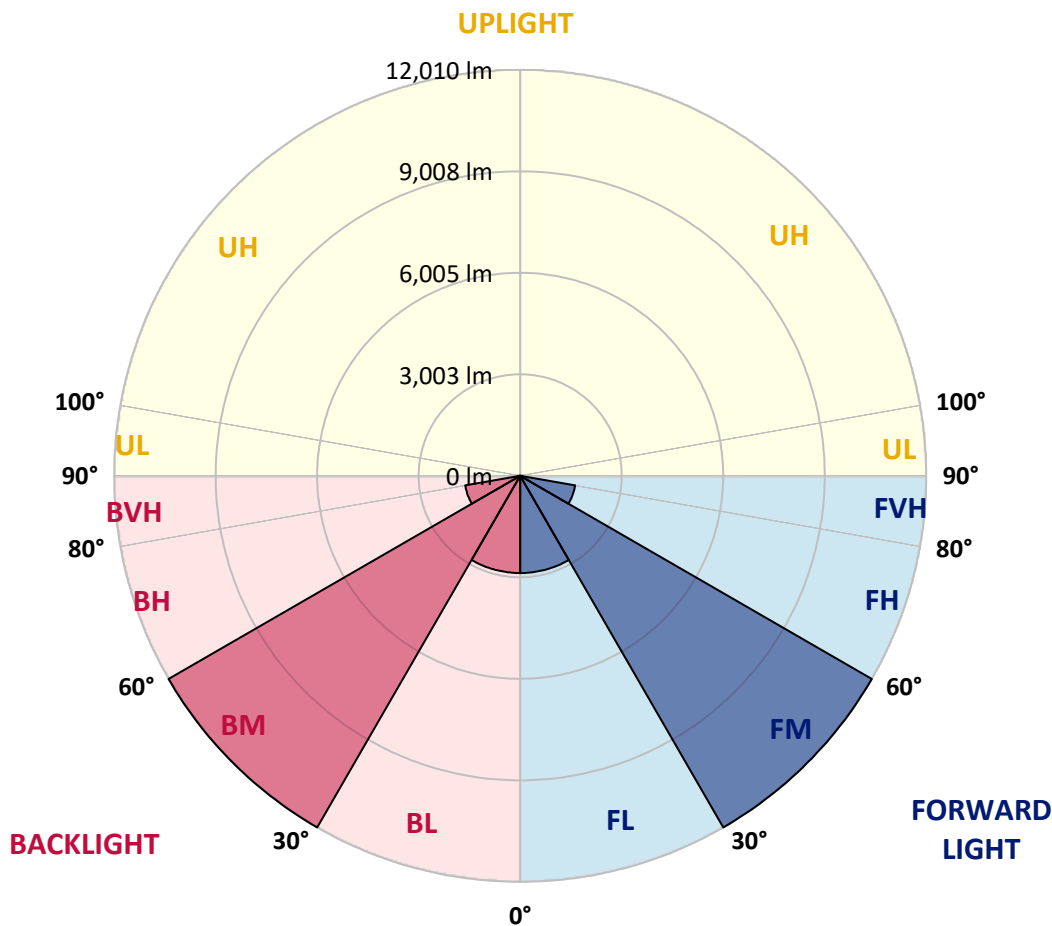
CATALOG NUMBER: GALN-SA9B-722-U-RW-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2876.3 | 8.7 | | | |
| FM (30°-60°) | 12010.4 | 36.1 | | | |
| FH (60°-80°) | 1651.0 | 5.0 | | | G1/1800 |
| FVH (80°-90°) | 75.7 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2876.3 | 8.7 | B4/5000 | | |
| BM (30°-60°) | 12010.4 | 36.1 | B5 | | |
| BH (60°-80°) | 1651.0 | 5.0 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 75.7 | 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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5554.3 | 5554.3 | 5554.3 | 5554.3 | 5554.3 | 5554.3 | 5554.3 | 5554.3 | 5554.3 | 5554.3 | 5554.3 |
| 2.5° | 5566.7 | 5509.0 | 5529.6 | 5542.0 | 5595.6 | 5591.4 | 5579.1 | 5595.6 | 5612.1 | 5616.2 | 5607.9 |
| 5° | 5562.6 | 5521.3 | 5537.8 | 5550.2 | 5603.8 | 5632.7 | 5624.4 | 5694.5 | 5744.0 | 5731.6 | 5793.5 |
| 7.5° | 5529.6 | 5554.3 | 5533.7 | 5595.6 | 5640.9 | 5711.0 | 5785.2 | 5851.2 | 5913.1 | 5983.2 | 5995.5 |
| 10° | 5603.8 | 5603.8 | 5640.9 | 5690.4 | 5810.0 | 5863.6 | 5970.8 | 6065.6 | 6185.2 | 6267.7 | 6234.7 |
| 12.5° | 5682.2 | 5694.5 | 5694.5 | 5822.4 | 5921.3 | 6040.9 | 6139.9 | 6267.7 | 6436.8 | 6535.7 | 6585.2 |
| 15° | 5760.5 | 5768.8 | 5810.0 | 5983.2 | 6131.6 | 6321.3 | 6412.0 | 6527.5 | 6622.3 | 6807.9 | 6812.0 |
| 17.5° | 5830.6 | 5876.0 | 5999.7 | 6193.5 | 6379.0 | 6560.5 | 6704.8 | 6824.4 | 6906.8 | 6981.1 | 6964.6 |
| 20° | 6094.5 | 6127.5 | 6255.3 | 6449.1 | 6725.4 | 6902.7 | 6952.2 | 6972.8 | 7026.4 | 7174.9 | 7129.5 |
| 22.5° | 6350.2 | 6362.5 | 6482.1 | 6779.0 | 6972.8 | 7207.8 | 7261.5 | 7249.1 | 7269.7 | 7306.8 | 7372.8 |
| 25° | 6614.1 | 6634.7 | 6799.6 | 7051.2 | 7323.3 | 7603.7 | 7649.1 | 7554.2 | 7525.4 | 7566.6 | 7570.7 |
| 27.5° | 6952.2 | 6956.3 | 7166.6 | 7385.2 | 7694.4 | 7958.3 | 8028.4 | 7954.2 | 7818.1 | 7851.1 | 7904.7 |
| 30° | 7381.0 | 7352.2 | 7562.5 | 7875.9 | 8201.6 | 8350.1 | 8469.6 | 8432.5 | 8284.1 | 8255.2 | 8209.9 |
| 32.5° | 7875.9 | 7884.1 | 8073.8 | 8416.0 | 8630.4 | 8877.9 | 9005.7 | 8943.8 | 8849.0 | 8799.5 | 8828.4 |
| 35° | 8572.7 | 8609.8 | 8737.7 | 9022.2 | 9368.6 | 9492.3 | 9694.3 | 9562.4 | 9314.9 | 9376.8 | 9430.4 |
| 37.5° | 9145.9 | 9253.1 | 9492.3 | 9830.4 | 10036.6 | 10263.3 | 10337.6 | 10160.3 | 9978.8 | 9904.6 | 10081.9 |
| 40° | 10024.2 | 9991.2 | 10255.1 | 10593.2 | 10898.4 | 11125.2 | 11030.3 | 10853.0 | 10403.5 | 10407.7 | 10457.2 |
| 42.5° | 10778.8 | 10795.3 | 10997.3 | 11401.4 | 11817.9 | 11958.1 | 11657.1 | 11224.1 | 10725.2 | 10671.6 | 10778.8 |
| 45° | 11413.8 | 11479.8 | 11595.2 | 12135.4 | 12543.6 | 12696.2 | 12139.5 | 11628.2 | 10960.2 | 10737.5 | 10914.9 |
| 47.5° | 11640.6 | 11747.8 | 11999.3 | 12494.2 | 12898.3 | 13022.0 | 12576.6 | 11842.6 | 11178.8 | 10815.9 | 10910.7 |
| 50° | 11673.6 | 11636.5 | 12048.8 | 12502.4 | 12857.0 | 13125.0 | 12733.3 | 11999.3 | 11125.2 | 10935.5 | 10906.6 |
| 52.5° | 10770.5 | 10952.0 | 11393.2 | 12015.8 | 12733.3 | 13162.2 | 12873.5 | 12085.9 | 11199.4 | 10985.0 | 10914.9 |
| 55° | 8717.0 | 8502.6 | 9306.7 | 10354.1 | 11673.6 | 12865.3 | 12824.0 | 12131.3 | 11244.7 | 11067.4 | 10972.6 |
| 57.5° | 4865.7 | 4927.6 | 5381.1 | 6519.2 | 8222.2 | 10201.5 | 11401.4 | 11653.0 | 11224.1 | 11121.0 | 11170.5 |
| 60° | 2251.4 | 2272.0 | 2465.8 | 2997.8 | 4053.4 | 5785.2 | 7364.5 | 8968.6 | 9706.7 | 9855.1 | 9855.1 |
| 62.5° | 1678.3 | 1670.0 | 1719.5 | 1814.3 | 2037.0 | 2659.6 | 3550.3 | 4824.5 | 5838.9 | 6548.1 | 6733.6 |
| 65° | 1517.4 | 1513.3 | 1538.1 | 1571.0 | 1587.5 | 1674.1 | 1872.1 | 2263.8 | 2593.7 | 2783.4 | 2750.4 |
| 67.5° | 1327.8 | 1323.6 | 1331.9 | 1352.5 | 1381.4 | 1426.7 | 1476.2 | 1558.7 | 1674.1 | 1665.9 | 1645.3 |
| 70° | 1072.1 | 1072.1 | 1084.5 | 1101.0 | 1134.0 | 1187.6 | 1245.3 | 1303.0 | 1402.0 | 1422.6 | 1418.5 |
| 72.5° | 791.7 | 779.3 | 804.1 | 837.1 | 870.1 | 936.0 | 997.9 | 1051.5 | 1121.6 | 1142.2 | 1134.0 |
| 75° | 503.1 | 511.3 | 527.8 | 564.9 | 622.6 | 668.0 | 734.0 | 779.3 | 824.7 | 841.2 | 845.3 |
| 77.5° | 280.4 | 288.6 | 317.5 | 362.9 | 420.6 | 470.1 | 527.8 | 564.9 | 593.8 | 597.9 | 602.0 |
| 80° | 169.1 | 173.2 | 202.1 | 243.3 | 292.8 | 346.4 | 391.7 | 428.8 | 453.6 | 441.2 | 437.1 |
| 82.5° | 103.1 | 107.2 | 132.0 | 169.1 | 210.3 | 251.5 | 301.0 | 334.0 | 358.7 | 342.2 | 325.8 |
| 85° | 53.6 | 57.7 | 78.3 | 103.1 | 136.1 | 156.7 | 156.7 | 140.2 | 136.1 | 127.8 | 123.7 |
| 87.5° | 16.5 | 16.5 | 20.6 | 24.7 | 20.6 | 24.7 | 28.9 | 33.0 | 33.0 | 37.1 | 33.0 |
| 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)