

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: P533996

Luminaire Tested: **GLAN-SA9C-727-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9C-727-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48010 lumens
Efficiency: N/A
Efficacy: 99.8 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

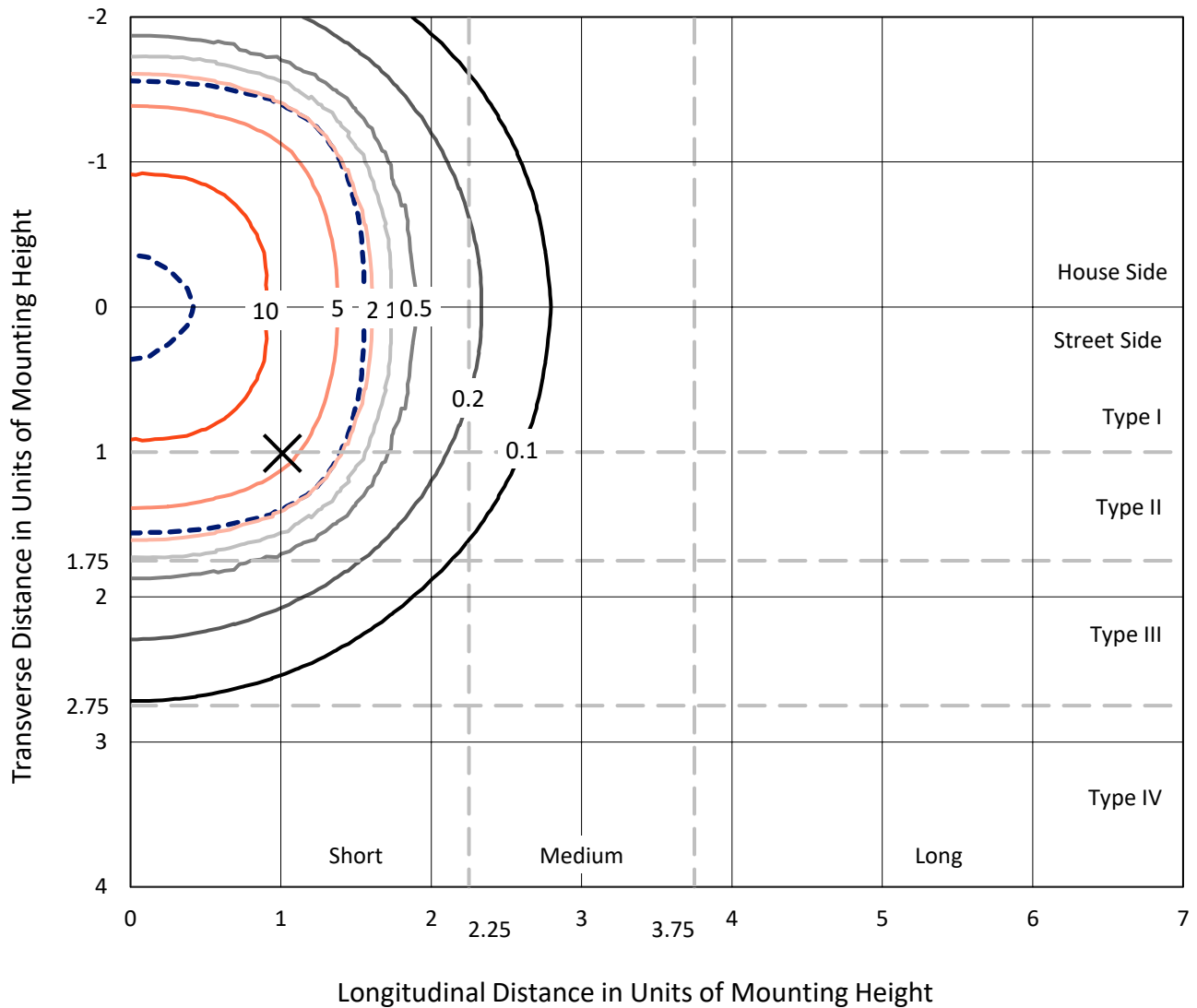
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

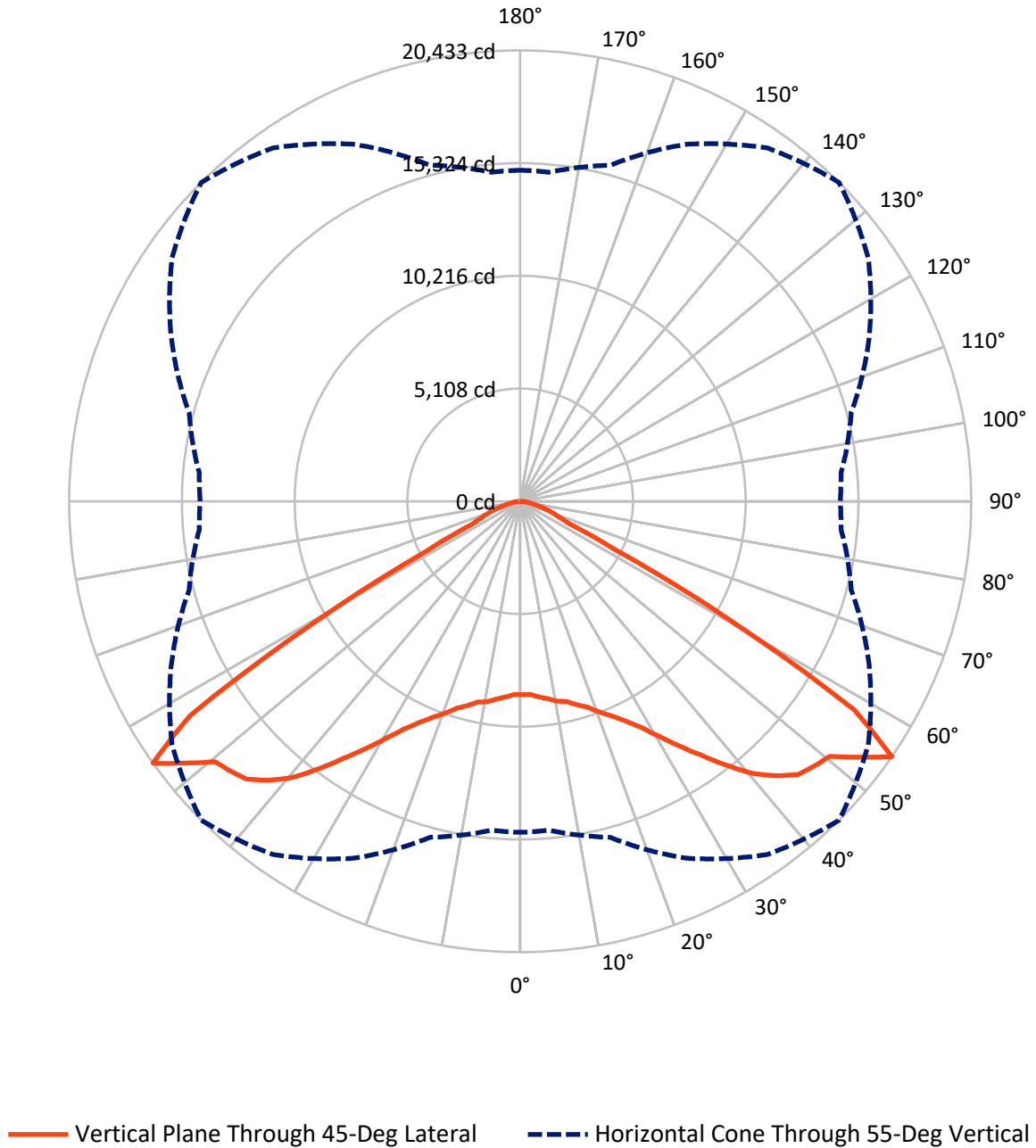
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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 | 24005.0 | 0.0 | 24005.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 24005.0 | 0.0 | 24005.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 48010.0 | 0.0 | 48010.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 856.3 | 1.8 |
| 10°-20° | 2713.3 | 5.7 |
| 20°-30° | 5059.5 | 10.5 |
| 30°-40° | 8471.3 | 17.6 |
| 40°-50° | 13182.0 | 27.5 |
| 50°-60° | 13687.0 | 28.5 |
| 60°-70° | 2902.6 | 6.0 |
| 70°-80° | 955.9 | 2.0 |
| 80°-90° | 182.0 | 0.4 |
| 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° | 48010.0 | 100.0 |
| 0°-180° | 48010.0 | 100.0 |

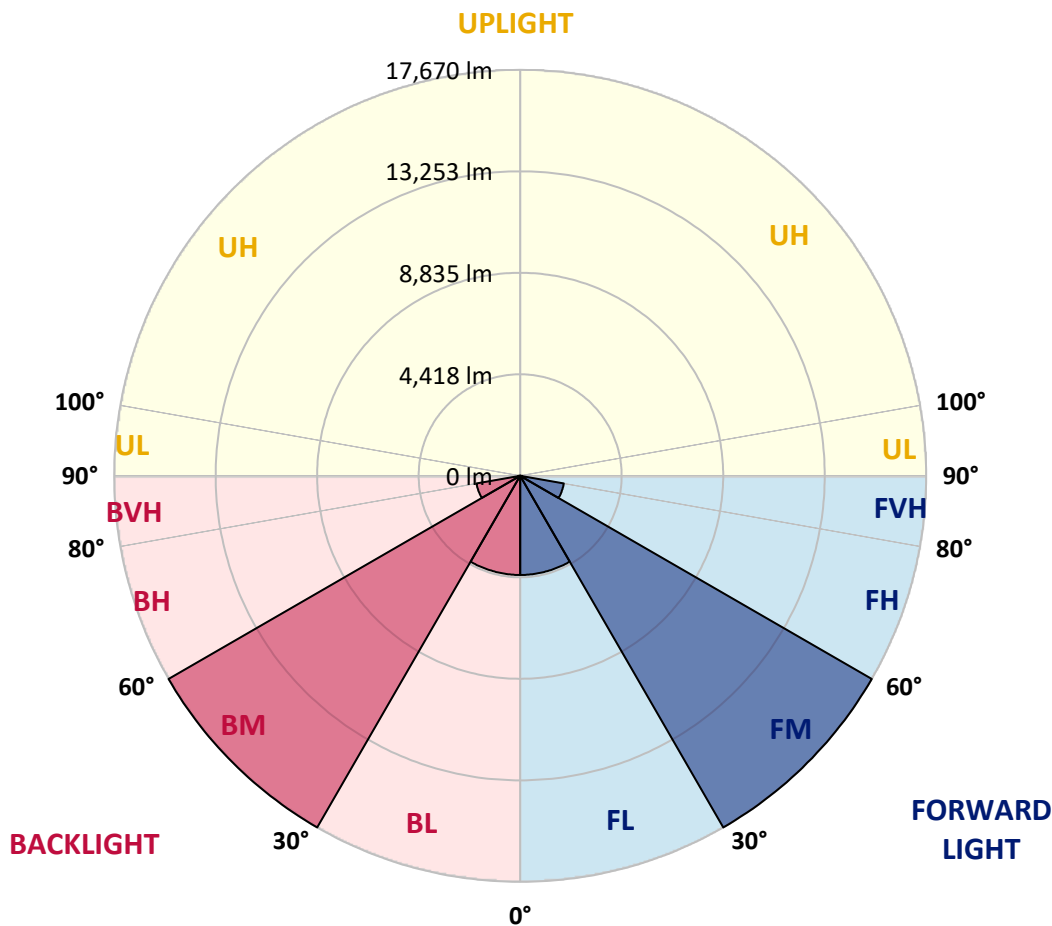


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4314.6 | 9.0 | | | |
| FM (30°-60°) | 17670.1 | 36.8 | | | |
| FH (60°-80°) | 1929.2 | 4.0 | | | G2/5000 |
| FVH (80°-90°) | 91.0 | 0.2 | | | G1/100 |
| BL (0°-30°) | 4314.6 | 9.0 | B4/5000 | | |
| BM (30°-60°) | 17670.1 | 36.8 | B5 | | |
| BH (60°-80°) | 1929.2 | 4.0 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 91.0 | 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-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8765.9 | 8765.9 | 8765.9 | 8765.9 | 8765.9 | 8765.9 | 8765.9 | 8765.9 | 8765.9 | 8765.9 | 8765.9 |
| 2.5° | 8870.3 | 8829.7 | 8760.1 | 8812.3 | 8852.9 | 8765.9 | 8800.7 | 8818.1 | 8806.5 | 8760.1 | 8777.5 |
| 5° | 8998.0 | 8974.8 | 8916.7 | 8957.4 | 8905.1 | 8905.1 | 8870.3 | 8823.9 | 8893.5 | 8881.9 | 8910.9 |
| 7.5° | 8998.0 | 8969.0 | 9085.0 | 9009.6 | 9032.8 | 9032.8 | 8974.8 | 8928.3 | 8963.2 | 8910.9 | 8881.9 |
| 10° | 9177.8 | 9218.4 | 9166.2 | 9183.6 | 9172.0 | 9212.6 | 9125.6 | 9096.6 | 9067.6 | 9050.2 | 9015.4 |
| 12.5° | 9392.5 | 9363.5 | 9380.9 | 9369.3 | 9409.9 | 9305.4 | 9253.2 | 9189.4 | 9241.6 | 9166.2 | 9218.4 |
| 15° | 9566.5 | 9549.1 | 9566.5 | 9612.9 | 9572.3 | 9566.5 | 9473.7 | 9409.9 | 9328.6 | 9346.0 | 9264.8 |
| 17.5° | 9804.4 | 9787.0 | 9792.8 | 9833.4 | 9827.6 | 9798.6 | 9728.9 | 9607.1 | 9578.1 | 9531.7 | 9479.5 |
| 20° | 10158.2 | 10129.2 | 10117.6 | 10135.0 | 10164.0 | 10187.3 | 10048.0 | 10001.6 | 9903.0 | 9827.6 | 9740.5 |
| 22.5° | 10459.9 | 10448.3 | 10494.7 | 10419.3 | 10483.1 | 10552.7 | 10419.3 | 10396.1 | 10152.4 | 10111.8 | 10019.0 |
| 25° | 10877.6 | 10860.2 | 10831.2 | 10941.4 | 11016.9 | 11011.1 | 10883.4 | 10755.8 | 10570.1 | 10523.7 | 10523.7 |
| 27.5° | 11318.5 | 11219.9 | 11370.7 | 11399.7 | 11533.2 | 11573.8 | 11463.6 | 11277.9 | 11103.9 | 11005.2 | 11028.5 |
| 30° | 11869.7 | 11776.8 | 11811.6 | 12020.5 | 12194.5 | 12345.4 | 12066.9 | 11794.2 | 11550.6 | 11376.5 | 11347.5 |
| 32.5° | 12420.8 | 12328.0 | 12432.4 | 12635.4 | 12983.5 | 13209.8 | 12937.1 | 12461.4 | 12177.1 | 11921.9 | 11974.1 |
| 35° | 12867.5 | 12937.1 | 13105.4 | 13412.8 | 13772.5 | 14138.0 | 13702.9 | 13337.4 | 12931.3 | 12647.0 | 12687.7 |
| 37.5° | 13586.9 | 13801.5 | 13935.0 | 14288.8 | 14799.4 | 15176.5 | 14723.9 | 14248.2 | 13813.1 | 13441.8 | 13314.2 |
| 40° | 14526.7 | 14671.7 | 14822.6 | 15240.3 | 15843.6 | 16220.7 | 15791.4 | 15170.7 | 14741.3 | 14358.5 | 14341.1 |
| 42.5° | 15559.3 | 15698.6 | 15855.2 | 16365.7 | 16725.4 | 17009.7 | 16615.2 | 16284.5 | 15808.8 | 15507.1 | 15489.7 |
| 45° | 16760.2 | 16661.6 | 16835.7 | 17172.1 | 17473.8 | 17659.5 | 17404.2 | 17241.8 | 16899.5 | 16621.0 | 16592.0 |
| 47.5° | 17560.8 | 17473.8 | 17787.1 | 18088.8 | 18135.2 | 17932.1 | 17984.3 | 18135.2 | 17775.5 | 17317.2 | 17462.2 |
| 50° | 18024.9 | 18024.9 | 18233.8 | 18512.3 | 18425.2 | 18164.2 | 18576.1 | 18587.7 | 18228.0 | 17821.9 | 17821.9 |
| 52.5° | 17218.5 | 17398.4 | 17990.1 | 18900.9 | 19191.0 | 19266.4 | 19173.6 | 18779.1 | 17839.3 | 17009.7 | 16969.1 |
| 55° | 15002.4 | 14961.8 | 15762.4 | 17850.9 | 19539.1 | 20432.5 | 19249.0 | 17433.2 | 15524.5 | 14590.5 | 14497.7 |
| 57.5° | 9757.9 | 9804.4 | 10999.4 | 13128.6 | 16174.3 | 17839.3 | 15843.6 | 13291.0 | 10999.4 | 9711.5 | 9833.4 |
| 60° | 4391.7 | 4548.3 | 5273.5 | 6863.1 | 9479.5 | 10837.0 | 9502.7 | 7211.1 | 5534.5 | 4803.6 | 4867.4 |
| 62.5° | 2523.6 | 2552.6 | 2581.6 | 3063.1 | 4037.8 | 4774.5 | 4194.4 | 3237.2 | 2854.3 | 2726.7 | 2726.7 |
| 65° | 2129.1 | 2111.7 | 2117.5 | 2158.1 | 2262.5 | 2413.4 | 2349.6 | 2262.5 | 2274.1 | 2262.5 | 2245.1 |
| 67.5° | 1810.0 | 1833.2 | 1815.8 | 1844.8 | 1850.6 | 1873.9 | 1914.5 | 1949.3 | 1955.1 | 1966.7 | 1955.1 |
| 70° | 1485.2 | 1491.0 | 1502.6 | 1525.8 | 1531.6 | 1549.0 | 1607.0 | 1636.0 | 1653.4 | 1653.4 | 1676.6 |
| 72.5° | 1137.1 | 1131.3 | 1142.9 | 1166.1 | 1195.1 | 1200.9 | 1253.1 | 1293.7 | 1316.9 | 1287.9 | 1293.7 |
| 75° | 748.4 | 754.2 | 771.6 | 789.0 | 829.6 | 870.2 | 887.6 | 928.2 | 934.0 | 945.6 | 916.6 |
| 77.5° | 446.7 | 458.3 | 475.7 | 510.5 | 545.3 | 580.1 | 620.7 | 649.8 | 661.4 | 649.8 | 614.9 |
| 80° | 290.1 | 290.1 | 313.3 | 342.3 | 382.9 | 411.9 | 435.1 | 458.3 | 475.7 | 458.3 | 446.7 |
| 82.5° | 179.8 | 179.8 | 208.9 | 243.7 | 272.7 | 290.1 | 324.9 | 353.9 | 371.3 | 359.7 | 342.3 |
| 85° | 92.8 | 98.6 | 121.8 | 150.8 | 174.0 | 185.6 | 179.8 | 162.4 | 145.0 | 139.2 | 127.6 |
| 87.5° | 29.0 | 29.0 | 34.8 | 34.8 | 29.0 | 29.0 | 34.8 | 29.0 | 34.8 | 34.8 | 34.8 |
| 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)