

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: P452294

Luminaire Tested: **GALN-SA3B-727-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-727-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14181 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

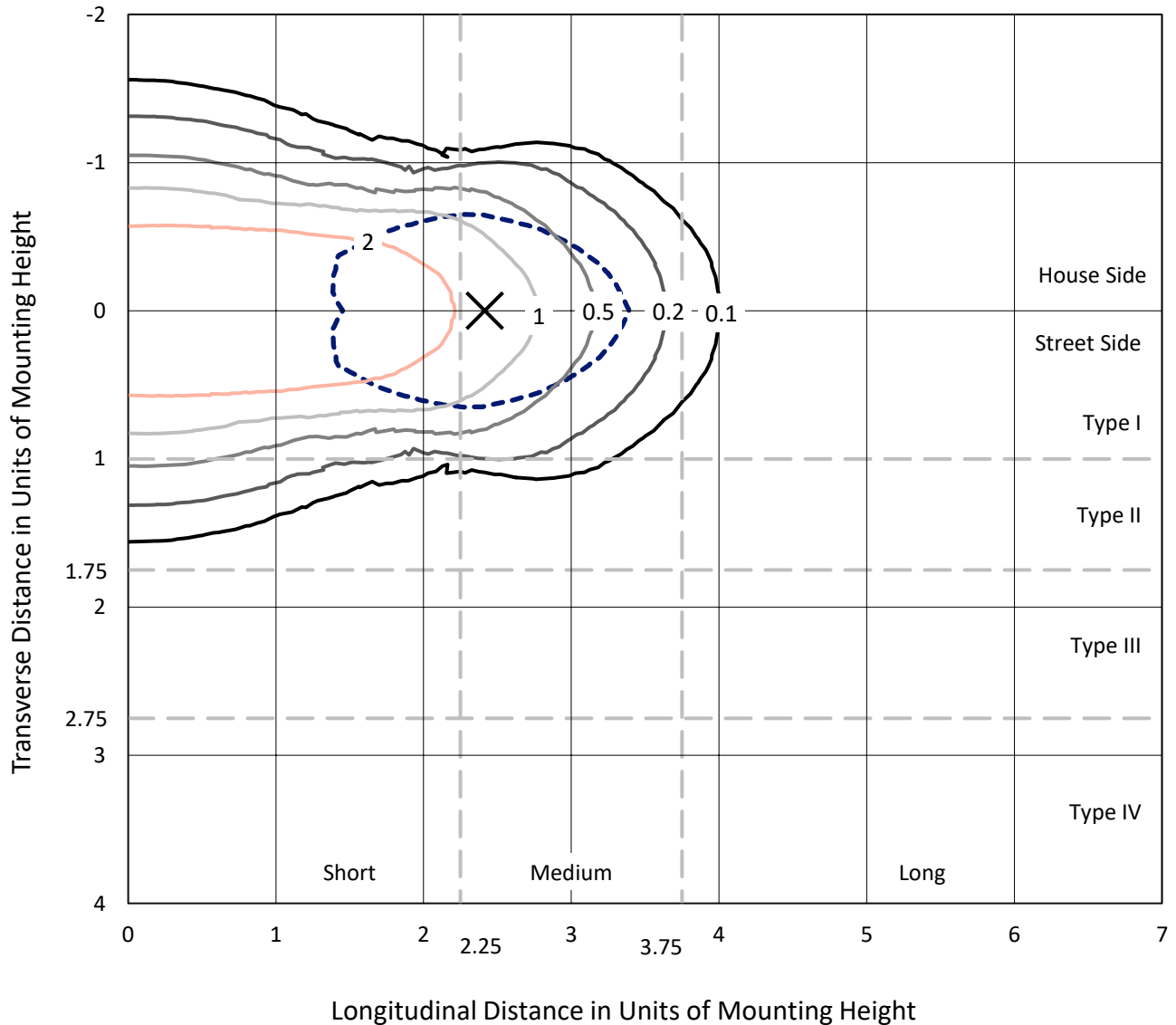
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452294
 CATALOG NUMBER: GALN-SA3B-727-U-T1

Iso-Footcandle Lines of Horizontal Illumination

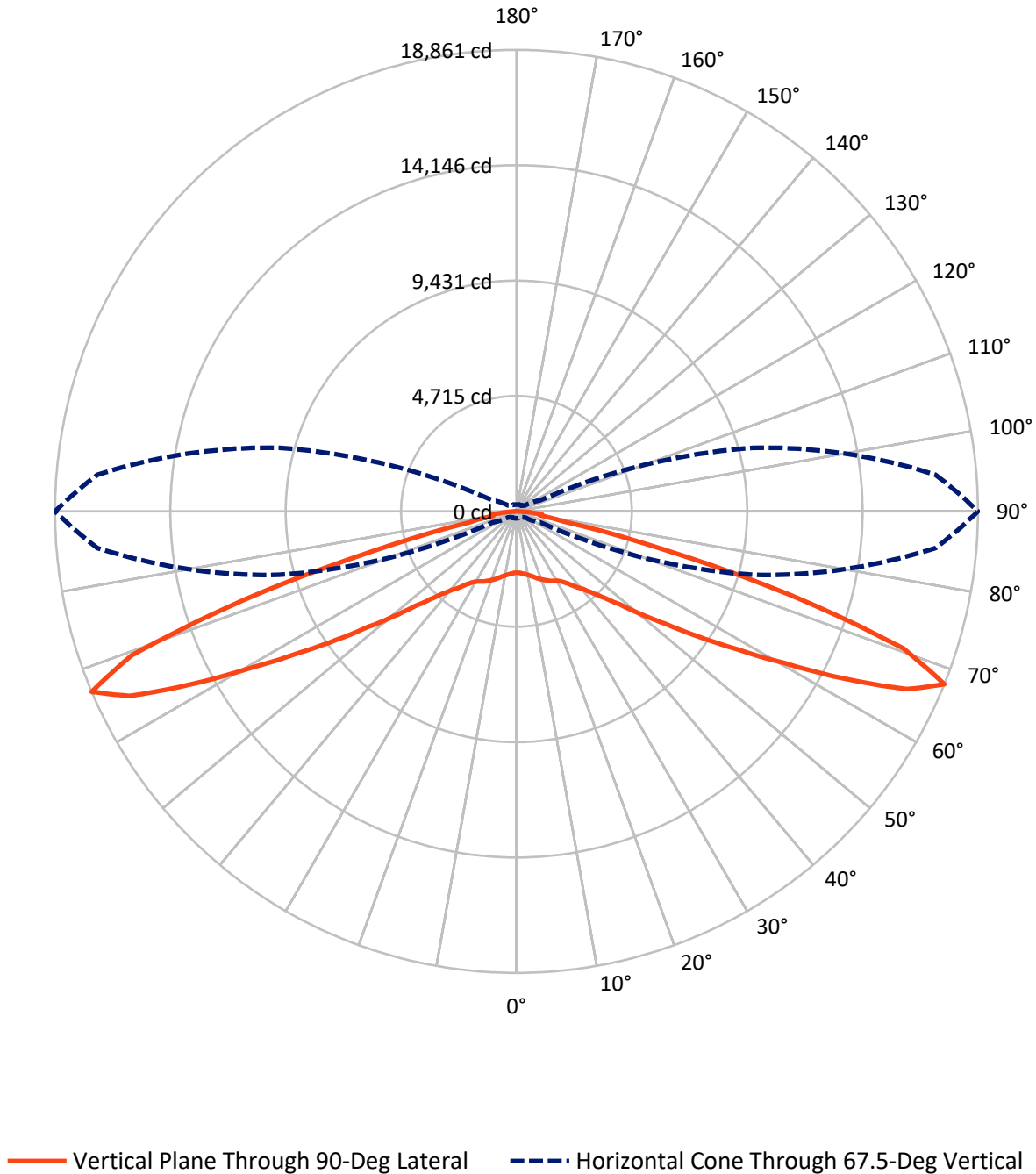
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type I - Short - N/A

REPORT NUMBER: P452294
CATALOG NUMBER: GALN-SA3B-727-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P452294

CATALOG NUMBER: GALN-SA3B-727-U-T1

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7090.5 | 0.0 | 7090.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7090.5 | 0.0 | 7090.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 14181.0 | 0.0 | 14181.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 250.3 | 1.8 |
| 10°-20° | 800.8 | 5.6 |
| 20°-30° | 1340.3 | 9.5 |
| 30°-40° | 1815.8 | 12.8 |
| 40°-50° | 2300.0 | 16.2 |
| 50°-60° | 2873.3 | 20.3 |
| 60°-70° | 3377.5 | 23.8 |
| 70°-80° | 1292.0 | 9.1 |
| 80°-90° | 130.9 | 0.9 |
| 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° | 14181.0 | 100.0 |
| 0°-180° | 14181.0 | 100.0 |



REPORT NUMBER: P452294

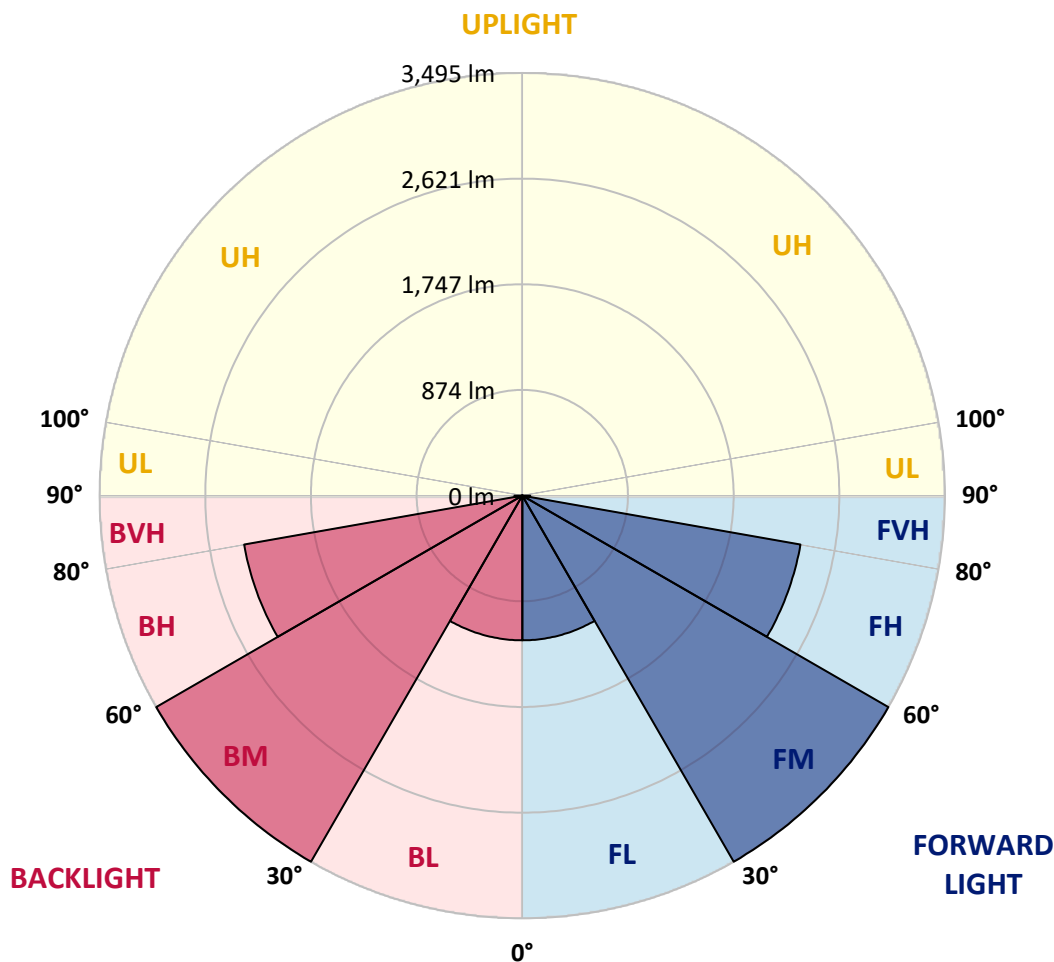
CATALOG NUMBER: GALN-SA3B-727-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1195.7 | 8.4 | | | |
| FM | (30°-60°) | 3494.6 | 24.6 | | | |
| FH | (60°-80°) | 2334.7 | 16.5 | | | G2/5000 |
| FVH | (80°-90°) | 65.4 | 0.5 | | | G1/100 |
| BL | (0°-30°) | 1195.7 | 8.4 | B3/2500 | | |
| BM | (30°-60°) | 3494.6 | 24.6 | B3/5000 | | |
| BH | (60°-80°) | 2334.7 | 16.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 65.4 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type I Short





REPORT NUMBER: P452294
 CATALOG NUMBER: GALN-SA3B-727-U-T1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 2510.5 | 2510.5 | 2510.5 | 2510.5 | 2510.5 | 2510.5 | 2510.5 | 2510.5 | 2510.5 | 2510.5 | 2510.5 |
| 2.5° | 2542.7 | 2541.1 | 2541.9 | 2541.1 | 2543.5 | 2541.9 | 2532.5 | 2524.6 | 2518.3 | 2519.1 | 2516.8 |
| 5° | 2596.9 | 2597.6 | 2598.4 | 2594.5 | 2600.0 | 2596.9 | 2581.9 | 2569.4 | 2556.8 | 2552.1 | 2550.5 |
| 7.5° | 2641.6 | 2645.5 | 2647.9 | 2651.8 | 2661.2 | 2661.2 | 2653.4 | 2635.3 | 2607.9 | 2592.1 | 2591.4 |
| 10° | 2686.4 | 2689.5 | 2696.6 | 2709.1 | 2724.9 | 2739.8 | 2736.6 | 2712.3 | 2677.0 | 2650.3 | 2644.0 |
| 12.5° | 2702.1 | 2706.0 | 2729.6 | 2765.7 | 2801.0 | 2830.1 | 2830.1 | 2810.4 | 2764.9 | 2724.1 | 2712.3 |
| 15° | 2647.1 | 2654.2 | 2696.6 | 2773.5 | 2866.2 | 2929.8 | 2943.9 | 2916.5 | 2867.8 | 2805.0 | 2790.8 |
| 17.5° | 2538.0 | 2555.2 | 2617.3 | 2731.1 | 2885.0 | 3017.0 | 3057.8 | 3044.5 | 2981.6 | 2901.5 | 2885.0 |
| 20° | 2421.0 | 2439.8 | 2505.8 | 2656.5 | 2869.3 | 3068.0 | 3186.6 | 3189.7 | 3112.0 | 2995.8 | 2971.4 |
| 22.5° | 2292.2 | 2306.3 | 2391.1 | 2567.8 | 2822.2 | 3079.8 | 3297.3 | 3351.5 | 3246.3 | 3090.0 | 3055.4 |
| 25° | 2147.7 | 2163.4 | 2252.1 | 2442.9 | 2733.5 | 3066.4 | 3398.6 | 3518.0 | 3386.8 | 3190.5 | 3146.5 |
| 27.5° | 2009.5 | 2015.8 | 2110.8 | 2304.7 | 2616.5 | 3031.9 | 3473.2 | 3671.1 | 3542.3 | 3273.8 | 3218.0 |
| 30° | 1876.8 | 1891.7 | 1975.7 | 2167.3 | 2482.2 | 2964.4 | 3537.6 | 3845.4 | 3709.6 | 3360.9 | 3289.5 |
| 32.5° | 1736.2 | 1754.3 | 1845.4 | 2039.3 | 2347.9 | 2863.1 | 3576.9 | 4036.2 | 3942.8 | 3502.3 | 3426.1 |
| 35° | 1601.1 | 1612.9 | 1704.8 | 1893.3 | 2216.8 | 2745.3 | 3583.9 | 4251.4 | 4243.5 | 3716.6 | 3615.3 |
| 37.5° | 1462.9 | 1480.2 | 1572.9 | 1753.5 | 2077.8 | 2620.4 | 3548.6 | 4479.9 | 4606.3 | 4014.3 | 3905.1 |
| 40° | 1330.2 | 1345.2 | 1436.2 | 1618.4 | 1920.0 | 2468.1 | 3464.6 | 4688.8 | 5029.6 | 4320.5 | 4165.8 |
| 42.5° | 1185.7 | 1189.7 | 1289.4 | 1474.7 | 1765.3 | 2291.4 | 3343.6 | 4874.9 | 5501.5 | 4731.2 | 4538.8 |
| 45° | 1021.6 | 1031.8 | 1124.5 | 1306.7 | 1587.8 | 2093.5 | 3179.5 | 5028.8 | 6099.9 | 5300.5 | 5038.2 |
| 47.5° | 857.5 | 866.1 | 951.0 | 1130.8 | 1393.8 | 1866.6 | 2926.7 | 5163.9 | 6714.0 | 6023.7 | 5679.8 |
| 50° | 697.3 | 702.0 | 771.1 | 930.5 | 1175.5 | 1627.8 | 2613.3 | 5207.1 | 7408.1 | 7047.7 | 6608.8 |
| 52.5° | 551.3 | 558.3 | 610.9 | 735.8 | 942.3 | 1345.9 | 2274.9 | 5100.3 | 8218.5 | 8261.7 | 7642.9 |
| 55° | 446.8 | 449.2 | 488.4 | 580.3 | 736.6 | 1050.7 | 1866.6 | 4802.7 | 9090.2 | 9817.3 | 9028.1 |
| 57.5° | 384.8 | 386.3 | 408.3 | 459.4 | 567.0 | 792.3 | 1448.0 | 4239.6 | 9873.1 | 11639.9 | 10625.4 |
| 60° | 349.4 | 350.2 | 362.8 | 392.6 | 449.2 | 607.8 | 1037.3 | 3444.9 | 10645.8 | 13668.2 | 12610.5 |
| 62.5° | 327.5 | 327.5 | 336.1 | 352.6 | 380.1 | 466.4 | 751.5 | 2485.4 | 11175.0 | 15726.4 | 15057.4 |
| 65° | 306.3 | 306.3 | 312.5 | 324.3 | 339.2 | 381.6 | 555.2 | 1620.8 | 11161.7 | 17225.5 | 17518.4 |
| 67.5° | 281.9 | 281.9 | 286.6 | 298.4 | 307.0 | 328.2 | 428.8 | 1061.7 | 10026.2 | 17192.5 | 18861.2 |
| 70° | 252.9 | 252.9 | 259.1 | 269.3 | 276.4 | 289.8 | 338.4 | 726.4 | 7365.7 | 14679.7 | 16774.0 |
| 72.5° | 223.8 | 224.6 | 228.5 | 238.7 | 244.2 | 252.1 | 281.1 | 508.8 | 4518.4 | 9995.6 | 11728.7 |
| 75° | 191.6 | 193.2 | 197.1 | 207.3 | 212.0 | 215.2 | 237.1 | 362.8 | 2285.9 | 5389.2 | 6136.0 |
| 77.5° | 154.7 | 157.8 | 160.2 | 171.2 | 174.3 | 179.0 | 195.5 | 262.3 | 1003.6 | 1936.5 | 1953.7 |
| 80° | 113.1 | 117.0 | 124.1 | 134.3 | 136.6 | 139.8 | 149.2 | 186.1 | 454.7 | 884.2 | 960.4 |
| 82.5° | 83.2 | 88.7 | 80.1 | 93.4 | 93.4 | 89.5 | 105.2 | 124.9 | 208.9 | 875.6 | 1047.5 |
| 85° | 45.5 | 46.3 | 41.6 | 47.9 | 51.0 | 50.3 | 55.8 | 61.3 | 101.3 | 584.2 | 602.3 |
| 87.5° | 11.0 | 11.8 | 12.6 | 14.9 | 18.1 | 18.1 | 19.6 | 17.3 | 33.0 | 189.2 | 108.4 |
| 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)