

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: P530647

Luminaire Tested: **GALN-SA5D-827-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-827-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18405 lumens
Efficiency: N/A
Efficacy: 59.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

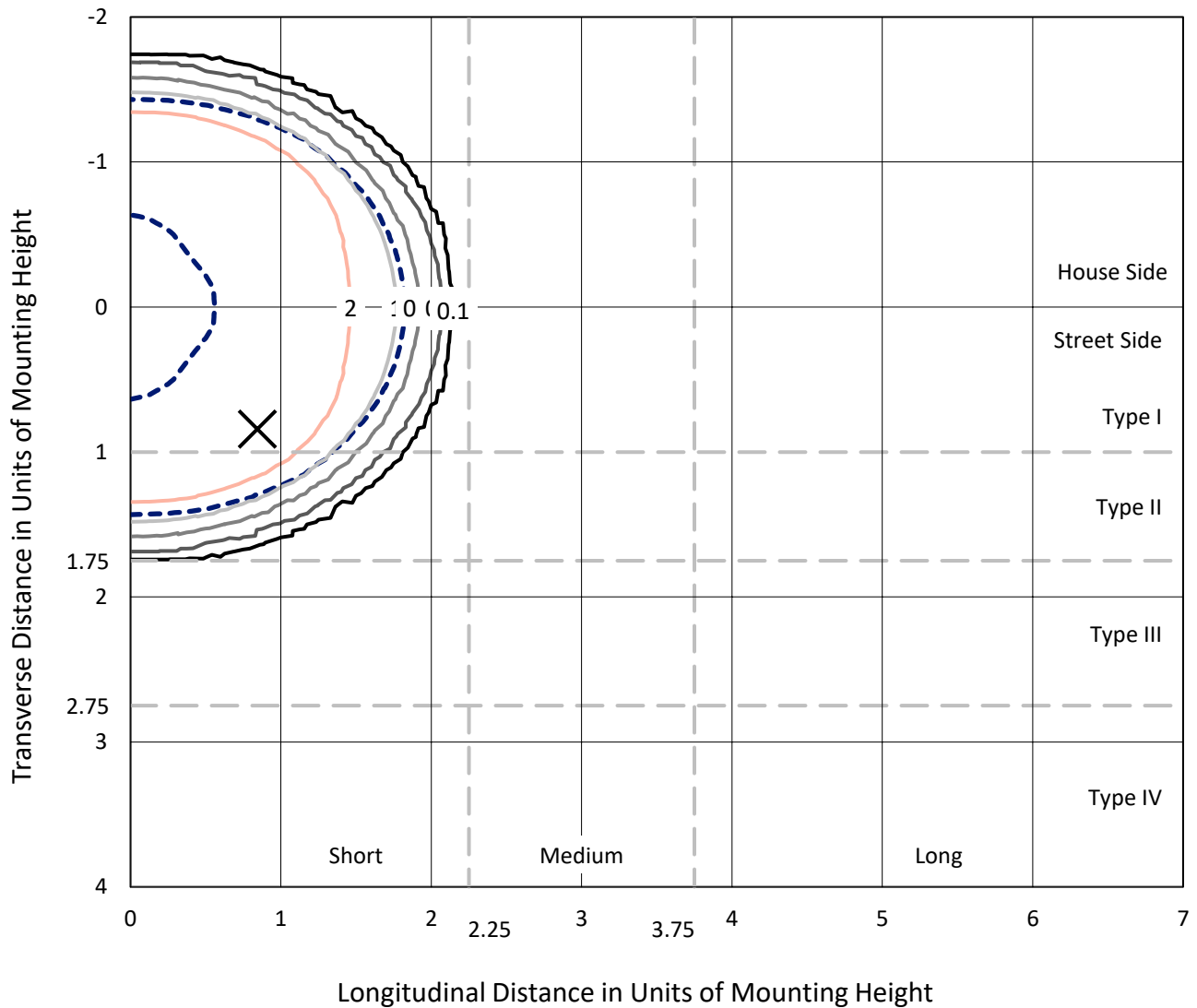
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

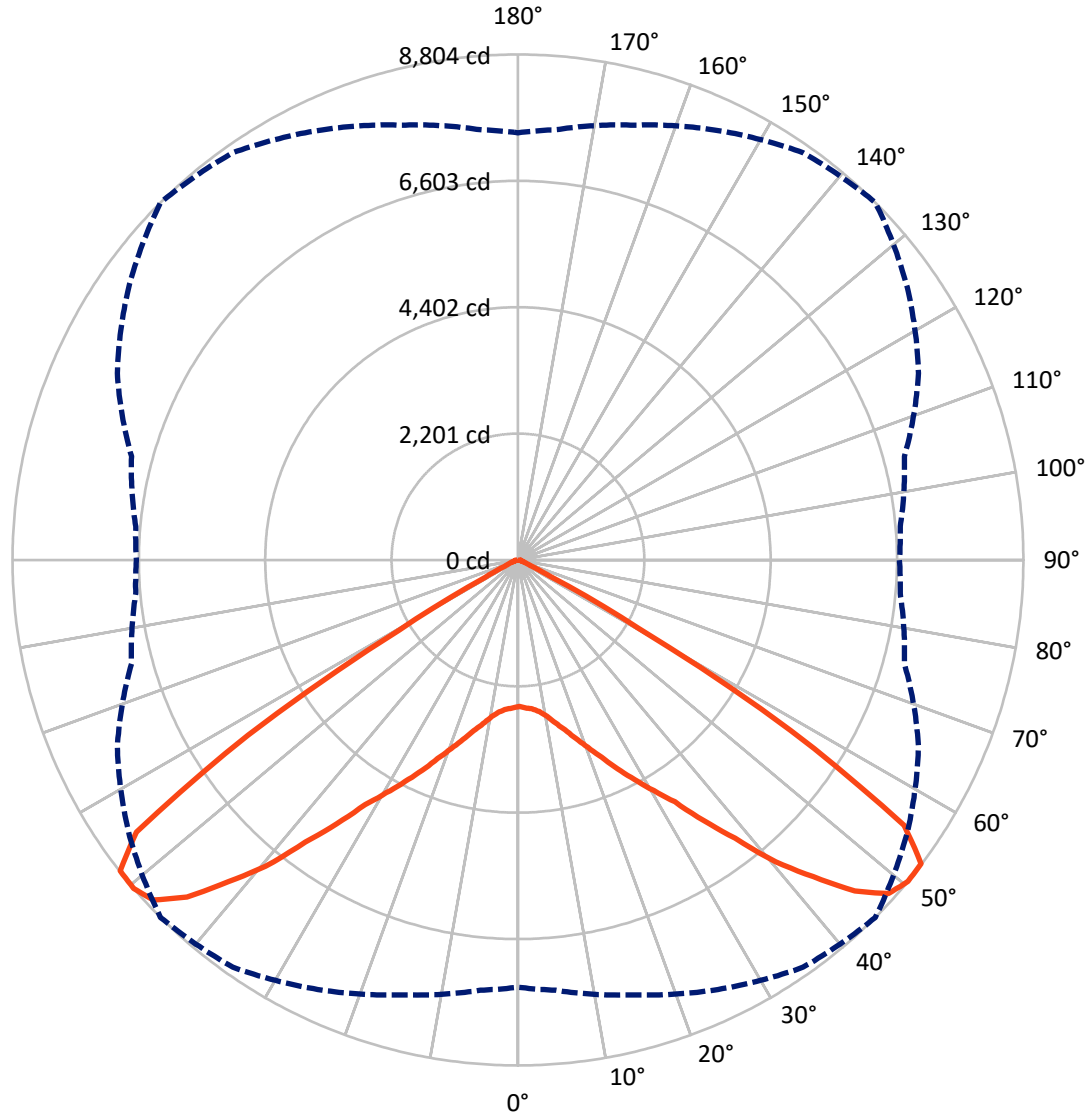
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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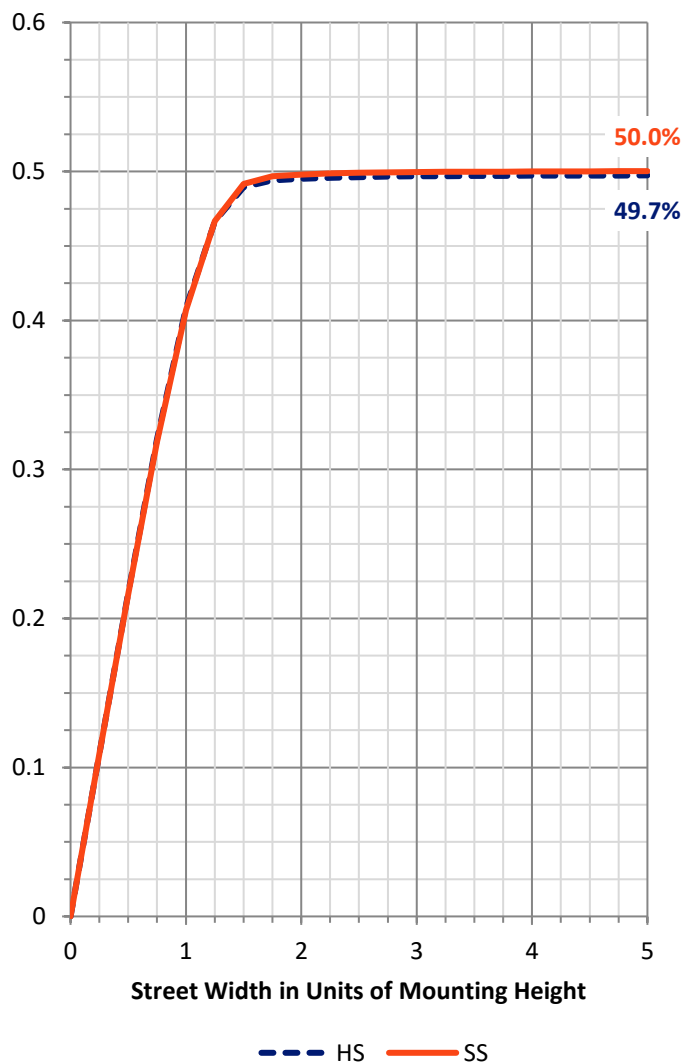
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9202.5 | 0.0 | 9202.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9202.5 | 0.0 | 9202.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 18405.0 | 0.0 | 18405.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 253.8 | 1.4 |
| 10°-20° | 874.9 | 4.8 |
| 20°-30° | 1786.9 | 9.7 |
| 30°-40° | 3407.7 | 18.5 |
| 40°-50° | 5742.4 | 31.2 |
| 50°-60° | 5476.4 | 29.8 |
| 60°-70° | 764.5 | 4.2 |
| 70°-80° | 73.1 | 0.4 |
| 80°-90° | 25.3 | 0.1 |
| 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° | 18405.0 | 100.0 |
| 0°-180° | 18405.0 | 100.0 |

Coefficient of Utilization



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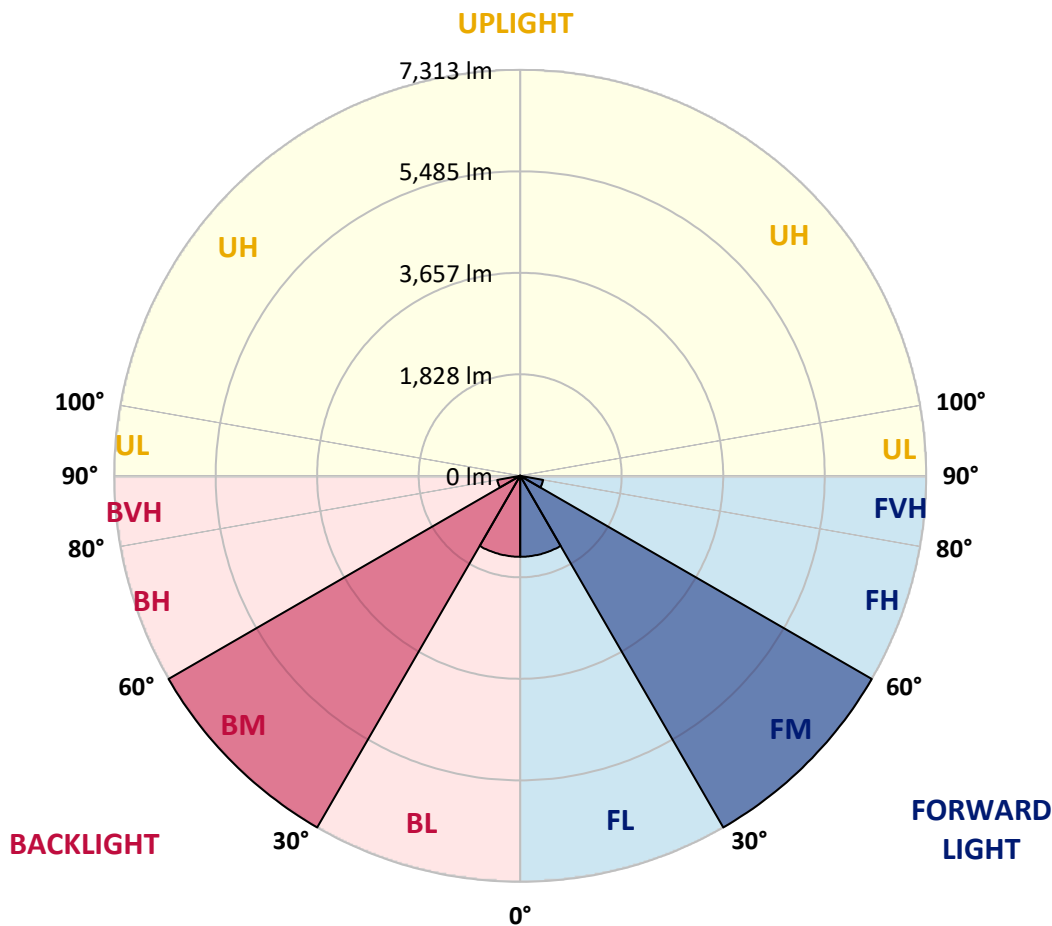
CATALOG NUMBER: GALN-SA5D-827-U-RW-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1457.8 | 7.9 | | | |
| FM (30°-60°) | 7313.2 | 39.7 | | | |
| FH (60°-80°) | 418.8 | 2.3 | | | G0/660 |
| FVH (80°-90°) | 12.6 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1457.8 | 7.9 | B3/2500 | | |
| BM (30°-60°) | 7313.2 | 39.7 | B4/8500 | | |
| BH (60°-80°) | 418.8 | 2.3 | B1/500 | | G0/660 |
| BVH (80°-90°) | 12.6 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2551.7 | 2551.7 | 2551.7 | 2551.7 | 2551.7 | 2551.7 | 2551.7 | 2551.7 | 2551.7 | 2551.7 | 2551.7 |
| 2.5° | 2542.4 | 2542.4 | 2539.3 | 2564.0 | 2551.7 | 2579.5 | 2576.4 | 2585.7 | 2595.0 | 2591.9 | 2616.7 |
| 5° | 2520.7 | 2517.6 | 2517.6 | 2545.5 | 2573.3 | 2604.3 | 2632.2 | 2650.7 | 2681.7 | 2681.7 | 2712.7 |
| 7.5° | 2542.4 | 2526.9 | 2548.6 | 2560.9 | 2613.6 | 2666.2 | 2712.7 | 2749.8 | 2821.1 | 2845.8 | 2836.5 |
| 10° | 2548.6 | 2567.1 | 2582.6 | 2619.8 | 2684.8 | 2765.3 | 2805.6 | 2898.5 | 2979.0 | 3034.7 | 3047.1 |
| 12.5° | 2588.8 | 2616.7 | 2660.0 | 2749.8 | 2808.7 | 2914.0 | 2969.7 | 3059.5 | 3171.0 | 3232.9 | 3276.3 |
| 15° | 2666.2 | 2675.5 | 2731.3 | 2845.8 | 2972.8 | 3068.8 | 3155.5 | 3220.5 | 3328.9 | 3400.1 | 3403.2 |
| 17.5° | 2765.3 | 2805.6 | 2883.0 | 2991.4 | 3124.5 | 3267.0 | 3335.1 | 3406.3 | 3446.6 | 3542.6 | 3564.3 |
| 20° | 2963.5 | 2969.7 | 3044.0 | 3186.5 | 3353.7 | 3483.7 | 3533.3 | 3570.5 | 3555.0 | 3654.1 | 3672.6 |
| 22.5° | 3149.3 | 3155.5 | 3248.4 | 3440.4 | 3620.0 | 3731.5 | 3753.2 | 3731.5 | 3685.0 | 3756.3 | 3762.4 |
| 25° | 3338.2 | 3393.9 | 3462.1 | 3654.1 | 3877.0 | 4025.7 | 4028.8 | 3969.9 | 3873.9 | 3886.3 | 3917.3 |
| 27.5° | 3632.4 | 3672.6 | 3743.9 | 3920.4 | 4165.0 | 4332.2 | 4304.4 | 4233.1 | 4109.3 | 4118.6 | 4109.3 |
| 30° | 3976.1 | 4013.3 | 4072.1 | 4298.2 | 4477.8 | 4660.5 | 4700.7 | 4632.6 | 4446.8 | 4406.6 | 4453.0 |
| 32.5° | 4391.1 | 4443.7 | 4552.1 | 4759.6 | 4911.3 | 5022.8 | 5050.7 | 5025.9 | 4852.5 | 4837.0 | 4868.0 |
| 35° | 4895.8 | 4967.0 | 5066.1 | 5248.8 | 5372.7 | 5574.0 | 5574.0 | 5490.4 | 5332.5 | 5351.0 | 5347.9 |
| 37.5° | 5428.5 | 5533.7 | 5688.6 | 5874.4 | 6041.6 | 6150.0 | 6115.9 | 6044.7 | 5886.8 | 5846.5 | 5886.8 |
| 40° | 6097.3 | 6150.0 | 6345.1 | 6586.6 | 6791.0 | 6914.8 | 6769.3 | 6614.5 | 6236.7 | 6295.5 | 6403.9 |
| 42.5° | 6707.4 | 6791.0 | 6939.6 | 7205.9 | 7438.2 | 7540.4 | 7367.0 | 7060.4 | 6605.2 | 6558.7 | 6639.2 |
| 45° | 7227.6 | 7317.4 | 7512.5 | 7893.4 | 8138.0 | 8227.8 | 7843.8 | 7348.4 | 6828.1 | 6710.5 | 6744.5 |
| 47.5° | 7574.4 | 7620.9 | 7893.4 | 8255.7 | 8478.7 | 8683.0 | 8131.8 | 7546.6 | 6933.4 | 6710.5 | 6698.1 |
| 50° | 7441.3 | 7521.8 | 7840.8 | 8252.6 | 8658.3 | 8803.8 | 8277.4 | 7698.3 | 6967.5 | 6682.6 | 6645.4 |
| 52.5° | 6608.3 | 6747.6 | 7103.7 | 7658.0 | 8271.2 | 8791.4 | 8478.7 | 7648.8 | 6955.1 | 6710.5 | 6766.2 |
| 55° | 4598.5 | 4601.6 | 5035.2 | 5852.7 | 6936.5 | 8162.8 | 8184.5 | 7704.5 | 7035.6 | 6883.9 | 6887.0 |
| 57.5° | 1848.7 | 1941.6 | 2273.0 | 3093.6 | 4093.8 | 5605.0 | 6664.0 | 7147.1 | 7044.9 | 7007.7 | 7103.7 |
| 60° | 467.6 | 470.7 | 572.9 | 873.3 | 1439.9 | 2403.0 | 3489.9 | 4722.4 | 5437.7 | 5682.4 | 5716.4 |
| 62.5° | 238.4 | 241.5 | 266.3 | 309.7 | 393.3 | 644.1 | 1145.8 | 1817.7 | 2585.7 | 2975.9 | 3078.1 |
| 65° | 195.1 | 195.1 | 210.6 | 232.2 | 235.3 | 247.7 | 297.3 | 424.2 | 616.2 | 699.8 | 709.1 |
| 67.5° | 148.6 | 148.6 | 161.0 | 173.4 | 179.6 | 176.5 | 170.3 | 176.5 | 213.7 | 204.4 | 198.2 |
| 70° | 92.9 | 96.0 | 102.2 | 114.6 | 120.8 | 123.9 | 127.0 | 133.2 | 151.7 | 157.9 | 151.7 |
| 72.5° | 55.7 | 55.7 | 58.8 | 68.1 | 77.4 | 83.6 | 92.9 | 99.1 | 108.4 | 123.9 | 120.8 |
| 75° | 24.8 | 24.8 | 31.0 | 40.3 | 49.5 | 58.8 | 68.1 | 77.4 | 83.6 | 92.9 | 96.0 |
| 77.5° | 6.2 | 9.3 | 15.5 | 27.9 | 37.2 | 49.5 | 61.9 | 71.2 | 77.4 | 77.4 | 74.3 |
| 80° | 3.1 | 3.1 | 12.4 | 21.7 | 40.3 | 52.6 | 68.1 | 74.3 | 83.6 | 77.4 | 68.1 |
| 82.5° | 3.1 | 3.1 | 12.4 | 21.7 | 37.2 | 52.6 | 71.2 | 80.5 | 86.7 | 77.4 | 65.0 |
| 85° | 0.0 | 3.1 | 9.3 | 18.6 | 31.0 | 37.2 | 31.0 | 21.7 | 12.4 | 12.4 | 9.3 |
| 87.5° | 0.0 | 0.0 | 3.1 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)