

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P639943

Luminaire Tested: GWS-SA5C-830-U-5NQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639943
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-830-U-5NQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19771.4 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

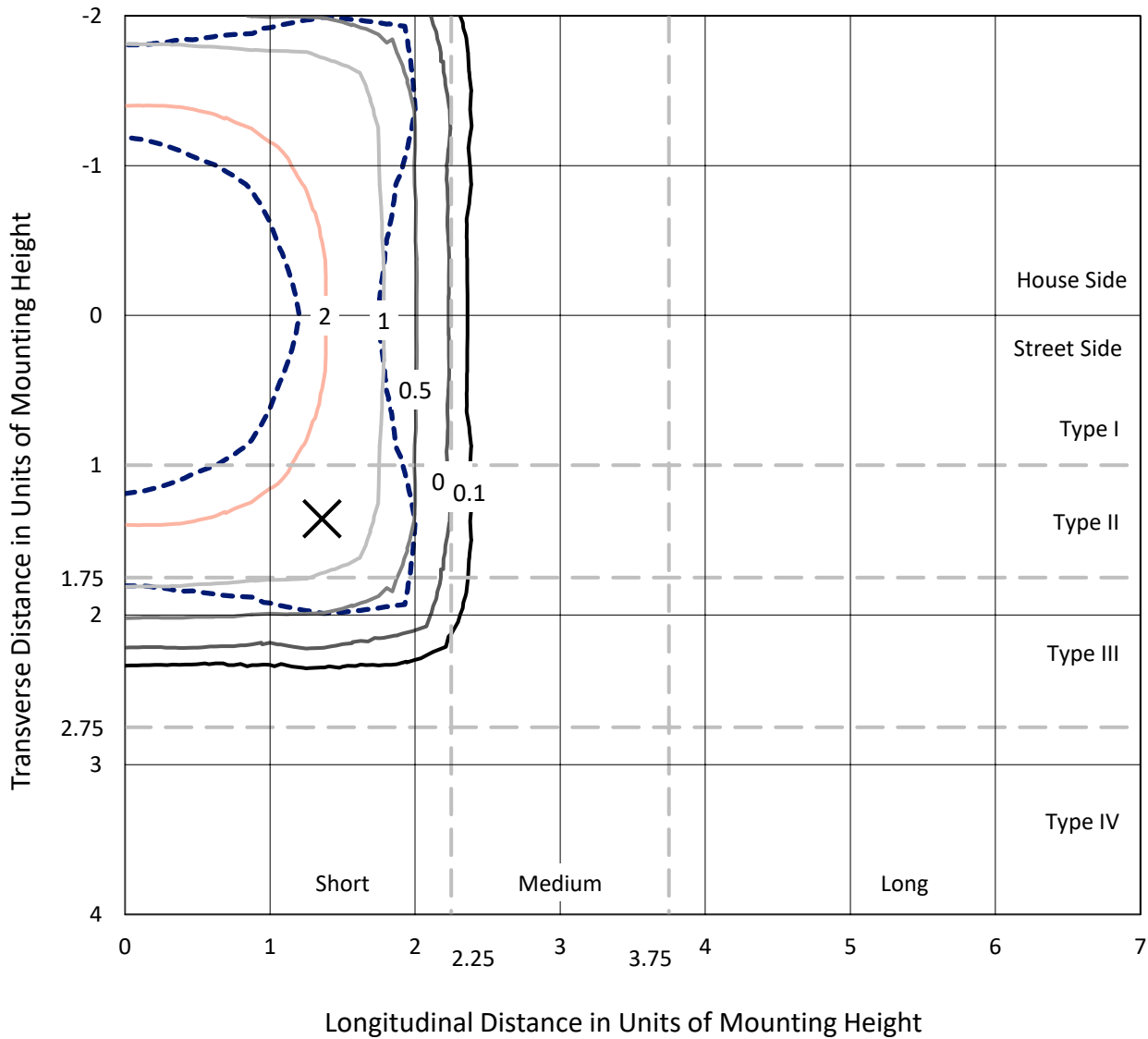
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

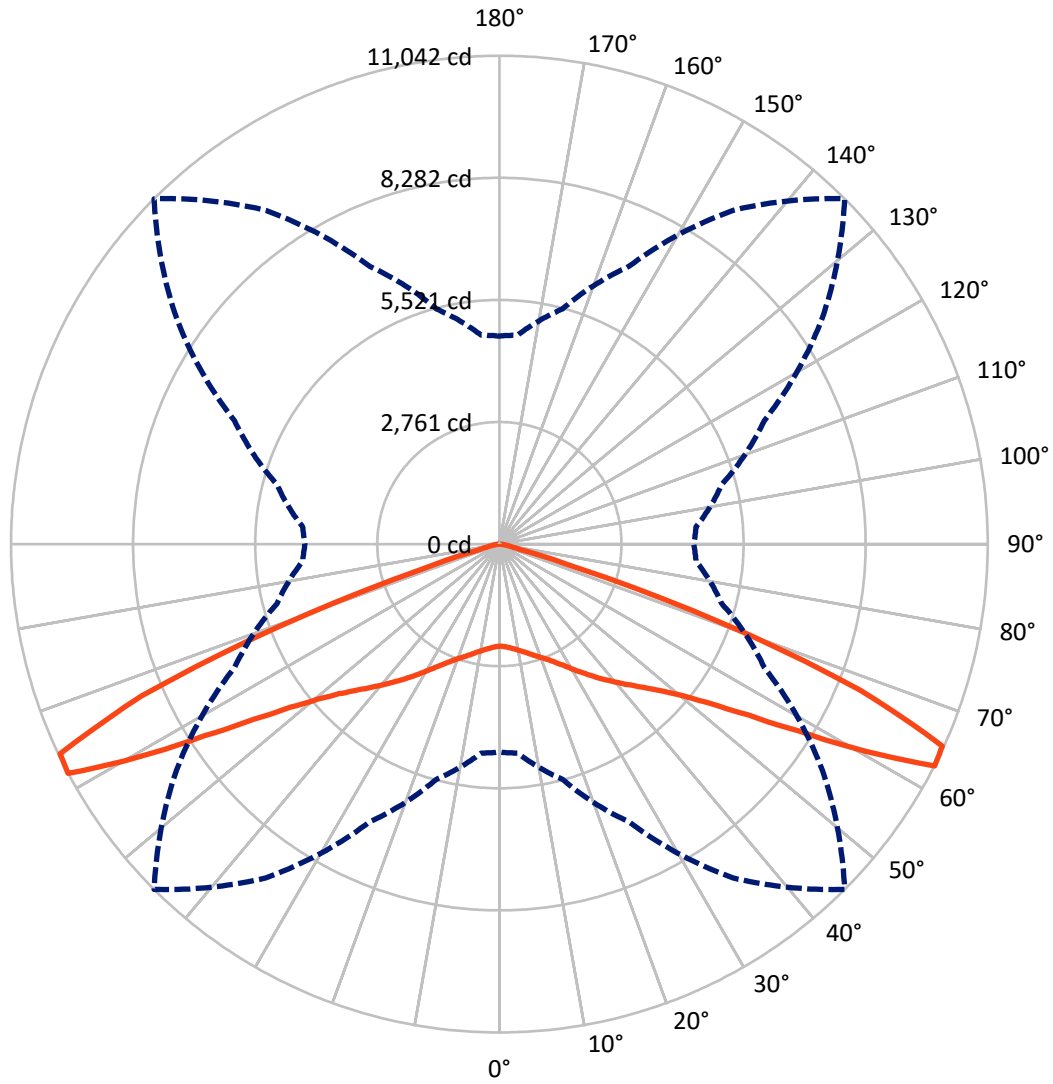
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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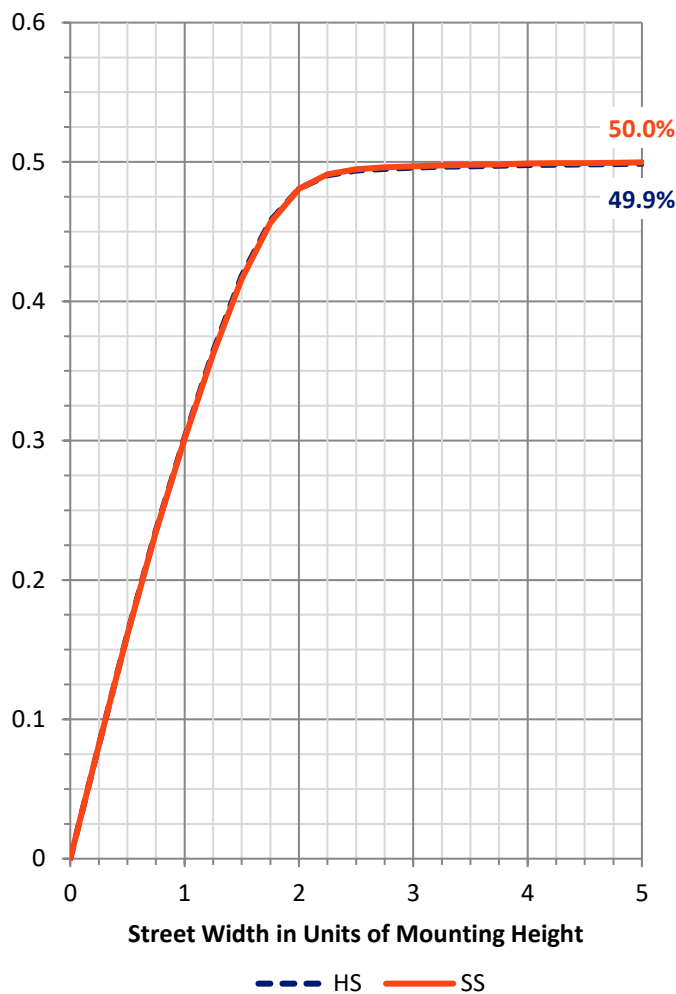
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9885.7 | 0.0 | 9885.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9885.7 | 0.0 | 9885.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 19771.4 | 0.0 | 19771.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 226.3 | 1.1 |
| 10°-20° | 729.8 | 3.7 |
| 20°-30° | 1380.7 | 7.0 |
| 30°-40° | 2323.9 | 11.8 |
| 40°-50° | 3713.0 | 18.8 |
| 50°-60° | 5985.1 | 30.3 |
| 60°-70° | 4883.2 | 24.7 |
| 70°-80° | 474.2 | 2.4 |
| 80°-90° | 55.2 | 0.3 |
| 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° | 19771.4 | 100.0 |
| 0°-180° | 19771.4 | 100.0 |

Coefficient of Utilization



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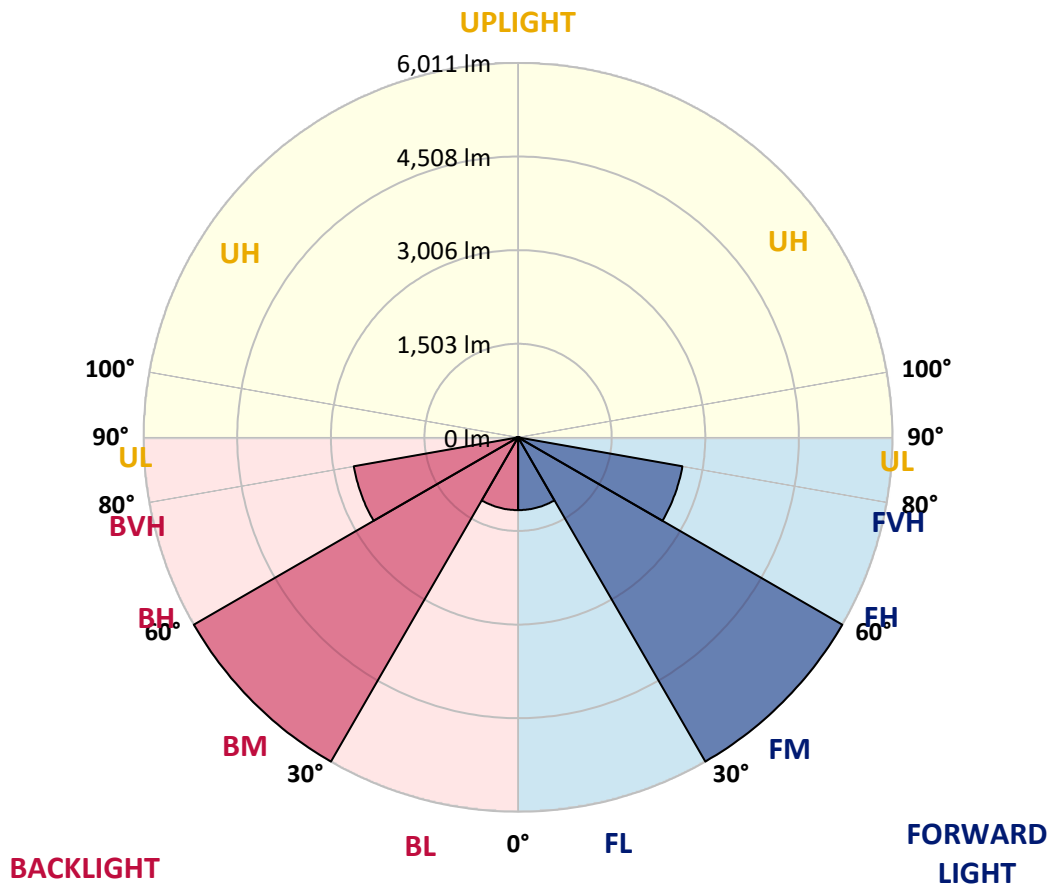
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1168.4 | 5.9 | | | |
| FM (30°-60°) | 6011.0 | 30.4 | | | |
| FH (60°-80°) | 2678.7 | 13.5 | | | G2/5000 |
| FVH (80°-90°) | 27.6 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1168.4 | 5.9 | B3/2500 | | |
| BM (30°-60°) | 6011.0 | 30.4 | B4/8500 | | |
| BH (60°-80°) | 2678.7 | 13.5 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 27.6 | 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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| 0° | 2306.6 | 2306.6 | 2306.6 | 2306.6 | 2306.6 | 2306.6 | 2306.6 | 2306.6 | 2306.6 | 2306.6 | 2306.6 |
| 2.5° | 2303.9 | 2303.9 | 2309.3 | 2313.4 | 2310.7 | 2321.5 | 2320.2 | 2317.4 | 2316.1 | 2312.0 | 2324.2 |
| 5° | 2335.1 | 2335.1 | 2339.1 | 2343.2 | 2336.4 | 2350.0 | 2344.6 | 2341.9 | 2340.5 | 2335.1 | 2345.9 |
| 7.5° | 2370.3 | 2374.4 | 2375.8 | 2382.5 | 2378.5 | 2393.4 | 2389.3 | 2383.9 | 2381.2 | 2374.4 | 2383.9 |
| 10° | 2409.7 | 2412.4 | 2413.7 | 2425.9 | 2427.3 | 2444.9 | 2440.8 | 2434.1 | 2428.6 | 2421.9 | 2435.4 |
| 12.5° | 2462.5 | 2463.9 | 2468.0 | 2482.9 | 2487.0 | 2500.5 | 2499.2 | 2489.7 | 2482.9 | 2473.4 | 2488.3 |
| 15° | 2530.3 | 2531.7 | 2538.5 | 2553.4 | 2560.2 | 2576.4 | 2571.0 | 2556.1 | 2546.6 | 2535.8 | 2548.0 |
| 17.5° | 2600.9 | 2606.3 | 2613.1 | 2628.0 | 2637.5 | 2656.5 | 2649.7 | 2633.4 | 2625.3 | 2614.4 | 2622.6 |
| 20° | 2691.7 | 2693.1 | 2697.1 | 2713.4 | 2720.2 | 2741.9 | 2743.2 | 2727.0 | 2722.9 | 2712.1 | 2724.3 |
| 22.5° | 2792.1 | 2793.4 | 2797.5 | 2815.1 | 2827.3 | 2840.9 | 2849.0 | 2839.5 | 2832.7 | 2819.2 | 2834.1 |
| 25° | 2903.3 | 2916.8 | 2920.9 | 2942.6 | 2956.1 | 2964.3 | 2973.8 | 2969.7 | 2960.2 | 2943.9 | 2950.7 |
| 27.5° | 3059.2 | 3061.9 | 3068.7 | 3093.1 | 3101.2 | 3109.4 | 3118.9 | 3120.2 | 3106.7 | 3087.7 | 3097.2 |
| 30° | 3236.8 | 3235.5 | 3250.4 | 3269.4 | 3276.2 | 3282.9 | 3296.5 | 3304.6 | 3287.0 | 3266.7 | 3276.2 |
| 32.5° | 3418.5 | 3434.8 | 3453.8 | 3471.4 | 3467.4 | 3470.1 | 3491.8 | 3506.7 | 3482.3 | 3445.7 | 3453.8 |
| 35° | 3623.3 | 3634.1 | 3658.6 | 3684.3 | 3678.9 | 3674.8 | 3688.4 | 3703.3 | 3669.4 | 3621.9 | 3634.1 |
| 37.5° | 3833.5 | 3849.8 | 3886.4 | 3917.6 | 3909.4 | 3890.4 | 3905.4 | 3921.6 | 3889.1 | 3834.8 | 3829.4 |
| 40° | 4068.1 | 4093.8 | 4146.7 | 4172.5 | 4150.8 | 4114.2 | 4139.9 | 4179.3 | 4146.7 | 4084.4 | 4069.4 |
| 42.5° | 4343.4 | 4374.5 | 4427.4 | 4466.8 | 4419.3 | 4359.6 | 4403.0 | 4460.0 | 4451.8 | 4369.1 | 4343.4 |
| 45° | 4683.7 | 4704.1 | 4769.1 | 4788.1 | 4717.6 | 4634.9 | 4713.5 | 4800.3 | 4780.0 | 4690.5 | 4656.6 |
| 47.5° | 5053.9 | 5085.1 | 5142.1 | 5177.3 | 5063.4 | 4960.3 | 5070.2 | 5186.8 | 5165.1 | 5081.0 | 5041.7 |
| 50° | 5525.8 | 5566.5 | 5641.1 | 5670.9 | 5513.6 | 5395.6 | 5536.7 | 5684.5 | 5642.4 | 5529.9 | 5478.3 |
| 52.5° | 6039.7 | 6072.3 | 6199.8 | 6259.4 | 6111.6 | 5984.1 | 6107.5 | 6252.6 | 6163.1 | 6014.0 | 5944.8 |
| 55° | 6492.7 | 6525.2 | 6712.3 | 6910.3 | 6903.5 | 6815.4 | 6877.8 | 6880.5 | 6637.7 | 6391.0 | 6317.7 |
| 57.5° | 6590.3 | 6622.8 | 6979.5 | 7497.5 | 7863.6 | 7965.3 | 7782.2 | 7397.1 | 6785.6 | 6353.0 | 6270.3 |
| 60° | 6069.6 | 6106.2 | 6673.0 | 7619.5 | 8823.7 | 9503.0 | 8659.6 | 7386.3 | 6328.6 | 5742.8 | 5664.1 |
| 62.5° | 4702.7 | 4742.0 | 5504.1 | 6925.2 | 9211.5 | 11042.1 | 8914.5 | 6609.3 | 5205.8 | 4464.0 | 4394.9 |
| 65° | 2245.6 | 2245.6 | 3213.8 | 4967.1 | 8438.6 | 11005.5 | 8176.8 | 4889.8 | 3133.8 | 2406.9 | 2347.3 |
| 67.5° | 556.0 | 558.7 | 827.2 | 1933.7 | 5740.1 | 8783.0 | 5833.6 | 2347.3 | 1103.8 | 781.1 | 760.7 |
| 70° | 347.1 | 345.8 | 383.8 | 523.4 | 2008.3 | 5330.5 | 2385.2 | 707.8 | 448.8 | 396.0 | 393.2 |
| 72.5° | 269.8 | 269.8 | 288.8 | 334.9 | 526.1 | 1815.7 | 695.6 | 393.2 | 325.4 | 292.9 | 292.9 |
| 75° | 212.9 | 212.9 | 226.5 | 250.9 | 310.5 | 467.8 | 370.2 | 291.5 | 252.2 | 230.5 | 227.8 |
| 77.5° | 158.7 | 161.4 | 172.2 | 188.5 | 211.5 | 263.1 | 234.6 | 219.7 | 196.6 | 180.4 | 174.9 |
| 80° | 103.1 | 107.1 | 120.7 | 130.2 | 138.3 | 173.6 | 153.2 | 160.0 | 149.2 | 130.2 | 127.5 |
| 82.5° | 55.6 | 57.0 | 73.2 | 75.9 | 78.6 | 94.9 | 97.6 | 101.7 | 105.8 | 82.7 | 77.3 |
| 85° | 20.3 | 20.3 | 24.4 | 28.5 | 31.2 | 33.9 | 46.1 | 57.0 | 59.7 | 47.5 | 46.1 |
| 87.5° | 4.1 | 4.1 | 4.1 | 2.7 | 2.7 | 2.7 | 8.1 | 14.9 | 24.4 | 19.0 | 19.0 |
| 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)