

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: P642586

Luminaire Tested: GWS-SA6D-730-U-5WQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642586
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-730-U-5WQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33069.9 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

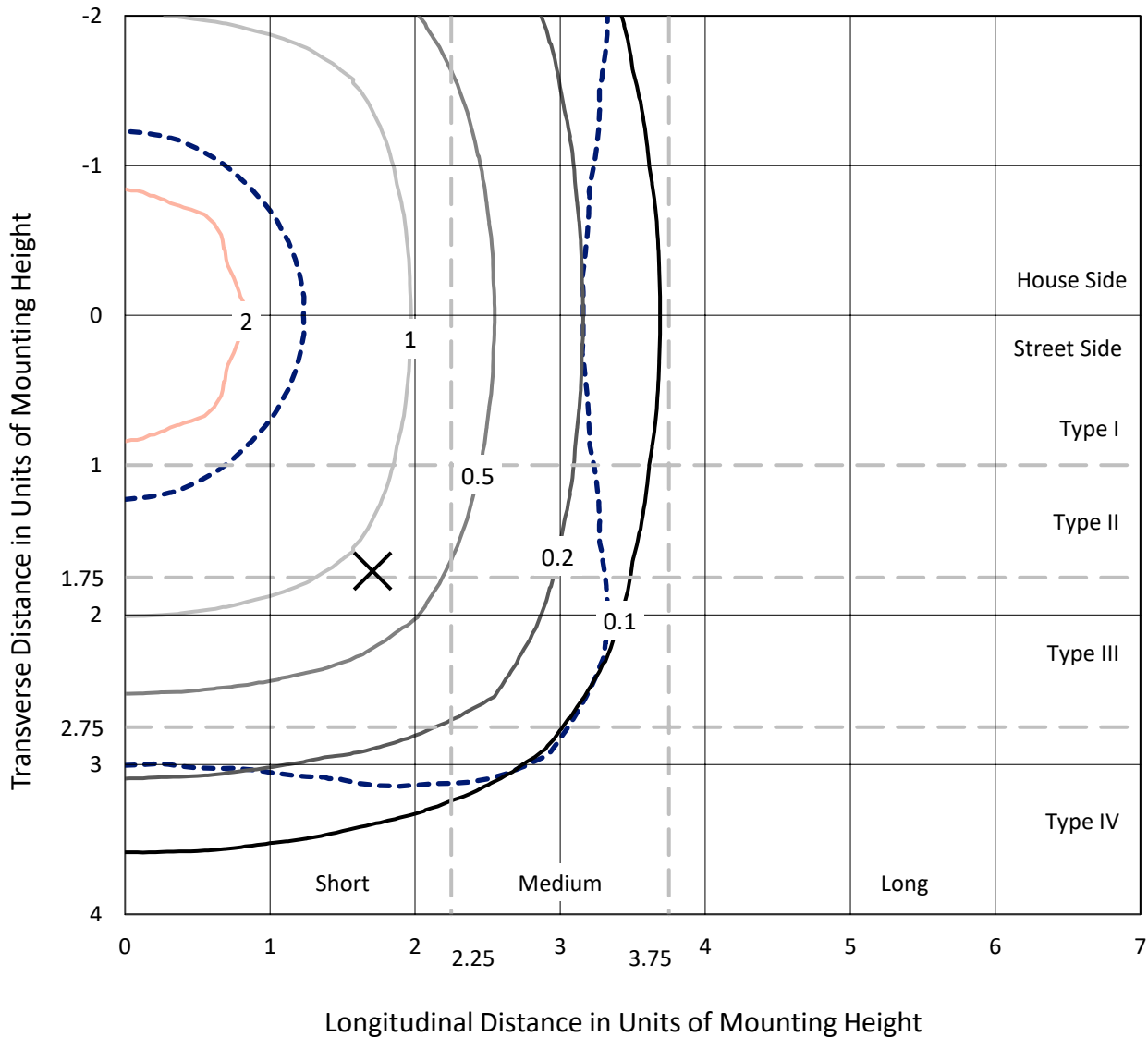
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

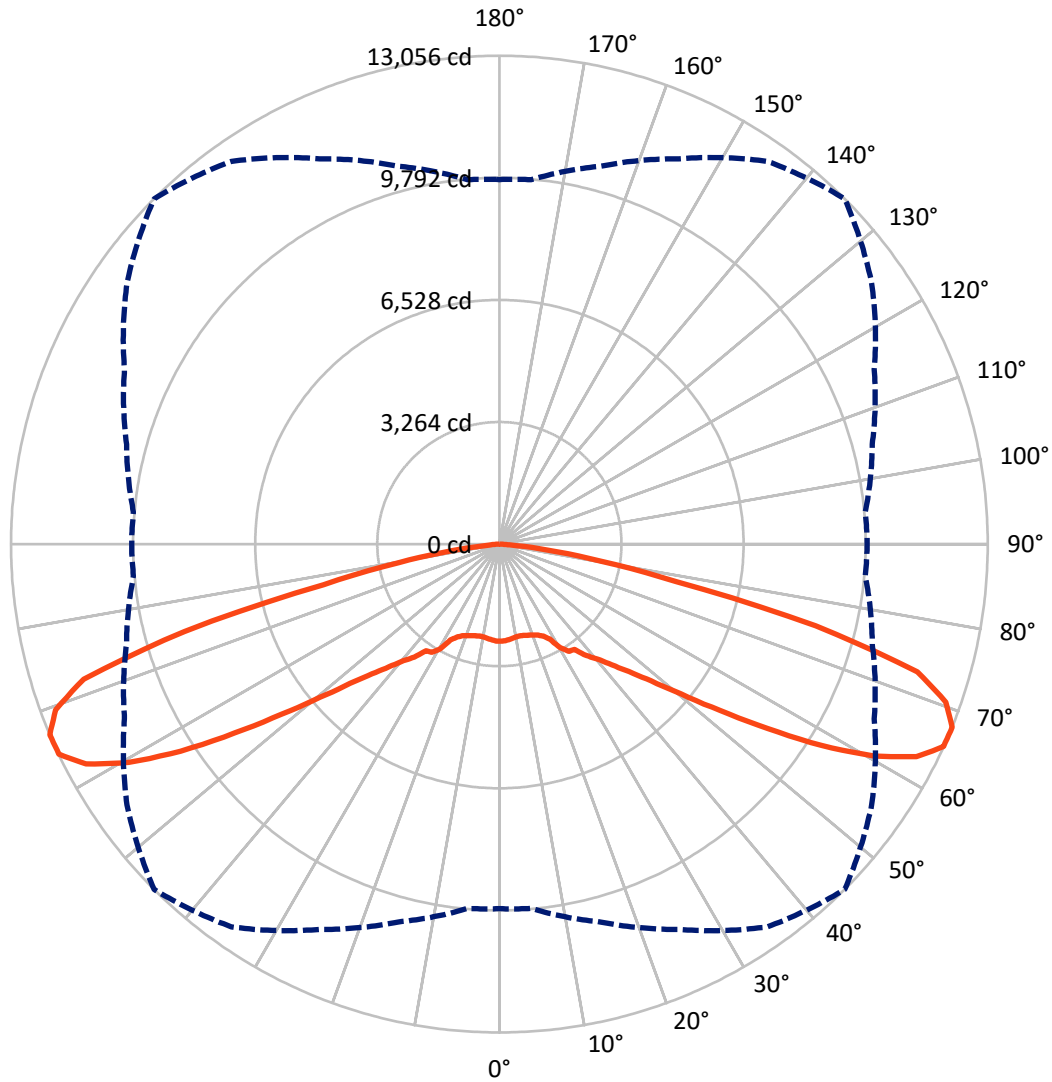
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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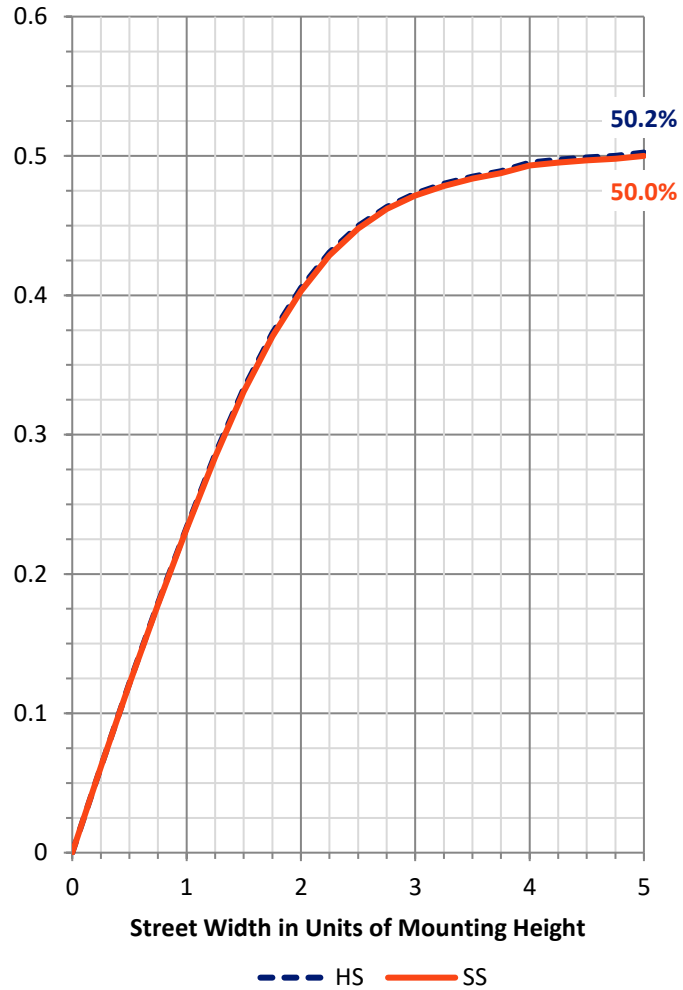
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 16534.9 | 0.0 | 16534.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 16534.9 | 0.0 | 16534.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 33069.9 | 0.0 | 33069.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 243.5 | 0.7 |
| 10°-20° | 722.6 | 2.2 |
| 20°-30° | 1296.2 | 3.9 |
| 30°-40° | 2189.7 | 6.6 |
| 40°-50° | 3847.3 | 11.6 |
| 50°-60° | 7421.6 | 22.4 |
| 60°-70° | 10767.7 | 32.6 |
| 70°-80° | 6160.8 | 18.6 |
| 80°-90° | 420.5 | 1.3 |
| 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° | 33069.9 | 100.0 |
| 0°-180° | 33069.9 | 100.0 |

Coefficient of Utilization



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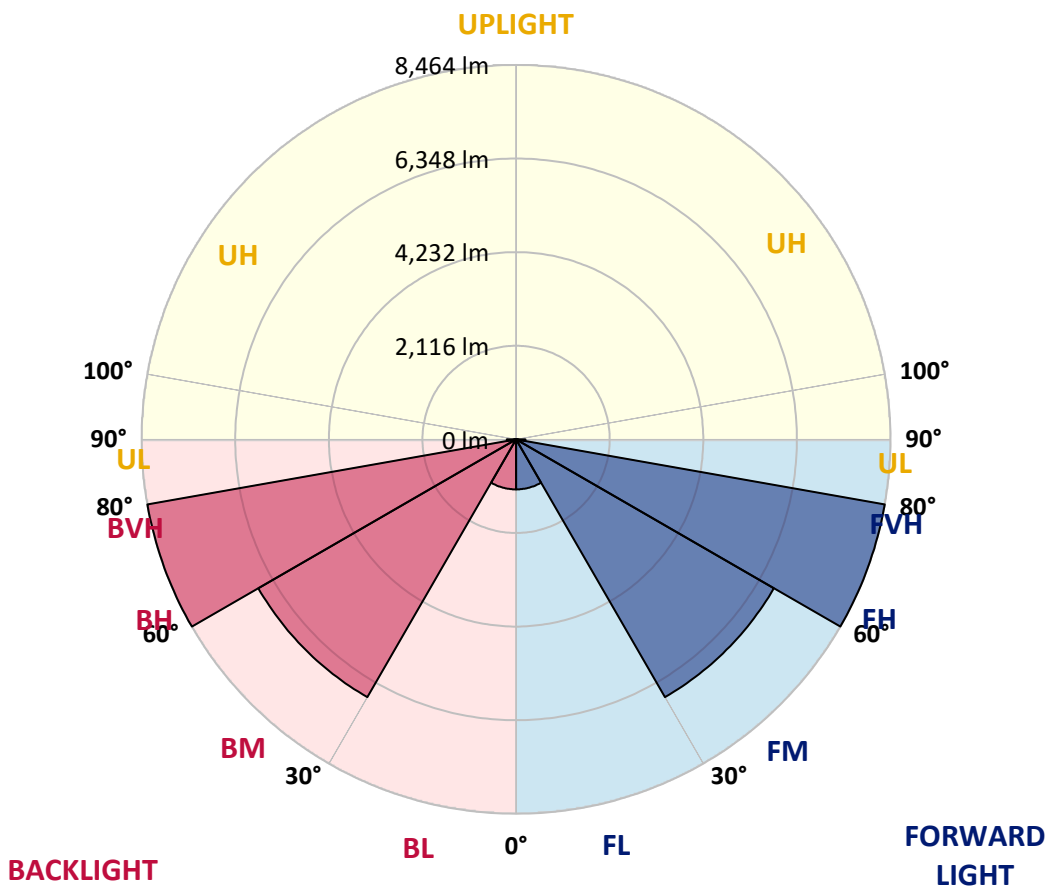
CATALOG NUMBER: GWS-SA6D-730-U-5WQ-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1131.2 | 3.4 | | | |
| FM (30°-60°) | 6729.3 | 20.3 | | | |
| FH (60°-80°) | 8464.3 | 25.6 | | | G4/12000 |
| FVH (80°-90°) | 210.2 | 0.6 | | | G2/225 |
| BL (0°-30°) | 1131.2 | 3.4 | B3/2500 | | |
| BM (30°-60°) | 6729.3 | 20.3 | B4/8500 | | |
| BH (60°-80°) | 8464.3 | 25.6 | B5 | | G4/12000 |
| BVH (80°-90°) | 210.2 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2593.4 | 2593.4 | 2593.4 | 2593.4 | 2593.4 | 2593.4 | 2593.4 | 2593.4 | 2593.4 | 2593.4 | 2593.4 |
| 2.5° | 2572.3 | 2574.6 | 2579.3 | 2579.3 | 2584.0 | 2591.0 | 2593.4 | 2588.7 | 2591.0 | 2579.3 | 2591.0 |
| 5° | 2565.3 | 2567.6 | 2570.0 | 2565.3 | 2565.3 | 2567.6 | 2567.6 | 2563.0 | 2565.3 | 2553.6 | 2565.3 |
| 7.5° | 2548.9 | 2551.3 | 2551.3 | 2544.2 | 2537.2 | 2541.9 | 2541.9 | 2537.2 | 2539.6 | 2527.9 | 2541.9 |
| 10° | 2534.9 | 2534.9 | 2532.6 | 2518.5 | 2511.5 | 2518.5 | 2520.9 | 2523.2 | 2532.6 | 2523.2 | 2539.6 |
| 12.5° | 2544.2 | 2544.2 | 2537.2 | 2518.5 | 2506.8 | 2511.5 | 2516.2 | 2520.9 | 2537.2 | 2534.9 | 2553.6 |
| 15° | 2570.0 | 2572.3 | 2553.6 | 2532.6 | 2525.5 | 2532.6 | 2527.9 | 2525.5 | 2546.6 | 2553.6 | 2574.6 |
| 17.5° | 2591.0 | 2591.0 | 2567.6 | 2546.6 | 2548.9 | 2560.6 | 2551.3 | 2539.6 | 2560.6 | 2574.6 | 2598.0 |
| 20° | 2609.7 | 2607.4 | 2581.7 | 2567.6 | 2577.0 | 2593.4 | 2586.3 | 2570.0 | 2584.0 | 2600.4 | 2621.4 |
| 22.5° | 2656.5 | 2654.2 | 2626.1 | 2619.1 | 2628.4 | 2644.8 | 2637.8 | 2623.8 | 2640.1 | 2663.5 | 2689.2 |
| 25° | 2789.8 | 2785.1 | 2743.0 | 2719.6 | 2715.0 | 2726.6 | 2724.3 | 2719.6 | 2745.4 | 2773.4 | 2803.8 |
| 27.5° | 2967.5 | 2965.2 | 2934.8 | 2911.4 | 2881.0 | 2871.6 | 2878.6 | 2899.7 | 2937.1 | 2958.2 | 2983.9 |
| 30° | 3056.4 | 3056.4 | 3051.7 | 3089.1 | 3154.6 | 3217.7 | 3168.6 | 3089.1 | 3056.4 | 3047.0 | 3072.7 |
| 32.5° | 3173.3 | 3185.0 | 3168.6 | 3210.7 | 3320.6 | 3414.2 | 3320.6 | 3192.0 | 3168.6 | 3168.6 | 3196.7 |
| 35° | 3442.2 | 3446.9 | 3421.2 | 3414.2 | 3449.2 | 3460.9 | 3416.5 | 3369.7 | 3395.4 | 3400.1 | 3435.2 |
| 37.5° | 3657.4 | 3657.4 | 3645.7 | 3664.4 | 3736.9 | 3781.3 | 3708.8 | 3624.6 | 3631.6 | 3636.3 | 3680.7 |
| 40° | 3989.4 | 3998.8 | 3970.7 | 3968.4 | 3996.4 | 4036.2 | 3959.0 | 3905.2 | 3942.6 | 3954.3 | 4022.2 |
| 42.5° | 4403.3 | 4403.3 | 4361.2 | 4349.5 | 4368.2 | 4410.3 | 4337.8 | 4302.8 | 4351.9 | 4361.2 | 4401.0 |
| 45° | 4896.7 | 4908.4 | 4852.3 | 4831.3 | 4840.6 | 4854.6 | 4803.2 | 4786.8 | 4833.6 | 4854.6 | 4924.8 |
| 47.5° | 5497.7 | 5509.4 | 5460.3 | 5458.0 | 5448.6 | 5458.0 | 5408.9 | 5399.5 | 5436.9 | 5420.6 | 5495.4 |
| 50° | 6239.0 | 6260.1 | 6218.0 | 6276.4 | 6269.4 | 6297.5 | 6229.7 | 6180.6 | 6180.6 | 6136.1 | 6178.2 |
| 52.5° | 7069.2 | 7111.3 | 7132.3 | 7230.5 | 7305.4 | 7375.5 | 7263.3 | 7186.1 | 7073.8 | 6982.6 | 7097.2 |
| 55° | 7974.2 | 7962.5 | 8095.8 | 8310.9 | 8530.7 | 8696.7 | 8476.9 | 8233.7 | 8051.3 | 7861.9 | 7906.3 |
| 57.5° | 8766.9 | 8806.7 | 8982.0 | 9374.9 | 9809.9 | 10160.6 | 9765.4 | 9297.7 | 8883.8 | 8612.6 | 8650.0 |
| 60° | 9426.3 | 9459.1 | 9692.9 | 10258.8 | 11018.8 | 11502.9 | 10876.2 | 10104.5 | 9503.5 | 9129.4 | 9169.1 |
| 62.5° | 10034.3 | 10064.7 | 10300.9 | 10925.3 | 11884.1 | 12515.5 | 11706.3 | 10651.7 | 9982.9 | 9606.4 | 9629.8 |
| 65° | 10385.1 | 10403.8 | 10726.5 | 11383.6 | 12393.9 | 13046.3 | 12134.3 | 11046.9 | 10389.8 | 10006.3 | 10020.3 |
| 67.5° | 9746.7 | 9777.1 | 10457.6 | 11364.9 | 12492.1 | 13055.6 | 12153.0 | 11058.6 | 10319.6 | 9819.2 | 9830.9 |
| 70° | 7688.9 | 7663.1 | 8474.6 | 10034.3 | 11928.5 | 12662.8 | 11612.8 | 10228.4 | 9087.3 | 8388.1 | 8376.4 |
| 72.5° | 5862.5 | 5869.5 | 6320.9 | 7389.5 | 9725.7 | 11685.3 | 10247.1 | 8236.1 | 7006.0 | 6475.2 | 6454.2 |
| 75° | 4251.3 | 4316.8 | 4683.9 | 5467.3 | 6802.6 | 8734.2 | 7714.6 | 6103.4 | 5280.2 | 4962.2 | 4915.4 |
| 77.5° | 1915.2 | 1999.4 | 2511.5 | 3432.9 | 4548.3 | 4826.6 | 4845.3 | 4143.8 | 3126.5 | 2598.0 | 2516.2 |
| 80° | 558.9 | 598.6 | 769.4 | 1316.6 | 2118.6 | 2738.3 | 2174.8 | 1828.7 | 1138.8 | 893.3 | 851.2 |
| 82.5° | 236.2 | 268.9 | 329.7 | 364.8 | 615.0 | 1269.8 | 790.4 | 502.8 | 467.7 | 378.8 | 346.1 |
| 85° | 100.6 | 107.6 | 138.0 | 147.3 | 198.8 | 271.3 | 250.2 | 226.8 | 217.5 | 168.4 | 154.3 |
| 87.5° | 42.1 | 42.1 | 42.1 | 37.4 | 35.1 | 37.4 | 51.4 | 65.5 | 86.5 | 67.8 | 63.1 |
| 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)