

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: P316281

Luminaire Tested: **GLEON-SA7B-827-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7B-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31298 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

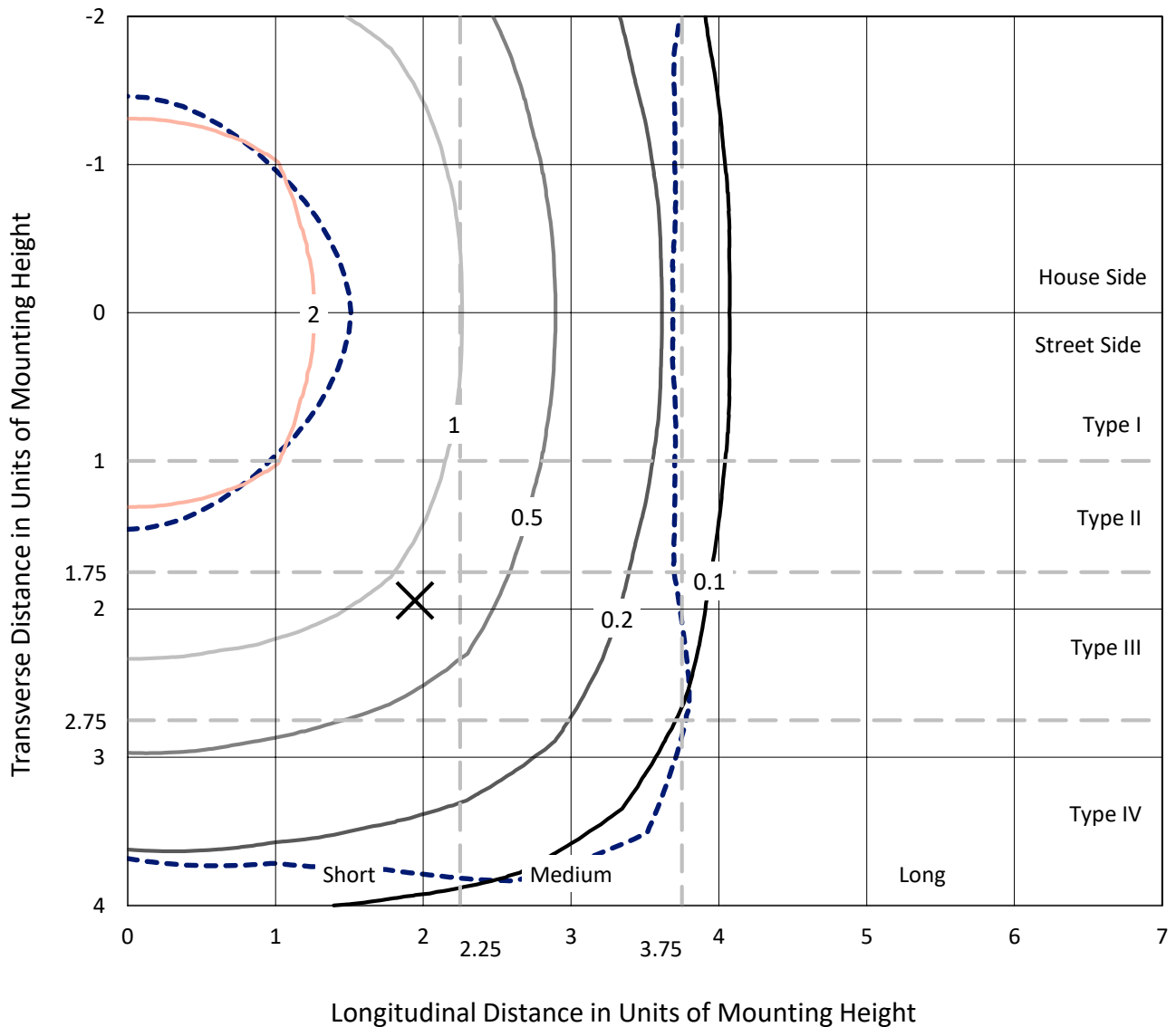
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P316281
 CATALOG NUMBER: GLEON-SA7B-827-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

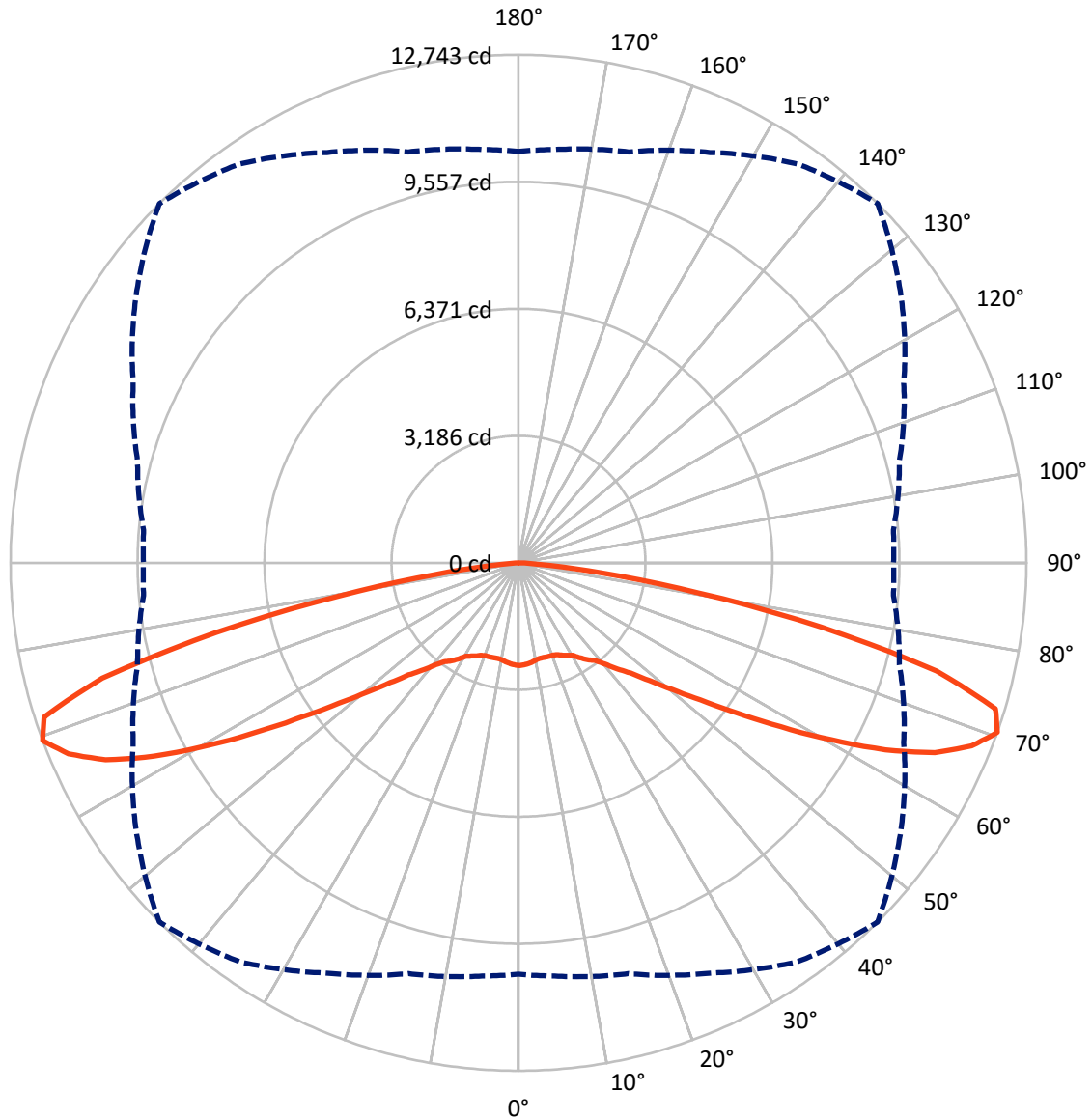
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - N/A

REPORT NUMBER: P316281
CATALOG NUMBER: GLEON-SA7B-827-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P316281
 CATALOG NUMBER: GLEON-SA7B-827-U-5WQ

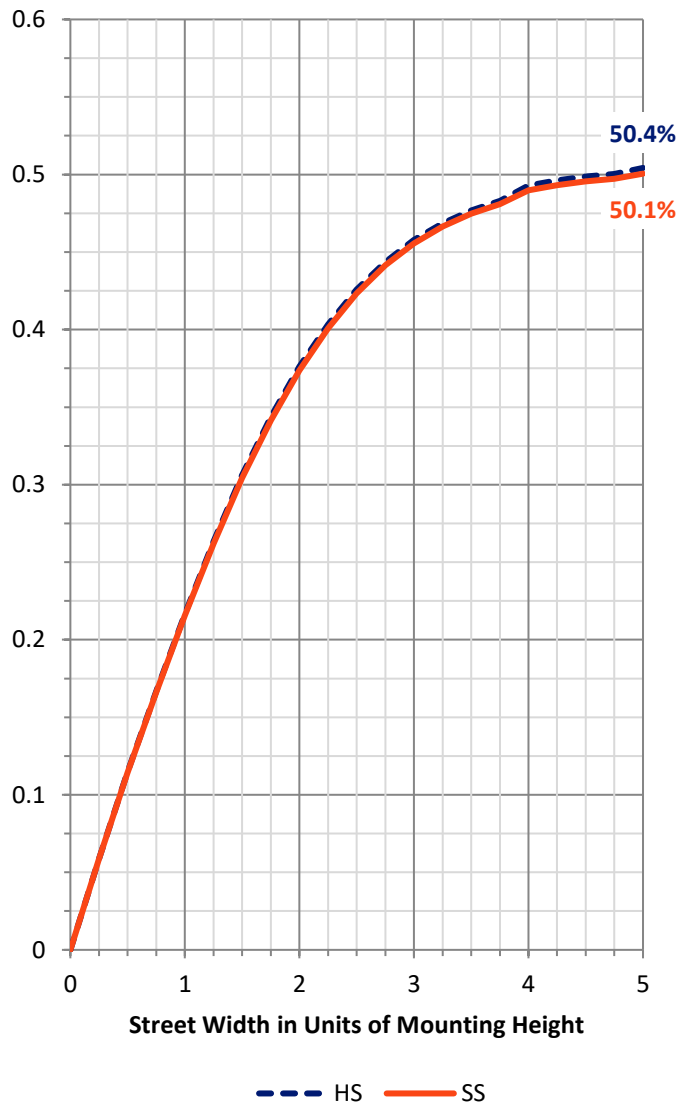
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 15649.0 | 0.0 | 15649.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 15649.0 | 0.0 | 15649.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 31298.0 | 0.0 | 31298.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 240.4 | 0.8 |
| 10°-20° | 702.2 | 2.2 |
| 20°-30° | 1197.3 | 3.8 |
| 30°-40° | 1870.8 | 6.0 |
| 40°-50° | 3170.6 | 10.1 |
| 50°-60° | 5781.9 | 18.5 |
| 60°-70° | 9953.9 | 31.8 |
| 70°-80° | 7802.2 | 24.9 |
| 80°-90° | 578.5 | 1.8 |
| 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° | 31298.0 | 100.0 |
| 0°-180° | 31298.0 | 100.0 |

Coefficient of Utilization

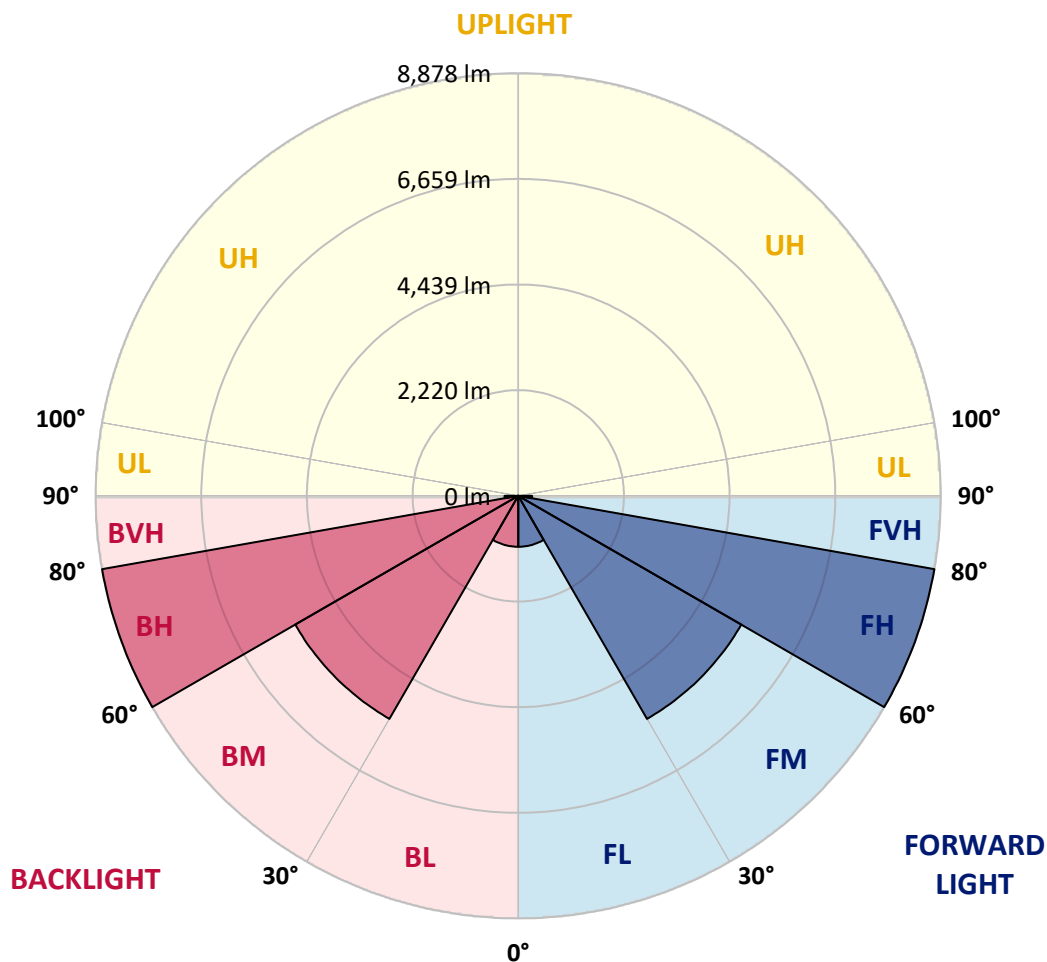


REPORT NUMBER: P316281
 CATALOG NUMBER: GLEON-SA7B-827-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1070.0 | 3.4 | | | |
| FM (30°-60°) | 5411.7 | 17.3 | | | |
| FH (60°-80°) | 8878.1 | 28.4 | | | G4/12000 |
| FVH (80°-90°) | 289.3 | 0.9 | | | G3/500 |
| BL (0°-30°) | 1070.0 | 3.4 | B3/2500 | | |
| BM (30°-60°) | 5411.7 | 17.3 | B4/8500 | | |
| BH (60°-80°) | 8878.1 | 28.4 | B5 | | G4/12000 |
| BVH (80°-90°) | 289.3 | 0.9 | | | G3/500 |
| 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





REPORT NUMBER: P316281
 CATALOG NUMBER: GLEON-SA7B-827-U-5WQ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 2575.8 | 2575.8 | 2575.8 | 2575.8 | 2575.8 | 2575.8 | 2575.8 | 2575.8 | 2575.8 | 2575.8 | 2575.8 |
| 2.5° | 2564.4 | 2567.5 | 2564.4 | 2566.5 | 2561.3 | 2563.4 | 2563.4 | 2563.4 | 2562.4 | 2563.4 | 2561.3 |
| 5° | 2541.7 | 2543.7 | 2539.6 | 2541.7 | 2538.6 | 2541.7 | 2542.7 | 2541.7 | 2539.6 | 2540.6 | 2536.5 |
| 7.5° | 2507.5 | 2509.6 | 2506.5 | 2509.6 | 2505.4 | 2510.6 | 2509.6 | 2506.5 | 2503.4 | 2503.4 | 2499.2 |
| 10° | 2488.9 | 2489.9 | 2481.6 | 2478.5 | 2469.2 | 2471.3 | 2474.4 | 2477.5 | 2480.6 | 2486.8 | 2485.8 |
| 12.5° | 2489.9 | 2489.9 | 2477.5 | 2464.0 | 2450.6 | 2453.7 | 2458.8 | 2470.2 | 2482.7 | 2494.0 | 2495.1 |
| 15° | 2500.3 | 2499.2 | 2480.6 | 2458.8 | 2449.5 | 2458.8 | 2461.9 | 2469.2 | 2488.9 | 2508.5 | 2509.6 |
| 17.5° | 2507.5 | 2507.5 | 2478.5 | 2453.7 | 2452.6 | 2467.1 | 2466.1 | 2469.2 | 2490.9 | 2519.9 | 2521.0 |
| 20° | 2521.0 | 2521.0 | 2483.7 | 2456.8 | 2456.8 | 2472.3 | 2473.3 | 2478.5 | 2500.3 | 2532.3 | 2537.5 |
| 22.5° | 2551.0 | 2552.0 | 2512.7 | 2490.9 | 2493.0 | 2502.3 | 2505.4 | 2513.7 | 2533.4 | 2568.6 | 2574.8 |
| 25° | 2593.4 | 2595.5 | 2555.1 | 2542.7 | 2549.9 | 2567.5 | 2565.5 | 2571.7 | 2593.4 | 2627.6 | 2633.8 |
| 27.5° | 2652.4 | 2647.3 | 2610.0 | 2604.8 | 2612.1 | 2624.5 | 2623.5 | 2624.5 | 2642.1 | 2673.1 | 2680.4 |
| 30° | 2729.1 | 2727.0 | 2700.1 | 2703.2 | 2700.1 | 2695.9 | 2697.0 | 2705.2 | 2714.6 | 2739.4 | 2746.7 |
| 32.5° | 2803.6 | 2805.7 | 2789.1 | 2804.6 | 2827.4 | 2842.9 | 2819.1 | 2796.3 | 2786.0 | 2799.5 | 2805.7 |
| 35° | 2938.2 | 2943.4 | 2917.5 | 2907.1 | 2938.2 | 2983.7 | 2916.4 | 2879.2 | 2899.9 | 2917.5 | 2922.7 |
| 37.5° | 3167.0 | 3170.1 | 3126.6 | 3085.2 | 3062.4 | 3105.9 | 3038.6 | 3041.7 | 3114.2 | 3147.3 | 3146.3 |
| 40° | 3427.9 | 3428.9 | 3399.9 | 3363.7 | 3324.4 | 3334.7 | 3307.8 | 3316.1 | 3363.7 | 3393.7 | 3402.0 |
| 42.5° | 3738.5 | 3735.4 | 3689.8 | 3638.0 | 3626.7 | 3637.0 | 3591.5 | 3585.2 | 3640.1 | 3694.0 | 3695.0 |
| 45° | 4141.2 | 4134.0 | 4074.9 | 4018.0 | 3963.1 | 3940.4 | 3929.0 | 3959.0 | 4034.6 | 4084.3 | 4085.3 |
| 47.5° | 4575.0 | 4555.3 | 4524.3 | 4478.7 | 4431.1 | 4408.3 | 4389.7 | 4404.2 | 4459.0 | 4478.7 | 4480.8 |
| 50° | 5021.2 | 5025.4 | 5031.6 | 5014.0 | 4996.4 | 4989.1 | 4940.5 | 4912.5 | 4929.1 | 4892.8 | 4887.7 |
| 52.5° | 5550.3 | 5558.5 | 5618.6 | 5669.3 | 5699.3 | 5714.9 | 5622.7 | 5526.4 | 5472.6 | 5402.2 | 5381.5 |
| 55° | 6174.5 | 6188.0 | 6276.0 | 6416.8 | 6561.7 | 6638.4 | 6471.7 | 6291.5 | 6124.8 | 5993.4 | 5950.9 |
| 57.5° | 6870.3 | 6894.1 | 7015.2 | 7285.4 | 7582.5 | 7763.7 | 7482.1 | 7155.0 | 6833.0 | 6643.5 | 6610.4 |
| 60° | 7686.1 | 7708.9 | 7876.6 | 8263.8 | 8745.2 | 9017.5 | 8590.9 | 8055.7 | 7655.0 | 7473.8 | 7412.8 |
| 62.5° | 8657.2 | 8659.3 | 8865.3 | 9317.7 | 9953.4 | 10332.3 | 9754.6 | 9039.2 | 8626.1 | 8407.7 | 8348.7 |
| 65° | 9701.8 | 9707.0 | 9920.3 | 10408.9 | 11066.3 | 11478.4 | 10826.1 | 10080.7 | 9575.5 | 9253.5 | 9208.0 |
| 67.5° | 10440.0 | 10461.7 | 10686.4 | 11274.4 | 11889.4 | 12261.1 | 11586.1 | 10743.3 | 10159.4 | 9775.3 | 9737.0 |
| 70° | 10322.0 | 10406.8 | 10670.9 | 11357.3 | 12212.4 | 12742.5 | 11709.3 | 10664.6 | 9894.4 | 9440.9 | 9408.8 |
| 72.5° | 9001.9 | 9164.5 | 9516.5 | 10417.2 | 11784.8 | 12514.7 | 11037.3 | 9551.7 | 8680.0 | 8293.8 | 8235.8 |
| 75° | 6130.0 | 6394.0 | 6925.1 | 8224.4 | 10068.3 | 10835.5 | 9291.8 | 7615.7 | 6795.7 | 6261.5 | 6222.2 |
| 77.5° | 2733.2 | 2793.2 | 3466.2 | 4962.2 | 6947.9 | 7781.3 | 6751.2 | 4981.9 | 3739.5 | 2982.7 | 2823.3 |
| 80° | 762.0 | 771.3 | 1029.1 | 1848.0 | 3477.6 | 4571.9 | 3733.3 | 1941.2 | 1091.2 | 769.2 | 724.7 |
| 82.5° | 242.3 | 263.0 | 320.9 | 479.3 | 1168.9 | 2086.1 | 1199.9 | 517.7 | 368.6 | 294.0 | 265.0 |
| 85° | 118.0 | 117.0 | 162.5 | 194.6 | 298.2 | 461.7 | 317.8 | 240.2 | 210.2 | 139.8 | 126.3 |
| 87.5° | 49.7 | 50.7 | 75.6 | 68.3 | 87.0 | 74.5 | 102.5 | 107.7 | 112.8 | 62.1 | 53.8 |
| 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)