

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: P316282

Luminaire Tested: **GLEON-SA8B-827-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316282
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-SA8B-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 35463 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

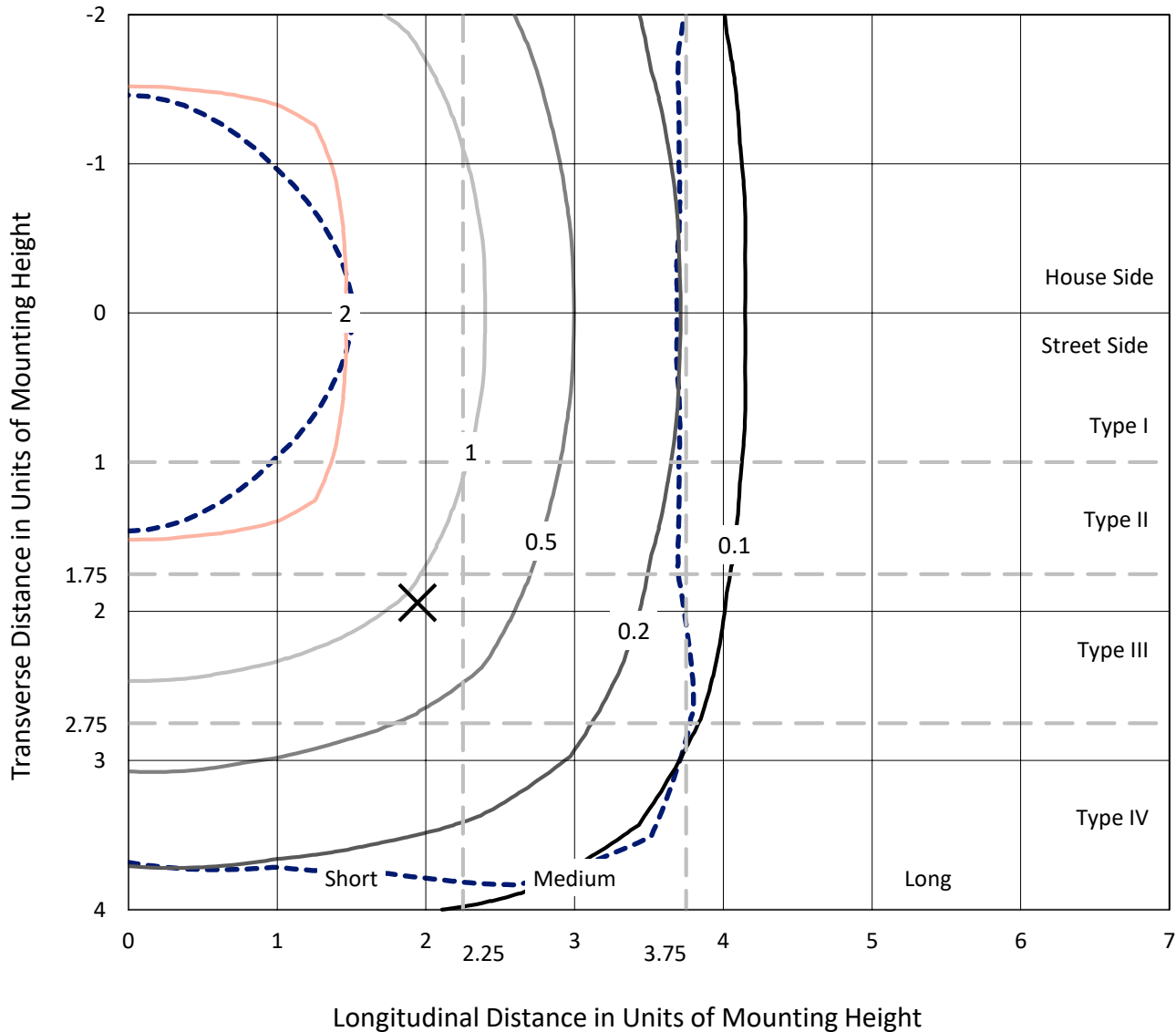
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

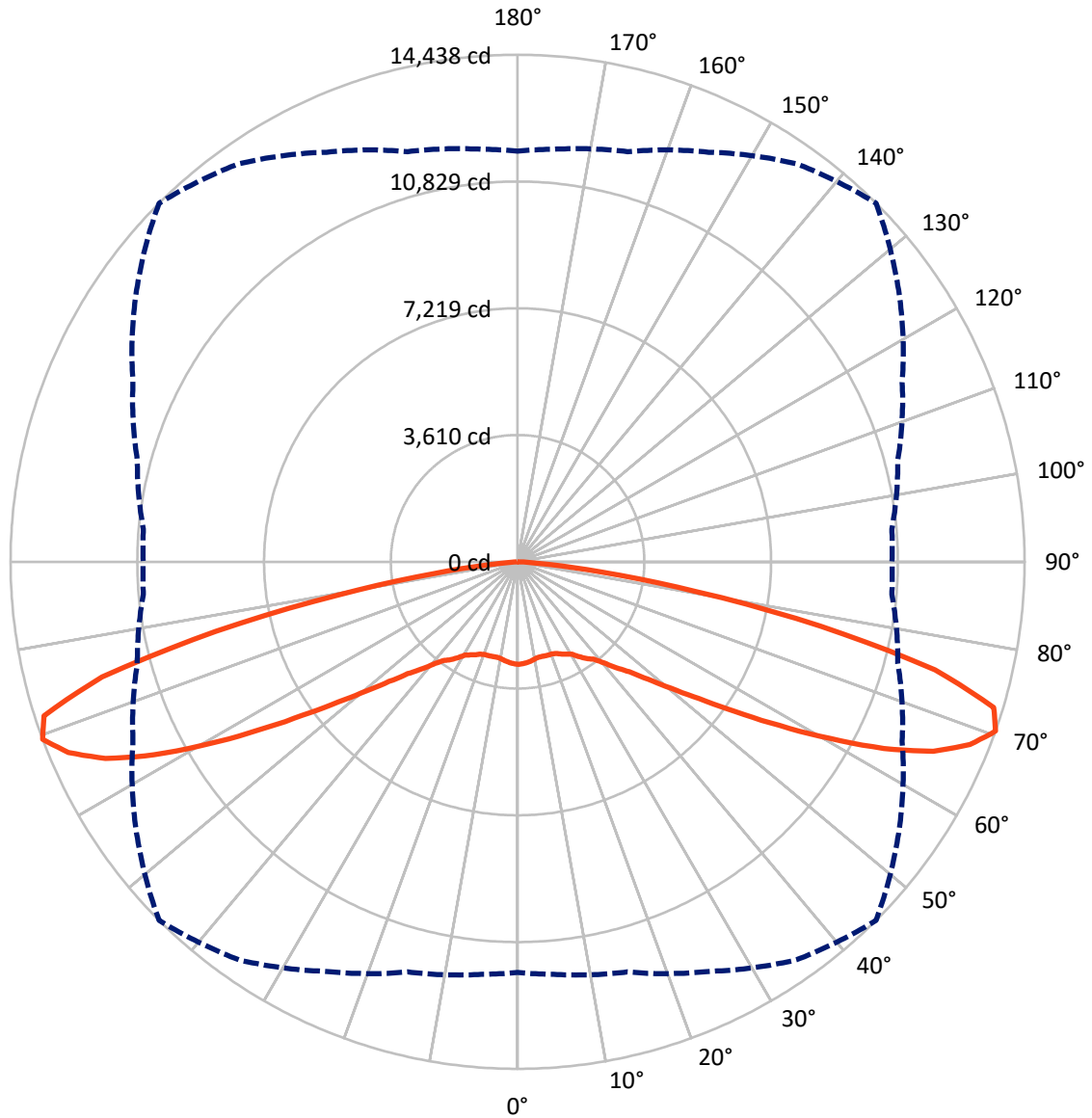
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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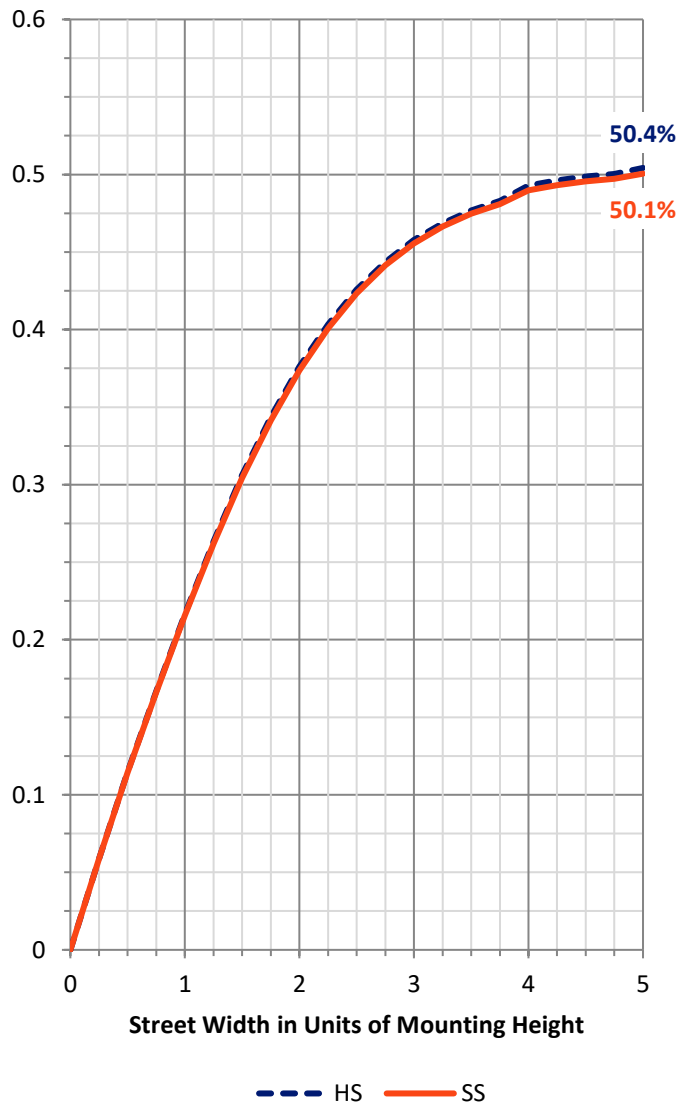
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 17731.5 | 0.0 | 17731.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 17731.5 | 0.0 | 17731.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 35463.0 | 0.0 | 35463.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 272.4 | 0.8 |
| 10°-20° | 795.7 | 2.2 |
| 20°-30° | 1356.6 | 3.8 |
| 30°-40° | 2119.8 | 6.0 |
| 40°-50° | 3592.6 | 10.1 |
| 50°-60° | 6551.3 | 18.5 |
| 60°-70° | 11278.5 | 31.8 |
| 70°-80° | 8840.5 | 24.9 |
| 80°-90° | 655.5 | 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° | 35463.0 | 100.0 |
| 0°-180° | 35463.0 | 100.0 |

Coefficient of Utilization

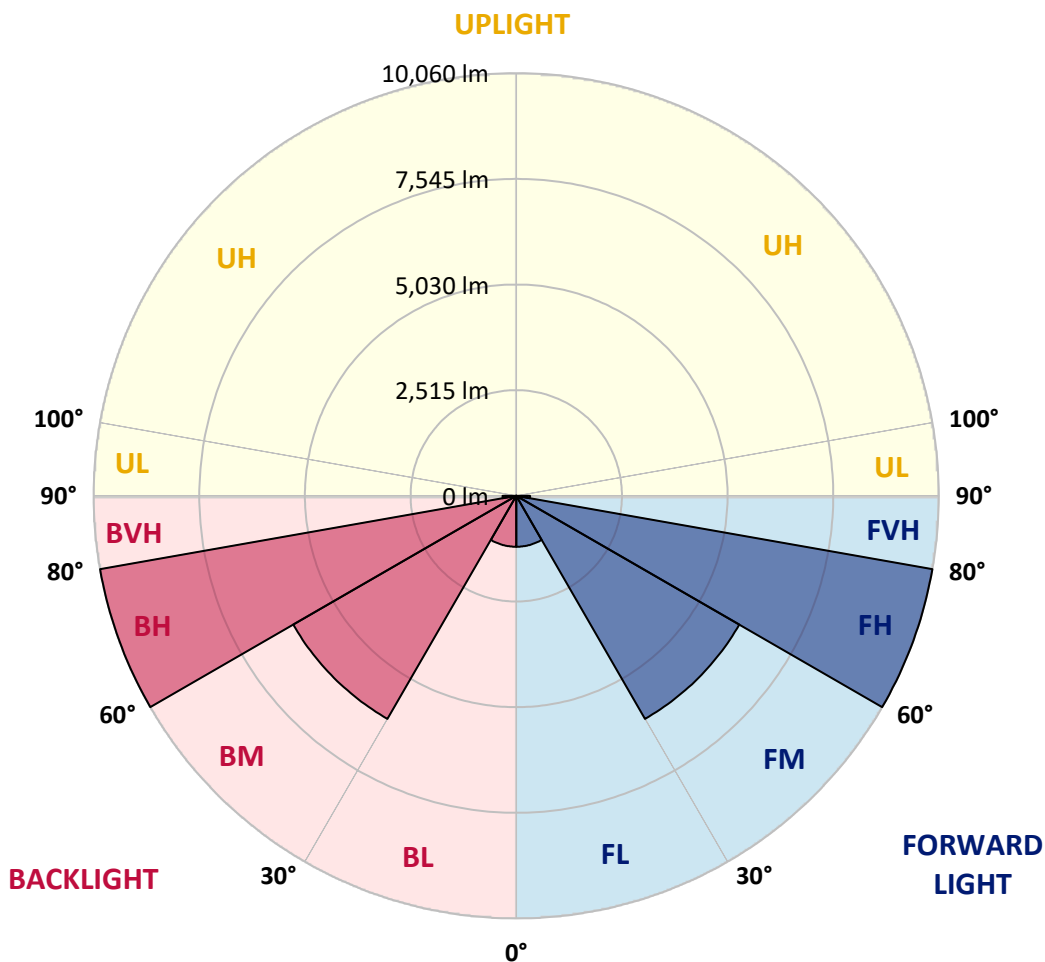


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1212.4 | 3.4 | | | |
| FM (30°-60°) | 6131.8 | 17.3 | | | |
| FH (60°-80°) | 10059.5 | 28.4 | | | G4/12000 |
| FVH (80°-90°) | 327.8 | 0.9 | | | G3/500 |
| BL (0°-30°) | 1212.4 | 3.4 | B3/2500 | | |
| BM (30°-60°) | 6131.8 | 17.3 | B4/8500 | | |
| BH (60°-80°) | 10059.5 | 28.4 | B5 | | G4/12000 |
| BVH (80°-90°) | 327.8 | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2918.6 | 2918.6 | 2918.6 | 2918.6 | 2918.6 | 2918.6 | 2918.6 | 2918.6 | 2918.6 | 2918.6 | 2918.6 |
| 2.5° | 2905.7 | 2909.2 | 2905.7 | 2908.1 | 2902.2 | 2904.5 | 2904.5 | 2904.5 | 2903.4 | 2904.5 | 2902.2 |
| 5° | 2879.9 | 2882.2 | 2877.6 | 2879.9 | 2876.4 | 2879.9 | 2881.1 | 2879.9 | 2877.6 | 2878.7 | 2874.0 |
| 7.5° | 2841.2 | 2843.5 | 2840.0 | 2843.5 | 2838.8 | 2844.7 | 2843.5 | 2840.0 | 2836.5 | 2836.5 | 2831.8 |
| 10° | 2820.1 | 2821.2 | 2811.9 | 2808.3 | 2797.8 | 2800.1 | 2803.6 | 2807.2 | 2810.7 | 2817.7 | 2816.6 |
| 12.5° | 2821.2 | 2821.2 | 2807.2 | 2791.9 | 2776.7 | 2780.2 | 2786.1 | 2799.0 | 2813.0 | 2825.9 | 2827.1 |
| 15° | 2833.0 | 2831.8 | 2810.7 | 2786.1 | 2775.5 | 2786.1 | 2789.6 | 2797.8 | 2820.1 | 2842.4 | 2843.5 |
| 17.5° | 2841.2 | 2841.2 | 2808.3 | 2780.2 | 2779.0 | 2795.4 | 2794.3 | 2797.8 | 2822.4 | 2855.3 | 2856.4 |
| 20° | 2856.4 | 2856.4 | 2814.2 | 2783.7 | 2783.7 | 2801.3 | 2802.5 | 2808.3 | 2833.0 | 2869.3 | 2875.2 |
| 22.5° | 2890.5 | 2891.6 | 2847.1 | 2822.4 | 2824.8 | 2835.3 | 2838.8 | 2848.2 | 2870.5 | 2910.4 | 2917.4 |
| 25° | 2938.6 | 2940.9 | 2895.1 | 2881.1 | 2889.3 | 2909.2 | 2906.9 | 2913.9 | 2938.6 | 2977.3 | 2984.3 |
| 27.5° | 3005.4 | 2999.6 | 2957.3 | 2951.5 | 2959.7 | 2973.7 | 2972.6 | 2973.7 | 2993.7 | 3028.9 | 3037.1 |
| 30° | 3092.2 | 3089.9 | 3059.4 | 3062.9 | 3059.4 | 3054.7 | 3055.9 | 3065.2 | 3075.8 | 3104.0 | 3112.2 |
| 32.5° | 3176.7 | 3179.0 | 3160.3 | 3177.9 | 3203.7 | 3221.3 | 3194.3 | 3168.5 | 3156.7 | 3172.0 | 3179.0 |
| 35° | 3329.2 | 3335.1 | 3305.7 | 3294.0 | 3329.2 | 3380.8 | 3304.6 | 3262.3 | 3285.8 | 3305.7 | 3311.6 |
| 37.5° | 3588.4 | 3592.0 | 3542.7 | 3495.8 | 3470.0 | 3519.2 | 3443.0 | 3446.5 | 3528.6 | 3566.1 | 3565.0 |
| 40° | 3884.1 | 3885.2 | 3852.4 | 3811.3 | 3766.7 | 3778.5 | 3748.0 | 3757.4 | 3811.3 | 3845.3 | 3854.7 |
| 42.5° | 4236.0 | 4232.5 | 4180.8 | 4122.2 | 4109.3 | 4121.0 | 4069.4 | 4062.4 | 4124.5 | 4185.5 | 4186.7 |
| 45° | 4692.3 | 4684.1 | 4617.2 | 4552.7 | 4490.5 | 4464.7 | 4451.8 | 4485.8 | 4571.5 | 4627.8 | 4629.0 |
| 47.5° | 5183.8 | 5161.5 | 5126.3 | 5074.7 | 5020.8 | 4995.0 | 4973.8 | 4990.3 | 5052.4 | 5074.7 | 5077.1 |
| 50° | 5689.4 | 5694.1 | 5701.1 | 5681.2 | 5661.3 | 5653.0 | 5597.9 | 5566.2 | 5585.0 | 5544.0 | 5538.1 |
| 52.5° | 6288.9 | 6298.2 | 6366.3 | 6423.8 | 6457.8 | 6475.4 | 6371.0 | 6261.9 | 6200.9 | 6121.1 | 6097.6 |
| 55° | 6996.2 | 7011.5 | 7111.2 | 7270.7 | 7434.9 | 7521.8 | 7332.9 | 7128.8 | 6939.9 | 6790.9 | 6742.8 |
| 57.5° | 7784.5 | 7811.5 | 7948.8 | 8254.9 | 8591.6 | 8796.9 | 8477.8 | 8107.1 | 7742.3 | 7527.6 | 7490.1 |
| 60° | 8708.9 | 8734.7 | 8924.8 | 9363.5 | 9909.0 | 10217.5 | 9734.2 | 9127.7 | 8673.7 | 8468.4 | 8399.2 |
| 62.5° | 9809.3 | 9811.6 | 10045.0 | 10557.7 | 11277.9 | 11707.3 | 11052.7 | 10242.1 | 9774.1 | 9526.5 | 9459.7 |
| 65° | 10992.9 | 10998.7 | 11240.4 | 11794.1 | 12539.0 | 13005.9 | 12266.8 | 11422.2 | 10849.8 | 10484.9 | 10433.3 |
| 67.5° | 11829.3 | 11853.9 | 12108.5 | 12774.8 | 13471.6 | 13892.7 | 13127.9 | 12173.0 | 11511.4 | 11076.2 | 11032.8 |
| 70° | 11695.6 | 11791.7 | 12090.9 | 12868.6 | 13837.6 | 14438.2 | 13267.5 | 12083.8 | 11211.1 | 10697.3 | 10660.9 |
| 72.5° | 10199.9 | 10384.1 | 10782.9 | 11803.5 | 13353.1 | 14180.1 | 12506.1 | 10822.8 | 9835.1 | 9397.5 | 9331.8 |
| 75° | 6945.8 | 7244.9 | 7846.7 | 9318.9 | 11408.2 | 12277.4 | 10528.3 | 8629.1 | 7700.1 | 7094.8 | 7050.2 |
| 77.5° | 3096.9 | 3165.0 | 3927.5 | 5622.5 | 7872.5 | 8816.8 | 7649.6 | 5644.8 | 4237.1 | 3379.6 | 3199.0 |
| 80° | 863.4 | 873.9 | 1166.0 | 2093.9 | 3940.4 | 5180.3 | 4230.1 | 2199.5 | 1236.4 | 871.6 | 821.2 |
| 82.5° | 274.5 | 298.0 | 363.7 | 543.1 | 1324.4 | 2363.7 | 1359.6 | 586.5 | 417.6 | 333.2 | 300.3 |
| 85° | 133.7 | 132.6 | 184.2 | 220.5 | 337.8 | 523.2 | 360.1 | 272.2 | 238.1 | 158.4 | 143.1 |
| 87.5° | 56.3 | 57.5 | 85.6 | 77.4 | 98.5 | 84.5 | 116.1 | 122.0 | 127.9 | 70.4 | 61.0 |
| 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)