

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: P383496

Luminaire Tested: **GLEON-SA8A-735-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383496
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-SA8A-735-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36646.2 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

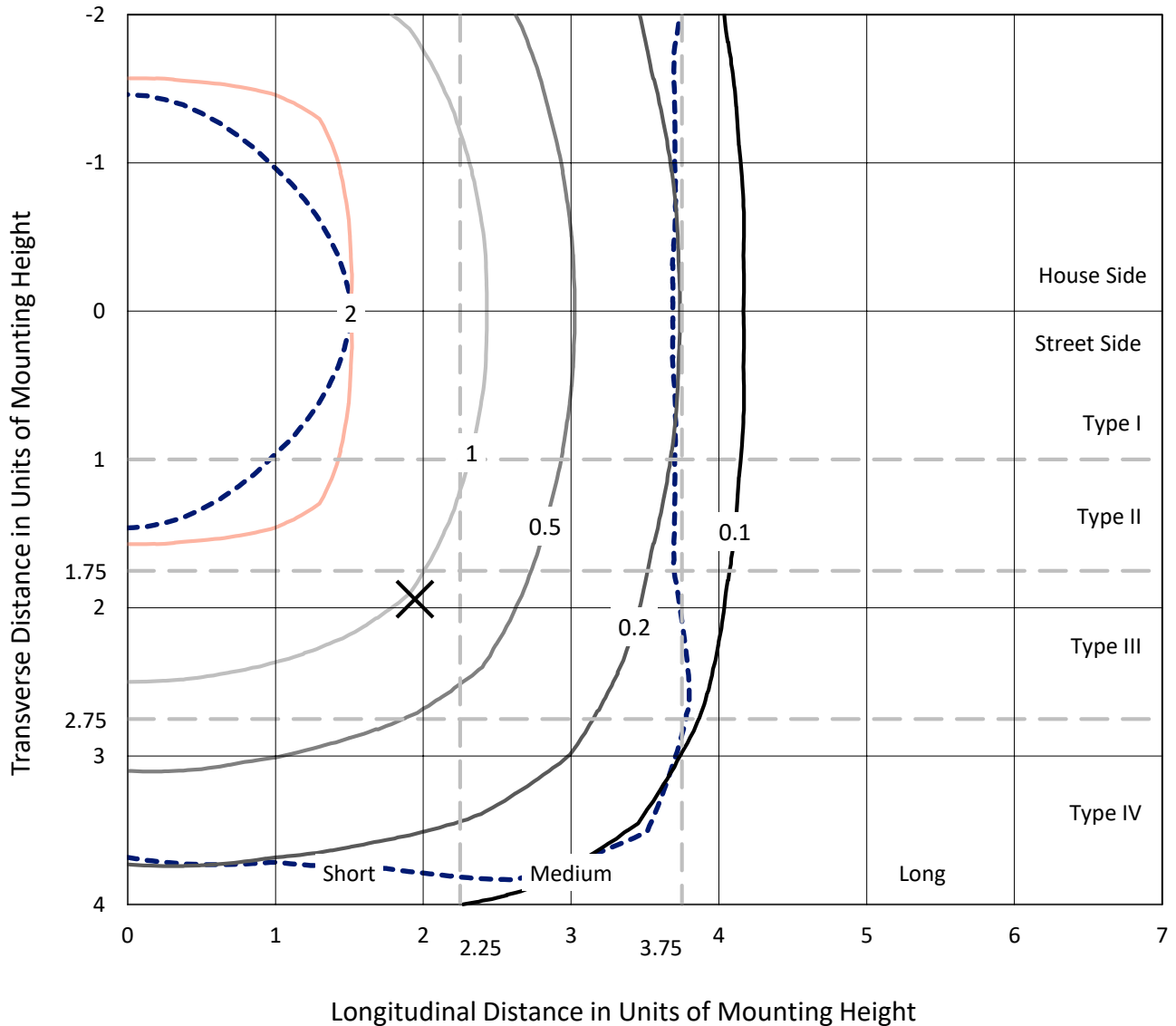
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

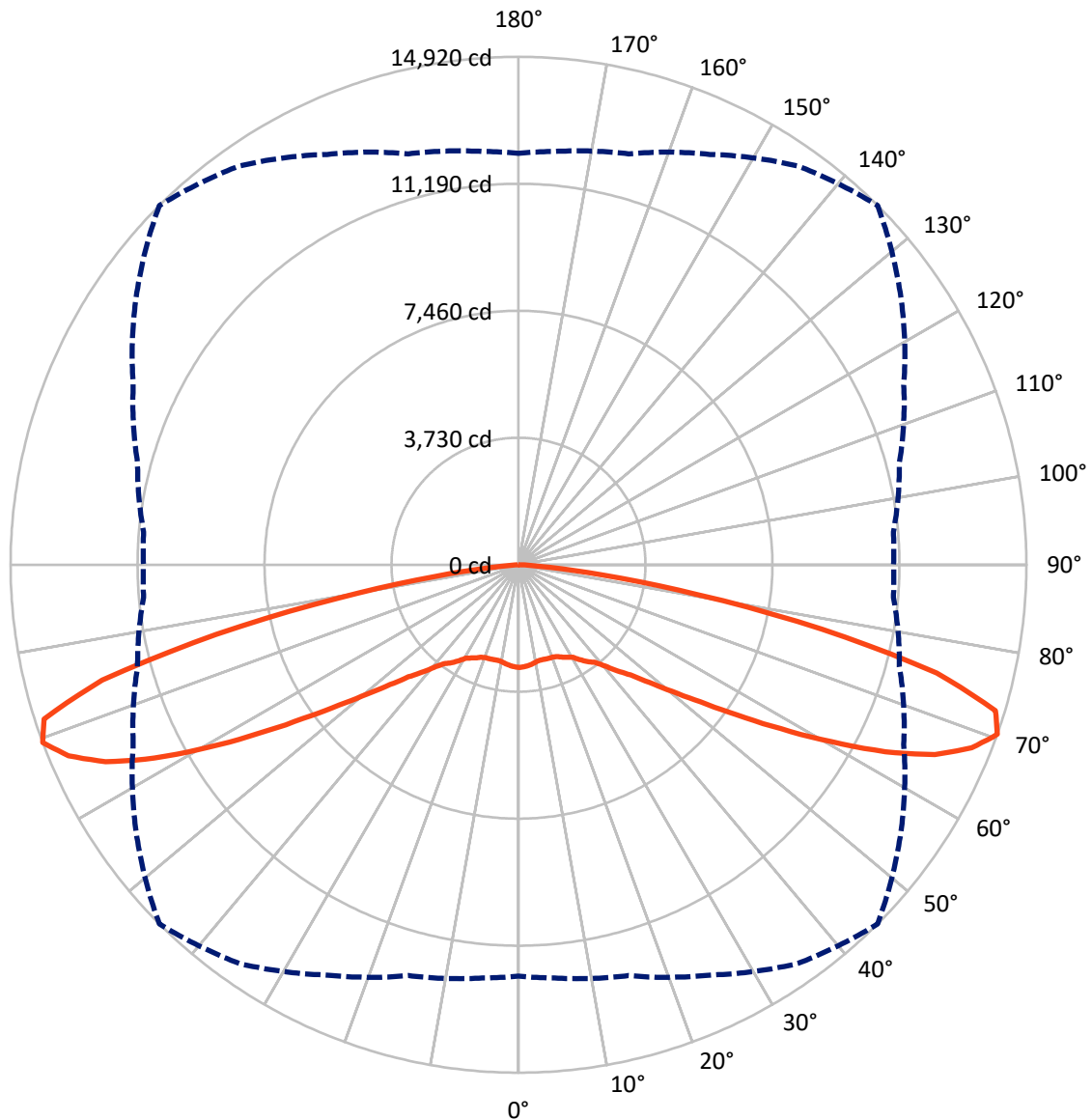
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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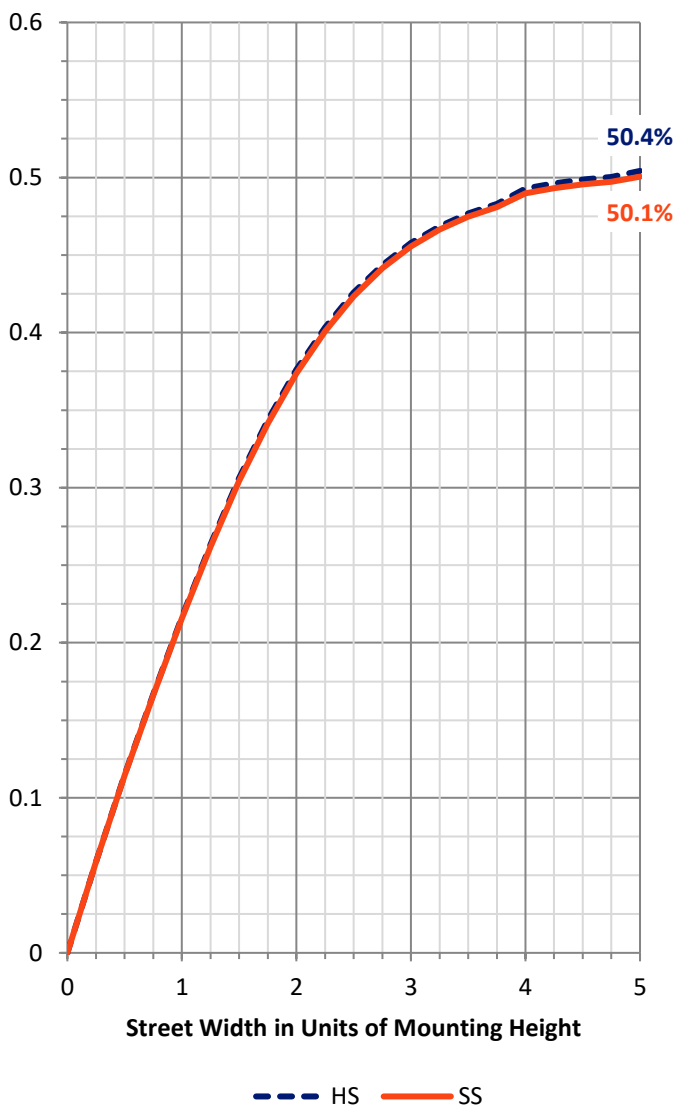
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 18323.1 | 0.0 | 18323.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 18323.1 | 0.0 | 18323.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 36646.2 | 0.0 | 36646.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 281.5 | 0.8 |
| 10°-20° | 822.3 | 2.2 |
| 20°-30° | 1401.9 | 3.8 |
| 30°-40° | 2190.5 | 6.0 |
| 40°-50° | 3712.4 | 10.1 |
| 50°-60° | 6769.9 | 18.5 |
| 60°-70° | 11654.8 | 31.8 |
| 70°-80° | 9135.5 | 24.9 |
| 80°-90° | 677.4 | 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° | 36646.2 | 100.0 |
| 0°-180° | 36646.2 | 100.0 |

Coefficient of Utilization

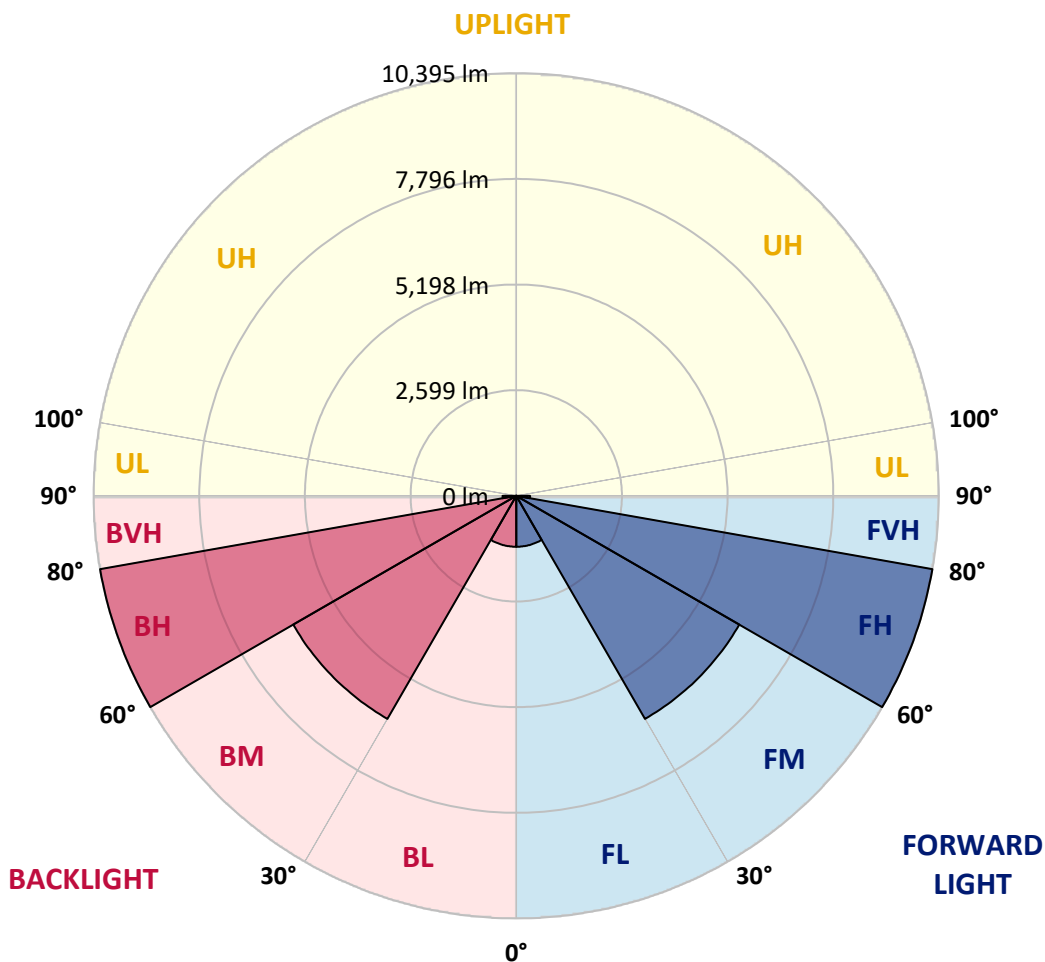


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1252.8 | 3.4 | | | |
| FM (30°-60°) | 6336.4 | 17.3 | | | |
| FH (60°-80°) | 10395.2 | 28.4 | | | G4/12000 |
| FVH (80°-90°) | 338.7 | 0.9 | | | G3/500 |
| BL (0°-30°) | 1252.8 | 3.4 | B3/2500 | | |
| BM (30°-60°) | 6336.4 | 17.3 | B4/8500 | | |
| BH (60°-80°) | 10395.2 | 28.4 | B5 | | G4/12000 |
| BVH (80°-90°) | 338.7 | 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° | 3016.0 | 3016.0 | 3016.0 | 3016.0 | 3016.0 | 3016.0 | 3016.0 | 3016.0 | 3016.0 | 3016.0 | 3016.0 |
| 2.5° | 3002.7 | 3006.3 | 3002.7 | 3005.1 | 2999.0 | 3001.4 | 3001.4 | 3001.4 | 3000.2 | 3001.4 | 2999.0 |
| 5° | 2976.0 | 2978.4 | 2973.6 | 2976.0 | 2972.4 | 2976.0 | 2977.2 | 2976.0 | 2973.6 | 2974.8 | 2970.0 |
| 7.5° | 2936.0 | 2938.4 | 2934.7 | 2938.4 | 2933.5 | 2939.6 | 2938.4 | 2934.7 | 2931.1 | 2931.1 | 2926.3 |
| 10° | 2914.2 | 2915.4 | 2905.7 | 2902.1 | 2891.2 | 2893.6 | 2897.2 | 2900.8 | 2904.5 | 2911.7 | 2910.5 |
| 12.5° | 2915.4 | 2915.4 | 2900.8 | 2885.1 | 2869.3 | 2873.0 | 2879.0 | 2892.4 | 2906.9 | 2920.2 | 2921.4 |
| 15° | 2927.5 | 2926.3 | 2904.5 | 2879.0 | 2868.0 | 2879.0 | 2882.7 | 2891.2 | 2914.2 | 2937.2 | 2938.4 |
| 17.5° | 2936.0 | 2936.0 | 2902.1 | 2873.0 | 2871.8 | 2888.7 | 2887.5 | 2891.2 | 2916.6 | 2950.5 | 2951.7 |
| 20° | 2951.7 | 2951.7 | 2908.1 | 2876.6 | 2876.6 | 2894.8 | 2896.0 | 2902.1 | 2927.5 | 2965.1 | 2971.2 |
| 22.5° | 2986.9 | 2988.1 | 2942.0 | 2916.6 | 2919.0 | 2929.9 | 2933.5 | 2943.2 | 2966.3 | 3007.5 | 3014.8 |
| 25° | 3036.6 | 3039.0 | 2991.8 | 2977.2 | 2985.7 | 3006.3 | 3003.9 | 3011.1 | 3036.6 | 3076.6 | 3083.9 |
| 27.5° | 3105.7 | 3099.6 | 3055.9 | 3049.9 | 3058.5 | 3073.0 | 3071.8 | 3073.0 | 3093.6 | 3129.9 | 3138.4 |
| 30° | 3195.4 | 3193.0 | 3161.5 | 3165.1 | 3161.5 | 3156.6 | 3157.9 | 3167.5 | 3178.4 | 3207.5 | 3216.0 |
| 32.5° | 3282.7 | 3285.1 | 3265.7 | 3283.9 | 3310.5 | 3328.7 | 3300.8 | 3274.2 | 3262.1 | 3277.8 | 3285.1 |
| 35° | 3440.3 | 3446.4 | 3416.0 | 3403.9 | 3440.3 | 3493.6 | 3414.8 | 3371.2 | 3395.4 | 3416.0 | 3422.0 |
| 37.5° | 3708.1 | 3711.8 | 3660.9 | 3612.4 | 3585.7 | 3636.7 | 3557.9 | 3561.5 | 3646.4 | 3685.1 | 3683.9 |
| 40° | 4013.7 | 4014.9 | 3980.9 | 3938.5 | 3892.4 | 3904.5 | 3873.0 | 3882.7 | 3938.5 | 3973.6 | 3983.3 |
| 42.5° | 4377.3 | 4373.6 | 4320.3 | 4259.7 | 4246.4 | 4258.5 | 4205.2 | 4197.9 | 4262.1 | 4325.2 | 4326.4 |
| 45° | 4848.9 | 4840.3 | 4771.3 | 4704.6 | 4640.3 | 4613.7 | 4600.4 | 4635.5 | 4724.0 | 4782.2 | 4783.4 |
| 47.5° | 5356.8 | 5333.8 | 5297.3 | 5244.1 | 5188.3 | 5161.6 | 5139.8 | 5156.8 | 5221.0 | 5244.1 | 5246.5 |
| 50° | 5879.2 | 5884.1 | 5891.4 | 5870.7 | 5850.1 | 5841.6 | 5784.6 | 5751.9 | 5771.3 | 5728.9 | 5722.9 |
| 52.5° | 6498.7 | 6508.4 | 6578.7 | 6638.1 | 6673.2 | 6691.4 | 6583.5 | 6470.8 | 6407.7 | 6325.3 | 6301.1 |
| 55° | 7229.6 | 7245.4 | 7348.4 | 7513.3 | 7683.0 | 7772.7 | 7577.6 | 7366.6 | 7171.4 | 7017.5 | 6967.8 |
| 57.5° | 8044.2 | 8072.1 | 8213.9 | 8530.4 | 8878.2 | 9090.4 | 8760.6 | 8377.6 | 8000.6 | 7778.8 | 7739.9 |
| 60° | 8999.5 | 9026.1 | 9222.5 | 9675.9 | 10239.6 | 10558.3 | 10058.9 | 9432.2 | 8963.1 | 8751.0 | 8679.4 |
| 62.5° | 10136.5 | 10139.0 | 10380.1 | 10909.9 | 11654.2 | 12097.9 | 11421.4 | 10583.8 | 10100.1 | 9844.4 | 9775.3 |
| 65° | 11359.7 | 11365.7 | 11615.4 | 12187.6 | 12957.4 | 13439.8 | 12676.1 | 11803.3 | 11211.7 | 10834.7 | 10781.5 |
| 67.5° | 12224.0 | 12249.4 | 12512.5 | 13201.0 | 13921.0 | 14356.3 | 13565.8 | 12579.2 | 11895.4 | 11445.7 | 11400.8 |
| 70° | 12085.7 | 12185.1 | 12494.3 | 13297.9 | 14299.3 | 14919.9 | 13710.1 | 12487.0 | 11585.1 | 11054.1 | 11016.6 |
| 72.5° | 10540.2 | 10730.5 | 11142.6 | 12197.3 | 13798.6 | 14653.2 | 12923.4 | 11183.9 | 10163.2 | 9711.0 | 9643.1 |
| 75° | 7177.5 | 7486.7 | 8108.5 | 9629.8 | 11788.7 | 12687.0 | 10879.6 | 8917.1 | 7957.0 | 7331.5 | 7285.4 |
| 77.5° | 3200.2 | 3270.6 | 4058.5 | 5810.2 | 8135.1 | 9111.0 | 7904.8 | 5833.2 | 4378.6 | 3492.4 | 3305.7 |
| 80° | 892.1 | 903.1 | 1205.0 | 2163.8 | 4071.8 | 5353.1 | 4371.2 | 2272.9 | 1277.7 | 900.7 | 848.5 |
| 82.5° | 283.7 | 307.9 | 375.8 | 561.3 | 1368.6 | 2442.6 | 1405.0 | 606.1 | 431.6 | 344.3 | 310.3 |
| 85° | 138.1 | 136.9 | 190.3 | 227.9 | 349.1 | 540.7 | 372.2 | 281.2 | 246.1 | 163.7 | 147.9 |
| 87.5° | 58.2 | 59.4 | 88.5 | 80.0 | 101.8 | 87.3 | 120.0 | 126.0 | 132.1 | 72.8 | 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)