

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: P383216

Luminaire Tested: **GLEON-SA5C-735-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383216
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-SA5C-735-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34687.1 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

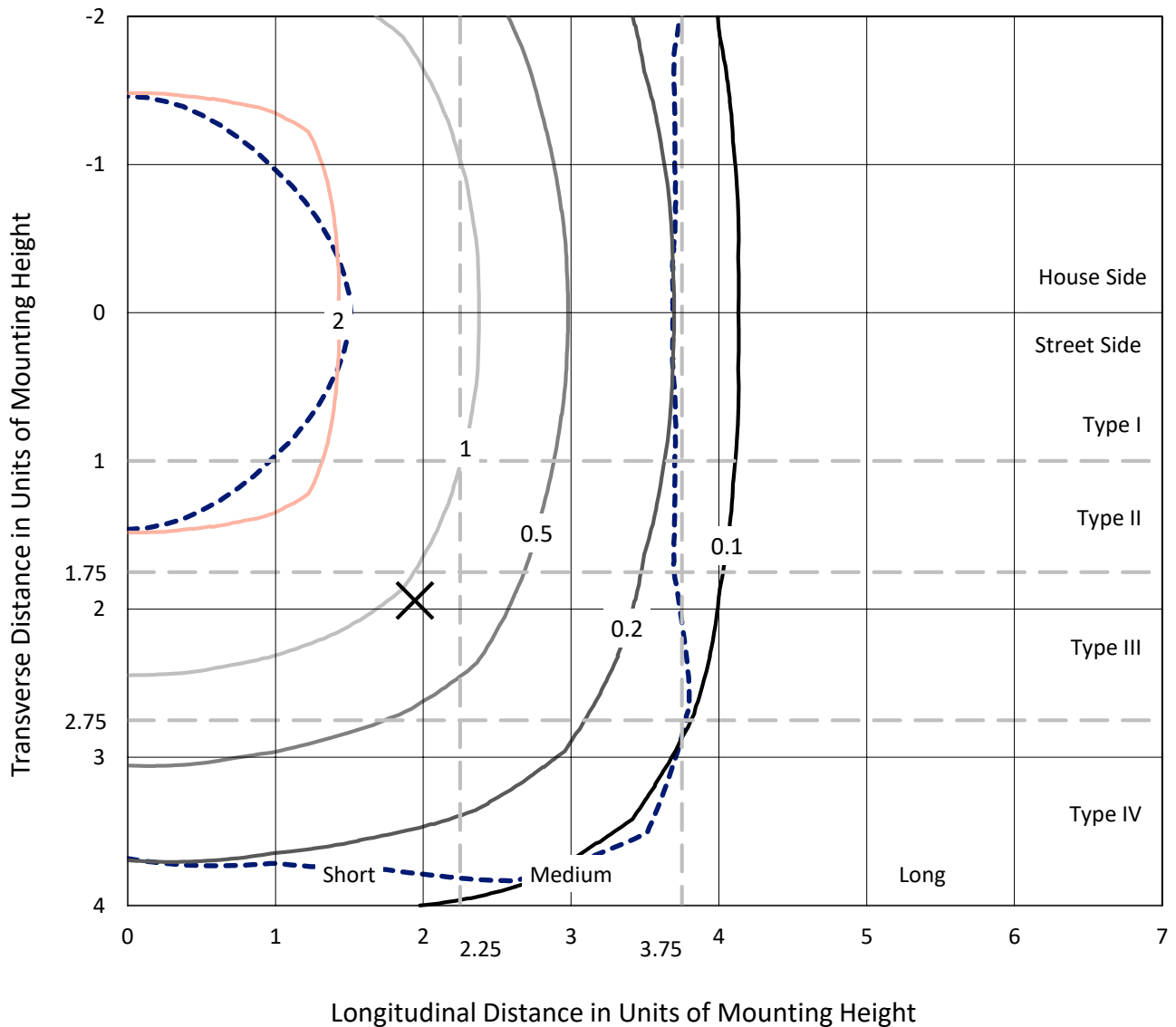
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

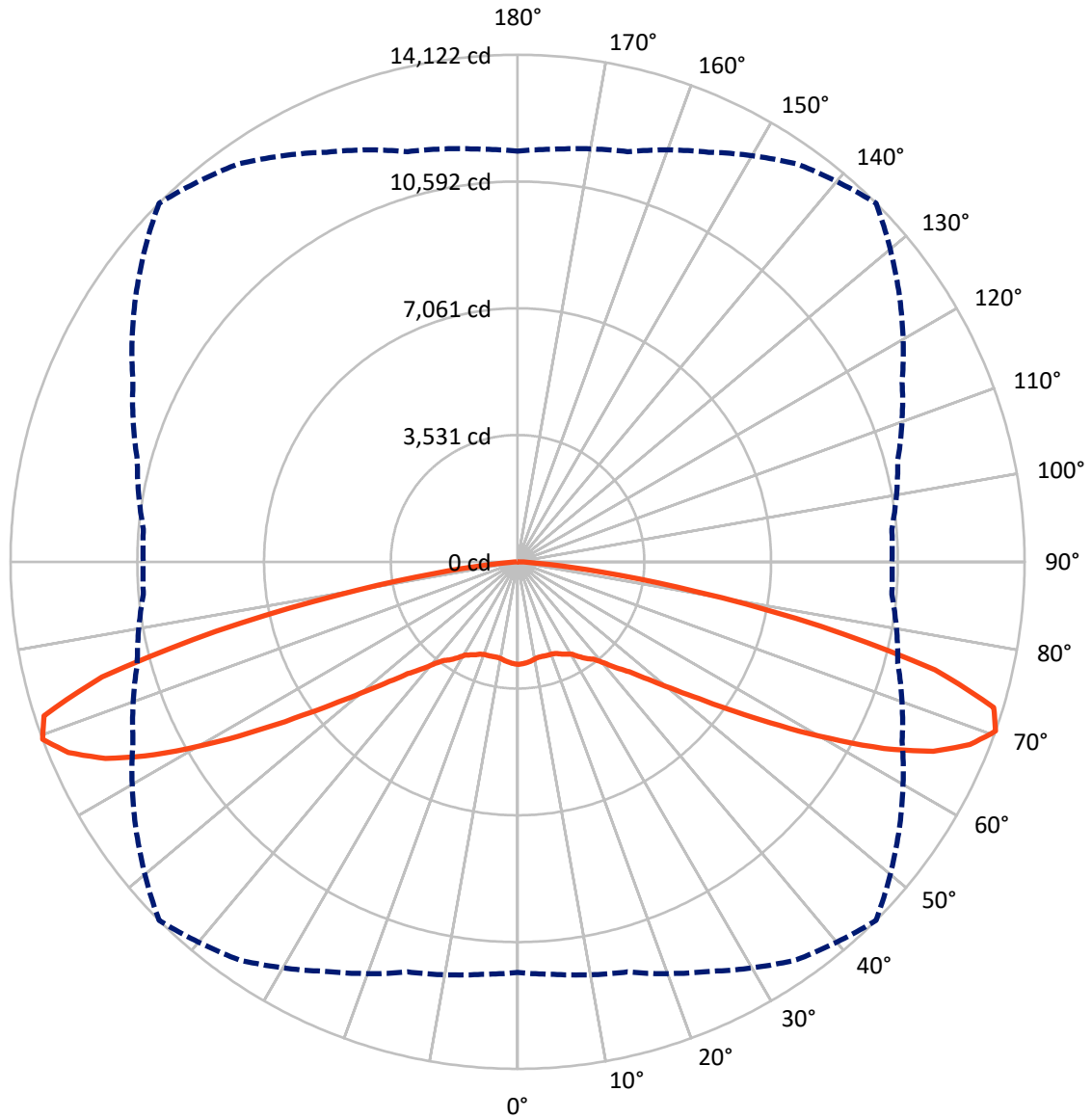
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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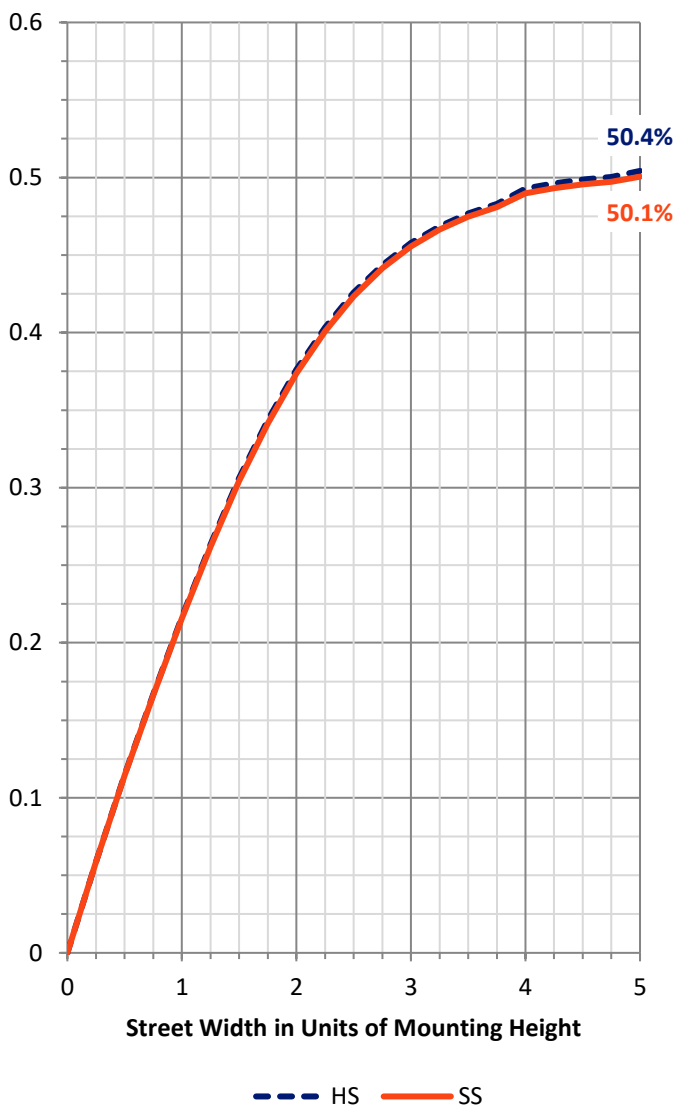
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 17343.6 | 0.0 | 17343.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 17343.6 | 0.0 | 17343.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 34687.1 | 0.0 | 34687.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 266.4 | 0.8 |
| 10°-20° | 778.3 | 2.2 |
| 20°-30° | 1327.0 | 3.8 |
| 30°-40° | 2073.4 | 6.0 |
| 40°-50° | 3514.0 | 10.1 |
| 50°-60° | 6408.0 | 18.5 |
| 60°-70° | 11031.8 | 31.8 |
| 70°-80° | 8647.1 | 24.9 |
| 80°-90° | 641.2 | 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° | 34687.1 | 100.0 |
| 0°-180° | 34687.1 | 100.0 |

Coefficient of Utilization



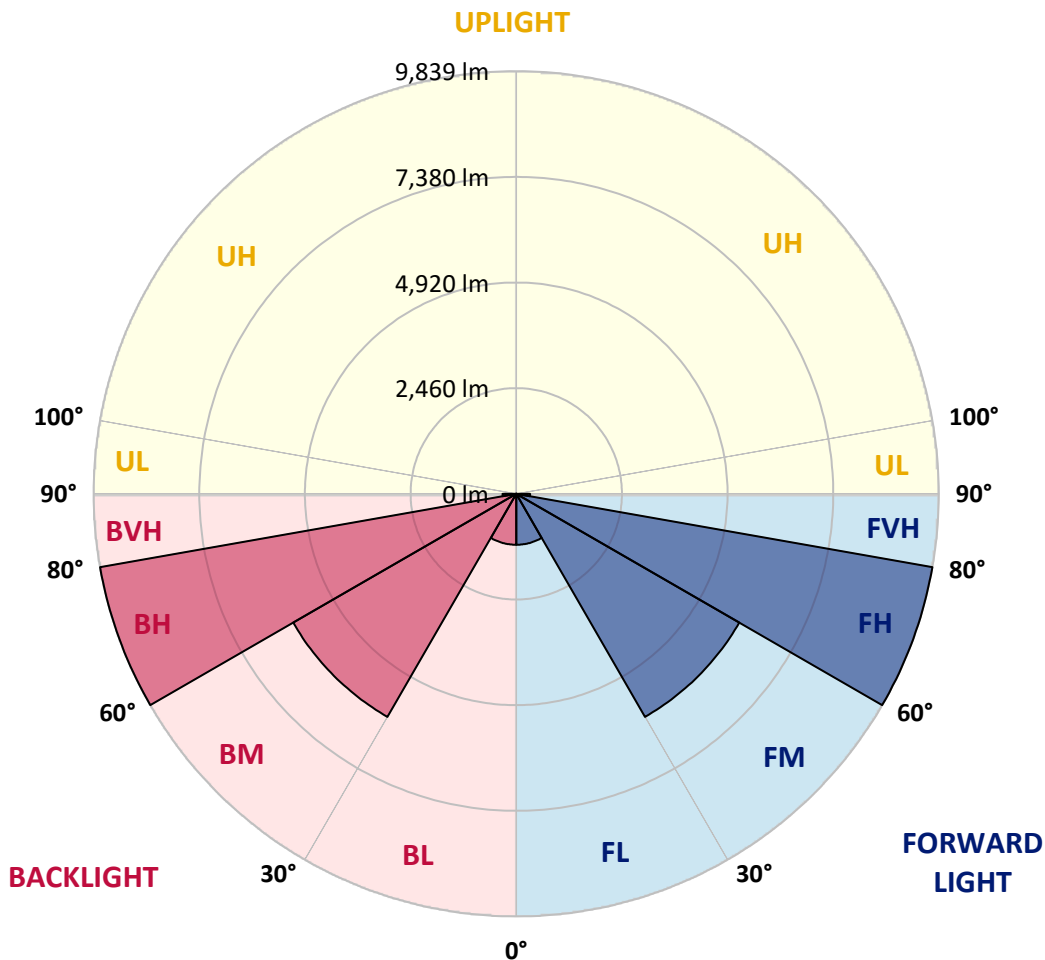
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1185.8 | 3.4 | | | |
| FM (30°-60°) | 5997.7 | 17.3 | | | |
| FH (60°-80°) | 9839.4 | 28.4 | | | G4/12000 |
| FVH (80°-90°) | 320.6 | 0.9 | | | G3/500 |
| BL (0°-30°) | 1185.8 | 3.4 | B3/2500 | | |
| BM (30°-60°) | 5997.7 | 17.3 | B4/8500 | | |
| BH (60°-80°) | 9839.4 | 28.4 | B5 | | G4/12000 |
| BVH (80°-90°) | 320.6 | 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° | 2854.7 | 2854.7 | 2854.7 | 2854.7 | 2854.7 | 2854.7 | 2854.7 | 2854.7 | 2854.7 | 2854.7 | 2854.7 |
| 2.5° | 2842.2 | 2845.6 | 2842.2 | 2844.4 | 2838.7 | 2840.9 | 2840.9 | 2840.9 | 2839.8 | 2840.9 | 2838.7 |
| 5° | 2816.9 | 2819.1 | 2814.6 | 2816.9 | 2813.5 | 2816.9 | 2818.0 | 2816.9 | 2814.6 | 2815.7 | 2811.1 |
| 7.5° | 2779.0 | 2781.3 | 2777.9 | 2781.3 | 2776.8 | 2782.4 | 2781.3 | 2777.9 | 2774.4 | 2774.4 | 2769.9 |
| 10° | 2758.4 | 2759.5 | 2750.3 | 2746.9 | 2736.6 | 2738.8 | 2742.3 | 2745.7 | 2749.2 | 2756.1 | 2755.0 |
| 12.5° | 2759.5 | 2759.5 | 2745.7 | 2730.8 | 2715.9 | 2719.4 | 2725.1 | 2737.7 | 2751.5 | 2764.1 | 2765.3 |
| 15° | 2771.0 | 2769.9 | 2749.2 | 2725.1 | 2714.8 | 2725.1 | 2728.5 | 2736.6 | 2758.4 | 2780.2 | 2781.3 |
| 17.5° | 2779.0 | 2779.0 | 2746.9 | 2719.4 | 2718.3 | 2734.3 | 2733.2 | 2736.6 | 2760.6 | 2792.8 | 2793.9 |
| 20° | 2793.9 | 2793.9 | 2752.6 | 2722.8 | 2722.8 | 2740.1 | 2741.2 | 2746.9 | 2771.0 | 2806.6 | 2812.3 |
| 22.5° | 2827.2 | 2828.4 | 2784.8 | 2760.6 | 2763.0 | 2773.3 | 2776.8 | 2785.9 | 2807.7 | 2846.7 | 2853.6 |
| 25° | 2874.3 | 2876.5 | 2831.8 | 2818.0 | 2826.0 | 2845.6 | 2843.3 | 2850.2 | 2874.3 | 2912.1 | 2919.0 |
| 27.5° | 2939.7 | 2933.9 | 2892.6 | 2886.9 | 2894.9 | 2908.7 | 2907.5 | 2908.7 | 2928.2 | 2962.6 | 2970.6 |
| 30° | 3024.5 | 3022.3 | 2992.4 | 2995.9 | 2992.4 | 2987.8 | 2989.0 | 2998.2 | 3008.5 | 3036.0 | 3044.1 |
| 32.5° | 3107.2 | 3109.5 | 3091.2 | 3108.3 | 3133.5 | 3150.8 | 3124.4 | 3099.2 | 3087.7 | 3102.6 | 3109.5 |
| 35° | 3256.3 | 3262.1 | 3233.4 | 3221.9 | 3256.3 | 3306.8 | 3232.3 | 3190.9 | 3213.9 | 3233.4 | 3239.2 |
| 37.5° | 3509.9 | 3513.3 | 3465.2 | 3419.2 | 3394.0 | 3442.3 | 3367.6 | 3371.1 | 3451.4 | 3488.1 | 3487.0 |
| 40° | 3799.0 | 3800.2 | 3768.1 | 3728.0 | 3684.4 | 3695.8 | 3666.0 | 3675.1 | 3728.0 | 3761.2 | 3770.3 |
| 42.5° | 4143.3 | 4139.9 | 4089.4 | 4032.0 | 4019.3 | 4030.8 | 3980.3 | 3973.5 | 4034.3 | 4094.0 | 4095.1 |
| 45° | 4589.6 | 4581.6 | 4516.2 | 4453.1 | 4392.2 | 4367.0 | 4354.4 | 4387.7 | 4471.4 | 4526.5 | 4527.7 |
| 47.5° | 5070.4 | 5048.6 | 5014.1 | 4963.7 | 4910.9 | 4885.7 | 4865.0 | 4881.1 | 4941.9 | 4963.7 | 4966.0 |
| 50° | 5565.0 | 5569.5 | 5576.4 | 5556.9 | 5537.4 | 5529.4 | 5475.5 | 5444.4 | 5462.8 | 5422.6 | 5416.9 |
| 52.5° | 6151.3 | 6160.4 | 6227.0 | 6283.2 | 6316.5 | 6333.7 | 6231.6 | 6124.8 | 6065.2 | 5987.1 | 5964.2 |
| 55° | 6843.1 | 6858.1 | 6955.6 | 7111.6 | 7272.3 | 7357.2 | 7172.5 | 6972.8 | 6788.1 | 6642.3 | 6595.3 |
| 57.5° | 7614.2 | 7640.6 | 7774.9 | 8074.3 | 8403.6 | 8604.4 | 8292.4 | 7929.7 | 7572.9 | 7363.0 | 7326.2 |
| 60° | 8518.4 | 8543.6 | 8729.5 | 9158.6 | 9692.2 | 9993.9 | 9521.2 | 8928.0 | 8484.0 | 8283.1 | 8215.4 |
| 62.5° | 9594.7 | 9596.9 | 9825.2 | 10326.7 | 11031.2 | 11451.1 | 10810.9 | 10018.0 | 9560.2 | 9318.1 | 9252.7 |
| 65° | 10752.4 | 10758.1 | 10994.5 | 11536.0 | 12264.7 | 12721.3 | 11998.4 | 11172.3 | 10612.4 | 10255.5 | 10205.0 |
| 67.5° | 11570.5 | 11594.6 | 11843.5 | 12495.3 | 13176.8 | 13588.8 | 12840.6 | 11906.7 | 11259.5 | 10833.8 | 10791.4 |
| 70° | 11439.7 | 11533.8 | 11826.4 | 12587.1 | 13534.8 | 14122.4 | 12977.2 | 11819.5 | 10965.8 | 10463.2 | 10427.7 |
| 72.5° | 9976.7 | 10156.8 | 10547.0 | 11545.2 | 13060.9 | 13869.9 | 12232.5 | 10586.0 | 9619.9 | 9191.9 | 9127.7 |
| 75° | 6793.8 | 7086.4 | 7675.0 | 9115.0 | 11158.5 | 12008.8 | 10298.0 | 8440.4 | 7531.6 | 6939.6 | 6896.0 |
| 77.5° | 3029.1 | 3095.7 | 3841.5 | 5499.6 | 7700.3 | 8623.9 | 7482.3 | 5521.4 | 4144.5 | 3305.7 | 3129.0 |
| 80° | 844.4 | 854.8 | 1140.5 | 2048.1 | 3854.2 | 5067.0 | 4137.6 | 2151.4 | 1209.3 | 852.6 | 803.2 |
| 82.5° | 268.5 | 291.5 | 355.7 | 531.3 | 1295.4 | 2312.0 | 1329.9 | 573.7 | 408.5 | 325.9 | 293.7 |
| 85° | 130.8 | 129.7 | 180.2 | 215.7 | 330.4 | 511.7 | 352.2 | 266.2 | 232.9 | 154.9 | 140.0 |
| 87.5° | 55.1 | 56.3 | 83.7 | 75.7 | 96.4 | 82.6 | 113.6 | 119.3 | 125.1 | 68.8 | 59.6 |
| 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)