

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: P650944

Luminaire Tested: **GALN-SA6C-840-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-840-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18288.4 lumens
Efficiency: N/A
Efficacy: 57.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

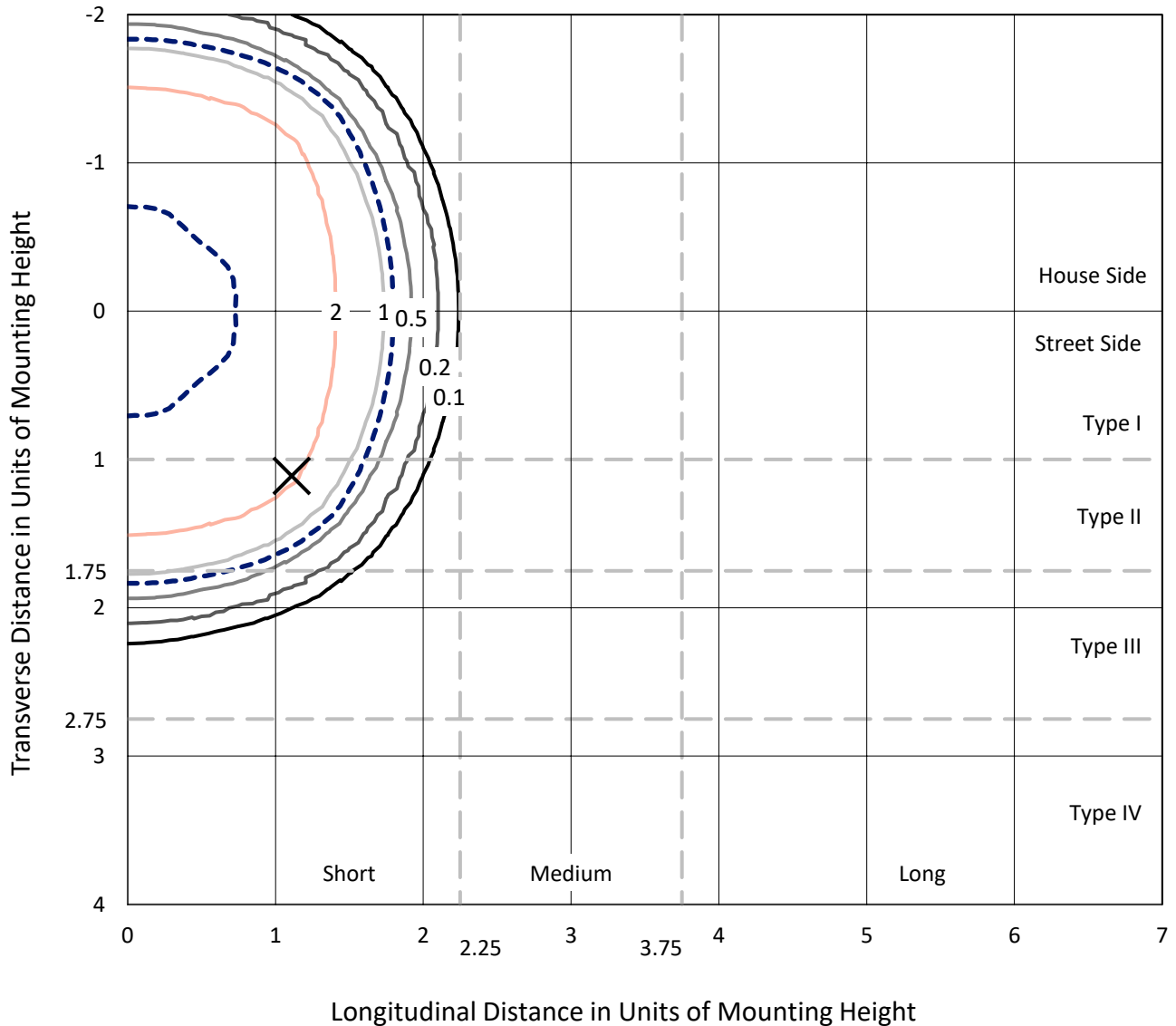
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

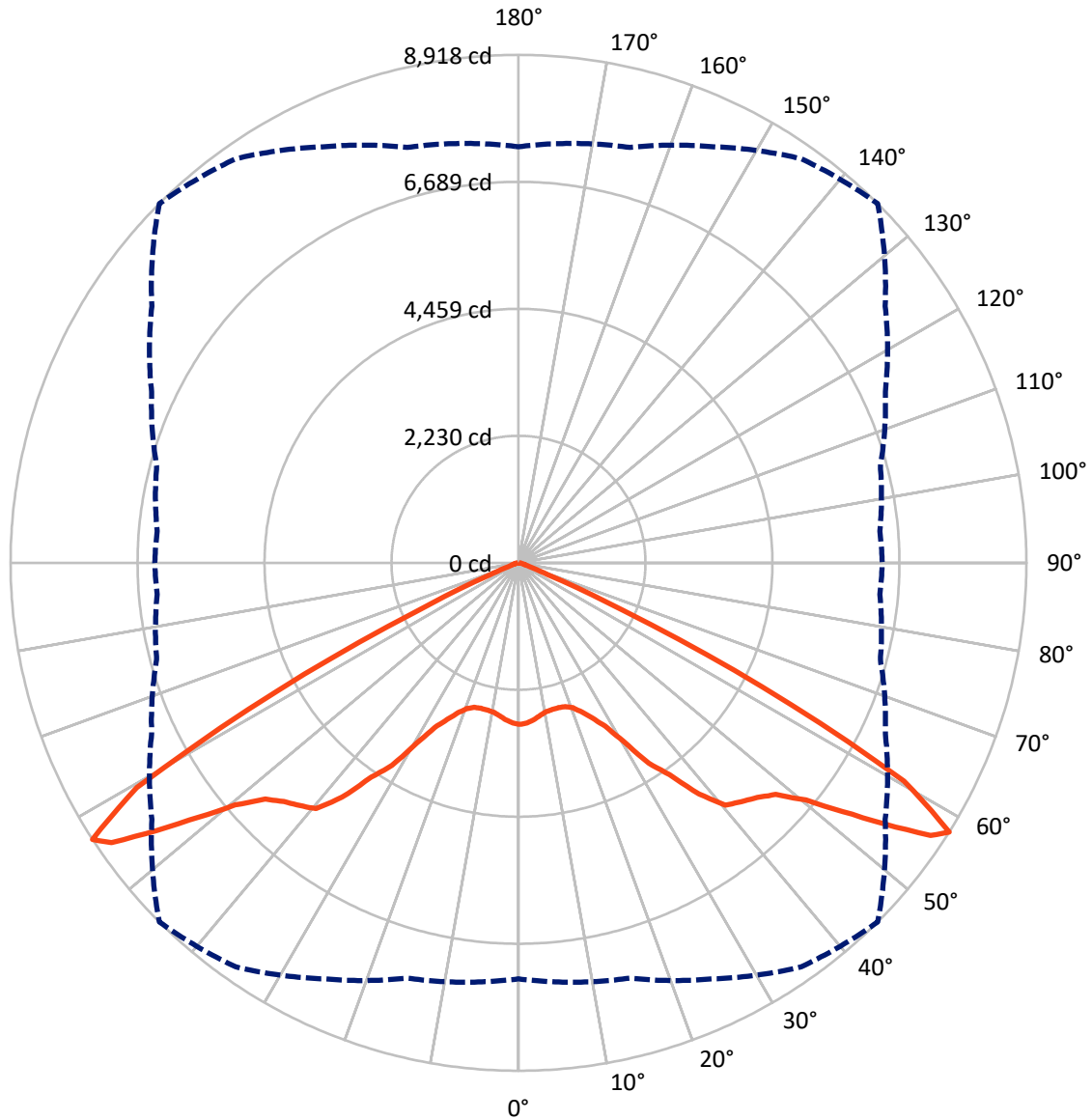
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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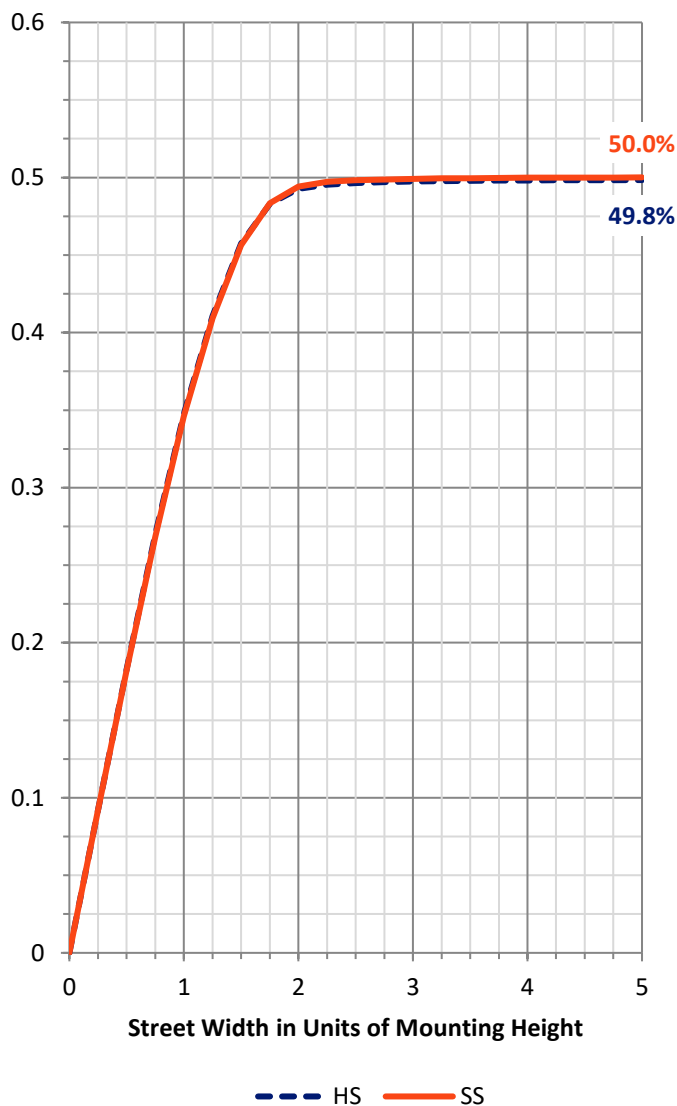
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9144.2 | 0.0 | 9144.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9144.2 | 0.0 | 9144.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 18288.4 | 0.0 | 18288.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 260.7 | 1.4 |
| 10°-20° | 753.5 | 4.1 |
| 20°-30° | 1390.8 | 7.6 |
| 30°-40° | 2735.2 | 15.0 |
| 40°-50° | 4455.0 | 24.4 |
| 50°-60° | 6353.3 | 34.7 |
| 60°-70° | 2199.7 | 12.0 |
| 70°-80° | 118.0 | 0.6 |
| 80°-90° | 22.2 | 0.1 |
| 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° | 18288.4 | 100.0 |
| 0°-180° | 18288.4 | 100.0 |

Coefficient of Utilization



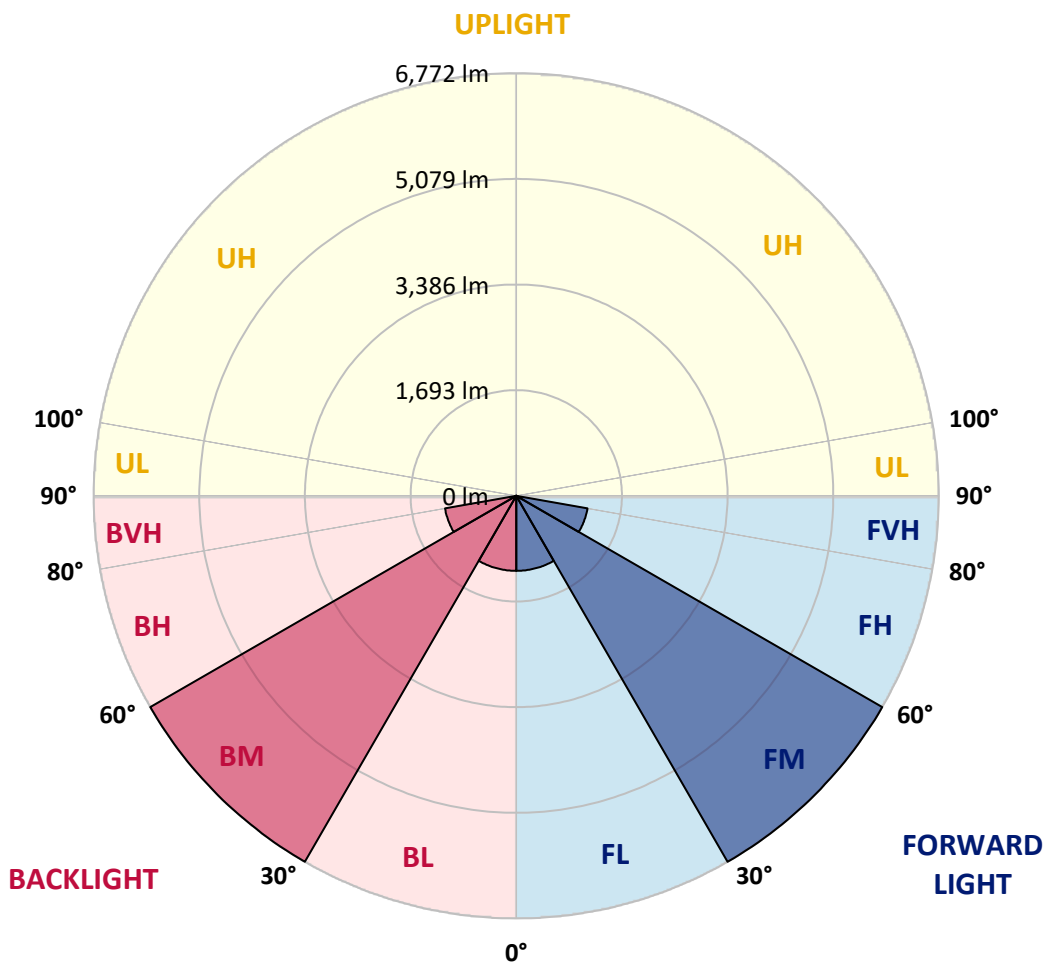
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1202.5 | 6.6 | | | |
| FM (30°-60°) | 6771.8 | 37.0 | | | |
| FH (60°-80°) | 1158.8 | 6.3 | | | G1/1800 |
| FVH (80°-90°) | 11.1 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1202.5 | 6.6 | B3/2500 | | |
| BM (30°-60°) | 6771.8 | 37.0 | B4/8500 | | |
| BH (60°-80°) | 1158.8 | 6.3 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 11.1 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2836.7 | 2836.7 | 2836.7 | 2836.7 | 2836.7 | 2836.7 | 2836.7 | 2836.7 | 2836.7 | 2836.7 | 2836.7 |
| 2.5° | 2829.1 | 2844.3 | 2825.3 | 2817.7 | 2813.8 | 2813.8 | 2802.4 | 2802.4 | 2798.6 | 2802.4 | 2787.2 |
| 5° | 2783.4 | 2798.6 | 2798.6 | 2794.8 | 2771.9 | 2768.1 | 2756.6 | 2749.1 | 2752.8 | 2737.6 | 2749.1 |
| 7.5° | 2737.6 | 2749.1 | 2733.8 | 2730.0 | 2722.3 | 2707.1 | 2703.3 | 2669.0 | 2672.8 | 2672.8 | 2680.4 |
| 10° | 2730.0 | 2726.2 | 2703.3 | 2684.2 | 2661.3 | 2657.6 | 2646.1 | 2638.5 | 2638.5 | 2634.6 | 2646.1 |
| 12.5° | 2730.0 | 2710.9 | 2707.1 | 2665.1 | 2627.0 | 2642.3 | 2611.7 | 2592.7 | 2619.4 | 2627.0 | 2642.3 |
| 15° | 2726.2 | 2745.2 | 2680.4 | 2661.3 | 2634.6 | 2638.5 | 2611.7 | 2592.7 | 2607.9 | 2615.6 | 2627.0 |
| 17.5° | 2749.1 | 2737.6 | 2718.5 | 2680.4 | 2669.0 | 2653.7 | 2619.4 | 2604.2 | 2604.2 | 2623.2 | 2627.0 |
| 20° | 2810.0 | 2779.5 | 2741.4 | 2722.3 | 2733.8 | 2714.7 | 2672.8 | 2615.6 | 2630.8 | 2646.1 | 2657.6 |
| 22.5° | 2867.2 | 2844.3 | 2817.7 | 2806.2 | 2871.0 | 2840.6 | 2768.1 | 2703.3 | 2680.4 | 2707.1 | 2726.2 |
| 25° | 2977.8 | 2977.8 | 2928.2 | 2943.5 | 3015.9 | 3019.7 | 2935.8 | 2821.5 | 2806.2 | 2817.7 | 2825.3 |
| 27.5° | 3202.8 | 3214.2 | 3172.3 | 3187.5 | 3218.0 | 3244.7 | 3172.3 | 3077.0 | 3042.6 | 3038.8 | 3050.2 |
| 30° | 3446.8 | 3469.6 | 3465.8 | 3530.7 | 3618.3 | 3633.6 | 3526.8 | 3370.5 | 3267.5 | 3248.5 | 3263.8 |
| 32.5° | 3767.0 | 3778.4 | 3770.9 | 3847.1 | 4083.5 | 4194.1 | 3915.8 | 3694.6 | 3557.3 | 3591.7 | 3557.3 |
| 35° | 4369.5 | 4358.1 | 4274.1 | 4289.4 | 4483.9 | 4563.9 | 4297.0 | 4156.0 | 4091.1 | 4159.8 | 4144.5 |
| 37.5° | 4888.0 | 4846.1 | 4777.5 | 4876.5 | 5078.6 | 5151.1 | 4872.8 | 4624.9 | 4506.8 | 4621.1 | 4670.7 |
| 40° | 5326.5 | 5219.8 | 5124.4 | 5223.5 | 5494.3 | 5593.4 | 5185.4 | 4983.3 | 4937.6 | 5021.4 | 5128.2 |
| 42.5° | 5696.3 | 5627.7 | 5501.9 | 5509.5 | 5688.7 | 5734.4 | 5406.5 | 5288.4 | 5242.6 | 5376.0 | 5429.4 |
| 45° | 5959.4 | 5894.6 | 5776.4 | 5768.8 | 5906.0 | 5875.5 | 5582.0 | 5501.9 | 5528.6 | 5616.3 | 5642.9 |
| 47.5° | 6092.9 | 6127.2 | 6058.6 | 6077.6 | 6150.1 | 6077.6 | 5845.0 | 5845.0 | 5784.0 | 5837.4 | 5810.7 |
| 50° | 6478.0 | 6371.2 | 6458.9 | 6458.9 | 6535.2 | 6542.7 | 6310.2 | 6226.3 | 6062.3 | 5970.8 | 5970.8 |
| 52.5° | 6927.8 | 6935.5 | 6969.8 | 7095.6 | 7225.3 | 7335.8 | 7004.1 | 6645.7 | 6371.2 | 6253.0 | 6237.7 |
| 55° | 7297.7 | 7374.0 | 7511.2 | 7747.6 | 8121.3 | 8273.8 | 7701.9 | 7061.3 | 6725.8 | 6542.7 | 6504.6 |
| 56° | 7499.8 | 7427.3 | 7663.7 | 7987.8 | 8475.9 | 8674.1 | 7816.3 | 7145.2 | 6775.3 | 6569.5 | 6565.6 |
| 57.5° | 7305.3 | 7385.4 | 7549.3 | 8060.2 | 8658.9 | 8918.1 | 7858.1 | 7107.0 | 6577.0 | 6367.4 | 6386.5 |
| 60° | 5768.8 | 5845.0 | 6066.1 | 6638.1 | 7576.1 | 7778.1 | 6649.5 | 5860.3 | 5387.4 | 5086.3 | 5090.1 |
| 62.5° | 3263.8 | 3320.9 | 3492.5 | 4022.5 | 4605.8 | 4800.3 | 4144.5 | 3618.3 | 3290.4 | 3122.7 | 3069.3 |
| 65° | 1201.0 | 1178.2 | 1204.8 | 1475.5 | 1834.0 | 1997.9 | 1723.4 | 1456.5 | 1284.9 | 1223.9 | 1201.0 |
| 67.5° | 449.9 | 415.6 | 388.9 | 415.6 | 522.3 | 552.9 | 507.1 | 423.2 | 396.5 | 408.0 | 415.6 |
| 70° | 278.4 | 263.1 | 209.7 | 198.2 | 194.4 | 190.7 | 202.1 | 213.5 | 244.1 | 285.9 | 293.6 |
| 72.5° | 194.4 | 183.0 | 148.7 | 141.0 | 133.5 | 129.6 | 148.7 | 163.9 | 190.7 | 221.2 | 225.0 |
| 75° | 76.3 | 80.1 | 76.3 | 83.8 | 87.7 | 91.5 | 106.7 | 118.2 | 129.6 | 129.6 | 125.8 |
| 77.5° | 15.2 | 15.2 | 22.9 | 30.5 | 38.1 | 49.5 | 72.4 | 83.8 | 87.7 | 83.8 | 72.4 |
| 80° | 0.0 | 0.0 | 7.7 | 15.2 | 30.5 | 42.0 | 64.8 | 72.4 | 80.1 | 72.4 | 57.2 |
| 82.5° | 0.0 | 0.0 | 7.7 | 19.1 | 30.5 | 38.1 | 61.0 | 76.3 | 87.7 | 80.1 | 61.0 |
| 85° | 0.0 | 0.0 | 7.7 | 15.2 | 22.9 | 26.7 | 26.7 | 19.1 | 19.1 | 11.4 | 7.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)