

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: P531215

Luminaire Tested: **GALN-SA6C-730-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531215
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-730-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 19805 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

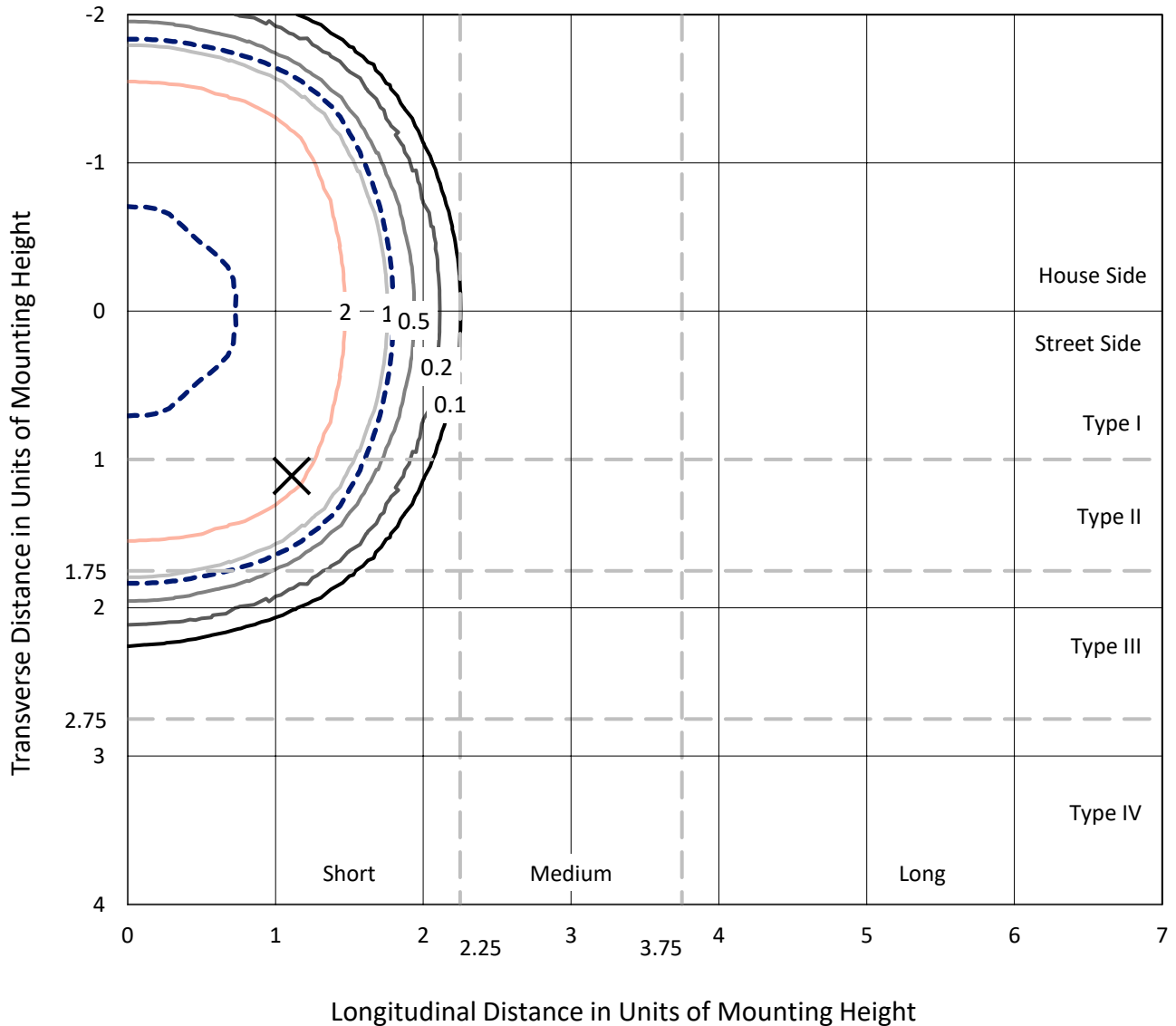
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

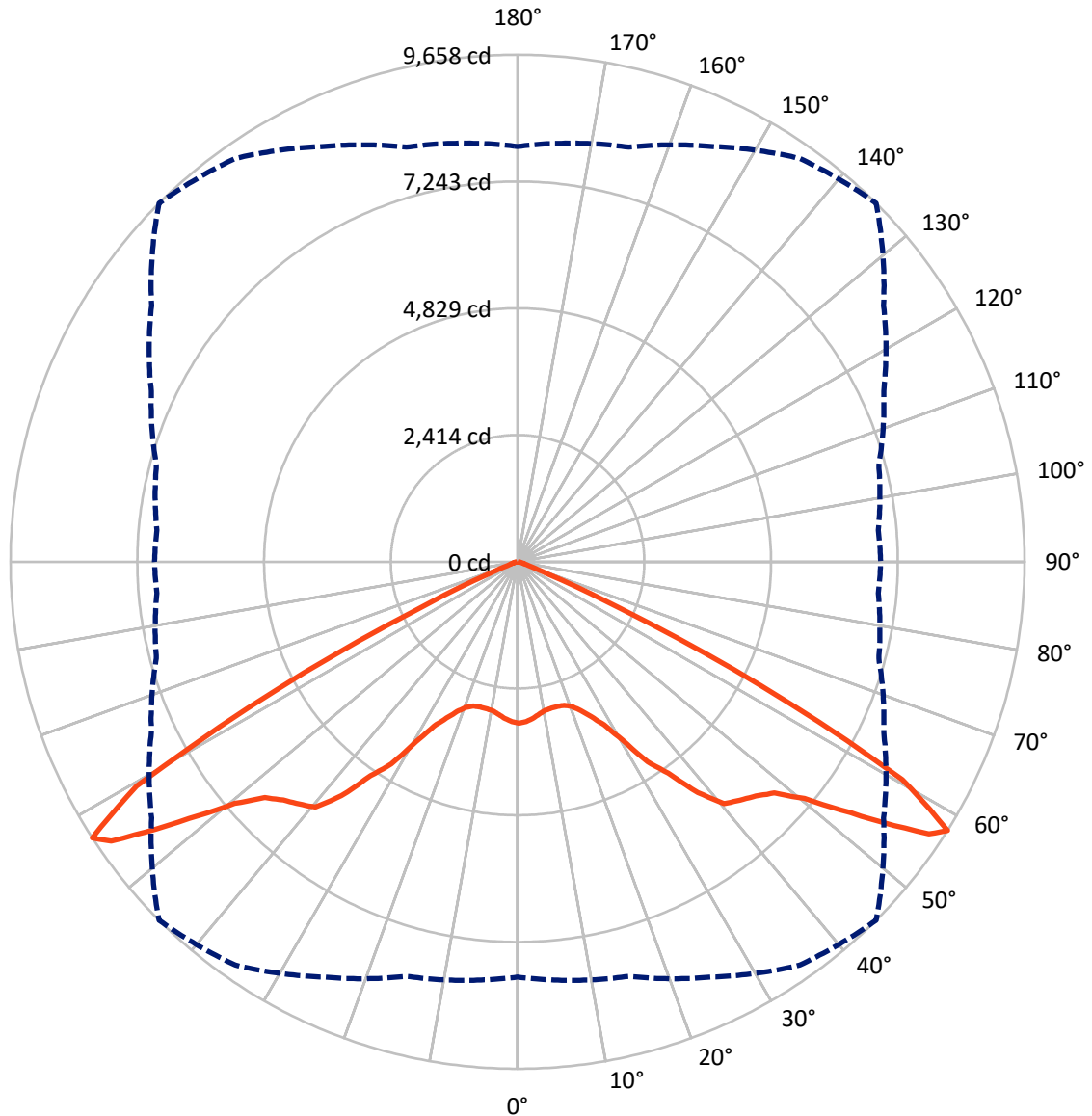
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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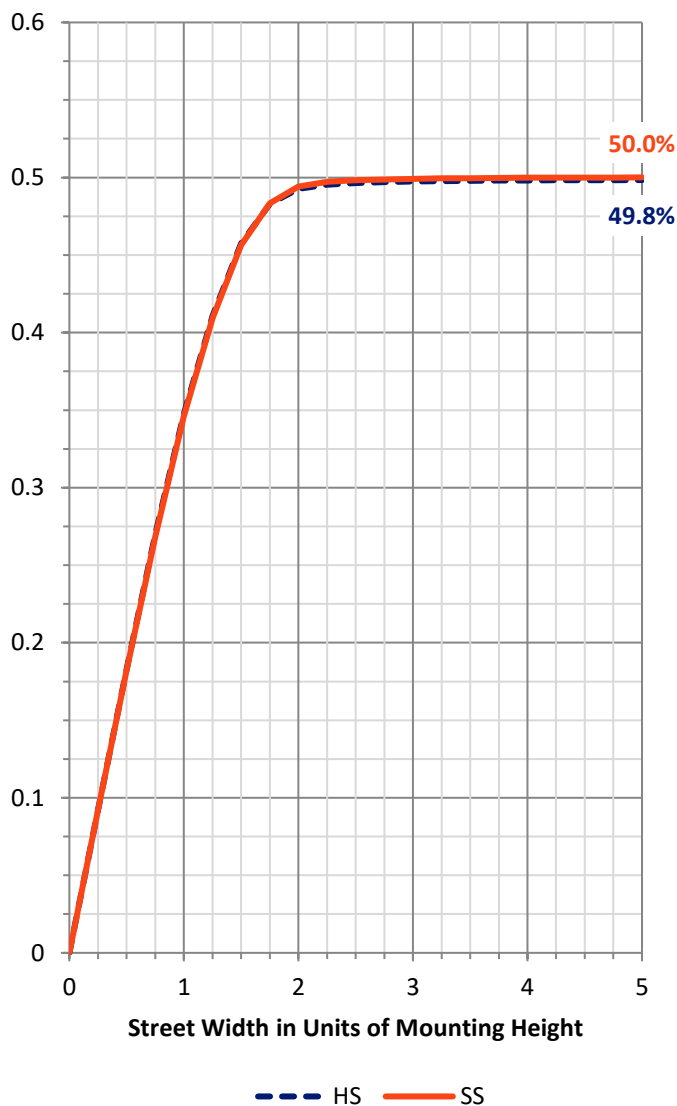
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9902.5 | 0.0 | 9902.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9902.5 | 0.0 | 9902.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 19805.0 | 0.0 | 19805.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 282.3 | 1.4 |
| 10°-20° | 816.0 | 4.1 |
| 20°-30° | 1506.2 | 7.6 |
| 30°-40° | 2962.1 | 15.0 |
| 40°-50° | 4824.4 | 24.4 |
| 50°-60° | 6880.2 | 34.7 |
| 60°-70° | 2382.1 | 12.0 |
| 70°-80° | 127.8 | 0.6 |
| 80°-90° | 24.0 | 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° | 19805.0 | 100.0 |
| 0°-180° | 19805.0 | 100.0 |

Coefficient of Utilization



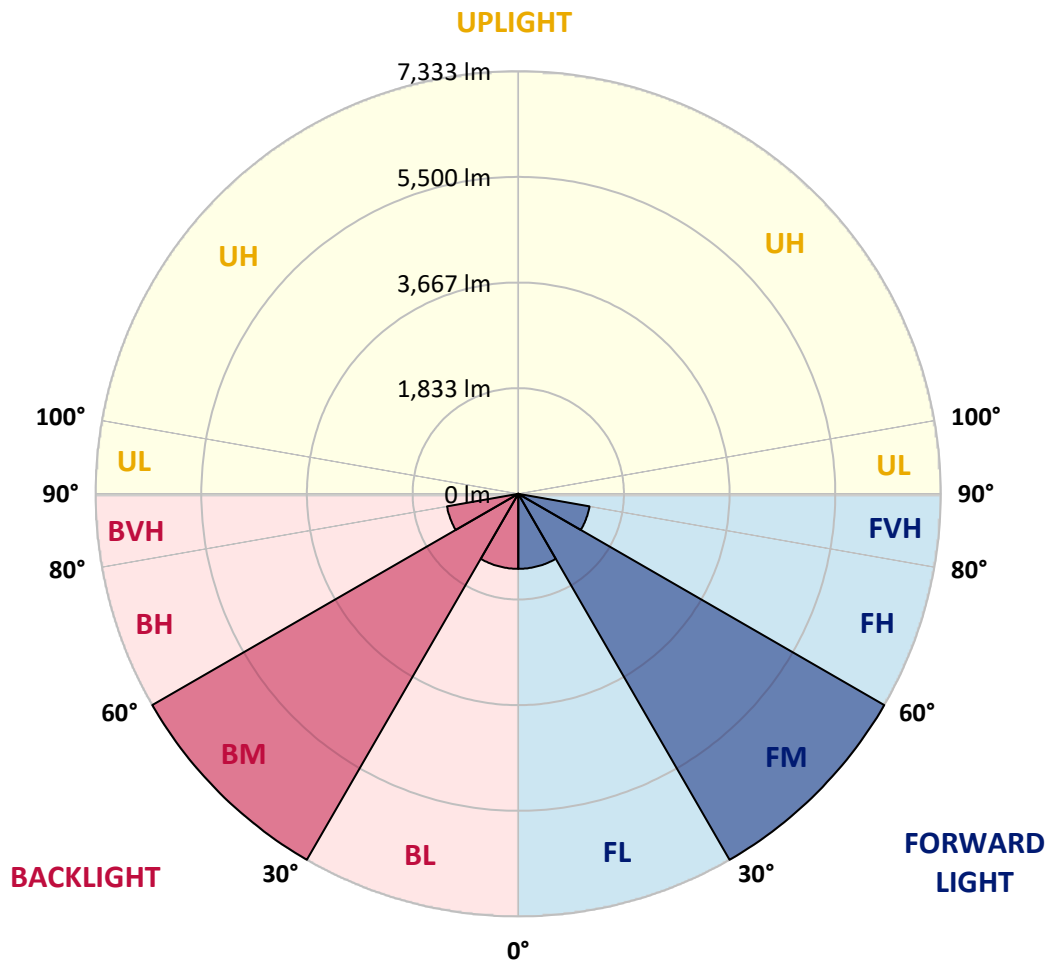
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1302.2 | 6.6 | | | |
| FM (30°-60°) | 7333.3 | 37.0 | | | |
| FH (60°-80°) | 1254.9 | 6.3 | | | G1/1800 |
| FVH (80°-90°) | 12.0 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1302.2 | 6.6 | B3/2500 | | |
| BM (30°-60°) | 7333.3 | 37.0 | B4/8500 | | |
| BH (60°-80°) | 1254.9 | 6.3 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 12.0 | 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° | 3072.0 | 3072.0 | 3072.0 | 3072.0 | 3072.0 | 3072.0 | 3072.0 | 3072.0 | 3072.0 | 3072.0 | 3072.0 |
| 2.5° | 3063.7 | 3080.2 | 3059.6 | 3051.3 | 3047.2 | 3047.2 | 3034.8 | 3034.8 | 3030.7 | 3034.8 | 3018.3 |
| 5° | 3014.2 | 3030.7 | 3030.7 | 3026.5 | 3001.8 | 2997.6 | 2985.3 | 2977.0 | 2981.1 | 2964.6 | 2977.0 |
| 7.5° | 2964.6 | 2977.0 | 2960.5 | 2956.4 | 2948.1 | 2931.6 | 2927.4 | 2890.3 | 2894.4 | 2894.4 | 2902.7 |
| 10° | 2956.4 | 2952.2 | 2927.4 | 2906.8 | 2882.0 | 2877.9 | 2865.5 | 2857.3 | 2857.3 | 2853.1 | 2865.5 |
| 12.5° | 2956.4 | 2935.7 | 2931.6 | 2886.2 | 2844.9 | 2861.4 | 2828.4 | 2807.7 | 2836.6 | 2844.9 | 2861.4 |
| 15° | 2952.2 | 2972.9 | 2902.7 | 2882.0 | 2853.1 | 2857.3 | 2828.4 | 2807.7 | 2824.2 | 2832.5 | 2844.9 |
| 17.5° | 2977.0 | 2964.6 | 2944.0 | 2902.7 | 2890.3 | 2873.8 | 2836.6 | 2820.1 | 2820.1 | 2840.7 | 2844.9 |
| 20° | 3043.1 | 3010.0 | 2968.7 | 2948.1 | 2960.5 | 2939.8 | 2894.4 | 2832.5 | 2849.0 | 2865.5 | 2877.9 |
| 22.5° | 3105.0 | 3080.2 | 3051.3 | 3038.9 | 3109.1 | 3076.1 | 2997.6 | 2927.4 | 2902.7 | 2931.6 | 2952.2 |
| 25° | 3224.7 | 3224.7 | 3171.1 | 3187.6 | 3266.0 | 3270.2 | 3179.3 | 3055.4 | 3038.9 | 3051.3 | 3059.6 |
| 27.5° | 3468.3 | 3480.7 | 3435.3 | 3451.8 | 3484.9 | 3513.8 | 3435.3 | 3332.1 | 3294.9 | 3290.8 | 3303.2 |
| 30° | 3732.6 | 3757.4 | 3753.2 | 3823.4 | 3918.4 | 3934.9 | 3819.3 | 3650.0 | 3538.5 | 3517.9 | 3534.4 |
| 32.5° | 4079.4 | 4091.8 | 4083.6 | 4166.1 | 4422.1 | 4541.9 | 4240.5 | 4001.0 | 3852.3 | 3889.5 | 3852.3 |
| 35° | 4731.8 | 4719.4 | 4628.6 | 4645.1 | 4855.7 | 4942.4 | 4653.4 | 4500.6 | 4430.4 | 4504.7 | 4488.2 |
| 37.5° | 5293.4 | 5247.9 | 5173.6 | 5281.0 | 5499.8 | 5578.3 | 5276.8 | 5008.5 | 4880.5 | 5004.3 | 5058.0 |
| 40° | 5768.2 | 5652.6 | 5549.4 | 5656.7 | 5949.9 | 6057.2 | 5615.4 | 5396.6 | 5347.0 | 5437.9 | 5553.5 |
| 42.5° | 6168.7 | 6094.4 | 5958.1 | 5966.4 | 6160.4 | 6210.0 | 5854.9 | 5726.9 | 5677.4 | 5821.9 | 5879.7 |
| 45° | 6453.6 | 6383.4 | 6255.4 | 6247.2 | 6395.8 | 6362.8 | 6044.8 | 5958.1 | 5987.0 | 6082.0 | 6110.9 |
| 47.5° | 6598.1 | 6635.3 | 6561.0 | 6581.6 | 6660.0 | 6581.6 | 6329.7 | 6329.7 | 6263.7 | 6321.5 | 6292.6 |
| 50° | 7015.1 | 6899.5 | 6994.5 | 6994.5 | 7077.1 | 7085.3 | 6833.5 | 6742.6 | 6565.1 | 6466.0 | 6466.0 |
| 52.5° | 7502.4 | 7510.6 | 7547.8 | 7684.0 | 7824.4 | 7944.2 | 7584.9 | 7196.8 | 6899.5 | 6771.5 | 6755.0 |
| 55° | 7902.9 | 7985.5 | 8134.1 | 8390.1 | 8794.7 | 8959.9 | 8340.5 | 7646.9 | 7283.5 | 7085.3 | 7044.0 |
| 56° | 8121.7 | 8043.3 | 8299.3 | 8650.2 | 9178.7 | 9393.4 | 8464.4 | 7737.7 | 7337.2 | 7114.2 | 7110.1 |
| 57.5° | 7911.1 | 7997.8 | 8175.4 | 8728.7 | 9376.9 | 9657.7 | 8509.8 | 7696.4 | 7122.5 | 6895.4 | 6916.0 |
| 60° | 6247.2 | 6329.7 | 6569.2 | 7188.6 | 8204.3 | 8423.1 | 7200.9 | 6346.2 | 5834.3 | 5508.1 | 5512.2 |
| 62.5° | 3534.4 | 3596.3 | 3782.1 | 4356.1 | 4987.8 | 5198.4 | 4488.2 | 3918.4 | 3563.3 | 3381.6 | 3323.8 |
| 65° | 1300.6 | 1275.9 | 1304.8 | 1597.9 | 1986.0 | 2163.6 | 1866.3 | 1577.3 | 1391.5 | 1325.4 | 1300.6 |
| 67.5° | 487.2 | 450.1 | 421.2 | 450.1 | 565.7 | 598.7 | 549.2 | 458.3 | 429.4 | 441.8 | 450.1 |
| 70° | 301.4 | 284.9 | 227.1 | 214.7 | 210.6 | 206.4 | 218.8 | 231.2 | 264.3 | 309.7 | 317.9 |
| 72.5° | 210.6 | 198.2 | 161.0 | 152.8 | 144.5 | 140.4 | 161.0 | 177.5 | 206.4 | 239.5 | 243.6 |
| 75° | 82.6 | 86.7 | 82.6 | 90.8 | 95.0 | 99.1 | 115.6 | 128.0 | 140.4 | 140.4 | 136.3 |
| 77.5° | 16.5 | 16.5 | 24.8 | 33.0 | 41.3 | 53.7 | 78.5 | 90.8 | 95.0 | 90.8 | 78.5 |
| 80° | 0.0 | 0.0 | 8.3 | 16.5 | 33.0 | 45.4 | 70.2 | 78.5 | 86.7 | 78.5 | 61.9 |
| 82.5° | 0.0 | 0.0 | 8.3 | 20.6 | 33.0 | 41.3 | 66.1 | 82.6 | 95.0 | 86.7 | 66.1 |
| 85° | 0.0 | 0.0 | 8.3 | 16.5 | 24.8 | 28.9 | 28.9 | 20.6 | 20.6 | 12.4 | 8.3 |
| 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)