

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: P531476

Luminaire Tested: **GALN-SA6D-735-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-735-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36254 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

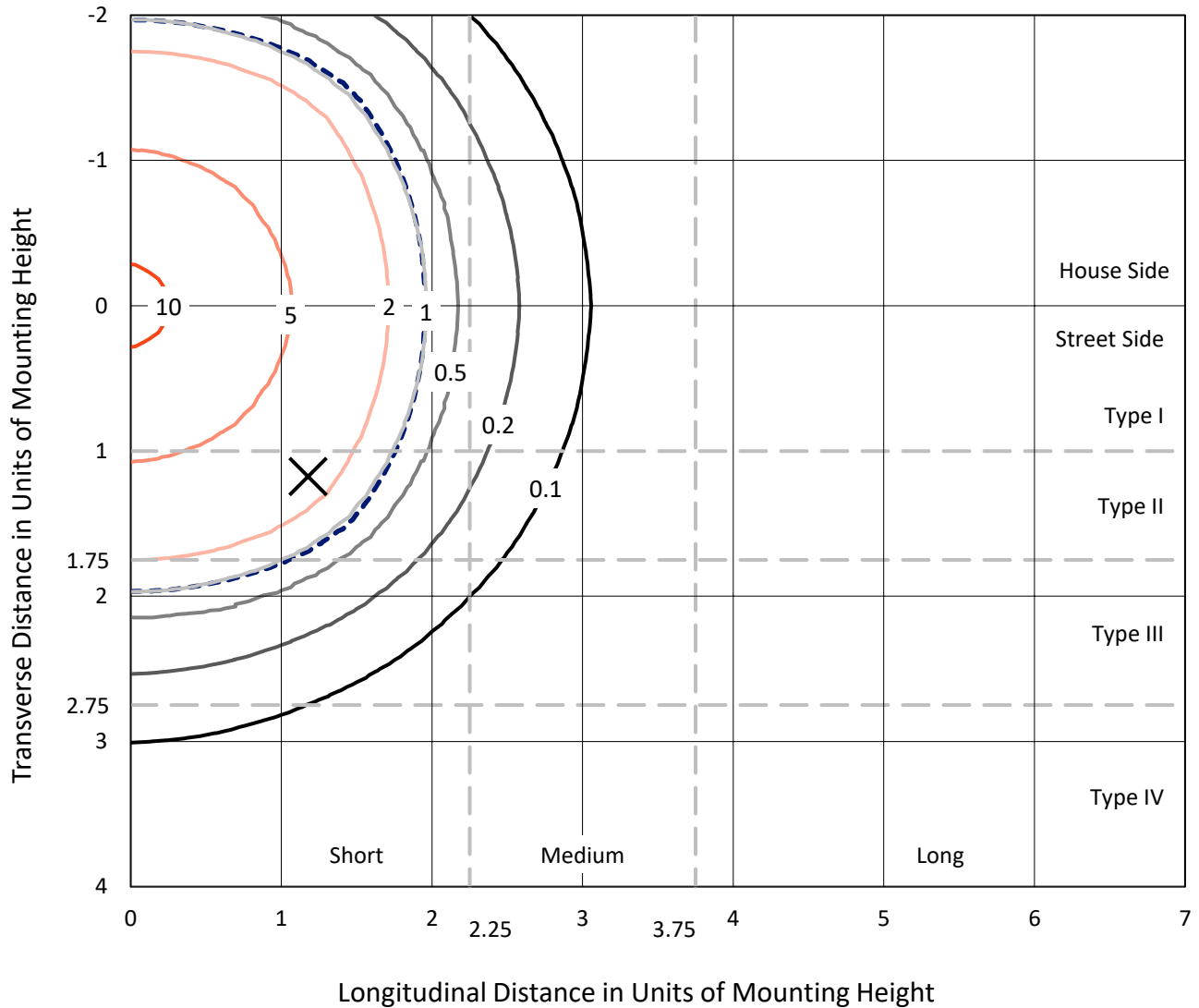
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

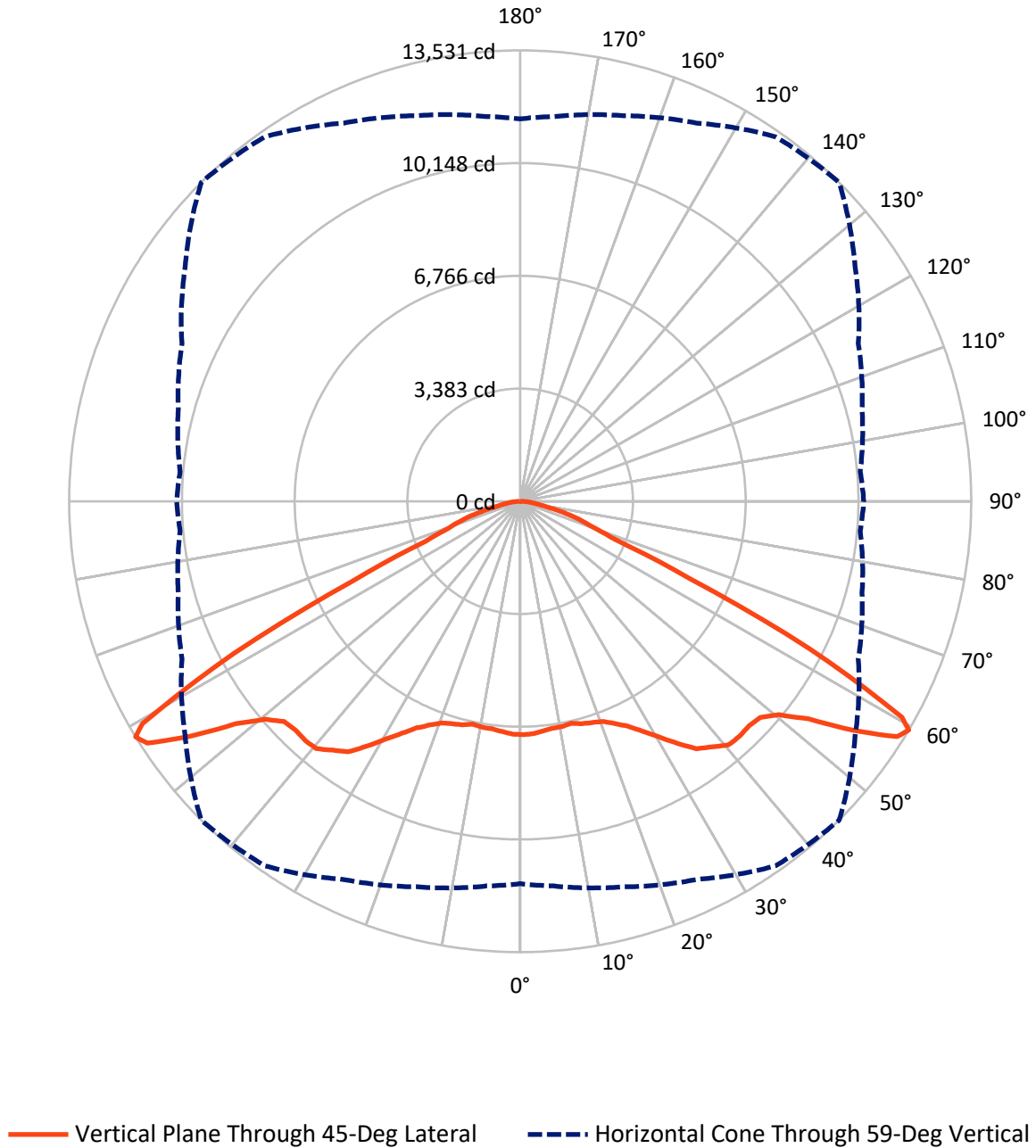
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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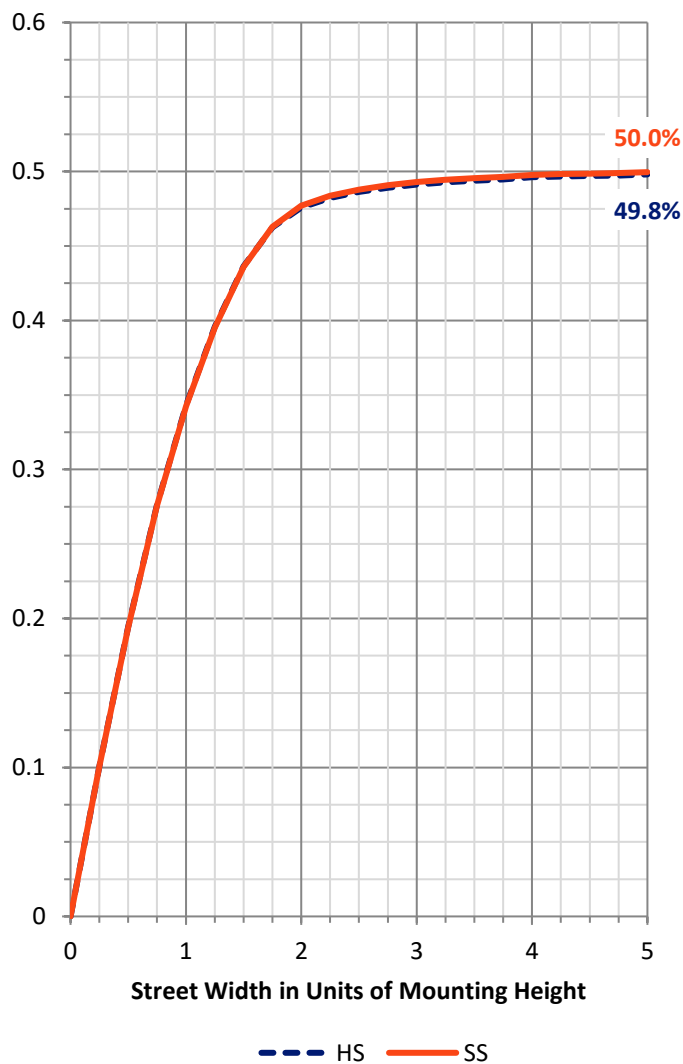
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 18127.0 | 0.0 | 18127.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 18127.0 | 0.0 | 18127.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 36254.0 | 0.0 | 36254.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 660.1 | 1.8 |
| 10°-20° | 1963.1 | 5.4 |
| 20°-30° | 3427.7 | 9.5 |
| 30°-40° | 5474.6 | 15.1 |
| 40°-50° | 7457.5 | 20.6 |
| 50°-60° | 10084.5 | 27.8 |
| 60°-70° | 5530.4 | 15.3 |
| 70°-80° | 1414.8 | 3.9 |
| 80°-90° | 241.3 | 0.7 |
| 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° | 36254.0 | 100.0 |
| 0°-180° | 36254.0 | 100.0 |

Coefficient of Utilization



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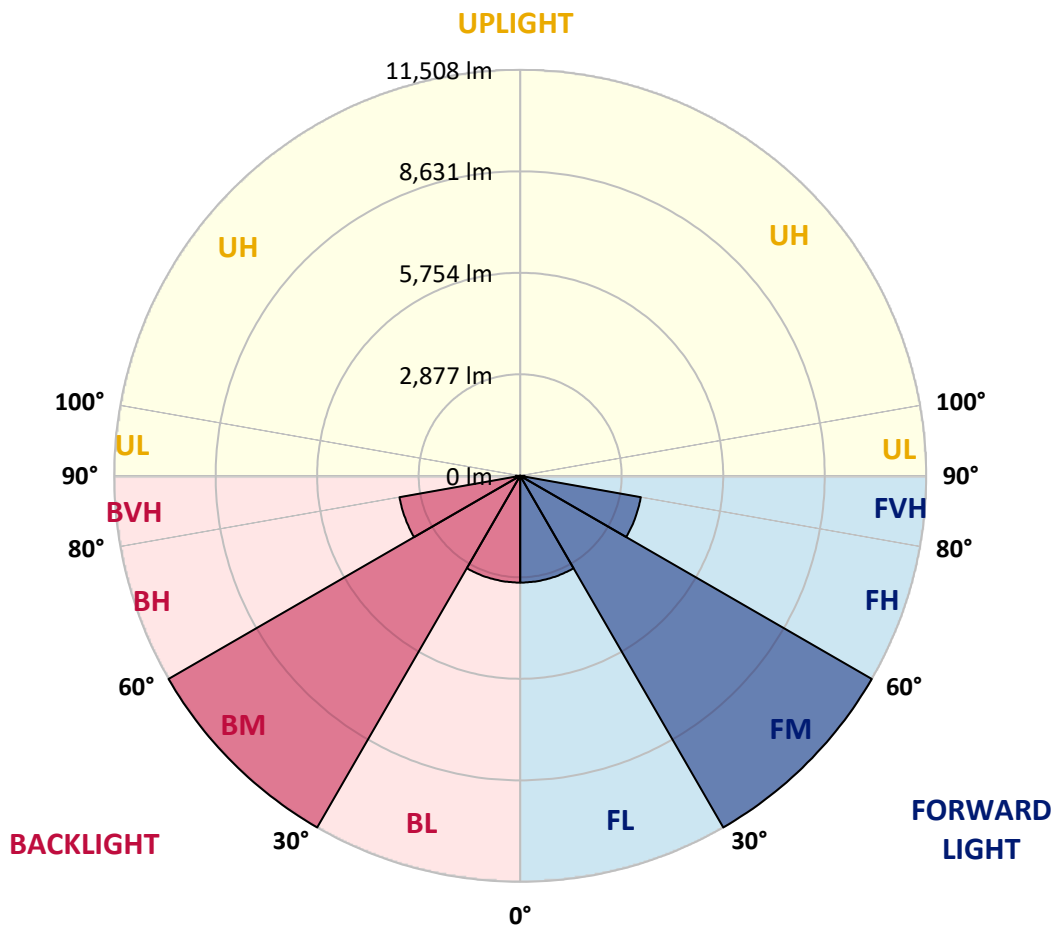
CATALOG NUMBER: GALN-SA6D-735-U-5WQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3025.5 | 8.3 | | | |
| FM (30°-60°) | 11508.3 | 31.7 | | | |
| FH (60°-80°) | 3472.6 | 9.6 | | | G2/5000 |
| FVH (80°-90°) | 120.7 | 0.3 | | | G2/225 |
| BL (0°-30°) | 3025.5 | 8.3 | B4/5000 | | |
| BM (30°-60°) | 11508.3 | 31.7 | B5 | | |
| BH (60°-80°) | 3472.6 | 9.6 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 120.7 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7002.5 | 7002.5 | 7002.5 | 7002.5 | 7002.5 | 7002.5 | 7002.5 | 7002.5 | 7002.5 | 7002.5 | 7002.5 |
| 2.5° | 6960.7 | 7011.8 | 6974.7 | 7007.2 | 7002.5 | 6988.6 | 6965.4 | 6951.4 | 6932.8 | 6960.7 | 6914.3 |
| 5° | 6932.8 | 6974.7 | 7016.5 | 6960.7 | 6960.7 | 6932.8 | 6918.9 | 6891.0 | 6891.0 | 6886.4 | 6881.7 |
| 7.5° | 6979.3 | 6937.5 | 6918.9 | 6928.2 | 6937.5 | 6877.1 | 6918.9 | 6863.1 | 6816.7 | 6849.2 | 6886.4 |
| 10° | 6937.5 | 6956.1 | 6886.4 | 6918.9 | 6867.8 | 6877.1 | 6849.2 | 6886.4 | 6835.3 | 6835.3 | 6835.3 |
| 12.5° | 6979.3 | 6928.2 | 6951.4 | 6928.2 | 6914.3 | 6835.3 | 6872.4 | 6830.6 | 6826.0 | 6872.4 | 6830.6 |
| 15° | 7062.9 | 6979.3 | 6960.7 | 6914.3 | 6928.2 | 6928.2 | 6891.0 | 6895.7 | 6844.6 | 6872.4 | 6881.7 |
| 17.5° | 7035.1 | 6988.6 | 6974.7 | 6918.9 | 6965.4 | 6979.3 | 6909.6 | 6863.1 | 6895.7 | 6891.0 | 6886.4 |
| 20° | 7058.3 | 7076.9 | 7062.9 | 7072.2 | 7090.8 | 7053.7 | 6988.6 | 6923.5 | 6881.7 | 6942.1 | 6937.5 |
| 22.5° | 7207.0 | 7188.4 | 7179.1 | 7169.8 | 7202.3 | 7239.5 | 7151.2 | 7049.0 | 7049.0 | 7090.8 | 7109.4 |
| 25° | 7327.8 | 7323.2 | 7318.5 | 7360.3 | 7471.9 | 7471.9 | 7360.3 | 7230.2 | 7197.7 | 7225.6 | 7202.3 |
| 27.5° | 7504.4 | 7555.5 | 7536.9 | 7611.3 | 7773.9 | 7811.1 | 7662.4 | 7509.0 | 7420.7 | 7388.2 | 7430.0 |
| 30° | 7908.6 | 7848.2 | 7862.2 | 7941.2 | 8085.2 | 8206.0 | 7978.3 | 7815.7 | 7694.9 | 7690.2 | 7708.8 |
| 32.5° | 8178.1 | 8224.6 | 8266.4 | 8340.8 | 8568.5 | 8661.4 | 8387.2 | 8122.4 | 8048.0 | 8006.2 | 8020.2 |
| 35° | 8717.2 | 8675.3 | 8666.0 | 8740.4 | 8968.1 | 9121.4 | 8777.6 | 8545.2 | 8447.7 | 8540.6 | 8540.6 |
| 37.5° | 9228.3 | 9112.1 | 9023.8 | 9121.4 | 9330.5 | 9349.1 | 9056.4 | 8930.9 | 8879.8 | 8986.7 | 8982.0 |
| 40° | 9469.9 | 9460.6 | 9256.2 | 9311.9 | 9590.7 | 9618.6 | 9344.5 | 9195.8 | 9186.5 | 9325.9 | 9465.3 |
| 42.5° | 9720.8 | 9632.6 | 9428.1 | 9465.3 | 9637.2 | 9646.5 | 9386.3 | 9344.5 | 9446.7 | 9581.4 | 9590.7 |
| 45° | 9762.7 | 9688.3 | 9558.2 | 9465.3 | 9590.7 | 9618.6 | 9465.3 | 9493.2 | 9502.5 | 9665.1 | 9665.1 |
| 47.5° | 9846.3 | 9837.0 | 9762.7 | 9693.0 | 9716.2 | 9693.0 | 9595.4 | 9637.2 | 9776.6 | 9855.6 | 9818.4 |
| 50° | 10078.6 | 9981.1 | 10055.4 | 9995.0 | 9999.6 | 10064.7 | 9976.4 | 10018.2 | 9990.4 | 9920.7 | 9874.2 |
| 52.5° | 10589.8 | 10543.3 | 10608.4 | 10650.2 | 10696.6 | 10845.3 | 10743.1 | 10520.1 | 10311.0 | 10125.1 | 10120.5 |
| 55° | 11337.9 | 11370.4 | 11495.9 | 11709.6 | 11890.8 | 12127.8 | 11635.3 | 11100.9 | 10766.3 | 10473.6 | 10492.2 |
| 57.5° | 12044.2 | 12020.9 | 12192.9 | 12680.8 | 13210.5 | 13331.3 | 12364.8 | 11602.7 | 11059.1 | 10873.2 | 10794.2 |
| 59° | 11477.3 | 11588.8 | 11979.1 | 12522.8 | 13354.5 | 13531.1 | 12267.2 | 11193.8 | 10617.7 | 10241.3 | 10306.3 |
| 60° | 10585.1 | 10626.9 | 10975.4 | 11732.9 | 12857.3 | 13159.4 | 11612.0 | 10561.9 | 9795.2 | 9576.8 | 9674.4 |
| 62.5° | 7481.1 | 7448.6 | 7699.5 | 8317.5 | 9325.9 | 9734.8 | 8633.5 | 7894.7 | 7411.4 | 7169.8 | 7225.6 |
| 65° | 3977.6 | 4126.2 | 4228.5 | 4614.1 | 5148.5 | 5580.7 | 5125.3 | 4804.7 | 4535.2 | 4335.3 | 4330.7 |
| 67.5° | 2685.8 | 2667.2 | 2690.4 | 2778.7 | 2959.9 | 3080.7 | 3071.5 | 2908.8 | 2885.6 | 2848.4 | 2890.2 |
| 70° | 2262.9 | 2253.6 | 2211.8 | 2211.8 | 2249.0 | 2276.9 | 2309.4 | 2328.0 | 2365.2 | 2411.6 | 2407.0 |
| 72.5° | 1835.4 | 1812.2 | 1784.3 | 1770.4 | 1816.8 | 1830.8 | 1872.6 | 1891.2 | 1923.7 | 1919.1 | 1960.9 |
| 75° | 1212.8 | 1212.8 | 1245.3 | 1282.5 | 1296.4 | 1324.3 | 1328.9 | 1384.7 | 1384.7 | 1394.0 | 1356.8 |
| 77.5° | 678.4 | 659.8 | 683.1 | 720.2 | 752.8 | 803.9 | 855.0 | 896.8 | 920.0 | 910.7 | 910.7 |
| 80° | 395.0 | 395.0 | 418.2 | 460.0 | 501.8 | 548.3 | 585.5 | 618.0 | 641.2 | 631.9 | 613.4 |
| 82.5° | 246.3 | 246.3 | 269.5 | 311.3 | 343.9 | 371.7 | 422.8 | 464.7 | 492.5 | 483.3 | 460.0 |
| 85° | 125.5 | 125.5 | 153.3 | 181.2 | 223.0 | 241.6 | 237.0 | 218.4 | 213.7 | 190.5 | 190.5 |
| 87.5° | 32.5 | 32.5 | 46.5 | 51.1 | 41.8 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 | 51.1 |
| 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)