

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: P533790

Luminaire Tested: **GALN-SA9B-730-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533790
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-SA9B-730-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA 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: 39855 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

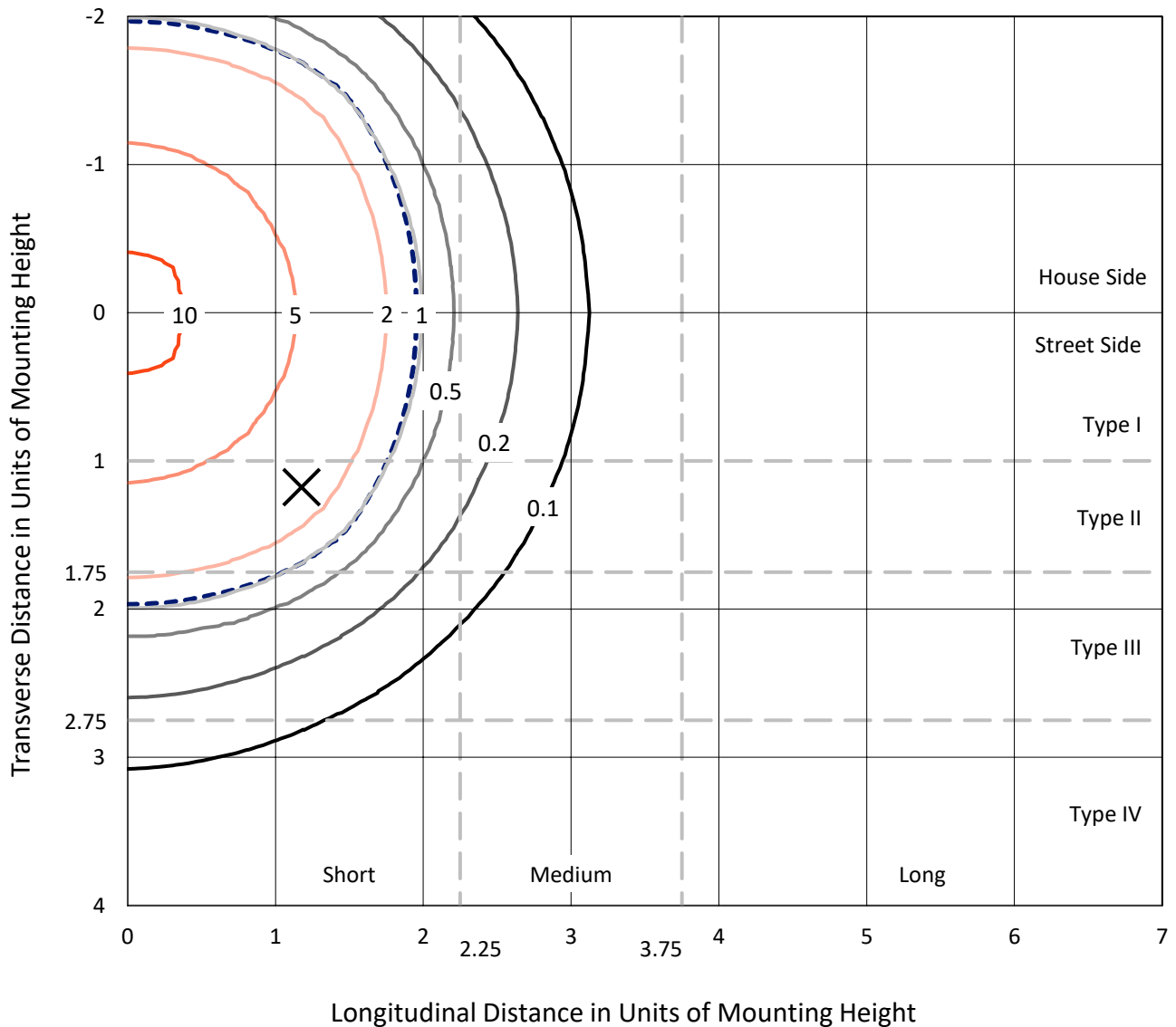
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

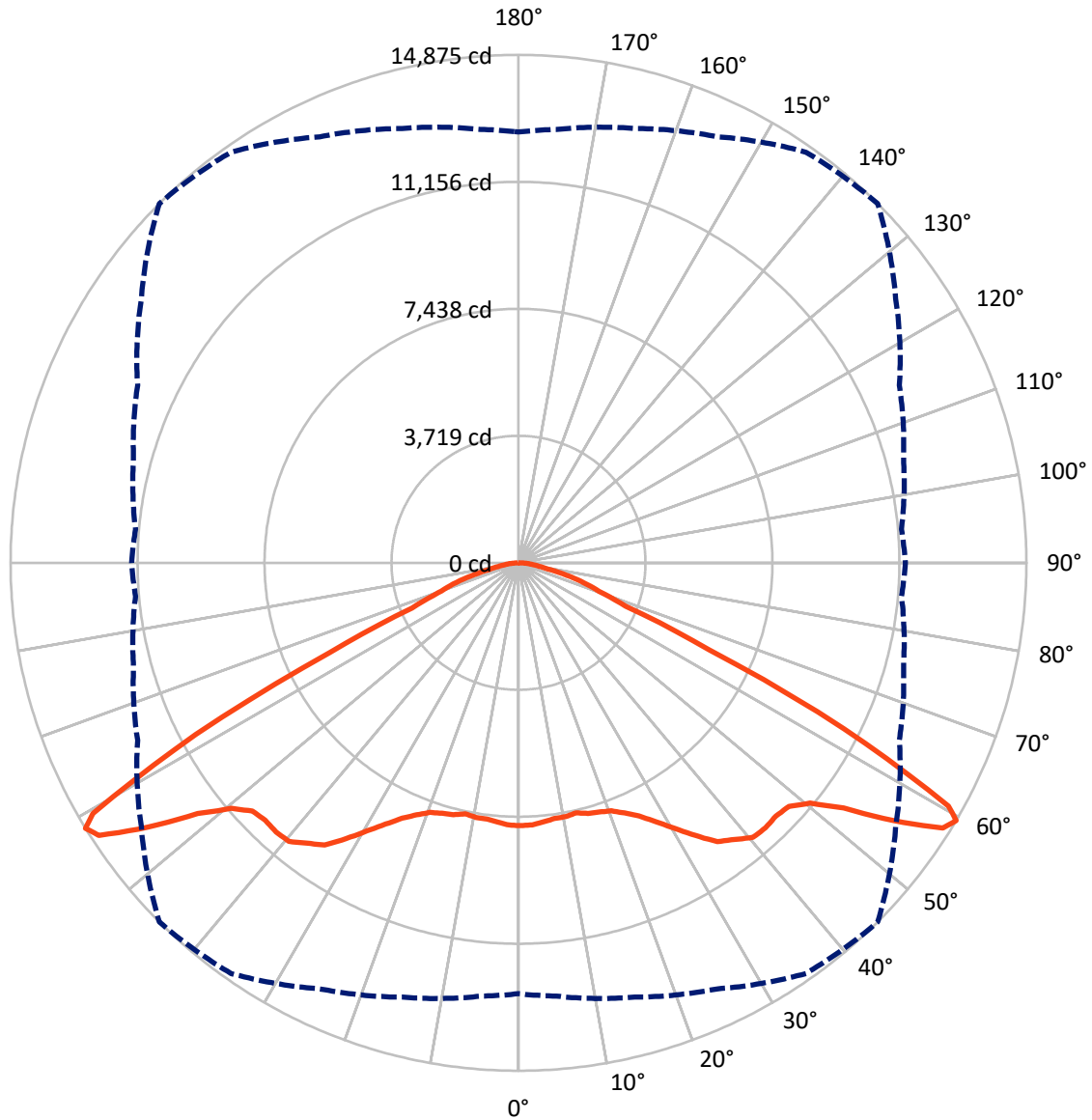
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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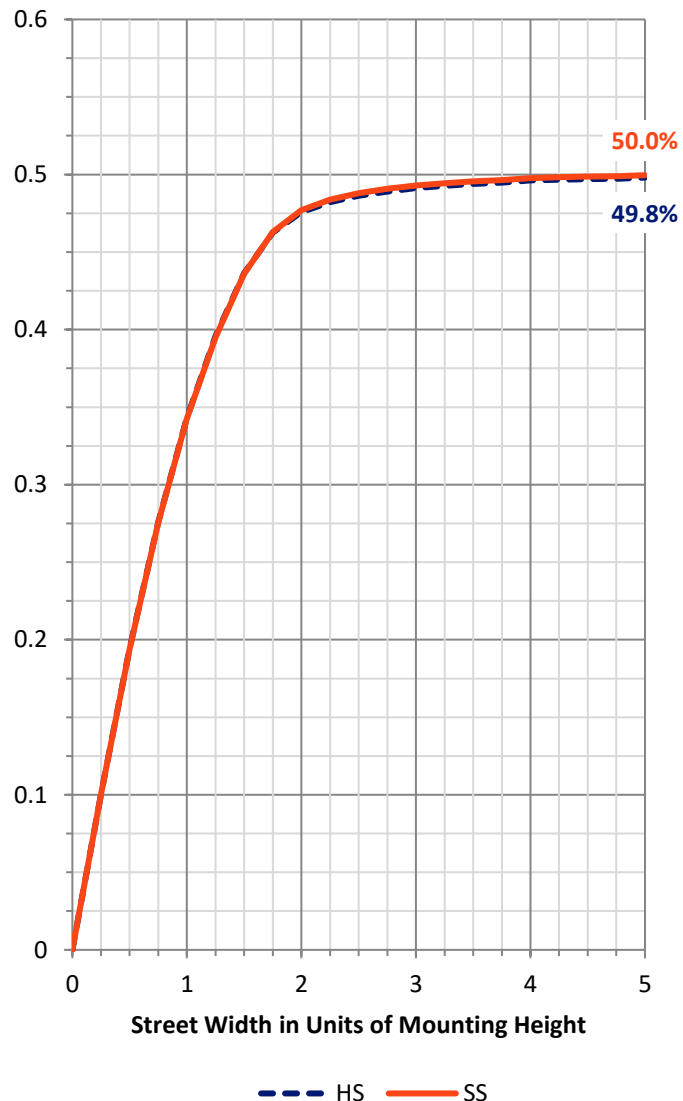
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 19927.5 | 0.0 | 19927.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 19927.5 | 0.0 | 19927.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 39855.0 | 0.0 | 39855.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 725.7 | 1.8 |
| 10°-20° | 2158.0 | 5.4 |
| 20°-30° | 3768.2 | 9.5 |
| 30°-40° | 6018.4 | 15.1 |
| 40°-50° | 8198.2 | 20.6 |
| 50°-60° | 11086.2 | 27.8 |
| 60°-70° | 6079.7 | 15.3 |
| 70°-80° | 1555.4 | 3.9 |
| 80°-90° | 265.3 | 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° | 39855.0 | 100.0 |
| 0°-180° | 39855.0 | 100.0 |

Coefficient of Utilization



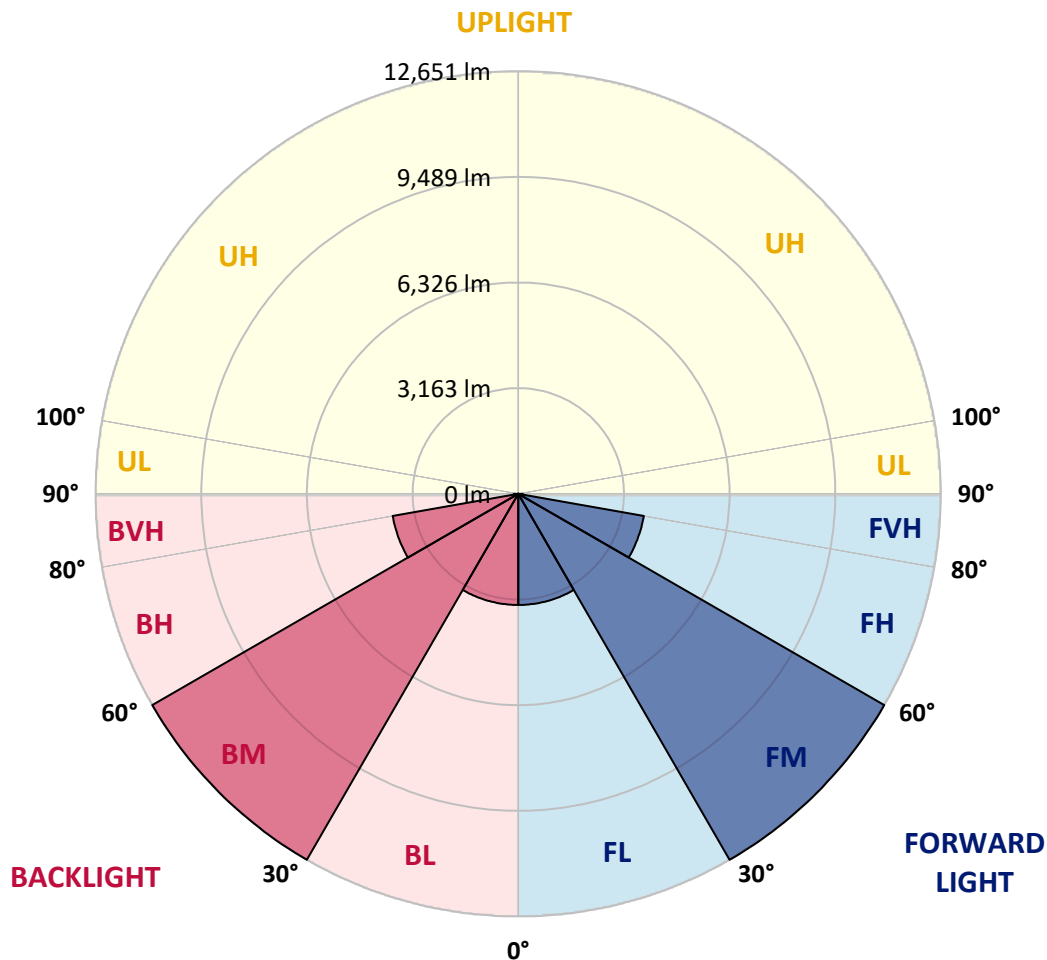
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3326.0 | 8.3 | | | |
| FM (30°-60°) | 12651.4 | 31.7 | | | |
| FH (60°-80°) | 3817.5 | 9.6 | | | G2/5000 |
| FVH (80°-90°) | 132.6 | 0.3 | | | G2/225 |
| BL (0°-30°) | 3326.0 | 8.3 | B4/5000 | | |
| BM (30°-60°) | 12651.4 | 31.7 | B5 | | |
| BH (60°-80°) | 3817.5 | 9.6 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 132.6 | 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° | 7698.1 | 7698.1 | 7698.1 | 7698.1 | 7698.1 | 7698.1 | 7698.1 | 7698.1 | 7698.1 | 7698.1 | 7698.1 |
| 2.5° | 7652.1 | 7708.3 | 7667.4 | 7703.2 | 7698.1 | 7682.8 | 7657.2 | 7641.9 | 7621.5 | 7652.1 | 7601.0 |
| 5° | 7621.5 | 7667.4 | 7713.4 | 7652.1 | 7652.1 | 7621.5 | 7606.1 | 7575.5 | 7575.5 | 7570.4 | 7565.3 |
| 7.5° | 7672.5 | 7626.6 | 7606.1 | 7616.3 | 7626.6 | 7560.2 | 7606.1 | 7544.8 | 7493.8 | 7529.5 | 7570.4 |
| 10° | 7626.6 | 7647.0 | 7570.4 | 7606.1 | 7549.9 | 7560.2 | 7529.5 | 7570.4 | 7514.2 | 7514.2 | 7514.2 |
| 12.5° | 7672.5 | 7616.3 | 7641.9 | 7616.3 | 7601.0 | 7514.2 | 7555.1 | 7509.1 | 7504.0 | 7555.1 | 7509.1 |
| 15° | 7764.5 | 7672.5 | 7652.1 | 7601.0 | 7616.3 | 7616.3 | 7575.5 | 7580.6 | 7524.4 | 7555.1 | 7565.3 |
| 17.5° | 7733.8 | 7682.8 | 7667.4 | 7606.1 | 7657.2 | 7672.5 | 7595.9 | 7544.8 | 7580.6 | 7575.5 | 7570.4 |
| 20° | 7759.4 | 7779.8 | 7764.5 | 7774.7 | 7795.1 | 7754.3 | 7682.8 | 7611.2 | 7565.3 | 7631.7 | 7626.6 |
| 22.5° | 7922.8 | 7902.4 | 7892.2 | 7882.0 | 7917.7 | 7958.6 | 7861.5 | 7749.2 | 7749.2 | 7795.1 | 7815.6 |
| 25° | 8055.7 | 8050.5 | 8045.4 | 8091.4 | 8214.0 | 8214.0 | 8091.4 | 7948.4 | 7912.6 | 7943.3 | 7917.7 |
| 27.5° | 8249.8 | 8306.0 | 8285.5 | 8367.3 | 8546.0 | 8586.9 | 8423.4 | 8254.9 | 8157.8 | 8122.1 | 8168.0 |
| 30° | 8694.2 | 8627.8 | 8643.1 | 8729.9 | 8888.3 | 9021.1 | 8770.8 | 8592.0 | 8459.2 | 8454.1 | 8474.5 |
| 32.5° | 8990.5 | 9041.5 | 9087.5 | 9169.2 | 9419.5 | 9521.7 | 9220.3 | 8929.2 | 8847.4 | 8801.5 | 8816.8 |
| 35° | 9583.0 | 9537.0 | 9526.8 | 9608.6 | 9858.9 | 10027.4 | 9649.4 | 9394.0 | 9286.7 | 9388.9 | 9388.9 |
| 37.5° | 10144.9 | 10017.2 | 9920.2 | 10027.4 | 10257.3 | 10277.7 | 9955.9 | 9818.0 | 9761.8 | 9879.3 | 9874.2 |
| 40° | 10410.5 | 10400.3 | 10175.6 | 10236.9 | 10543.4 | 10574.0 | 10272.6 | 10109.2 | 10098.9 | 10252.2 | 10405.4 |
| 42.5° | 10686.4 | 10589.3 | 10364.6 | 10405.4 | 10594.4 | 10604.7 | 10318.6 | 10272.6 | 10385.0 | 10533.1 | 10543.4 |
| 45° | 10732.4 | 10650.6 | 10507.6 | 10405.4 | 10543.4 | 10574.0 | 10405.4 | 10436.1 | 10446.3 | 10625.1 | 10625.1 |
| 47.5° | 10824.3 | 10814.1 | 10732.4 | 10655.7 | 10681.3 | 10655.7 | 10548.5 | 10594.4 | 10747.7 | 10834.5 | 10793.7 |
| 50° | 11079.7 | 10972.4 | 11054.2 | 10987.8 | 10992.9 | 11064.4 | 10967.3 | 11013.3 | 10982.7 | 10906.0 | 10855.0 |
| 52.5° | 11641.6 | 11590.5 | 11662.1 | 11708.0 | 11759.1 | 11922.6 | 11810.2 | 11565.0 | 11335.1 | 11130.8 | 11125.7 |
| 55° | 12464.0 | 12499.8 | 12637.7 | 12872.7 | 13071.9 | 13332.4 | 12791.0 | 12203.5 | 11835.7 | 11513.9 | 11534.3 |
| 57.5° | 13240.5 | 13215.0 | 13404.0 | 13940.3 | 14522.7 | 14655.5 | 13593.0 | 12755.2 | 12157.6 | 11953.2 | 11866.4 |
| 59° | 12617.3 | 12739.9 | 13169.0 | 13766.6 | 14681.0 | 14875.1 | 13485.7 | 12305.7 | 11672.3 | 11258.5 | 11330.0 |
| 60° | 11636.5 | 11682.5 | 12065.6 | 12898.2 | 14134.4 | 14466.5 | 12765.4 | 11611.0 | 10768.1 | 10528.0 | 10635.3 |
| 62.5° | 8224.2 | 8188.5 | 8464.3 | 9143.7 | 10252.2 | 10701.7 | 9491.1 | 8678.9 | 8147.6 | 7882.0 | 7943.3 |
| 65° | 4372.6 | 4536.1 | 4648.5 | 5072.5 | 5659.9 | 6135.0 | 5634.4 | 5281.9 | 4985.6 | 4766.0 | 4760.9 |
| 67.5° | 2952.5 | 2932.1 | 2957.7 | 3054.7 | 3253.9 | 3386.7 | 3376.5 | 3197.7 | 3172.2 | 3131.3 | 3177.3 |
| 70° | 2487.7 | 2477.5 | 2431.5 | 2431.5 | 2472.4 | 2503.0 | 2538.8 | 2559.2 | 2600.1 | 2651.2 | 2646.1 |
| 72.5° | 2017.7 | 1992.2 | 1961.6 | 1946.2 | 1997.3 | 2012.6 | 2058.6 | 2079.0 | 2114.8 | 2109.7 | 2155.7 |
| 75° | 1333.2 | 1333.2 | 1369.0 | 1409.9 | 1425.2 | 1455.8 | 1460.9 | 1522.2 | 1522.2 | 1532.5 | 1491.6 |
| 77.5° | 745.8 | 725.4 | 750.9 | 791.8 | 827.5 | 883.7 | 939.9 | 985.9 | 1011.4 | 1001.2 | 1001.2 |
| 80° | 434.2 | 434.2 | 459.7 | 505.7 | 551.7 | 602.8 | 643.6 | 679.4 | 704.9 | 694.7 | 674.3 |
| 82.5° | 270.7 | 270.7 | 296.3 | 342.3 | 378.0 | 408.7 | 464.8 | 510.8 | 541.5 | 531.3 | 505.7 |
| 85° | 137.9 | 137.9 | 168.6 | 199.2 | 245.2 | 265.6 | 260.5 | 240.1 | 235.0 | 209.4 | 209.4 |
| 87.5° | 35.8 | 35.8 | 51.1 | 56.2 | 46.0 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 | 56.2 |
| 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)