

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: P528407

Luminaire Tested: **GALN-SA3C-730-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528407
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-SA3C-730-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 9970 lumens
Efficiency: N/A
Efficacy: 62.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

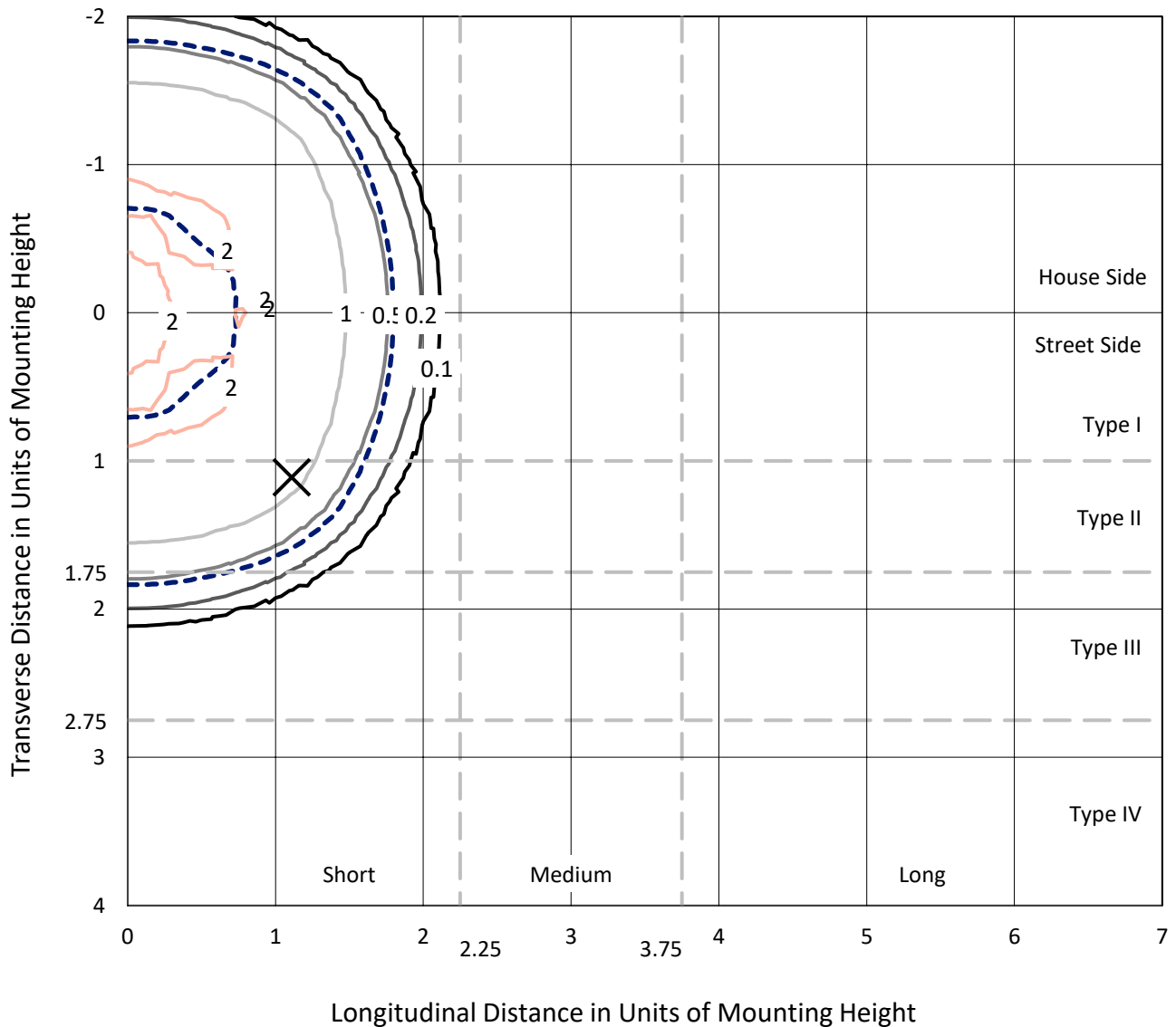
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

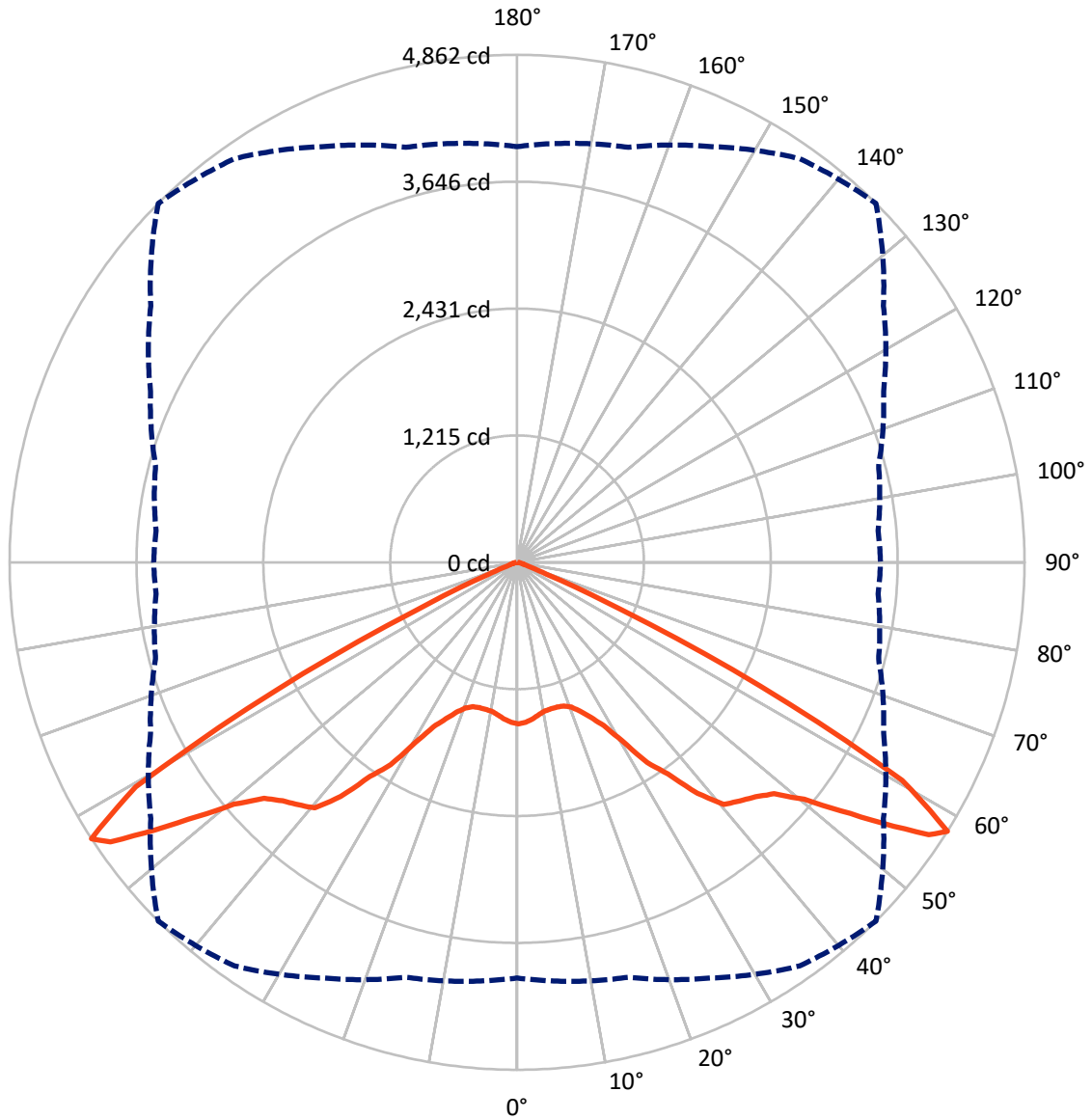
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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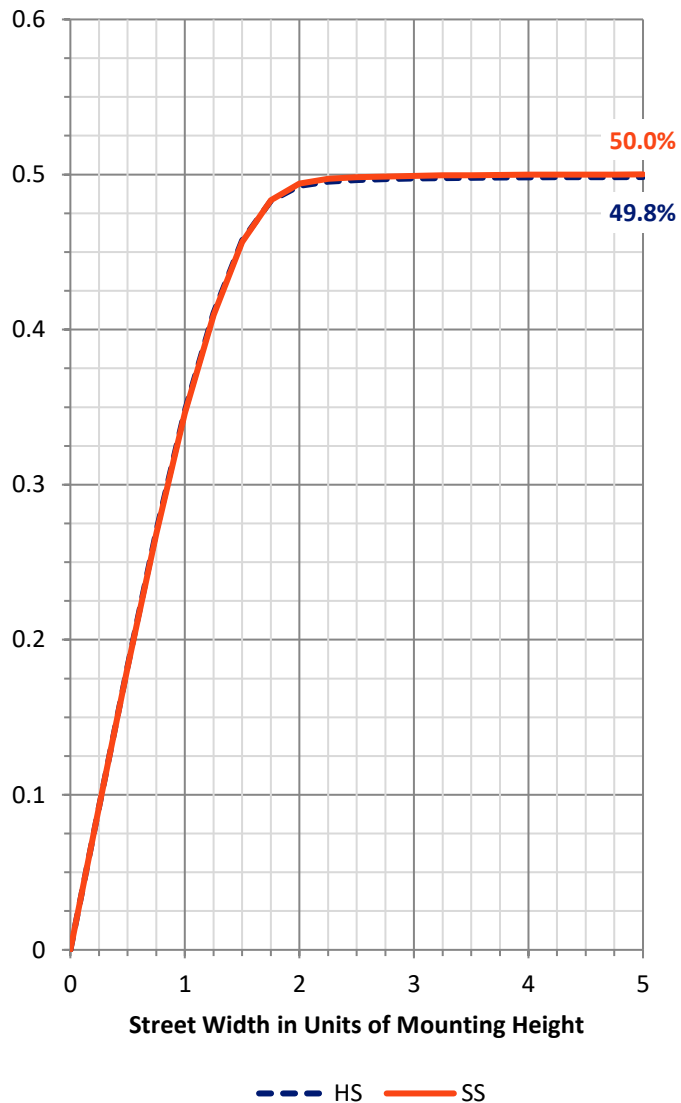
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4985.0 | 0.0 | 4985.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4985.0 | 0.0 | 4985.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 9970.0 | 0.0 | 9970.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 142.1 | 1.4 |
| 10°-20° | 410.8 | 4.1 |
| 20°-30° | 758.2 | 7.6 |
| 30°-40° | 1491.1 | 15.0 |
| 40°-50° | 2428.6 | 24.4 |
| 50°-60° | 3463.5 | 34.7 |
| 60°-70° | 1199.2 | 12.0 |
| 70°-80° | 64.3 | 0.6 |
| 80°-90° | 12.1 | 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° | 9970.0 | 100.0 |
| 0°-180° | 9970.0 | 100.0 |

Coefficient of Utilization



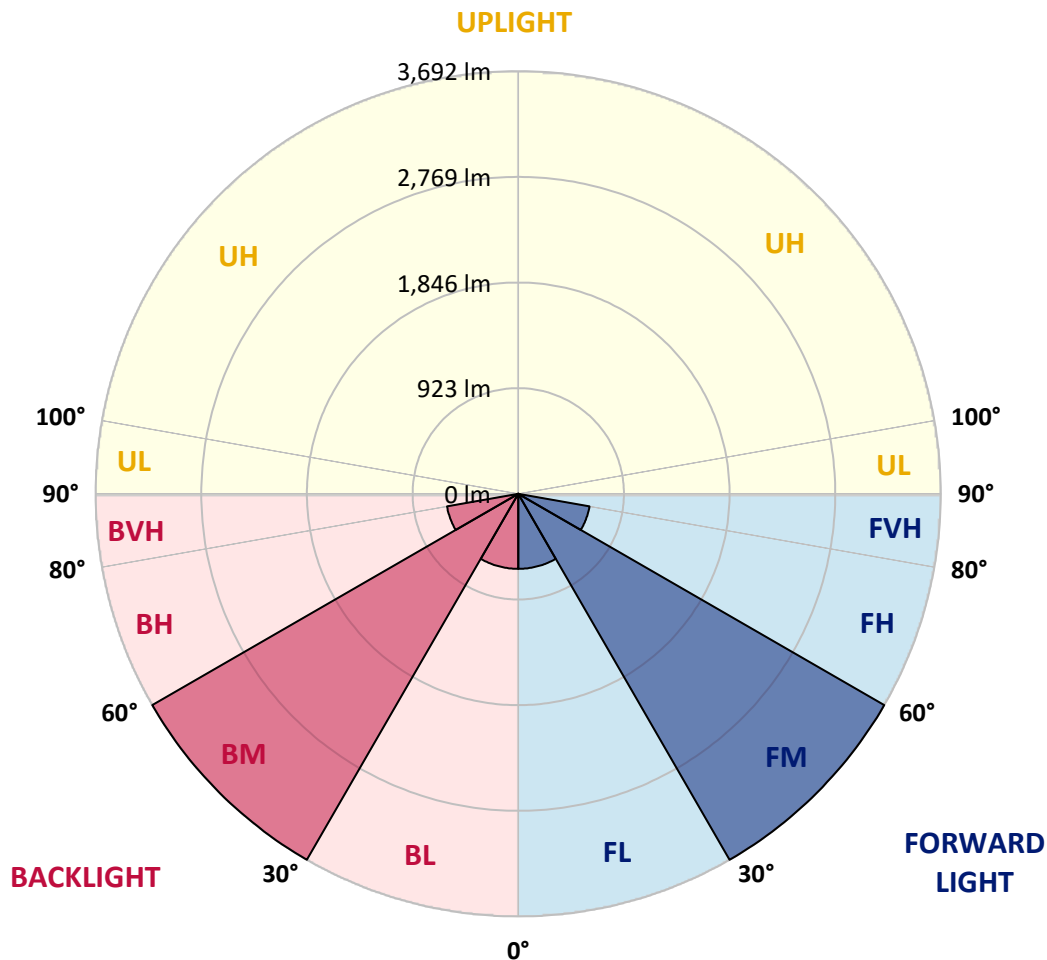
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 655.5 | 6.6 | | | |
| FM (30°-60°) | 3691.7 | 37.0 | | | |
| FH (60°-80°) | 631.7 | 6.3 | | | G0/660 |
| FVH (80°-90°) | 6.0 | 0.1 | | | G0/10 |
| BL (0°-30°) | 655.5 | 6.6 | B2/1000 | | |
| BM (30°-60°) | 3691.7 | 37.0 | B3/5000 | | |
| BH (60°-80°) | 631.7 | 6.3 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 6.0 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1546.5 | 1546.5 | 1546.5 | 1546.5 | 1546.5 | 1546.5 | 1546.5 | 1546.5 | 1546.5 | 1546.5 | 1546.5 |
| 2.5° | 1542.3 | 1550.6 | 1540.2 | 1536.1 | 1534.0 | 1534.0 | 1527.7 | 1527.7 | 1525.7 | 1527.7 | 1519.4 |
| 5° | 1517.4 | 1525.7 | 1525.7 | 1523.6 | 1511.1 | 1509.0 | 1502.8 | 1498.6 | 1500.7 | 1492.4 | 1498.6 |
| 7.5° | 1492.4 | 1498.6 | 1490.3 | 1488.3 | 1484.1 | 1475.8 | 1473.7 | 1455.0 | 1457.1 | 1457.1 | 1461.2 |
| 10° | 1488.3 | 1486.2 | 1473.7 | 1463.3 | 1450.8 | 1448.8 | 1442.5 | 1438.4 | 1438.4 | 1436.3 | 1442.5 |
| 12.5° | 1488.3 | 1477.9 | 1475.8 | 1452.9 | 1432.1 | 1440.4 | 1423.8 | 1413.4 | 1428.0 | 1432.1 | 1440.4 |
| 15° | 1486.2 | 1496.6 | 1461.2 | 1450.8 | 1436.3 | 1438.4 | 1423.8 | 1413.4 | 1421.7 | 1425.9 | 1432.1 |
| 17.5° | 1498.6 | 1492.4 | 1482.0 | 1461.2 | 1455.0 | 1446.7 | 1428.0 | 1419.7 | 1419.7 | 1430.1 | 1432.1 |
| 20° | 1531.9 | 1515.3 | 1494.5 | 1484.1 | 1490.3 | 1479.9 | 1457.1 | 1425.9 | 1434.2 | 1442.5 | 1448.8 |
| 22.5° | 1563.1 | 1550.6 | 1536.1 | 1529.8 | 1565.2 | 1548.5 | 1509.0 | 1473.7 | 1461.2 | 1475.8 | 1486.2 |
| 25° | 1623.4 | 1623.4 | 1596.3 | 1604.7 | 1644.1 | 1646.2 | 1600.5 | 1538.1 | 1529.8 | 1536.1 | 1540.2 |
| 27.5° | 1746.0 | 1752.2 | 1729.4 | 1737.7 | 1754.3 | 1768.9 | 1729.4 | 1677.4 | 1658.7 | 1656.6 | 1662.9 |
| 30° | 1879.0 | 1891.5 | 1889.4 | 1924.8 | 1972.6 | 1980.9 | 1922.7 | 1837.5 | 1781.3 | 1770.9 | 1779.3 |
| 32.5° | 2053.6 | 2059.9 | 2055.7 | 2097.3 | 2226.1 | 2286.4 | 2134.7 | 2014.1 | 1939.3 | 1958.0 | 1939.3 |
| 35° | 2382.0 | 2375.8 | 2330.1 | 2338.4 | 2444.4 | 2488.0 | 2342.5 | 2265.6 | 2230.3 | 2267.7 | 2259.4 |
| 37.5° | 2664.7 | 2641.9 | 2604.4 | 2658.5 | 2768.6 | 2808.1 | 2656.4 | 2521.3 | 2456.9 | 2519.2 | 2546.2 |
| 40° | 2903.8 | 2845.6 | 2793.6 | 2847.6 | 2995.2 | 3049.3 | 2826.8 | 2716.7 | 2691.7 | 2737.5 | 2795.7 |
| 42.5° | 3105.4 | 3068.0 | 2999.4 | 3003.5 | 3101.2 | 3126.2 | 2947.4 | 2883.0 | 2858.0 | 2930.8 | 2959.9 |
| 45° | 3248.8 | 3213.5 | 3149.0 | 3144.9 | 3219.7 | 3203.1 | 3043.0 | 2999.4 | 3013.9 | 3061.7 | 3076.3 |
| 47.5° | 3321.5 | 3340.3 | 3302.8 | 3313.2 | 3352.7 | 3313.2 | 3186.4 | 3186.4 | 3153.2 | 3182.3 | 3167.7 |
| 50° | 3531.5 | 3473.3 | 3521.1 | 3521.1 | 3562.7 | 3566.8 | 3440.0 | 3394.3 | 3304.9 | 3255.0 | 3255.0 |
| 52.5° | 3776.8 | 3780.9 | 3799.6 | 3868.2 | 3938.9 | 3999.2 | 3818.3 | 3622.9 | 3473.3 | 3408.8 | 3400.5 |
| 55° | 3978.4 | 4019.9 | 4094.8 | 4223.6 | 4427.3 | 4510.5 | 4198.7 | 3849.5 | 3666.6 | 3566.8 | 3546.0 |
| 56° | 4088.5 | 4049.0 | 4177.9 | 4354.6 | 4620.6 | 4728.7 | 4261.1 | 3895.2 | 3693.6 | 3581.4 | 3579.3 |
| 57.5° | 3982.5 | 4026.2 | 4115.6 | 4394.1 | 4720.4 | 4861.8 | 4283.9 | 3874.4 | 3585.5 | 3471.2 | 3481.6 |
| 60° | 3144.9 | 3186.4 | 3307.0 | 3618.8 | 4130.1 | 4240.3 | 3625.0 | 3194.8 | 2937.0 | 2772.8 | 2774.9 |
| 62.5° | 1779.3 | 1810.4 | 1904.0 | 2192.9 | 2510.9 | 2616.9 | 2259.4 | 1972.6 | 1793.8 | 1702.3 | 1673.2 |
| 65° | 654.7 | 642.3 | 656.8 | 804.4 | 999.8 | 1089.2 | 939.5 | 794.0 | 700.5 | 667.2 | 654.7 |
| 67.5° | 245.3 | 226.6 | 212.0 | 226.6 | 284.8 | 301.4 | 276.4 | 230.7 | 216.2 | 222.4 | 226.6 |
| 70° | 151.7 | 143.4 | 114.3 | 108.1 | 106.0 | 103.9 | 110.2 | 116.4 | 133.0 | 155.9 | 160.0 |
| 72.5° | 106.0 | 99.8 | 81.1 | 76.9 | 72.7 | 70.7 | 81.1 | 89.4 | 103.9 | 120.6 | 122.6 |
| 75° | 41.6 | 43.6 | 41.6 | 45.7 | 47.8 | 49.9 | 58.2 | 64.4 | 70.7 | 70.7 | 68.6 |
| 77.5° | 8.3 | 8.3 | 12.5 | 16.6 | 20.8 | 27.0 | 39.5 | 45.7 | 47.8 | 45.7 | 39.5 |
| 80° | 0.0 | 0.0 | 4.2 | 8.3 | 16.6 | 22.9 | 35.3 | 39.5 | 43.6 | 39.5 | 31.2 |
| 82.5° | 0.0 | 0.0 | 4.2 | 10.4 | 16.6 | 20.8 | 33.3 | 41.6 | 47.8 | 43.6 | 33.3 |
| 85° | 0.0 | 0.0 | 4.2 | 8.3 | 12.5 | 14.5 | 14.5 | 10.4 | 10.4 | 6.2 | 4.2 |
| 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)