

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: P527813

Luminaire Tested: **GALN-SA2D-760-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-760-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10053 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

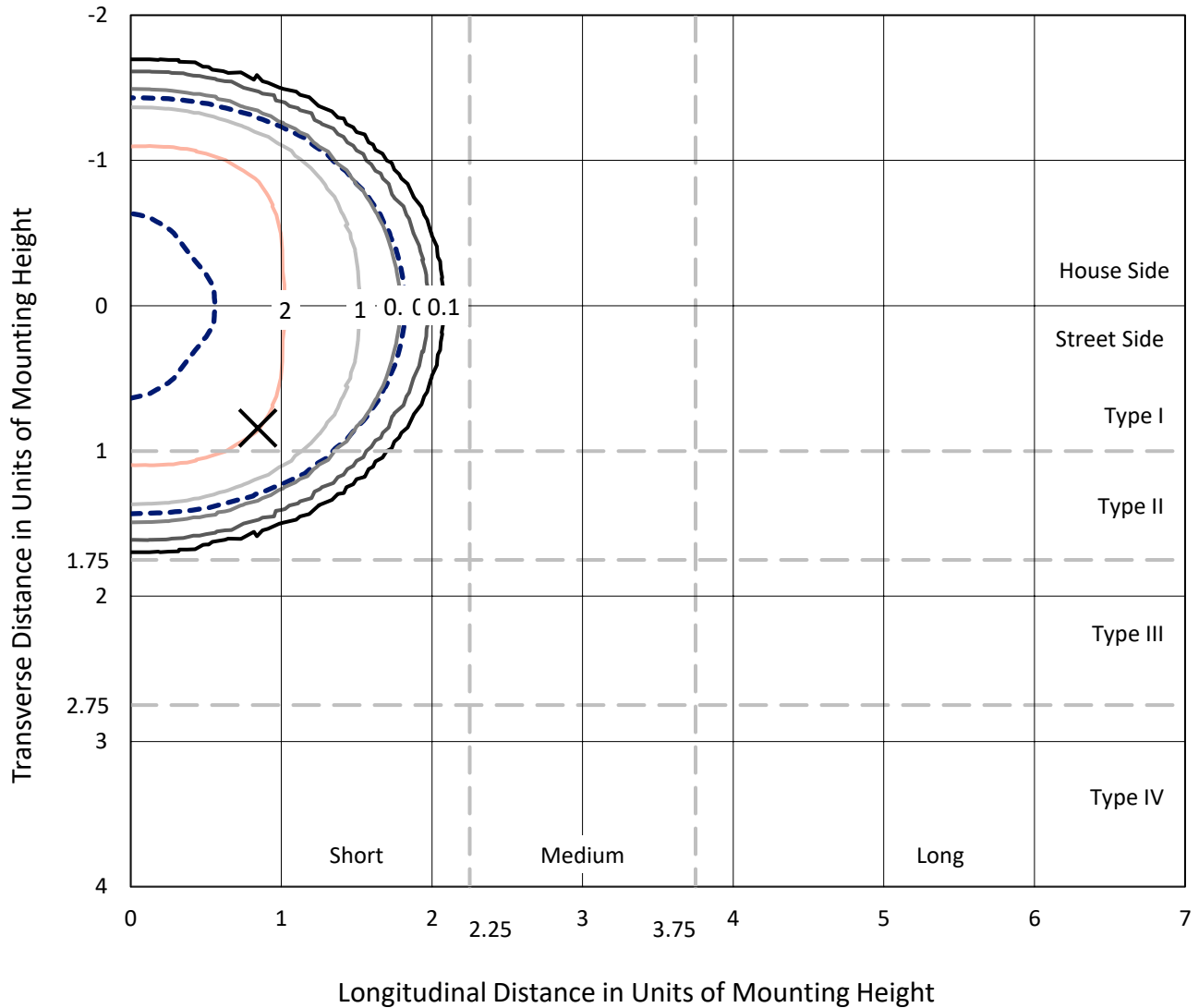
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

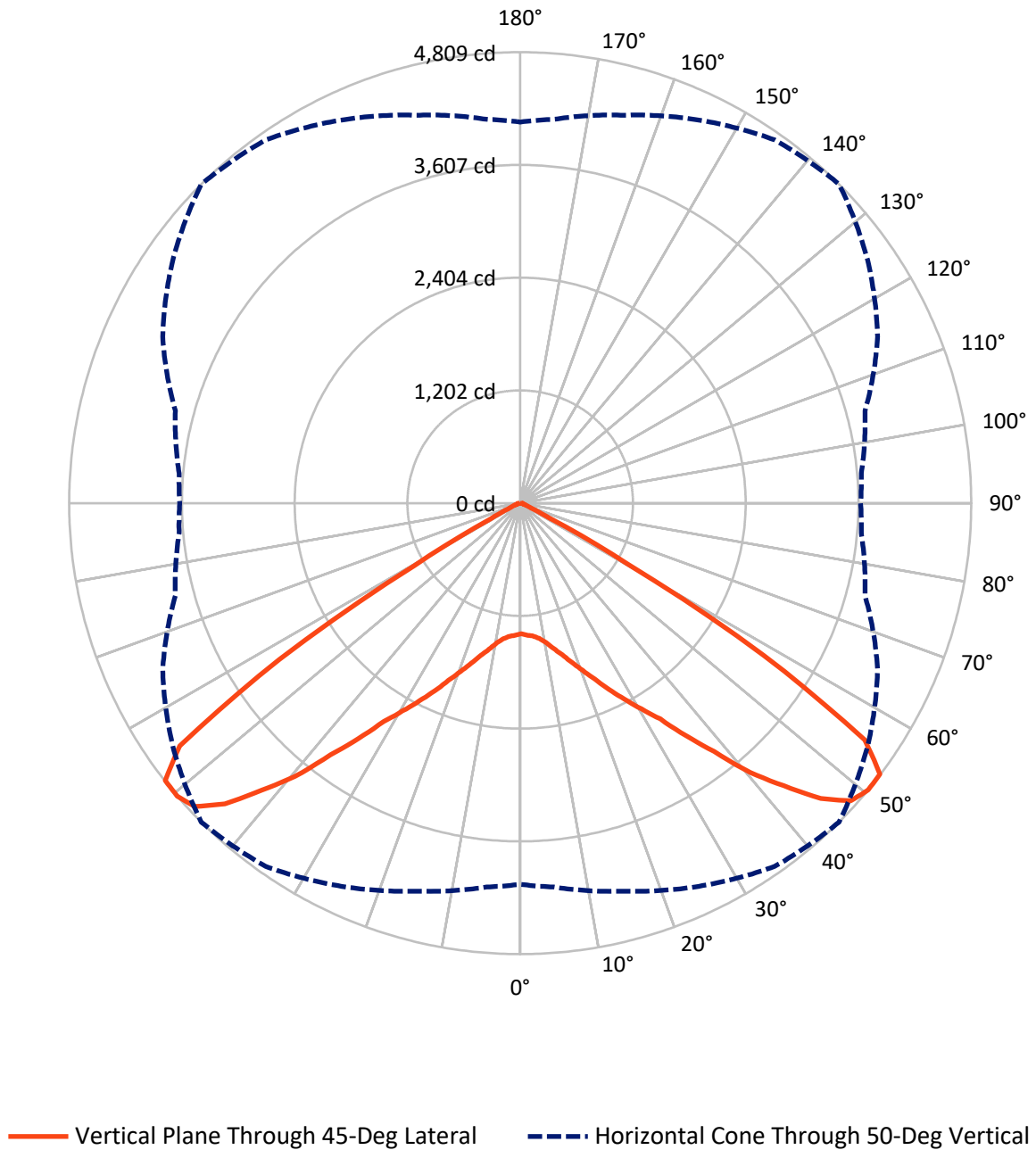
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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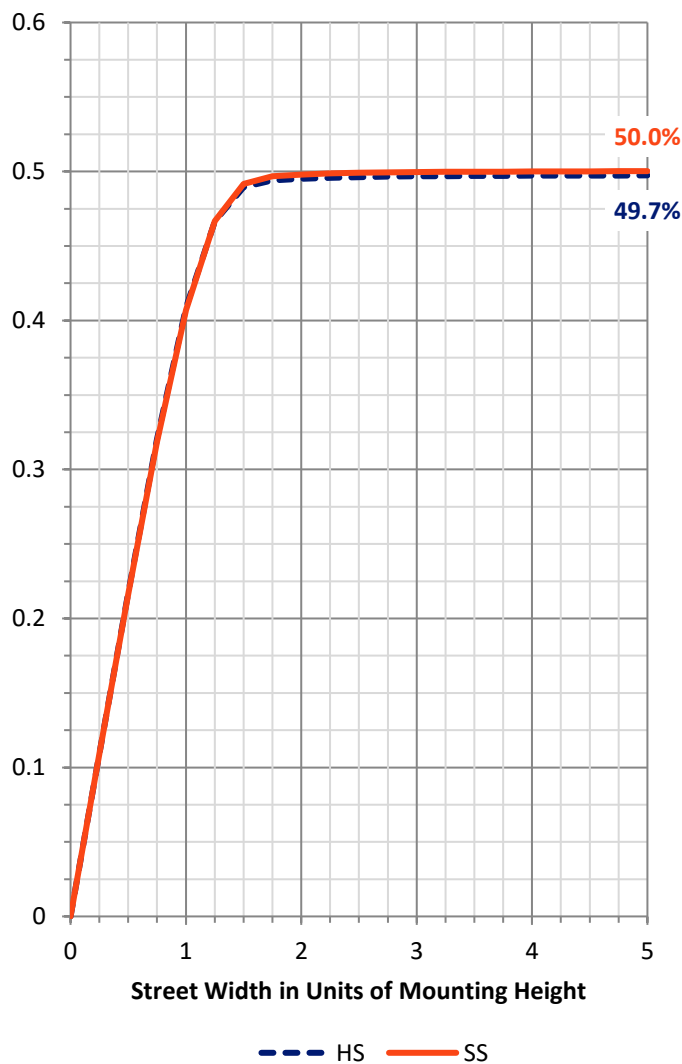
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5026.5 | 0.0 | 5026.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5026.5 | 0.0 | 5026.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 10053.0 | 0.0 | 10053.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 138.7 | 1.4 |
| 10°-20° | 477.9 | 4.8 |
| 20°-30° | 976.0 | 9.7 |
| 30°-40° | 1861.3 | 18.5 |
| 40°-50° | 3136.6 | 31.2 |
| 50°-60° | 2991.3 | 29.8 |
| 60°-70° | 417.6 | 4.2 |
| 70°-80° | 39.9 | 0.4 |
| 80°-90° | 13.8 | 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° | 10053.0 | 100.0 |
| 0°-180° | 10053.0 | 100.0 |

Coefficient of Utilization



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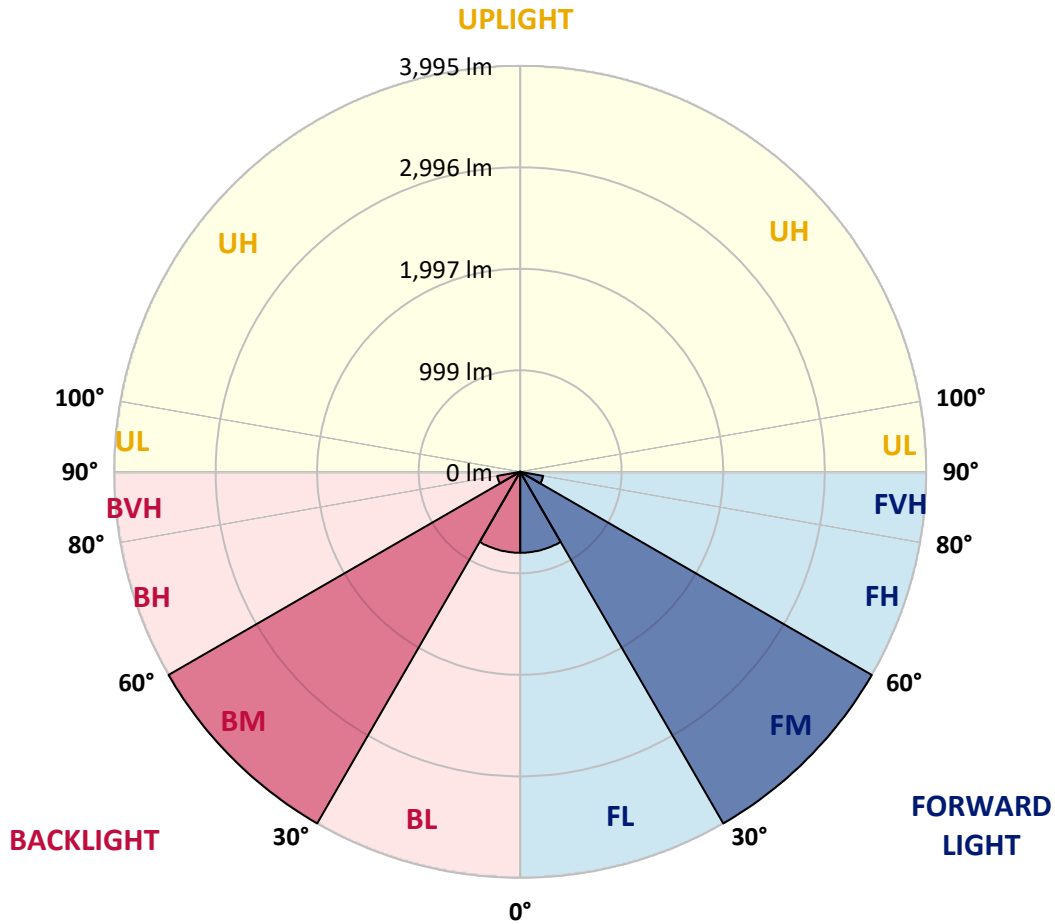
CATALOG NUMBER: GALN-SA2D-760-U-RW-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 796.3 | 7.9 | | | |
| FM (30°-60°) | 3994.6 | 39.7 | | | |
| FH (60°-80°) | 228.7 | 2.3 | | | G0/660 |
| FVH (80°-90°) | 6.9 | 0.1 | | | G0/10 |
| BL (0°-30°) | 796.3 | 7.9 | B2/1000 | | |
| BM (30°-60°) | 3994.6 | 39.7 | B3/5000 | | |
| BH (60°-80°) | 228.7 | 2.3 | B1/500 | | G0/660 |
| BVH (80°-90°) | 6.9 | 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° | 1393.7 | 1393.7 | 1393.7 | 1393.7 | 1393.7 | 1393.7 | 1393.7 | 1393.7 | 1393.7 | 1393.7 | 1393.7 |
| 2.5° | 1388.7 | 1388.7 | 1387.0 | 1400.5 | 1393.7 | 1409.0 | 1407.3 | 1412.3 | 1417.4 | 1415.7 | 1429.3 |
| 5° | 1376.8 | 1375.1 | 1375.1 | 1390.4 | 1405.6 | 1422.5 | 1437.7 | 1447.9 | 1464.8 | 1464.8 | 1481.7 |
| 7.5° | 1388.7 | 1380.2 | 1392.0 | 1398.8 | 1427.6 | 1456.3 | 1481.7 | 1502.0 | 1540.9 | 1554.4 | 1549.3 |
| 10° | 1392.0 | 1402.2 | 1410.7 | 1430.9 | 1466.5 | 1510.4 | 1532.4 | 1583.2 | 1627.2 | 1657.6 | 1664.4 |
| 12.5° | 1414.0 | 1429.3 | 1452.9 | 1502.0 | 1534.1 | 1591.6 | 1622.1 | 1671.1 | 1732.0 | 1765.9 | 1789.5 |
| 15° | 1456.3 | 1461.4 | 1491.8 | 1554.4 | 1623.8 | 1676.2 | 1723.6 | 1759.1 | 1818.3 | 1857.2 | 1858.9 |
| 17.5° | 1510.4 | 1532.4 | 1574.7 | 1633.9 | 1706.7 | 1784.5 | 1821.7 | 1860.6 | 1882.6 | 1935.0 | 1946.8 |
| 20° | 1618.7 | 1622.1 | 1662.7 | 1740.5 | 1831.8 | 1902.9 | 1929.9 | 1950.2 | 1941.8 | 1995.9 | 2006.0 |
| 22.5° | 1720.2 | 1723.6 | 1774.3 | 1879.2 | 1977.3 | 2038.2 | 2050.0 | 2038.2 | 2012.8 | 2051.7 | 2055.1 |
| 25° | 1823.4 | 1853.8 | 1891.0 | 1995.9 | 2117.7 | 2198.9 | 2200.5 | 2168.4 | 2116.0 | 2122.7 | 2139.7 |
| 27.5° | 1984.0 | 2006.0 | 2044.9 | 2141.3 | 2275.0 | 2366.3 | 2351.1 | 2312.2 | 2244.5 | 2249.6 | 2244.5 |
| 30° | 2171.8 | 2192.1 | 2224.2 | 2347.7 | 2445.8 | 2545.6 | 2567.6 | 2530.4 | 2428.9 | 2406.9 | 2432.3 |
| 32.5° | 2398.4 | 2427.2 | 2486.4 | 2599.7 | 2682.6 | 2743.5 | 2758.7 | 2745.2 | 2650.5 | 2642.0 | 2658.9 |
| 35° | 2674.1 | 2713.1 | 2767.2 | 2867.0 | 2934.6 | 3044.6 | 3044.6 | 2998.9 | 2912.6 | 2922.8 | 2921.1 |
| 37.5° | 2965.1 | 3022.6 | 3107.2 | 3208.6 | 3300.0 | 3359.2 | 3340.6 | 3301.7 | 3215.4 | 3193.4 | 3215.4 |
| 40° | 3330.4 | 3359.2 | 3465.7 | 3597.7 | 3709.3 | 3777.0 | 3697.5 | 3612.9 | 3406.5 | 3438.7 | 3497.9 |
| 42.5° | 3663.6 | 3709.3 | 3790.5 | 3936.0 | 4062.8 | 4118.6 | 4023.9 | 3856.5 | 3607.8 | 3582.4 | 3626.4 |
| 45° | 3947.8 | 3996.8 | 4103.4 | 4311.5 | 4445.1 | 4494.1 | 4284.4 | 4013.8 | 3729.6 | 3665.3 | 3683.9 |
| 47.5° | 4137.2 | 4162.6 | 4311.5 | 4509.4 | 4631.1 | 4742.8 | 4441.7 | 4122.0 | 3787.1 | 3665.3 | 3658.6 |
| 50° | 4064.5 | 4108.5 | 4282.7 | 4507.7 | 4729.2 | 4808.7 | 4521.2 | 4204.9 | 3805.7 | 3650.1 | 3629.8 |
| 52.5° | 3609.5 | 3685.6 | 3880.1 | 4182.9 | 4517.8 | 4802.0 | 4631.1 | 4177.8 | 3799.0 | 3665.3 | 3695.8 |
| 55° | 2511.8 | 2513.5 | 2750.3 | 3196.8 | 3788.8 | 4458.6 | 4470.4 | 4208.3 | 3842.9 | 3760.0 | 3761.7 |
| 57.5° | 1009.8 | 1060.5 | 1241.5 | 1689.7 | 2236.1 | 3061.5 | 3640.0 | 3903.8 | 3848.0 | 3827.7 | 3880.1 |
| 60° | 255.4 | 257.1 | 312.9 | 477.0 | 786.5 | 1312.5 | 1906.2 | 2579.4 | 2970.2 | 3103.8 | 3122.4 |
| 62.5° | 130.2 | 131.9 | 145.5 | 169.1 | 214.8 | 351.8 | 625.8 | 992.9 | 1412.3 | 1625.5 | 1681.3 |
| 65° | 106.6 | 106.6 | 115.0 | 126.9 | 128.5 | 135.3 | 162.4 | 231.7 | 336.6 | 382.3 | 387.3 |
| 67.5° | 81.2 | 81.2 | 88.0 | 94.7 | 98.1 | 96.4 | 93.0 | 96.4 | 116.7 | 111.6 | 108.3 |
| 70° | 50.7 | 52.4 | 55.8 | 62.6 | 66.0 | 67.7 | 69.3 | 72.7 | 82.9 | 86.3 | 82.9 |
| 72.5° | 30.4 | 30.4 | 32.1 | 37.2 | 42.3 | 45.7 | 50.7 | 54.1 | 59.2 | 67.7 | 66.0 |
| 75° | 13.5 | 13.5 | 16.9 | 22.0 | 27.1 | 32.1 | 37.2 | 42.3 | 45.7 | 50.7 | 52.4 |
| 77.5° | 3.4 | 5.1 | 8.5 | 15.2 | 20.3 | 27.1 | 33.8 | 38.9 | 42.3 | 42.3 | 40.6 |
| 80° | 1.7 | 1.7 | 6.8 | 11.8 | 22.0 | 28.8 | 37.2 | 40.6 | 45.7 | 42.3 | 37.2 |
| 82.5° | 1.7 | 1.7 | 6.8 | 11.8 | 20.3 | 28.8 | 38.9 | 44.0 | 47.4 | 42.3 | 35.5 |
| 85° | 0.0 | 1.7 | 5.1 | 10.1 | 16.9 | 20.3 | 16.9 | 11.8 | 6.8 | 6.8 | 5.1 |
| 87.5° | 0.0 | 0.0 | 1.7 | 1.7 | 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)