

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: P527892

Luminaire Tested: **GALN-SA3A-722-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-722-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8793 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

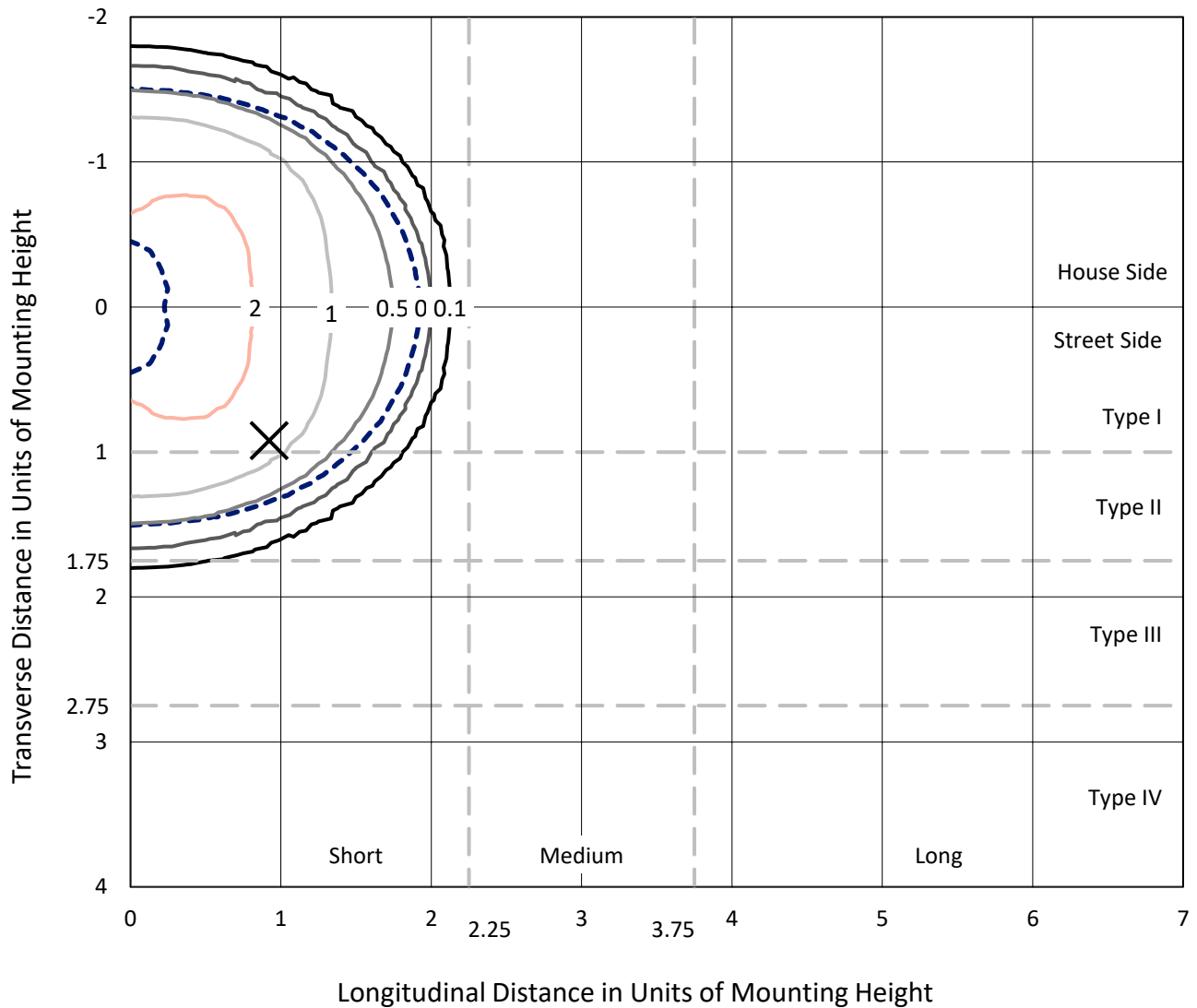
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

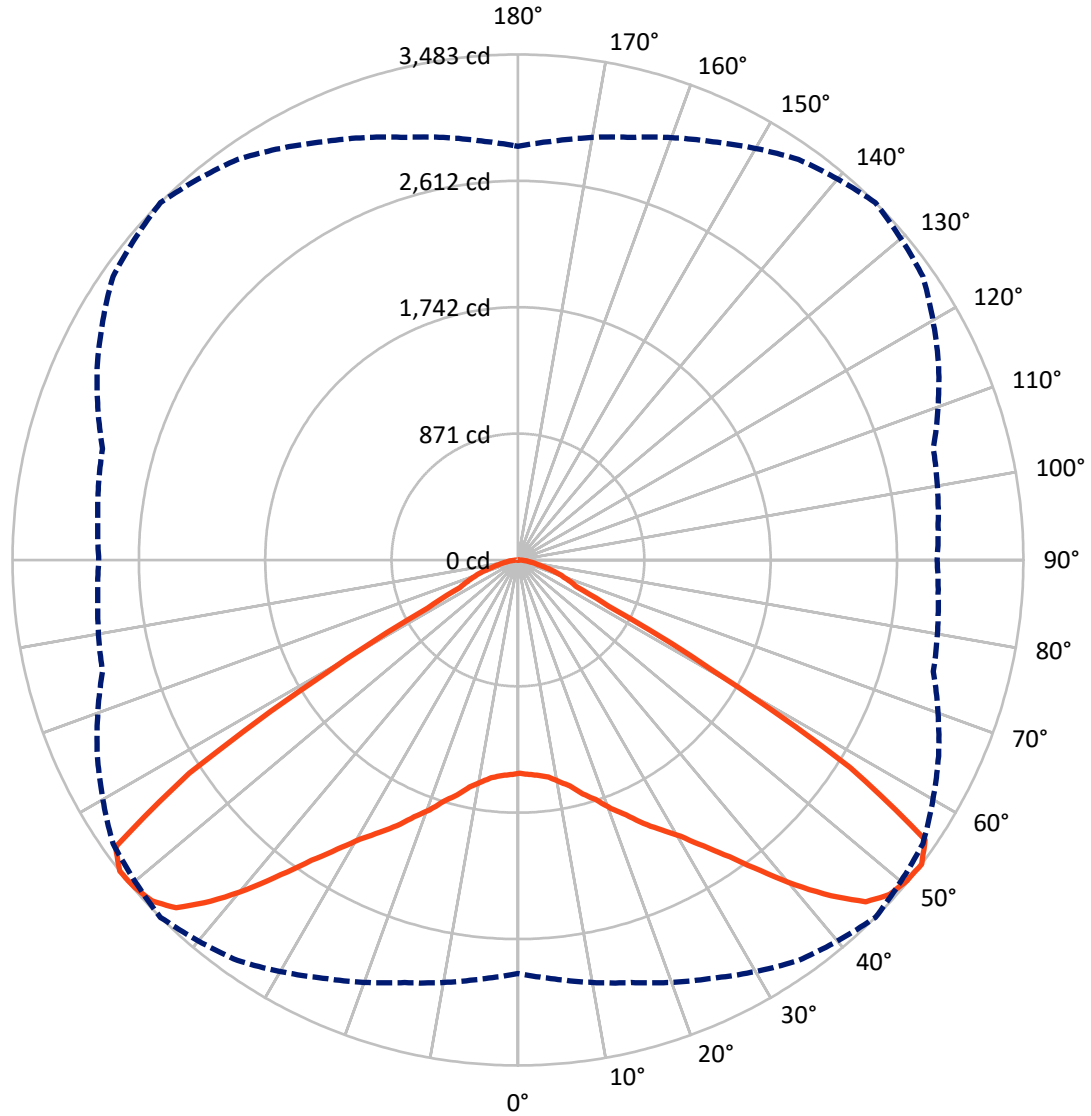
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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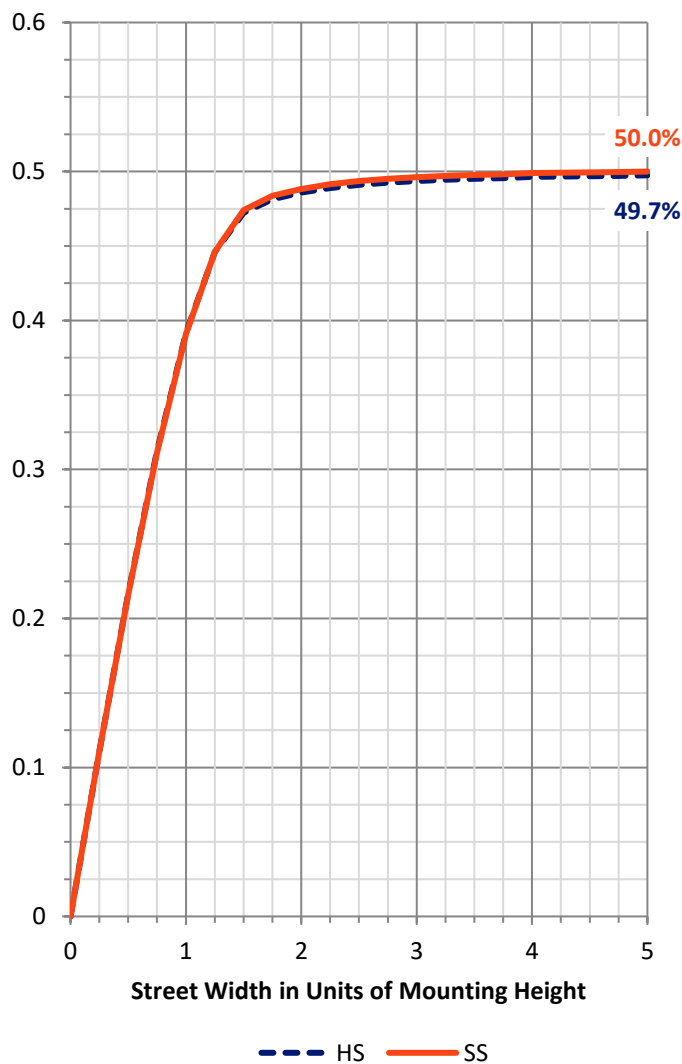
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4396.5 | 0.0 | 4396.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4396.5 | 0.0 | 4396.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 8793.0 | 0.0 | 8793.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 144.4 | 1.6 |
| 10°-20° | 474.5 | 5.4 |
| 20°-30° | 903.4 | 10.3 |
| 30°-40° | 1551.2 | 17.6 |
| 40°-50° | 2384.3 | 27.1 |
| 50°-60° | 2421.2 | 27.5 |
| 60°-70° | 674.8 | 7.7 |
| 70°-80° | 199.0 | 2.3 |
| 80°-90° | 40.1 | 0.5 |
| 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° | 8793.0 | 100.0 |
| 0°-180° | 8793.0 | 100.0 |

Coefficient of Utilization



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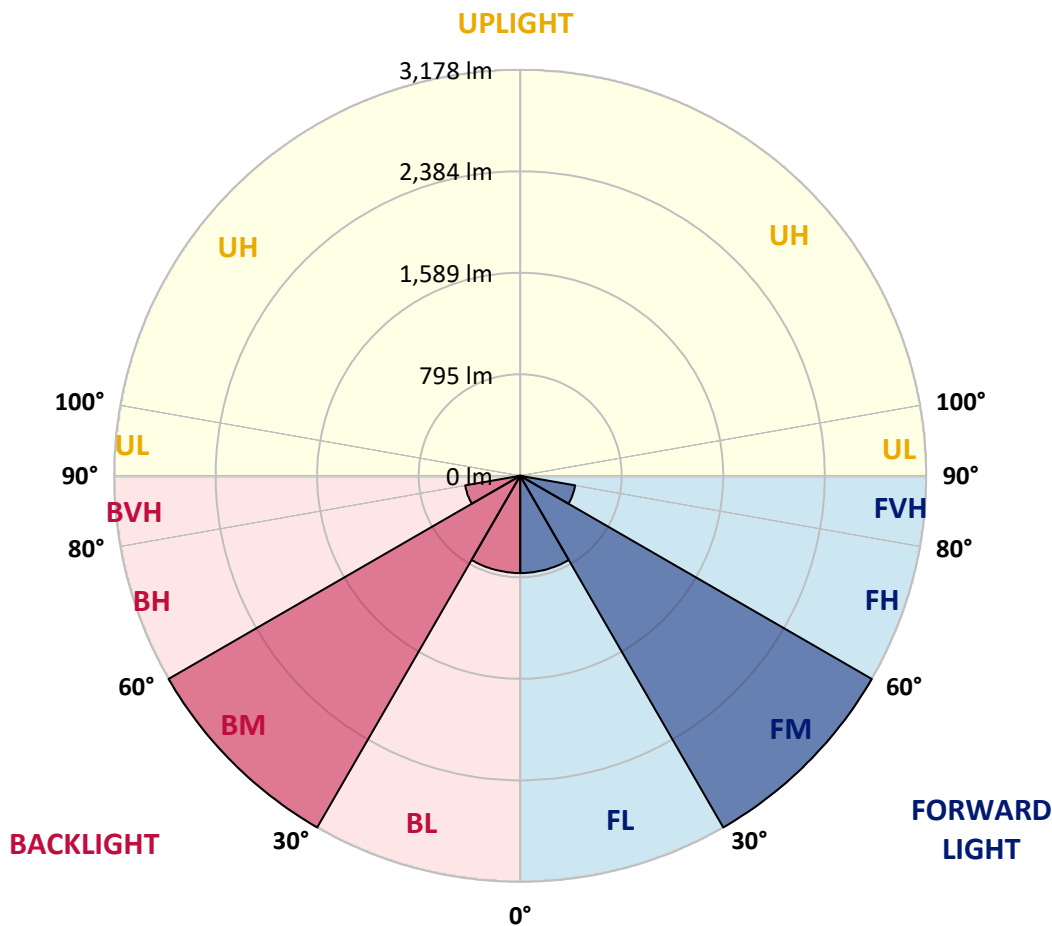
CATALOG NUMBER: GALN-SA3A-722-U-RW-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 761.2 | 8.7 | | | |
| FM (30°-60°) | 3178.4 | 36.1 | | | |
| FH (60°-80°) | 436.9 | 5.0 | | | G0/660 |
| FVH (80°-90°) | 20.0 | 0.2 | | | G1/100 |
| BL (0°-30°) | 761.2 | 8.7 | B2/1000 | | |
| BM (30°-60°) | 3178.4 | 36.1 | B3/5000 | | |
| BH (60°-80°) | 436.9 | 5.0 | B1/500 | | G0/660 |
| BVH (80°-90°) | 20.0 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1469.9 | 1469.9 | 1469.9 | 1469.9 | 1469.9 | 1469.9 | 1469.9 | 1469.9 | 1469.9 | 1469.9 | 1469.9 |
| 2.5° | 1473.1 | 1457.9 | 1463.3 | 1466.6 | 1480.8 | 1479.7 | 1476.4 | 1480.8 | 1485.1 | 1486.2 | 1484.1 |
| 5° | 1472.0 | 1461.1 | 1465.5 | 1468.8 | 1483.0 | 1490.6 | 1488.4 | 1507.0 | 1520.1 | 1516.8 | 1533.2 |
| 7.5° | 1463.3 | 1469.9 | 1464.4 | 1480.8 | 1492.8 | 1511.3 | 1531.0 | 1548.4 | 1564.8 | 1583.4 | 1586.6 |
| 10° | 1483.0 | 1483.0 | 1492.8 | 1505.9 | 1537.5 | 1551.7 | 1580.1 | 1605.2 | 1636.8 | 1658.6 | 1649.9 |
| 12.5° | 1503.7 | 1507.0 | 1507.0 | 1540.8 | 1567.0 | 1598.6 | 1624.8 | 1658.6 | 1703.4 | 1729.6 | 1742.7 |
| 15° | 1524.4 | 1526.6 | 1537.5 | 1583.4 | 1622.6 | 1672.8 | 1696.8 | 1727.4 | 1752.5 | 1801.6 | 1802.7 |
| 17.5° | 1543.0 | 1555.0 | 1587.7 | 1639.0 | 1688.1 | 1736.1 | 1774.3 | 1806.0 | 1827.8 | 1847.4 | 1843.1 |
| 20° | 1612.8 | 1621.5 | 1655.4 | 1706.7 | 1779.8 | 1826.7 | 1839.8 | 1845.2 | 1859.4 | 1898.7 | 1886.7 |
| 22.5° | 1680.5 | 1683.7 | 1715.4 | 1794.0 | 1845.2 | 1907.4 | 1921.6 | 1918.4 | 1923.8 | 1933.6 | 1951.1 |
| 25° | 1750.3 | 1755.8 | 1799.4 | 1866.0 | 1938.0 | 2012.2 | 2024.2 | 1999.1 | 1991.5 | 2002.4 | 2003.5 |
| 27.5° | 1839.8 | 1840.9 | 1896.5 | 1954.4 | 2036.2 | 2106.0 | 2124.6 | 2105.0 | 2068.9 | 2077.7 | 2091.9 |
| 30° | 1953.3 | 1945.6 | 2001.3 | 2084.2 | 2170.4 | 2209.7 | 2241.4 | 2231.5 | 2192.2 | 2184.6 | 2172.6 |
| 32.5° | 2084.2 | 2086.4 | 2136.6 | 2227.2 | 2283.9 | 2349.4 | 2383.2 | 2366.8 | 2341.7 | 2328.7 | 2336.3 |
| 35° | 2268.6 | 2278.5 | 2312.3 | 2387.6 | 2479.2 | 2512.0 | 2565.4 | 2530.5 | 2465.1 | 2481.4 | 2495.6 |
| 37.5° | 2420.3 | 2448.7 | 2512.0 | 2601.5 | 2656.0 | 2716.0 | 2735.7 | 2688.8 | 2640.7 | 2621.1 | 2668.0 |
| 40° | 2652.7 | 2644.0 | 2713.9 | 2803.3 | 2884.1 | 2944.1 | 2919.0 | 2872.1 | 2753.1 | 2754.2 | 2767.3 |
| 42.5° | 2852.4 | 2856.8 | 2910.3 | 3017.2 | 3127.4 | 3164.5 | 3084.9 | 2970.3 | 2838.2 | 2824.1 | 2852.4 |
| 45° | 3020.5 | 3037.9 | 3068.5 | 3211.4 | 3319.5 | 3359.8 | 3212.5 | 3077.2 | 2900.4 | 2841.5 | 2888.4 |
| 47.5° | 3080.5 | 3108.9 | 3175.4 | 3306.4 | 3413.3 | 3446.1 | 3328.2 | 3134.0 | 2958.3 | 2862.3 | 2887.4 |
| 50° | 3089.2 | 3079.4 | 3188.5 | 3308.6 | 3402.4 | 3473.3 | 3369.7 | 3175.4 | 2944.1 | 2893.9 | 2886.3 |
| 52.5° | 2850.3 | 2898.3 | 3015.0 | 3179.8 | 3369.7 | 3483.2 | 3406.8 | 3198.3 | 2963.7 | 2907.0 | 2888.4 |
| 55° | 2306.8 | 2250.1 | 2462.9 | 2740.0 | 3089.2 | 3404.6 | 3393.7 | 3210.4 | 2975.7 | 2928.8 | 2903.7 |
| 57.5° | 1287.6 | 1304.0 | 1424.0 | 1725.2 | 2175.9 | 2699.7 | 3017.2 | 3083.8 | 2970.3 | 2943.0 | 2956.1 |
| 60° | 595.8 | 601.3 | 652.5 | 793.3 | 1072.7 | 1531.0 | 1948.9 | 2373.4 | 2568.7 | 2608.0 | 2608.0 |
| 62.5° | 444.1 | 441.9 | 455.0 | 480.1 | 539.1 | 703.8 | 939.5 | 1276.7 | 1545.2 | 1732.8 | 1782.0 |
| 65° | 401.6 | 400.5 | 407.0 | 415.8 | 420.1 | 443.0 | 495.4 | 599.1 | 686.4 | 736.6 | 727.8 |
| 67.5° | 351.4 | 350.3 | 352.5 | 357.9 | 365.6 | 377.6 | 390.7 | 412.5 | 443.0 | 440.9 | 435.4 |
| 70° | 283.7 | 283.7 | 287.0 | 291.4 | 300.1 | 314.3 | 329.5 | 344.8 | 371.0 | 376.5 | 375.4 |
| 72.5° | 209.5 | 206.2 | 212.8 | 221.5 | 230.2 | 247.7 | 264.1 | 278.3 | 296.8 | 302.3 | 300.1 |
| 75° | 133.1 | 135.3 | 139.7 | 149.5 | 164.8 | 176.8 | 194.2 | 206.2 | 218.2 | 222.6 | 223.7 |
| 77.5° | 74.2 | 76.4 | 84.0 | 96.0 | 111.3 | 124.4 | 139.7 | 149.5 | 157.1 | 158.2 | 159.3 |
| 80° | 44.7 | 45.8 | 53.5 | 64.4 | 77.5 | 91.7 | 103.7 | 113.5 | 120.0 | 116.8 | 115.7 |
| 82.5° | 27.3 | 28.4 | 34.9 | 44.7 | 55.7 | 66.6 | 79.7 | 88.4 | 94.9 | 90.6 | 86.2 |
| 85° | 14.2 | 15.3 | 20.7 | 27.3 | 36.0 | 41.5 | 41.5 | 37.1 | 36.0 | 33.8 | 32.7 |
| 87.5° | 4.4 | 4.4 | 5.5 | 6.5 | 5.5 | 6.5 | 7.6 | 8.7 | 8.7 | 9.8 | 8.7 |
| 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)