

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: STREETWORKS

Report Number: P649238

Luminaire Tested: **GLAN-SA2D-835-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2D-835-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12712 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

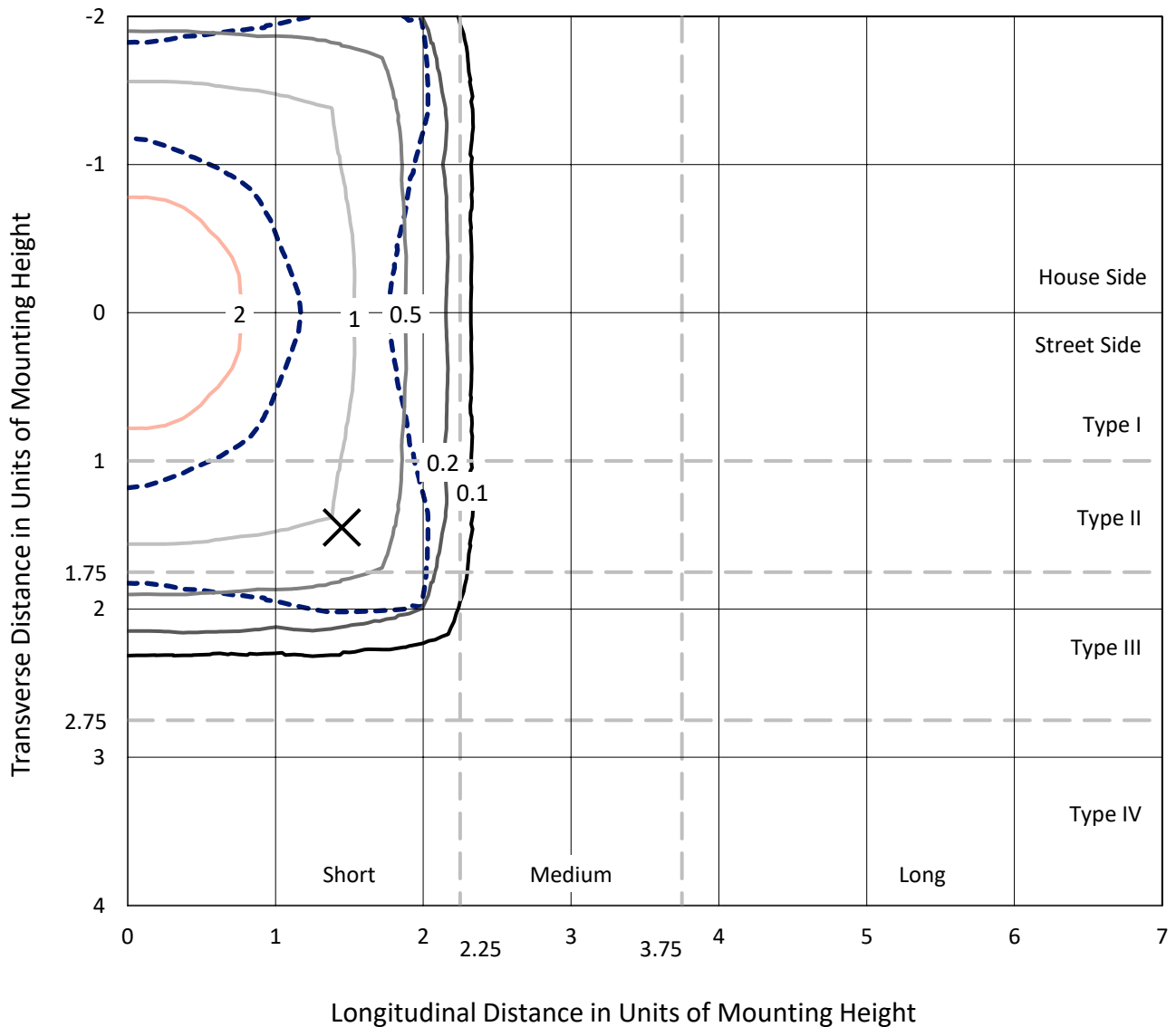
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

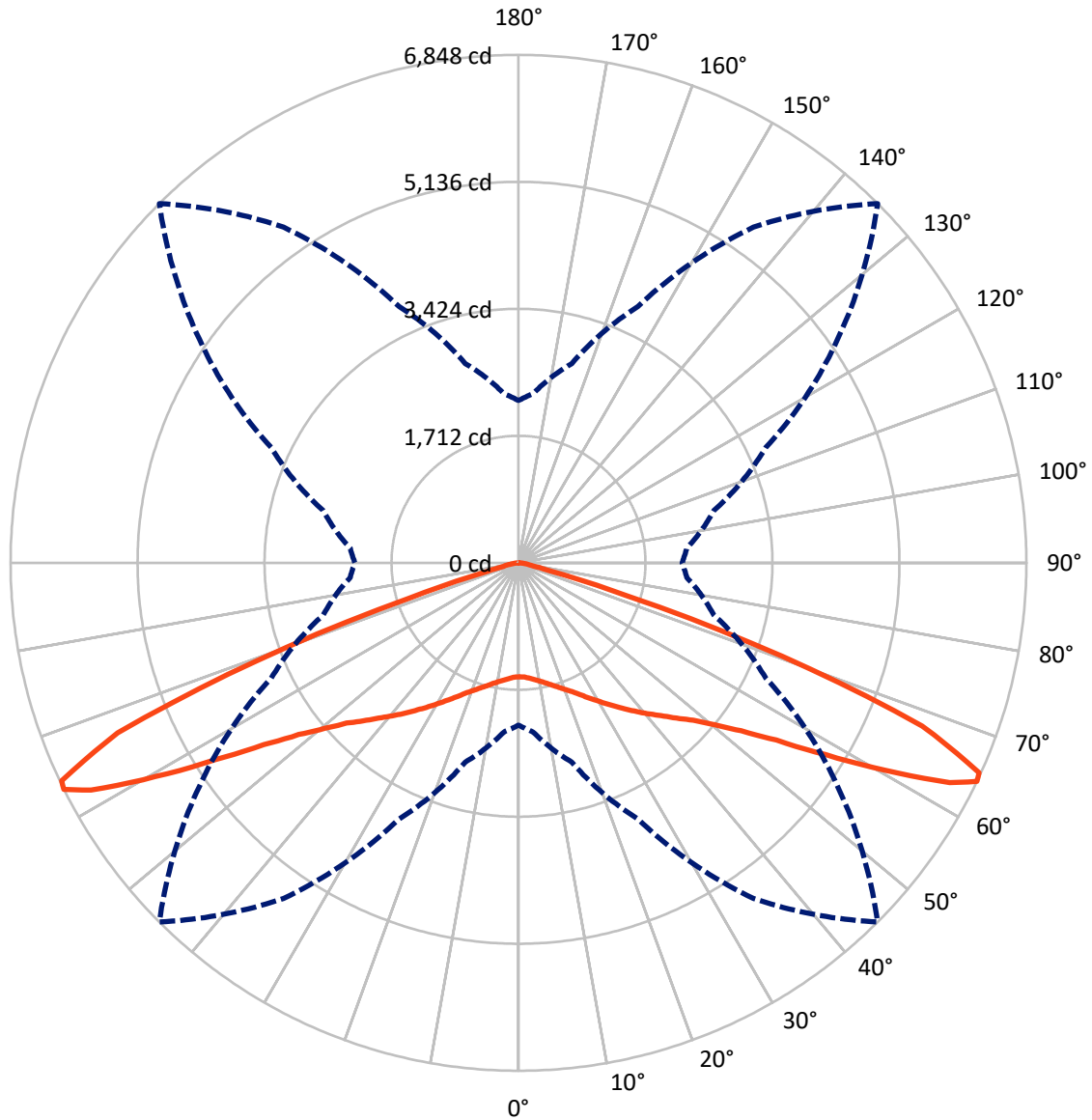
✕ Max cd
 - - - 1/2 Max cd



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 64-Deg Vertical

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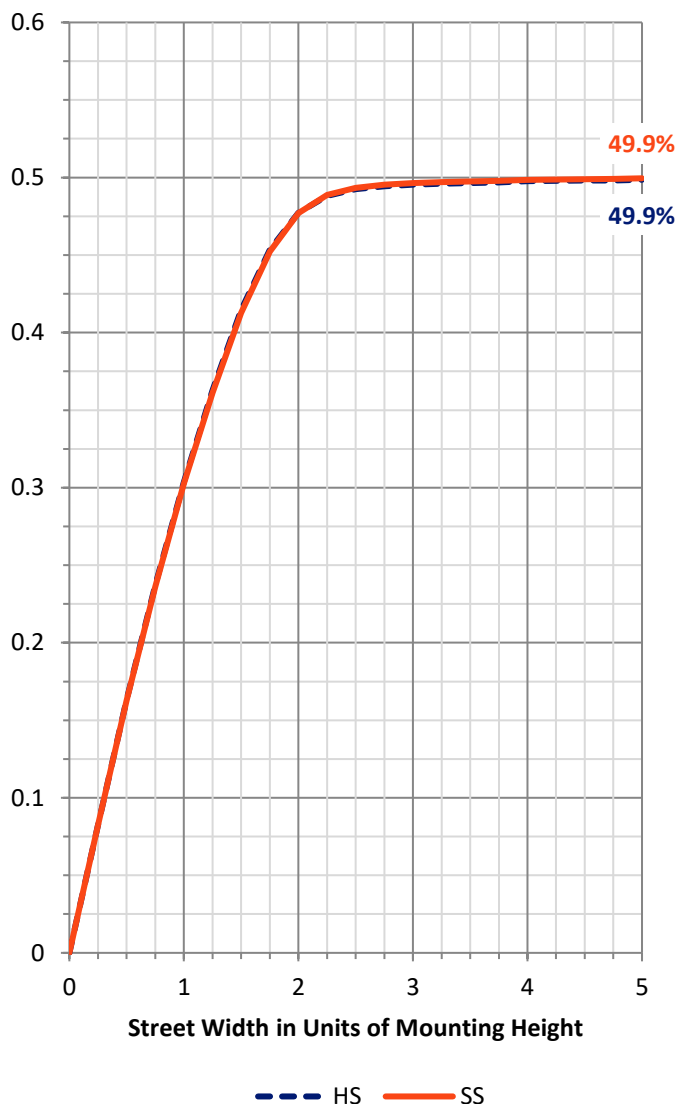
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6356.0 | 0.0 | 6356.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6356.0 | 0.0 | 6356.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 12712.0 | 0.0 | 12712.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 150.9 | 1.2 |
| 10°-20° | 486.9 | 3.8 |
| 20°-30° | 920.1 | 7.2 |
| 30°-40° | 1523.8 | 12.0 |
| 40°-50° | 2378.9 | 18.7 |
| 50°-60° | 3677.7 | 28.9 |
| 60°-70° | 3171.2 | 24.9 |
| 70°-80° | 359.4 | 2.8 |
| 80°-90° | 43.1 | 0.3 |
| 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° | 12712.0 | 100.0 |
| 0°-180° | 12712.0 | 100.0 |

Coefficient of Utilization



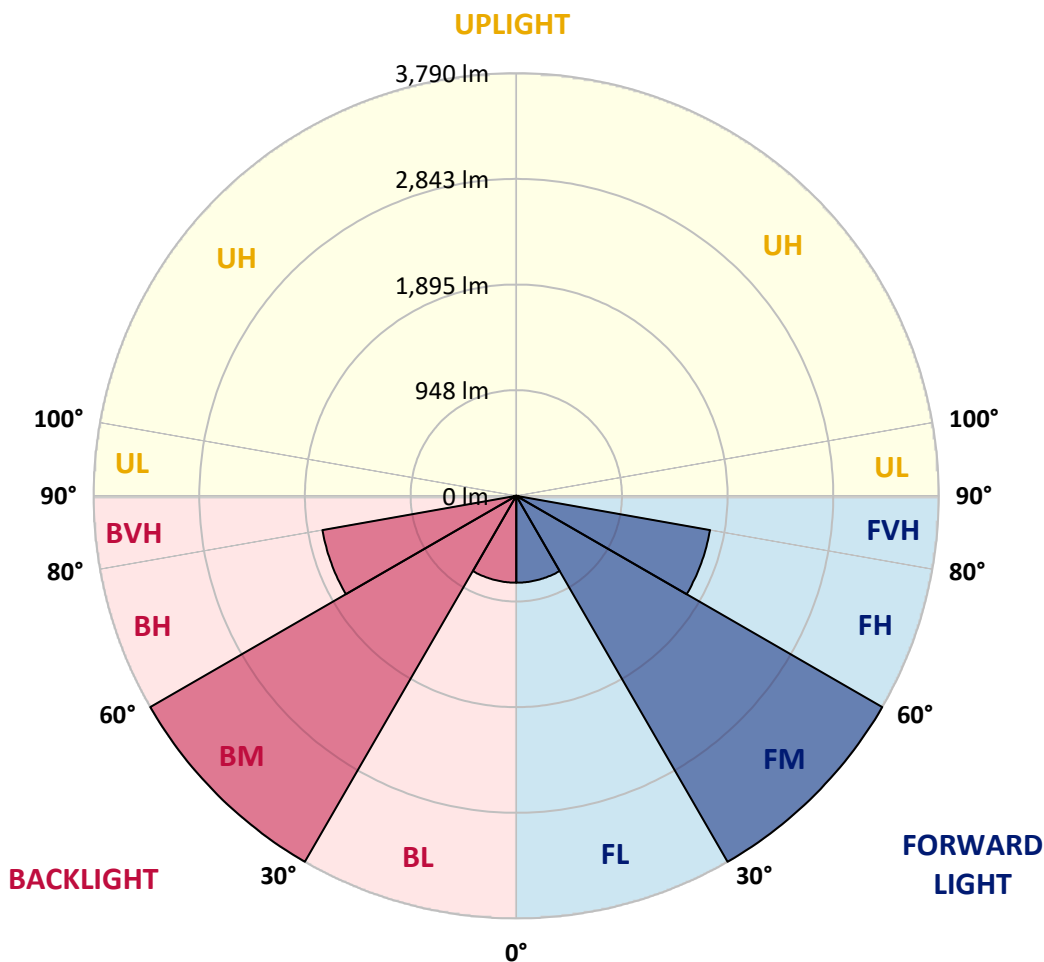
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 779.0 | 6.1 | | | |
| FM (30°-60°) | 3790.2 | 29.8 | | | |
| FH (60°-80°) | 1765.3 | 13.9 | | | G1/1800 |
| FVH (80°-90°) | 21.5 | 0.2 | | | G1/100 |
| BL (0°-30°) | 779.0 | 6.1 | B2/1000 | | |
| BM (30°-60°) | 3790.2 | 29.8 | B3/5000 | | |
| BH (60°-80°) | 1765.3 | 13.9 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 21.5 | 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° | 1536.5 | 1536.5 | 1536.5 | 1536.5 | 1536.5 | 1536.5 | 1536.5 | 1536.5 | 1536.5 | 1536.5 | 1536.5 |
| 2.5° | 1542.5 | 1545.9 | 1543.2 | 1542.5 | 1541.9 | 1541.9 | 1541.9 | 1542.5 | 1545.3 | 1547.2 | 1545.9 |
| 5° | 1562.0 | 1564.7 | 1563.4 | 1562.7 | 1562.0 | 1562.7 | 1561.4 | 1560.7 | 1562.7 | 1562.7 | 1562.0 |
| 7.5° | 1586.3 | 1589.6 | 1588.3 | 1589.6 | 1590.4 | 1591.0 | 1587.6 | 1584.9 | 1584.2 | 1586.3 | 1584.9 |
| 10° | 1619.2 | 1622.0 | 1622.6 | 1623.3 | 1624.6 | 1624.0 | 1619.9 | 1615.3 | 1614.5 | 1613.9 | 1613.2 |
| 12.5° | 1656.3 | 1658.3 | 1659.0 | 1661.7 | 1663.7 | 1664.4 | 1659.6 | 1655.7 | 1648.9 | 1650.3 | 1647.6 |
| 15° | 1698.0 | 1702.1 | 1701.4 | 1705.5 | 1710.9 | 1712.2 | 1707.5 | 1700.8 | 1694.6 | 1691.3 | 1689.3 |
| 17.5° | 1749.2 | 1751.9 | 1750.6 | 1754.6 | 1761.4 | 1764.7 | 1760.7 | 1751.9 | 1745.9 | 1738.4 | 1734.4 |
| 20° | 1809.8 | 1814.5 | 1815.9 | 1815.9 | 1822.0 | 1825.3 | 1819.2 | 1816.6 | 1807.1 | 1801.8 | 1798.4 |
| 22.5° | 1878.5 | 1880.5 | 1884.5 | 1888.6 | 1894.6 | 1893.3 | 1891.3 | 1887.3 | 1878.5 | 1873.8 | 1868.4 |
| 25° | 1955.9 | 1958.0 | 1968.1 | 1976.8 | 1978.8 | 1977.5 | 1974.8 | 1972.8 | 1964.7 | 1953.9 | 1949.8 |
| 27.5° | 2046.1 | 2050.2 | 2063.7 | 2071.7 | 2071.7 | 2072.4 | 2067.0 | 2073.8 | 2056.2 | 2043.5 | 2042.1 |
| 30° | 2159.3 | 2161.9 | 2173.4 | 2181.4 | 2177.4 | 2174.1 | 2172.7 | 2179.5 | 2160.6 | 2137.7 | 2132.3 |
| 32.5° | 2271.0 | 2280.5 | 2290.6 | 2308.0 | 2294.0 | 2287.8 | 2286.5 | 2291.2 | 2269.7 | 2244.1 | 2236.7 |
| 35° | 2390.9 | 2397.6 | 2416.5 | 2431.3 | 2418.5 | 2404.4 | 2410.4 | 2425.2 | 2399.7 | 2365.3 | 2364.0 |
| 37.5° | 2523.5 | 2529.6 | 2553.8 | 2569.3 | 2559.9 | 2535.7 | 2545.8 | 2563.2 | 2537.6 | 2495.3 | 2486.5 |
| 40° | 2661.6 | 2674.3 | 2704.6 | 2720.8 | 2705.3 | 2673.0 | 2691.8 | 2710.7 | 2687.8 | 2638.6 | 2619.1 |
| 42.5° | 2816.4 | 2836.6 | 2880.3 | 2888.4 | 2858.8 | 2815.0 | 2848.0 | 2878.3 | 2862.2 | 2805.6 | 2798.2 |
| 45° | 2997.5 | 3009.6 | 3063.5 | 3081.0 | 3039.9 | 2985.4 | 3026.5 | 3081.7 | 3069.5 | 3004.2 | 2990.1 |
| 47.5° | 3200.2 | 3211.6 | 3267.5 | 3293.8 | 3241.9 | 3168.6 | 3242.6 | 3314.6 | 3307.2 | 3237.2 | 3230.5 |
| 50° | 3439.9 | 3442.5 | 3520.0 | 3549.6 | 3497.7 | 3434.5 | 3500.5 | 3590.0 | 3560.4 | 3470.8 | 3469.5 |
| 52.5° | 3702.4 | 3705.8 | 3803.4 | 3860.7 | 3831.7 | 3760.4 | 3838.4 | 3893.0 | 3817.6 | 3700.5 | 3691.7 |
| 55° | 3930.0 | 3946.9 | 4080.1 | 4232.3 | 4272.0 | 4220.2 | 4243.8 | 4218.2 | 4032.4 | 3868.1 | 3842.5 |
| 57.5° | 4023.0 | 4055.9 | 4258.6 | 4542.7 | 4801.3 | 4878.0 | 4696.2 | 4452.5 | 4117.9 | 3885.6 | 3860.7 |
| 60° | 3796.1 | 3831.7 | 4146.1 | 4685.5 | 5345.3 | 5678.6 | 5167.6 | 4492.2 | 3923.3 | 3596.7 | 3557.7 |
| 62.5° | 3039.9 | 3050.0 | 3512.6 | 4349.5 | 5662.4 | 6525.6 | 5366.1 | 4153.6 | 3357.0 | 2913.4 | 2897.9 |
| 64° | 2187.5 | 2291.2 | 2781.4 | 3813.5 | 5523.8 | 6848.1 | 5251.7 | 3678.8 | 2726.9 | 2277.7 | 2205.0 |
| 65° | 1636.1 | 1664.4 | 2242.0 | 3256.7 | 5279.3 | 6823.8 | 5029.5 | 3225.1 | 2258.3 | 1743.2 | 1662.4 |
| 67.5° | 618.1 | 621.5 | 827.5 | 1623.3 | 3758.3 | 5871.2 | 3838.4 | 1754.6 | 951.3 | 688.1 | 663.2 |
| 70° | 256.5 | 261.2 | 303.6 | 546.1 | 1615.3 | 3769.8 | 1850.9 | 632.9 | 348.1 | 282.1 | 278.0 |
| 72.5° | 187.8 | 190.5 | 203.3 | 242.4 | 496.9 | 1547.9 | 608.6 | 268.6 | 204.0 | 182.4 | 180.5 |
| 75° | 147.4 | 148.8 | 158.2 | 178.4 | 231.6 | 428.9 | 253.1 | 184.5 | 155.5 | 140.1 | 138.7 |
| 77.5° | 112.4 | 115.8 | 122.5 | 136.0 | 155.5 | 203.3 | 167.6 | 138.0 | 119.9 | 107.0 | 105.0 |
| 80° | 77.4 | 81.4 | 94.3 | 99.7 | 104.4 | 131.9 | 114.5 | 104.4 | 93.6 | 78.1 | 73.4 |
| 82.5° | 47.8 | 50.5 | 63.3 | 68.0 | 66.0 | 74.1 | 73.4 | 74.7 | 66.6 | 48.5 | 45.1 |
| 85° | 24.9 | 26.2 | 34.4 | 35.7 | 33.0 | 30.3 | 37.7 | 43.8 | 41.1 | 27.6 | 26.9 |
| 87.5° | 5.4 | 6.0 | 7.4 | 6.7 | 7.4 | 7.4 | 9.4 | 14.2 | 14.8 | 9.4 | 8.8 |
| 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)