

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: P382939

Luminaire Tested: **GLEON-SA3A-735-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3A-735-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13547.5 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

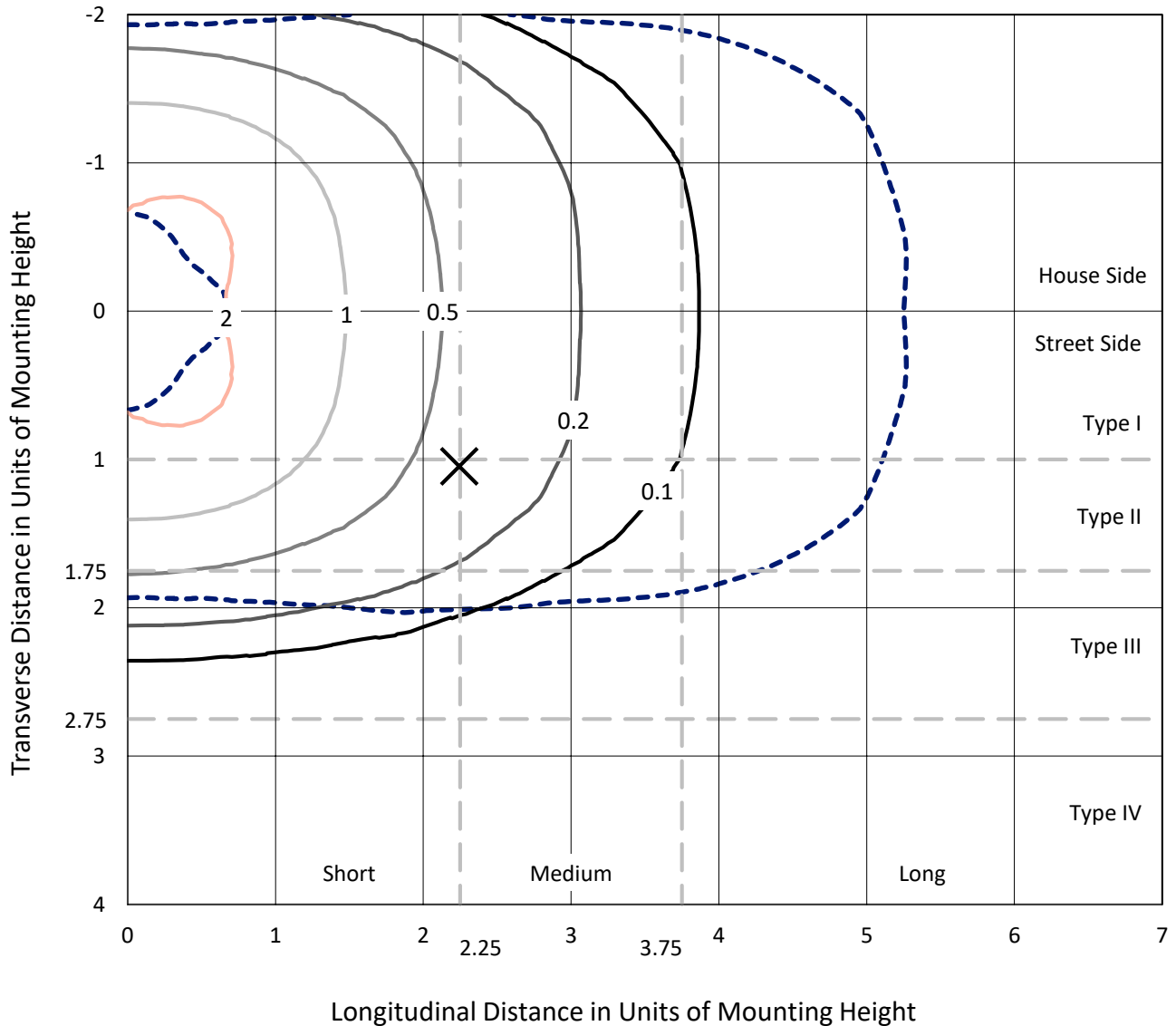
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

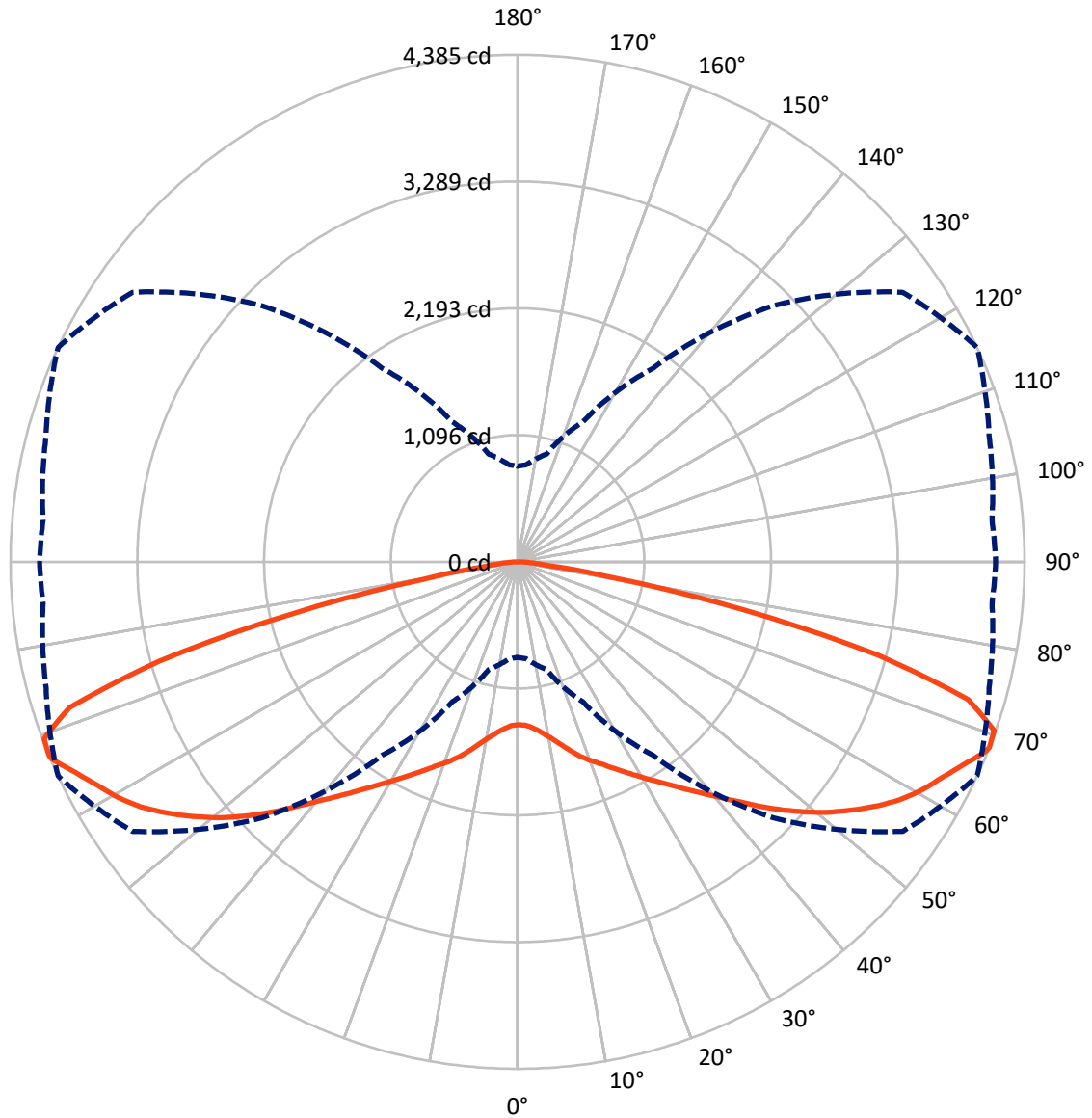
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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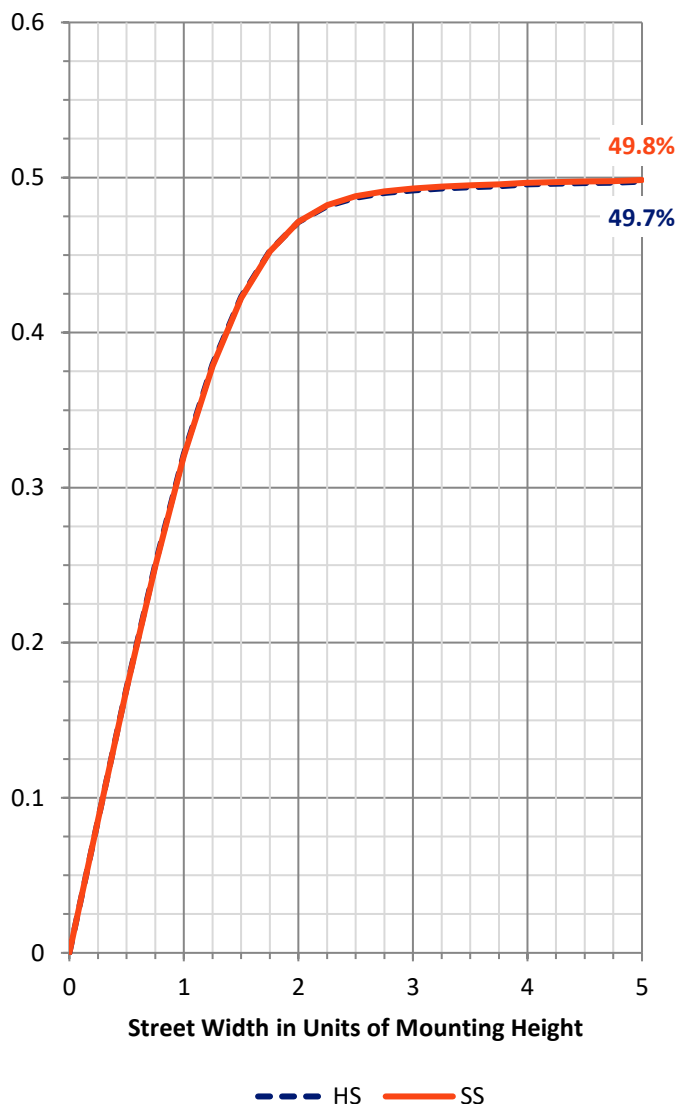
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6773.8 | 0.0 | 6773.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6773.8 | 0.0 | 6773.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 13547.5 | 0.0 | 13547.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 137.9 | 1.0 |
| 10°-20° | 461.8 | 3.4 |
| 20°-30° | 900.4 | 6.6 |
| 30°-40° | 1512.6 | 11.2 |
| 40°-50° | 2383.3 | 17.6 |
| 50°-60° | 3187.2 | 23.5 |
| 60°-70° | 3098.4 | 22.9 |
| 70°-80° | 1693.7 | 12.5 |
| 80°-90° | 172.3 | 1.3 |
| 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° | 13547.5 | 100.0 |
| 0°-180° | 13547.5 | 100.0 |

Coefficient of Utilization



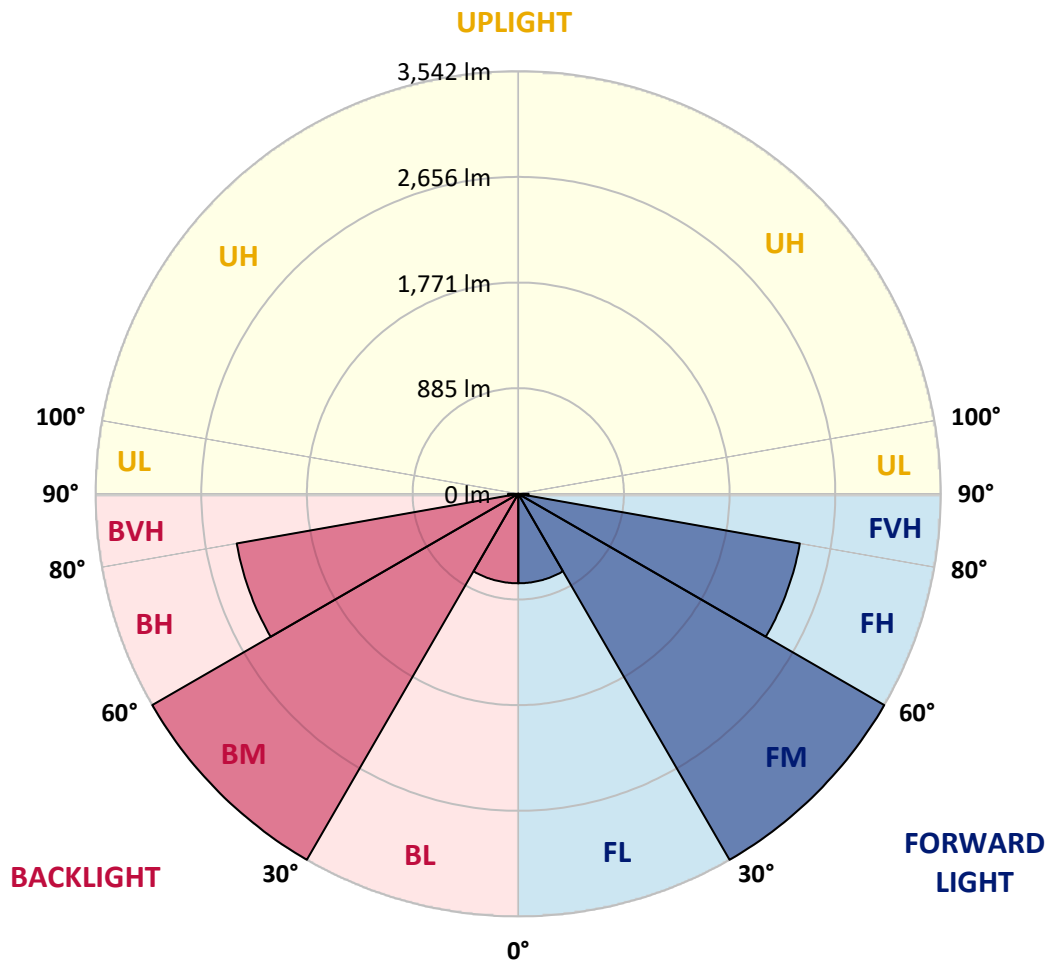
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 750.0 | 5.5 | | | |
| FM (30°-60°) | 3541.5 | 26.1 | | | |
| FH (60°-80°) | 2396.1 | 17.7 | | | G2/5000 |
| FVH (80°-90°) | 86.1 | 0.6 | | | G1/100 |
| BL (0°-30°) | 750.0 | 5.5 | B2/1000 | | |
| BM (30°-60°) | 3541.5 | 26.1 | B3/5000 | | |
| BH (60°-80°) | 2396.1 | 17.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 86.1 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1408.6 | 1408.6 | 1408.6 | 1408.6 | 1408.6 | 1408.6 | 1408.6 | 1408.6 | 1408.6 | 1408.6 | 1408.6 |
| 2.5° | 1398.6 | 1399.1 | 1401.3 | 1404.1 | 1406.4 | 1412.2 | 1413.6 | 1415.9 | 1416.8 | 1419.0 | 1419.0 |
| 5° | 1386.3 | 1387.3 | 1392.8 | 1400.0 | 1408.1 | 1422.7 | 1433.2 | 1444.9 | 1450.9 | 1457.2 | 1456.8 |
| 7.5° | 1385.0 | 1387.3 | 1395.0 | 1406.8 | 1420.4 | 1444.6 | 1466.3 | 1489.9 | 1505.8 | 1520.4 | 1519.4 |
| 10° | 1399.1 | 1402.7 | 1413.6 | 1431.3 | 1451.8 | 1481.7 | 1514.0 | 1545.8 | 1573.5 | 1595.7 | 1596.7 |
| 12.5° | 1420.4 | 1425.0 | 1442.2 | 1469.1 | 1499.9 | 1538.5 | 1576.7 | 1612.6 | 1650.7 | 1683.9 | 1686.7 |
| 15° | 1448.6 | 1454.5 | 1480.4 | 1520.4 | 1567.6 | 1613.4 | 1654.3 | 1691.1 | 1735.2 | 1781.1 | 1785.7 |
| 17.5° | 1490.4 | 1498.6 | 1532.7 | 1586.7 | 1648.9 | 1699.3 | 1742.0 | 1769.8 | 1806.6 | 1853.8 | 1862.4 |
| 20° | 1554.0 | 1564.4 | 1607.6 | 1672.1 | 1748.0 | 1800.7 | 1833.4 | 1839.2 | 1857.4 | 1899.7 | 1909.7 |
| 22.5° | 1636.6 | 1645.8 | 1693.9 | 1770.7 | 1855.6 | 1912.8 | 1930.1 | 1906.5 | 1904.6 | 1938.7 | 1948.2 |
| 25° | 1728.9 | 1737.1 | 1792.9 | 1879.2 | 1970.5 | 2033.7 | 2033.2 | 1987.4 | 1955.5 | 1981.9 | 1991.8 |
| 27.5° | 1832.4 | 1845.1 | 1898.8 | 1989.6 | 2087.2 | 2149.5 | 2145.8 | 2075.0 | 2014.6 | 2021.4 | 2030.0 |
| 30° | 1951.4 | 1965.6 | 2017.7 | 2110.0 | 2207.7 | 2268.5 | 2263.9 | 2170.4 | 2079.6 | 2061.3 | 2067.8 |
| 32.5° | 2099.1 | 2115.9 | 2165.4 | 2256.2 | 2342.6 | 2397.5 | 2384.4 | 2274.0 | 2157.7 | 2118.2 | 2124.0 |
| 35° | 2276.7 | 2286.7 | 2338.9 | 2428.5 | 2498.3 | 2536.0 | 2508.4 | 2393.9 | 2256.7 | 2209.0 | 2209.0 |
| 37.5° | 2456.6 | 2464.3 | 2522.9 | 2609.6 | 2677.4 | 2697.3 | 2643.3 | 2525.1 | 2386.2 | 2318.4 | 2319.8 |
| 40° | 2629.2 | 2650.1 | 2715.9 | 2805.0 | 2871.8 | 2877.2 | 2805.4 | 2675.0 | 2530.2 | 2460.2 | 2468.4 |
| 42.5° | 2809.5 | 2829.9 | 2908.6 | 3009.4 | 3068.4 | 3077.6 | 2993.5 | 2843.2 | 2692.7 | 2636.0 | 2645.0 |
| 45° | 2970.3 | 2986.6 | 3077.6 | 3194.7 | 3268.3 | 3291.9 | 3192.4 | 3035.7 | 2868.6 | 2813.2 | 2815.4 |
| 47.5° | 3082.5 | 3103.9 | 3203.8 | 3341.9 | 3449.1 | 3485.5 | 3387.8 | 3223.3 | 3041.6 | 2974.4 | 2980.3 |
| 50° | 3184.3 | 3195.7 | 3296.9 | 3447.8 | 3584.0 | 3658.9 | 3575.4 | 3408.6 | 3216.5 | 3145.2 | 3151.6 |
| 52.5° | 3241.0 | 3255.6 | 3353.7 | 3510.9 | 3672.2 | 3793.0 | 3742.1 | 3575.4 | 3385.5 | 3316.0 | 3323.8 |
| 55° | 3201.5 | 3212.4 | 3330.1 | 3525.0 | 3726.7 | 3875.6 | 3883.3 | 3738.5 | 3551.3 | 3490.4 | 3512.2 |
| 57.5° | 3021.7 | 3035.3 | 3178.8 | 3434.2 | 3733.5 | 3931.5 | 3989.6 | 3889.7 | 3706.2 | 3656.7 | 3669.4 |
| 60° | 2740.5 | 2749.1 | 2902.1 | 3189.2 | 3600.8 | 3954.7 | 4057.4 | 4013.3 | 3857.9 | 3808.4 | 3825.7 |
| 62.5° | 2239.4 | 2252.2 | 2435.3 | 2820.0 | 3320.5 | 3886.0 | 4122.8 | 4115.5 | 3999.2 | 3953.8 | 3969.2 |
| 65° | 1530.8 | 1553.1 | 1755.7 | 2242.1 | 2888.5 | 3676.3 | 4182.3 | 4234.5 | 4124.1 | 4066.9 | 4087.4 |
| 67.5° | 924.4 | 940.8 | 1087.5 | 1480.4 | 2210.4 | 3252.9 | 4120.9 | 4369.9 | 4212.3 | 4120.0 | 4136.8 |
| 68° | 826.3 | 841.3 | 963.9 | 1335.9 | 2044.6 | 3133.4 | 4065.1 | 4385.3 | 4221.8 | 4119.1 | 4134.1 |
| 70° | 499.2 | 509.2 | 591.4 | 825.8 | 1363.2 | 2485.6 | 3684.0 | 4372.6 | 4282.6 | 4131.9 | 4140.4 |
| 72.5° | 325.2 | 328.5 | 342.1 | 423.9 | 696.3 | 1390.0 | 2765.0 | 4074.6 | 4374.0 | 4205.8 | 4204.5 |
| 75° | 270.2 | 268.5 | 269.9 | 279.4 | 343.4 | 609.6 | 1615.8 | 3218.8 | 4169.5 | 4089.1 | 4060.5 |
| 77.5° | 228.5 | 227.1 | 226.6 | 227.1 | 229.8 | 294.4 | 701.4 | 2005.1 | 3190.6 | 3617.2 | 3642.6 |
| 80° | 184.9 | 183.0 | 189.0 | 186.2 | 178.0 | 183.0 | 293.9 | 834.0 | 1504.0 | 1618.0 | 1516.3 |
| 82.5° | 134.4 | 127.6 | 153.1 | 145.8 | 139.0 | 129.0 | 162.2 | 269.4 | 358.8 | 246.2 | 173.1 |
| 85° | 103.6 | 96.3 | 116.3 | 111.8 | 95.4 | 65.9 | 96.3 | 131.7 | 145.3 | 83.1 | 65.4 |
| 87.5° | 42.2 | 44.5 | 84.0 | 66.3 | 55.9 | 31.8 | 39.5 | 52.7 | 70.9 | 35.4 | 27.3 |
| 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)