

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: P531839

Luminaire Tested: **GLAN-SA7A-830-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531839
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: STREETWORKS
Catalog Number: GLAN-SA7A-830-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA 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: 13203 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

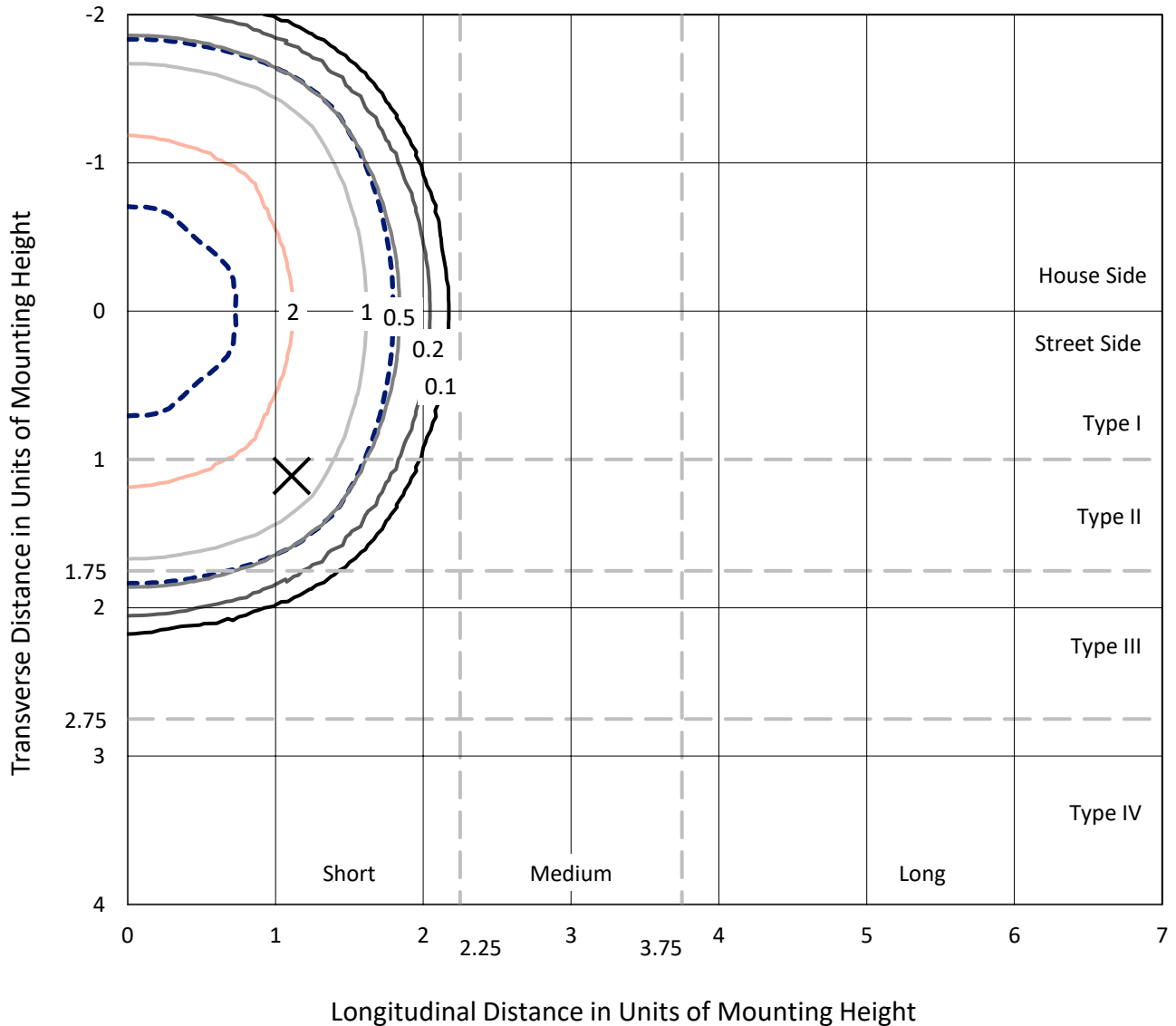
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

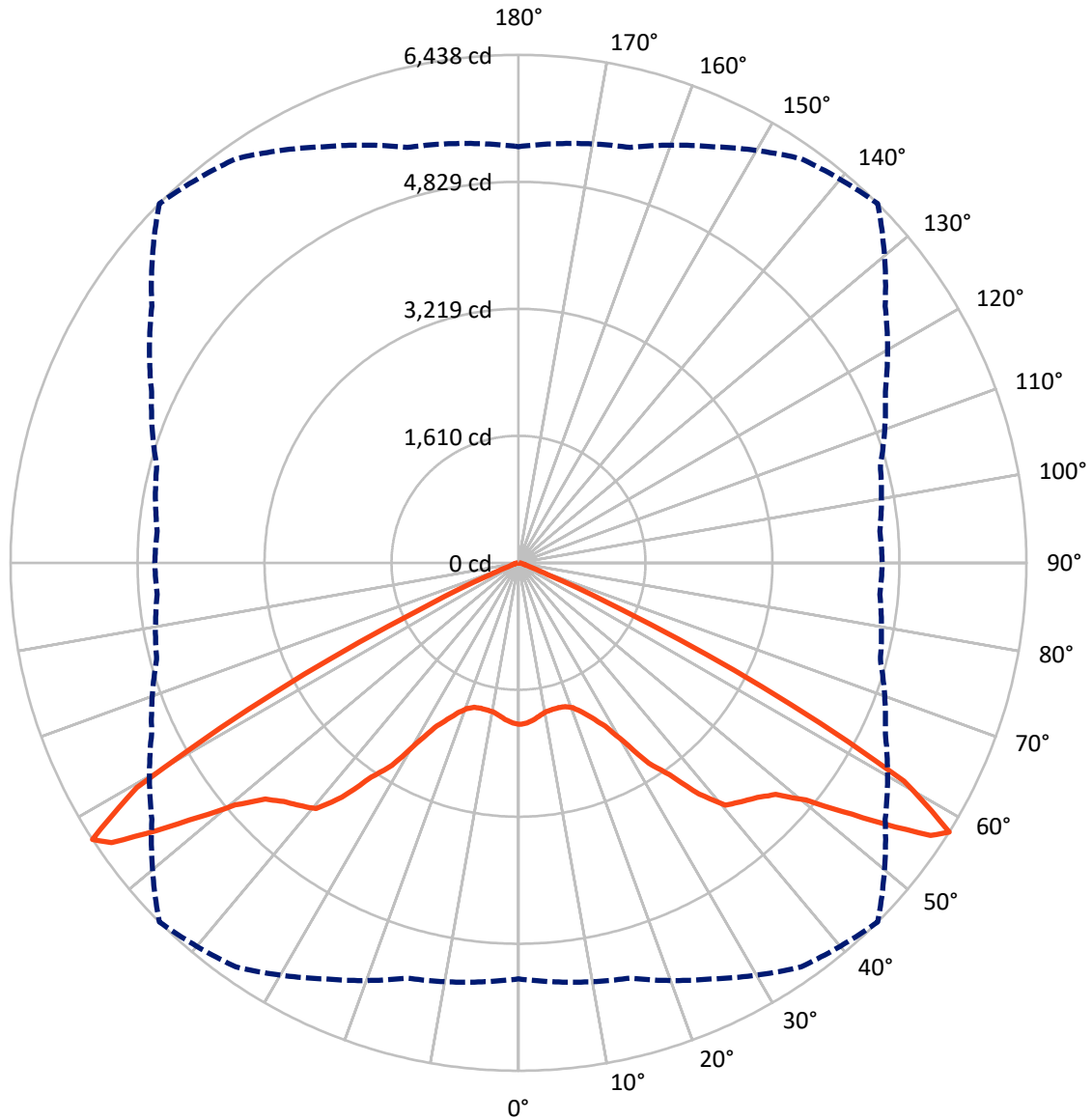
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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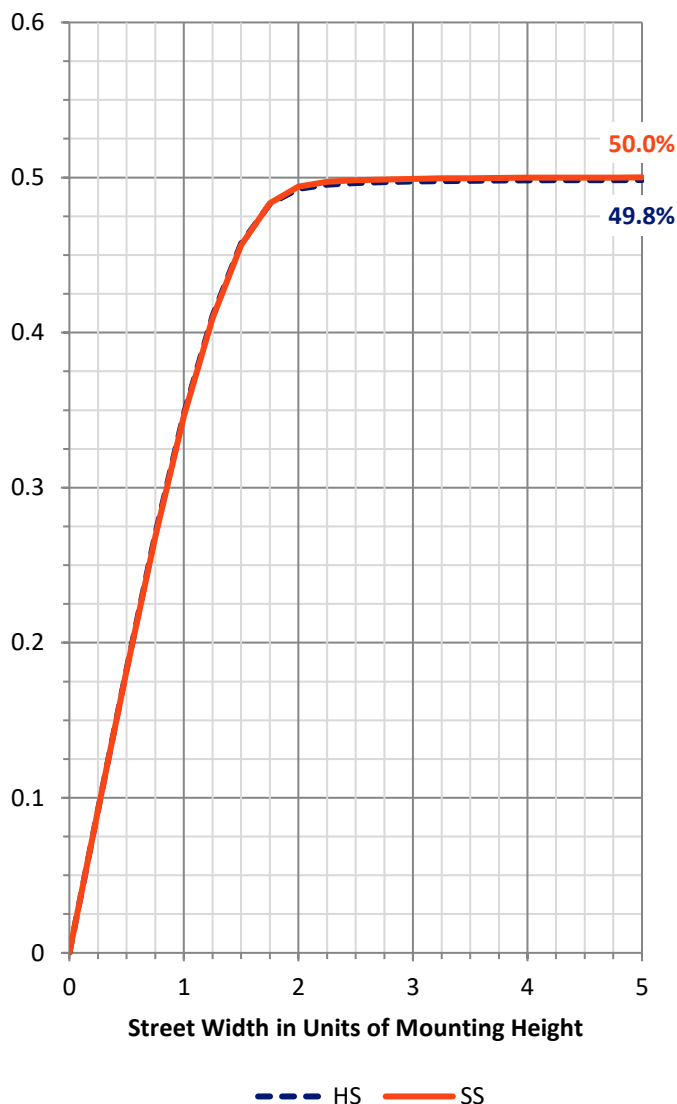
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6601.5 | 0.0 | 6601.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6601.5 | 0.0 | 6601.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 13203.0 | 0.0 | 13203.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 188.2 | 1.4 |
| 10°-20° | 544.0 | 4.1 |
| 20°-30° | 1004.1 | 7.6 |
| 30°-40° | 1974.7 | 15.0 |
| 40°-50° | 3216.2 | 24.4 |
| 50°-60° | 4586.7 | 34.7 |
| 60°-70° | 1588.0 | 12.0 |
| 70°-80° | 85.2 | 0.6 |
| 80°-90° | 16.0 | 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° | 13203.0 | 100.0 |
| 0°-180° | 13203.0 | 100.0 |

Coefficient of Utilization



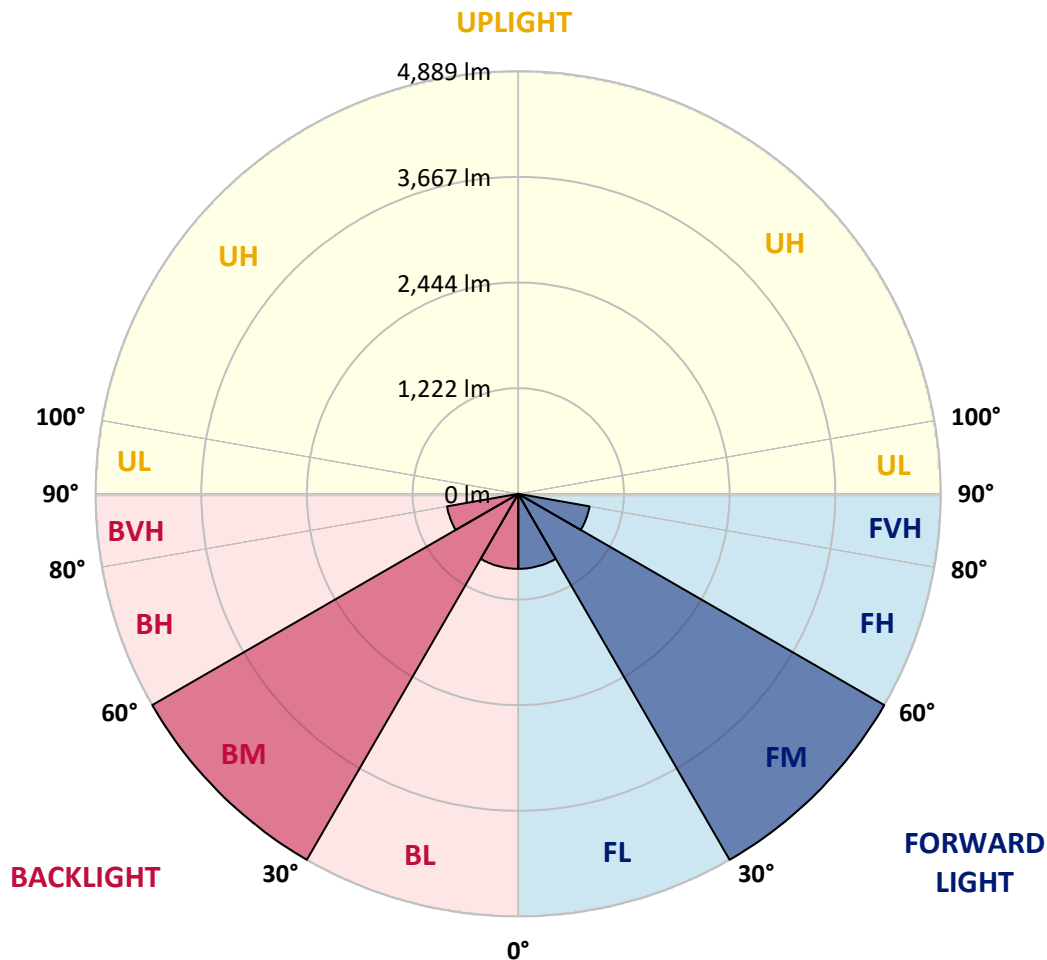
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 868.1 | 6.6 | | | |
| FM (30°-60°) | 4888.8 | 37.0 | | | |
| FH (60°-80°) | 836.6 | 6.3 | | | G1/1800 |
| FVH (80°-90°) | 8.0 | 0.1 | | | G0/10 |
| BL (0°-30°) | 868.1 | 6.6 | B2/1000 | | |
| BM (30°-60°) | 4888.8 | 37.0 | B3/5000 | | |
| BH (60°-80°) | 836.6 | 6.3 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 8.0 | 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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2047.9 | 2047.9 | 2047.9 | 2047.9 | 2047.9 | 2047.9 | 2047.9 | 2047.9 | 2047.9 | 2047.9 | 2047.9 |
| 2.5° | 2042.4 | 2053.4 | 2039.7 | 2034.2 | 2031.4 | 2031.4 | 2023.2 | 2023.2 | 2020.4 | 2023.2 | 2012.1 |
| 5° | 2009.4 | 2020.4 | 2020.4 | 2017.6 | 2001.1 | 1998.4 | 1990.1 | 1984.6 | 1987.4 | 1976.4 | 1984.6 |
| 7.5° | 1976.4 | 1984.6 | 1973.6 | 1970.9 | 1965.3 | 1954.3 | 1951.6 | 1926.8 | 1929.6 | 1929.6 | 1935.1 |
| 10° | 1970.9 | 1968.1 | 1951.6 | 1937.8 | 1921.3 | 1918.6 | 1910.3 | 1904.8 | 1904.8 | 1902.0 | 1910.3 |
| 12.5° | 1970.9 | 1957.1 | 1954.3 | 1924.1 | 1896.5 | 1907.5 | 1885.5 | 1871.8 | 1891.0 | 1896.5 | 1907.5 |
| 15° | 1968.1 | 1981.9 | 1935.1 | 1921.3 | 1902.0 | 1904.8 | 1885.5 | 1871.8 | 1882.8 | 1888.3 | 1896.5 |
| 17.5° | 1984.6 | 1976.4 | 1962.6 | 1935.1 | 1926.8 | 1915.8 | 1891.0 | 1880.0 | 1880.0 | 1893.8 | 1896.5 |
| 20° | 2028.7 | 2006.6 | 1979.1 | 1965.3 | 1973.6 | 1959.8 | 1929.6 | 1888.3 | 1899.3 | 1910.3 | 1918.6 |
| 22.5° | 2069.9 | 2053.4 | 2034.2 | 2025.9 | 2072.7 | 2050.7 | 1998.4 | 1951.6 | 1935.1 | 1954.3 | 1968.1 |
| 25° | 2149.8 | 2149.8 | 2114.0 | 2125.0 | 2177.3 | 2180.0 | 2119.5 | 2036.9 | 2025.9 | 2034.2 | 2039.7 |
| 27.5° | 2312.2 | 2320.4 | 2290.2 | 2301.2 | 2323.2 | 2342.5 | 2290.2 | 2221.3 | 2196.6 | 2193.8 | 2202.1 |
| 30° | 2488.3 | 2504.9 | 2502.1 | 2548.9 | 2612.2 | 2623.2 | 2546.1 | 2433.3 | 2359.0 | 2345.2 | 2356.2 |
| 32.5° | 2719.6 | 2727.8 | 2722.3 | 2777.4 | 2948.0 | 3027.8 | 2826.9 | 2667.3 | 2568.2 | 2592.9 | 2568.2 |
| 35° | 3154.5 | 3146.2 | 3085.6 | 3096.7 | 3237.0 | 3294.8 | 3102.2 | 3000.3 | 2953.5 | 3003.1 | 2992.1 |
| 37.5° | 3528.8 | 3498.5 | 3449.0 | 3520.6 | 3666.4 | 3718.7 | 3517.8 | 3338.9 | 3253.6 | 3336.1 | 3371.9 |
| 40° | 3845.4 | 3768.3 | 3699.5 | 3771.0 | 3966.5 | 4038.0 | 3743.5 | 3597.6 | 3564.6 | 3625.2 | 3702.2 |
| 42.5° | 4112.4 | 4062.8 | 3972.0 | 3977.5 | 4106.9 | 4139.9 | 3903.2 | 3817.8 | 3784.8 | 3881.1 | 3919.7 |
| 45° | 4302.3 | 4255.5 | 4170.2 | 4164.7 | 4263.8 | 4241.7 | 4029.8 | 3972.0 | 3991.2 | 4054.6 | 4073.8 |
| 47.5° | 4398.6 | 4423.4 | 4373.9 | 4387.6 | 4439.9 | 4387.6 | 4219.7 | 4219.7 | 4175.7 | 4214.2 | 4194.9 |
| 50° | 4676.6 | 4599.6 | 4662.9 | 4662.9 | 4717.9 | 4723.4 | 4555.5 | 4495.0 | 4376.6 | 4310.5 | 4310.5 |
| 52.5° | 5001.4 | 5007.0 | 5031.7 | 5122.6 | 5216.1 | 5296.0 | 5056.5 | 4797.8 | 4599.6 | 4514.2 | 4503.2 |
| 55° | 5268.4 | 5323.5 | 5422.6 | 5593.3 | 5863.0 | 5973.1 | 5560.2 | 5097.8 | 4855.6 | 4723.4 | 4695.9 |
| 56° | 5414.3 | 5362.0 | 5532.7 | 5766.7 | 6119.0 | 6262.1 | 5642.8 | 5158.3 | 4891.3 | 4742.7 | 4740.0 |
| 57.5° | 5274.0 | 5331.8 | 5450.1 | 5819.0 | 6251.1 | 6438.3 | 5673.1 | 5130.8 | 4748.2 | 4596.8 | 4610.6 |
| 60° | 4164.7 | 4219.7 | 4379.4 | 4792.3 | 5469.4 | 5615.3 | 4800.5 | 4230.7 | 3889.4 | 3671.9 | 3674.7 |
| 62.5° | 2356.2 | 2397.5 | 2521.4 | 2904.0 | 3325.1 | 3465.5 | 2992.1 | 2612.2 | 2375.5 | 2254.4 | 2215.8 |
| 65° | 867.1 | 850.5 | 869.8 | 1065.3 | 1324.0 | 1442.4 | 1244.2 | 1051.5 | 927.6 | 883.6 | 867.1 |
| 67.5° | 324.8 | 300.0 | 280.8 | 300.0 | 377.1 | 399.1 | 366.1 | 305.5 | 286.3 | 294.5 | 300.0 |
| 70° | 200.9 | 189.9 | 151.4 | 143.1 | 140.4 | 137.6 | 145.9 | 154.1 | 176.2 | 206.4 | 211.9 |
| 72.5° | 140.4 | 132.1 | 107.4 | 101.8 | 96.3 | 93.6 | 107.4 | 118.4 | 137.6 | 159.6 | 162.4 |
| 75° | 55.1 | 57.8 | 55.1 | 60.6 | 63.3 | 66.1 | 77.1 | 85.3 | 93.6 | 93.6 | 90.8 |
| 77.5° | 11.0 | 11.0 | 16.5 | 22.0 | 27.5 | 35.8 | 52.3 | 60.6 | 63.3 | 60.6 | 52.3 |
| 80° | 0.0 | 0.0 | 5.5 | 11.0 | 22.0 | 30.3 | 46.8 | 52.3 | 57.8 | 52.3 | 41.3 |
| 82.5° | 0.0 | 0.0 | 5.5 | 13.8 | 22.0 | 27.5 | 44.0 | 55.1 | 63.3 | 57.8 | 44.0 |
| 85° | 0.0 | 0.0 | 5.5 | 11.0 | 16.5 | 19.3 | 19.3 | 13.8 | 13.8 | 8.3 | 5.5 |
| 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)