

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: P527652

Luminaire Tested: **GALN-SA2D-722-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-722-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10301 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

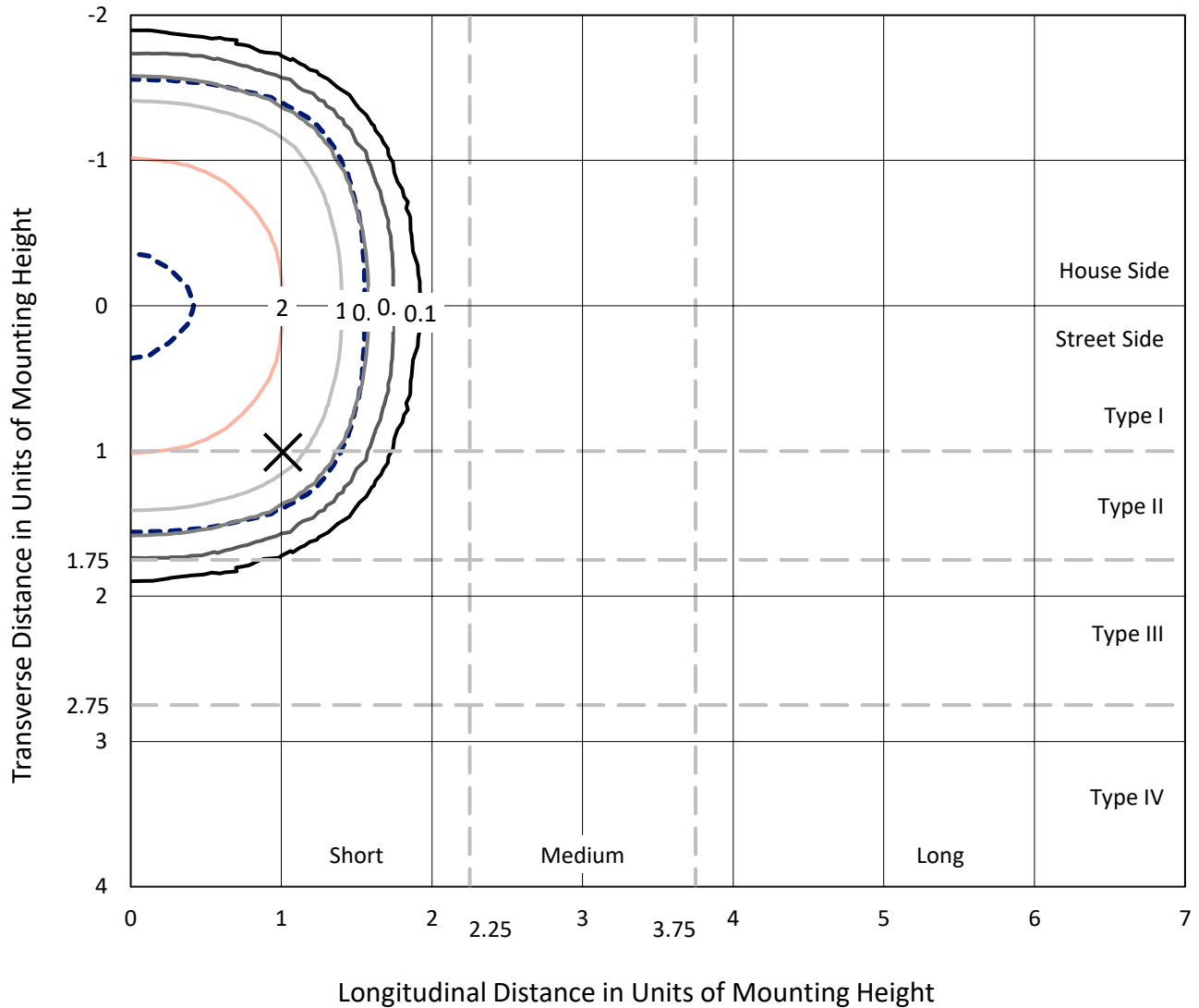
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

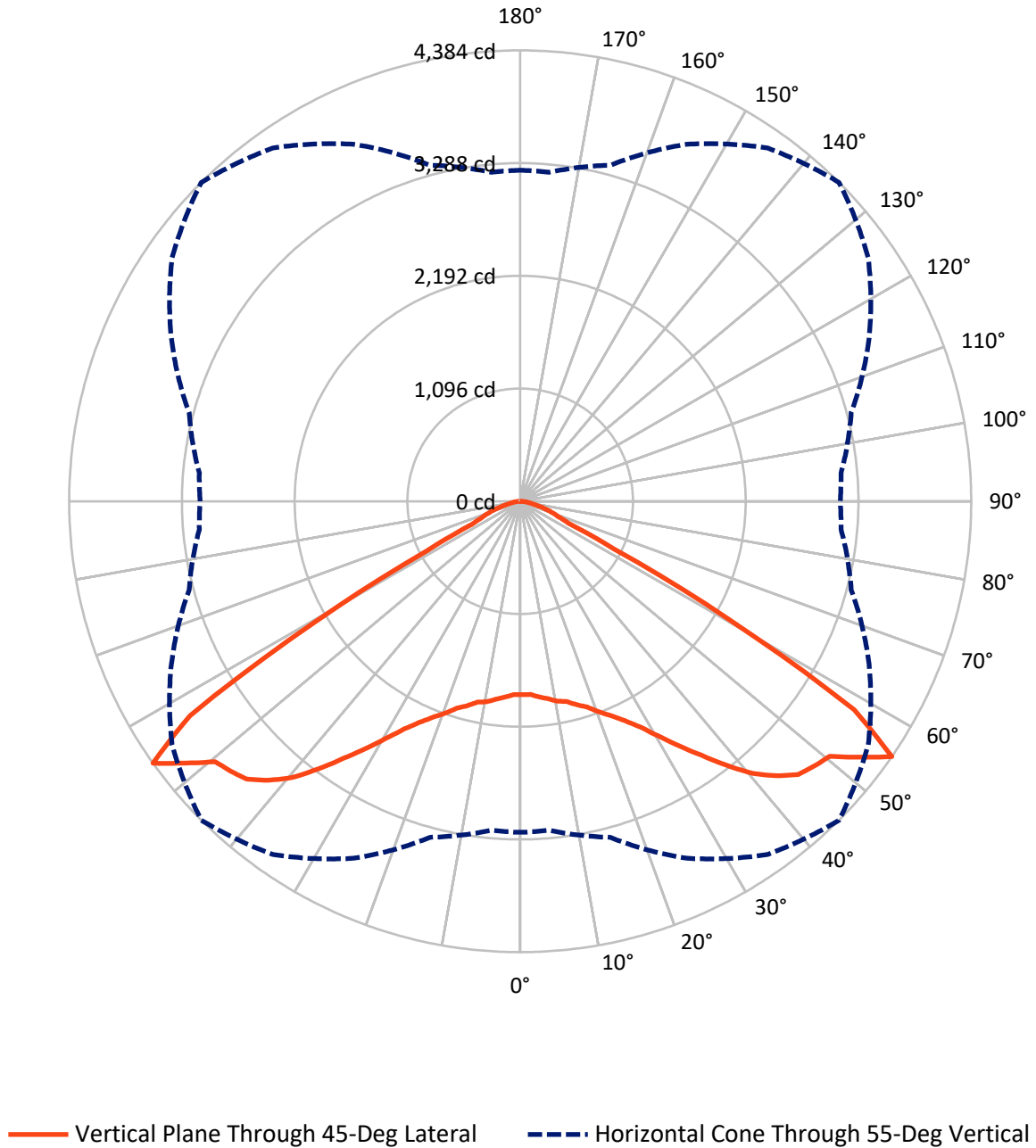
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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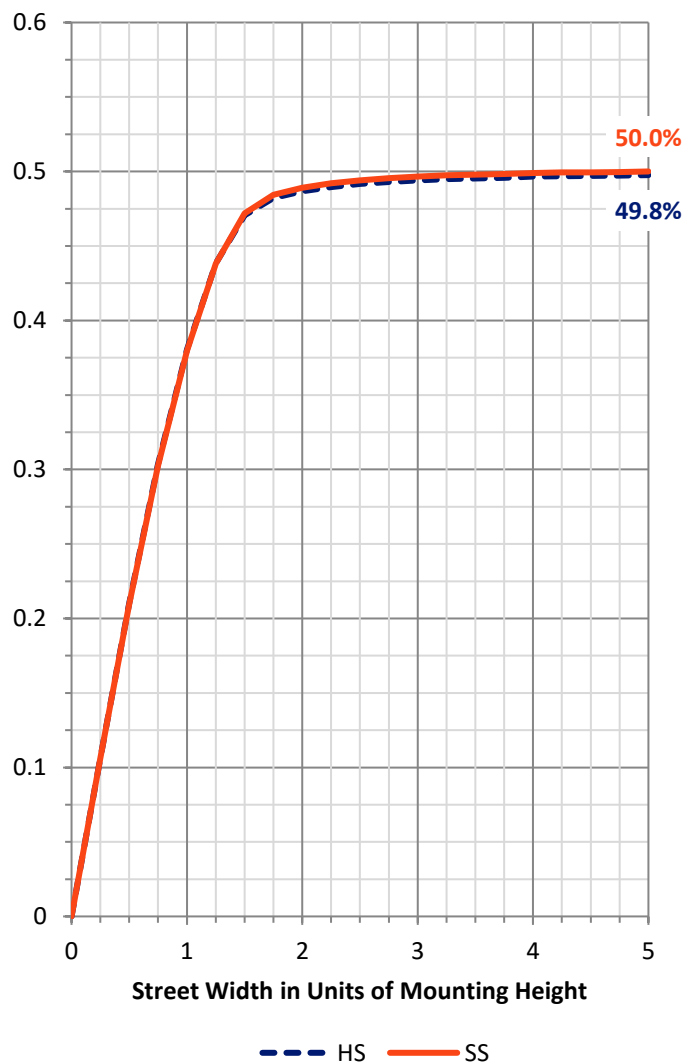
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5150.5 | 0.0 | 5150.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5150.5 | 0.0 | 5150.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 10301.0 | 0.0 | 10301.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 183.7 | 1.8 |
| 10°-20° | 582.2 | 5.7 |
| 20°-30° | 1085.6 | 10.5 |
| 30°-40° | 1817.6 | 17.6 |
| 40°-50° | 2828.3 | 27.5 |
| 50°-60° | 2936.7 | 28.5 |
| 60°-70° | 622.8 | 6.0 |
| 70°-80° | 205.1 | 2.0 |
| 80°-90° | 39.1 | 0.4 |
| 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° | 10301.0 | 100.0 |
| 0°-180° | 10301.0 | 100.0 |

Coefficient of Utilization



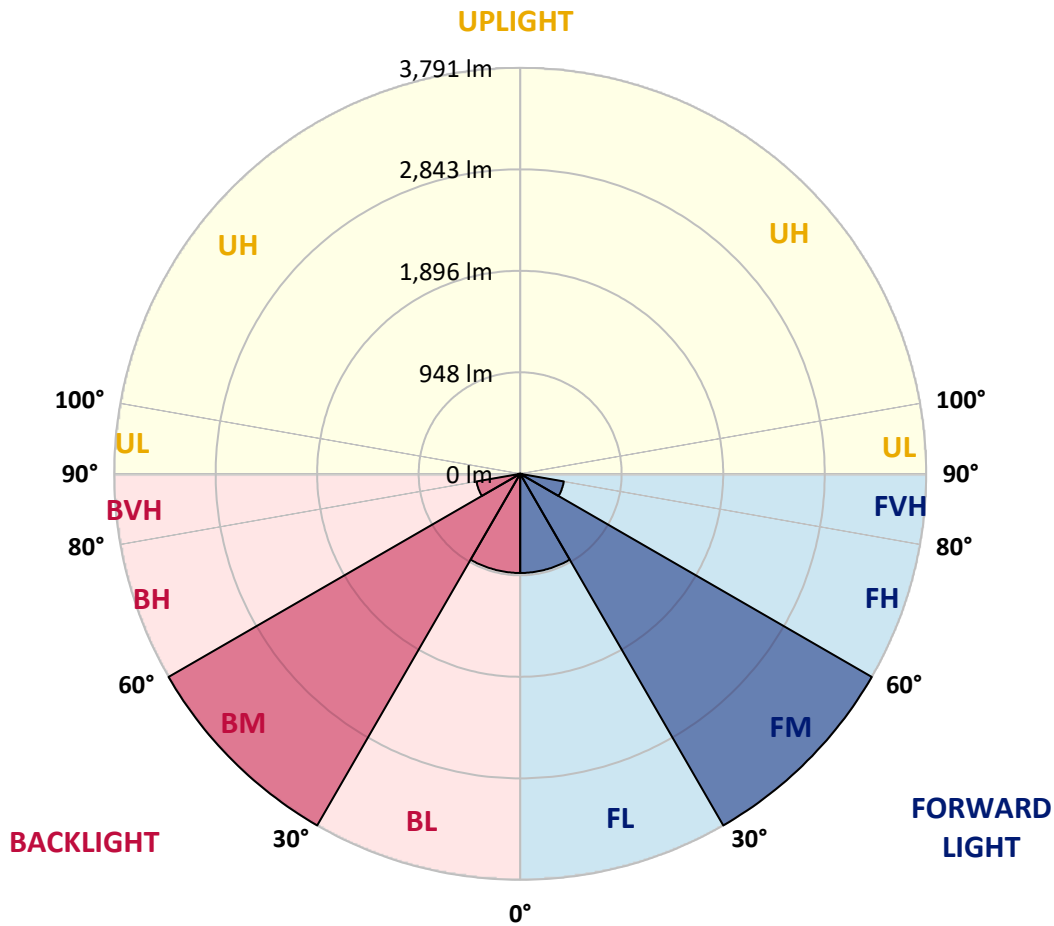
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 925.7 | 9.0 | | | |
| FM (30°-60°) | 3791.3 | 36.8 | | | |
| FH (60°-80°) | 413.9 | 4.0 | | | G0/660 |
| FVH (80°-90°) | 19.5 | 0.2 | | | G1/100 |
| BL (0°-30°) | 925.7 | 9.0 | B2/1000 | | |
| BM (30°-60°) | 3791.3 | 36.8 | B3/5000 | | |
| BH (60°-80°) | 413.9 | 4.0 | B1/500 | | G0/660 |
| BVH (80°-90°) | 19.5 | 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° | 1880.8 | 1880.8 | 1880.8 | 1880.8 | 1880.8 | 1880.8 | 1880.8 | 1880.8 | 1880.8 | 1880.8 | 1880.8 |
| 2.5° | 1903.2 | 1894.5 | 1879.6 | 1890.8 | 1899.5 | 1880.8 | 1888.3 | 1892.0 | 1889.5 | 1879.6 | 1883.3 |
| 5° | 1930.6 | 1925.6 | 1913.2 | 1921.9 | 1910.7 | 1910.7 | 1903.2 | 1893.3 | 1908.2 | 1905.7 | 1911.9 |
| 7.5° | 1930.6 | 1924.4 | 1949.3 | 1933.1 | 1938.1 | 1938.1 | 1925.6 | 1915.7 | 1923.1 | 1911.9 | 1905.7 |
| 10° | 1969.2 | 1977.9 | 1966.7 | 1970.4 | 1967.9 | 1976.7 | 1958.0 | 1951.8 | 1945.5 | 1941.8 | 1934.3 |
| 12.5° | 2015.2 | 2009.0 | 2012.8 | 2010.3 | 2019.0 | 1996.6 | 1985.4 | 1971.7 | 1982.9 | 1966.7 | 1977.9 |
| 15° | 2052.6 | 2048.8 | 2052.6 | 2062.5 | 2053.8 | 2052.6 | 2032.7 | 2019.0 | 2001.5 | 2005.3 | 1987.9 |
| 17.5° | 2103.6 | 2099.9 | 2101.1 | 2109.8 | 2108.6 | 2102.4 | 2087.4 | 2061.3 | 2055.1 | 2045.1 | 2033.9 |
| 20° | 2179.5 | 2173.3 | 2170.8 | 2174.6 | 2180.8 | 2185.8 | 2155.9 | 2145.9 | 2124.8 | 2108.6 | 2089.9 |
| 22.5° | 2244.3 | 2241.8 | 2251.7 | 2235.6 | 2249.3 | 2264.2 | 2235.6 | 2230.6 | 2178.3 | 2169.6 | 2149.7 |
| 25° | 2333.9 | 2330.2 | 2323.9 | 2347.6 | 2363.8 | 2362.5 | 2335.1 | 2307.8 | 2267.9 | 2258.0 | 2258.0 |
| 27.5° | 2428.5 | 2407.3 | 2439.7 | 2445.9 | 2474.6 | 2483.3 | 2459.6 | 2419.8 | 2382.4 | 2361.3 | 2366.3 |
| 30° | 2546.7 | 2526.8 | 2534.3 | 2579.1 | 2616.5 | 2648.8 | 2589.1 | 2530.6 | 2478.3 | 2440.9 | 2434.7 |
| 32.5° | 2665.0 | 2645.1 | 2667.5 | 2711.1 | 2785.7 | 2834.3 | 2775.8 | 2673.7 | 2612.7 | 2557.9 | 2569.2 |
| 35° | 2760.8 | 2775.8 | 2811.9 | 2877.8 | 2955.0 | 3033.4 | 2940.1 | 2861.7 | 2774.5 | 2713.5 | 2722.3 |
| 37.5° | 2915.2 | 2961.2 | 2989.9 | 3065.8 | 3175.3 | 3256.3 | 3159.2 | 3057.1 | 2963.7 | 2884.1 | 2856.7 |
| 40° | 3116.8 | 3148.0 | 3180.3 | 3269.9 | 3399.4 | 3480.3 | 3388.2 | 3255.0 | 3162.9 | 3080.7 | 3077.0 |
| 42.5° | 3338.4 | 3368.3 | 3401.9 | 3511.4 | 3588.6 | 3649.6 | 3564.9 | 3494.0 | 3391.9 | 3327.2 | 3323.5 |
| 45° | 3596.1 | 3574.9 | 3612.2 | 3684.4 | 3749.2 | 3789.0 | 3734.2 | 3699.4 | 3625.9 | 3566.2 | 3560.0 |
| 47.5° | 3767.8 | 3749.2 | 3816.4 | 3881.1 | 3891.1 | 3847.5 | 3858.7 | 3891.1 | 3813.9 | 3715.6 | 3746.7 |
| 50° | 3867.4 | 3867.4 | 3912.2 | 3972.0 | 3953.3 | 3897.3 | 3985.7 | 3988.2 | 3911.0 | 3823.9 | 3823.9 |
| 52.5° | 3694.4 | 3733.0 | 3860.0 | 4055.4 | 4117.6 | 4133.8 | 4113.9 | 4029.2 | 3827.6 | 3649.6 | 3640.9 |
| 55° | 3218.9 | 3210.2 | 3382.0 | 3830.1 | 4192.3 | 4384.0 | 4130.1 | 3740.5 | 3330.9 | 3130.5 | 3110.6 |
| 57.5° | 2093.7 | 2103.6 | 2360.0 | 2816.9 | 3470.3 | 3827.6 | 3399.4 | 2851.7 | 2360.0 | 2083.7 | 2109.8 |
| 60° | 942.3 | 975.9 | 1131.5 | 1472.5 | 2033.9 | 2325.2 | 2038.9 | 1547.2 | 1187.5 | 1030.6 | 1044.3 |
| 62.5° | 541.5 | 547.7 | 553.9 | 657.2 | 866.3 | 1024.4 | 900.0 | 694.6 | 612.4 | 585.0 | 585.0 |
| 65° | 456.8 | 453.1 | 454.3 | 463.0 | 485.5 | 517.8 | 504.1 | 485.5 | 487.9 | 485.5 | 481.7 |
| 67.5° | 388.4 | 393.3 | 389.6 | 395.8 | 397.1 | 402.1 | 410.8 | 418.2 | 419.5 | 422.0 | 419.5 |
| 70° | 318.7 | 319.9 | 322.4 | 327.4 | 328.6 | 332.3 | 344.8 | 351.0 | 354.8 | 354.8 | 359.7 |
| 72.5° | 244.0 | 242.7 | 245.2 | 250.2 | 256.4 | 257.7 | 268.9 | 277.6 | 282.6 | 276.3 | 277.6 |
| 75° | 160.6 | 161.8 | 165.6 | 169.3 | 178.0 | 186.7 | 190.4 | 199.2 | 200.4 | 202.9 | 196.7 |
| 77.5° | 95.8 | 98.3 | 102.1 | 109.5 | 117.0 | 124.5 | 133.2 | 139.4 | 141.9 | 139.4 | 131.9 |
| 80° | 62.2 | 62.2 | 67.2 | 73.4 | 82.2 | 88.4 | 93.4 | 98.3 | 102.1 | 98.3 | 95.8 |
| 82.5° | 38.6 | 38.6 | 44.8 | 52.3 | 58.5 | 62.2 | 69.7 | 75.9 | 79.7 | 77.2 | 73.4 |
| 85° | 19.9 | 21.2 | 26.1 | 32.4 | 37.3 | 39.8 | 38.6 | 34.9 | 31.1 | 29.9 | 27.4 |
| 87.5° | 6.2 | 6.2 | 7.5 | 7.5 | 6.2 | 6.2 | 7.5 | 6.2 | 7.5 | 7.5 | 7.5 |
| 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)