

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: P527679

Luminaire Tested: **GALN-SA2D-727-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527679
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: McGRAW-EDISON
Catalog Number: GALN-SA2D-727-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 6787 lumens
Efficiency: N/A
Efficacy: 54.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

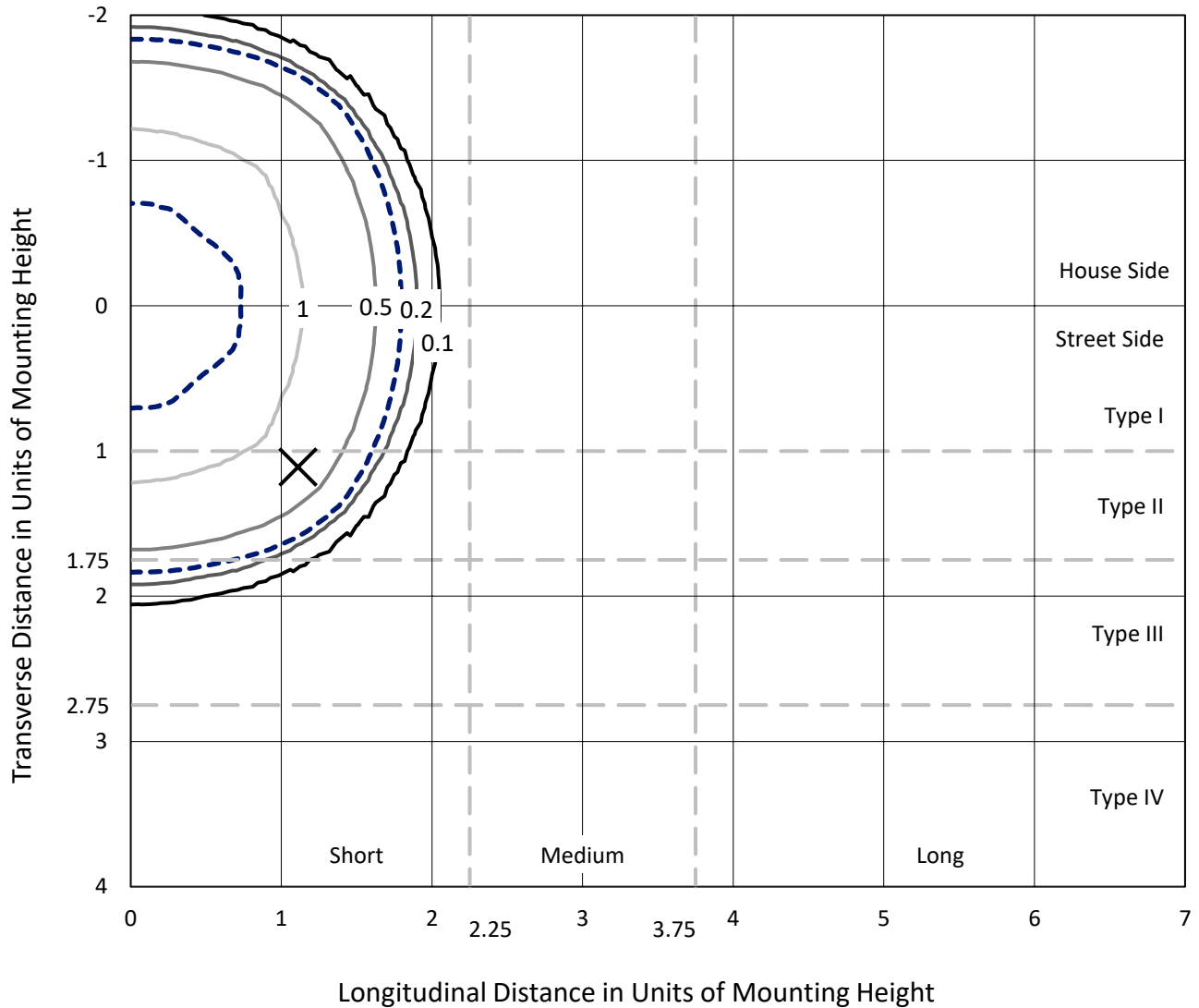
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

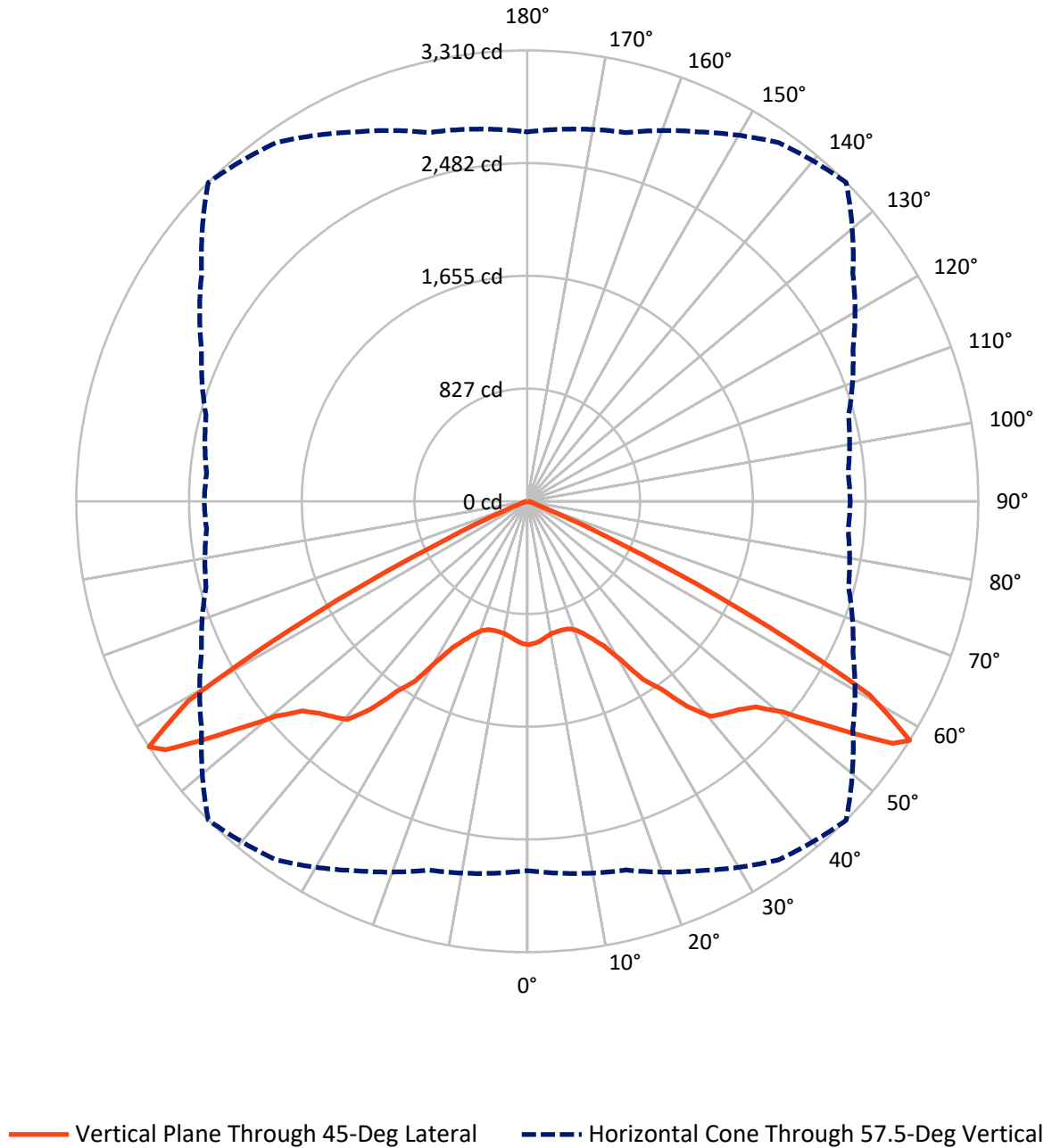
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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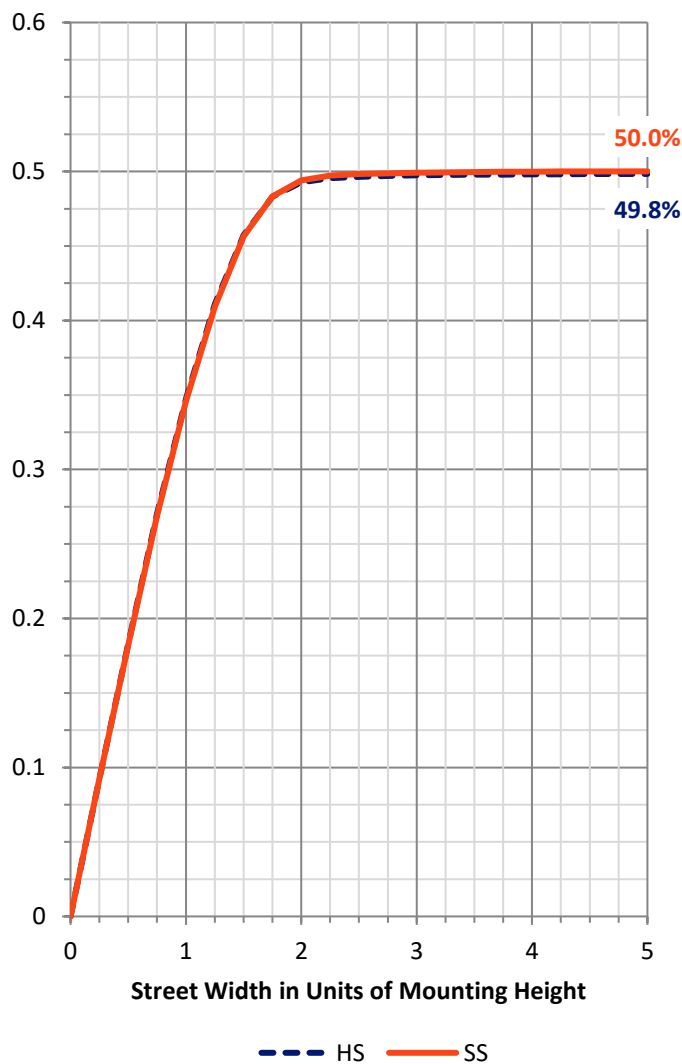
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3393.5 | 0.0 | 3393.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3393.5 | 0.0 | 3393.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6787.0 | 0.0 | 6787.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 96.7 | 1.4 |
| 10°-20° | 279.6 | 4.1 |
| 20°-30° | 516.2 | 7.6 |
| 30°-40° | 1015.1 | 15.0 |
| 40°-50° | 1653.3 | 24.4 |
| 50°-60° | 2357.8 | 34.7 |
| 60°-70° | 816.3 | 12.0 |
| 70°-80° | 43.8 | 0.6 |
| 80°-90° | 8.2 | 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° | 6787.0 | 100.0 |
| 0°-180° | 6787.0 | 100.0 |

Coefficient of Utilization



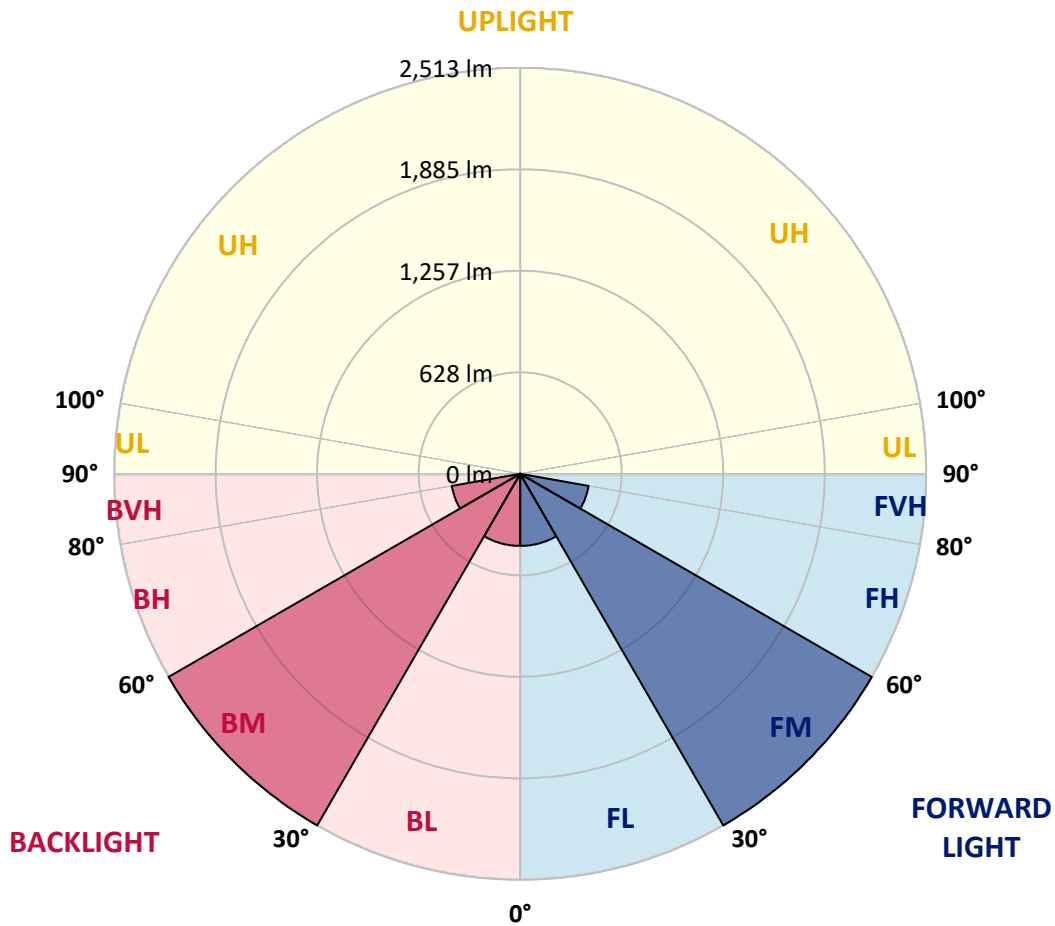
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 446.3 | 6.6 | | | |
| FM (30°-60°) | 2513.1 | 37.0 | | | |
| FH (60°-80°) | 430.1 | 6.3 | | | G0/660 |
| FVH (80°-90°) | 4.1 | 0.1 | | | G0/10 |
| BL (0°-30°) | 446.3 | 6.6 | B1/500 | | |
| BM (30°-60°) | 2513.1 | 37.0 | B3/5000 | | |
| BH (60°-80°) | 430.1 | 6.3 | B1/500 | | G0/660 |
| BVH (80°-90°) | 4.1 | 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-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1052.7 | 1052.7 | 1052.7 | 1052.7 | 1052.7 | 1052.7 | 1052.7 | 1052.7 | 1052.7 | 1052.7 | 1052.7 |
| 2.5° | 1049.9 | 1055.6 | 1048.5 | 1045.7 | 1044.2 | 1044.2 | 1040.0 | 1040.0 | 1038.6 | 1040.0 | 1034.3 |
| 5° | 1032.9 | 1038.6 | 1038.6 | 1037.2 | 1028.7 | 1027.3 | 1023.0 | 1020.2 | 1021.6 | 1015.9 | 1020.2 |
| 7.5° | 1015.9 | 1020.2 | 1014.5 | 1013.1 | 1010.3 | 1004.6 | 1003.2 | 990.5 | 991.9 | 991.9 | 994.7 |
| 10° | 1013.1 | 1011.7 | 1003.2 | 996.1 | 987.6 | 986.2 | 982.0 | 979.2 | 979.2 | 977.7 | 982.0 |
| 12.5° | 1013.1 | 1006.0 | 1004.6 | 989.1 | 974.9 | 980.6 | 969.3 | 962.2 | 972.1 | 974.9 | 980.6 |
| 15° | 1011.7 | 1018.8 | 994.7 | 987.6 | 977.7 | 979.2 | 969.3 | 962.2 | 967.8 | 970.7 | 974.9 |
| 17.5° | 1020.2 | 1015.9 | 1008.9 | 994.7 | 990.5 | 984.8 | 972.1 | 966.4 | 966.4 | 973.5 | 974.9 |
| 20° | 1042.8 | 1031.5 | 1017.4 | 1010.3 | 1014.5 | 1007.5 | 991.9 | 970.7 | 976.3 | 982.0 | 986.2 |
| 22.5° | 1064.1 | 1055.6 | 1045.7 | 1041.4 | 1065.5 | 1054.1 | 1027.3 | 1003.2 | 994.7 | 1004.6 | 1011.7 |
| 25° | 1105.1 | 1105.1 | 1086.7 | 1092.4 | 1119.2 | 1120.7 | 1089.5 | 1047.1 | 1041.4 | 1045.7 | 1048.5 |
| 27.5° | 1188.6 | 1192.8 | 1177.3 | 1182.9 | 1194.2 | 1204.1 | 1177.3 | 1141.9 | 1129.1 | 1127.7 | 1132.0 |
| 30° | 1279.1 | 1287.6 | 1286.2 | 1310.3 | 1342.8 | 1348.5 | 1308.8 | 1250.8 | 1212.6 | 1205.6 | 1211.2 |
| 32.5° | 1398.0 | 1402.2 | 1399.4 | 1427.7 | 1515.4 | 1556.5 | 1453.2 | 1371.1 | 1320.2 | 1332.9 | 1320.2 |
| 35° | 1621.6 | 1617.3 | 1586.2 | 1591.8 | 1664.0 | 1693.7 | 1594.7 | 1542.3 | 1518.3 | 1543.7 | 1538.1 |
| 37.5° | 1814.0 | 1798.4 | 1773.0 | 1809.7 | 1884.7 | 1911.6 | 1808.3 | 1716.4 | 1672.5 | 1714.9 | 1733.3 |
| 40° | 1976.7 | 1937.1 | 1901.7 | 1938.5 | 2039.0 | 2075.8 | 1924.4 | 1849.4 | 1832.4 | 1863.5 | 1903.1 |
| 42.5° | 2114.0 | 2088.5 | 2041.8 | 2044.6 | 2111.1 | 2128.1 | 2006.4 | 1962.6 | 1945.6 | 1995.1 | 2014.9 |
| 45° | 2211.6 | 2187.5 | 2143.7 | 2140.8 | 2191.8 | 2180.5 | 2071.5 | 2041.8 | 2051.7 | 2084.2 | 2094.1 |
| 47.5° | 2261.1 | 2273.9 | 2248.4 | 2255.5 | 2282.3 | 2255.5 | 2169.1 | 2169.1 | 2146.5 | 2166.3 | 2156.4 |
| 50° | 2404.0 | 2364.4 | 2397.0 | 2397.0 | 2425.3 | 2428.1 | 2341.8 | 2310.6 | 2249.8 | 2215.8 | 2215.8 |
| 52.5° | 2571.0 | 2573.8 | 2586.6 | 2633.3 | 2681.4 | 2722.4 | 2599.3 | 2466.3 | 2364.4 | 2320.5 | 2314.9 |
| 55° | 2708.2 | 2736.5 | 2787.5 | 2875.2 | 3013.9 | 3070.5 | 2858.2 | 2620.5 | 2496.0 | 2428.1 | 2413.9 |
| 56° | 2783.2 | 2756.4 | 2844.1 | 2964.4 | 3145.5 | 3219.0 | 2900.7 | 2651.6 | 2514.4 | 2438.0 | 2436.6 |
| 57.5° | 2711.1 | 2740.8 | 2801.6 | 2991.2 | 3213.4 | 3309.6 | 2916.2 | 2637.5 | 2440.8 | 2363.0 | 2370.1 |
| 60° | 2140.8 | 2169.1 | 2251.2 | 2463.5 | 2811.5 | 2886.5 | 2467.7 | 2174.8 | 1999.3 | 1887.6 | 1889.0 |
| 62.5° | 1211.2 | 1232.4 | 1296.1 | 1492.8 | 1709.3 | 1781.4 | 1538.1 | 1342.8 | 1221.1 | 1158.9 | 1139.0 |
| 65° | 445.7 | 437.2 | 447.1 | 547.6 | 680.6 | 741.4 | 639.6 | 540.5 | 476.8 | 454.2 | 445.7 |
| 67.5° | 167.0 | 154.2 | 144.3 | 154.2 | 193.9 | 205.2 | 188.2 | 157.1 | 147.2 | 151.4 | 154.2 |
| 70° | 103.3 | 97.6 | 77.8 | 73.6 | 72.2 | 70.7 | 75.0 | 79.2 | 90.6 | 106.1 | 109.0 |
| 72.5° | 72.2 | 67.9 | 55.2 | 52.4 | 49.5 | 48.1 | 55.2 | 60.8 | 70.7 | 82.1 | 83.5 |
| 75° | 28.3 | 29.7 | 28.3 | 31.1 | 32.5 | 34.0 | 39.6 | 43.9 | 48.1 | 48.1 | 46.7 |
| 77.5° | 5.7 | 5.7 | 8.5 | 11.3 | 14.1 | 18.4 | 26.9 | 31.1 | 32.5 | 31.1 | 26.9 |
| 80° | 0.0 | 0.0 | 2.8 | 5.7 | 11.3 | 15.6 | 24.1 | 26.9 | 29.7 | 26.9 | 21.2 |
| 82.5° | 0.0 | 0.0 | 2.8 | 7.1 | 11.3 | 14.1 | 22.6 | 28.3 | 32.5 | 29.7 | 22.6 |
| 85° | 0.0 | 0.0 | 2.8 | 5.7 | 8.5 | 9.9 | 9.9 | 7.1 | 7.1 | 4.2 | 2.8 |
| 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)