

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: P652266

Luminaire Tested: **GALN-SA3B-840-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652266
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-840-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14951.3 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

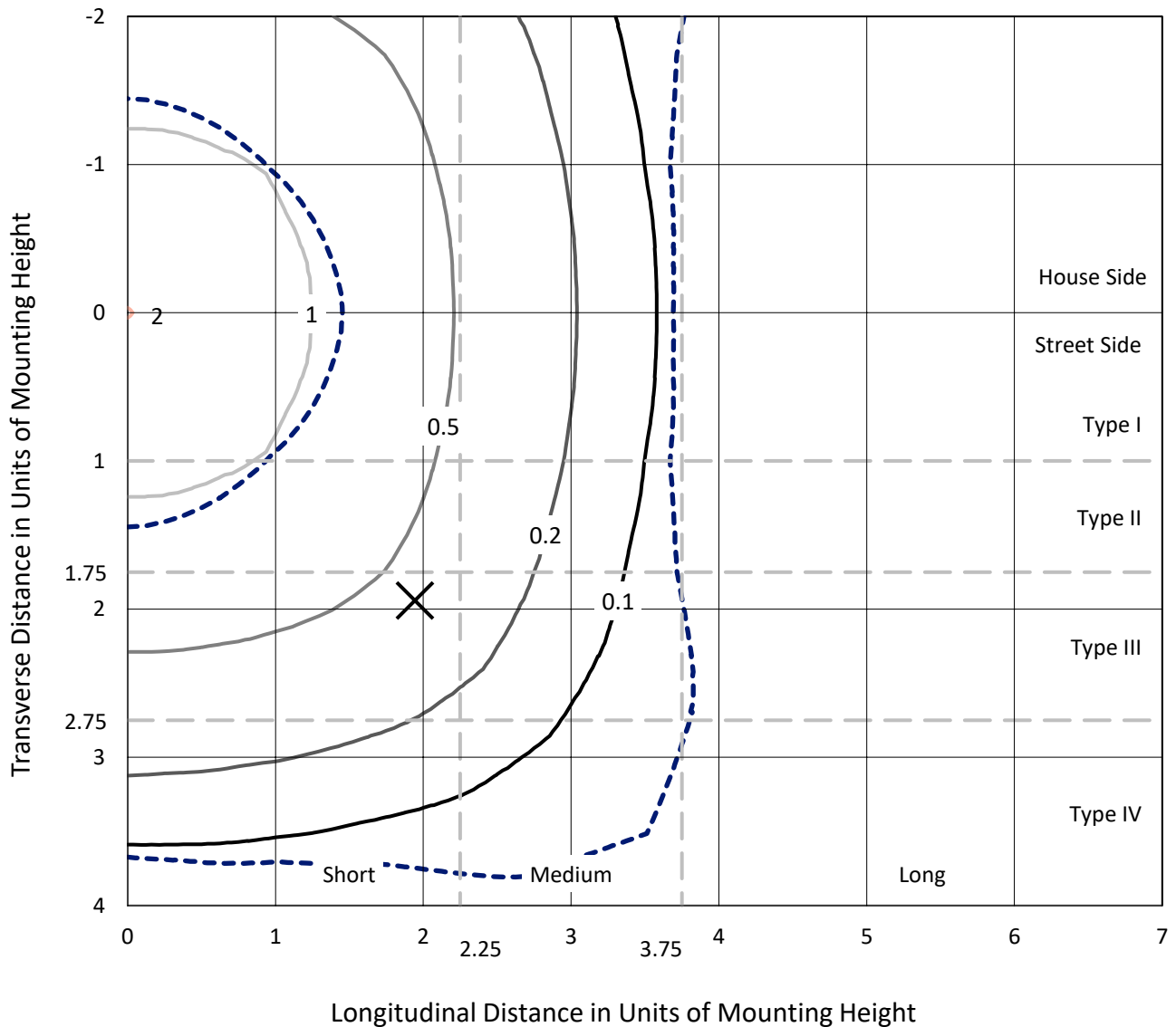
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

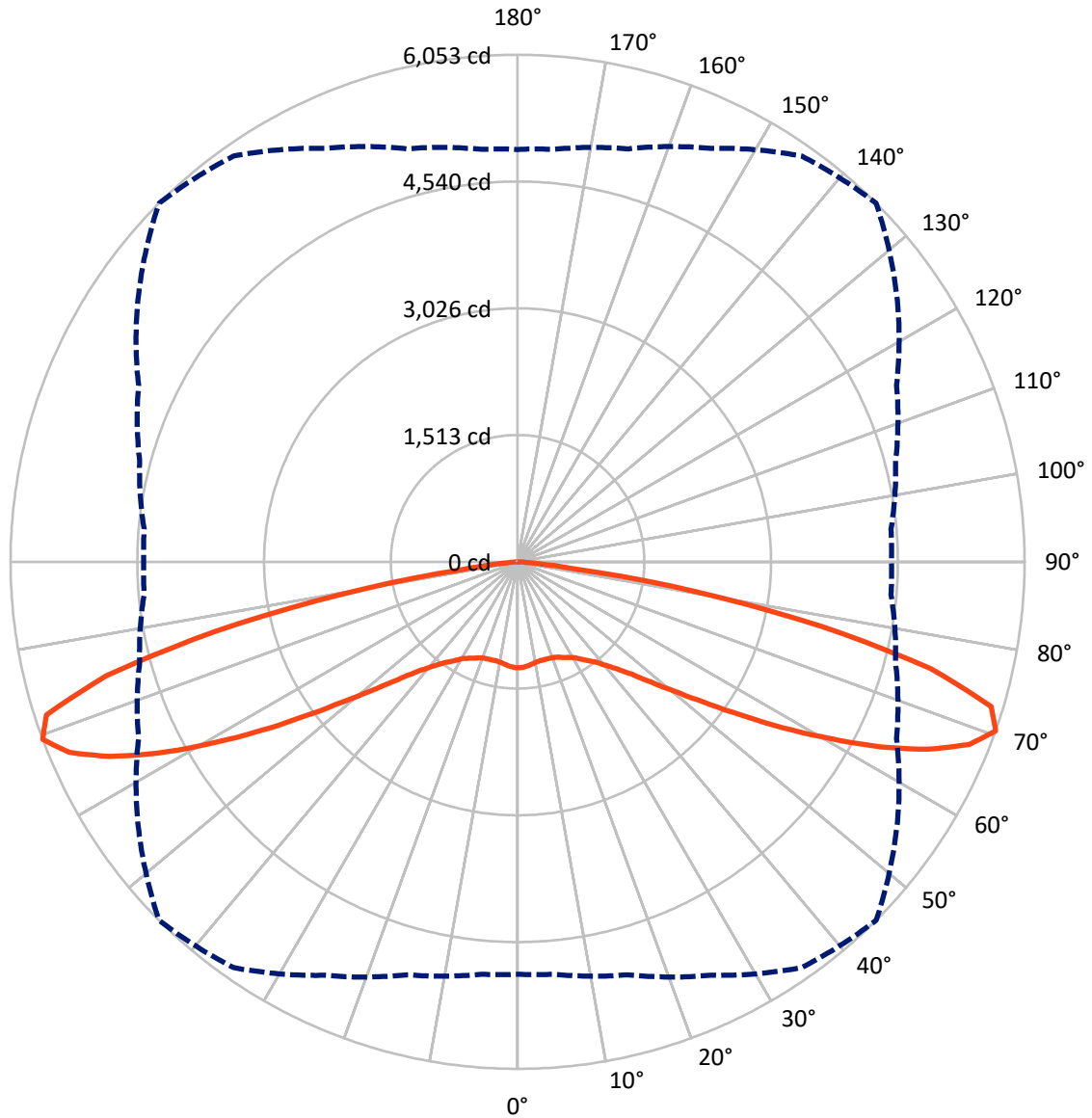
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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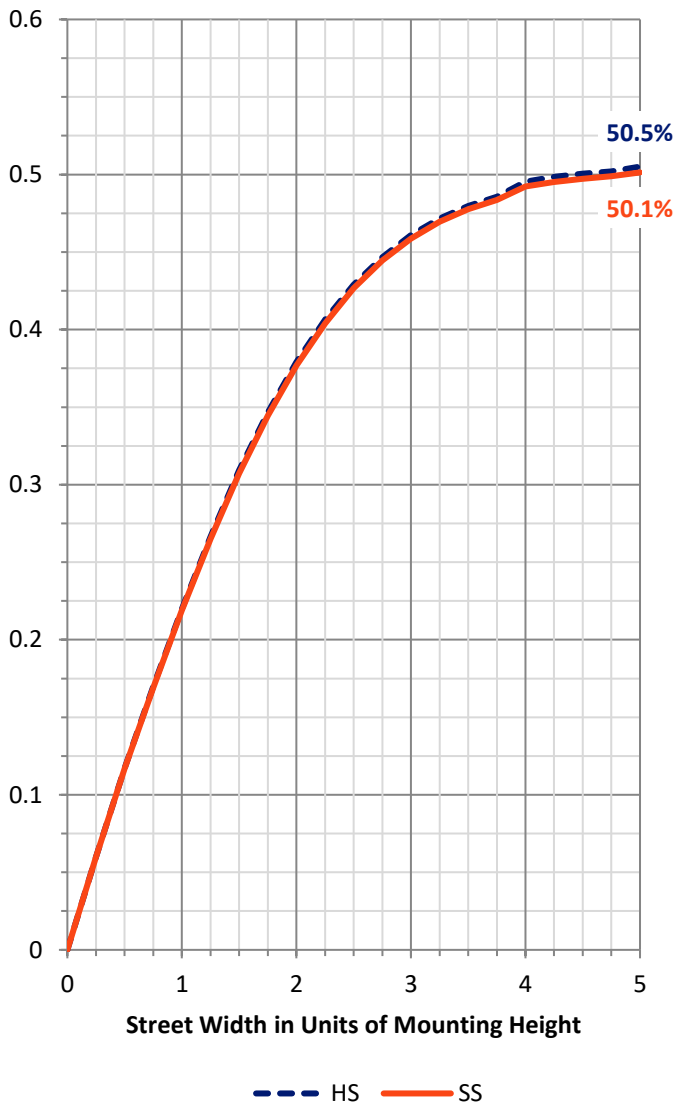
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7475.6 | 0.0 | 7475.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7475.6 | 0.0 | 7475.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 14951.3 | 0.0 | 14951.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 118.4 | 0.8 |
| 10°-20° | 346.6 | 2.3 |
| 20°-30° | 590.5 | 3.9 |
| 30°-40° | 915.2 | 6.1 |
| 40°-50° | 1540.4 | 10.3 |
| 50°-60° | 2802.7 | 18.7 |
| 60°-70° | 4744.9 | 31.7 |
| 70°-80° | 3672.7 | 24.6 |
| 80°-90° | 220.1 | 1.5 |
| 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° | 14951.3 | 100.0 |
| 0°-180° | 14951.3 | 100.0 |



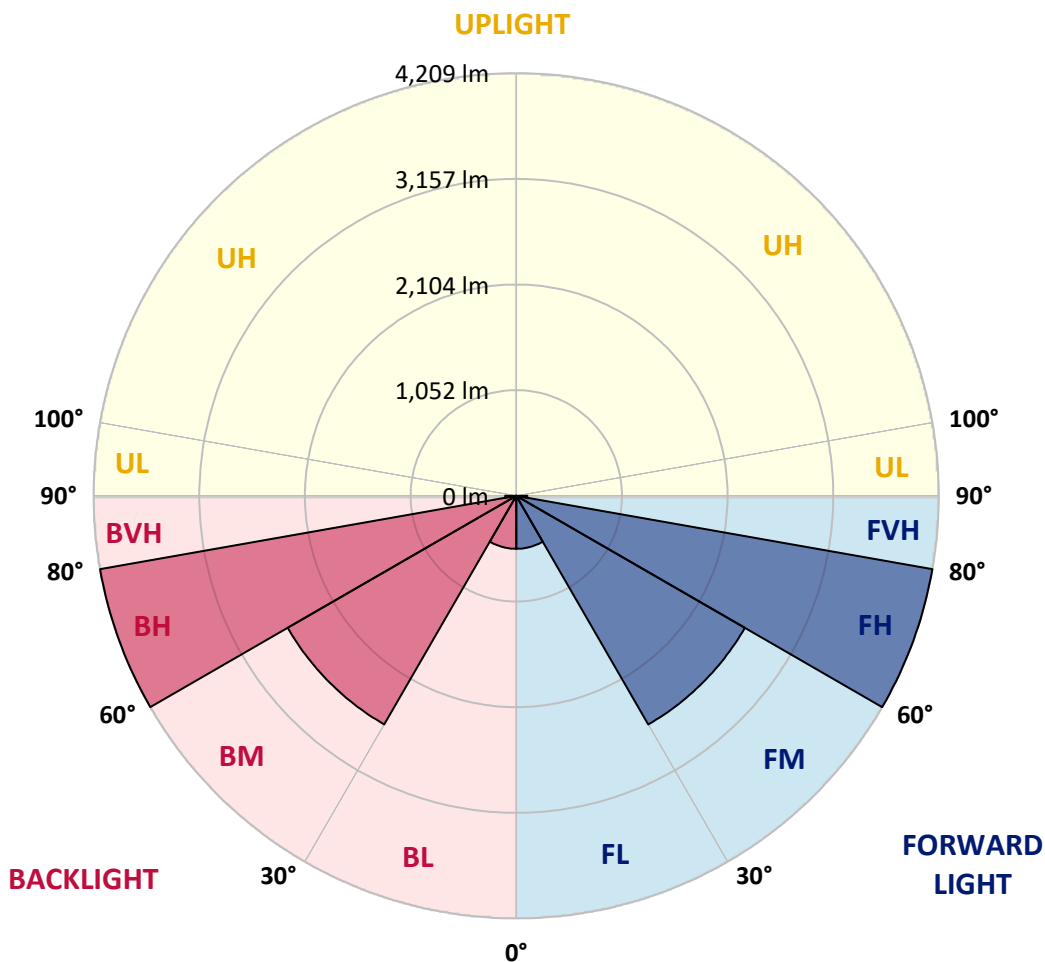
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 527.7 | 3.5 | | | |
| FM (30°-60°) | 2629.1 | 17.6 | | | |
| FH (60°-80°) | 4208.8 | 28.1 | | | G2/5000 |
| FVH (80°-90°) | 110.0 | 0.7 | | | G2/225 |
| BL (0°-30°) | 527.7 | 3.5 | B2/1000 | | |
| BM (30°-60°) | 2629.1 | 17.6 | B3/5000 | | |
| BH (60°-80°) | 4208.8 | 28.1 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 110.0 | 0.7 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1265.8 | 1265.8 | 1265.8 | 1265.8 | 1265.8 | 1265.8 | 1265.8 | 1265.8 | 1265.8 | 1265.8 | 1265.8 |
| 2.5° | 1262.7 | 1263.4 | 1263.4 | 1261.8 | 1261.1 | 1261.1 | 1260.3 | 1260.3 | 1262.7 | 1263.4 | 1264.2 |
| 5° | 1251.6 | 1251.6 | 1251.6 | 1250.8 | 1249.2 | 1249.2 | 1247.6 | 1247.6 | 1248.5 | 1250.8 | 1249.2 |
| 7.5° | 1236.6 | 1238.2 | 1238.2 | 1235.0 | 1232.7 | 1232.7 | 1231.9 | 1232.7 | 1233.4 | 1235.8 | 1235.0 |
| 10° | 1231.9 | 1232.7 | 1228.7 | 1223.2 | 1219.2 | 1216.8 | 1217.6 | 1219.2 | 1223.2 | 1224.7 | 1225.5 |
| 12.5° | 1235.0 | 1235.0 | 1227.9 | 1220.0 | 1212.9 | 1209.8 | 1208.9 | 1214.5 | 1221.6 | 1226.3 | 1227.9 |
| 15° | 1239.0 | 1237.4 | 1228.7 | 1218.4 | 1211.3 | 1210.5 | 1209.8 | 1213.7 | 1224.0 | 1233.4 | 1234.3 |
| 17.5° | 1241.3 | 1240.6 | 1229.5 | 1216.8 | 1212.9 | 1212.9 | 1212.1 | 1215.2 | 1226.3 | 1238.2 | 1239.0 |
| 20° | 1249.2 | 1246.9 | 1234.3 | 1220.8 | 1217.6 | 1219.2 | 1216.8 | 1220.8 | 1232.7 | 1246.9 | 1250.0 |
| 22.5° | 1265.0 | 1262.7 | 1250.0 | 1236.6 | 1235.0 | 1235.0 | 1234.3 | 1238.2 | 1250.8 | 1265.8 | 1268.1 |
| 25° | 1284.0 | 1281.6 | 1269.7 | 1260.3 | 1261.8 | 1265.0 | 1263.4 | 1264.2 | 1274.5 | 1287.2 | 1291.1 |
| 27.5° | 1309.3 | 1305.3 | 1295.1 | 1287.2 | 1291.9 | 1291.9 | 1291.9 | 1291.1 | 1297.4 | 1309.3 | 1313.2 |
| 30° | 1340.0 | 1338.5 | 1327.4 | 1326.6 | 1330.5 | 1326.6 | 1326.6 | 1327.4 | 1328.2 | 1339.2 | 1343.2 |
| 32.5° | 1380.3 | 1377.1 | 1371.6 | 1370.1 | 1381.1 | 1384.3 | 1373.2 | 1362.9 | 1368.5 | 1379.5 | 1381.9 |
| 35° | 1446.6 | 1441.9 | 1434.0 | 1425.3 | 1434.0 | 1449.0 | 1425.3 | 1417.4 | 1431.6 | 1446.6 | 1448.2 |
| 37.5° | 1536.7 | 1534.3 | 1521.6 | 1505.9 | 1505.1 | 1520.9 | 1496.4 | 1495.6 | 1522.5 | 1540.6 | 1543.0 |
| 40° | 1649.6 | 1652.0 | 1636.2 | 1621.1 | 1613.3 | 1625.9 | 1606.9 | 1614.0 | 1640.1 | 1660.6 | 1659.0 |
| 42.5° | 1808.3 | 1799.7 | 1775.1 | 1760.9 | 1752.2 | 1747.5 | 1742.7 | 1753.8 | 1783.0 | 1805.1 | 1822.5 |
| 45° | 1993.8 | 1990.7 | 1960.0 | 1942.5 | 1923.6 | 1916.5 | 1914.9 | 1934.6 | 1970.2 | 1997.0 | 1999.4 |
| 47.5° | 2203.9 | 2196.8 | 2177.1 | 2158.9 | 2151.8 | 2143.1 | 2135.2 | 2150.2 | 2185.8 | 2204.7 | 2210.2 |
| 50° | 2420.3 | 2421.8 | 2421.8 | 2418.7 | 2425.8 | 2427.4 | 2406.1 | 2411.6 | 2431.3 | 2429.7 | 2428.1 |
| 52.5° | 2667.4 | 2676.1 | 2717.2 | 2721.1 | 2755.1 | 2778.0 | 2739.3 | 2716.4 | 2709.3 | 2666.6 | 2669.8 |
| 55° | 2958.0 | 2966.0 | 3027.5 | 3089.1 | 3180.7 | 3219.4 | 3138.1 | 3067.0 | 3016.5 | 2951.7 | 2954.9 |
| 57.5° | 3320.5 | 3324.4 | 3382.8 | 3501.3 | 3646.6 | 3737.4 | 3594.5 | 3453.9 | 3351.3 | 3289.7 | 3265.2 |
| 60° | 3710.6 | 3714.5 | 3799.8 | 3944.3 | 4170.2 | 4280.7 | 4103.8 | 3874.1 | 3744.6 | 3650.5 | 3656.8 |
| 62.5° | 4178.8 | 4194.7 | 4271.2 | 4470.3 | 4744.2 | 4868.2 | 4633.7 | 4326.5 | 4151.2 | 4034.4 | 4039.1 |
| 65° | 4680.2 | 4707.1 | 4790.8 | 5009.6 | 5262.2 | 5395.7 | 5108.2 | 4753.7 | 4535.8 | 4392.8 | 4407.8 |
| 67.5° | 5005.6 | 5029.3 | 5150.1 | 5391.7 | 5706.8 | 5817.4 | 5446.2 | 5033.2 | 4760.8 | 4590.3 | 4558.6 |
| 70° | 4922.7 | 4942.4 | 5103.5 | 5446.2 | 5912.9 | 6052.7 | 5526.8 | 4992.2 | 4671.6 | 4475.0 | 4462.3 |
| 72.5° | 4345.4 | 4304.4 | 4539.7 | 5031.6 | 5677.6 | 5912.1 | 5273.3 | 4559.5 | 4156.0 | 3953.8 | 3930.1 |
| 75° | 2879.8 | 2969.1 | 3316.6 | 3896.1 | 4803.5 | 5094.0 | 4501.0 | 3660.8 | 3153.1 | 2984.9 | 2958.8 |
| 77.5° | 962.6 | 1031.3 | 1340.0 | 2208.6 | 3274.7 | 3711.3 | 3279.4 | 2394.2 | 1693.8 | 1364.5 | 1370.8 |
| 80° | 255.1 | 251.9 | 326.1 | 607.2 | 1415.1 | 2149.4 | 1647.2 | 811.0 | 443.8 | 321.3 | 304.8 |
| 82.5° | 91.6 | 102.7 | 131.9 | 168.2 | 375.1 | 668.0 | 471.4 | 227.4 | 166.6 | 123.2 | 119.3 |
| 85° | 40.3 | 39.4 | 56.9 | 67.1 | 93.9 | 124.8 | 110.6 | 96.4 | 84.5 | 56.1 | 52.1 |
| 87.5° | 8.7 | 8.7 | 13.5 | 10.3 | 16.6 | 16.6 | 20.5 | 24.5 | 25.2 | 16.6 | 13.5 |
| 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)