

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: P531101

Luminaire Tested: **GALN-SA6B-760-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-760-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22316 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

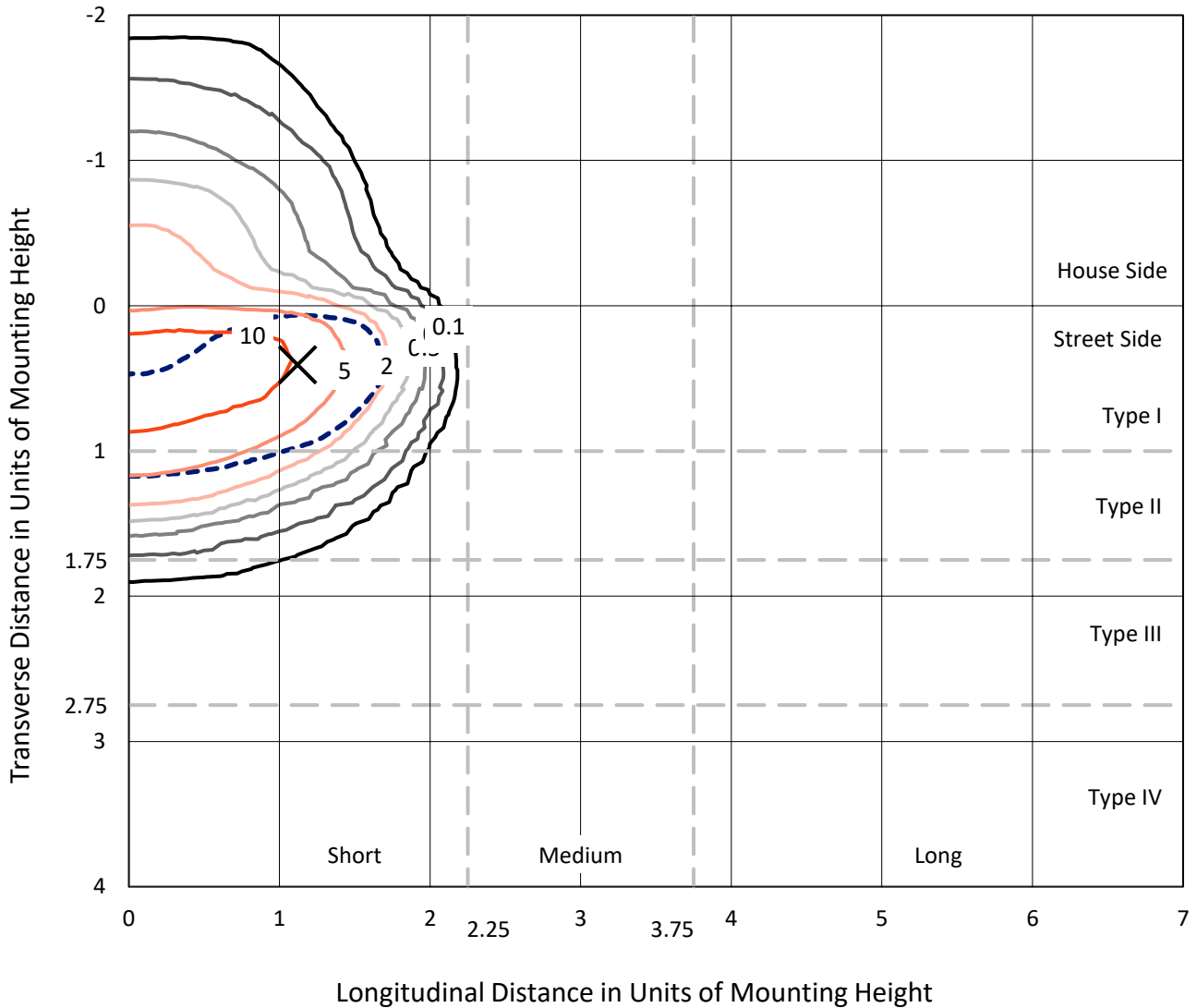
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

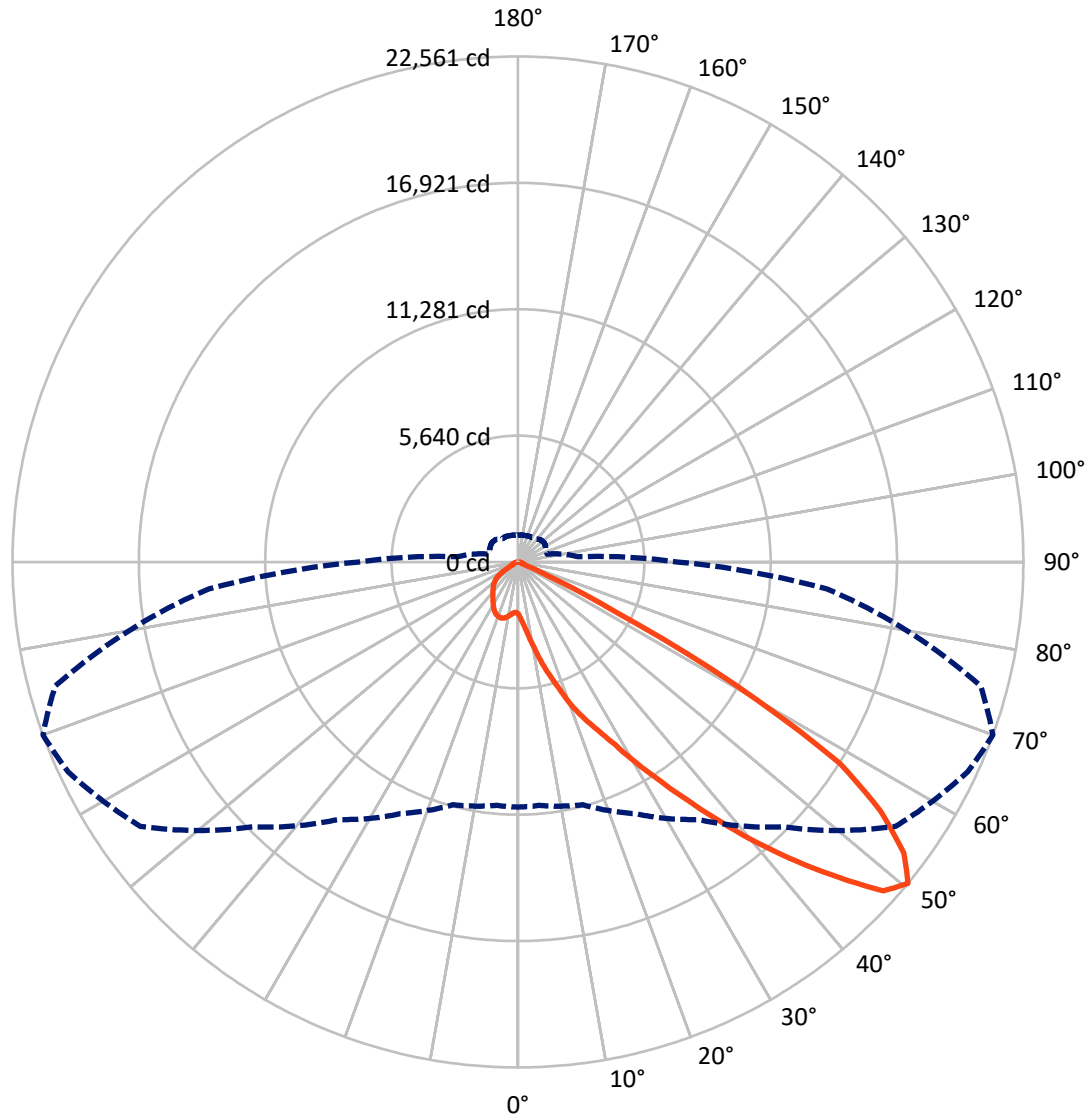
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3116.6 | 0.0 | 3116.6 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 19199.4 | 0.0 | 19199.4 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 22316.0 | 0.0 | 22316.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 300.6 | 1.3 |
| 10°-20° | 1300.2 | 5.8 |
| 20°-30° | 2727.6 | 12.2 |
| 30°-40° | 4701.5 | 21.1 |
| 40°-50° | 6871.1 | 30.8 |
| 50°-60° | 5351.5 | 24.0 |
| 60°-70° | 906.7 | 4.1 |
| 70°-80° | 124.6 | 0.6 |
| 80°-90° | 32.3 | 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° | 22316.0 | 100.0 |
| 0°-180° | 22316.0 | 100.0 |

Coefficient of Utilization



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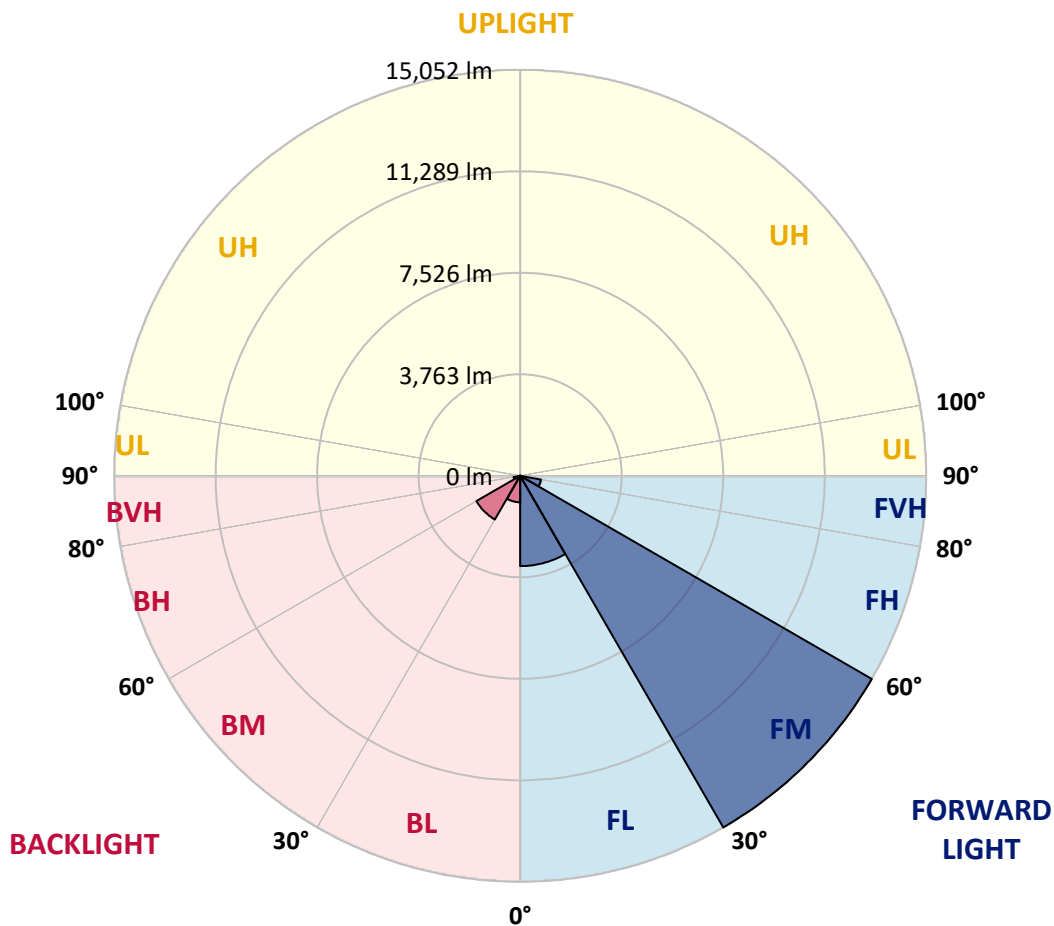
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3347.7 | 15.0 | | | |
| FM (30°-60°) | 15051.8 | 67.4 | | | |
| FH (60°-80°) | 785.1 | 3.5 | | | G1/1800 |
| FVH (80°-90°) | 14.9 | 0.1 | | | G1/100 |
| BL (0°-30°) | 980.7 | 4.4 | B2/1000 | | |
| BM (30°-60°) | 1872.3 | 8.4 | B2/2500 | | |
| BH (60°-80°) | 246.2 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 17.4 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2311.5 | 2311.5 | 2311.5 | 2311.5 | 2311.5 | 2311.5 | 2311.5 | 2311.5 | 2311.5 | 2311.5 | 2311.5 |
| 2.5° | 3027.0 | 3004.9 | 2957.3 | 2869.2 | 2832.5 | 2744.4 | 2693.1 | 2594.0 | 2531.6 | 2461.9 | 2384.9 |
| 5° | 4263.4 | 4149.7 | 4080.0 | 3980.9 | 3691.1 | 3511.3 | 3214.1 | 2960.9 | 2843.5 | 2715.1 | 2539.0 |
| 7.5° | 5540.3 | 5466.9 | 5371.5 | 5158.7 | 4960.5 | 4586.3 | 4076.3 | 3518.6 | 3280.1 | 3060.0 | 2711.4 |
| 10° | 6596.9 | 6391.5 | 6380.5 | 6222.7 | 6006.2 | 5558.6 | 4945.9 | 4252.4 | 3826.8 | 3503.9 | 2957.3 |
| 12.5° | 7334.4 | 7147.3 | 7231.7 | 7213.3 | 7011.5 | 6600.6 | 5892.5 | 4975.2 | 4531.3 | 4028.6 | 3210.4 |
| 15° | 8005.9 | 7928.8 | 7903.1 | 7881.1 | 7800.4 | 7495.9 | 6861.1 | 5855.8 | 5213.7 | 4608.3 | 3496.6 |
| 17.5° | 8662.6 | 8464.5 | 8559.9 | 8578.2 | 8570.9 | 8295.7 | 7701.3 | 6692.3 | 5936.5 | 5221.1 | 3797.5 |
| 20° | 9246.0 | 9264.3 | 9135.9 | 9110.2 | 9088.2 | 9077.2 | 8497.5 | 7521.5 | 6824.4 | 5863.1 | 4190.0 |
| 22.5° | 9994.5 | 9866.1 | 9979.8 | 9906.4 | 9763.3 | 9675.3 | 9231.3 | 8255.4 | 7594.9 | 6637.3 | 4590.0 |
| 25° | 10878.7 | 10981.5 | 10713.6 | 10684.3 | 10526.5 | 10222.0 | 9822.0 | 9077.2 | 8336.1 | 7356.4 | 5022.9 |
| 27.5° | 11968.4 | 11788.6 | 11718.9 | 11557.5 | 11271.3 | 11142.9 | 10673.3 | 9924.8 | 9231.3 | 8112.3 | 5441.2 |
| 30° | 12904.0 | 12856.3 | 12507.8 | 12317.0 | 12067.5 | 12063.8 | 11407.1 | 11073.2 | 10398.1 | 9297.4 | 6017.2 |
| 32.5° | 13667.2 | 13458.1 | 13329.6 | 13197.6 | 12995.8 | 13050.8 | 12496.8 | 12320.7 | 11641.9 | 10398.1 | 6696.0 |
| 35° | 14177.2 | 14026.8 | 13949.7 | 13747.9 | 13689.2 | 13935.0 | 13703.9 | 13630.5 | 13072.8 | 11946.4 | 7492.2 |
| 37.5° | 14338.6 | 14386.3 | 14371.6 | 14118.5 | 14243.2 | 14907.3 | 15204.5 | 15013.7 | 14720.2 | 13579.1 | 8354.4 |
| 40° | 14481.7 | 14514.7 | 14441.4 | 14738.6 | 15094.4 | 15850.3 | 16925.3 | 16609.8 | 16499.7 | 15233.9 | 9554.2 |
| 42.5° | 14562.4 | 14536.8 | 14536.8 | 15050.4 | 15589.8 | 17108.8 | 18587.4 | 18378.2 | 18293.9 | 16995.0 | 10941.1 |
| 45° | 14213.9 | 13964.4 | 14232.2 | 14929.3 | 16015.4 | 17728.8 | 19915.6 | 20205.4 | 20084.4 | 19090.0 | 12562.8 |
| 47.5° | 12911.4 | 13065.5 | 13215.9 | 14147.8 | 15498.0 | 17538.0 | 20730.1 | 21717.1 | 21940.9 | 20851.2 | 13626.8 |
| 50° | 10941.1 | 10908.1 | 11219.9 | 12394.0 | 14034.1 | 16716.2 | 20572.3 | 22153.7 | 22561.0 | 21379.5 | 13850.6 |
| 52.5° | 7958.2 | 8200.3 | 8537.9 | 9704.6 | 11649.2 | 14588.1 | 18536.0 | 21027.3 | 21570.3 | 20730.1 | 13703.9 |
| 55° | 4634.0 | 4366.2 | 5125.7 | 6112.6 | 7947.2 | 11003.5 | 15670.5 | 18638.7 | 19644.1 | 19548.7 | 12962.7 |
| 57.5° | 1856.5 | 1797.8 | 2058.3 | 2773.8 | 4146.0 | 6820.8 | 11396.1 | 15314.6 | 16925.3 | 17904.9 | 11392.4 |
| 60° | 814.5 | 796.2 | 935.6 | 1130.1 | 1695.1 | 3144.4 | 6233.7 | 9524.8 | 11205.3 | 12511.4 | 7840.7 |
| 62.5° | 587.0 | 579.7 | 649.4 | 719.1 | 895.2 | 1368.6 | 2619.7 | 3837.8 | 4784.4 | 5778.7 | 3511.3 |
| 65° | 473.3 | 491.7 | 539.3 | 576.0 | 660.4 | 759.5 | 924.6 | 1067.7 | 1309.8 | 1357.5 | 774.2 |
| 67.5° | 385.2 | 399.9 | 444.0 | 484.3 | 499.0 | 410.9 | 425.6 | 374.2 | 374.2 | 333.9 | 267.8 |
| 70° | 282.5 | 286.2 | 337.6 | 385.2 | 308.2 | 165.1 | 289.9 | 289.9 | 260.5 | 249.5 | 227.5 |
| 72.5° | 209.1 | 212.8 | 253.2 | 238.5 | 121.1 | 102.7 | 212.8 | 234.8 | 212.8 | 201.8 | 183.5 |
| 75° | 154.1 | 157.8 | 132.1 | 55.0 | 51.4 | 66.0 | 124.7 | 161.4 | 154.1 | 150.4 | 139.4 |
| 77.5° | 29.4 | 22.0 | 18.3 | 25.7 | 36.7 | 55.0 | 80.7 | 99.1 | 102.7 | 110.1 | 102.7 |
| 80° | 3.7 | 3.7 | 11.0 | 22.0 | 40.4 | 58.7 | 84.4 | 95.4 | 99.1 | 102.7 | 95.4 |
| 82.5° | 0.0 | 3.7 | 11.0 | 22.0 | 40.4 | 55.0 | 73.4 | 84.4 | 91.7 | 95.4 | 91.7 |
| 85° | 0.0 | 3.7 | 7.3 | 18.3 | 33.0 | 40.4 | 36.7 | 25.7 | 22.0 | 25.7 | 18.3 |
| 87.5° | 0.0 | 0.0 | 3.7 | 3.7 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2311.5 | 2311.5 | 2311.5 | 2311.5 | 2311.5 | 2311.5 | 2311.5 | 2311.5 | 2311.5 | 2311.5 | 2311.5 |
| 2.5° | 2340.9 | 2326.2 | 2274.8 | 2219.8 | 2172.1 | 2194.1 | 2172.1 | 2153.7 | 2161.1 | 2153.7 | 2146.4 |
| 5° | 2469.3 | 2403.2 | 2293.2 | 2245.5 | 2205.1 | 2201.4 | 2190.4 | 2186.8 | 2190.4 | 2190.4 | 2157.4 |
| 7.5° | 2590.3 | 2483.9 | 2366.5 | 2315.2 | 2267.5 | 2271.1 | 2245.5 | 2245.5 | 2241.8 | 2223.4 | 2216.1 |
| 10° | 2773.8 | 2630.7 | 2480.3 | 2388.5 | 2329.8 | 2318.8 | 2293.2 | 2267.5 | 2267.5 | 2267.5 | 2230.8 |
| 12.5° | 2975.6 | 2795.8 | 2590.3 | 2483.9 | 2414.2 | 2359.2 | 2318.8 | 2311.5 | 2271.1 | 2263.8 | 2245.5 |
| 15° | 3151.7 | 2924.2 | 2663.7 | 2517.0 | 2428.9 | 2355.5 | 2293.2 | 2252.8 | 2234.4 | 2223.4 | 2208.8 |
| 17.5° | 3324.2 | 3034.3 | 2704.1 | 2517.0 | 2421.6 | 2337.2 | 2271.1 | 2234.4 | 2190.4 | 2197.8 | 2168.4 |
| 20° | 3555.3 | 3151.7 | 2715.1 | 2469.3 | 2351.9 | 2271.1 | 2183.1 | 2164.7 | 2139.1 | 2117.0 | 2124.4 |
| 22.5° | 3779.1 | 3236.1 | 2682.1 | 2410.6 | 2241.8 | 2146.4 | 2102.4 | 2080.3 | 2069.3 | 2051.0 | 2025.3 |
| 25° | 3980.9 | 3327.8 | 2630.7 | 2304.2 | 2124.4 | 2054.7 | 2014.3 | 2010.6 | 1985.0 | 1985.0 | 1937.3 |
| 27.5° | 4186.4 | 3360.8 | 2542.6 | 2179.4 | 2021.6 | 1981.3 | 1962.9 | 1955.6 | 1944.6 | 1918.9 | 1885.9 |
| 30° | 4421.2 | 3371.9 | 2414.2 | 2051.0 | 1929.9 | 1885.9 | 1911.6 | 1929.9 | 1882.2 | 1834.5 | 1849.2 |
| 32.5° | 4615.7 | 3346.2 | 2260.1 | 1929.9 | 1863.9 | 1841.9 | 1893.2 | 1911.6 | 1856.5 | 1805.2 | 1779.5 |
| 35° | 4850.5 | 3283.8 | 2109.7 | 1834.5 | 1797.8 | 1841.9 | 1885.9 | 1885.9 | 1775.8 | 1713.4 | 1698.8 |
| 37.5° | 5206.4 | 3214.1 | 1970.3 | 1753.8 | 1728.1 | 1819.8 | 1878.6 | 1838.2 | 1665.7 | 1588.7 | 1570.4 |
| 40° | 5588.0 | 3170.1 | 1834.5 | 1673.1 | 1691.4 | 1783.2 | 1816.2 | 1691.4 | 1515.3 | 1467.6 | 1452.9 |
| 42.5° | 6142.0 | 3082.0 | 1713.4 | 1603.4 | 1658.4 | 1731.8 | 1731.8 | 1508.0 | 1441.9 | 1416.3 | 1412.6 |
| 45° | 6831.8 | 3019.6 | 1607.0 | 1544.7 | 1610.7 | 1629.1 | 1570.4 | 1412.6 | 1364.9 | 1357.5 | 1361.2 |
| 47.5° | 7169.3 | 2898.5 | 1497.0 | 1475.0 | 1522.7 | 1526.3 | 1372.2 | 1335.5 | 1295.2 | 1284.2 | 1276.8 |
| 50° | 7117.9 | 2682.1 | 1353.9 | 1383.2 | 1449.3 | 1412.6 | 1251.1 | 1258.5 | 1221.8 | 1218.1 | 1199.8 |
| 52.5° | 6758.4 | 2340.9 | 1210.8 | 1280.5 | 1353.9 | 1247.5 | 1152.1 | 1144.7 | 1144.7 | 1097.0 | 1078.7 |
| 55° | 5991.6 | 1885.9 | 1038.3 | 1126.4 | 1214.5 | 1049.3 | 1023.7 | 1016.3 | 998.0 | 954.0 | 942.9 |
| 57.5° | 4744.1 | 1383.2 | 781.5 | 876.9 | 1031.0 | 891.6 | 887.9 | 854.9 | 807.2 | 774.2 | 774.2 |
| 60° | 2821.5 | 796.2 | 491.7 | 535.7 | 682.4 | 722.8 | 803.5 | 788.8 | 708.1 | 656.8 | 642.1 |
| 62.5° | 1287.8 | 410.9 | 311.9 | 319.2 | 366.9 | 469.6 | 631.1 | 730.1 | 616.4 | 528.3 | 521.0 |
| 65° | 432.9 | 304.5 | 256.8 | 245.8 | 253.2 | 282.5 | 377.9 | 517.3 | 491.7 | 407.3 | 392.6 |
| 67.5° | 264.2 | 271.5 | 242.2 | 223.8 | 223.8 | 220.1 | 216.5 | 234.8 | 289.9 | 282.5 | 286.2 |
| 70° | 227.5 | 249.5 | 223.8 | 201.8 | 194.5 | 183.5 | 154.1 | 128.4 | 110.1 | 128.4 | 135.8 |
| 72.5° | 183.5 | 198.1 | 190.8 | 172.4 | 154.1 | 139.4 | 110.1 | 84.4 | 62.4 | 55.0 | 55.0 |
| 75° | 135.8 | 146.8 | 154.1 | 132.1 | 117.4 | 99.1 | 80.7 | 55.0 | 33.0 | 22.0 | 22.0 |
| 77.5° | 99.1 | 110.1 | 113.7 | 102.7 | 88.1 | 69.7 | 51.4 | 36.7 | 18.3 | 7.3 | 7.3 |
| 80° | 84.4 | 99.1 | 110.1 | 102.7 | 91.7 | 66.0 | 47.7 | 25.7 | 14.7 | 3.7 | 3.7 |
| 82.5° | 80.7 | 99.1 | 110.1 | 99.1 | 88.1 | 62.4 | 47.7 | 29.4 | 11.0 | 3.7 | 3.7 |
| 85° | 18.3 | 25.7 | 33.0 | 40.4 | 47.7 | 47.7 | 36.7 | 22.0 | 11.0 | 3.7 | 3.7 |
| 87.5° | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 3.7 | 3.7 | 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)