

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: P528676

Luminaire Tested: **GALN-SA3D-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-735-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18200 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

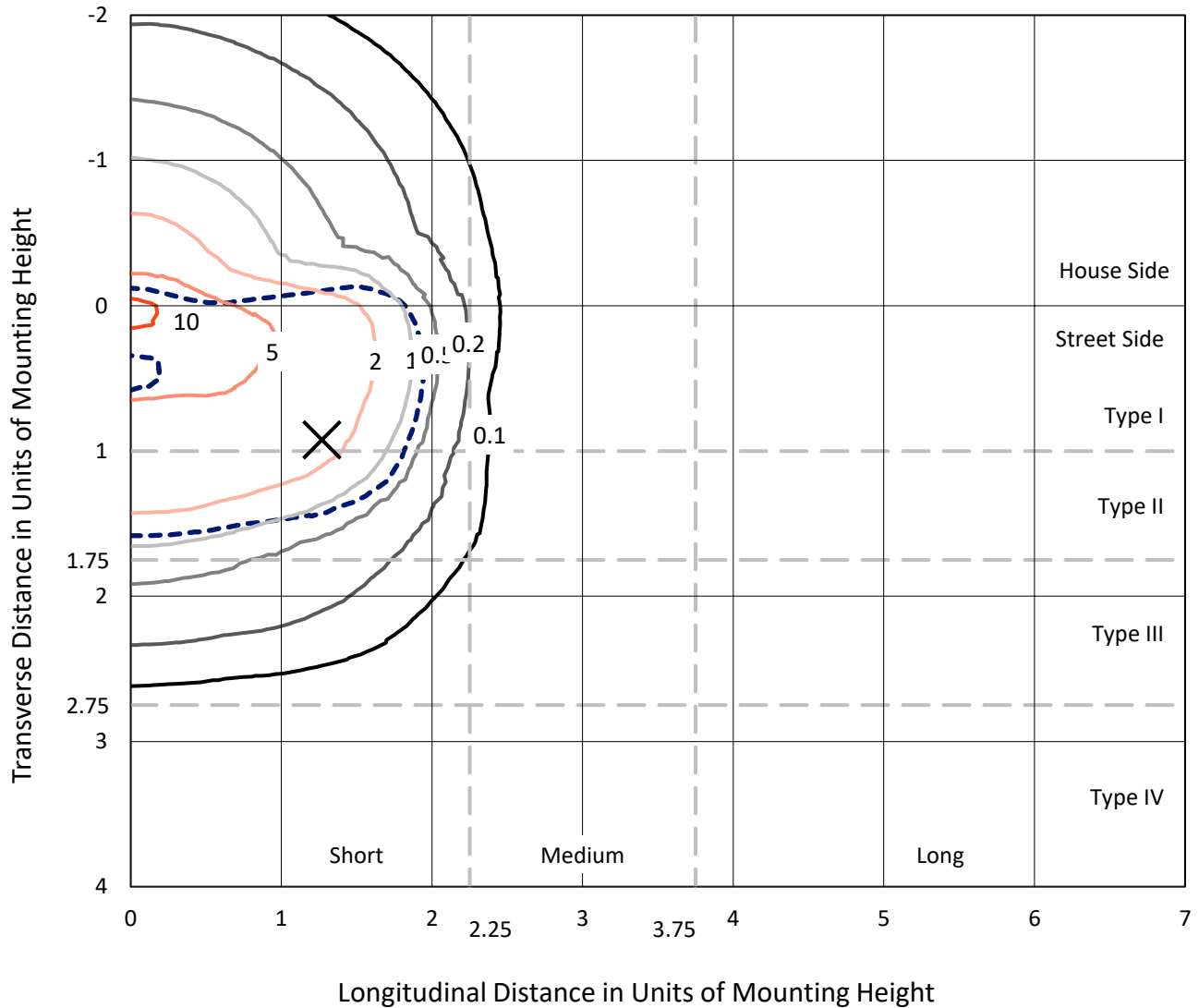
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528676
 CATALOG NUMBER: GALN-SA3D-735-U-SL3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

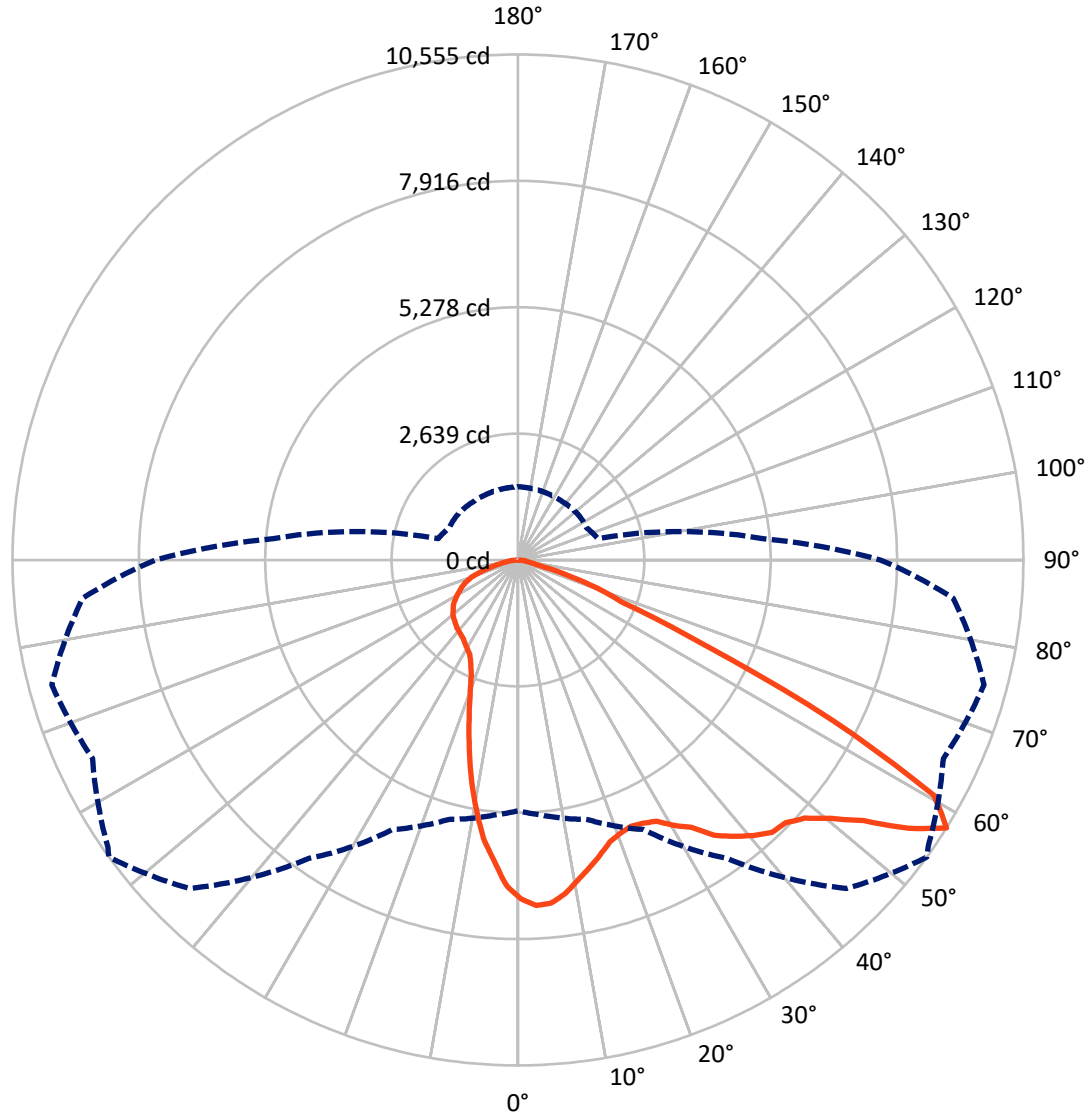
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Short - N/A

REPORT NUMBER: P528676
CATALOG NUMBER: GALN-SA3D-735-U-SL3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P528676
 CATALOG NUMBER: GALN-SA3D-735-U-SL3-GRSWH

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5035.1 | 0.0 | 5035.1 |
| | % Fixture | 27.7 | 0.0 | 27.7 |
| Street Side | Lumens | 13164.9 | 0.0 | 13164.9 |
| | % Fixture | 72.3 | 0.0 | 72.3 |
| Total | Lumens | 18200.0 | 0.0 | 18200.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 610.1 | 3.4 |
| 10°-20° | 1412.5 | 7.8 |
| 20°-30° | 1984.6 | 10.9 |
| 30°-40° | 2774.6 | 15.2 |
| 40°-50° | 3756.2 | 20.6 |
| 50°-60° | 4575.2 | 25.1 |
| 60°-70° | 2383.0 | 13.1 |
| 70°-80° | 610.6 | 3.4 |
| 80°-90° | 93.1 | 0.5 |
| 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° | 18200.0 | 100.0 |
| 0°-180° | 18200.0 | 100.0 |

Coefficient of Utilization



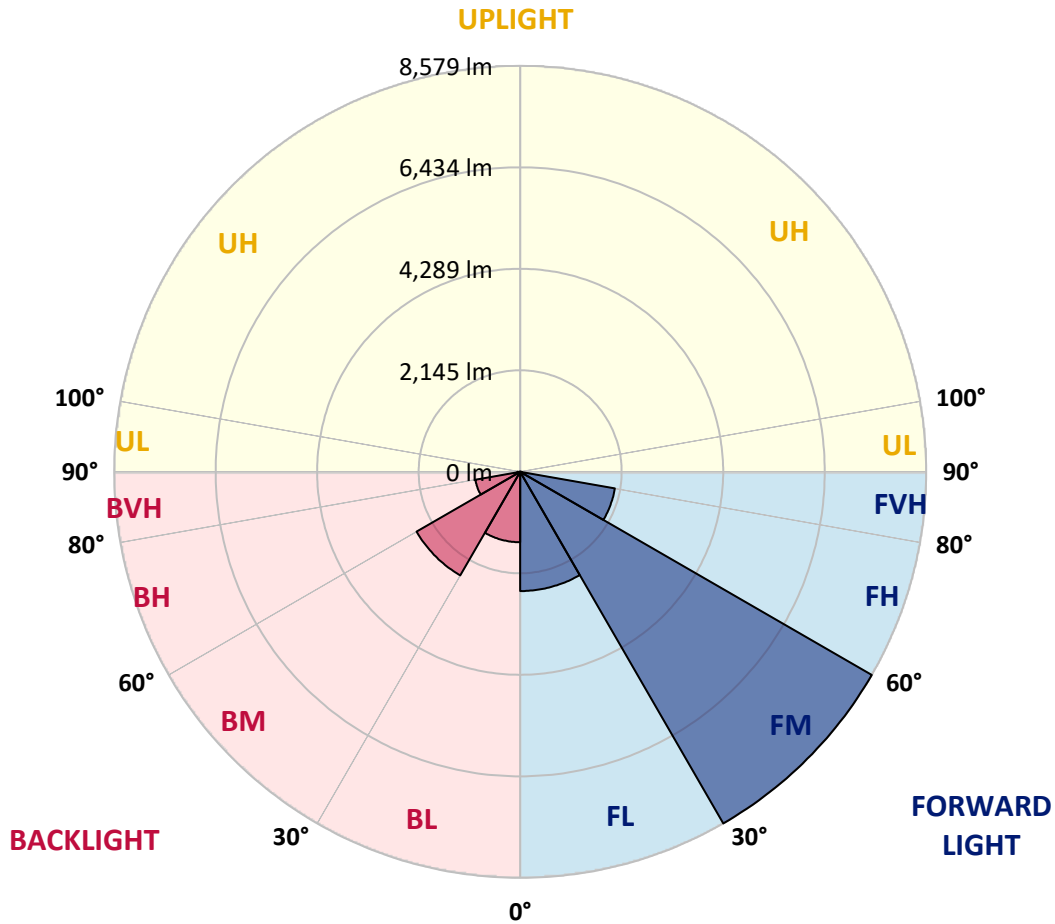
REPORT NUMBER: P528676
 CATALOG NUMBER: GALN-SA3D-735-U-SL3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2519.1 | 13.8 | | | |
| FM (30°-60°) | 8578.9 | 47.1 | | | |
| FH (60°-80°) | 2031.6 | 11.2 | | | G2/5000 |
| FVH (80°-90°) | 35.2 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1488.1 | 8.2 | B3/2500 | | |
| BM (30°-60°) | 2527.1 | 13.9 | B3/5000 | | |
| BH (60°-80°) | 962.0 | 5.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 58.0 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type II Short





REPORT NUMBER: P528676

CATALOG NUMBER: GALN-SA3D-735-U-SL3-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|--------|---------|--------|
| 0° | 7074.1 | 7074.1 | 7074.1 | 7074.1 | 7074.1 | 7074.1 | 7074.1 | 7074.1 | 7074.1 | 7074.1 | 7074.1 |
| 2.5° | 7275.3 | 7247.2 | 7251.9 | 7289.3 | 7242.6 | 7223.8 | 7223.8 | 7132.6 | 7139.6 | 7076.5 | 7060.1 |
| 5° | 7106.9 | 7041.4 | 7085.8 | 7142.0 | 7151.3 | 7170.0 | 7200.5 | 7177.1 | 7111.6 | 7043.7 | 6933.8 |
| 7.5° | 6667.1 | 6725.6 | 6741.9 | 6781.7 | 6865.9 | 6943.1 | 7039.0 | 6973.5 | 6971.2 | 6903.4 | 6837.9 |
| 10° | 6281.1 | 6246.0 | 6334.9 | 6393.4 | 6533.7 | 6662.4 | 6809.8 | 6802.8 | 6837.9 | 6760.7 | 6648.4 |
| 12.5° | 5897.4 | 5869.4 | 5911.5 | 6044.8 | 6241.3 | 6428.5 | 6603.9 | 6538.4 | 6725.6 | 6711.5 | 6470.6 |
| 15° | 5490.4 | 5511.5 | 5572.3 | 5696.3 | 5953.6 | 6178.2 | 6400.4 | 6402.7 | 6568.8 | 6625.0 | 6302.2 |
| 17.5° | 5205.0 | 5181.6 | 5258.8 | 5443.6 | 5672.9 | 5941.9 | 6194.5 | 6246.0 | 6501.0 | 6533.7 | 6250.7 |
| 20° | 4992.1 | 5024.9 | 5125.5 | 5219.0 | 5483.4 | 5808.6 | 6094.0 | 6112.7 | 6487.0 | 6575.9 | 6168.8 |
| 22.5° | 4940.7 | 4921.9 | 4954.7 | 5106.8 | 5324.3 | 5677.6 | 6040.1 | 6110.3 | 6484.6 | 6561.8 | 6014.4 |
| 25° | 4886.9 | 4947.7 | 4945.3 | 5097.4 | 5256.5 | 5572.3 | 6084.6 | 6161.8 | 6608.6 | 6634.3 | 6035.5 |
| 27.5° | 5008.5 | 5001.5 | 5067.0 | 5078.7 | 5275.2 | 5600.4 | 6178.2 | 6236.7 | 6814.5 | 6793.4 | 6051.8 |
| 30° | 5130.1 | 5095.1 | 5134.8 | 5272.8 | 5364.1 | 5761.8 | 6435.5 | 6430.8 | 7081.1 | 7067.1 | 6103.3 |
| 32.5° | 5279.9 | 5263.5 | 5289.2 | 5410.9 | 5565.3 | 5977.0 | 6653.1 | 6791.1 | 7352.5 | 7441.4 | 6281.1 |
| 35° | 5307.9 | 5375.8 | 5436.6 | 5600.4 | 5820.3 | 6325.5 | 7062.4 | 7177.1 | 7666.0 | 7944.4 | 6620.3 |
| 37.5° | 5485.7 | 5511.5 | 5654.2 | 5944.2 | 6145.4 | 6791.1 | 7322.1 | 7394.6 | 7951.4 | 8267.2 | 6978.2 |
| 40° | 5675.2 | 5705.6 | 5920.8 | 6225.0 | 6501.0 | 7095.2 | 7565.4 | 7588.8 | 8042.6 | 8515.2 | 7212.2 |
| 42.5° | 5932.5 | 5960.6 | 6173.5 | 6554.8 | 6924.4 | 7354.9 | 7780.6 | 7806.3 | 8035.6 | 8800.6 | 7584.1 |
| 45° | 6199.2 | 6267.1 | 6517.4 | 6950.1 | 7282.3 | 7659.0 | 7829.7 | 7935.0 | 8101.1 | 9055.5 | 7885.9 |
| 47.5° | 6573.5 | 6636.7 | 6842.5 | 7266.0 | 7654.3 | 7925.6 | 8056.6 | 8159.6 | 8257.8 | 9277.8 | 8080.0 |
| 50° | 6971.2 | 6982.9 | 7233.2 | 7616.9 | 7902.3 | 8227.4 | 8480.1 | 8515.2 | 8463.7 | 9535.1 | 8409.9 |
| 52.5° | 7263.6 | 7301.0 | 7495.2 | 7869.5 | 8295.3 | 8695.3 | 9041.5 | 9078.9 | 8978.3 | 9631.0 | 8522.2 |
| 55° | 6779.4 | 6758.3 | 7074.1 | 7572.4 | 8559.6 | 9392.4 | 9895.4 | 9923.4 | 9352.6 | 9928.1 | 8889.5 |
| 57.5° | 5240.1 | 5340.7 | 5609.7 | 6210.9 | 7605.2 | 9701.2 | 10555.1 | 10454.5 | 9801.8 | 10077.8 | 9123.4 |
| 60° | 3808.4 | 3785.0 | 3965.2 | 4367.5 | 5731.4 | 8360.8 | 9979.6 | 10082.5 | 9434.5 | 9083.6 | 7523.3 |
| 62.5° | 3102.0 | 3069.2 | 3083.2 | 3097.3 | 3698.5 | 5548.9 | 7387.6 | 7385.3 | 7266.0 | 6529.1 | 5074.0 |
| 65° | 2479.7 | 2556.9 | 2563.9 | 2669.2 | 2746.4 | 3314.8 | 4281.0 | 4510.2 | 3927.7 | 3221.3 | 2337.0 |
| 67.5° | 1869.1 | 1841.1 | 1934.6 | 2308.9 | 2454.0 | 2393.1 | 2337.0 | 2362.7 | 1679.6 | 1211.8 | 1141.6 |
| 70° | 1101.8 | 1090.1 | 1202.4 | 1609.5 | 2021.2 | 1901.9 | 1761.5 | 1763.9 | 1153.3 | 846.8 | 942.7 |
| 72.5° | 603.5 | 601.2 | 624.6 | 816.4 | 1148.6 | 1193.1 | 1057.4 | 1090.1 | 687.8 | 685.4 | 736.9 |
| 75° | 336.9 | 329.8 | 322.8 | 360.3 | 414.1 | 437.5 | 446.8 | 451.5 | 472.5 | 528.7 | 549.7 |
| 77.5° | 124.0 | 119.3 | 119.3 | 138.0 | 175.4 | 219.9 | 278.4 | 283.1 | 334.5 | 383.6 | 404.7 |
| 80° | 42.1 | 46.8 | 63.2 | 86.6 | 117.0 | 156.7 | 189.5 | 194.2 | 236.3 | 269.0 | 276.0 |
| 82.5° | 25.7 | 28.1 | 42.1 | 60.8 | 84.2 | 109.9 | 140.4 | 142.7 | 175.4 | 196.5 | 205.9 |
| 85° | 11.7 | 14.0 | 23.4 | 37.4 | 53.8 | 72.5 | 74.9 | 74.9 | 72.5 | 74.9 | 70.2 |
| 87.5° | 0.0 | 0.0 | 4.7 | 4.7 | 4.7 | 7.0 | 9.4 | 7.0 | 11.7 | 14.0 | 14.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P528676

CATALOG NUMBER: GALN-SA3D-735-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7074.1 | 7074.1 | 7074.1 | 7074.1 | 7074.1 | 7074.1 | 7074.1 | 7074.1 | 7074.1 | 7074.1 | 7074.1 |
| 2.5° | 7011.0 | 6985.2 | 6905.7 | 6835.5 | 6814.5 | 6720.9 | 6582.9 | 6599.2 | 6498.7 | 6545.4 | 6496.3 |
| 5° | 6915.1 | 6828.5 | 6625.0 | 6538.4 | 6311.5 | 6208.6 | 6138.4 | 5963.0 | 5881.1 | 5864.7 | 5794.5 |
| 7.5° | 6669.4 | 6615.6 | 6360.6 | 6126.7 | 5885.8 | 5679.9 | 5415.5 | 5235.4 | 5106.8 | 5071.7 | 4968.7 |
| 10° | 6475.3 | 6356.0 | 6002.7 | 5647.1 | 5303.3 | 4945.3 | 4601.5 | 4332.4 | 4201.4 | 4049.4 | 3997.9 |
| 12.5° | 6283.4 | 6103.3 | 5626.1 | 5169.9 | 4725.4 | 4274.0 | 3857.6 | 3530.0 | 3244.6 | 3176.8 | 3153.4 |
| 15° | 6164.1 | 5850.7 | 5289.2 | 4739.5 | 4107.9 | 3518.4 | 3102.0 | 2886.7 | 2711.3 | 2638.8 | 2690.2 |
| 17.5° | 6007.4 | 5642.5 | 4966.4 | 4234.2 | 3539.4 | 2996.7 | 2648.1 | 2514.8 | 2451.6 | 2458.6 | 2437.6 |
| 20° | 5810.9 | 5446.0 | 4543.0 | 3775.7 | 3031.8 | 2599.0 | 2400.2 | 2351.0 | 2360.4 | 2376.8 | 2369.7 |
| 22.5° | 5670.5 | 5207.3 | 4236.5 | 3307.8 | 2620.0 | 2379.1 | 2297.2 | 2262.1 | 2292.5 | 2306.6 | 2294.9 |
| 25° | 5562.9 | 5003.8 | 3864.6 | 2893.8 | 2381.4 | 2255.1 | 2217.7 | 2215.3 | 2262.1 | 2280.8 | 2269.1 |
| 27.5° | 5464.7 | 4814.3 | 3495.0 | 2577.9 | 2222.4 | 2159.2 | 2147.5 | 2175.6 | 2206.0 | 2224.7 | 2241.1 |
| 30° | 5406.2 | 4669.3 | 3148.7 | 2313.6 | 2142.8 | 2112.4 | 2091.4 | 2117.1 | 2133.5 | 2152.2 | 2142.8 |
| 32.5° | 5462.3 | 4566.4 | 2814.2 | 2163.9 | 2077.3 | 2046.9 | 2075.0 | 2058.6 | 2086.7 | 2103.1 | 2077.3 |
| 35° | 5637.8 | 4475.1 | 2575.6 | 2084.3 | 2002.5 | 2014.2 | 2018.8 | 2011.8 | 2023.5 | 2009.5 | 2039.9 |
| 37.5° | 5810.9 | 4442.4 | 2355.7 | 2016.5 | 1967.4 | 1967.4 | 1962.7 | 1948.7 | 1972.1 | 1967.4 | 1981.4 |
| 40° | 6030.8 | 4463.4 | 2168.6 | 1944.0 | 1934.6 | 1929.9 | 1911.2 | 1908.9 | 1899.5 | 1901.9 | 1906.6 |
| 42.5° | 6222.6 | 4510.2 | 2060.9 | 1897.2 | 1904.2 | 1913.6 | 1878.5 | 1850.4 | 1862.1 | 1838.7 | 1838.7 |
| 45° | 6426.1 | 4552.3 | 1965.0 | 1864.4 | 1857.4 | 1855.1 | 1827.0 | 1810.6 | 1801.3 | 1803.6 | 1824.7 |
| 47.5° | 6746.6 | 4613.2 | 1892.5 | 1820.0 | 1824.7 | 1789.6 | 1782.6 | 1761.5 | 1770.9 | 1784.9 | 1787.2 |
| 50° | 6973.5 | 4741.8 | 1836.4 | 1768.5 | 1784.9 | 1761.5 | 1719.4 | 1710.0 | 1710.0 | 1733.4 | 1728.8 |
| 52.5° | 7132.6 | 4921.9 | 1782.6 | 1712.4 | 1719.4 | 1700.7 | 1686.7 | 1665.6 | 1651.6 | 1684.3 | 1700.7 |
| 55° | 7619.2 | 5221.4 | 1768.5 | 1665.6 | 1663.3 | 1644.5 | 1618.8 | 1597.8 | 1590.7 | 1595.4 | 1628.2 |
| 57.5° | 7572.4 | 5127.8 | 1724.1 | 1583.7 | 1579.0 | 1553.3 | 1527.6 | 1520.6 | 1518.2 | 1522.9 | 1532.3 |
| 60° | 6147.8 | 3787.4 | 1539.3 | 1490.2 | 1483.1 | 1478.5 | 1452.7 | 1424.7 | 1410.6 | 1424.7 | 1413.0 |
| 62.5° | 4068.1 | 2535.8 | 1356.8 | 1377.9 | 1382.5 | 1370.8 | 1328.7 | 1300.7 | 1305.3 | 1321.7 | 1296.0 |
| 65° | 1997.8 | 1490.2 | 1230.5 | 1286.6 | 1291.3 | 1258.6 | 1218.8 | 1186.0 | 1169.7 | 1183.7 | 1172.0 |
| 67.5° | 1141.6 | 1139.3 | 1127.6 | 1186.0 | 1183.7 | 1150.9 | 1087.8 | 1059.7 | 1031.6 | 1036.3 | 1029.3 |
| 70° | 968.5 | 987.2 | 1010.6 | 1045.7 | 1043.3 | 1005.9 | 931.1 | 910.0 | 870.2 | 865.6 | 853.9 |
| 72.5° | 762.6 | 795.4 | 846.8 | 872.6 | 851.5 | 804.7 | 755.6 | 720.5 | 685.4 | 664.4 | 671.4 |
| 75° | 566.1 | 612.9 | 641.0 | 657.4 | 624.6 | 598.9 | 559.1 | 517.0 | 474.9 | 456.2 | 449.2 |
| 77.5° | 411.7 | 425.8 | 451.5 | 463.2 | 442.1 | 416.4 | 393.0 | 350.9 | 311.1 | 285.4 | 278.4 |
| 80° | 287.7 | 297.1 | 315.8 | 315.8 | 315.8 | 304.1 | 273.7 | 231.6 | 205.9 | 182.5 | 177.8 |
| 82.5° | 201.2 | 210.5 | 229.3 | 219.9 | 217.6 | 203.5 | 184.8 | 152.1 | 124.0 | 107.6 | 102.9 |
| 85° | 70.2 | 77.2 | 93.6 | 112.3 | 119.3 | 117.0 | 105.3 | 84.2 | 65.5 | 53.8 | 49.1 |
| 87.5° | 16.4 | 16.4 | 18.7 | 16.4 | 16.4 | 18.7 | 16.4 | 16.4 | 16.4 | 11.7 | 9.4 |
| 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)