

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: P532911

Luminaire Tested: **GALN-SA8B-740-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-740-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26820 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

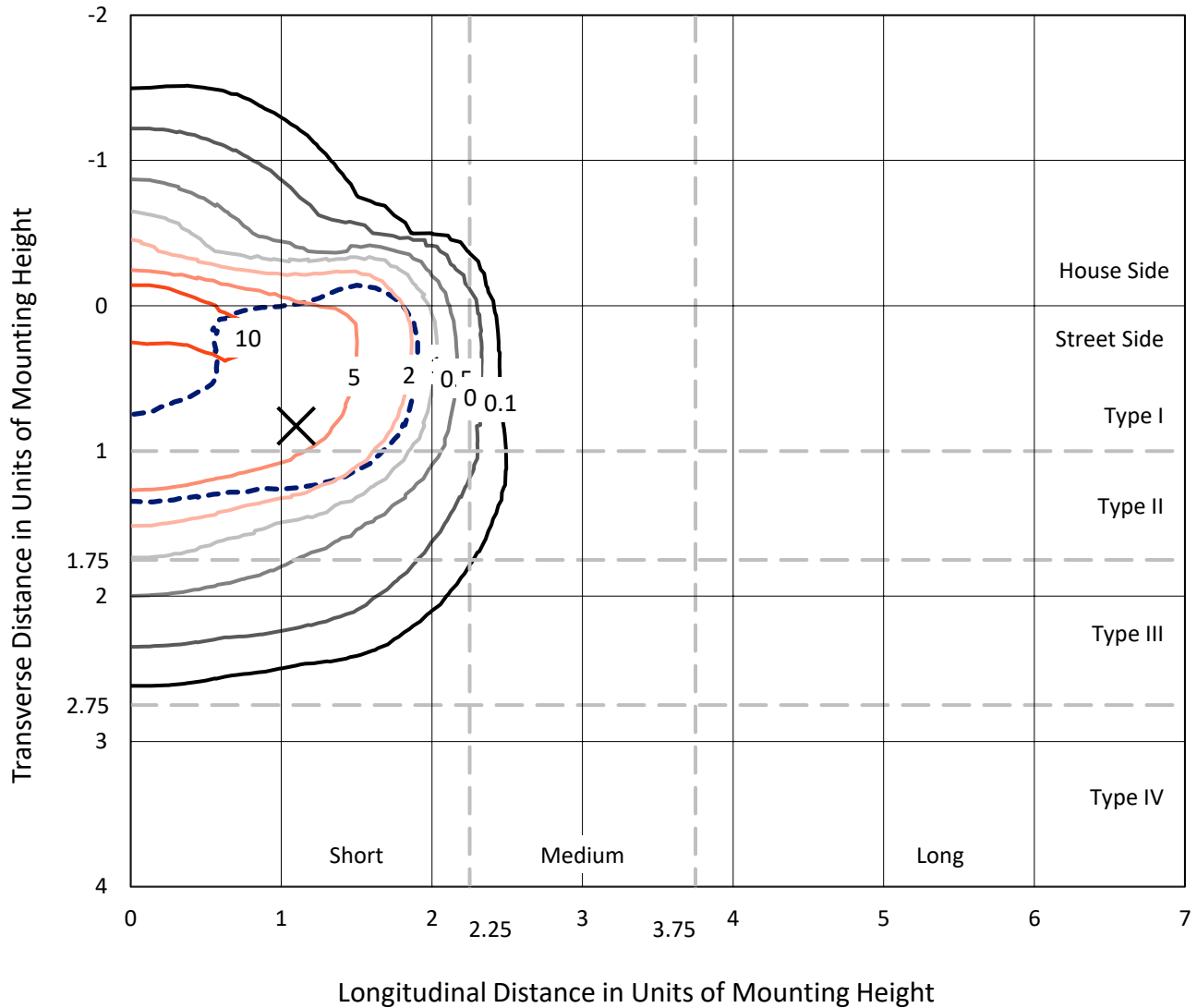
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

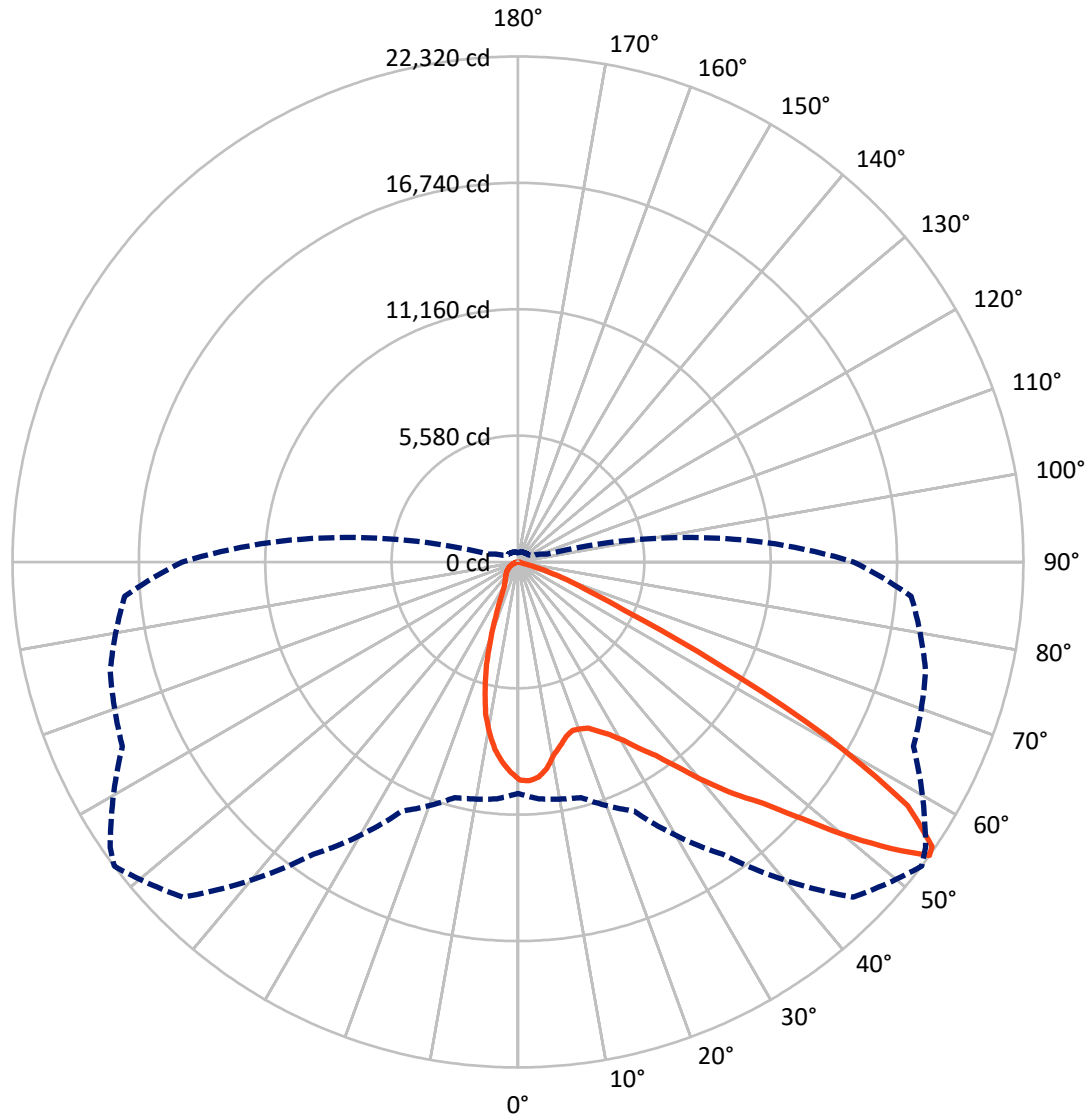
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4437.4 | 0.0 | 4437.4 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 22382.6 | 0.0 | 22382.6 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 26820.0 | 0.0 | 26820.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 826.5 | 3.1 |
| 10°-20° | 1894.9 | 7.1 |
| 20°-30° | 2693.1 | 10.0 |
| 30°-40° | 4156.2 | 15.5 |
| 40°-50° | 6516.5 | 24.3 |
| 50°-60° | 7569.8 | 28.2 |
| 60°-70° | 2860.3 | 10.7 |
| 70°-80° | 272.0 | 1.0 |
| 80°-90° | 30.6 | 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° | 26820.0 | 100.0 |
| 0°-180° | 26820.0 | 100.0 |

Coefficient of Utilization



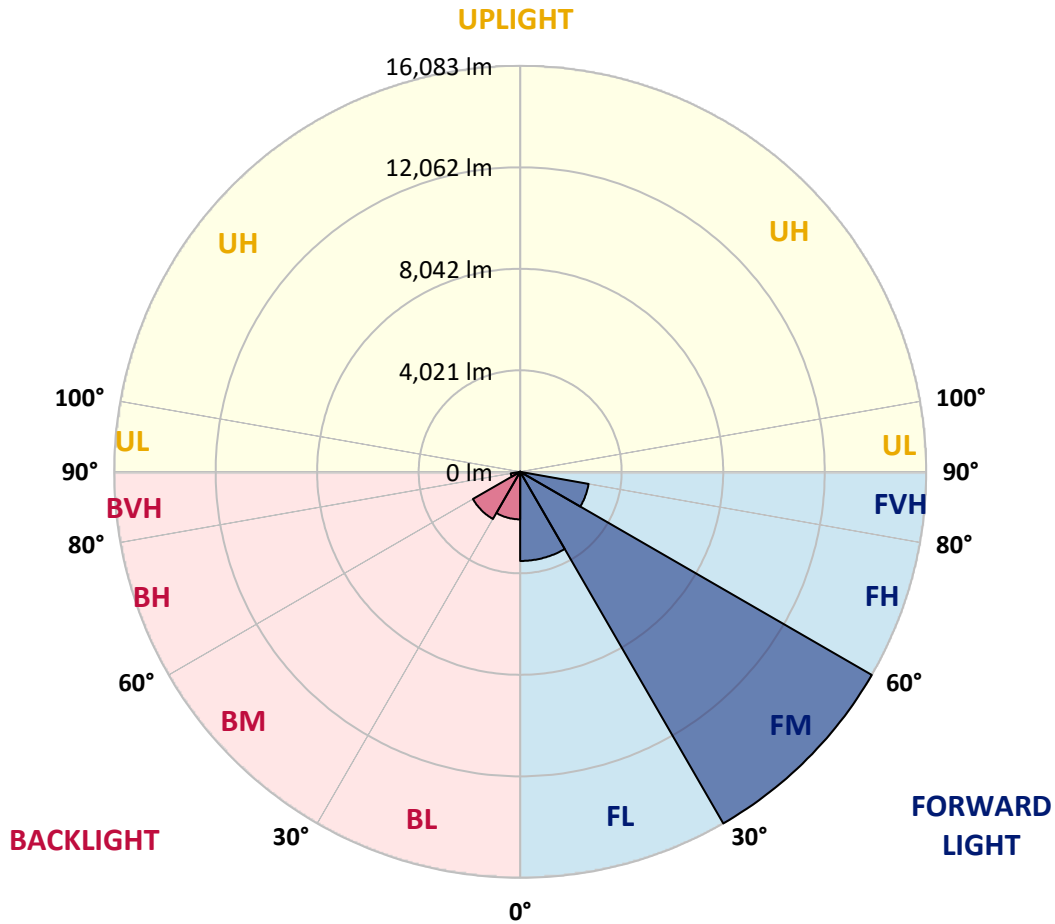
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3531.5 | 13.2 | | | |
| FM (30°-60°) | 16083.1 | 60.0 | | | |
| FH (60°-80°) | 2752.1 | 10.3 | | | G2/5000 |
| FVH (80°-90°) | 15.8 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1883.1 | 7.0 | B3/2500 | | |
| BM (30°-60°) | 2159.4 | 8.1 | B2/2500 | | |
| BH (60°-80°) | 380.2 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 14.8 | 0.1 | | | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9633.3 | 9633.3 | 9633.3 | 9633.3 | 9633.3 | 9633.3 | 9633.3 | 9633.3 | 9633.3 | 9633.3 | 9633.3 |
| 2.5° | 9583.3 | 9498.4 | 9583.3 | 9593.3 | 9653.3 | 9708.2 | 9673.3 | 9753.2 | 9708.2 | 9658.3 | 9643.3 |
| 5° | 8808.9 | 8923.8 | 8928.8 | 9108.7 | 9068.7 | 9398.5 | 9543.4 | 9503.4 | 9748.2 | 9733.2 | 9698.2 |
| 7.5° | 8114.3 | 8069.4 | 8129.3 | 8339.2 | 8604.0 | 8983.7 | 9193.6 | 9188.6 | 9538.4 | 9788.2 | 9763.2 |
| 10° | 7469.8 | 7464.8 | 7589.7 | 7754.6 | 7979.4 | 8379.2 | 8669.0 | 8813.9 | 9358.5 | 9738.2 | 9793.2 |
| 12.5° | 7035.1 | 7015.1 | 7150.0 | 7284.9 | 7639.7 | 7949.5 | 8319.2 | 8389.2 | 9013.7 | 9563.3 | 9653.3 |
| 15° | 6750.3 | 6795.3 | 6805.3 | 7065.1 | 7289.9 | 7699.6 | 7989.4 | 8134.3 | 8853.8 | 9423.4 | 9768.2 |
| 17.5° | 6700.3 | 6760.3 | 6765.3 | 6980.1 | 7220.0 | 7564.7 | 7819.6 | 8014.4 | 8718.9 | 9493.4 | 9773.2 |
| 20° | 6800.3 | 6765.3 | 6795.3 | 6930.2 | 7165.0 | 7494.8 | 7864.5 | 7929.5 | 8674.0 | 9528.4 | 9828.2 |
| 22.5° | 7085.1 | 7075.1 | 7000.1 | 7110.0 | 7274.9 | 7619.7 | 7969.5 | 8069.4 | 8803.9 | 9708.2 | 9873.1 |
| 25° | 7399.8 | 7454.8 | 7384.9 | 7369.9 | 7484.8 | 7824.6 | 8289.2 | 8419.1 | 9238.6 | 10033.0 | 10013.0 |
| 27.5° | 7989.4 | 7934.5 | 7934.5 | 7864.5 | 7834.5 | 7999.4 | 8634.0 | 8848.8 | 9723.2 | 10452.7 | 10172.9 |
| 30° | 8554.0 | 8614.0 | 8569.0 | 8594.0 | 8394.2 | 8379.2 | 9123.6 | 9388.5 | 10582.6 | 11092.3 | 10512.7 |
| 32.5° | 9448.4 | 9368.5 | 9443.4 | 9378.5 | 9113.7 | 8843.8 | 9788.2 | 10063.0 | 11621.9 | 11826.8 | 11022.3 |
| 35° | 10192.9 | 10157.9 | 10477.7 | 10467.7 | 10038.0 | 9773.2 | 10492.7 | 10902.4 | 12346.4 | 12706.2 | 11621.9 |
| 37.5° | 11252.2 | 11187.2 | 11552.0 | 11726.8 | 11342.1 | 10947.4 | 11502.0 | 11976.7 | 13020.9 | 13410.7 | 12236.5 |
| 40° | 12341.4 | 12506.3 | 12996.0 | 13285.7 | 12876.0 | 12351.4 | 12736.1 | 12881.0 | 13470.6 | 13870.3 | 12656.2 |
| 42.5° | 13720.4 | 13960.3 | 14459.9 | 14709.8 | 14674.8 | 14105.2 | 13990.3 | 13985.3 | 13795.4 | 13740.4 | 12966.0 |
| 45° | 15044.5 | 14954.6 | 15724.1 | 16268.7 | 16708.4 | 16543.5 | 15199.4 | 15049.5 | 14310.0 | 13935.3 | 13045.9 |
| 47.5° | 15624.1 | 15594.1 | 16118.8 | 17088.1 | 18587.1 | 18791.9 | 16958.2 | 16378.6 | 15179.4 | 14754.7 | 13480.6 |
| 50° | 14874.6 | 15029.5 | 15549.2 | 16623.4 | 18921.8 | 20485.7 | 19116.7 | 18337.2 | 16193.7 | 15754.0 | 14509.9 |
| 52.5° | 12426.3 | 12531.3 | 13025.9 | 14390.0 | 17782.6 | 21485.0 | 21185.2 | 20735.6 | 18057.4 | 17327.9 | 16303.6 |
| 54° | 10217.9 | 10497.7 | 10767.5 | 12136.5 | 15754.0 | 20930.4 | 22319.5 | 21974.7 | 19271.6 | 18637.0 | 17432.9 |
| 55° | 8898.8 | 9063.7 | 9258.6 | 10622.6 | 14350.0 | 19991.1 | 22189.5 | 22219.5 | 20086.0 | 19046.7 | 18192.3 |
| 57.5° | 6500.5 | 6615.4 | 6415.5 | 7020.1 | 9853.1 | 16233.7 | 20295.9 | 21105.3 | 21185.2 | 19661.3 | 18657.0 |
| 60° | 4966.5 | 5016.5 | 4791.7 | 4886.6 | 6125.7 | 11142.2 | 15699.1 | 16673.4 | 19111.7 | 17183.0 | 15804.0 |
| 62.5° | 3852.3 | 3862.3 | 3857.3 | 4022.2 | 4222.1 | 6555.4 | 9818.2 | 10682.6 | 13175.8 | 12201.5 | 10732.5 |
| 65° | 2838.0 | 2793.1 | 2873.0 | 3372.7 | 3602.5 | 4122.1 | 5171.4 | 5801.0 | 7160.0 | 6045.8 | 4322.0 |
| 67.5° | 1838.7 | 1853.7 | 1933.7 | 2508.3 | 3087.8 | 3162.8 | 3182.8 | 3132.8 | 3137.8 | 1728.8 | 1084.2 |
| 70° | 1104.2 | 1129.2 | 1104.2 | 1419.0 | 2208.5 | 2268.4 | 2073.6 | 2023.6 | 1578.9 | 409.7 | 404.7 |
| 72.5° | 654.5 | 619.6 | 554.6 | 609.6 | 919.4 | 1099.2 | 989.3 | 984.3 | 619.6 | 239.8 | 239.8 |
| 75° | 274.8 | 249.8 | 204.9 | 184.9 | 244.8 | 234.8 | 234.8 | 209.9 | 164.9 | 159.9 | 149.9 |
| 77.5° | 55.0 | 55.0 | 40.0 | 45.0 | 60.0 | 70.0 | 84.9 | 84.9 | 99.9 | 99.9 | 94.9 |
| 80° | 0.0 | 5.0 | 15.0 | 30.0 | 45.0 | 65.0 | 74.9 | 74.9 | 84.9 | 84.9 | 70.0 |
| 82.5° | 0.0 | 5.0 | 15.0 | 30.0 | 40.0 | 60.0 | 74.9 | 74.9 | 84.9 | 89.9 | 74.9 |
| 85° | 0.0 | 5.0 | 15.0 | 25.0 | 40.0 | 50.0 | 50.0 | 45.0 | 35.0 | 30.0 | 20.0 |
| 87.5° | 0.0 | 0.0 | 5.0 | 10.0 | 5.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| 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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CATALOG NUMBER: GALN-SA8B-740-U-SL2-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9633.3 | 9633.3 | 9633.3 | 9633.3 | 9633.3 | 9633.3 | 9633.3 | 9633.3 | 9633.3 | 9633.3 | 9633.3 |
| 2.5° | 9678.3 | 9673.3 | 9553.3 | 9358.5 | 9313.5 | 9148.6 | 9128.6 | 9028.7 | 9083.7 | 8898.8 | 8878.8 |
| 5° | 9598.3 | 9538.4 | 9393.5 | 9268.5 | 8903.8 | 8644.0 | 8439.1 | 8189.3 | 8044.4 | 8069.4 | 7974.4 |
| 7.5° | 9713.2 | 9558.3 | 9303.5 | 8868.8 | 8424.1 | 7969.5 | 7724.6 | 7215.0 | 7030.1 | 6755.3 | 6715.3 |
| 10° | 9593.3 | 9478.4 | 9083.7 | 8364.2 | 7749.6 | 7095.1 | 6520.5 | 5955.9 | 5526.2 | 5341.3 | 5301.3 |
| 12.5° | 9583.3 | 9383.5 | 8723.9 | 7924.5 | 7035.1 | 6095.8 | 5261.3 | 4556.8 | 4132.1 | 3892.3 | 3837.3 |
| 15° | 9428.4 | 9188.6 | 8319.2 | 7245.0 | 6015.8 | 4846.6 | 3937.3 | 3257.7 | 2933.0 | 2793.1 | 2833.0 |
| 17.5° | 9443.4 | 9083.7 | 7914.5 | 6525.5 | 5011.5 | 3557.5 | 2688.1 | 2338.4 | 2253.4 | 2288.4 | 2288.4 |
| 20° | 9428.4 | 8848.8 | 7424.8 | 5696.0 | 3837.3 | 2468.3 | 1973.6 | 1848.7 | 1903.7 | 2013.6 | 1988.6 |
| 22.5° | 9348.5 | 8738.9 | 6975.1 | 4821.6 | 2823.0 | 1828.7 | 1583.9 | 1588.9 | 1673.8 | 1808.7 | 1838.7 |
| 25° | 9408.4 | 8494.1 | 6405.5 | 3937.3 | 2058.6 | 1459.0 | 1374.0 | 1409.0 | 1499.0 | 1598.9 | 1618.9 |
| 27.5° | 9363.5 | 8319.2 | 5811.0 | 3057.9 | 1504.0 | 1254.1 | 1249.1 | 1289.1 | 1329.1 | 1404.0 | 1404.0 |
| 30° | 9413.4 | 8159.3 | 5226.4 | 2273.4 | 1239.1 | 1149.2 | 1129.2 | 1159.2 | 1199.2 | 1214.2 | 1209.2 |
| 32.5° | 9598.3 | 8039.4 | 4551.8 | 1698.8 | 1094.2 | 1049.3 | 1049.3 | 1049.3 | 1044.3 | 1064.3 | 1069.3 |
| 35° | 10003.0 | 8059.4 | 3957.2 | 1314.1 | 999.3 | 964.3 | 949.3 | 929.4 | 919.4 | 929.4 | 934.3 |
| 37.5° | 10442.7 | 8049.4 | 3342.7 | 1119.2 | 929.4 | 899.4 | 864.4 | 834.4 | 829.4 | 839.4 | 824.4 |
| 40° | 10637.6 | 8144.3 | 2773.1 | 1004.3 | 864.4 | 829.4 | 774.5 | 749.5 | 754.5 | 764.5 | 754.5 |
| 42.5° | 10902.4 | 8174.3 | 2403.3 | 914.4 | 804.4 | 749.5 | 714.5 | 684.5 | 679.5 | 694.5 | 689.5 |
| 45° | 10897.4 | 8004.4 | 2013.6 | 864.4 | 749.5 | 689.5 | 644.6 | 619.6 | 619.6 | 629.6 | 634.6 |
| 47.5° | 11217.2 | 7979.4 | 1728.8 | 819.4 | 709.5 | 649.5 | 594.6 | 574.6 | 569.6 | 569.6 | 559.6 |
| 50° | 11961.7 | 8329.2 | 1508.9 | 769.5 | 659.5 | 604.6 | 559.6 | 534.6 | 514.6 | 504.6 | 499.7 |
| 52.5° | 13415.7 | 9418.4 | 1339.1 | 709.5 | 604.6 | 559.6 | 519.6 | 499.7 | 474.7 | 449.7 | 444.7 |
| 54° | 14824.7 | 10542.7 | 1329.1 | 659.5 | 559.6 | 529.6 | 494.7 | 484.7 | 454.7 | 419.7 | 409.7 |
| 55° | 15459.2 | 11197.2 | 1364.1 | 619.6 | 529.6 | 509.6 | 479.7 | 469.7 | 439.7 | 399.7 | 394.7 |
| 57.5° | 15983.9 | 11452.0 | 1344.1 | 514.6 | 479.7 | 474.7 | 449.7 | 434.7 | 399.7 | 344.8 | 334.8 |
| 60° | 12866.0 | 8659.0 | 964.3 | 454.7 | 439.7 | 429.7 | 409.7 | 399.7 | 354.8 | 294.8 | 289.8 |
| 62.5° | 8129.3 | 4981.5 | 614.6 | 399.7 | 384.7 | 369.7 | 344.8 | 334.8 | 294.8 | 234.8 | 219.8 |
| 65° | 3462.6 | 2063.6 | 414.7 | 354.8 | 329.8 | 304.8 | 284.8 | 269.8 | 234.8 | 174.9 | 169.9 |
| 67.5° | 899.4 | 734.5 | 344.8 | 309.8 | 274.8 | 239.8 | 224.8 | 199.9 | 159.9 | 119.9 | 114.9 |
| 70° | 404.7 | 369.7 | 289.8 | 259.8 | 219.8 | 184.9 | 164.9 | 139.9 | 104.9 | 79.9 | 74.9 |
| 72.5° | 239.8 | 234.8 | 219.8 | 194.9 | 164.9 | 139.9 | 119.9 | 94.9 | 70.0 | 45.0 | 45.0 |
| 75° | 149.9 | 144.9 | 149.9 | 134.9 | 114.9 | 104.9 | 89.9 | 65.0 | 40.0 | 20.0 | 20.0 |
| 77.5° | 89.9 | 89.9 | 89.9 | 84.9 | 79.9 | 79.9 | 65.0 | 40.0 | 20.0 | 5.0 | 5.0 |
| 80° | 70.0 | 70.0 | 74.9 | 70.0 | 70.0 | 70.0 | 55.0 | 30.0 | 10.0 | 0.0 | 0.0 |
| 82.5° | 70.0 | 74.9 | 84.9 | 79.9 | 70.0 | 60.0 | 50.0 | 30.0 | 10.0 | 0.0 | 0.0 |
| 85° | 20.0 | 15.0 | 25.0 | 35.0 | 50.0 | 45.0 | 35.0 | 25.0 | 10.0 | 0.0 | 0.0 |
| 87.5° | 10.0 | 10.0 | 10.0 | 10.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 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)