

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: P528842

Luminaire Tested: **GALN-SA4A-722-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-722-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11338 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

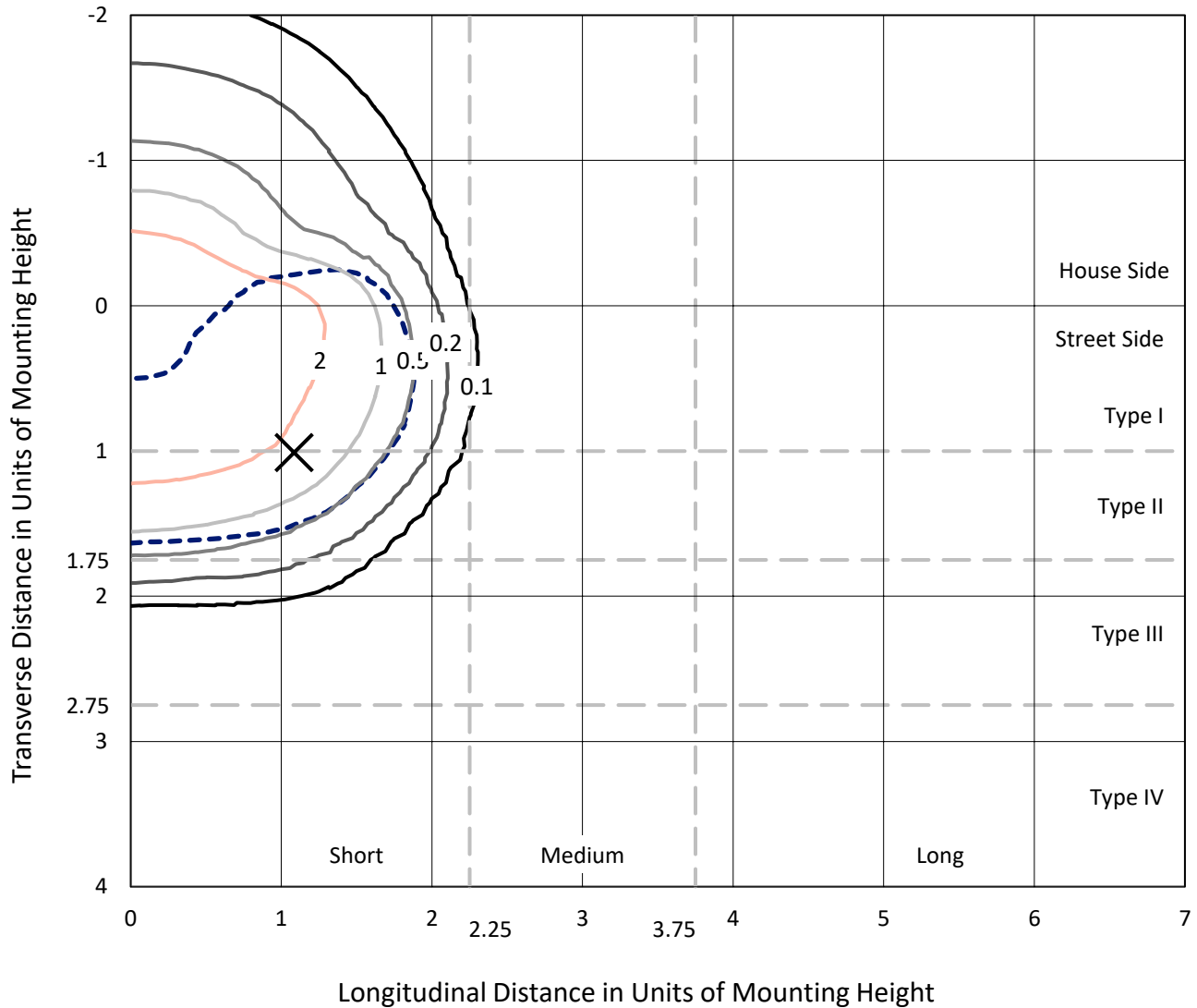
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

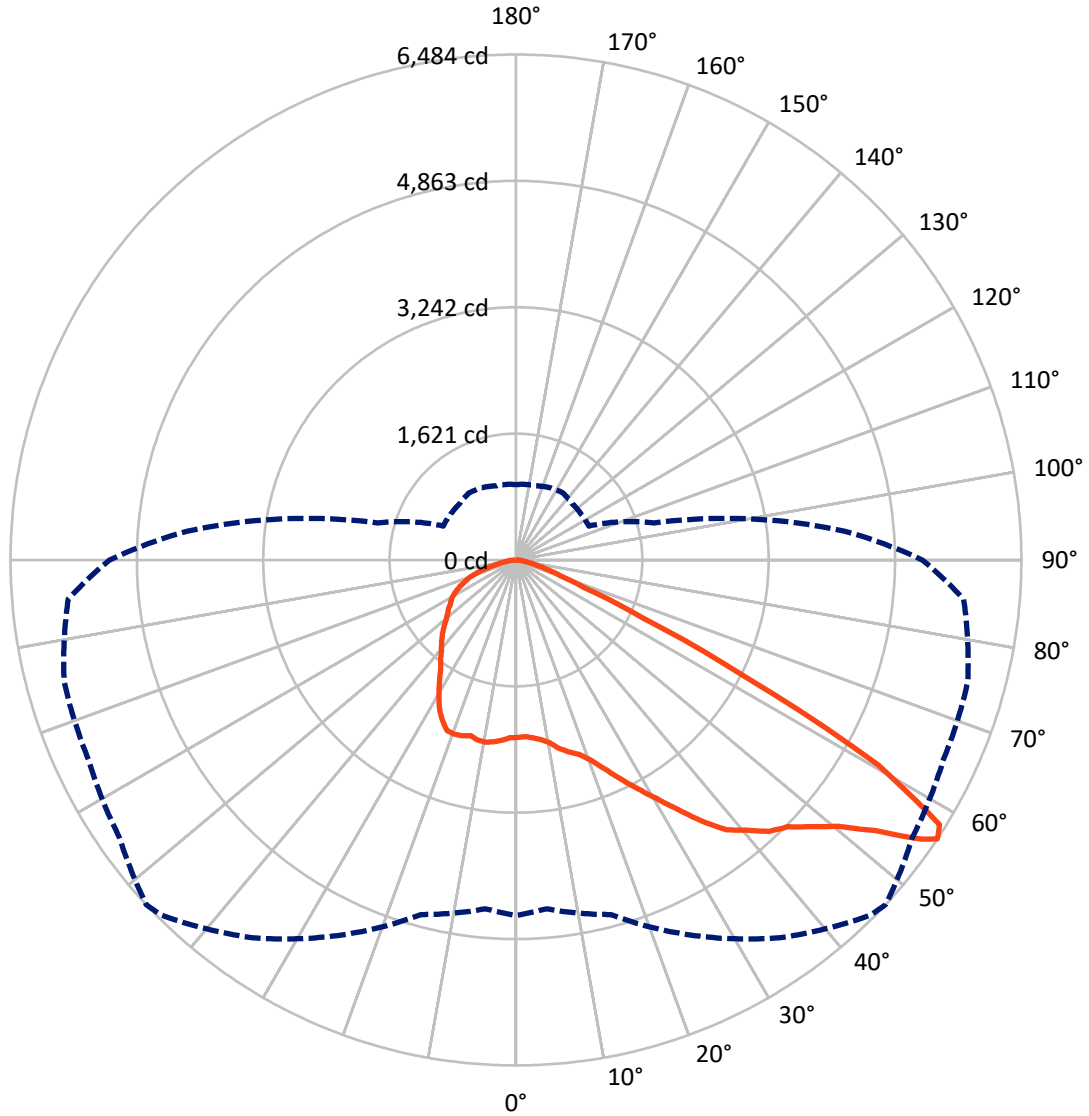
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3592.9 | 0.0 | 3592.9 |
| | % Fixture | 31.7 | 0.0 | 31.7 |
| Street Side | Lumens | 7745.1 | 0.0 | 7745.1 |
| | % Fixture | 68.3 | 0.0 | 68.3 |
| Total | Lumens | 11338.0 | 0.0 | 11338.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 221.9 | 2.0 |
| 10°-20° | 700.0 | 6.2 |
| 20°-30° | 1237.4 | 10.9 |
| 30°-40° | 1858.6 | 16.4 |
| 40°-50° | 2550.7 | 22.5 |
| 50°-60° | 3038.9 | 26.8 |
| 60°-70° | 1300.5 | 11.5 |
| 70°-80° | 368.0 | 3.2 |
| 80°-90° | 61.9 | 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° | 11338.0 | 100.0 |
| 0°-180° | 11338.0 | 100.0 |

Coefficient of Utilization



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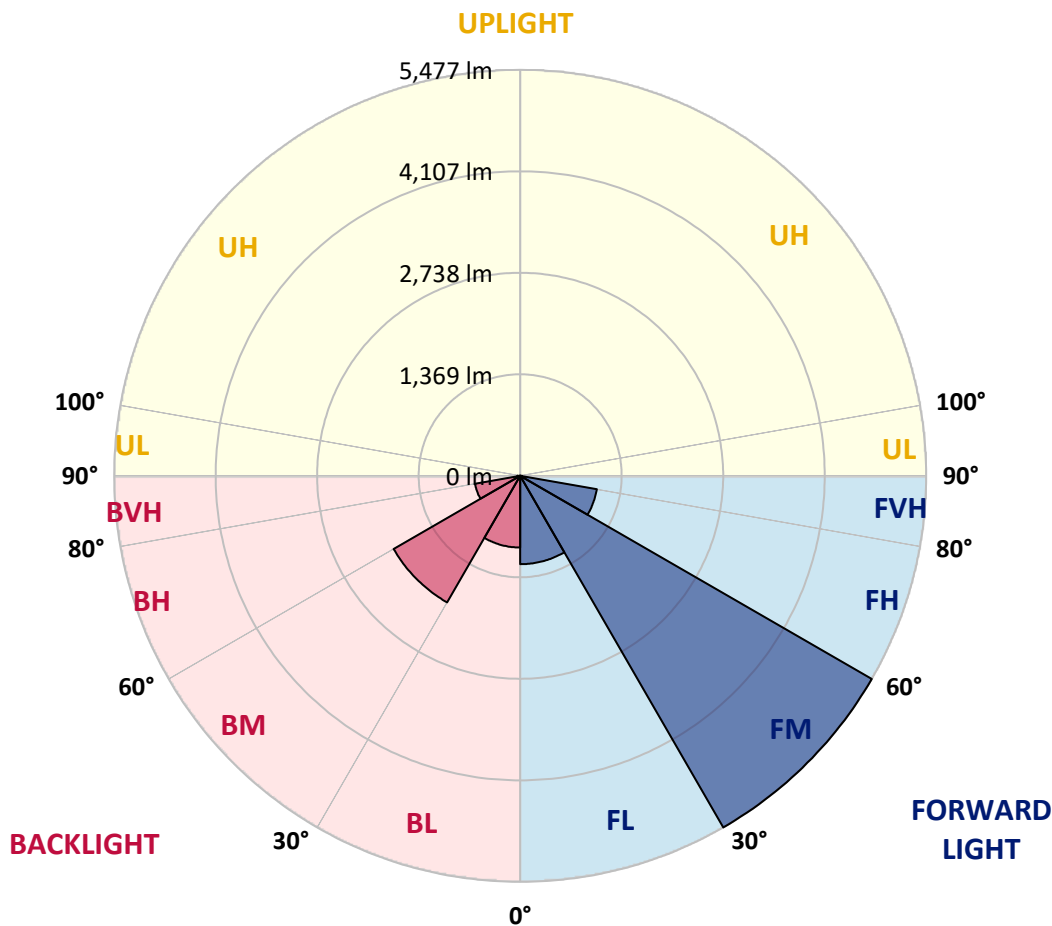
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1192.0 | 10.5 | | | |
| FM (30°-60°) | 5476.5 | 48.3 | | | |
| FH (60°-80°) | 1050.3 | 9.3 | | | G1/1800 |
| FVH (80°-90°) | 26.3 | 0.2 | | | G1/100 |
| BL (0°-30°) | 967.4 | 8.5 | B2/1000 | | |
| BM (30°-60°) | 1971.7 | 17.4 | B2/2500 | | |
| BH (60°-80°) | 618.2 | 5.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 35.6 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2277.5 | 2277.5 | 2277.5 | 2277.5 | 2277.5 | 2277.5 | 2277.5 | 2277.5 | 2277.5 | 2277.5 | 2277.5 |
| 2.5° | 2268.8 | 2264.4 | 2261.6 | 2284.7 | 2276.0 | 2277.5 | 2268.8 | 2277.5 | 2283.2 | 2270.2 | 2289.0 |
| 5° | 2264.4 | 2277.5 | 2265.9 | 2273.1 | 2291.9 | 2286.1 | 2291.9 | 2309.3 | 2304.9 | 2300.6 | 2294.8 |
| 7.5° | 2304.9 | 2306.4 | 2315.1 | 2317.9 | 2323.7 | 2317.9 | 2326.6 | 2342.5 | 2338.2 | 2313.6 | 2316.5 |
| 10° | 2362.8 | 2365.7 | 2367.1 | 2383.0 | 2393.1 | 2394.6 | 2384.5 | 2370.0 | 2368.6 | 2401.8 | 2378.7 |
| 12.5° | 2429.3 | 2422.1 | 2439.4 | 2445.2 | 2456.8 | 2469.8 | 2482.8 | 2452.4 | 2471.2 | 2472.7 | 2445.2 |
| 15° | 2526.2 | 2533.4 | 2513.2 | 2513.2 | 2517.5 | 2518.9 | 2555.1 | 2540.6 | 2537.7 | 2521.8 | 2533.4 |
| 17.5° | 2670.8 | 2621.6 | 2620.2 | 2599.9 | 2597.0 | 2608.6 | 2621.6 | 2633.2 | 2672.2 | 2640.4 | 2578.2 |
| 20° | 2776.3 | 2787.9 | 2746.0 | 2721.4 | 2725.7 | 2751.7 | 2738.7 | 2790.8 | 2818.3 | 2766.2 | 2705.5 |
| 22.5° | 2962.9 | 2923.8 | 2933.9 | 2879.0 | 2883.3 | 2910.8 | 2909.4 | 2962.9 | 2978.8 | 2896.4 | 2808.1 |
| 25° | 3088.7 | 3078.5 | 3087.2 | 3043.8 | 3049.6 | 3071.3 | 3106.0 | 3194.2 | 3168.2 | 3077.1 | 2873.2 |
| 27.5° | 3272.3 | 3252.1 | 3244.8 | 3228.9 | 3223.1 | 3281.0 | 3321.5 | 3415.5 | 3396.7 | 3263.6 | 2988.9 |
| 30° | 3460.3 | 3447.3 | 3454.5 | 3389.4 | 3412.6 | 3535.5 | 3547.1 | 3675.7 | 3667.1 | 3432.8 | 3117.6 |
| 32.5° | 3590.4 | 3597.7 | 3610.7 | 3574.5 | 3677.2 | 3775.5 | 3814.6 | 3960.6 | 3967.8 | 3723.5 | 3366.3 |
| 35° | 3800.1 | 3775.5 | 3782.8 | 3824.7 | 3872.4 | 4051.7 | 4115.3 | 4212.2 | 4272.9 | 4028.6 | 3604.9 |
| 37.5° | 3931.7 | 3957.7 | 3927.4 | 3993.9 | 4118.2 | 4333.7 | 4391.5 | 4491.3 | 4554.9 | 4329.3 | 3930.2 |
| 40° | 4137.0 | 4095.1 | 4116.8 | 4164.5 | 4291.7 | 4572.3 | 4556.4 | 4659.0 | 4679.3 | 4585.3 | 4233.9 |
| 42.5° | 4358.3 | 4338.0 | 4307.7 | 4416.1 | 4523.1 | 4727.0 | 4758.8 | 4711.1 | 4813.8 | 4835.4 | 4667.7 |
| 45° | 4622.9 | 4647.5 | 4651.8 | 4654.7 | 4748.7 | 4926.5 | 4883.2 | 4841.2 | 4959.8 | 5117.4 | 4936.7 |
| 47.5° | 4868.7 | 4790.6 | 4847.0 | 4925.1 | 5058.1 | 5059.6 | 5110.2 | 5010.4 | 5136.2 | 5276.5 | 5179.6 |
| 50° | 4951.1 | 4913.5 | 4988.7 | 5136.2 | 5341.5 | 5363.2 | 5369.0 | 5227.3 | 5292.4 | 5403.7 | 5263.5 |
| 52.5° | 4919.3 | 4906.3 | 5098.6 | 5327.1 | 5627.9 | 5737.8 | 5766.7 | 5591.7 | 5627.9 | 5577.2 | 5448.6 |
| 55° | 4767.5 | 4806.5 | 5000.3 | 5465.9 | 5927.2 | 6267.0 | 6321.9 | 6100.7 | 5870.8 | 5909.8 | 5768.1 |
| 56° | 4559.3 | 4491.3 | 4708.2 | 5308.3 | 5914.2 | 6439.1 | 6483.9 | 6207.7 | 6051.5 | 6000.9 | 5765.2 |
| 57.5° | 3868.1 | 3779.9 | 4064.7 | 4776.2 | 5585.9 | 6374.0 | 6407.3 | 6252.5 | 6021.2 | 5918.5 | 5344.4 |
| 60° | 2264.4 | 2307.8 | 2669.3 | 3294.0 | 4309.1 | 5225.9 | 5337.2 | 5450.0 | 5295.3 | 4835.4 | 3978.0 |
| 62.5° | 1093.2 | 1065.7 | 1324.5 | 1888.5 | 2625.9 | 3335.9 | 3302.7 | 3619.4 | 3792.9 | 3435.7 | 2511.7 |
| 65° | 572.6 | 569.7 | 723.0 | 1031.0 | 1443.1 | 1752.6 | 1782.9 | 1953.6 | 2192.1 | 1769.9 | 1275.4 |
| 67.5° | 420.8 | 432.4 | 509.0 | 724.4 | 928.3 | 947.1 | 942.8 | 1028.1 | 1051.2 | 889.3 | 783.7 |
| 70° | 329.7 | 335.5 | 391.9 | 550.9 | 691.2 | 618.9 | 605.9 | 616.0 | 684.0 | 712.9 | 678.2 |
| 72.5° | 238.6 | 244.4 | 292.1 | 371.6 | 432.4 | 422.2 | 430.9 | 487.3 | 571.2 | 601.5 | 565.4 |
| 75° | 159.1 | 163.4 | 189.4 | 227.0 | 255.9 | 276.2 | 292.1 | 357.2 | 435.2 | 452.6 | 435.2 |
| 77.5° | 109.9 | 114.2 | 131.6 | 160.5 | 163.4 | 176.4 | 182.2 | 212.6 | 260.3 | 282.0 | 270.4 |
| 80° | 62.2 | 62.2 | 70.9 | 82.4 | 101.2 | 118.6 | 121.5 | 146.0 | 167.7 | 182.2 | 185.1 |
| 82.5° | 28.9 | 30.4 | 37.6 | 50.6 | 66.5 | 82.4 | 85.3 | 101.2 | 117.1 | 131.6 | 135.9 |
| 85° | 14.5 | 15.9 | 21.7 | 30.4 | 40.5 | 49.2 | 47.7 | 49.2 | 52.1 | 49.2 | 50.6 |
| 87.5° | 4.3 | 4.3 | 5.8 | 7.2 | 5.8 | 7.2 | 7.2 | 8.7 | 10.1 | 11.6 | 13.0 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2277.5 | 2277.5 | 2277.5 | 2277.5 | 2277.5 | 2277.5 | 2277.5 | 2277.5 | 2277.5 | 2277.5 | 2277.5 |
| 2.5° | 2290.5 | 2294.8 | 2265.9 | 2293.4 | 2283.2 | 2281.8 | 2302.0 | 2299.1 | 2306.4 | 2303.5 | 2286.1 |
| 5° | 2291.9 | 2281.8 | 2312.2 | 2284.7 | 2297.7 | 2325.2 | 2306.4 | 2349.8 | 2328.1 | 2342.5 | 2310.7 |
| 7.5° | 2336.7 | 2339.6 | 2333.9 | 2345.4 | 2339.6 | 2352.7 | 2342.5 | 2352.7 | 2335.3 | 2336.7 | 2365.7 |
| 10° | 2375.8 | 2367.1 | 2377.2 | 2362.8 | 2372.9 | 2368.6 | 2345.4 | 2338.2 | 2344.0 | 2336.7 | 2355.5 |
| 12.5° | 2448.1 | 2432.2 | 2425.0 | 2407.6 | 2396.0 | 2352.7 | 2316.5 | 2296.3 | 2323.7 | 2328.1 | 2319.4 |
| 15° | 2521.8 | 2523.3 | 2490.0 | 2451.0 | 2378.7 | 2313.6 | 2322.3 | 2329.5 | 2329.5 | 2341.1 | 2319.4 |
| 17.5° | 2568.1 | 2568.1 | 2537.7 | 2459.7 | 2385.9 | 2348.3 | 2339.6 | 2316.5 | 2296.3 | 2293.4 | 2291.9 |
| 20° | 2649.1 | 2624.5 | 2555.1 | 2458.2 | 2383.0 | 2365.7 | 2300.6 | 2245.6 | 2203.7 | 2189.3 | 2187.8 |
| 22.5° | 2741.6 | 2679.4 | 2582.6 | 2461.1 | 2378.7 | 2354.1 | 2232.6 | 2150.2 | 2075.0 | 2043.2 | 2047.5 |
| 25° | 2826.9 | 2727.2 | 2598.5 | 2448.1 | 2362.8 | 2244.2 | 2108.3 | 1994.0 | 1916.0 | 1889.9 | 1876.9 |
| 27.5° | 2886.2 | 2777.8 | 2598.5 | 2459.7 | 2303.5 | 2121.3 | 1982.5 | 1836.4 | 1768.5 | 1751.1 | 1754.0 |
| 30° | 2965.8 | 2841.4 | 2643.3 | 2435.1 | 2184.9 | 1962.2 | 1795.9 | 1700.5 | 1660.0 | 1645.6 | 1655.7 |
| 32.5° | 3152.3 | 3007.7 | 2705.5 | 2375.8 | 2044.7 | 1803.2 | 1668.7 | 1615.2 | 1555.9 | 1527.0 | 1516.9 |
| 35° | 3354.7 | 3165.3 | 2766.2 | 2276.0 | 1887.0 | 1658.6 | 1574.7 | 1525.5 | 1454.7 | 1422.9 | 1428.7 |
| 37.5° | 3641.0 | 3367.7 | 2770.5 | 2111.2 | 1716.4 | 1577.6 | 1501.0 | 1424.3 | 1366.5 | 1317.3 | 1302.9 |
| 40° | 4027.1 | 3643.9 | 2760.4 | 1937.6 | 1579.0 | 1482.2 | 1425.8 | 1330.3 | 1265.3 | 1230.6 | 1237.8 |
| 42.5° | 4366.9 | 3967.8 | 2718.5 | 1741.0 | 1454.7 | 1417.1 | 1353.5 | 1259.5 | 1195.8 | 1159.7 | 1156.8 |
| 45° | 4653.2 | 4206.4 | 2639.0 | 1573.3 | 1350.6 | 1344.8 | 1271.0 | 1198.7 | 1148.1 | 1114.9 | 1129.3 |
| 47.5° | 4917.9 | 4398.8 | 2518.9 | 1405.5 | 1255.1 | 1266.7 | 1195.8 | 1151.0 | 1119.2 | 1088.8 | 1087.4 |
| 50° | 5013.3 | 4395.9 | 2413.4 | 1266.7 | 1178.5 | 1172.7 | 1169.8 | 1122.1 | 1088.8 | 1062.8 | 1074.4 |
| 52.5° | 5172.4 | 4445.0 | 2299.1 | 1171.3 | 1109.1 | 1110.5 | 1120.7 | 1086.0 | 1048.4 | 1032.4 | 1046.9 |
| 55° | 5400.8 | 4452.3 | 2047.5 | 1059.9 | 1051.2 | 1061.4 | 1061.4 | 1038.2 | 1006.4 | 993.4 | 986.2 |
| 56° | 5214.3 | 4236.8 | 1836.4 | 1031.0 | 1022.3 | 1022.3 | 1049.8 | 1023.8 | 984.7 | 974.6 | 965.9 |
| 57.5° | 4809.4 | 3711.9 | 1537.1 | 996.3 | 983.3 | 1003.5 | 1018.0 | 990.5 | 954.4 | 939.9 | 948.6 |
| 60° | 3317.1 | 2511.7 | 1155.4 | 921.1 | 921.1 | 954.4 | 965.9 | 925.4 | 909.5 | 908.1 | 896.5 |
| 62.5° | 1936.2 | 1463.4 | 903.8 | 853.1 | 856.0 | 883.5 | 892.2 | 869.0 | 848.8 | 873.4 | 885.0 |
| 65° | 1026.7 | 873.4 | 775.1 | 780.8 | 782.3 | 804.0 | 841.6 | 840.1 | 838.7 | 845.9 | 847.4 |
| 67.5° | 743.2 | 725.9 | 704.2 | 698.4 | 701.3 | 717.2 | 754.8 | 783.7 | 782.3 | 764.9 | 751.9 |
| 70° | 662.3 | 637.7 | 624.7 | 626.1 | 614.6 | 633.4 | 663.7 | 682.5 | 649.3 | 629.0 | 620.3 |
| 72.5° | 550.9 | 543.7 | 535.0 | 536.5 | 513.3 | 509.0 | 474.3 | 474.3 | 465.6 | 459.8 | 470.0 |
| 75° | 420.8 | 417.9 | 422.2 | 415.0 | 390.4 | 364.4 | 344.1 | 325.4 | 296.4 | 284.9 | 279.1 |
| 77.5° | 266.1 | 274.7 | 284.9 | 269.0 | 258.8 | 240.0 | 219.8 | 201.0 | 177.9 | 164.8 | 164.8 |
| 80° | 180.8 | 188.0 | 195.2 | 192.3 | 180.8 | 163.4 | 147.5 | 127.2 | 111.3 | 101.2 | 99.8 |
| 82.5° | 137.4 | 143.2 | 153.3 | 141.7 | 130.1 | 115.7 | 102.7 | 88.2 | 73.7 | 62.2 | 62.2 |
| 85° | 49.2 | 56.4 | 62.2 | 68.0 | 72.3 | 73.7 | 63.6 | 52.1 | 41.9 | 33.3 | 31.8 |
| 87.5° | 13.0 | 14.5 | 15.9 | 14.5 | 14.5 | 14.5 | 15.9 | 14.5 | 13.0 | 10.1 | 10.1 |
| 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)