

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: P527685

Luminaire Tested: **GALN-SA2D-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527685
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-SA2D-727-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 7594 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

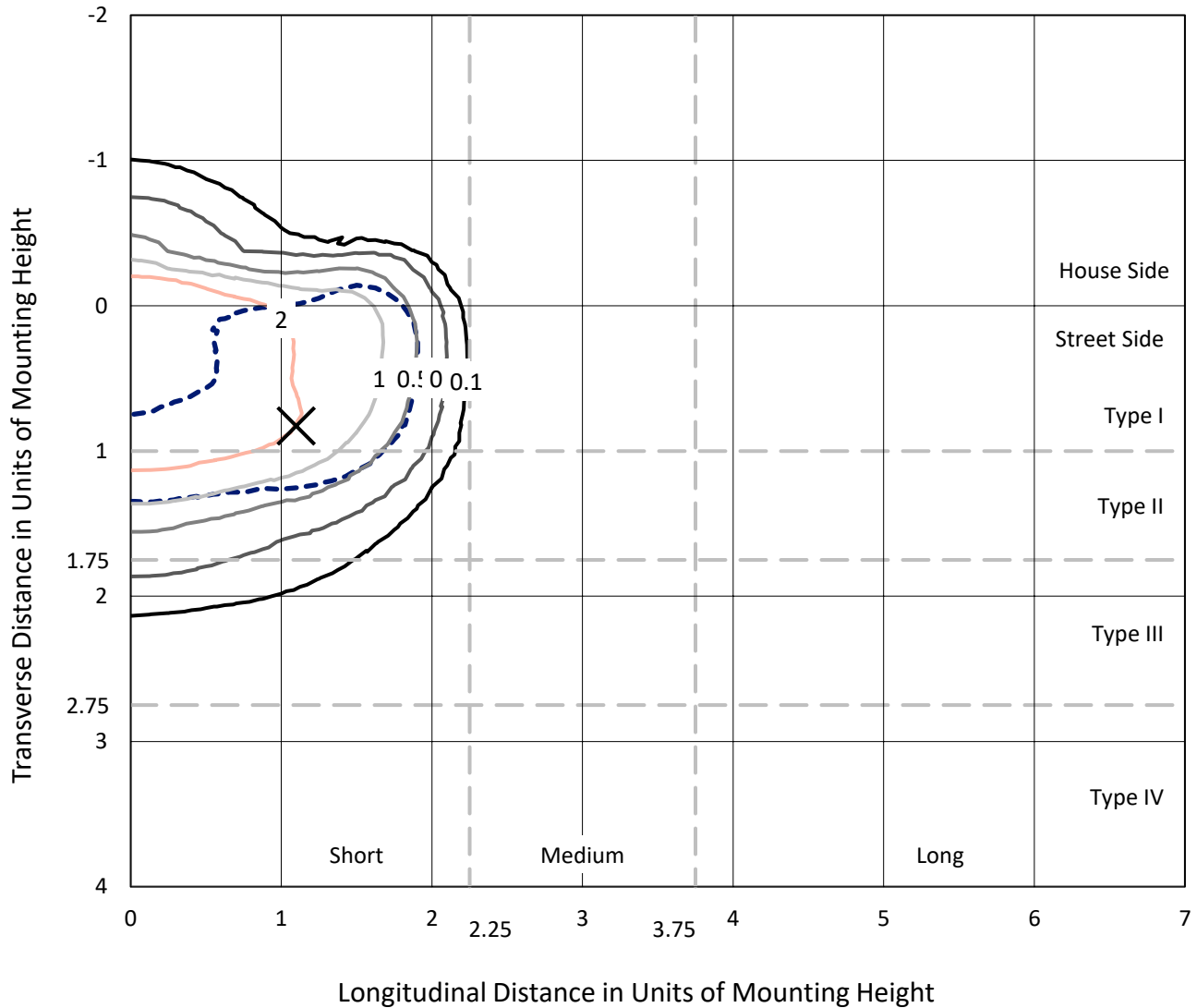
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

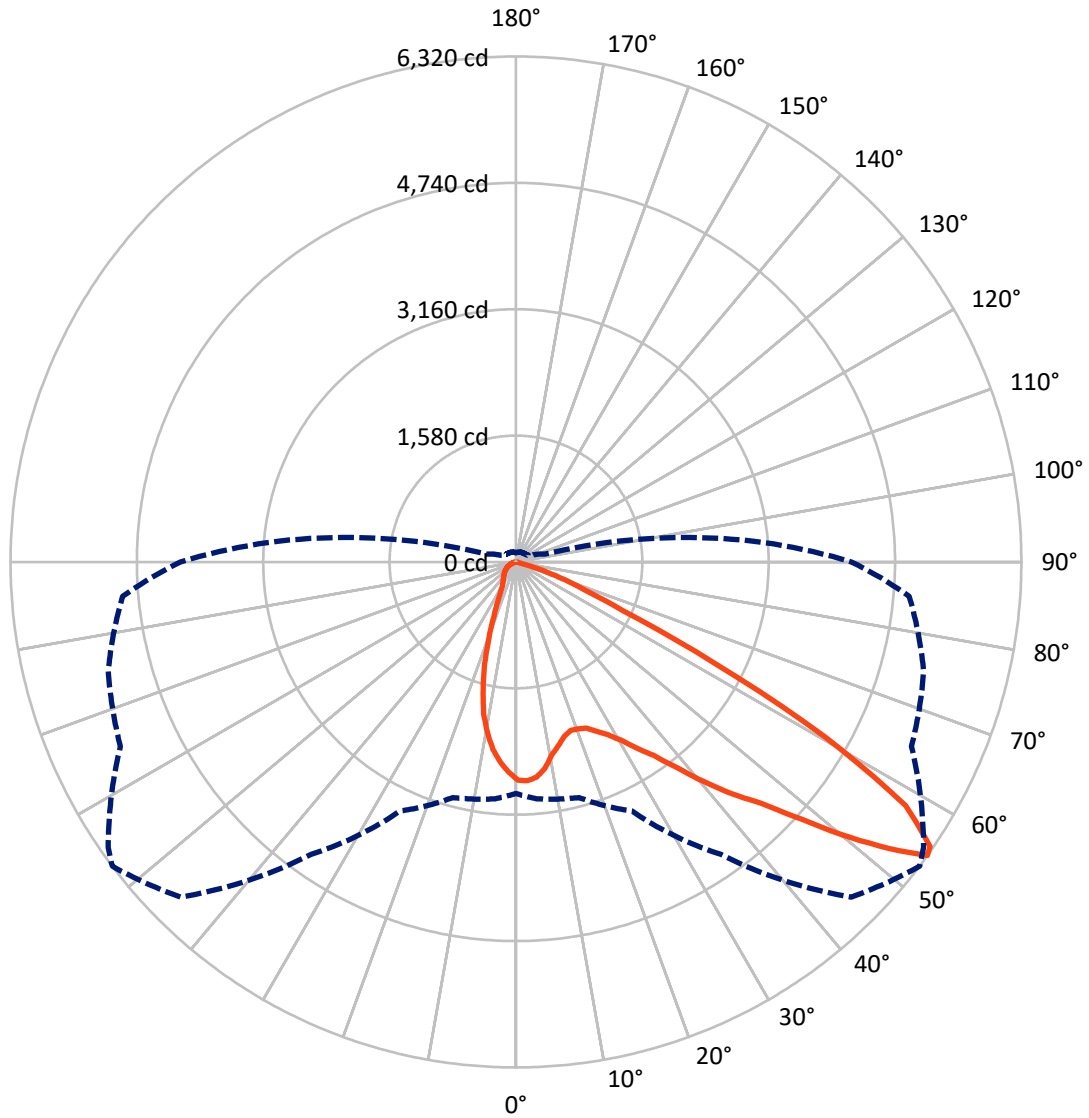
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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 | 1256.4 | 0.0 | 1256.4 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 6337.5 | 0.0 | 6337.5 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 7594.0 | 0.0 | 7594.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 234.0 | 3.1 |
| 10°-20° | 536.5 | 7.1 |
| 20°-30° | 762.5 | 10.0 |
| 30°-40° | 1176.8 | 15.5 |
| 40°-50° | 1845.1 | 24.3 |
| 50°-60° | 2143.4 | 28.2 |
| 60°-70° | 809.9 | 10.7 |
| 70°-80° | 77.0 | 1.0 |
| 80°-90° | 8.7 | 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° | 7594.0 | 100.0 |
| 0°-180° | 7594.0 | 100.0 |

Coefficient of Utilization



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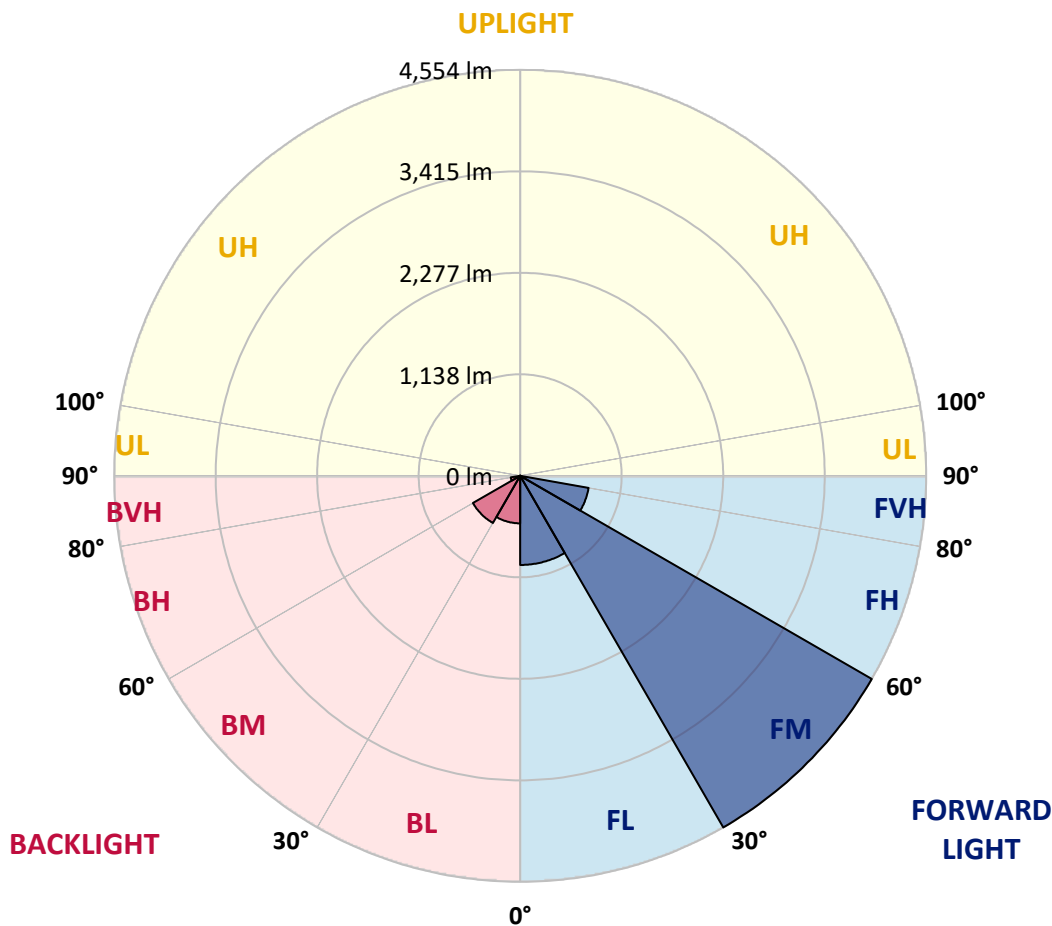
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 999.9 | 13.2 | | | |
| FM (30°-60°) | 4553.9 | 60.0 | | | |
| FH (60°-80°) | 779.3 | 10.3 | | | G1/1800 |
| FVH (80°-90°) | 4.5 | 0.1 | | | G0/10 |
| BL (0°-30°) | 533.2 | 7.0 | B2/1000 | | |
| BM (30°-60°) | 611.4 | 8.1 | B1/1000 | | |
| BH (60°-80°) | 107.6 | 1.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 4.2 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2727.6 | 2727.6 | 2727.6 | 2727.6 | 2727.6 | 2727.6 | 2727.6 | 2727.6 | 2727.6 | 2727.6 | 2727.6 |
| 2.5° | 2713.5 | 2689.4 | 2713.5 | 2716.3 | 2733.3 | 2748.9 | 2739.0 | 2761.6 | 2748.9 | 2734.7 | 2730.5 |
| 5° | 2494.2 | 2526.7 | 2528.2 | 2579.1 | 2567.8 | 2661.1 | 2702.2 | 2690.9 | 2760.2 | 2755.9 | 2746.0 |
| 7.5° | 2297.6 | 2284.8 | 2301.8 | 2361.2 | 2436.2 | 2543.7 | 2603.1 | 2601.7 | 2700.8 | 2771.5 | 2764.4 |
| 10° | 2115.1 | 2113.6 | 2149.0 | 2195.7 | 2259.4 | 2372.5 | 2454.6 | 2495.6 | 2649.8 | 2757.3 | 2772.9 |
| 12.5° | 1992.0 | 1986.3 | 2024.5 | 2062.7 | 2163.2 | 2250.9 | 2355.6 | 2375.4 | 2552.2 | 2707.8 | 2733.3 |
| 15° | 1911.3 | 1924.1 | 1926.9 | 2000.5 | 2064.1 | 2180.1 | 2262.2 | 2303.2 | 2506.9 | 2668.2 | 2765.8 |
| 17.5° | 1897.2 | 1914.2 | 1915.6 | 1976.4 | 2044.3 | 2141.9 | 2214.1 | 2269.3 | 2468.7 | 2688.0 | 2767.2 |
| 20° | 1925.5 | 1915.6 | 1924.1 | 1962.3 | 2028.8 | 2122.1 | 2226.8 | 2245.2 | 2456.0 | 2697.9 | 2782.8 |
| 22.5° | 2006.1 | 2003.3 | 1982.1 | 2013.2 | 2059.9 | 2157.5 | 2256.5 | 2284.8 | 2492.8 | 2748.9 | 2795.5 |
| 25° | 2095.2 | 2110.8 | 2091.0 | 2086.8 | 2119.3 | 2215.5 | 2347.1 | 2383.9 | 2615.9 | 2840.8 | 2835.2 |
| 27.5° | 2262.2 | 2246.6 | 2246.6 | 2226.8 | 2218.3 | 2265.0 | 2444.7 | 2505.5 | 2753.1 | 2959.7 | 2880.4 |
| 30° | 2422.1 | 2439.0 | 2426.3 | 2433.4 | 2376.8 | 2372.5 | 2583.3 | 2658.3 | 2996.4 | 3140.7 | 2976.6 |
| 32.5° | 2675.3 | 2652.7 | 2673.9 | 2655.5 | 2580.5 | 2504.1 | 2771.5 | 2849.3 | 3290.7 | 3348.7 | 3120.9 |
| 35° | 2886.1 | 2876.2 | 2966.7 | 2963.9 | 2842.2 | 2767.2 | 2971.0 | 3087.0 | 3495.8 | 3597.7 | 3290.7 |
| 37.5° | 3186.0 | 3167.6 | 3270.9 | 3320.4 | 3211.5 | 3099.7 | 3256.8 | 3391.2 | 3686.8 | 3797.2 | 3464.7 |
| 40° | 3494.4 | 3541.1 | 3679.8 | 3761.8 | 3645.8 | 3497.3 | 3606.2 | 3647.2 | 3814.2 | 3927.3 | 3583.6 |
| 42.5° | 3884.9 | 3952.8 | 4094.3 | 4165.0 | 4155.1 | 3993.8 | 3961.3 | 3959.9 | 3906.1 | 3890.6 | 3671.3 |
| 45° | 4259.8 | 4234.3 | 4452.2 | 4606.4 | 4730.9 | 4684.2 | 4303.7 | 4261.2 | 4051.8 | 3945.7 | 3693.9 |
| 47.5° | 4423.9 | 4415.4 | 4564.0 | 4838.4 | 5262.9 | 5320.9 | 4801.7 | 4637.5 | 4298.0 | 4177.8 | 3817.0 |
| 50° | 4211.7 | 4255.6 | 4402.7 | 4706.9 | 5357.7 | 5800.5 | 5412.8 | 5192.1 | 4585.2 | 4460.7 | 4108.4 |
| 52.5° | 3518.5 | 3548.2 | 3688.3 | 4074.5 | 5035.1 | 6083.4 | 5998.5 | 5871.2 | 5112.9 | 4906.4 | 4616.3 |
| 54° | 2893.2 | 2972.4 | 3048.8 | 3436.4 | 4460.7 | 5926.4 | 6319.7 | 6222.1 | 5456.7 | 5277.0 | 4936.1 |
| 55° | 2519.7 | 2566.4 | 2621.5 | 3007.8 | 4063.2 | 5660.4 | 6282.9 | 6291.4 | 5687.3 | 5393.0 | 5151.1 |
| 57.5° | 1840.6 | 1873.1 | 1816.5 | 1987.7 | 2789.9 | 4596.5 | 5746.7 | 5975.9 | 5998.5 | 5567.0 | 5282.7 |
| 60° | 1406.3 | 1420.4 | 1356.7 | 1383.6 | 1734.5 | 3154.9 | 4445.1 | 4721.0 | 5411.4 | 4865.3 | 4474.9 |
| 62.5° | 1090.8 | 1093.6 | 1092.2 | 1138.9 | 1195.5 | 1856.2 | 2780.0 | 3024.7 | 3730.7 | 3454.8 | 3038.9 |
| 65° | 803.6 | 790.8 | 813.5 | 955.0 | 1020.0 | 1167.2 | 1464.3 | 1642.5 | 2027.3 | 1711.8 | 1223.8 |
| 67.5° | 520.6 | 524.9 | 547.5 | 710.2 | 874.3 | 895.5 | 901.2 | 887.0 | 888.5 | 489.5 | 307.0 |
| 70° | 312.7 | 319.7 | 312.7 | 401.8 | 625.3 | 642.3 | 587.1 | 573.0 | 447.1 | 116.0 | 114.6 |
| 72.5° | 185.3 | 175.4 | 157.0 | 172.6 | 260.3 | 311.2 | 280.1 | 278.7 | 175.4 | 67.9 | 67.9 |
| 75° | 77.8 | 70.7 | 58.0 | 52.3 | 69.3 | 66.5 | 66.5 | 59.4 | 46.7 | 45.3 | 42.4 |
| 77.5° | 15.6 | 15.6 | 11.3 | 12.7 | 17.0 | 19.8 | 24.1 | 24.1 | 28.3 | 28.3 | 26.9 |
| 80° | 0.0 | 1.4 | 4.2 | 8.5 | 12.7 | 18.4 | 21.2 | 21.2 | 24.1 | 24.1 | 19.8 |
| 82.5° | 0.0 | 1.4 | 4.2 | 8.5 | 11.3 | 17.0 | 21.2 | 21.2 | 24.1 | 25.5 | 21.2 |
| 85° | 0.0 | 1.4 | 4.2 | 7.1 | 11.3 | 14.1 | 14.1 | 12.7 | 9.9 | 8.5 | 5.7 |
| 87.5° | 0.0 | 0.0 | 1.4 | 2.8 | 1.4 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 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° | 2727.6 | 2727.6 | 2727.6 | 2727.6 | 2727.6 | 2727.6 | 2727.6 | 2727.6 | 2727.6 | 2727.6 | 2727.6 |
| 2.5° | 2740.4 | 2739.0 | 2705.0 | 2649.8 | 2637.1 | 2590.4 | 2584.7 | 2556.5 | 2572.0 | 2519.7 | 2514.0 |
| 5° | 2717.7 | 2700.8 | 2659.7 | 2624.4 | 2521.1 | 2447.5 | 2389.5 | 2318.8 | 2277.7 | 2284.8 | 2257.9 |
| 7.5° | 2750.3 | 2706.4 | 2634.3 | 2511.2 | 2385.3 | 2256.5 | 2187.2 | 2042.9 | 1990.6 | 1912.7 | 1901.4 |
| 10° | 2716.3 | 2683.8 | 2572.0 | 2368.3 | 2194.3 | 2008.9 | 1846.2 | 1686.4 | 1564.7 | 1512.4 | 1501.0 |
| 12.5° | 2713.5 | 2656.9 | 2470.2 | 2243.8 | 1992.0 | 1726.0 | 1489.7 | 1290.3 | 1170.0 | 1102.1 | 1086.5 |
| 15° | 2669.6 | 2601.7 | 2355.6 | 2051.4 | 1703.4 | 1372.3 | 1114.8 | 922.4 | 830.5 | 790.8 | 802.2 |
| 17.5° | 2673.9 | 2572.0 | 2241.0 | 1847.7 | 1419.0 | 1007.3 | 761.1 | 662.1 | 638.1 | 648.0 | 648.0 |
| 20° | 2669.6 | 2505.5 | 2102.3 | 1612.8 | 1086.5 | 698.9 | 558.8 | 523.5 | 539.0 | 570.1 | 563.1 |
| 22.5° | 2647.0 | 2474.4 | 1975.0 | 1365.2 | 799.3 | 517.8 | 448.5 | 449.9 | 473.9 | 512.1 | 520.6 |
| 25° | 2664.0 | 2405.1 | 1813.7 | 1114.8 | 582.9 | 413.1 | 389.1 | 399.0 | 424.4 | 452.7 | 458.4 |
| 27.5° | 2651.2 | 2355.6 | 1645.4 | 865.8 | 425.8 | 355.1 | 353.7 | 365.0 | 376.3 | 397.5 | 397.5 |
| 30° | 2665.4 | 2310.3 | 1479.8 | 643.7 | 350.9 | 325.4 | 319.7 | 328.2 | 339.5 | 343.8 | 342.4 |
| 32.5° | 2717.7 | 2276.3 | 1288.8 | 481.0 | 309.8 | 297.1 | 297.1 | 297.1 | 295.7 | 301.3 | 302.8 |
| 35° | 2832.3 | 2282.0 | 1120.5 | 372.1 | 282.9 | 273.0 | 268.8 | 263.1 | 260.3 | 263.1 | 264.6 |
| 37.5° | 2956.8 | 2279.2 | 946.5 | 316.9 | 263.1 | 254.7 | 244.8 | 236.3 | 234.8 | 237.7 | 233.4 |
| 40° | 3012.0 | 2306.0 | 785.2 | 284.4 | 244.8 | 234.8 | 219.3 | 212.2 | 213.6 | 216.5 | 213.6 |
| 42.5° | 3087.0 | 2314.5 | 680.5 | 258.9 | 227.8 | 212.2 | 202.3 | 193.8 | 192.4 | 196.7 | 195.2 |
| 45° | 3085.6 | 2266.4 | 570.1 | 244.8 | 212.2 | 195.2 | 182.5 | 175.4 | 175.4 | 178.3 | 179.7 |
| 47.5° | 3176.1 | 2259.4 | 489.5 | 232.0 | 200.9 | 183.9 | 168.4 | 162.7 | 161.3 | 161.3 | 158.5 |
| 50° | 3386.9 | 2358.4 | 427.3 | 217.9 | 186.7 | 171.2 | 158.5 | 151.4 | 145.7 | 142.9 | 141.5 |
| 52.5° | 3798.6 | 2666.8 | 379.2 | 200.9 | 171.2 | 158.5 | 147.1 | 141.5 | 134.4 | 127.3 | 125.9 |
| 54° | 4197.6 | 2985.1 | 376.3 | 186.7 | 158.5 | 150.0 | 140.1 | 137.2 | 128.7 | 118.8 | 116.0 |
| 55° | 4377.2 | 3170.5 | 386.2 | 175.4 | 150.0 | 144.3 | 135.8 | 133.0 | 124.5 | 113.2 | 111.8 |
| 57.5° | 4525.8 | 3242.6 | 380.6 | 145.7 | 135.8 | 134.4 | 127.3 | 123.1 | 113.2 | 97.6 | 94.8 |
| 60° | 3643.0 | 2451.8 | 273.0 | 128.7 | 124.5 | 121.7 | 116.0 | 113.2 | 100.4 | 83.5 | 82.1 |
| 62.5° | 2301.8 | 1410.5 | 174.0 | 113.2 | 108.9 | 104.7 | 97.6 | 94.8 | 83.5 | 66.5 | 62.2 |
| 65° | 980.4 | 584.3 | 117.4 | 100.4 | 93.4 | 86.3 | 80.6 | 76.4 | 66.5 | 49.5 | 48.1 |
| 67.5° | 254.7 | 208.0 | 97.6 | 87.7 | 77.8 | 67.9 | 63.7 | 56.6 | 45.3 | 34.0 | 32.5 |
| 70° | 114.6 | 104.7 | 82.1 | 73.6 | 62.2 | 52.3 | 46.7 | 39.6 | 29.7 | 22.6 | 21.2 |
| 72.5° | 67.9 | 66.5 | 62.2 | 55.2 | 46.7 | 39.6 | 34.0 | 26.9 | 19.8 | 12.7 | 12.7 |
| 75° | 42.4 | 41.0 | 42.4 | 38.2 | 32.5 | 29.7 | 25.5 | 18.4 | 11.3 | 5.7 | 5.7 |
| 77.5° | 25.5 | 25.5 | 25.5 | 24.1 | 22.6 | 22.6 | 18.4 | 11.3 | 5.7 | 1.4 | 1.4 |
| 80° | 19.8 | 19.8 | 21.2 | 19.8 | 19.8 | 19.8 | 15.6 | 8.5 | 2.8 | 0.0 | 0.0 |
| 82.5° | 19.8 | 21.2 | 24.1 | 22.6 | 19.8 | 17.0 | 14.1 | 8.5 | 2.8 | 0.0 | 0.0 |
| 85° | 5.7 | 4.2 | 7.1 | 9.9 | 14.1 | 12.7 | 9.9 | 7.1 | 2.8 | 0.0 | 0.0 |
| 87.5° | 2.8 | 2.8 | 2.8 | 2.8 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 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)