

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: P527844

Luminaire Tested: **GALN-SA2D-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527844
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-SA2D-827-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 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: 9675 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

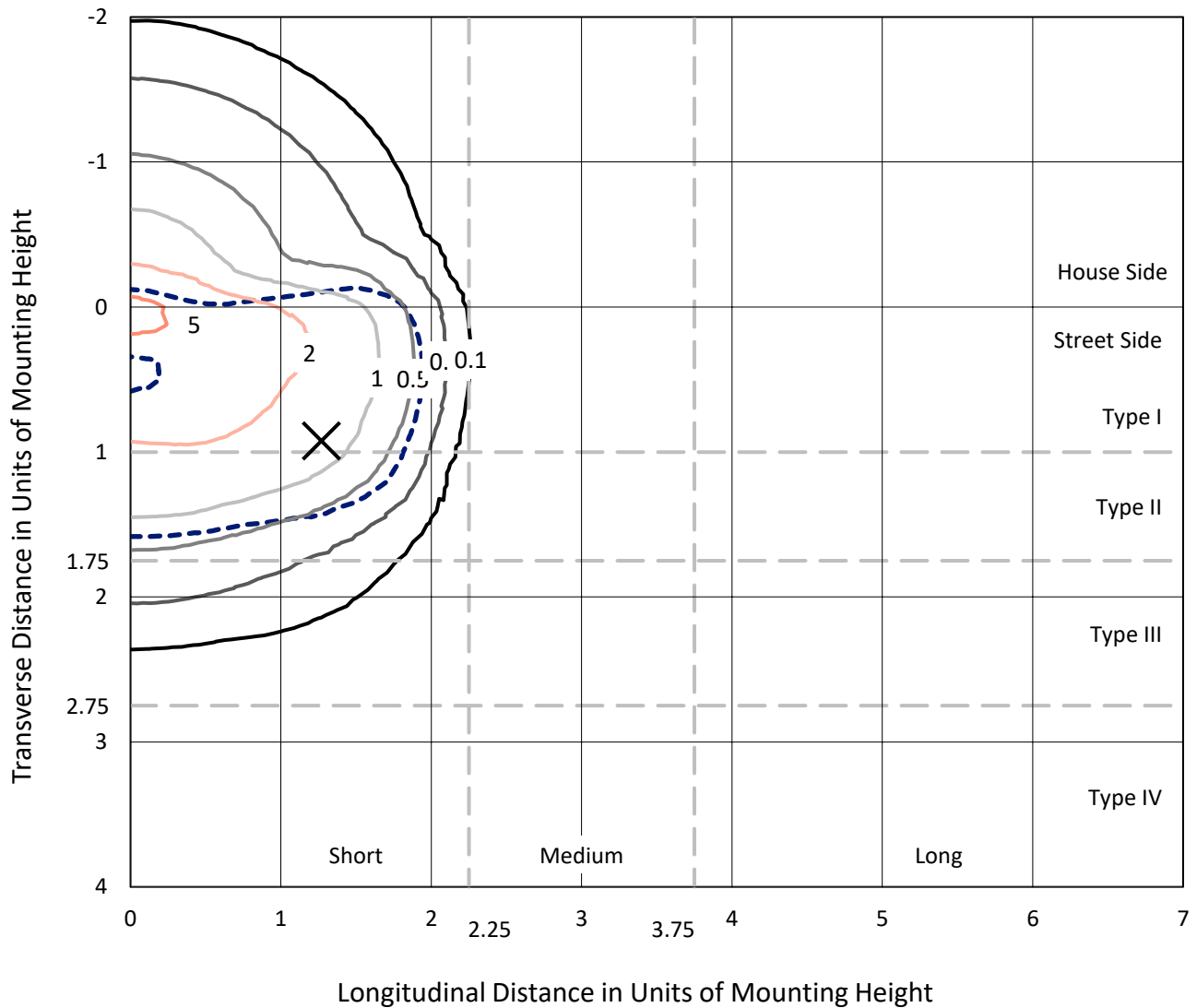
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527844
 CATALOG NUMBER: GALN-SA2D-827-U-SL3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

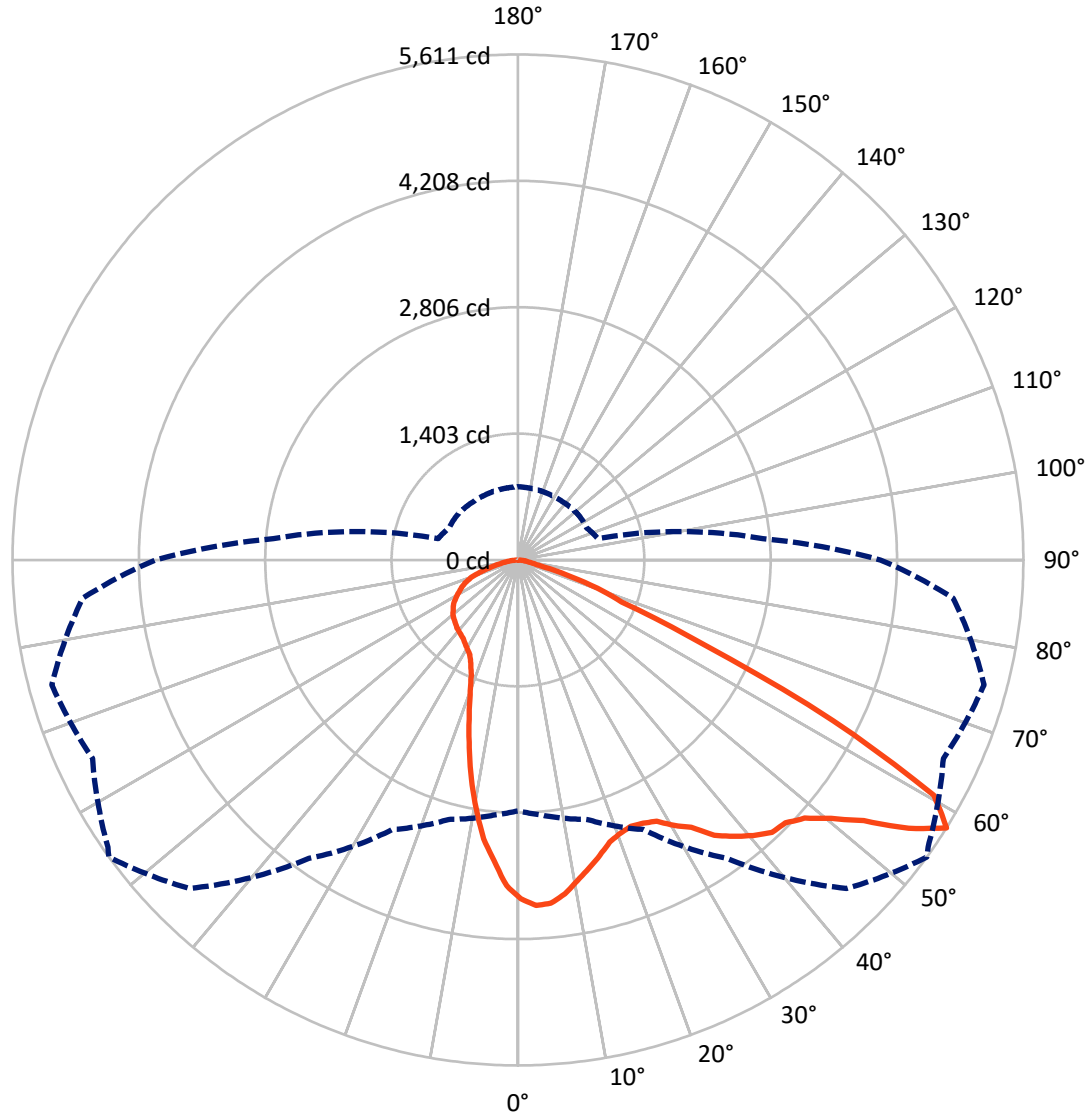
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

REPORT NUMBER: P527844
CATALOG NUMBER: GALN-SA2D-827-U-SL3-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P527844
 CATALOG NUMBER: GALN-SA2D-827-U-SL3-GRSWH

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2676.6 | 0.0 | 2676.6 |
| | % Fixture | 27.7 | 0.0 | 27.7 |
| Street Side | Lumens | 6998.4 | 0.0 | 6998.4 |
| | % Fixture | 72.3 | 0.0 | 72.3 |
| Total | Lumens | 9675.0 | 0.0 | 9675.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 324.3 | 3.4 |
| 10°-20° | 750.9 | 7.8 |
| 20°-30° | 1055.0 | 10.9 |
| 30°-40° | 1474.9 | 15.2 |
| 40°-50° | 1996.8 | 20.6 |
| 50°-60° | 2432.2 | 25.1 |
| 60°-70° | 1266.8 | 13.1 |
| 70°-80° | 324.6 | 3.4 |
| 80°-90° | 49.5 | 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° | 9675.0 | 100.0 |
| 0°-180° | 9675.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P527844

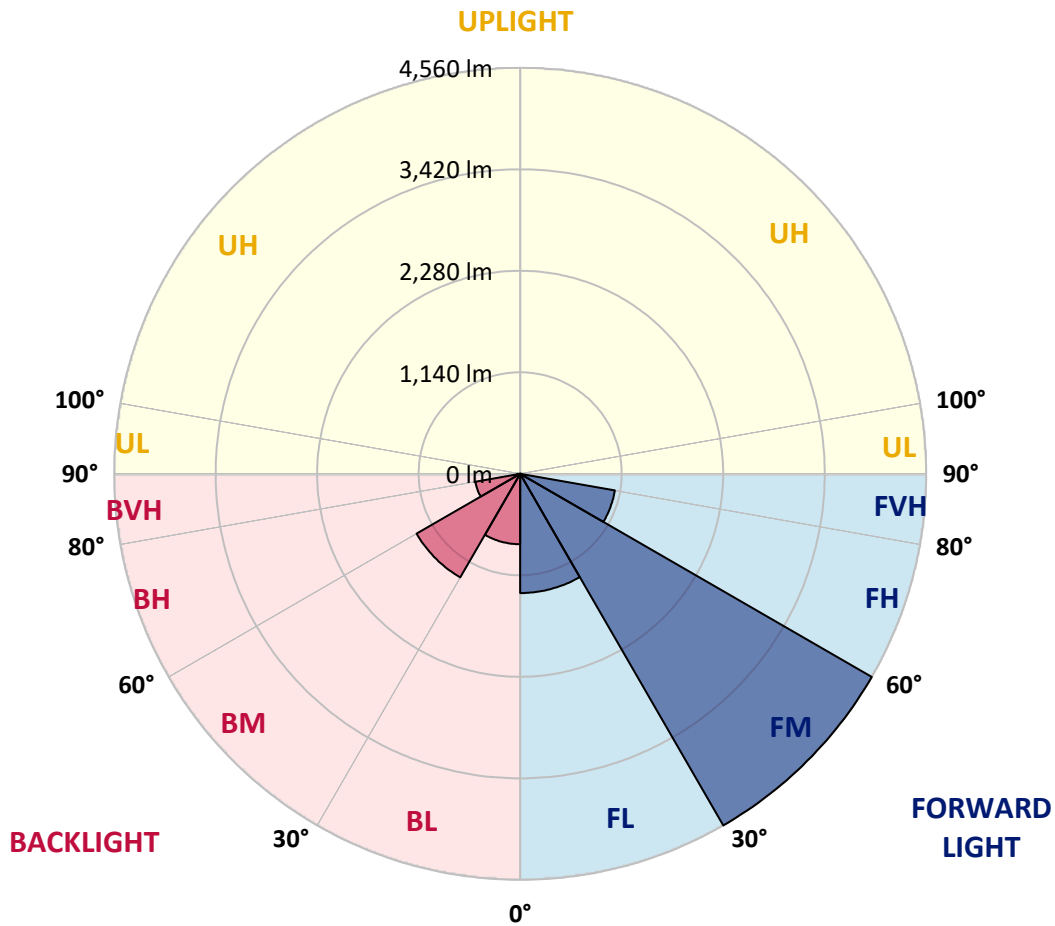
CATALOG NUMBER: GALN-SA2D-827-U-SL3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1339.2 | 13.8 | | | |
| FM (30°-60°) | 4560.5 | 47.1 | | | |
| FH (60°-80°) | 1080.0 | 11.2 | | | G1/1800 |
| FVH (80°-90°) | 18.7 | 0.2 | | | G1/100 |
| BL (0°-30°) | 791.1 | 8.2 | B2/1000 | | |
| BM (30°-60°) | 1343.4 | 13.9 | B2/2500 | | |
| BH (60°-80°) | 511.4 | 5.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 30.8 | 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





REPORT NUMBER: P527844

CATALOG NUMBER: GALN-SA2D-827-U-SL3-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3760.6 | 3760.6 | 3760.6 | 3760.6 | 3760.6 | 3760.6 | 3760.6 | 3760.6 | 3760.6 | 3760.6 | 3760.6 |
| 2.5° | 3867.5 | 3852.6 | 3855.1 | 3875.0 | 3850.1 | 3840.2 | 3840.2 | 3791.7 | 3795.4 | 3761.8 | 3753.1 |
| 5° | 3778.0 | 3743.2 | 3766.8 | 3796.6 | 3801.6 | 3811.5 | 3827.7 | 3815.3 | 3780.5 | 3744.4 | 3685.9 |
| 7.5° | 3544.2 | 3575.3 | 3584.0 | 3605.1 | 3649.9 | 3690.9 | 3741.9 | 3707.1 | 3705.8 | 3669.8 | 3635.0 |
| 10° | 3339.0 | 3320.3 | 3367.6 | 3398.7 | 3473.3 | 3541.7 | 3620.0 | 3616.3 | 3635.0 | 3593.9 | 3534.2 |
| 12.5° | 3135.0 | 3120.1 | 3142.5 | 3213.4 | 3317.9 | 3417.3 | 3510.6 | 3475.8 | 3575.3 | 3567.8 | 3439.7 |
| 15° | 2918.7 | 2929.9 | 2962.2 | 3028.1 | 3164.9 | 3284.3 | 3402.4 | 3403.7 | 3492.0 | 3521.8 | 3350.2 |
| 17.5° | 2766.9 | 2754.5 | 2795.5 | 2893.8 | 3015.7 | 3158.7 | 3293.0 | 3320.3 | 3455.9 | 3473.3 | 3322.8 |
| 20° | 2653.8 | 2671.2 | 2724.7 | 2774.4 | 2914.9 | 3087.8 | 3239.5 | 3249.5 | 3448.4 | 3495.7 | 3279.3 |
| 22.5° | 2626.4 | 2616.5 | 2633.9 | 2714.7 | 2830.4 | 3018.1 | 3210.9 | 3248.2 | 3447.2 | 3488.2 | 3197.2 |
| 25° | 2597.8 | 2630.2 | 2628.9 | 2709.7 | 2794.3 | 2962.2 | 3234.5 | 3275.6 | 3513.1 | 3526.8 | 3208.4 |
| 27.5° | 2662.5 | 2658.8 | 2693.6 | 2699.8 | 2804.3 | 2977.1 | 3284.3 | 3315.4 | 3622.5 | 3611.3 | 3217.1 |
| 30° | 2727.2 | 2708.5 | 2729.6 | 2803.0 | 2851.5 | 3062.9 | 3421.1 | 3418.6 | 3764.3 | 3756.8 | 3244.5 |
| 32.5° | 2806.7 | 2798.0 | 2811.7 | 2876.4 | 2958.5 | 3177.3 | 3536.7 | 3610.1 | 3908.5 | 3955.8 | 3339.0 |
| 35° | 2821.7 | 2857.7 | 2890.1 | 2977.1 | 3094.0 | 3362.6 | 3754.3 | 3815.3 | 4075.2 | 4223.2 | 3519.3 |
| 37.5° | 2916.2 | 2929.9 | 3005.7 | 3159.9 | 3266.9 | 3610.1 | 3892.4 | 3930.9 | 4226.9 | 4394.8 | 3709.6 |
| 40° | 3016.9 | 3033.1 | 3147.5 | 3309.1 | 3455.9 | 3771.8 | 4021.7 | 4034.1 | 4275.4 | 4526.6 | 3833.9 |
| 42.5° | 3153.7 | 3168.6 | 3281.8 | 3484.5 | 3681.0 | 3909.8 | 4136.1 | 4149.8 | 4271.7 | 4678.3 | 4031.7 |
| 45° | 3295.5 | 3331.5 | 3464.6 | 3694.7 | 3871.2 | 4071.5 | 4162.2 | 4218.2 | 4306.5 | 4813.9 | 4192.1 |
| 47.5° | 3494.4 | 3528.0 | 3637.4 | 3862.5 | 4069.0 | 4213.2 | 4282.9 | 4337.6 | 4389.8 | 4932.0 | 4295.3 |
| 50° | 3705.8 | 3712.1 | 3845.1 | 4049.1 | 4200.8 | 4373.6 | 4507.9 | 4526.6 | 4499.2 | 5068.8 | 4470.6 |
| 52.5° | 3861.3 | 3881.2 | 3984.4 | 4183.4 | 4409.7 | 4622.4 | 4806.4 | 4826.3 | 4772.8 | 5119.8 | 4530.3 |
| 55° | 3603.9 | 3592.7 | 3760.6 | 4025.4 | 4550.2 | 4992.9 | 5260.3 | 5275.2 | 4971.8 | 5277.7 | 4725.6 |
| 57.5° | 2785.6 | 2839.1 | 2982.1 | 3301.7 | 4042.9 | 5157.1 | 5611.0 | 5557.5 | 5210.6 | 5357.3 | 4849.9 |
| 60° | 2024.5 | 2012.1 | 2107.9 | 2321.7 | 3046.8 | 4444.5 | 5305.1 | 5359.8 | 5015.3 | 4828.8 | 3999.3 |
| 62.5° | 1649.0 | 1631.6 | 1639.0 | 1646.5 | 1966.1 | 2949.8 | 3927.2 | 3926.0 | 3862.5 | 3470.8 | 2697.3 |
| 65° | 1318.2 | 1359.2 | 1363.0 | 1418.9 | 1460.0 | 1762.1 | 2275.7 | 2397.6 | 2088.0 | 1712.4 | 1242.3 |
| 67.5° | 993.6 | 978.7 | 1028.4 | 1227.4 | 1304.5 | 1272.2 | 1242.3 | 1256.0 | 892.9 | 644.2 | 606.9 |
| 70° | 585.7 | 579.5 | 639.2 | 855.6 | 1074.4 | 1011.0 | 936.4 | 937.7 | 613.1 | 450.2 | 501.2 |
| 72.5° | 320.8 | 319.6 | 332.0 | 434.0 | 610.6 | 634.2 | 562.1 | 579.5 | 365.6 | 364.4 | 391.7 |
| 75° | 179.1 | 175.3 | 171.6 | 191.5 | 220.1 | 232.5 | 237.5 | 240.0 | 251.2 | 281.0 | 292.2 |
| 77.5° | 65.9 | 63.4 | 63.4 | 73.4 | 93.3 | 116.9 | 148.0 | 150.5 | 177.8 | 203.9 | 215.1 |
| 80° | 22.4 | 24.9 | 33.6 | 46.0 | 62.2 | 83.3 | 100.7 | 103.2 | 125.6 | 143.0 | 146.7 |
| 82.5° | 13.7 | 14.9 | 22.4 | 32.3 | 44.8 | 58.4 | 74.6 | 75.9 | 93.3 | 104.5 | 109.4 |
| 85° | 6.2 | 7.5 | 12.4 | 19.9 | 28.6 | 38.6 | 39.8 | 39.8 | 38.6 | 39.8 | 37.3 |
| 87.5° | 0.0 | 0.0 | 2.5 | 2.5 | 2.5 | 3.7 | 5.0 | 3.7 | 6.2 | 7.5 | 7.5 |
| 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: P527844

CATALOG NUMBER: GALN-SA2D-827-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3760.6 | 3760.6 | 3760.6 | 3760.6 | 3760.6 | 3760.6 | 3760.6 | 3760.6 | 3760.6 | 3760.6 | 3760.6 |
| 2.5° | 3727.0 | 3713.3 | 3671.0 | 3633.7 | 3622.5 | 3572.8 | 3499.4 | 3508.1 | 3454.6 | 3479.5 | 3453.4 |
| 5° | 3676.0 | 3630.0 | 3521.8 | 3475.8 | 3355.2 | 3300.4 | 3263.1 | 3169.9 | 3126.3 | 3117.6 | 3080.3 |
| 7.5° | 3545.4 | 3516.8 | 3381.3 | 3256.9 | 3128.8 | 3019.4 | 2878.9 | 2783.1 | 2714.7 | 2696.1 | 2641.3 |
| 10° | 3442.2 | 3378.8 | 3191.0 | 3002.0 | 2819.2 | 2628.9 | 2446.1 | 2303.1 | 2233.5 | 2152.6 | 2125.3 |
| 12.5° | 3340.2 | 3244.5 | 2990.8 | 2748.3 | 2512.0 | 2272.0 | 2050.7 | 1876.6 | 1724.8 | 1688.8 | 1676.3 |
| 15° | 3276.8 | 3110.2 | 2811.7 | 2519.5 | 2183.7 | 1870.3 | 1649.0 | 1534.6 | 1441.3 | 1402.7 | 1430.1 |
| 17.5° | 3193.5 | 2999.5 | 2640.1 | 2250.9 | 1881.5 | 1593.0 | 1407.7 | 1336.8 | 1303.3 | 1307.0 | 1295.8 |
| 20° | 3089.0 | 2895.0 | 2415.0 | 2007.1 | 1611.7 | 1381.6 | 1275.9 | 1249.8 | 1254.8 | 1263.5 | 1259.7 |
| 22.5° | 3014.4 | 2768.2 | 2252.1 | 1758.4 | 1392.8 | 1264.7 | 1221.2 | 1202.5 | 1218.7 | 1226.2 | 1219.9 |
| 25° | 2957.2 | 2660.0 | 2054.4 | 1538.3 | 1266.0 | 1198.8 | 1178.9 | 1177.7 | 1202.5 | 1212.5 | 1206.3 |
| 27.5° | 2905.0 | 2559.3 | 1857.9 | 1370.4 | 1181.4 | 1147.8 | 1141.6 | 1156.5 | 1172.7 | 1182.6 | 1191.3 |
| 30° | 2873.9 | 2482.2 | 1673.8 | 1229.9 | 1139.1 | 1122.9 | 1111.8 | 1125.4 | 1134.1 | 1144.1 | 1139.1 |
| 32.5° | 2903.7 | 2427.5 | 1496.0 | 1150.3 | 1104.3 | 1088.1 | 1103.0 | 1094.3 | 1109.3 | 1118.0 | 1104.3 |
| 35° | 2997.0 | 2379.0 | 1369.2 | 1108.0 | 1064.5 | 1070.7 | 1073.2 | 1069.5 | 1075.7 | 1068.2 | 1084.4 |
| 37.5° | 3089.0 | 2361.5 | 1252.3 | 1072.0 | 1045.8 | 1045.8 | 1043.4 | 1035.9 | 1048.3 | 1045.8 | 1053.3 |
| 40° | 3205.9 | 2372.7 | 1152.8 | 1033.4 | 1028.4 | 1025.9 | 1016.0 | 1014.8 | 1009.8 | 1011.0 | 1013.5 |
| 42.5° | 3307.9 | 2397.6 | 1095.6 | 1008.5 | 1012.3 | 1017.2 | 998.6 | 983.7 | 989.9 | 977.4 | 977.4 |
| 45° | 3416.1 | 2420.0 | 1044.6 | 991.1 | 987.4 | 986.2 | 971.2 | 962.5 | 957.6 | 958.8 | 970.0 |
| 47.5° | 3586.5 | 2452.3 | 1006.0 | 967.5 | 970.0 | 951.3 | 947.6 | 936.4 | 941.4 | 948.8 | 950.1 |
| 50° | 3707.1 | 2520.7 | 976.2 | 940.1 | 948.8 | 936.4 | 914.0 | 909.1 | 909.1 | 921.5 | 919.0 |
| 52.5° | 3791.7 | 2616.5 | 947.6 | 910.3 | 914.0 | 904.1 | 896.6 | 885.4 | 878.0 | 895.4 | 904.1 |
| 55° | 4050.3 | 2775.7 | 940.1 | 885.4 | 884.2 | 874.2 | 860.6 | 849.4 | 845.6 | 848.1 | 865.5 |
| 57.5° | 4025.4 | 2725.9 | 916.5 | 841.9 | 839.4 | 825.7 | 812.1 | 808.3 | 807.1 | 809.6 | 814.5 |
| 60° | 3268.1 | 2013.3 | 818.3 | 792.2 | 788.4 | 785.9 | 772.3 | 757.3 | 749.9 | 757.3 | 751.1 |
| 62.5° | 2162.6 | 1348.0 | 721.3 | 732.5 | 735.0 | 728.7 | 706.3 | 691.4 | 693.9 | 702.6 | 688.9 |
| 65° | 1062.0 | 792.2 | 654.1 | 684.0 | 686.5 | 669.0 | 647.9 | 630.5 | 621.8 | 629.2 | 623.0 |
| 67.5° | 606.9 | 605.6 | 599.4 | 630.5 | 629.2 | 611.8 | 578.3 | 563.3 | 548.4 | 550.9 | 547.2 |
| 70° | 514.8 | 524.8 | 537.2 | 555.9 | 554.6 | 534.7 | 494.9 | 483.7 | 462.6 | 460.1 | 453.9 |
| 72.5° | 405.4 | 422.8 | 450.2 | 463.9 | 452.7 | 427.8 | 401.7 | 383.0 | 364.4 | 353.2 | 356.9 |
| 75° | 300.9 | 325.8 | 340.7 | 349.4 | 332.0 | 318.4 | 297.2 | 274.8 | 252.4 | 242.5 | 238.8 |
| 77.5° | 218.9 | 226.3 | 240.0 | 246.2 | 235.0 | 221.4 | 208.9 | 186.5 | 165.4 | 151.7 | 148.0 |
| 80° | 153.0 | 157.9 | 167.9 | 167.9 | 167.9 | 161.7 | 145.5 | 123.1 | 109.4 | 97.0 | 94.5 |
| 82.5° | 106.9 | 111.9 | 121.9 | 116.9 | 115.7 | 108.2 | 98.2 | 80.8 | 65.9 | 57.2 | 54.7 |
| 85° | 37.3 | 41.0 | 49.7 | 59.7 | 63.4 | 62.2 | 56.0 | 44.8 | 34.8 | 28.6 | 26.1 |
| 87.5° | 8.7 | 8.7 | 9.9 | 8.7 | 8.7 | 9.9 | 8.7 | 8.7 | 8.7 | 6.2 | 5.0 |
| 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)