

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P642960

Luminaire Tested: GWS-SA6D-830-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-830-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27486.3 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

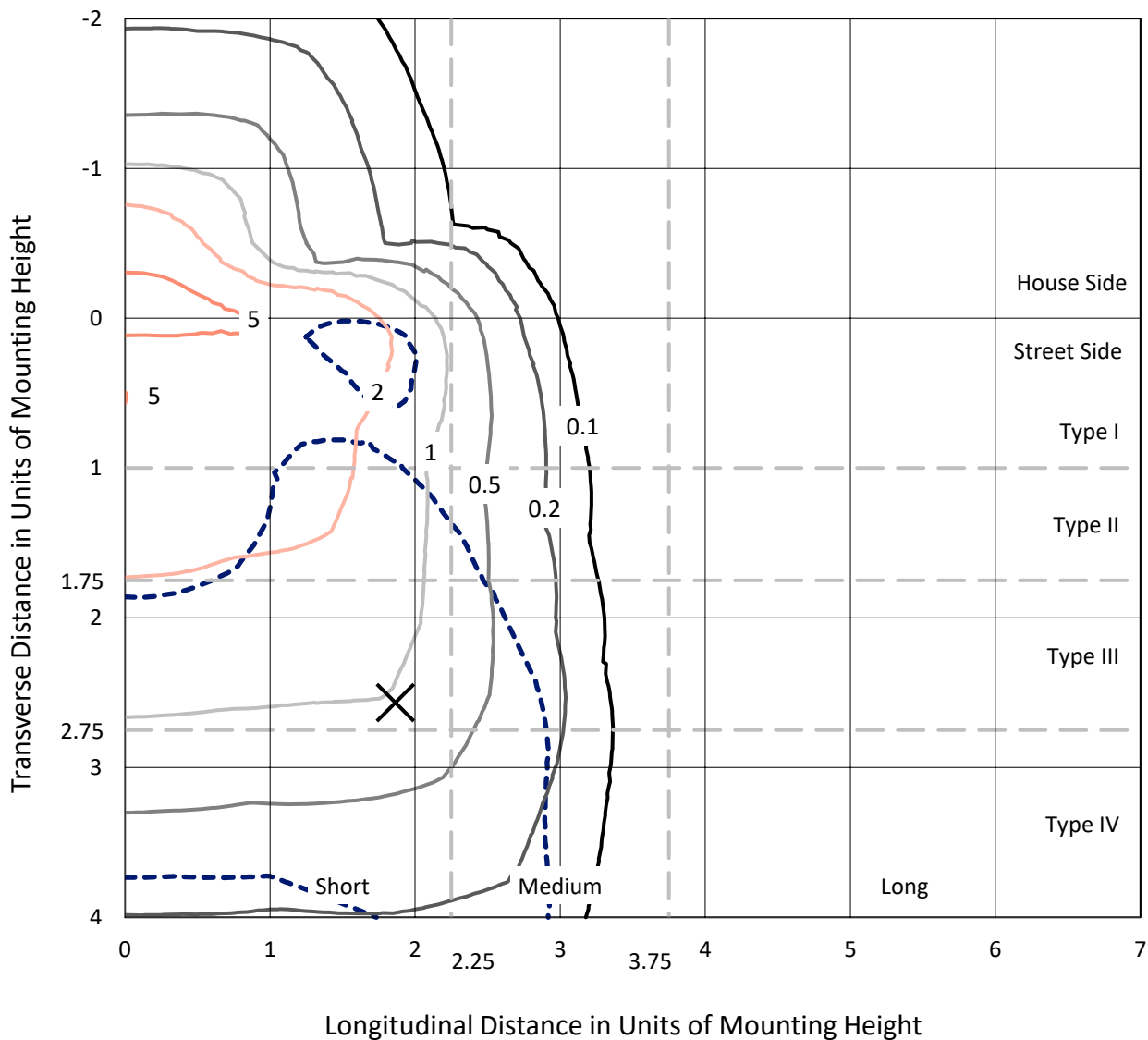
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

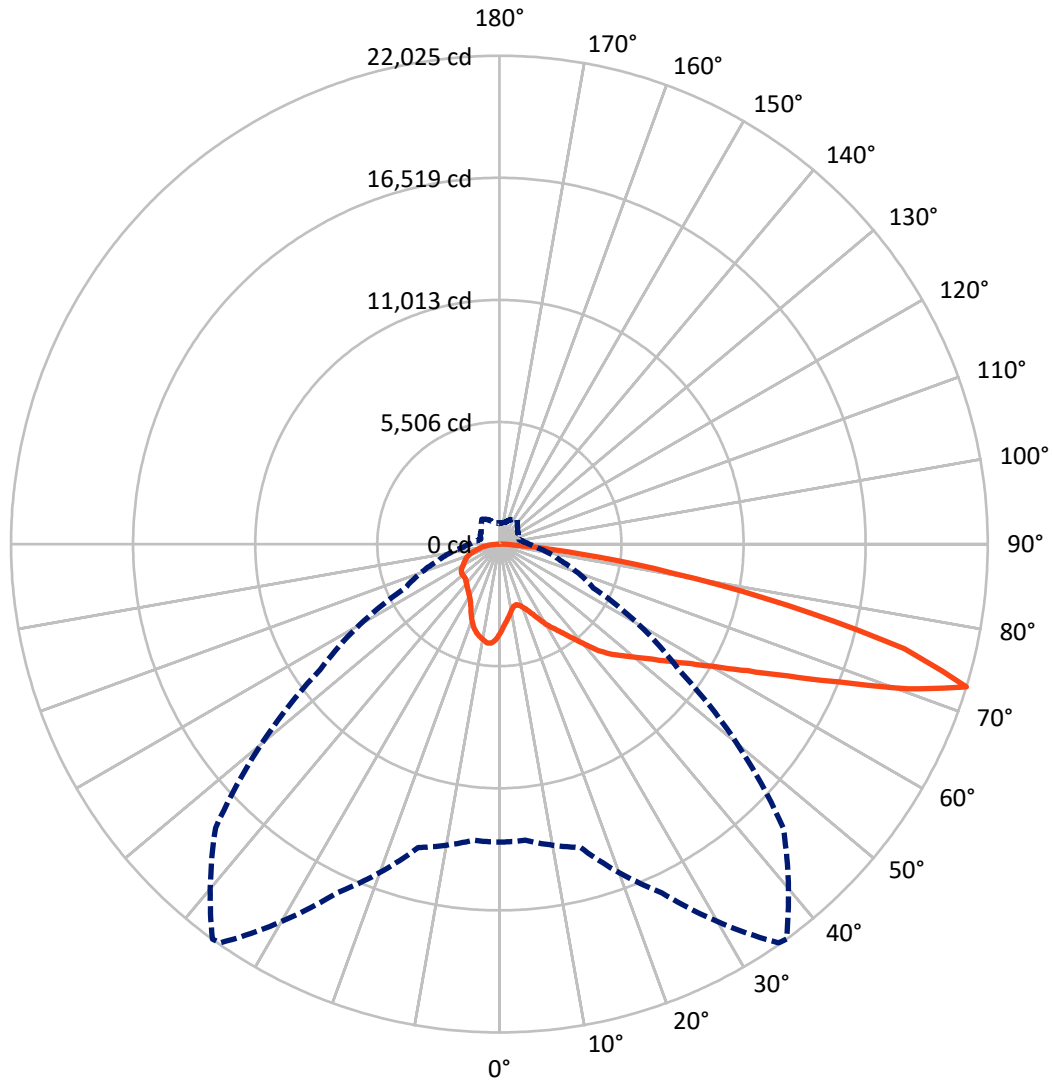
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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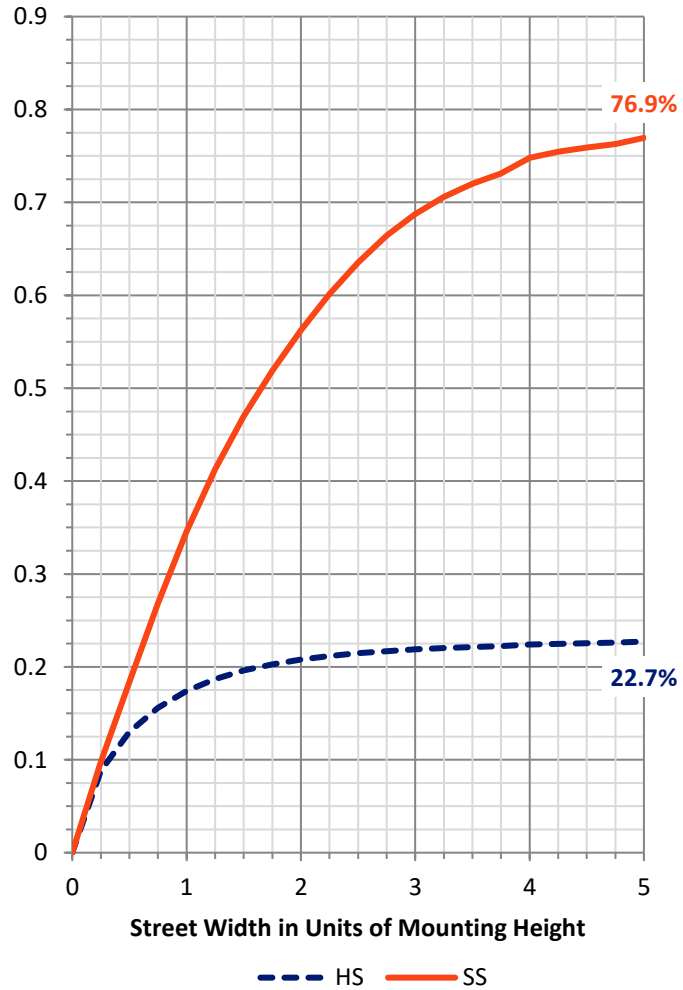
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6336.8 | 0.0 | 6336.8 |
| | % Fixture | 23.1 | 0.0 | 23.1 |
| Street Side | Lumens | 21149.5 | 0.0 | 21149.5 |
| | % Fixture | 76.9 | 0.0 | 76.9 |
| Total | Lumens | 27486.3 | 0.0 | 27486.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 376.0 | 1.4 |
| 10°-20° | 1060.9 | 3.9 |
| 20°-30° | 1757.0 | 6.4 |
| 30°-40° | 2631.2 | 9.6 |
| 40°-50° | 3838.7 | 14.0 |
| 50°-60° | 5463.7 | 19.9 |
| 60°-70° | 6902.9 | 25.1 |
| 70°-80° | 4918.9 | 17.9 |
| 80°-90° | 537.0 | 2.0 |
| 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° | 27486.3 | 100.0 |
| 0°-180° | 27486.3 | 100.0 |

Coefficient of Utilization





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4022.7 | 4022.7 | 4022.7 | 4022.7 | 4022.7 | 4022.7 | 4022.7 | 4022.7 | 4022.7 | 4022.7 | 4022.7 |
| 2.5° | 3669.8 | 3663.7 | 3651.5 | 3688.2 | 3724.9 | 3720.8 | 3771.8 | 3820.8 | 3873.8 | 3928.9 | 4002.3 |
| 5° | 3376.1 | 3372.0 | 3361.8 | 3416.9 | 3472.0 | 3469.9 | 3553.6 | 3633.1 | 3741.2 | 3859.5 | 4006.4 |
| 7.5° | 3082.3 | 3072.1 | 3086.4 | 3155.8 | 3233.3 | 3241.4 | 3355.7 | 3486.2 | 3643.3 | 3820.8 | 4028.9 |
| 10° | 2823.3 | 2821.2 | 2827.3 | 2904.9 | 3021.1 | 3029.3 | 3176.2 | 3357.7 | 3565.8 | 3802.4 | 4079.9 |
| 12.5° | 2755.9 | 2751.9 | 2735.5 | 2774.3 | 2862.0 | 2874.3 | 3035.4 | 3257.8 | 3512.8 | 3812.6 | 4149.2 |
| 15° | 2866.1 | 2855.9 | 2798.8 | 2780.4 | 2823.3 | 2833.5 | 2970.1 | 3198.6 | 3482.2 | 3831.0 | 4236.9 |
| 17.5° | 3055.8 | 3049.7 | 2941.6 | 2866.1 | 2894.7 | 2902.8 | 3004.8 | 3188.4 | 3474.0 | 3867.7 | 4345.1 |
| 20° | 3333.2 | 3306.7 | 3137.4 | 3023.2 | 3023.2 | 3035.4 | 3096.6 | 3233.3 | 3484.2 | 3912.6 | 4467.4 |
| 22.5° | 3700.4 | 3647.4 | 3408.7 | 3253.7 | 3212.9 | 3229.2 | 3255.7 | 3345.5 | 3527.0 | 3988.1 | 4620.4 |
| 25° | 4112.5 | 4063.5 | 3780.0 | 3561.7 | 3504.6 | 3510.7 | 3488.3 | 3504.6 | 3620.9 | 4092.1 | 4810.2 |
| 27.5° | 4551.1 | 4518.4 | 4216.5 | 3939.1 | 3849.3 | 3849.3 | 3769.8 | 3731.0 | 3751.4 | 4210.4 | 5022.3 |
| 30° | 4942.8 | 4897.9 | 4642.9 | 4338.9 | 4220.6 | 4220.6 | 4069.7 | 3986.0 | 3937.1 | 4355.3 | 5305.9 |
| 32.5° | 5148.8 | 5122.3 | 4953.0 | 4720.4 | 4575.6 | 4553.1 | 4422.6 | 4324.7 | 4210.4 | 4569.4 | 5689.4 |
| 35° | 5418.1 | 5411.9 | 5309.9 | 5128.4 | 4944.8 | 4912.2 | 4822.4 | 4744.9 | 4547.0 | 4836.7 | 6199.3 |
| 37.5° | 5756.7 | 5746.5 | 5730.2 | 5622.0 | 5401.7 | 5395.6 | 5316.1 | 5222.2 | 4965.2 | 5222.2 | 6817.4 |
| 40° | 6136.1 | 6117.8 | 6097.4 | 6095.3 | 5962.7 | 5940.3 | 5934.2 | 5828.1 | 5469.1 | 5687.3 | 7462.1 |
| 42.5° | 6658.3 | 6595.1 | 6403.3 | 6489.0 | 6586.9 | 6566.5 | 6644.1 | 6484.9 | 6097.4 | 6240.1 | 8072.0 |
| 45° | 7300.9 | 7145.9 | 6766.4 | 6790.9 | 7037.8 | 7078.6 | 7347.8 | 7309.1 | 6788.9 | 6878.6 | 8714.6 |
| 47.5° | 7686.5 | 7551.8 | 7198.9 | 7178.5 | 7486.5 | 7537.5 | 8123.0 | 8196.4 | 7533.5 | 7647.7 | 9508.1 |
| 50° | 8002.6 | 7908.8 | 7619.1 | 7647.7 | 7974.1 | 8025.1 | 8892.1 | 9049.1 | 8235.2 | 8435.1 | 10430.2 |
| 52.5° | 8384.1 | 8249.5 | 8025.1 | 8159.7 | 8559.5 | 8620.7 | 9746.8 | 9916.1 | 8867.6 | 9300.0 | 11384.9 |
| 55° | 8598.3 | 8543.2 | 8547.3 | 8753.3 | 9255.2 | 9338.8 | 10642.3 | 10613.8 | 9446.9 | 10040.5 | 12102.9 |
| 57.5° | 9092.0 | 9071.6 | 9259.2 | 9336.8 | 10067.1 | 10175.2 | 11537.8 | 11293.1 | 9973.2 | 10613.8 | 12447.7 |
| 60° | 9963.0 | 9912.0 | 10075.2 | 10193.5 | 11070.7 | 11223.7 | 12537.4 | 11958.1 | 10330.2 | 11040.1 | 12331.4 |
| 62.5° | 11187.0 | 11123.7 | 11129.9 | 11317.5 | 12415.0 | 12576.2 | 13649.2 | 12512.9 | 10440.4 | 11105.4 | 11595.0 |
| 65° | 12708.8 | 12617.0 | 12512.9 | 12767.9 | 14200.0 | 14334.6 | 14858.9 | 12916.8 | 10177.2 | 10477.1 | 10056.9 |
| 67.5° | 14314.2 | 14238.7 | 14116.3 | 14650.8 | 16511.2 | 16592.8 | 16215.4 | 12882.2 | 9342.9 | 8796.2 | 7054.1 |
| 70° | 14408.0 | 14426.4 | 15005.7 | 16939.6 | 19528.3 | 19548.7 | 17498.5 | 12184.5 | 7566.1 | 5701.6 | 3514.8 |
| 72.5° | 13441.1 | 13410.5 | 14165.3 | 17357.8 | 21955.8 | 22025.1 | 18104.4 | 9871.2 | 4675.5 | 2843.7 | 1648.3 |
| 75° | 10917.7 | 10970.7 | 11764.3 | 15187.3 | 18818.4 | 18879.6 | 14758.9 | 5819.9 | 2221.5 | 1391.2 | 1054.6 |
| 77.5° | 4700.0 | 4995.8 | 6560.4 | 10699.4 | 13477.8 | 13288.1 | 7606.9 | 2358.2 | 1185.2 | 991.4 | 807.8 |
| 80° | 1356.6 | 1472.8 | 2337.8 | 5087.6 | 8076.1 | 7933.3 | 3010.9 | 883.3 | 826.2 | 744.6 | 579.3 |
| 82.5° | 438.6 | 485.5 | 856.8 | 2025.7 | 3618.8 | 3614.8 | 1142.4 | 522.2 | 540.6 | 505.9 | 373.3 |
| 85° | 122.4 | 140.8 | 263.2 | 614.0 | 1119.9 | 1097.5 | 330.5 | 246.8 | 287.6 | 291.7 | 185.6 |
| 87.5° | 0.0 | 0.0 | 2.0 | 4.1 | 4.1 | 4.1 | 8.2 | 36.7 | 83.6 | 106.1 | 75.5 |
| 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° | 4022.7 | 4022.7 | 4022.7 | 4022.7 | 4022.7 | 4022.7 | 4022.7 | 4022.7 | 4022.7 | 4022.7 | 4022.7 |
| 2.5° | 4047.2 | 4041.1 | 4124.7 | 4190.0 | 4251.2 | 4292.0 | 4304.3 | 4312.4 | 4328.7 | 4336.9 | 4328.7 |
| 5° | 4075.8 | 4106.4 | 4245.1 | 4347.1 | 4428.7 | 4477.6 | 4479.7 | 4475.6 | 4487.8 | 4477.6 | 4471.5 |
| 7.5° | 4137.0 | 4196.1 | 4371.6 | 4479.7 | 4532.7 | 4534.8 | 4485.8 | 4428.7 | 4400.1 | 4375.7 | 4367.5 |
| 10° | 4218.6 | 4306.3 | 4498.0 | 4569.4 | 4553.1 | 4477.6 | 4369.5 | 4279.8 | 4228.8 | 4192.1 | 4183.9 |
| 12.5° | 4330.8 | 4428.7 | 4610.2 | 4608.2 | 4506.2 | 4371.6 | 4245.1 | 4137.0 | 4063.5 | 4020.7 | 4006.4 |
| 15° | 4436.8 | 4561.3 | 4691.8 | 4596.0 | 4434.8 | 4271.6 | 4108.4 | 3963.6 | 3865.7 | 3798.4 | 3786.1 |
| 17.5° | 4567.4 | 4700.0 | 4751.0 | 4557.2 | 4345.1 | 4134.9 | 3916.7 | 3727.0 | 3594.4 | 3514.8 | 3508.7 |
| 20° | 4718.4 | 4836.7 | 4779.6 | 4489.9 | 4228.8 | 3953.4 | 3657.6 | 3445.4 | 3302.6 | 3225.1 | 3231.3 |
| 22.5° | 4893.8 | 4979.5 | 4787.7 | 4398.1 | 4067.6 | 3696.4 | 3365.9 | 3161.9 | 3066.0 | 3025.2 | 3027.3 |
| 25° | 5081.5 | 5136.5 | 4773.4 | 4273.7 | 3820.8 | 3382.2 | 3066.0 | 2972.2 | 2964.0 | 2953.8 | 2957.9 |
| 27.5° | 5303.8 | 5291.6 | 4730.6 | 4098.2 | 3488.3 | 3017.1 | 2855.9 | 2880.4 | 2913.0 | 2908.9 | 2913.0 |
| 30° | 5601.6 | 5485.4 | 4675.5 | 3855.5 | 3092.5 | 2711.1 | 2731.5 | 2800.8 | 2843.7 | 2847.7 | 2860.0 |
| 32.5° | 5942.3 | 5699.6 | 4587.8 | 3525.0 | 2715.1 | 2539.7 | 2615.2 | 2698.8 | 2749.8 | 2760.0 | 2776.3 |
| 35° | 6348.3 | 5944.4 | 4432.8 | 3112.9 | 2443.8 | 2437.7 | 2507.1 | 2564.2 | 2619.3 | 2623.4 | 2623.4 |
| 37.5° | 6815.4 | 6189.1 | 4185.9 | 2658.0 | 2276.6 | 2350.0 | 2415.3 | 2427.5 | 2441.8 | 2429.6 | 2435.7 |
| 40° | 7243.8 | 6425.8 | 3835.1 | 2243.9 | 2139.9 | 2272.5 | 2327.6 | 2286.8 | 2241.9 | 2211.3 | 2217.4 |
| 42.5° | 7602.8 | 6586.9 | 3370.0 | 1954.3 | 2001.2 | 2203.1 | 2246.0 | 2162.3 | 2074.6 | 2017.5 | 2025.7 |
| 45° | 8006.7 | 6735.9 | 2823.3 | 1758.4 | 1882.9 | 2154.2 | 2182.7 | 2074.6 | 1962.4 | 1876.7 | 1864.5 |
| 47.5° | 8563.6 | 7039.8 | 2337.8 | 1621.7 | 1799.2 | 2127.6 | 2174.6 | 2027.7 | 1880.8 | 1752.3 | 1738.0 |
| 50° | 9251.1 | 7470.2 | 1931.8 | 1532.0 | 1760.5 | 2113.4 | 2172.5 | 1976.7 | 1801.3 | 1650.3 | 1640.1 |
| 52.5° | 10001.8 | 7890.5 | 1631.9 | 1462.6 | 1721.7 | 2070.5 | 2162.3 | 1919.6 | 1717.6 | 1554.4 | 1542.2 |
| 55° | 10501.6 | 8055.7 | 1430.0 | 1397.4 | 1658.5 | 2003.2 | 2121.5 | 1864.5 | 1591.1 | 1442.2 | 1423.9 |
| 57.5° | 10648.4 | 7843.5 | 1289.2 | 1338.2 | 1576.9 | 1909.4 | 2044.0 | 1748.2 | 1513.6 | 1395.3 | 1381.0 |
| 60° | 10395.5 | 7309.1 | 1201.5 | 1289.2 | 1487.1 | 1789.0 | 1909.4 | 1680.9 | 1452.4 | 1346.4 | 1336.2 |
| 62.5° | 9681.5 | 6484.9 | 1134.2 | 1238.2 | 1395.3 | 1662.5 | 1823.7 | 1599.3 | 1385.1 | 1301.5 | 1287.2 |
| 65° | 8245.4 | 5318.1 | 1079.1 | 1185.2 | 1307.6 | 1542.2 | 1729.9 | 1517.7 | 1311.7 | 1248.4 | 1232.1 |
| 67.5° | 5766.9 | 3735.1 | 1020.0 | 1122.0 | 1219.9 | 1425.9 | 1631.9 | 1442.2 | 1236.2 | 1189.3 | 1173.0 |
| 70° | 2819.2 | 1980.8 | 948.6 | 1048.5 | 1126.0 | 1307.6 | 1534.0 | 1350.4 | 1136.2 | 1109.7 | 1087.3 |
| 72.5° | 1342.3 | 1107.7 | 864.9 | 948.6 | 997.5 | 1150.5 | 1370.8 | 1217.8 | 1017.9 | 960.8 | 922.0 |
| 75° | 899.6 | 787.4 | 754.8 | 830.3 | 842.5 | 964.9 | 1175.0 | 1050.6 | 897.6 | 832.3 | 799.7 |
| 77.5° | 681.3 | 601.8 | 634.4 | 701.7 | 677.3 | 793.5 | 966.9 | 936.3 | 809.9 | 750.7 | 734.4 |
| 80° | 479.4 | 438.6 | 503.9 | 544.7 | 526.3 | 675.2 | 871.1 | 801.7 | 667.1 | 601.8 | 589.5 |
| 82.5° | 301.9 | 293.8 | 371.3 | 377.4 | 383.5 | 534.5 | 716.0 | 630.3 | 518.1 | 426.3 | 395.7 |
| 85° | 151.0 | 167.3 | 222.4 | 222.4 | 220.3 | 275.4 | 408.0 | 354.9 | 279.5 | 222.4 | 216.2 |
| 87.5° | 51.0 | 71.4 | 95.9 | 77.5 | 59.2 | 46.9 | 53.0 | 65.3 | 69.4 | 67.3 | 67.3 |
| 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)