

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: P638692

Luminaire Tested: GWS-SA4F-735-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-735-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32977.3 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

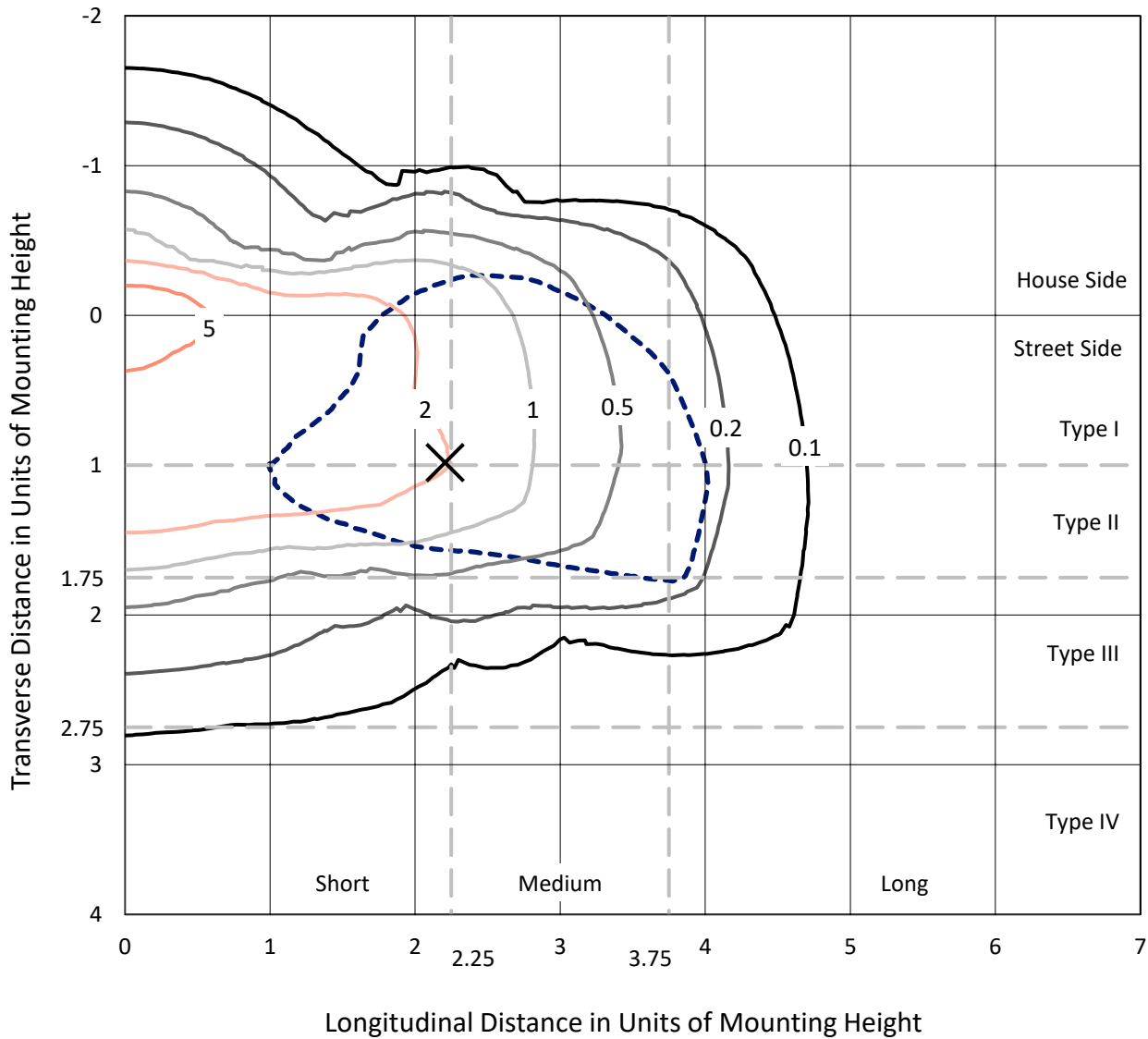
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

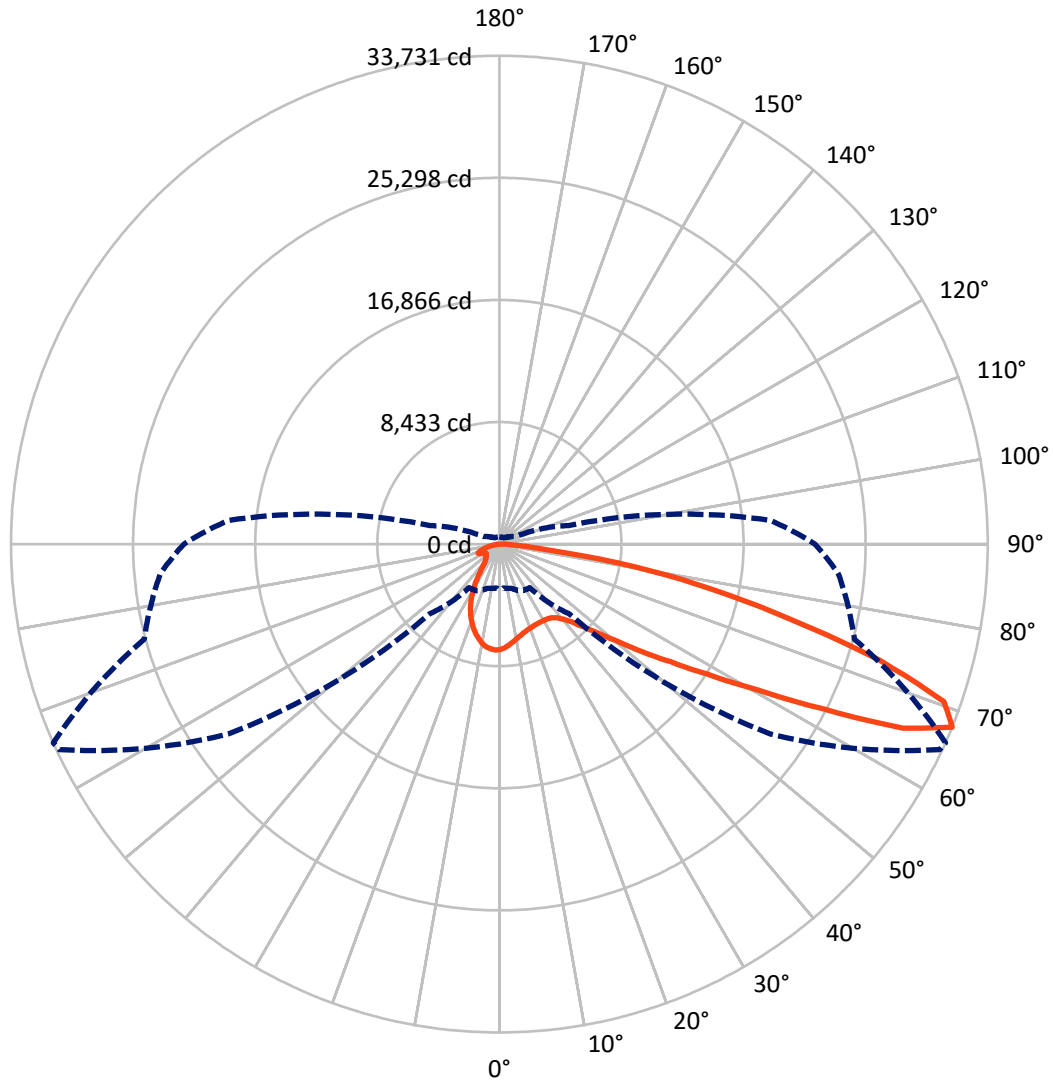
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6691.9 | 0.0 | 6691.9 |
| | % Fixture | 20.3 | 0.0 | 20.3 |
| Street Side | Lumens | 26285.4 | 0.0 | 26285.4 |
| | % Fixture | 79.7 | 0.0 | 79.7 |
| Total | Lumens | 32977.3 | 0.0 | 32977.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 639.5 | 1.9 |
| 10°-20° | 1571.7 | 4.8 |
| 20°-30° | 2160.4 | 6.6 |
| 30°-40° | 2953.6 | 9.0 |
| 40°-50° | 4475.5 | 13.6 |
| 50°-60° | 6957.2 | 21.1 |
| 60°-70° | 8470.3 | 25.7 |
| 70°-80° | 5159.7 | 15.6 |
| 80°-90° | 589.4 | 1.8 |
| 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° | 32977.3 | 100.0 |
| 0°-180° | 32977.3 | 100.0 |

Coefficient of Utilization



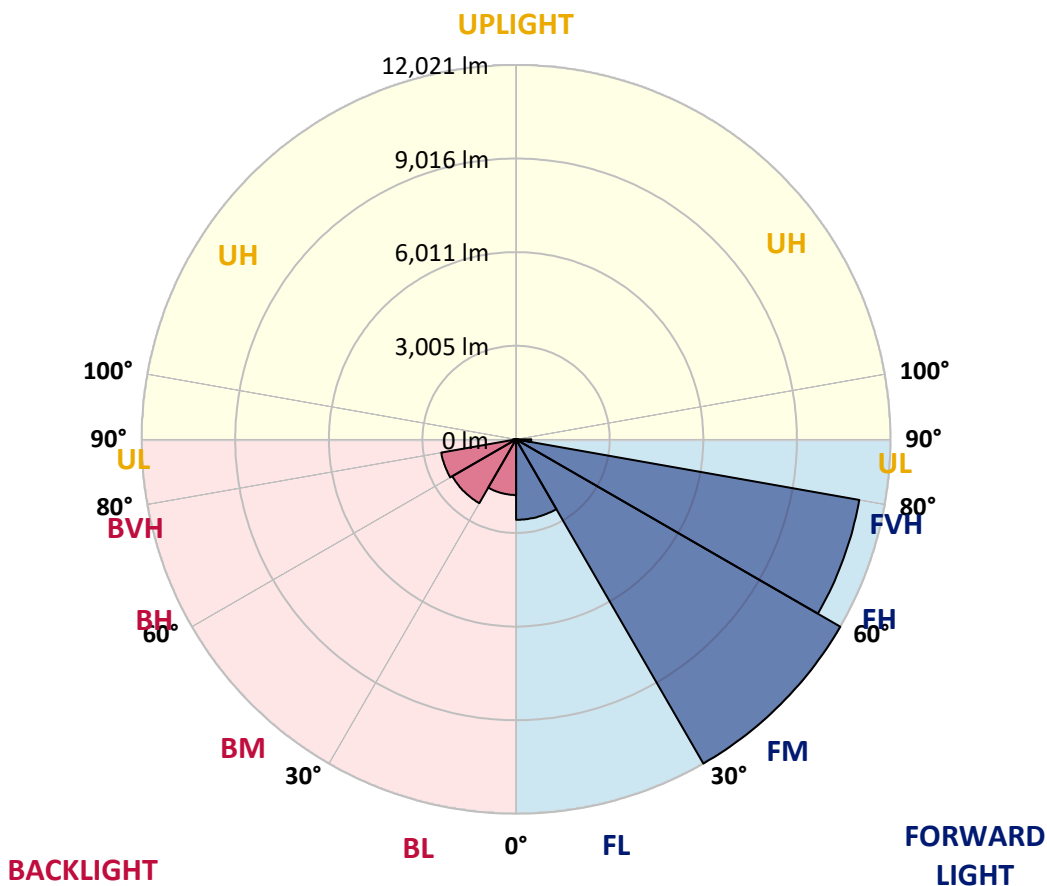
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2583.9 | 7.8 | | | |
| FM (30°-60°) | 12021.5 | 36.5 | | | |
| FH (60°-80°) | 11190.0 | 33.9 | | | G4/12000 |
| FVH (80°-90°) | 490.0 | 1.5 | | | G3/500 |
| BL (0°-30°) | 1787.7 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 2364.8 | 7.2 | B2/2500 | | |
| BH (60°-80°) | 2440.0 | 7.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 99.4 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7287.0 | 7287.0 | 7287.0 | 7287.0 | 7287.0 | 7287.0 | 7287.0 | 7287.0 | 7287.0 | 7287.0 | 7287.0 |
| 2.5° | 6825.1 | 6849.2 | 6834.8 | 6926.2 | 6931.0 | 7046.5 | 7111.4 | 7166.8 | 7171.6 | 7243.7 | 7291.9 |
| 5° | 6358.4 | 6372.9 | 6372.9 | 6459.5 | 6517.2 | 6671.2 | 6820.3 | 6979.1 | 6991.1 | 7164.4 | 7296.7 |
| 7.5° | 5980.7 | 5995.2 | 5985.5 | 6101.0 | 6175.6 | 6346.4 | 6536.4 | 6779.4 | 6803.5 | 7082.6 | 7313.5 |
| 10° | 5684.8 | 5680.0 | 5704.1 | 5809.9 | 5906.1 | 6110.6 | 6322.3 | 6599.0 | 6635.1 | 6988.7 | 7332.8 |
| 12.5° | 5482.7 | 5487.5 | 5502.0 | 5612.6 | 5716.1 | 5918.2 | 6137.1 | 6437.8 | 6476.3 | 6880.5 | 7323.1 |
| 15° | 5386.5 | 5376.9 | 5388.9 | 5489.9 | 5588.6 | 5766.6 | 5992.7 | 6303.1 | 6341.6 | 6784.2 | 7325.5 |
| 17.5° | 5364.8 | 5357.6 | 5355.2 | 5427.4 | 5502.0 | 5668.0 | 5884.5 | 6199.6 | 6240.5 | 6721.7 | 7340.0 |
| 20° | 5432.2 | 5422.6 | 5396.1 | 5427.4 | 5458.7 | 5598.2 | 5807.5 | 6125.1 | 6170.8 | 6680.8 | 7368.8 |
| 22.5° | 5617.4 | 5600.6 | 5559.7 | 5521.2 | 5480.3 | 5564.5 | 5759.4 | 6069.7 | 6115.4 | 6654.3 | 7397.7 |
| 25° | 5898.9 | 5884.5 | 5841.2 | 5754.6 | 5605.4 | 5591.0 | 5749.8 | 6045.7 | 6091.4 | 6635.1 | 7409.7 |
| 27.5° | 6286.3 | 6264.6 | 6221.3 | 6096.2 | 5853.2 | 5689.6 | 5785.9 | 6043.3 | 6086.6 | 6613.4 | 7397.7 |
| 30° | 6745.8 | 6731.3 | 6707.3 | 6555.7 | 6230.9 | 5898.9 | 5867.6 | 6062.5 | 6096.2 | 6601.4 | 7373.7 |
| 32.5° | 7212.5 | 7198.0 | 7217.3 | 7145.1 | 6745.8 | 6245.4 | 6045.7 | 6115.4 | 6139.5 | 6599.0 | 7352.0 |
| 35° | 7623.9 | 7640.7 | 7780.2 | 7792.3 | 7400.1 | 6714.5 | 6327.1 | 6238.1 | 6242.9 | 6647.1 | 7361.6 |
| 37.5° | 8054.5 | 8119.4 | 8302.3 | 8458.7 | 8131.5 | 7335.2 | 6745.8 | 6469.1 | 6464.3 | 6769.8 | 7421.8 |
| 40° | 8624.6 | 8653.5 | 8886.9 | 9180.4 | 8975.9 | 8186.8 | 7340.0 | 6846.8 | 6813.1 | 7020.0 | 7583.0 |
| 42.5° | 9180.4 | 9250.1 | 9623.0 | 9959.8 | 9892.5 | 9146.7 | 8088.2 | 7412.1 | 7352.0 | 7462.7 | 7915.0 |
| 45° | 9887.7 | 9955.0 | 10373.6 | 10806.7 | 10929.4 | 10231.7 | 9045.7 | 8215.7 | 8155.5 | 8129.1 | 8523.6 |
| 47.5° | 10595.0 | 10664.7 | 11040.0 | 11665.5 | 12096.2 | 11588.5 | 10291.8 | 9276.6 | 9178.0 | 9074.5 | 9442.6 |
| 50° | 11071.3 | 11153.1 | 11511.6 | 12262.2 | 13272.6 | 13282.2 | 11769.0 | 10667.1 | 10542.0 | 10378.4 | 10736.9 |
| 52.5° | 11054.5 | 11107.4 | 11449.0 | 12315.1 | 14119.4 | 15228.5 | 13746.5 | 12437.8 | 12336.7 | 11980.7 | 12293.4 |
| 55° | 10186.0 | 10265.4 | 10609.4 | 11692.0 | 14210.8 | 17073.7 | 16652.7 | 14526.0 | 14345.5 | 13708.0 | 14052.0 |
| 57.5° | 8441.8 | 8509.2 | 8855.6 | 10190.8 | 13400.1 | 18019.1 | 20343.1 | 17186.7 | 16939.0 | 15589.3 | 15986.3 |
| 60° | 6372.9 | 6291.1 | 6454.7 | 7623.9 | 11461.0 | 18043.2 | 23600.5 | 20795.4 | 20381.6 | 17600.5 | 17932.5 |
| 62.5° | 4782.7 | 4700.9 | 4736.9 | 5066.5 | 7770.6 | 16585.3 | 25457.8 | 25732.0 | 25048.8 | 19871.6 | 19806.6 |
| 65° | 3779.4 | 3733.7 | 3837.2 | 4063.3 | 4530.0 | 12630.2 | 25472.2 | 31070.4 | 30639.8 | 22503.5 | 21728.8 |
| 67.5° | 3079.4 | 3050.5 | 3156.4 | 3575.0 | 3673.6 | 6786.6 | 22840.3 | 33562.8 | 33731.2 | 25385.6 | 23511.5 |
| 70° | 2480.3 | 2437.0 | 2603.0 | 3154.0 | 3416.2 | 4106.6 | 16361.6 | 32292.5 | 32564.4 | 27103.3 | 23008.7 |
| 72.5° | 1712.9 | 1715.3 | 1799.5 | 2554.9 | 3298.3 | 3546.1 | 9255.0 | 26889.2 | 27478.6 | 25546.8 | 20227.6 |
| 75° | 1154.8 | 1164.4 | 1188.4 | 1686.4 | 3038.5 | 3440.2 | 4931.8 | 20357.5 | 20773.7 | 21115.4 | 16720.0 |
| 77.5° | 697.7 | 702.5 | 757.8 | 1020.0 | 2095.4 | 3211.7 | 3341.6 | 14756.9 | 15084.1 | 13919.7 | 10364.0 |
| 80° | 404.2 | 421.0 | 471.5 | 683.2 | 1414.6 | 2413.0 | 2586.2 | 9048.1 | 9418.6 | 6187.6 | 3293.5 |
| 82.5° | 178.0 | 190.1 | 257.4 | 397.0 | 825.2 | 2052.1 | 2018.4 | 3575.0 | 3522.0 | 1724.9 | 1142.7 |
| 85° | 31.3 | 38.5 | 55.3 | 125.1 | 303.1 | 1082.6 | 1566.1 | 1578.2 | 1484.4 | 654.4 | 473.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.2 | 235.8 | 423.4 | 421.0 | 185.2 | 163.6 |
| 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° | 7287.0 | 7287.0 | 7287.0 | 7287.0 | 7287.0 | 7287.0 | 7287.0 | 7287.0 | 7287.0 | 7287.0 | 7287.0 |
| 2.5° | 7323.1 | 7258.2 | 7315.9 | 7323.1 | 7311.1 | 7301.5 | 7229.3 | 7166.8 | 7159.5 | 7092.2 | 7092.2 |
| 5° | 7349.6 | 7289.5 | 7318.3 | 7263.0 | 7176.4 | 7087.4 | 6933.4 | 6827.5 | 6779.4 | 6692.8 | 6692.8 |
| 7.5° | 7385.7 | 7323.1 | 7289.5 | 7152.3 | 6950.2 | 6755.4 | 6507.6 | 6300.7 | 6216.5 | 6093.8 | 6089.0 |
| 10° | 7419.4 | 7340.0 | 7224.5 | 6957.5 | 6635.1 | 6324.7 | 5963.9 | 5670.4 | 5470.7 | 5323.9 | 5323.9 |
| 12.5° | 7417.0 | 7313.5 | 7085.0 | 6690.4 | 6245.4 | 5795.5 | 5314.3 | 4871.7 | 4607.0 | 4378.5 | 4364.0 |
| 15° | 7412.1 | 7270.2 | 6906.9 | 6380.1 | 5790.7 | 5167.6 | 4513.2 | 3935.8 | 3543.7 | 3319.9 | 3300.7 |
| 17.5° | 7407.3 | 7214.9 | 6707.3 | 6026.4 | 5237.3 | 4388.1 | 3524.4 | 2898.9 | 2571.8 | 2434.6 | 2439.4 |
| 20° | 7407.3 | 7152.3 | 6493.1 | 5619.9 | 4599.8 | 3454.7 | 2586.2 | 2131.5 | 2049.7 | 2056.9 | 2064.1 |
| 22.5° | 7385.7 | 7075.3 | 6255.0 | 5177.2 | 3890.1 | 2540.5 | 1907.8 | 1753.8 | 1797.1 | 1864.5 | 1874.1 |
| 25° | 7335.2 | 6947.8 | 5978.3 | 4686.4 | 3045.7 | 1850.0 | 1556.5 | 1527.7 | 1607.0 | 1691.2 | 1715.3 |
| 27.5° | 7255.8 | 6801.1 | 5668.0 | 4111.4 | 2242.2 | 1486.8 | 1368.9 | 1366.5 | 1429.0 | 1491.6 | 1513.2 |
| 30° | 7171.6 | 6637.5 | 5340.8 | 3471.5 | 1623.9 | 1294.3 | 1248.6 | 1248.6 | 1279.9 | 1318.4 | 1313.5 |
| 32.5° | 7072.9 | 6471.5 | 4989.5 | 2805.1 | 1323.2 | 1186.0 | 1171.6 | 1164.4 | 1169.2 | 1183.6 | 1183.6 |
| 35° | 6988.7 | 6324.7 | 4628.7 | 2100.2 | 1186.0 | 1125.9 | 1111.5 | 1094.6 | 1087.4 | 1077.8 | 1082.6 |
| 37.5° | 6957.5 | 6209.3 | 4255.8 | 1583.0 | 1118.7 | 1082.6 | 1058.5 | 1034.5 | 1017.6 | 1012.8 | 1010.4 |
| 40° | 7008.0 | 6161.2 | 3882.9 | 1303.9 | 1070.6 | 1036.9 | 1010.4 | 979.1 | 964.7 | 964.7 | 964.7 |
| 42.5° | 7205.3 | 6197.2 | 3502.8 | 1178.8 | 1036.9 | 998.4 | 959.9 | 931.0 | 926.2 | 931.0 | 933.4 |
| 45° | 7566.1 | 6336.8 | 3108.2 | 1116.3 | 1008.0 | 959.9 | 914.2 | 892.5 | 892.5 | 897.3 | 897.3 |
| 47.5° | 8210.9 | 6702.4 | 2718.5 | 1077.8 | 979.1 | 928.6 | 880.5 | 858.9 | 856.5 | 861.3 | 861.3 |
| 50° | 9327.1 | 7361.6 | 2367.3 | 1051.3 | 957.5 | 904.6 | 856.5 | 827.6 | 820.4 | 818.0 | 818.0 |
| 52.5° | 10734.5 | 8504.4 | 2143.5 | 1032.1 | 931.0 | 878.1 | 830.0 | 791.5 | 777.1 | 769.8 | 769.8 |
| 55° | 12435.4 | 10027.2 | 2143.5 | 1017.6 | 897.3 | 846.8 | 791.5 | 753.0 | 731.4 | 721.7 | 721.7 |
| 57.5° | 14362.4 | 11800.3 | 2514.0 | 1005.6 | 870.9 | 810.7 | 750.6 | 712.1 | 688.0 | 673.6 | 673.6 |
| 60° | 16323.1 | 13674.3 | 3430.6 | 988.8 | 846.8 | 765.0 | 704.9 | 668.8 | 637.5 | 620.7 | 618.3 |
| 62.5° | 18355.9 | 15738.5 | 4638.3 | 998.4 | 830.0 | 721.7 | 656.8 | 615.9 | 589.4 | 572.6 | 570.2 |
| 65° | 20218.0 | 17704.0 | 5694.4 | 1073.0 | 832.4 | 683.2 | 601.4 | 565.4 | 543.7 | 522.0 | 519.6 |
| 67.5° | 21798.6 | 18789.0 | 4953.5 | 1224.5 | 882.9 | 637.5 | 546.1 | 510.0 | 490.8 | 476.3 | 473.9 |
| 70° | 20691.9 | 17133.8 | 2809.9 | 1318.4 | 952.7 | 589.4 | 483.6 | 459.5 | 440.3 | 430.6 | 428.2 |
| 72.5° | 17694.4 | 14506.7 | 1878.9 | 1164.4 | 868.5 | 526.9 | 425.8 | 406.6 | 392.1 | 380.1 | 377.7 |
| 75° | 14333.5 | 11504.3 | 1436.2 | 955.1 | 676.0 | 428.2 | 365.7 | 351.2 | 336.8 | 324.8 | 322.4 |
| 77.5° | 8480.3 | 6647.1 | 1058.5 | 755.4 | 476.3 | 334.4 | 303.1 | 291.1 | 276.7 | 267.0 | 264.6 |
| 80° | 2706.5 | 2309.5 | 671.2 | 519.6 | 315.2 | 257.4 | 233.4 | 223.7 | 209.3 | 197.3 | 194.9 |
| 82.5° | 1032.1 | 892.5 | 356.1 | 264.6 | 209.3 | 175.6 | 156.4 | 146.8 | 137.1 | 125.1 | 122.7 |
| 85° | 457.1 | 428.2 | 197.3 | 141.9 | 113.1 | 86.6 | 77.0 | 72.2 | 60.1 | 50.5 | 48.1 |
| 87.5° | 161.2 | 161.2 | 84.2 | 40.9 | 24.1 | 12.0 | 7.2 | 2.4 | 0.0 | 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)