

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: P640015

Luminaire Tested: GWS-SA5D-722-U-SL3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-722-U-SL3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17921.9 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

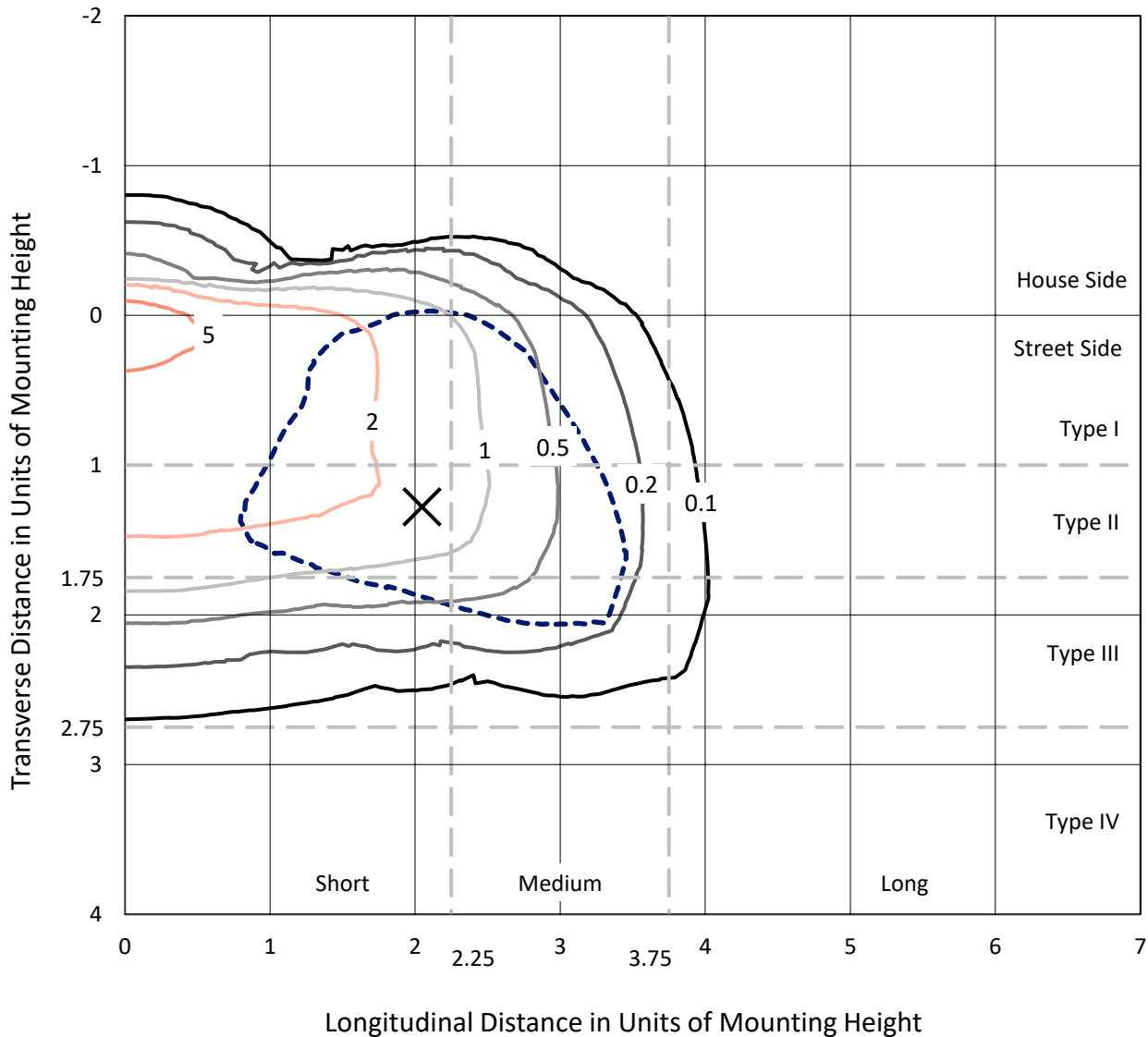
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

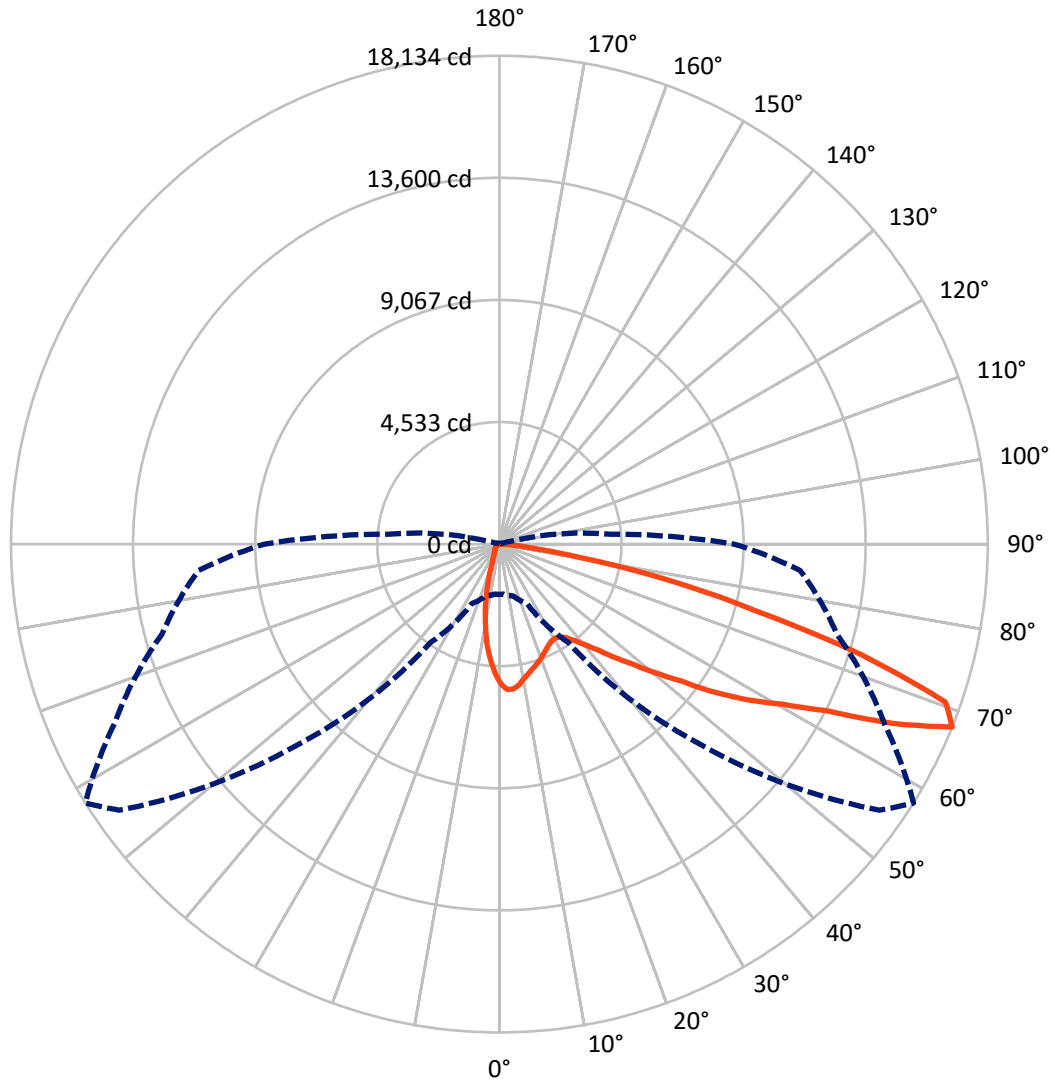
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1750.9 | 0.0 | 1750.9 |
| | % Fixture | 9.8 | 0.0 | 9.8 |
| Street Side | Lumens | 16171.0 | 0.0 | 16171.0 |
| | % Fixture | 90.2 | 0.0 | 90.2 |
| Total | Lumens | 17921.9 | 0.0 | 17921.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 420.1 | 2.3 |
| 10°-20° | 874.4 | 4.9 |
| 20°-30° | 1179.2 | 6.6 |
| 30°-40° | 1657.1 | 9.2 |
| 40°-50° | 2559.2 | 14.3 |
| 50°-60° | 4092.5 | 22.8 |
| 60°-70° | 4845.8 | 27.0 |
| 70°-80° | 2143.7 | 12.0 |
| 80°-90° | 149.9 | 0.8 |
| 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° | 17921.9 | 100.0 |
| 0°-180° | 17921.9 | 100.0 |

Coefficient of Utilization



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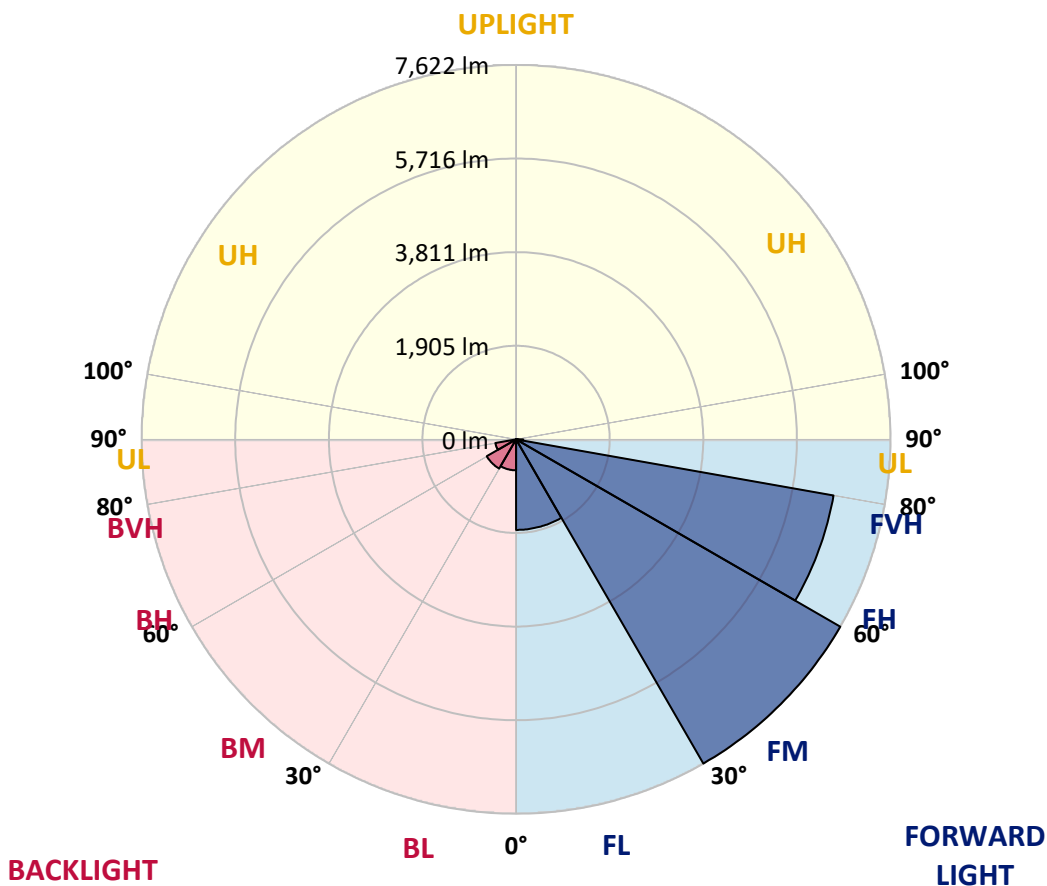
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1843.7 | 10.3 | | | |
| FM (30°-60°) | 7621.8 | 42.5 | | | |
| FH (60°-80°) | 6562.0 | 36.6 | | | G3/7500 |
| FVH (80°-90°) | 143.5 | 0.8 | | | G2/225 |
| BL (0°-30°) | 630.1 | 3.5 | B2/1000 | | |
| BM (30°-60°) | 687.0 | 3.8 | B1/1000 | | |
| BH (60°-80°) | 427.4 | 2.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 6.4 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 5169.5 | 5169.5 | 5169.5 | 5169.5 | 5169.5 | 5169.5 | 5169.5 | 5169.5 | 5169.5 | 5169.5 | 5169.5 |
| 2.5° | 5437.6 | 5447.1 | 5459.8 | 5475.7 | 5472.5 | 5458.2 | 5440.8 | 5401.1 | 5375.7 | 5296.4 | 5199.7 |
| 5° | 5263.1 | 5261.5 | 5293.2 | 5323.4 | 5377.3 | 5405.9 | 5445.5 | 5409.0 | 5396.3 | 5301.2 | 5144.1 |
| 7.5° | 4922.1 | 4939.5 | 4976.0 | 5023.6 | 5101.3 | 5185.4 | 5280.6 | 5269.4 | 5307.5 | 5244.1 | 5049.0 |
| 10° | 4587.4 | 4577.9 | 4635.0 | 4706.3 | 4825.3 | 4933.2 | 5071.2 | 5069.6 | 5169.5 | 5163.2 | 4941.1 |
| 12.5° | 4293.9 | 4292.3 | 4336.7 | 4417.6 | 4557.2 | 4707.9 | 4895.1 | 4899.9 | 5023.6 | 5074.3 | 4849.1 |
| 15° | 4046.5 | 4049.6 | 4092.5 | 4176.5 | 4320.9 | 4504.9 | 4722.2 | 4761.9 | 4901.4 | 5004.5 | 4758.7 |
| 17.5° | 3870.4 | 3872.0 | 3897.4 | 3970.3 | 4111.5 | 4308.2 | 4569.9 | 4623.9 | 4803.1 | 4952.2 | 4685.7 |
| 20° | 3789.5 | 3783.2 | 3787.9 | 3824.4 | 3933.8 | 4113.1 | 4414.5 | 4484.3 | 4712.7 | 4915.7 | 4619.1 |
| 22.5° | 3800.6 | 3791.1 | 3768.9 | 3764.1 | 3813.3 | 3949.7 | 4249.5 | 4335.2 | 4614.3 | 4893.5 | 4558.8 |
| 25° | 3898.9 | 3878.3 | 3846.6 | 3799.0 | 3780.0 | 3848.2 | 4105.2 | 4194.0 | 4522.3 | 4895.1 | 4512.8 |
| 27.5° | 4049.6 | 4027.4 | 3987.8 | 3924.3 | 3849.8 | 3821.2 | 4006.8 | 4090.9 | 4457.3 | 4931.6 | 4490.6 |
| 30° | 4241.6 | 4224.1 | 4186.1 | 4109.9 | 4010.0 | 3892.6 | 3986.2 | 4056.0 | 4425.6 | 5006.1 | 4500.1 |
| 32.5° | 4468.4 | 4455.7 | 4424.0 | 4354.2 | 4240.0 | 4060.7 | 4056.0 | 4109.9 | 4451.0 | 5114.0 | 4536.6 |
| 35° | 4687.3 | 4692.1 | 4693.6 | 4655.6 | 4533.4 | 4316.1 | 4247.9 | 4267.0 | 4555.6 | 5275.8 | 4619.1 |
| 37.5° | 4923.7 | 4912.5 | 4969.7 | 4996.6 | 4879.2 | 4647.6 | 4544.5 | 4546.1 | 4755.5 | 5515.3 | 4774.5 |
| 40° | 5102.9 | 5106.1 | 5229.8 | 5340.8 | 5291.7 | 5068.0 | 4920.5 | 4918.9 | 5063.2 | 5843.7 | 5025.2 |
| 42.5° | 5271.0 | 5291.7 | 5474.1 | 5664.4 | 5732.6 | 5534.3 | 5428.1 | 5388.4 | 5494.7 | 6287.8 | 5401.1 |
| 45° | 5450.3 | 5480.4 | 5735.8 | 6007.0 | 6186.3 | 6068.9 | 5984.8 | 6000.7 | 6013.4 | 6804.9 | 5907.1 |
| 47.5° | 5659.7 | 5678.7 | 5994.4 | 6376.6 | 6711.3 | 6681.2 | 6686.0 | 6666.9 | 6660.6 | 7456.9 | 6576.5 |
| 50° | 5913.5 | 5957.9 | 6321.1 | 6778.0 | 7234.8 | 7434.7 | 7501.3 | 7509.2 | 7406.1 | 8167.5 | 7269.7 |
| 52.5° | 6452.8 | 6506.7 | 6817.6 | 7217.3 | 7805.8 | 8226.2 | 8497.4 | 8443.5 | 8284.9 | 8855.9 | 8029.5 |
| 55° | 7088.9 | 7130.1 | 7429.9 | 7843.9 | 8503.8 | 9093.8 | 9737.9 | 9715.6 | 9327.0 | 9580.8 | 8654.5 |
| 57.5° | 7149.1 | 7195.1 | 7659.9 | 8294.4 | 9400.0 | 10166.1 | 10843.5 | 10914.8 | 10345.4 | 10094.8 | 9212.8 |
| 60° | 6471.8 | 6565.4 | 7199.9 | 8053.3 | 9742.6 | 11608.0 | 12055.3 | 12069.6 | 11092.5 | 10616.6 | 9894.9 |
| 62.5° | 5187.0 | 5231.4 | 5870.6 | 6984.2 | 9214.4 | 12448.7 | 13906.5 | 13605.1 | 12052.2 | 11424.0 | 10975.1 |
| 65° | 2718.8 | 2899.6 | 3456.4 | 4688.9 | 7472.7 | 12155.3 | 16133.5 | 16051.0 | 13778.0 | 12580.4 | 11815.8 |
| 67.5° | 1865.4 | 1863.8 | 1995.5 | 2444.4 | 4455.7 | 10465.9 | 17226.4 | 18133.8 | 15773.5 | 12976.9 | 11206.7 |
| 70° | 1419.7 | 1424.4 | 1541.8 | 1833.7 | 2308.0 | 6966.7 | 16027.2 | 17578.6 | 16144.6 | 11782.5 | 9063.7 |
| 72.5° | 942.2 | 951.7 | 1146.8 | 1481.5 | 1843.2 | 3415.1 | 12455.1 | 14065.1 | 13584.5 | 9463.4 | 6379.8 |
| 75° | 563.1 | 571.0 | 710.6 | 1077.0 | 1638.6 | 1911.4 | 7913.7 | 9723.6 | 9350.8 | 6522.6 | 3419.9 |
| 77.5° | 231.6 | 237.9 | 364.8 | 671.0 | 1199.2 | 1484.7 | 4376.4 | 6362.4 | 5601.0 | 2593.5 | 934.3 |
| 80° | 96.8 | 99.9 | 176.1 | 469.5 | 864.5 | 931.1 | 2027.2 | 2990.0 | 2295.3 | 558.4 | 285.5 |
| 82.5° | 34.9 | 36.5 | 65.0 | 258.6 | 537.7 | 701.1 | 1023.1 | 1181.7 | 647.2 | 182.4 | 153.9 |
| 85° | 1.6 | 1.6 | 15.9 | 87.2 | 204.6 | 198.3 | 585.3 | 566.3 | 214.1 | 76.1 | 92.0 |
| 87.5° | 0.0 | 0.0 | 1.6 | 1.6 | 3.2 | 7.9 | 55.5 | 98.3 | 46.0 | 19.0 | 39.7 |
| 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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CATALOG NUMBER: GWS-SA5D-722-U-SL3-W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5169.5 | 5169.5 | 5169.5 | 5169.5 | 5169.5 | 5169.5 | 5169.5 | 5169.5 | 5169.5 | 5169.5 | 5169.5 |
| 2.5° | 5136.2 | 5052.1 | 4960.1 | 4874.5 | 4738.1 | 4657.2 | 4557.2 | 4512.8 | 4449.4 | 4433.5 | 4443.0 |
| 5° | 5031.5 | 4887.2 | 4666.7 | 4466.8 | 4208.3 | 4000.5 | 3791.1 | 3702.3 | 3588.0 | 3511.9 | 3480.2 |
| 7.5° | 4884.0 | 4695.2 | 4351.0 | 3987.8 | 3632.5 | 3253.4 | 2964.7 | 2774.3 | 2601.4 | 2506.2 | 2487.2 |
| 10° | 4734.9 | 4489.0 | 3995.7 | 3475.4 | 2925.0 | 2471.3 | 2081.1 | 1792.4 | 1557.7 | 1451.4 | 1368.9 |
| 12.5° | 4581.0 | 4274.9 | 3634.0 | 2955.1 | 2315.9 | 1697.3 | 1215.1 | 934.3 | 766.1 | 699.5 | 710.6 |
| 15° | 4439.9 | 4068.7 | 3275.6 | 2434.9 | 1630.6 | 1024.7 | 671.0 | 566.3 | 526.6 | 513.9 | 512.4 |
| 17.5° | 4305.0 | 3873.6 | 2918.7 | 1928.9 | 1075.5 | 628.1 | 513.9 | 488.6 | 477.5 | 471.1 | 471.1 |
| 20° | 4182.9 | 3686.4 | 2569.7 | 1453.0 | 694.8 | 498.1 | 464.8 | 452.1 | 442.6 | 437.8 | 437.8 |
| 22.5° | 4068.7 | 3505.6 | 2228.7 | 1027.9 | 512.4 | 447.3 | 426.7 | 414.0 | 402.9 | 396.6 | 396.6 |
| 25° | 3965.6 | 3342.2 | 1903.5 | 707.5 | 441.0 | 409.2 | 387.0 | 372.8 | 353.7 | 342.6 | 342.6 |
| 27.5° | 3891.0 | 3196.2 | 1591.0 | 515.5 | 398.1 | 368.0 | 342.6 | 323.6 | 303.0 | 290.3 | 287.1 |
| 30° | 3846.6 | 3072.5 | 1275.3 | 423.5 | 358.5 | 328.3 | 299.8 | 276.0 | 252.2 | 239.5 | 237.9 |
| 32.5° | 3821.2 | 2958.3 | 986.6 | 369.6 | 325.2 | 290.3 | 258.6 | 233.2 | 209.4 | 195.1 | 193.5 |
| 35° | 3830.7 | 2869.5 | 739.2 | 333.1 | 293.5 | 257.0 | 222.1 | 196.7 | 176.1 | 163.4 | 160.2 |
| 37.5° | 3913.2 | 2829.8 | 555.2 | 304.6 | 266.5 | 228.4 | 191.9 | 168.1 | 149.1 | 139.6 | 138.0 |
| 40° | 4073.4 | 2837.8 | 436.2 | 282.3 | 244.3 | 199.9 | 165.0 | 142.8 | 128.5 | 120.6 | 119.0 |
| 42.5° | 4322.5 | 2904.4 | 360.1 | 263.3 | 220.5 | 174.5 | 142.8 | 125.3 | 111.0 | 103.1 | 101.5 |
| 45° | 4693.6 | 3042.4 | 314.1 | 241.1 | 195.1 | 150.7 | 123.7 | 107.9 | 95.2 | 85.7 | 84.1 |
| 47.5° | 5231.4 | 3281.9 | 283.9 | 220.5 | 172.9 | 130.1 | 106.3 | 90.4 | 79.3 | 71.4 | 69.8 |
| 50° | 5804.0 | 3569.0 | 258.6 | 199.9 | 153.9 | 112.6 | 90.4 | 74.6 | 65.0 | 57.1 | 55.5 |
| 52.5° | 6414.7 | 3878.3 | 239.5 | 180.8 | 136.4 | 96.8 | 76.1 | 61.9 | 52.3 | 44.4 | 42.8 |
| 55° | 7001.6 | 4189.2 | 217.3 | 168.1 | 115.8 | 82.5 | 63.4 | 50.8 | 41.2 | 34.9 | 34.9 |
| 57.5° | 7572.7 | 4474.7 | 193.5 | 147.5 | 95.2 | 69.8 | 52.3 | 41.2 | 33.3 | 28.6 | 27.0 |
| 60° | 8254.7 | 4869.7 | 166.6 | 125.3 | 79.3 | 58.7 | 42.8 | 33.3 | 27.0 | 22.2 | 22.2 |
| 62.5° | 9268.3 | 5280.6 | 142.8 | 104.7 | 66.6 | 49.2 | 34.9 | 27.0 | 22.2 | 19.0 | 17.4 |
| 65° | 9599.9 | 5058.5 | 120.6 | 85.7 | 53.9 | 39.7 | 28.6 | 23.8 | 19.0 | 17.4 | 15.9 |
| 67.5° | 8714.7 | 4146.4 | 99.9 | 69.8 | 44.4 | 33.3 | 25.4 | 20.6 | 17.4 | 15.9 | 14.3 |
| 70° | 6800.2 | 2942.5 | 77.7 | 52.3 | 36.5 | 27.0 | 22.2 | 19.0 | 15.9 | 14.3 | 14.3 |
| 72.5° | 4625.4 | 1740.1 | 61.9 | 39.7 | 30.1 | 23.8 | 19.0 | 17.4 | 15.9 | 14.3 | 12.7 |
| 75° | 2277.8 | 618.6 | 47.6 | 30.1 | 23.8 | 20.6 | 17.4 | 15.9 | 14.3 | 12.7 | 12.7 |
| 77.5° | 613.9 | 171.3 | 36.5 | 23.8 | 19.0 | 15.9 | 15.9 | 15.9 | 14.3 | 11.1 | 11.1 |
| 80° | 207.8 | 71.4 | 27.0 | 17.4 | 15.9 | 12.7 | 11.1 | 14.3 | 12.7 | 11.1 | 9.5 |
| 82.5° | 114.2 | 34.9 | 19.0 | 14.3 | 11.1 | 9.5 | 9.5 | 9.5 | 9.5 | 7.9 | 7.9 |
| 85° | 73.0 | 19.0 | 12.7 | 11.1 | 11.1 | 7.9 | 6.3 | 6.3 | 4.8 | 4.8 | 4.8 |
| 87.5° | 33.3 | 11.1 | 11.1 | 9.5 | 9.5 | 7.9 | 4.8 | 3.2 | 1.6 | 1.6 | 1.6 |
| 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)