

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: STREETWORKS

Report Number: P479189

Luminaire Tested: **IFLD-S-SA6E-722-U-5MQ**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P479189
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-722-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ
distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

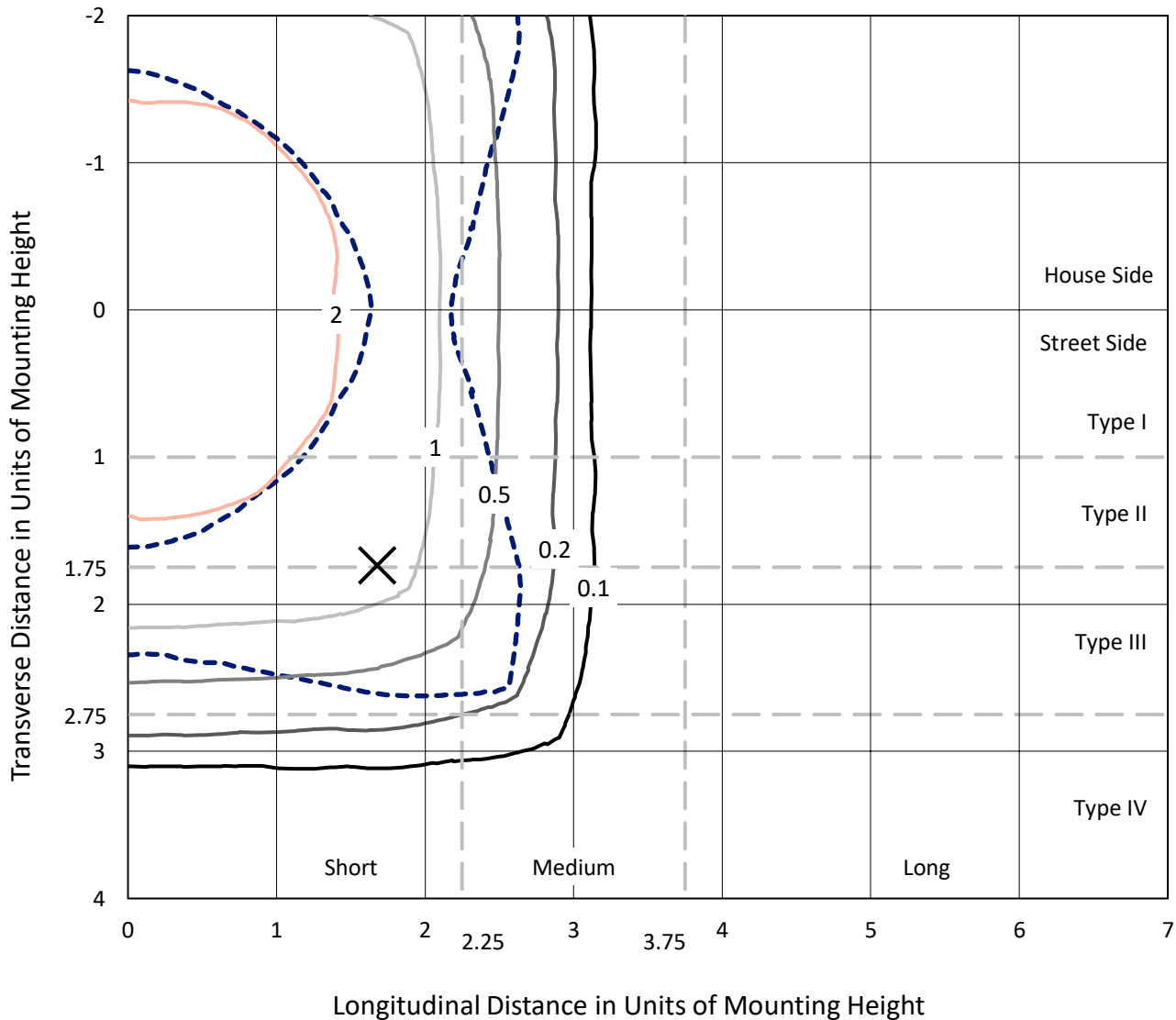
Lumens per Lamp: N/A
Luminaire Lumens: 39342.4 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (A_{in}): 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

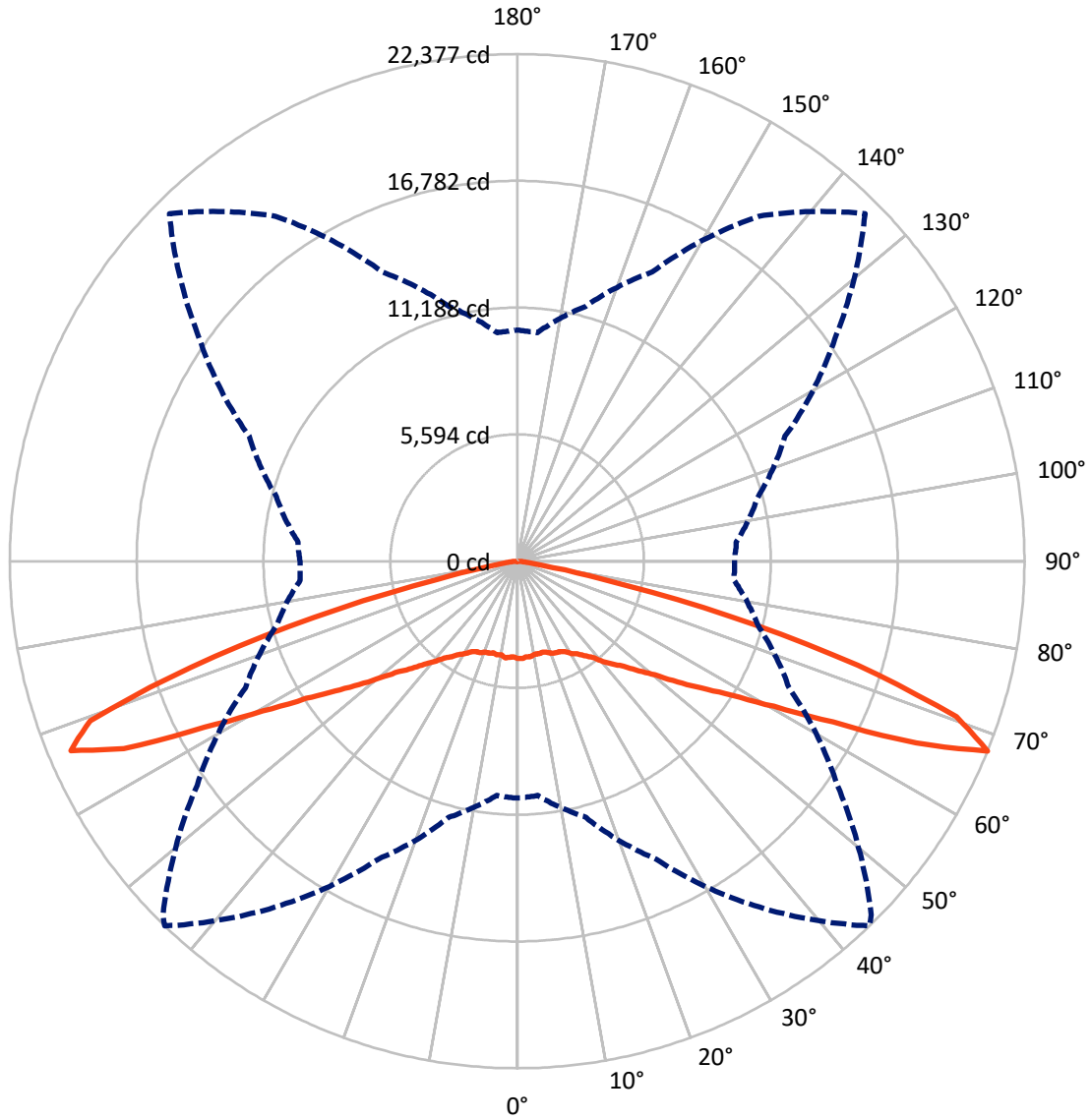
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 19620.8 | 0.0 | 19620.8 |
| | % Fixture | 49.9 | 0.0 | 49.9 |
| Street Side | Lumens | 19721.6 | 0.0 | 19721.6 |
| | % Fixture | 50.1 | 0.0 | 50.1 |
| Total | Lumens | 39342.4 | 0.0 | 39342.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 406.7 | 1.0 |
| 10°-20° | 1188.1 | 3.0 |
| 20°-30° | 2020.4 | 5.1 |
| 30°-40° | 3203.4 | 8.1 |
| 40°-50° | 5223.4 | 13.3 |
| 50°-60° | 8920.9 | 22.7 |
| 60°-70° | 13568.6 | 34.5 |
| 70°-80° | 4573.5 | 11.6 |
| 80°-90° | 237.5 | 0.6 |
| 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° | 39342.4 | 100.0 |
| 0°-180° | 39342.4 | 100.0 |

Coefficient of Utilization

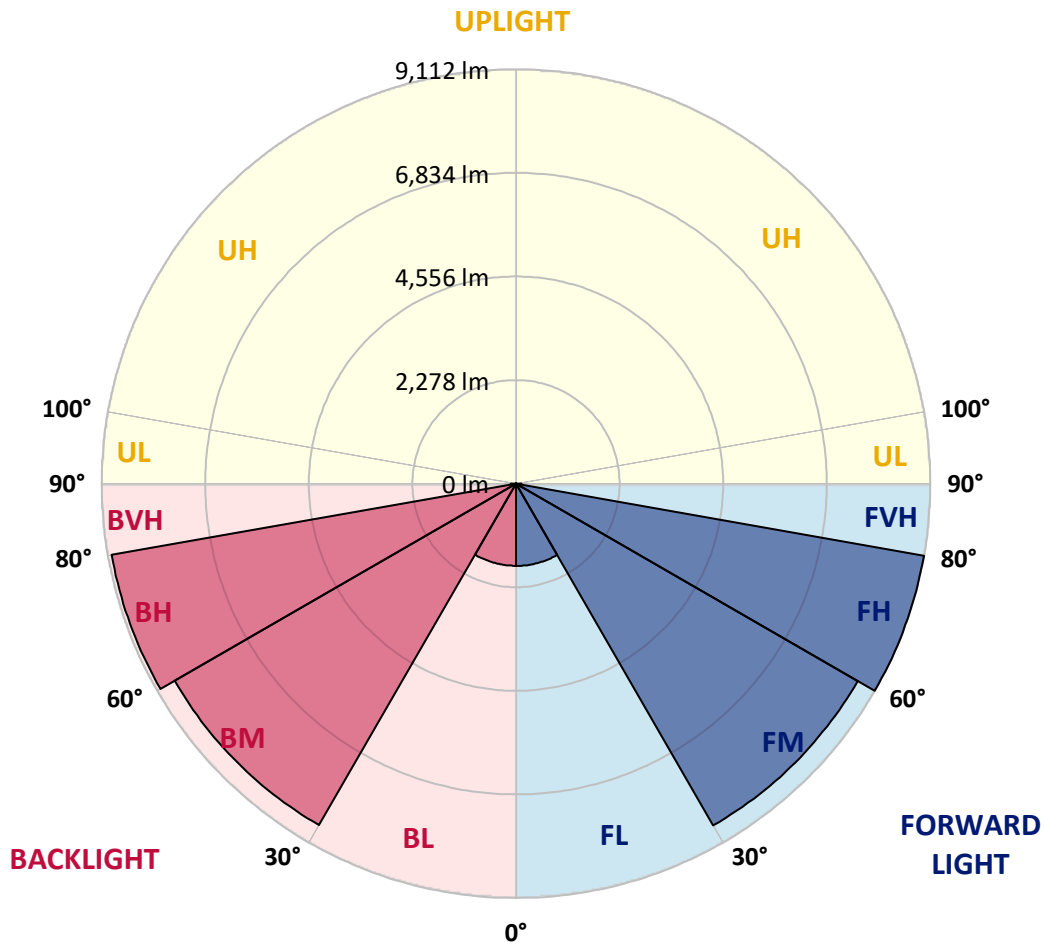


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1809.4 | 4.6 | | | |
| FM (30°-60°) | 8678.6 | 22.1 | | | |
| FH (60°-80°) | 9112.1 | 23.2 | | | G4/12000 |
| FVH (80°-90°) | 121.5 | 0.3 | | | G2/225 |
| BL (0°-30°) | 1805.7 | 4.6 | B3/2500 | | |
| BM (30°-60°) | 8669.2 | 22.0 | B5 | | |
| BH (60°-80°) | 9030.0 | 23.0 | B5 | | G4/12000 |
| BVH (80°-90°) | 116.0 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G4
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4297.5 | 4297.5 | 4297.5 | 4297.5 | 4297.5 | 4297.5 | 4297.5 | 4297.5 | 4297.5 | 4297.5 | 4297.5 |
| 2.5° | 4198.7 | 4248.1 | 4284.0 | 4279.5 | 4293.0 | 4306.5 | 4288.5 | 4315.4 | 4297.5 | 4328.9 | 4346.9 |
| 5° | 4279.5 | 4266.0 | 4270.5 | 4243.6 | 4306.5 | 4234.6 | 4234.6 | 4270.5 | 4315.4 | 4261.6 | 4293.0 |
| 7.5° | 4230.1 | 4221.1 | 4198.7 | 4239.1 | 4252.6 | 4252.6 | 4288.5 | 4221.1 | 4297.5 | 4315.4 | 4319.9 |
| 10° | 4176.2 | 4126.8 | 4194.2 | 4234.6 | 4243.6 | 4171.7 | 4203.2 | 4221.1 | 4198.7 | 4221.1 | 4234.6 |
| 12.5° | 4131.3 | 4158.3 | 4158.3 | 4158.3 | 4144.8 | 4194.2 | 4225.6 | 4221.1 | 4176.2 | 4216.6 | 4144.8 |
| 15° | 4126.8 | 4113.4 | 4153.8 | 4189.7 | 4167.3 | 4176.2 | 4189.7 | 4230.1 | 4144.8 | 4162.8 | 4162.8 |
| 17.5° | 4122.3 | 4140.3 | 4153.8 | 4149.3 | 4225.6 | 4225.6 | 4212.2 | 4185.2 | 4252.6 | 4216.6 | 4167.3 |
| 20° | 4140.3 | 4126.8 | 4162.8 | 4176.2 | 4230.1 | 4337.9 | 4297.5 | 4275.0 | 4239.1 | 4194.2 | 4194.2 |
| 22.5° | 4162.8 | 4153.8 | 4203.2 | 4261.6 | 4364.8 | 4391.8 | 4387.3 | 4360.3 | 4297.5 | 4243.6 | 4234.6 |
| 25° | 4243.6 | 4162.8 | 4216.6 | 4328.9 | 4364.8 | 4418.7 | 4454.6 | 4418.7 | 4333.4 | 4346.9 | 4266.0 |
| 27.5° | 4364.8 | 4351.4 | 4423.2 | 4499.6 | 4468.1 | 4517.5 | 4486.1 | 4513.0 | 4517.5 | 4450.2 | 4369.3 |
| 30° | 4508.5 | 4468.1 | 4513.0 | 4661.2 | 4674.7 | 4728.6 | 4674.7 | 4602.8 | 4625.3 | 4566.9 | 4526.5 |
| 32.5° | 4715.1 | 4701.6 | 4787.0 | 4885.7 | 4903.7 | 4876.8 | 4849.8 | 4890.2 | 4795.9 | 4751.0 | 4679.2 |
| 35° | 4849.8 | 4908.2 | 5011.5 | 5087.8 | 5146.2 | 5119.3 | 5132.7 | 5092.3 | 5114.8 | 5020.5 | 4989.0 |
| 37.5° | 5249.5 | 5227.0 | 5249.5 | 5379.7 | 5393.2 | 5379.7 | 5393.2 | 5438.1 | 5406.7 | 5325.8 | 5245.0 |
| 40° | 5626.7 | 5590.8 | 5644.7 | 5792.8 | 5783.9 | 5828.8 | 5739.0 | 5788.4 | 5788.4 | 5635.7 | 5604.2 |
| 42.5° | 5909.6 | 6030.8 | 6093.7 | 6215.0 | 6259.9 | 6219.4 | 6201.5 | 6210.5 | 6309.3 | 6129.6 | 6062.3 |
| 45° | 6493.4 | 6488.9 | 6677.5 | 6744.8 | 6619.1 | 6610.1 | 6574.2 | 6682.0 | 6749.3 | 6646.1 | 6619.1 |
| 47.5° | 7126.5 | 7158.0 | 7265.7 | 7292.7 | 7369.0 | 7229.8 | 7229.8 | 7243.3 | 7481.3 | 7238.8 | 7113.1 |
| 50° | 7696.8 | 7737.3 | 7952.8 | 8163.9 | 8020.2 | 7872.0 | 7930.4 | 8002.2 | 8132.4 | 7903.4 | 7795.6 |
| 52.5° | 8388.4 | 8608.4 | 8752.1 | 8864.4 | 8967.7 | 8864.4 | 8729.7 | 8810.5 | 9066.5 | 8761.1 | 8626.4 |
| 55° | 9385.3 | 9560.4 | 9695.1 | 9901.7 | 9987.0 | 9847.8 | 9834.4 | 9825.4 | 9969.1 | 9645.8 | 9461.6 |
| 57.5° | 10499.0 | 10427.1 | 10642.7 | 10961.5 | 11271.3 | 11136.6 | 11096.2 | 11105.2 | 11141.1 | 10683.1 | 10543.9 |
| 60° | 11882.1 | 11962.9 | 12218.9 | 12497.3 | 12825.1 | 13013.7 | 12748.7 | 12596.1 | 12627.5 | 12003.3 | 11787.8 |
| 62.5° | 12672.4 | 12852.0 | 13431.3 | 14387.8 | 15047.9 | 15636.2 | 15676.6 | 14684.2 | 14019.6 | 12807.1 | 11891.0 |
| 65° | 12290.7 | 12263.8 | 13355.0 | 15124.3 | 17625.5 | 19336.4 | 19080.5 | 16673.5 | 14351.9 | 12425.4 | 11195.0 |
| 67.5° | 10454.1 | 10382.2 | 11702.4 | 14509.0 | 18640.4 | 22376.5 | 22084.6 | 17234.8 | 13229.2 | 10992.9 | 9600.8 |
| 70° | 6735.9 | 6717.9 | 8150.4 | 11060.3 | 16642.1 | 20544.4 | 20652.2 | 15654.1 | 10768.4 | 8051.6 | 6673.0 |
| 72.5° | 2447.4 | 2595.6 | 3426.3 | 5945.5 | 11302.8 | 15717.0 | 15784.4 | 11590.2 | 6192.5 | 3722.7 | 2743.7 |
| 75° | 902.6 | 929.5 | 1082.2 | 1930.9 | 5150.7 | 9650.2 | 9901.7 | 5622.2 | 2200.4 | 1212.5 | 987.9 |
| 77.5° | 520.9 | 525.4 | 579.3 | 718.5 | 1526.8 | 3767.6 | 3920.3 | 1706.4 | 853.2 | 646.6 | 597.2 |
| 80° | 354.8 | 350.3 | 408.6 | 467.0 | 610.7 | 1068.8 | 1136.1 | 714.0 | 538.9 | 449.1 | 377.2 |
| 82.5° | 206.6 | 220.0 | 300.9 | 332.3 | 372.7 | 471.5 | 480.5 | 444.6 | 404.2 | 332.3 | 247.0 |
| 85° | 125.7 | 103.3 | 166.2 | 184.1 | 215.5 | 211.1 | 211.1 | 242.5 | 260.5 | 233.5 | 139.2 |
| 87.5° | 31.4 | 31.4 | 40.4 | 44.9 | 58.4 | 44.9 | 49.4 | 94.3 | 125.7 | 116.8 | 71.8 |
| 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° | 4297.5 | 4297.5 | 4297.5 | 4297.5 | 4297.5 | 4297.5 | 4297.5 | 4297.5 | 4297.5 | 4297.5 | 4297.5 |
| 2.5° | 4306.5 | 4293.0 | 4302.0 | 4351.4 | 4319.9 | 4225.6 | 4248.1 | 4297.5 | 4257.1 | 4234.6 | 4230.1 |
| 5° | 4288.5 | 4315.4 | 4284.0 | 4293.0 | 4324.4 | 4248.1 | 4261.6 | 4324.4 | 4297.5 | 4306.5 | 4257.1 |
| 7.5° | 4293.0 | 4306.5 | 4279.5 | 4239.1 | 4239.1 | 4302.0 | 4266.0 | 4275.0 | 4234.6 | 4302.0 | 4212.2 |
| 10° | 4266.0 | 4230.1 | 4198.7 | 4221.1 | 4212.2 | 4194.2 | 4180.7 | 4207.7 | 4167.3 | 4225.6 | 4162.8 |
| 12.5° | 4185.2 | 4194.2 | 4185.2 | 4176.2 | 4194.2 | 4239.1 | 4167.3 | 4176.2 | 4113.4 | 4122.3 | 4153.8 |
| 15° | 4153.8 | 4180.7 | 4171.7 | 4221.1 | 4243.6 | 4176.2 | 4230.1 | 4176.2 | 4126.8 | 4099.9 | 4149.3 |
| 17.5° | 4167.3 | 4207.7 | 4194.2 | 4230.1 | 4189.7 | 4239.1 | 4248.1 | 4225.6 | 4167.3 | 4144.8 | 4167.3 |
| 20° | 4180.7 | 4167.3 | 4185.2 | 4248.1 | 4306.5 | 4257.1 | 4257.1 | 4243.6 | 4189.7 | 4158.3 | 4158.3 |
| 22.5° | 4212.2 | 4189.7 | 4216.6 | 4266.0 | 4284.0 | 4360.3 | 4293.0 | 4261.6 | 4171.7 | 4090.9 | 4167.3 |
| 25° | 4275.0 | 4288.5 | 4306.5 | 4288.5 | 4387.3 | 4378.3 | 4369.3 | 4346.9 | 4207.7 | 4212.2 | 4198.7 |
| 27.5° | 4396.3 | 4319.9 | 4342.4 | 4450.2 | 4463.6 | 4499.6 | 4454.6 | 4495.1 | 4346.9 | 4351.4 | 4261.6 |
| 30° | 4544.5 | 4463.6 | 4535.5 | 4629.8 | 4625.3 | 4692.7 | 4670.2 | 4679.2 | 4575.9 | 4517.5 | 4396.3 |
| 32.5° | 4706.1 | 4697.1 | 4742.0 | 4800.4 | 4822.9 | 4858.8 | 4854.3 | 4854.3 | 4791.4 | 4638.8 | 4661.2 |
| 35° | 4885.7 | 4948.6 | 5002.5 | 5065.4 | 5074.3 | 5119.3 | 5056.4 | 5065.4 | 5002.5 | 4890.2 | 4926.2 |
| 37.5° | 5240.5 | 5236.0 | 5294.4 | 5370.7 | 5379.7 | 5343.8 | 5393.2 | 5370.7 | 5285.4 | 5209.1 | 5150.7 |
| 40° | 5653.6 | 5563.8 | 5617.7 | 5797.3 | 5810.8 | 5747.9 | 5743.4 | 5739.0 | 5676.1 | 5509.9 | 5474.0 |
| 42.5° | 6012.9 | 6129.6 | 6120.7 | 6179.0 | 6138.6 | 6107.2 | 6219.4 | 6156.6 | 6107.2 | 5932.0 | 5900.6 |
| 45° | 6475.4 | 6511.3 | 6628.1 | 6816.7 | 6623.6 | 6623.6 | 6699.9 | 6650.5 | 6623.6 | 6493.4 | 6372.1 |
| 47.5° | 7050.2 | 7081.6 | 7315.1 | 7328.6 | 7202.9 | 7117.6 | 7355.6 | 7364.5 | 7252.3 | 7153.5 | 7005.3 |
| 50° | 7723.8 | 7737.3 | 7948.3 | 8163.9 | 8024.7 | 7863.0 | 8105.5 | 8199.8 | 7948.3 | 7813.6 | 7629.5 |
| 52.5° | 8464.7 | 8424.3 | 8599.4 | 9003.6 | 8868.9 | 8819.5 | 9079.9 | 9102.4 | 8761.1 | 8550.1 | 8599.4 |
| 55° | 9317.9 | 9264.1 | 9740.1 | 10014.0 | 9928.7 | 9838.8 | 9955.6 | 10009.5 | 9735.6 | 9389.8 | 9511.0 |
| 57.5° | 10422.6 | 10449.6 | 10687.6 | 10957.0 | 11096.2 | 11118.7 | 11172.5 | 11118.7 | 10840.2 | 10490.0 | 10377.7 |
| 60° | 11527.3 | 11608.1 | 12070.7 | 12578.1 | 12623.0 | 13018.2 | 12946.3 | 12676.9 | 12281.7 | 11783.3 | 11805.7 |
| 62.5° | 11935.9 | 11868.6 | 12614.0 | 13853.4 | 14908.7 | 15631.7 | 15312.9 | 14356.4 | 13440.3 | 12533.2 | 12600.6 |
| 65° | 11114.2 | 11280.3 | 12295.2 | 14235.1 | 16525.3 | 19385.8 | 17688.4 | 15043.4 | 13193.3 | 12021.3 | 11891.0 |
| 67.5° | 9578.4 | 9704.1 | 10992.9 | 13040.6 | 17104.6 | 21694.0 | 18586.5 | 14073.5 | 11635.1 | 10117.3 | 10198.1 |
| 70° | 6673.0 | 6735.9 | 7997.7 | 10683.1 | 15510.4 | 20472.5 | 16767.8 | 10808.8 | 8033.6 | 6403.6 | 6493.4 |
| 72.5° | 2685.4 | 2838.0 | 3668.8 | 6435.0 | 11451.0 | 15555.3 | 11289.3 | 5671.6 | 3332.0 | 2478.8 | 2249.8 |
| 75° | 992.4 | 996.9 | 1172.0 | 2213.9 | 5438.1 | 9776.0 | 5092.3 | 1823.2 | 1064.3 | 871.2 | 830.8 |
| 77.5° | 574.8 | 570.3 | 610.7 | 799.3 | 1576.2 | 3817.0 | 1446.0 | 714.0 | 579.3 | 520.9 | 498.5 |
| 80° | 359.2 | 354.8 | 417.6 | 529.9 | 691.5 | 1046.3 | 610.7 | 444.6 | 390.7 | 336.8 | 336.8 |
| 82.5° | 229.0 | 233.5 | 327.8 | 390.7 | 422.1 | 462.5 | 354.8 | 314.3 | 291.9 | 193.1 | 188.6 |
| 85° | 148.2 | 134.7 | 229.0 | 260.5 | 233.5 | 206.6 | 197.6 | 166.2 | 152.7 | 94.3 | 103.3 |
| 87.5° | 67.4 | 71.8 | 116.8 | 130.2 | 85.3 | 49.4 | 49.4 | 35.9 | 35.9 | 22.5 | 22.5 |
| 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)