

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: P636773

Luminaire Tested: **IFLD-S-SA3C-935-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636773
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-935-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10818.4 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

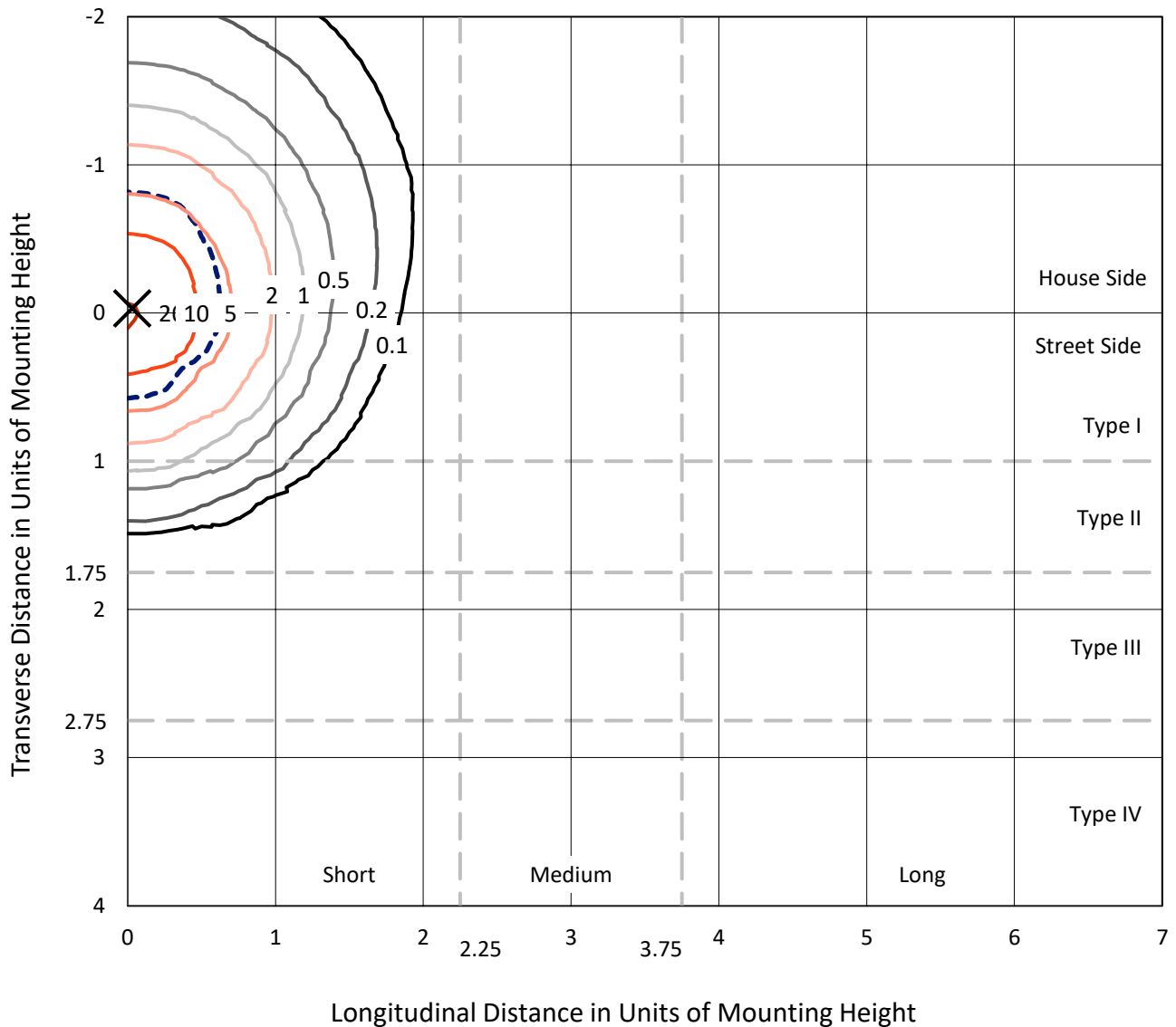
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

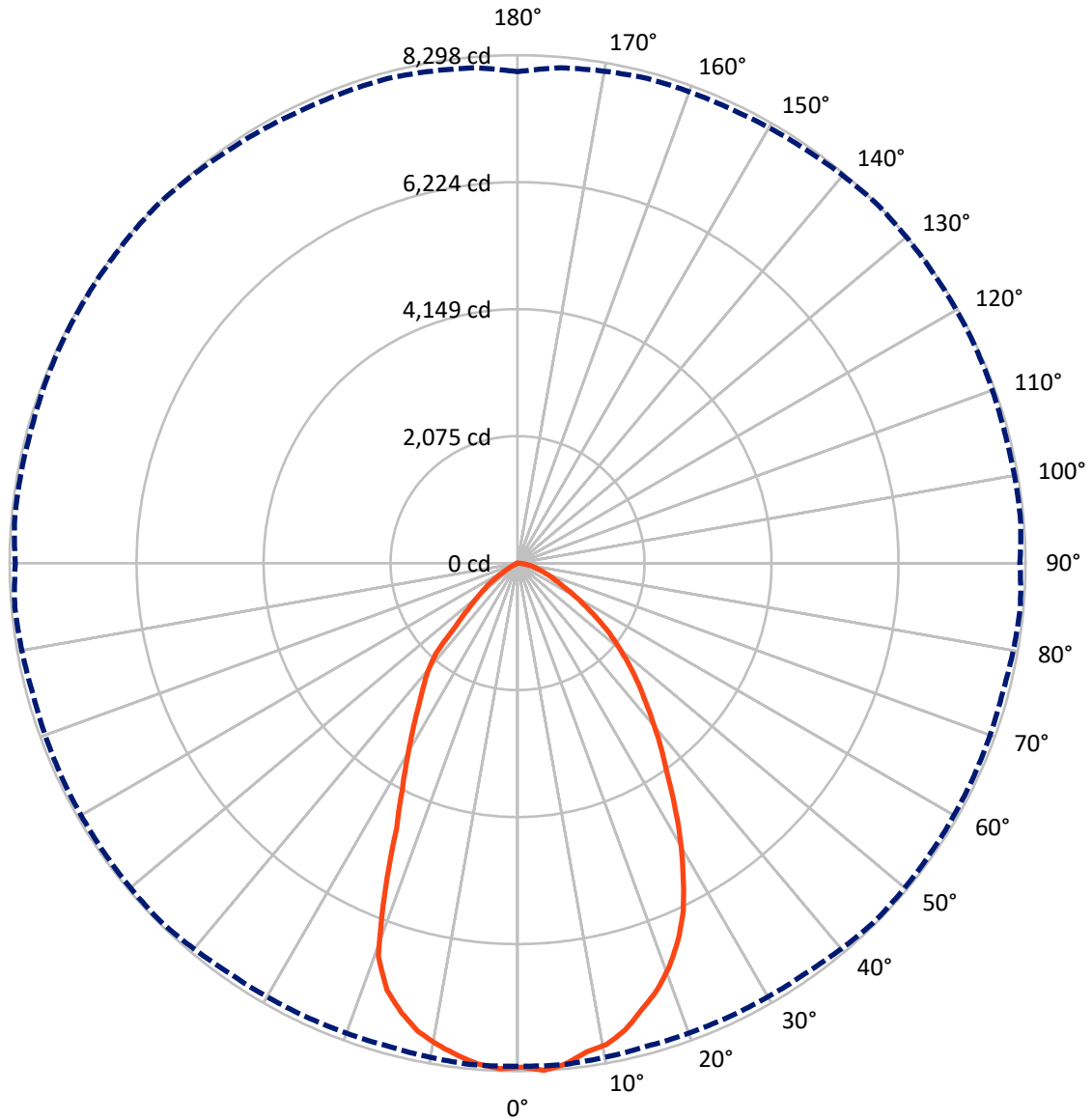
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 20.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6407.2 | 0.0 | 6407.2 |
| | % Fixture | 59.2 | 0.0 | 59.2 |
| Street Side | Lumens | 4411.2 | 0.0 | 4411.2 |
| | % Fixture | 40.8 | 0.0 | 40.8 |
| Total | Lumens | 10818.4 | 0.0 | 10818.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 772.1 | 7.1 |
| 10°-20° | 2070.5 | 19.1 |
| 20°-30° | 2525.0 | 23.3 |
| 30°-40° | 2305.3 | 21.3 |
| 40°-50° | 1666.0 | 15.4 |
| 50°-60° | 909.7 | 8.4 |
| 60°-70° | 376.1 | 3.5 |
| 70°-80° | 152.3 | 1.4 |
| 80°-90° | 41.4 | 0.4 |
| 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° | 10818.4 | 100.0 |
| 0°-180° | 10818.4 | 100.0 |



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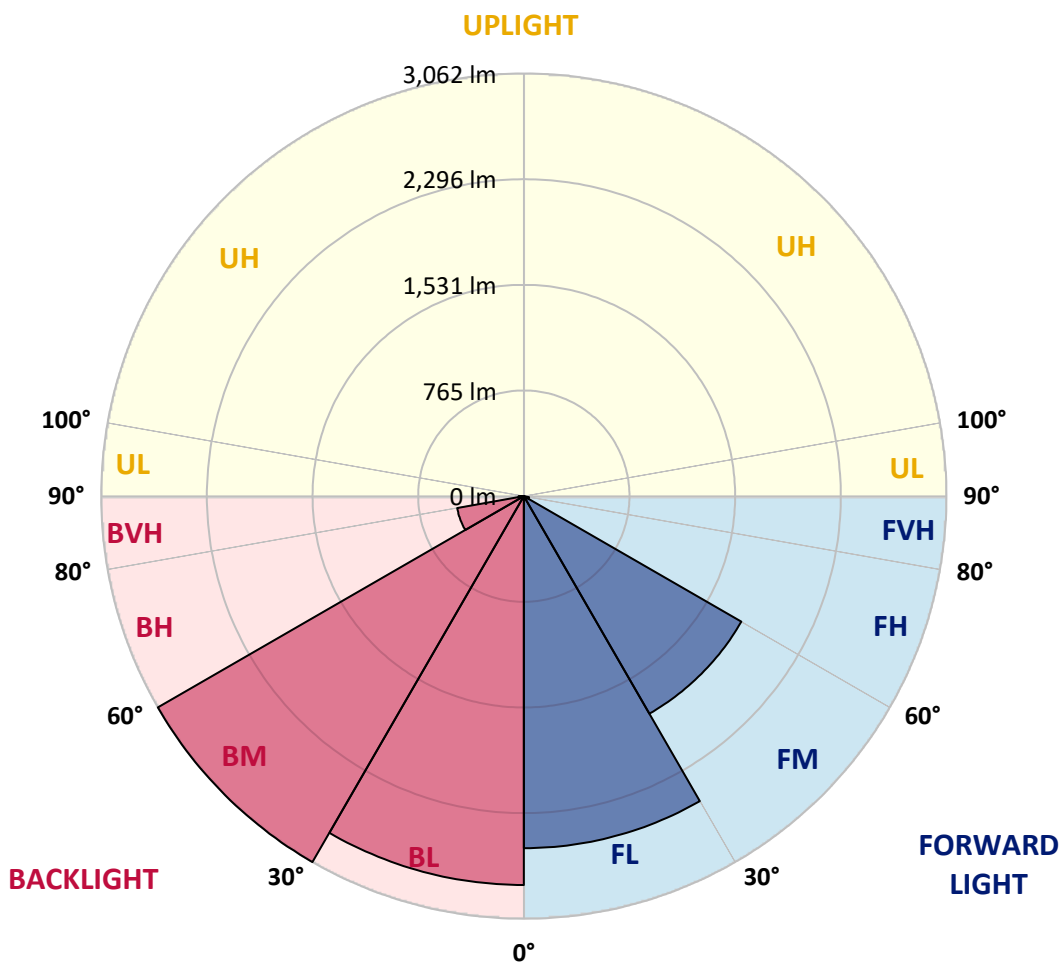
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2550.3 | 23.6 | | | |
| FM (30°-60°) | 1819.5 | 16.8 | | | |
| FH (60°-80°) | 38.1 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 3.3 | 0.0 | | | G0/10 |
| BL (0°-30°) | 2817.3 | 26.0 | B4/5000 | | |
| BM (30°-60°) | 3061.5 | 28.3 | B3/5000 | | |
| BH (60°-80°) | 490.3 | 4.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 38.1 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8232.8 | 8232.8 | 8232.8 | 8232.8 | 8232.8 | 8232.8 | 8232.8 | 8232.8 | 8232.8 | 8232.8 |
| 2.5° | 8217.6 | 8228.2 | 8170.3 | 8176.4 | 8187.1 | 8264.8 | 8245.0 | 8226.7 | 8200.8 | 8245.0 |
| 5° | 8206.9 | 8213.0 | 8152.1 | 8130.7 | 8139.9 | 8210.0 | 8146.0 | 8146.0 | 8139.9 | 8132.3 |
| 7.5° | 8124.6 | 8127.7 | 8080.5 | 8042.4 | 8066.7 | 8098.7 | 8051.5 | 8074.4 | 8040.8 | 8066.7 |
| 10° | 8001.2 | 7981.4 | 7925.1 | 7914.4 | 7941.8 | 7972.3 | 7940.3 | 7961.6 | 7931.2 | 7951.0 |
| 12.5° | 7819.9 | 7789.5 | 7743.8 | 7730.1 | 7777.3 | 7818.4 | 7792.5 | 7780.3 | 7740.7 | 7789.5 |
| 15° | 7120.7 | 7097.8 | 7201.4 | 7382.7 | 7545.7 | 7580.8 | 7553.3 | 7565.5 | 7483.3 | 7497.0 |
| 17.5° | 5860.8 | 5818.1 | 5929.3 | 6358.9 | 6971.4 | 7294.4 | 7270.0 | 7190.8 | 7068.9 | 7096.3 |
| 20° | 5326.0 | 5313.8 | 5301.7 | 5403.7 | 5831.8 | 6811.4 | 6844.9 | 6643.8 | 6470.2 | 6432.1 |
| 22.5° | 5024.4 | 5019.8 | 5007.6 | 5030.5 | 5143.2 | 5772.4 | 6156.3 | 5970.5 | 5854.7 | 5844.0 |
| 25° | 4748.6 | 4741.0 | 4704.5 | 4733.4 | 4733.4 | 4770.0 | 5262.0 | 5374.8 | 5272.7 | 5260.5 |
| 27.5° | 4468.3 | 4454.6 | 4448.5 | 4462.2 | 4392.2 | 4145.3 | 4270.3 | 4820.2 | 4766.9 | 4770.0 |
| 30° | 4165.2 | 4160.6 | 4143.8 | 4172.8 | 3956.4 | 3650.2 | 3571.0 | 4317.5 | 4328.2 | 4325.1 |
| 32.5° | 3714.2 | 3734.0 | 3810.2 | 3842.2 | 3485.7 | 3232.8 | 3100.3 | 3735.5 | 3953.4 | 3948.8 |
| 35° | 2698.1 | 2698.1 | 2946.4 | 3408.0 | 3054.5 | 2864.1 | 2792.5 | 3167.3 | 3583.2 | 3598.4 |
| 37.5° | 2218.2 | 2225.8 | 2274.5 | 2484.8 | 2635.6 | 2568.6 | 2547.2 | 2666.1 | 3107.9 | 3132.2 |
| 40° | 1995.7 | 1995.7 | 1995.7 | 1908.9 | 1904.3 | 2314.1 | 2302.0 | 2263.9 | 2684.3 | 2737.7 |
| 42.5° | 1793.1 | 1797.7 | 1800.7 | 1581.4 | 1459.5 | 2000.3 | 1972.9 | 1915.0 | 2305.0 | 2367.5 |
| 45° | 1584.4 | 1592.0 | 1601.2 | 1322.4 | 1269.0 | 1439.7 | 1669.7 | 1605.7 | 1930.2 | 2011.0 |
| 47.5° | 967.4 | 979.6 | 1186.8 | 1121.3 | 1127.4 | 1110.6 | 1362.0 | 1351.3 | 1582.9 | 1697.1 |
| 50° | 653.6 | 658.1 | 677.9 | 711.5 | 967.4 | 872.9 | 964.4 | 1118.2 | 1202.0 | 1375.7 |
| 52.5° | 548.4 | 556.1 | 507.3 | 461.6 | 635.3 | 682.5 | 673.4 | 830.3 | 863.8 | 1078.6 |
| 55° | 385.4 | 409.8 | 387.0 | 382.4 | 361.1 | 530.2 | 510.4 | 638.3 | 659.7 | 819.6 |
| 57.5° | 39.6 | 45.7 | 79.2 | 284.9 | 236.1 | 300.1 | 364.1 | 467.7 | 489.0 | 604.8 |
| 60° | 3.0 | 3.0 | 7.6 | 39.6 | 172.2 | 179.8 | 251.4 | 287.9 | 329.1 | 422.0 |
| 62.5° | 0.0 | 1.5 | 3.0 | 6.1 | 27.4 | 96.0 | 126.4 | 150.8 | 198.1 | 272.7 |
| 65° | 0.0 | 0.0 | 1.5 | 4.6 | 6.1 | 36.6 | 48.8 | 79.2 | 108.2 | 169.1 |
| 67.5° | 0.0 | 0.0 | 1.5 | 3.0 | 4.6 | 9.1 | 16.8 | 28.9 | 57.9 | 96.0 |
| 70° | 0.0 | 0.0 | 1.5 | 3.0 | 4.6 | 7.6 | 12.2 | 18.3 | 25.9 | 51.8 |
| 72.5° | 0.0 | 0.0 | 1.5 | 1.5 | 3.0 | 7.6 | 9.1 | 12.2 | 18.3 | 25.9 |
| 75° | 0.0 | 0.0 | 1.5 | 1.5 | 4.6 | 9.1 | 7.6 | 9.1 | 12.2 | 16.8 |
| 77.5° | 0.0 | 0.0 | 1.5 | 3.0 | 4.6 | 9.1 | 7.6 | 9.1 | 9.1 | 10.7 |
| 80° | 0.0 | 0.0 | 1.5 | 3.0 | 6.1 | 10.7 | 9.1 | 9.1 | 7.6 | 7.6 |
| 82.5° | 0.0 | 0.0 | 1.5 | 4.6 | 6.1 | 13.7 | 13.7 | 12.2 | 6.1 | 4.6 |
| 85° | 0.0 | 0.0 | 3.0 | 6.1 | 9.1 | 15.2 | 15.2 | 12.2 | 4.6 | 3.0 |
| 87.5° | 0.0 | 0.0 | 3.0 | 4.6 | 7.6 | 10.7 | 15.2 | 12.2 | 4.6 | 1.5 |
| 90° | 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 8232.8 | 0° | 8232.8 | 8232.8 | 8232.8 | 8232.8 | 8232.8 | 8232.8 | 8232.8 | 8232.8 | 8232.8 |
| 8206.9 | 2.5° | 8248.0 | 8238.9 | 8269.4 | 8281.6 | 8298.3 | 8234.3 | 8194.7 | 8196.2 | 8123.1 |
| 8114.0 | 5° | 8162.7 | 8164.3 | 8203.9 | 8200.8 | 8217.6 | 8182.5 | 8167.3 | 8141.4 | 8077.4 |
| 7996.7 | 7.5° | 8054.6 | 8040.8 | 8078.9 | 8107.9 | 8065.2 | 8089.6 | 8054.6 | 8066.7 | 8028.7 |
| 7893.1 | 10° | 7970.8 | 7938.8 | 7973.8 | 7993.6 | 7995.1 | 7970.8 | 7937.3 | 7905.3 | 7891.6 |
| 7731.6 | 12.5° | 7784.9 | 7743.8 | 7803.2 | 7830.6 | 7826.0 | 7778.8 | 7740.7 | 7748.3 | 7704.2 |
| 7448.2 | 15° | 7529.0 | 7530.5 | 7573.1 | 7599.0 | 7574.7 | 7564.0 | 7567.1 | 7548.8 | 7510.7 |
| 7056.7 | 17.5° | 7137.4 | 7160.3 | 7273.0 | 7335.5 | 7349.2 | 7327.9 | 7317.2 | 7295.9 | 7257.8 |
| 6432.1 | 20° | 6485.4 | 6622.5 | 6823.6 | 7017.1 | 7055.2 | 7049.1 | 7011.0 | 7001.8 | 6980.5 |
| 5813.5 | 22.5° | 5912.6 | 6014.6 | 6247.7 | 6549.4 | 6704.8 | 6720.0 | 6674.3 | 6660.6 | 6637.7 |
| 5260.5 | 25° | 5319.9 | 5429.6 | 5639.9 | 5967.4 | 6288.9 | 6354.4 | 6346.8 | 6305.6 | 6281.2 |
| 4770.0 | 27.5° | 4820.2 | 4929.9 | 5120.4 | 5415.9 | 5760.2 | 5970.5 | 5990.3 | 5924.8 | 5923.2 |
| 4332.7 | 30° | 4369.3 | 4520.1 | 4664.9 | 4905.6 | 5239.2 | 5554.6 | 5588.1 | 5542.4 | 5546.9 |
| 3932.1 | 32.5° | 4015.9 | 4140.8 | 4264.2 | 4425.7 | 4702.9 | 5070.1 | 5201.1 | 5158.5 | 5141.7 |
| 3598.4 | 35° | 3654.8 | 3740.1 | 3866.6 | 4014.3 | 4203.2 | 4567.3 | 4794.3 | 4762.4 | 4745.6 |
| 3147.5 | 37.5° | 3243.5 | 3389.7 | 3481.1 | 3647.2 | 3795.0 | 4084.4 | 4404.3 | 4399.8 | 4364.7 |
| 2763.6 | 40° | 2821.5 | 2975.3 | 3114.0 | 3281.5 | 3395.8 | 3625.8 | 3980.8 | 3979.3 | 3983.9 |
| 2365.9 | 42.5° | 2439.1 | 2580.8 | 2748.3 | 2931.1 | 3040.8 | 3208.4 | 3589.3 | 3610.6 | 3636.5 |
| 2038.4 | 45° | 2093.2 | 2221.2 | 2376.6 | 2599.0 | 2731.6 | 2827.6 | 3165.8 | 3263.3 | 3261.7 |
| 1745.9 | 47.5° | 1782.5 | 1902.8 | 2033.8 | 2250.2 | 2419.3 | 2506.1 | 2786.4 | 2925.1 | 2915.9 |
| 1432.1 | 50° | 1496.0 | 1602.7 | 1739.8 | 1896.7 | 2123.7 | 2199.9 | 2408.6 | 2591.4 | 2577.7 |
| 1141.1 | 52.5° | 1203.5 | 1351.3 | 1467.1 | 1610.3 | 1849.5 | 1924.1 | 2085.6 | 2263.9 | 2253.2 |
| 856.2 | 55° | 938.5 | 1081.7 | 1221.8 | 1345.2 | 1546.3 | 1657.5 | 1773.3 | 1956.1 | 1953.1 |
| 670.3 | 57.5° | 709.9 | 866.9 | 999.4 | 1116.7 | 1276.7 | 1413.8 | 1506.7 | 1672.8 | 1694.1 |
| 458.6 | 60° | 525.6 | 645.9 | 789.2 | 920.2 | 1046.6 | 1188.3 | 1250.8 | 1413.8 | 1422.9 |
| 313.8 | 62.5° | 358.0 | 490.6 | 630.7 | 749.5 | 844.0 | 990.3 | 1046.6 | 1180.7 | 1197.4 |
| 201.1 | 65° | 248.3 | 333.6 | 493.6 | 578.9 | 694.7 | 819.6 | 876.0 | 982.6 | 1016.2 |
| 115.8 | 67.5° | 164.5 | 237.7 | 385.4 | 463.1 | 577.4 | 662.7 | 734.3 | 821.1 | 857.7 |
| 73.1 | 70° | 89.9 | 175.2 | 275.7 | 365.6 | 464.7 | 546.9 | 617.0 | 687.1 | 719.1 |
| 33.5 | 72.5° | 60.9 | 117.3 | 192.0 | 289.5 | 374.8 | 455.5 | 518.0 | 569.8 | 571.3 |
| 19.8 | 75° | 30.5 | 79.2 | 146.3 | 223.9 | 292.5 | 371.7 | 428.1 | 458.6 | 422.0 |
| 12.2 | 77.5° | 18.3 | 57.9 | 118.8 | 179.8 | 237.7 | 300.1 | 332.1 | 348.9 | 289.5 |
| 9.1 | 80° | 10.7 | 41.1 | 92.9 | 143.2 | 164.5 | 220.9 | 251.4 | 255.9 | 193.5 |
| 6.1 | 82.5° | 7.6 | 30.5 | 73.1 | 105.1 | 100.5 | 155.4 | 188.9 | 182.8 | 123.4 |
| 4.6 | 85° | 4.6 | 21.3 | 45.7 | 65.5 | 60.9 | 102.1 | 109.7 | 112.7 | 71.6 |
| 3.0 | 87.5° | 3.0 | 12.2 | 24.4 | 35.0 | 28.9 | 44.2 | 44.2 | 53.3 | 35.0 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



| 180° |
|--------|
| 8232.8 |
| 8028.7 |
| 8062.2 |
| 7964.7 |
| 7830.6 |
| 7666.1 |
| 7472.6 |
| 7241.0 |
| 6931.8 |
| 6631.6 |
| 6255.3 |
| 5920.2 |
| 5524.1 |
| 5143.2 |
| 4722.7 |
| 4393.7 |
| 3983.9 |
| 3622.8 |
| 3264.8 |
| 2919.0 |
| 2589.9 |
| 2276.1 |
| 1960.7 |
| 1685.0 |
| 1436.6 |
| 1200.5 |
| 1008.5 |
| 853.1 |
| 706.9 |
| 557.6 |
| 394.6 |
| 278.8 |
| 181.3 |
| 114.3 |
| 65.5 |
| 30.5 |
| 0.0 |

(END OF REPORT)