

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: P482474

Luminaire Tested: **IFLD-L-SA7D-740-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482474
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-740-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

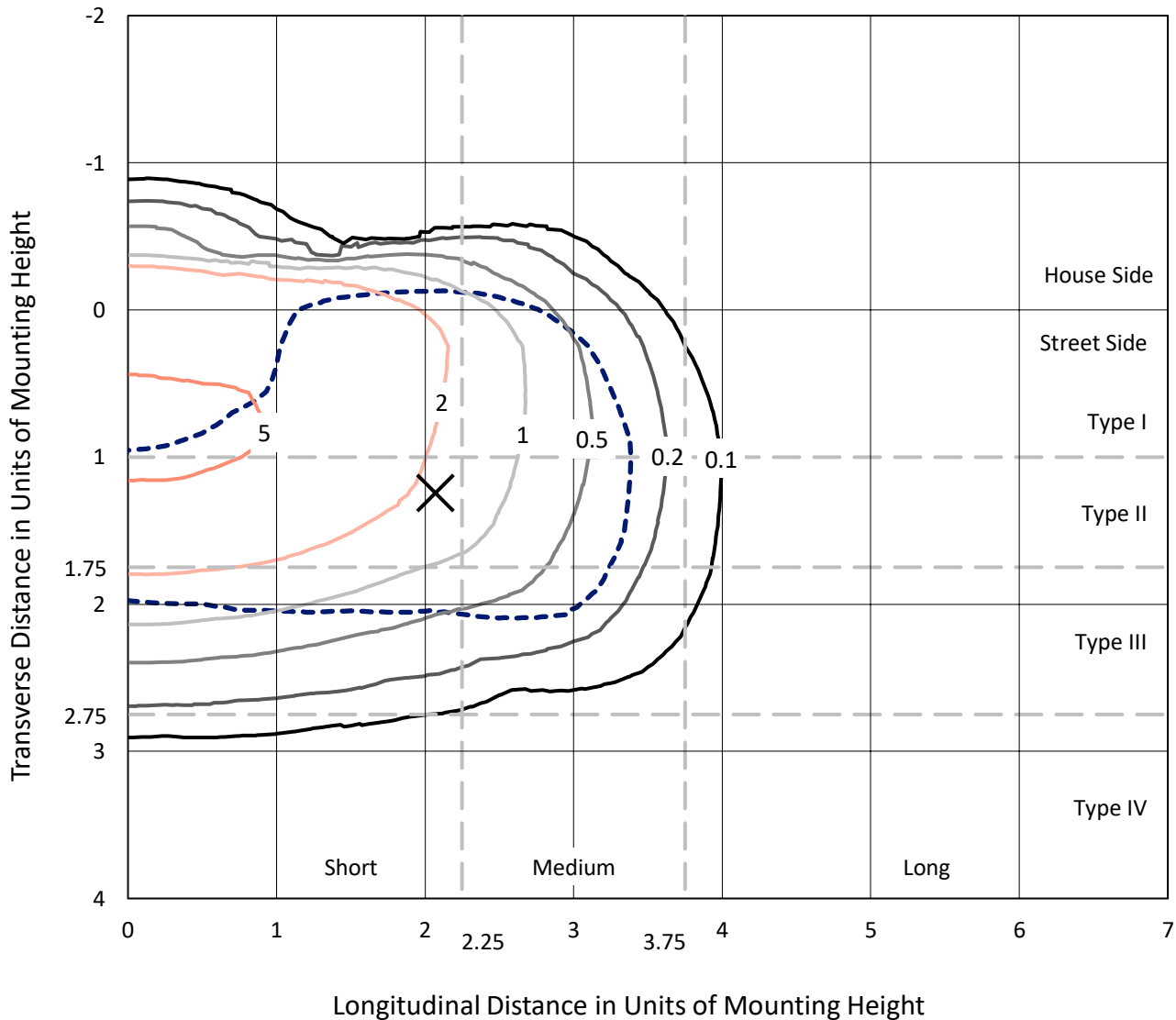
Lumens per Lamp: N/A
Luminaire Lumens: 36195.3 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6
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

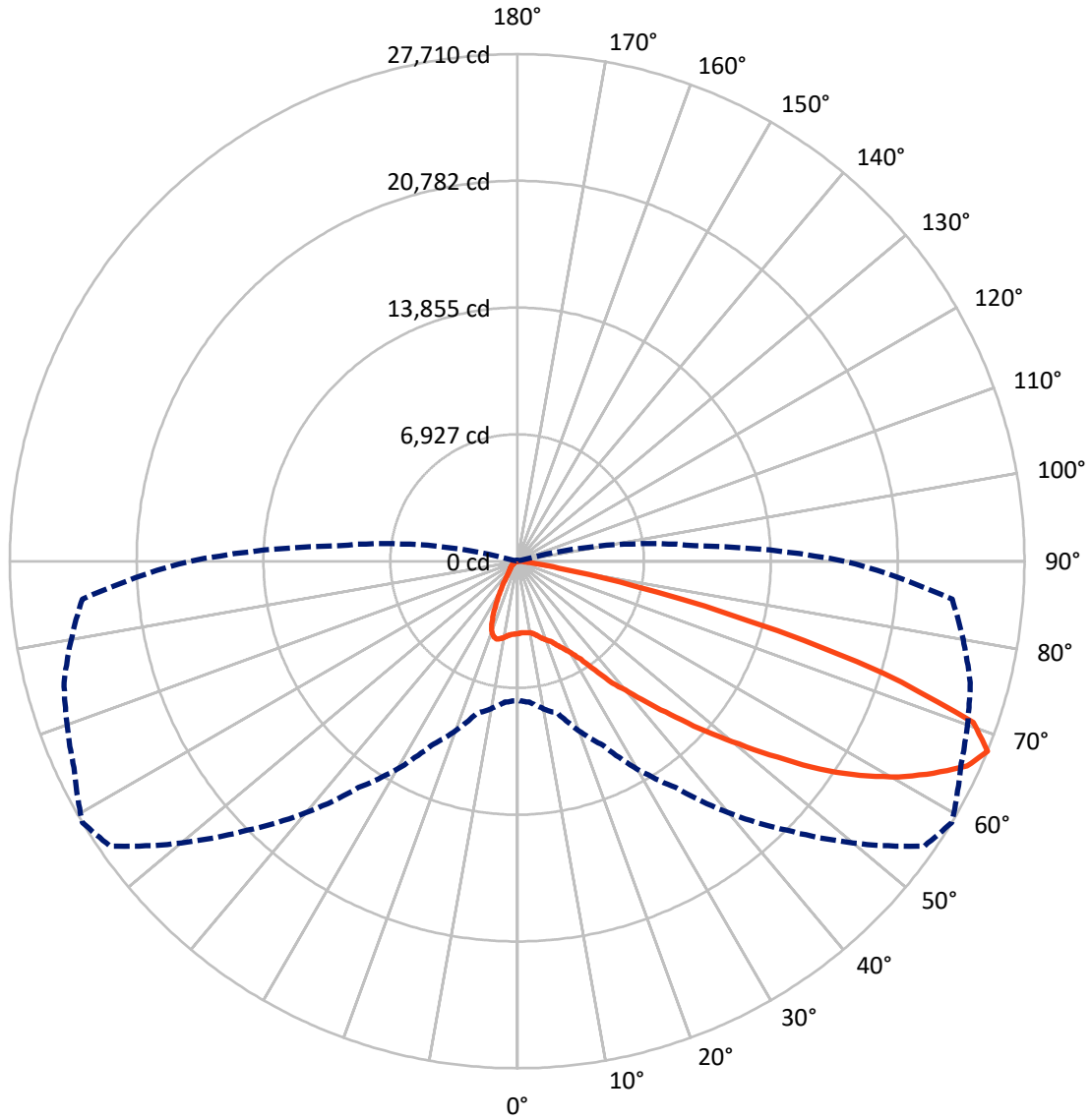
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4251.8 | 0.0 | 4251.8 |
| | % Fixture | 11.7 | 0.0 | 11.7 |
| Street Side | Lumens | 31943.5 | 0.0 | 31943.5 |
| | % Fixture | 88.3 | 0.0 | 88.3 |
| Total | Lumens | 36195.3 | 0.0 | 36195.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 377.1 | 1.0 |
| 10°-20° | 1089.3 | 3.0 |
| 20°-30° | 1903.8 | 5.3 |
| 30°-40° | 3351.9 | 9.3 |
| 40°-50° | 5925.1 | 16.4 |
| 50°-60° | 9381.6 | 25.9 |
| 60°-70° | 10406.8 | 28.8 |
| 70°-80° | 3610.9 | 10.0 |
| 80°-90° | 148.7 | 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° | 36195.3 | 100.0 |
| 0°-180° | 36195.3 | 100.0 |

Coefficient of Utilization

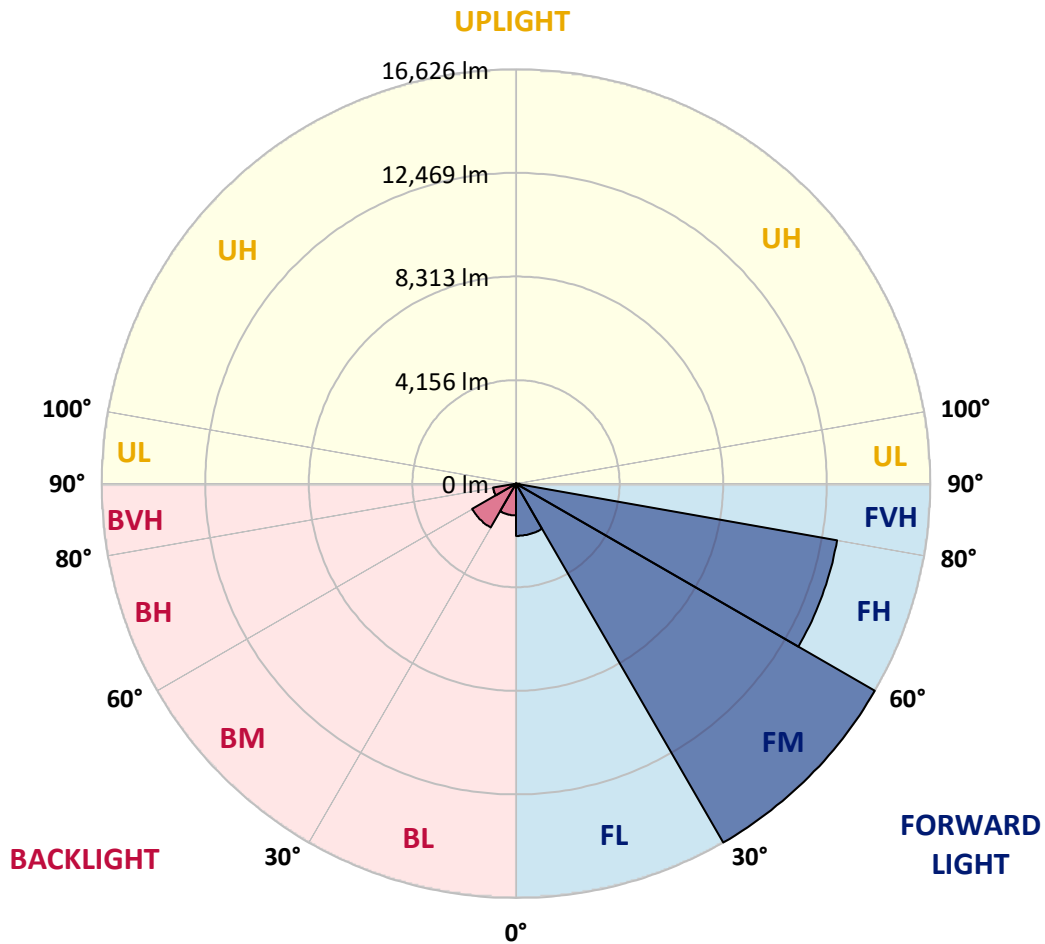


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2096.0 | 5.8 | | | |
| FM (30°-60°) | 16625.8 | 45.9 | | | |
| FH (60°-80°) | 13082.6 | 36.1 | | | G5 |
| FVH (80°-90°) | 139.1 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1274.3 | 3.5 | B3/2500 | | |
| BM (30°-60°) | 2032.8 | 5.6 | B2/2500 | | |
| BH (60°-80°) | 935.0 | 2.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 9.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3970.0 | 3970.0 | 3970.0 | 3970.0 | 3970.0 | 3970.0 | 3970.0 | 3970.0 | 3970.0 | 3970.0 | 3970.0 |
| 2.5° | 3855.0 | 3800.0 | 3850.0 | 3855.0 | 3860.0 | 3905.0 | 3955.0 | 3920.0 | 3915.0 | 3955.0 | 3990.0 |
| 5° | 3700.0 | 3675.0 | 3735.0 | 3765.0 | 3815.0 | 3855.0 | 3935.0 | 3940.0 | 3945.0 | 3990.0 | 4050.0 |
| 7.5° | 3635.0 | 3575.0 | 3645.0 | 3680.0 | 3715.0 | 3810.0 | 3905.0 | 3955.0 | 4025.0 | 4080.0 | 4140.0 |
| 10° | 3505.0 | 3550.0 | 3570.0 | 3630.0 | 3730.0 | 3840.0 | 3955.0 | 3980.0 | 4135.0 | 4180.0 | 4325.0 |
| 12.5° | 3550.0 | 3580.0 | 3620.0 | 3635.0 | 3745.0 | 3910.0 | 4065.0 | 4075.0 | 4235.0 | 4430.0 | 4505.0 |
| 15° | 3665.0 | 3645.0 | 3660.0 | 3680.0 | 3810.0 | 3945.0 | 4195.0 | 4240.0 | 4390.0 | 4610.0 | 4795.0 |
| 17.5° | 3910.0 | 3875.0 | 3850.0 | 3845.0 | 3875.0 | 4000.0 | 4295.0 | 4430.0 | 4570.0 | 4870.0 | 4965.0 |
| 20° | 4525.0 | 4495.0 | 4395.0 | 4135.0 | 4045.0 | 4095.0 | 4415.0 | 4605.0 | 4800.0 | 5135.0 | 5290.0 |
| 22.5° | 5460.0 | 5490.0 | 5255.0 | 4890.0 | 4515.0 | 4320.0 | 4605.0 | 4770.0 | 5080.0 | 5505.0 | 5645.0 |
| 25° | 6564.9 | 6504.9 | 6220.0 | 5795.0 | 5205.0 | 4745.0 | 4910.0 | 5095.0 | 5475.0 | 5825.0 | 5880.0 |
| 27.5° | 7429.9 | 7359.9 | 7139.9 | 6624.9 | 6115.0 | 5370.0 | 5310.0 | 5425.0 | 5875.0 | 6190.0 | 6130.0 |
| 30° | 8284.9 | 8309.9 | 8159.9 | 7549.9 | 6919.9 | 6135.0 | 5755.0 | 5805.0 | 6150.0 | 6554.9 | 6420.0 |
| 32.5° | 9374.9 | 9314.9 | 9229.9 | 8694.9 | 7949.9 | 7109.9 | 6459.9 | 6380.0 | 6529.9 | 7064.9 | 6904.9 |
| 35° | 10389.9 | 10354.9 | 10239.9 | 9699.9 | 9049.9 | 8134.9 | 7499.9 | 7319.9 | 7284.9 | 7879.9 | 7599.9 |
| 37.5° | 11274.9 | 11214.9 | 11039.9 | 10694.9 | 10064.9 | 9294.9 | 8599.9 | 8439.9 | 8434.9 | 8844.9 | 8304.9 |
| 40° | 12019.9 | 12064.9 | 12044.9 | 11664.9 | 11319.9 | 10704.9 | 9639.9 | 9384.9 | 9364.9 | 9584.9 | 9269.9 |
| 42.5° | 12984.9 | 13089.9 | 13034.9 | 12959.9 | 12544.9 | 12304.9 | 11099.9 | 10709.9 | 10534.9 | 10984.9 | 10699.9 |
| 45° | 14444.9 | 14484.9 | 14519.9 | 14334.9 | 13919.9 | 13969.9 | 12609.9 | 12144.9 | 12099.9 | 12769.9 | 12129.9 |
| 47.5° | 15809.9 | 15704.9 | 15949.9 | 15959.9 | 15939.9 | 15709.9 | 14239.9 | 13894.9 | 13954.9 | 14464.9 | 13804.9 |
| 50° | 16149.9 | 16419.9 | 17094.9 | 17219.9 | 17544.9 | 17754.9 | 16049.9 | 15704.9 | 15804.9 | 16384.9 | 15629.9 |
| 52.5° | 16414.9 | 16824.9 | 17499.9 | 18414.9 | 19289.9 | 19789.8 | 18074.9 | 17794.9 | 17789.9 | 18144.9 | 17104.9 |
| 55° | 16879.9 | 17129.9 | 17714.9 | 18974.9 | 20639.8 | 21459.8 | 20514.8 | 20064.8 | 19659.8 | 19909.8 | 18634.9 |
| 57.5° | 16834.9 | 16929.9 | 17839.9 | 19394.8 | 21709.8 | 23199.8 | 22519.8 | 22089.8 | 21569.8 | 21424.8 | 20394.8 |
| 60° | 16044.9 | 16269.9 | 17289.9 | 19109.9 | 22369.8 | 24554.8 | 24389.8 | 23949.8 | 23054.8 | 22714.8 | 21744.8 |
| 62.5° | 14479.9 | 14779.9 | 15579.9 | 18109.9 | 21409.8 | 24624.8 | 25679.8 | 25514.8 | 24514.8 | 23904.8 | 23504.8 |
| 65° | 11734.9 | 11874.9 | 12794.9 | 15569.9 | 19239.9 | 23549.8 | 27204.8 | 26999.8 | 26079.8 | 25169.8 | 24409.8 |
| 67.5° | 7599.9 | 7734.9 | 8619.9 | 11114.9 | 15109.9 | 20774.8 | 27144.8 | 27709.8 | 26714.8 | 25619.8 | 23844.8 |
| 70° | 3590.0 | 3555.0 | 4380.0 | 6175.0 | 9679.9 | 15864.9 | 25309.8 | 26424.8 | 25579.8 | 23224.8 | 19804.8 |
| 72.5° | 1095.0 | 1190.0 | 1820.0 | 2735.0 | 4970.0 | 9894.9 | 19839.8 | 20884.8 | 20619.8 | 18554.9 | 13219.9 |
| 75° | 485.0 | 525.0 | 715.0 | 1120.0 | 2015.0 | 4060.0 | 12254.9 | 13184.9 | 13069.9 | 10944.9 | 6035.0 |
| 77.5° | 310.0 | 340.0 | 450.0 | 640.0 | 915.0 | 1290.0 | 5645.0 | 6549.9 | 6350.0 | 3845.0 | 1580.0 |
| 80° | 220.0 | 235.0 | 320.0 | 440.0 | 575.0 | 530.0 | 1945.0 | 2310.0 | 2215.0 | 1045.0 | 425.0 |
| 82.5° | 120.0 | 130.0 | 235.0 | 325.0 | 385.0 | 270.0 | 545.0 | 680.0 | 710.0 | 465.0 | 205.0 |
| 85° | 45.0 | 55.0 | 145.0 | 230.0 | 200.0 | 125.0 | 160.0 | 195.0 | 255.0 | 255.0 | 95.0 |
| 87.5° | 0.0 | 5.0 | 60.0 | 100.0 | 50.0 | 35.0 | 45.0 | 55.0 | 70.0 | 120.0 | 35.0 |
| 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° | 3970.0 | 3970.0 | 3970.0 | 3970.0 | 3970.0 | 3970.0 | 3970.0 | 3970.0 | 3970.0 | 3970.0 | 3970.0 |
| 2.5° | 4015.0 | 3980.0 | 3995.0 | 4020.0 | 3965.0 | 3995.0 | 3935.0 | 3980.0 | 3995.0 | 3935.0 | 3965.0 |
| 5° | 4065.0 | 4100.0 | 4080.0 | 4040.0 | 4005.0 | 4015.0 | 4000.0 | 3965.0 | 3995.0 | 4005.0 | 3985.0 |
| 7.5° | 4210.0 | 4170.0 | 4180.0 | 4135.0 | 4065.0 | 4060.0 | 3965.0 | 3940.0 | 3950.0 | 3960.0 | 3925.0 |
| 10° | 4345.0 | 4370.0 | 4320.0 | 4285.0 | 4170.0 | 4095.0 | 3965.0 | 3825.0 | 3810.0 | 3750.0 | 3800.0 |
| 12.5° | 4585.0 | 4525.0 | 4505.0 | 4390.0 | 4275.0 | 4025.0 | 3745.0 | 3530.0 | 3350.0 | 3285.0 | 3220.0 |
| 15° | 4785.0 | 4775.0 | 4740.0 | 4565.0 | 4300.0 | 3845.0 | 3315.0 | 2815.0 | 2470.0 | 2255.0 | 2225.0 |
| 17.5° | 5060.0 | 5015.0 | 4950.0 | 4675.0 | 4115.0 | 3375.0 | 2470.0 | 1840.0 | 1495.0 | 1360.0 | 1310.0 |
| 20° | 5270.0 | 5235.0 | 5145.0 | 4650.0 | 3780.0 | 2515.0 | 1530.0 | 1170.0 | 1085.0 | 1060.0 | 1065.0 |
| 22.5° | 5575.0 | 5465.0 | 5295.0 | 4525.0 | 3170.0 | 1675.0 | 1100.0 | 1045.0 | 1030.0 | 1010.0 | 1015.0 |
| 25° | 5840.0 | 5740.0 | 5385.0 | 4310.0 | 2260.0 | 1110.0 | 1020.0 | 990.0 | 965.0 | 940.0 | 935.0 |
| 27.5° | 6075.0 | 5950.0 | 5480.0 | 3870.0 | 1415.0 | 955.0 | 945.0 | 910.0 | 860.0 | 820.0 | 805.0 |
| 30° | 6305.0 | 6160.0 | 5505.0 | 3045.0 | 955.0 | 865.0 | 840.0 | 785.0 | 720.0 | 665.0 | 655.0 |
| 32.5° | 6689.9 | 6514.9 | 5470.0 | 2175.0 | 825.0 | 770.0 | 715.0 | 650.0 | 555.0 | 510.0 | 500.0 |
| 35° | 7289.9 | 7024.9 | 5425.0 | 1280.0 | 740.0 | 680.0 | 595.0 | 510.0 | 440.0 | 395.0 | 385.0 |
| 37.5° | 7979.9 | 7519.9 | 5295.0 | 855.0 | 680.0 | 600.0 | 490.0 | 405.0 | 345.0 | 310.0 | 300.0 |
| 40° | 9004.9 | 8244.9 | 4795.0 | 700.0 | 605.0 | 510.0 | 395.0 | 320.0 | 275.0 | 250.0 | 240.0 |
| 42.5° | 10134.9 | 9074.9 | 4025.0 | 630.0 | 535.0 | 435.0 | 315.0 | 260.0 | 225.0 | 200.0 | 200.0 |
| 45° | 11489.9 | 9939.9 | 3105.0 | 575.0 | 475.0 | 360.0 | 260.0 | 210.0 | 180.0 | 160.0 | 150.0 |
| 47.5° | 12999.9 | 10724.9 | 2095.0 | 520.0 | 400.0 | 295.0 | 215.0 | 160.0 | 130.0 | 115.0 | 115.0 |
| 50° | 14349.9 | 11419.9 | 1335.0 | 455.0 | 350.0 | 245.0 | 175.0 | 130.0 | 105.0 | 85.0 | 80.0 |
| 52.5° | 15574.9 | 11949.9 | 920.0 | 400.0 | 300.0 | 200.0 | 145.0 | 105.0 | 80.0 | 65.0 | 65.0 |
| 55° | 16829.9 | 12219.9 | 680.0 | 345.0 | 260.0 | 170.0 | 120.0 | 95.0 | 70.0 | 55.0 | 50.0 |
| 57.5° | 17859.9 | 12334.9 | 520.0 | 300.0 | 220.0 | 135.0 | 105.0 | 80.0 | 60.0 | 45.0 | 40.0 |
| 60° | 18739.9 | 12279.9 | 405.0 | 250.0 | 175.0 | 115.0 | 90.0 | 65.0 | 50.0 | 35.0 | 30.0 |
| 62.5° | 19254.9 | 11949.9 | 320.0 | 215.0 | 140.0 | 100.0 | 75.0 | 55.0 | 35.0 | 25.0 | 20.0 |
| 65° | 19264.9 | 11249.9 | 250.0 | 160.0 | 105.0 | 85.0 | 65.0 | 45.0 | 25.0 | 10.0 | 5.0 |
| 67.5° | 17884.9 | 9734.9 | 200.0 | 125.0 | 85.0 | 65.0 | 50.0 | 35.0 | 10.0 | 0.0 | 0.0 |
| 70° | 13989.9 | 7364.9 | 165.0 | 100.0 | 70.0 | 55.0 | 35.0 | 20.0 | 5.0 | 0.0 | 0.0 |
| 72.5° | 8914.9 | 4410.0 | 135.0 | 80.0 | 60.0 | 40.0 | 25.0 | 15.0 | 0.0 | 0.0 | 0.0 |
| 75° | 3730.0 | 1360.0 | 105.0 | 70.0 | 45.0 | 30.0 | 20.0 | 5.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 960.0 | 430.0 | 85.0 | 60.0 | 45.0 | 25.0 | 15.0 | 5.0 | 0.0 | 0.0 | 0.0 |
| 80° | 285.0 | 160.0 | 70.0 | 50.0 | 35.0 | 20.0 | 10.0 | 5.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 130.0 | 95.0 | 60.0 | 45.0 | 30.0 | 20.0 | 10.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 50.0 | 30.0 | 30.0 | 25.0 | 25.0 | 15.0 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 20.0 | 10.0 | 10.0 | 10.0 | 5.0 | 5.0 | 0.0 | 0.0 | 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)