

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: P524162

Luminaire Tested: **IFLD-S-SA6D-935-U-66**

Issue Date: 05/27/2021



Test Information

Test Method: LM-79-08
Report Number: P524162
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-935-U-66
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 66 distribution lens
Light Source: (96) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

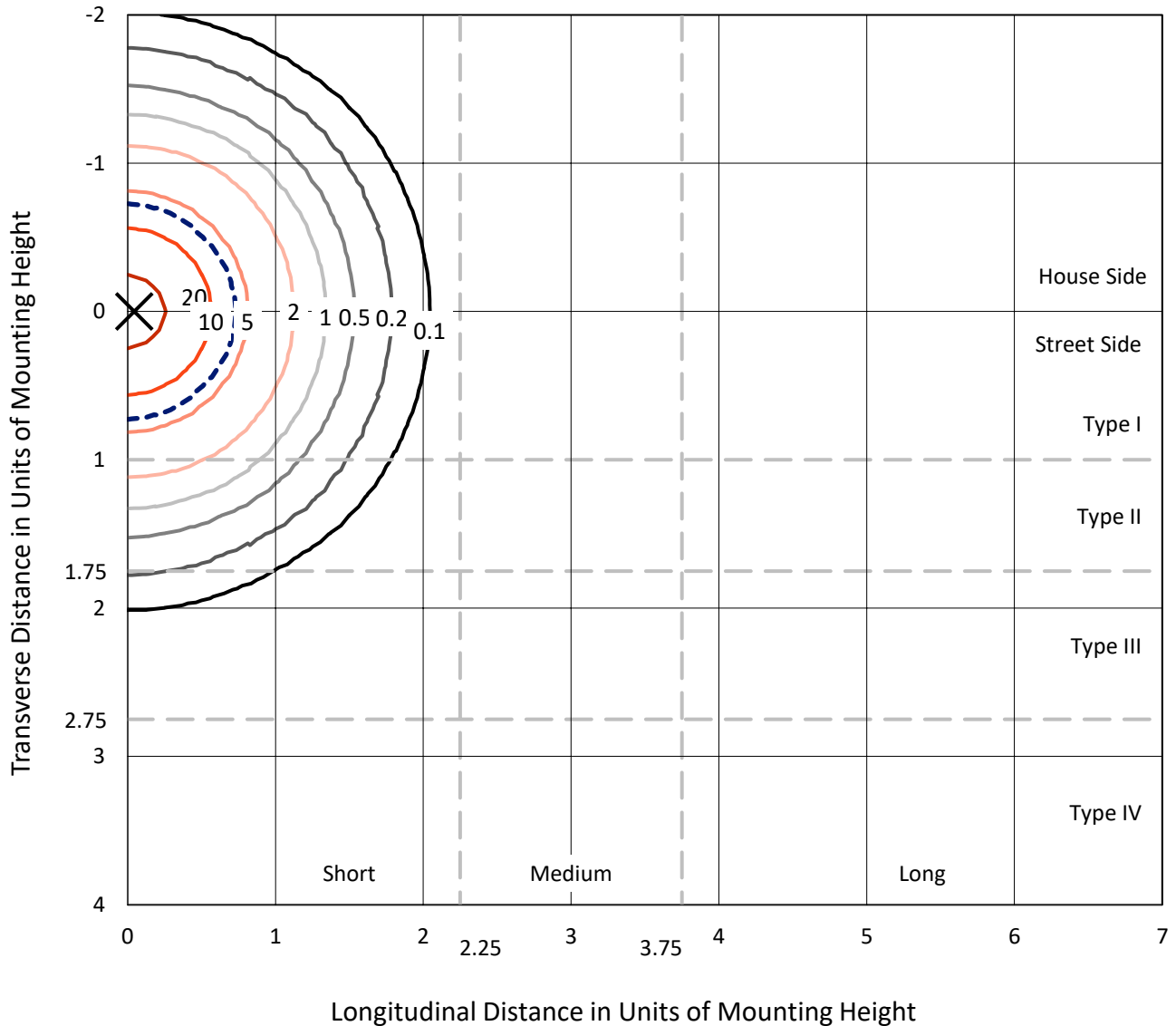
Lumens per Lamp: N/A
Luminaire Lumens: 31499.7 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 368.2
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

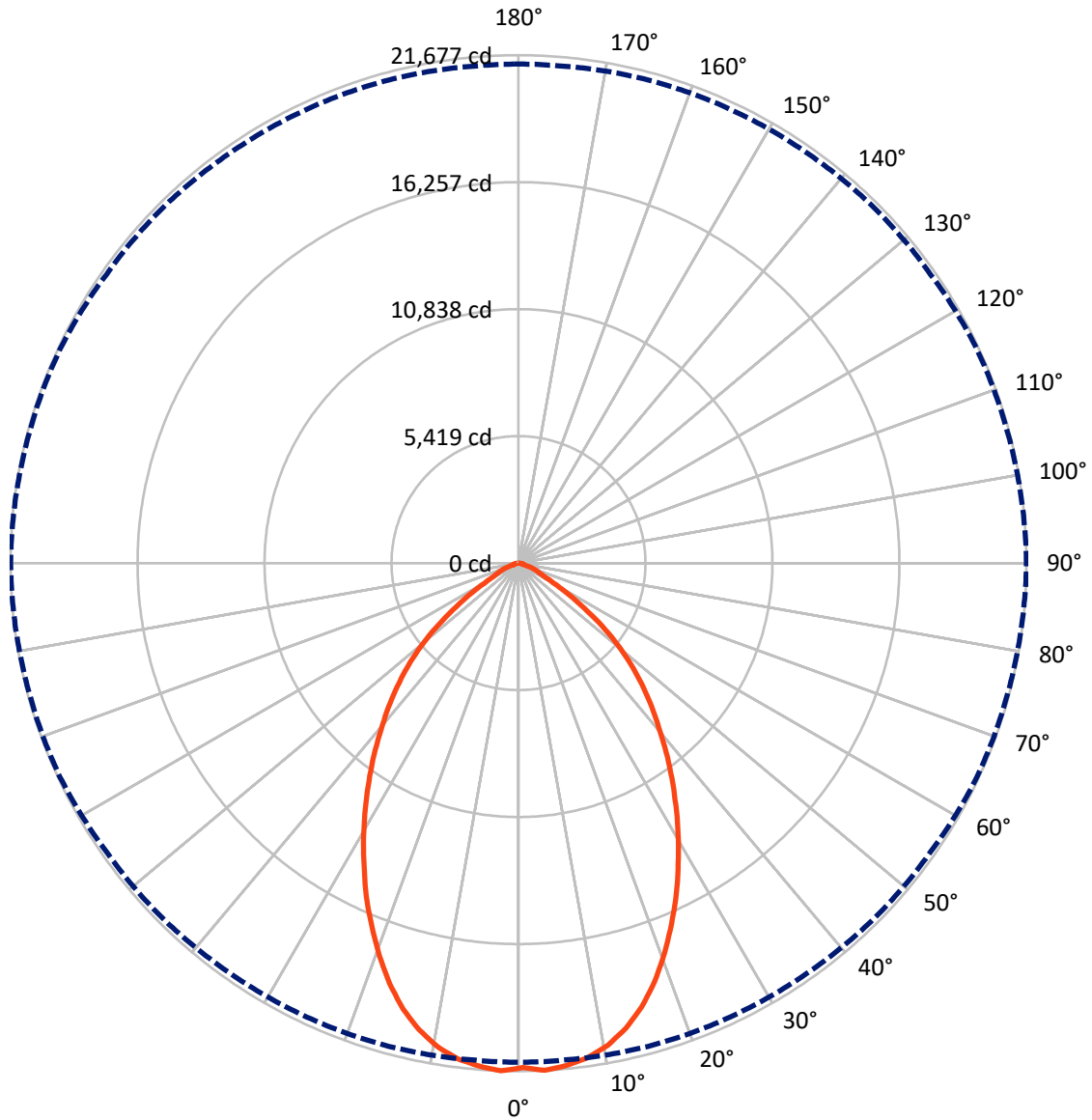
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 23.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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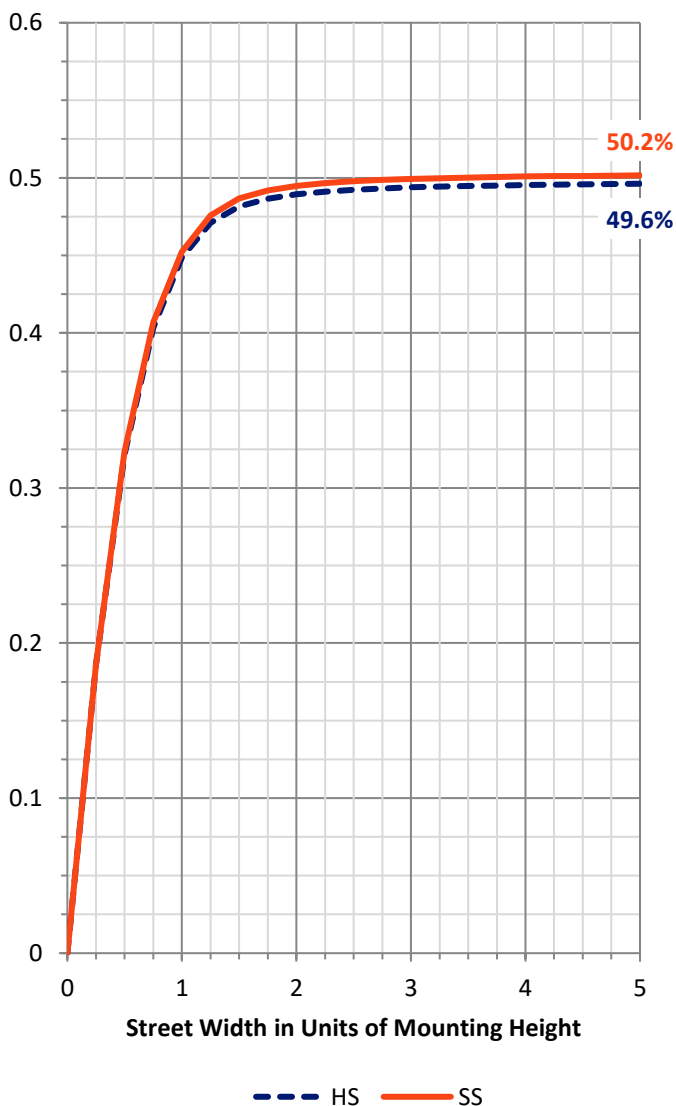
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 15749.8 | 0.0 | 15749.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 15749.8 | 0.0 | 15749.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 31499.7 | 0.0 | 31499.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 2021.2 | 6.4 |
| 10°-20° | 5431.1 | 17.2 |
| 20°-30° | 7026.8 | 22.3 |
| 30°-40° | 6930.1 | 22.0 |
| 40°-50° | 5606.8 | 17.8 |
| 50°-60° | 3052.7 | 9.7 |
| 60°-70° | 967.2 | 3.1 |
| 70°-80° | 374.2 | 1.2 |
| 80°-90° | 89.5 | 0.3 |
| 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° | 31499.7 | 100.0 |
| 0°-180° | 31499.7 | 100.0 |

Coefficient of Utilization



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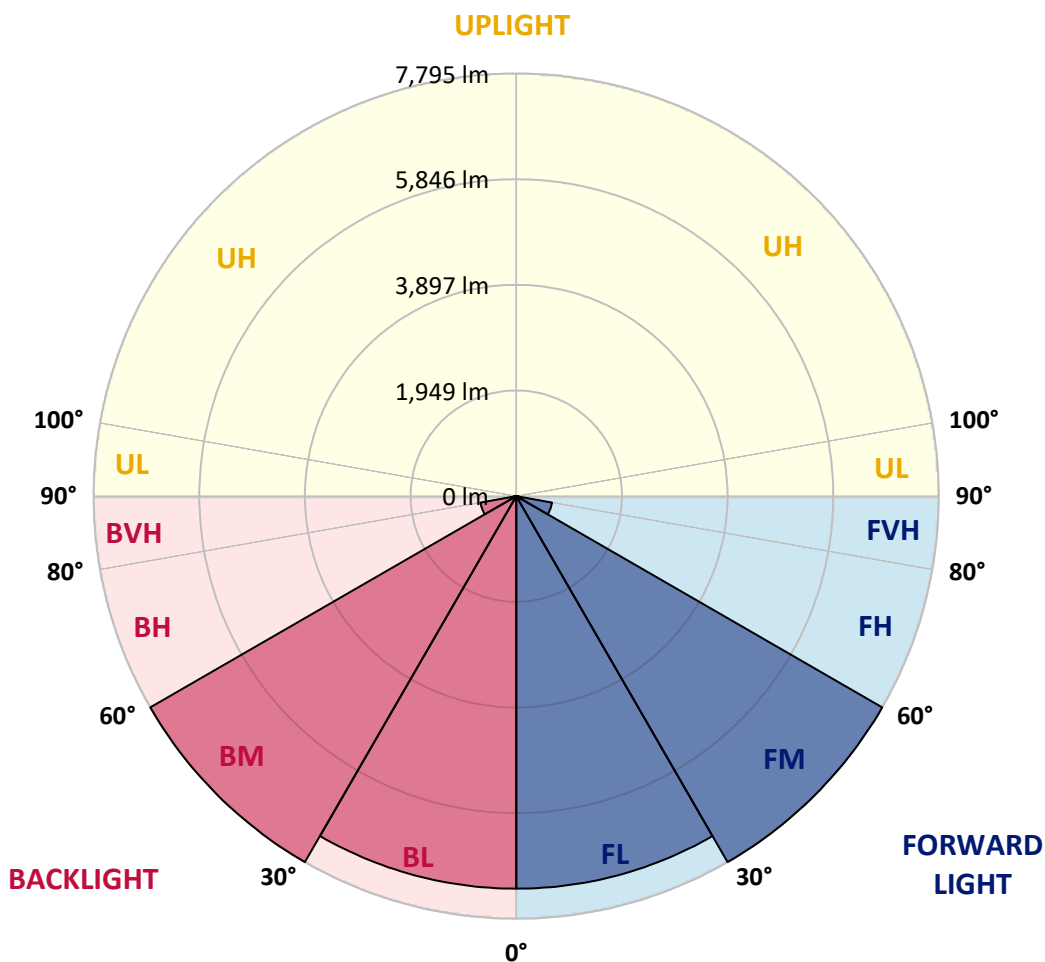
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 7239.6 | 23.0 | | | |
| FM (30°-60°) | 7794.8 | 24.7 | | | |
| FH (60°-80°) | 670.7 | 2.1 | | | G1/1800 |
| FVH (80°-90°) | 44.7 | 0.1 | | | G1/100 |
| BL (0°-30°) | 7239.6 | 23.0 | B5 | | |
| BM (30°-60°) | 7794.8 | 24.7 | B4/8500 | | |
| BH (60°-80°) | 670.7 | 2.1 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 44.7 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 21530.9 | 21530.9 | 21530.9 | 21530.9 | 21530.9 | 21530.9 | 21530.9 | 21530.9 | 21530.9 | 21530.9 | 21530.9 |
| 2.5° | 21298.8 | 21294.2 | 21348.8 | 21371.6 | 21398.9 | 21453.5 | 21471.7 | 21590.0 | 21603.7 | 21649.2 | 21676.5 |
| 5° | 21262.4 | 21244.2 | 21298.8 | 21307.9 | 21339.7 | 21348.8 | 21376.1 | 21458.1 | 21449.0 | 21517.2 | 21530.9 |
| 7.5° | 21066.7 | 21043.9 | 21089.4 | 21098.5 | 21144.0 | 21130.4 | 21175.9 | 21235.1 | 21235.1 | 21285.1 | 21307.9 |
| 10° | 20629.8 | 20625.2 | 20670.7 | 20675.3 | 20739.0 | 20725.3 | 20798.2 | 20811.8 | 20848.2 | 20884.6 | 20925.6 |
| 12.5° | 20106.4 | 20047.2 | 20106.4 | 20083.6 | 20170.1 | 20120.1 | 20220.2 | 20252.0 | 20270.2 | 20334.0 | 20365.8 |
| 15° | 19432.9 | 19360.0 | 19401.0 | 19378.2 | 19432.9 | 19369.1 | 19473.8 | 19537.5 | 19560.3 | 19624.0 | 19655.9 |
| 17.5° | 18531.8 | 18472.6 | 18481.7 | 18449.8 | 18486.2 | 18436.2 | 18536.3 | 18636.4 | 18668.3 | 18736.5 | 18782.1 |
| 20° | 17398.5 | 17398.5 | 17403.1 | 17375.8 | 17407.6 | 17357.6 | 17421.3 | 17576.0 | 17607.9 | 17698.9 | 17776.3 |
| 22.5° | 16292.6 | 16292.6 | 16306.3 | 16269.9 | 16279.0 | 16256.2 | 16324.5 | 16474.7 | 16524.8 | 16620.3 | 16715.9 |
| 25° | 15232.3 | 15214.1 | 15223.2 | 15191.3 | 15154.9 | 15164.0 | 15245.9 | 15341.5 | 15450.7 | 15573.6 | 15646.4 |
| 27.5° | 14221.9 | 14244.7 | 14190.1 | 14167.3 | 14140.0 | 14090.0 | 14185.5 | 14303.9 | 14381.2 | 14481.3 | 14517.8 |
| 30° | 13143.3 | 13188.9 | 13147.9 | 13129.7 | 13061.4 | 12997.7 | 13097.8 | 13216.2 | 13293.5 | 13389.1 | 13430.1 |
| 32.5° | 12183.1 | 12169.4 | 12133.0 | 12092.1 | 12023.8 | 11973.7 | 12014.7 | 12151.2 | 12210.4 | 12310.5 | 12324.2 |
| 35° | 11154.5 | 11145.4 | 11122.7 | 11040.8 | 11018.0 | 10958.9 | 10995.3 | 11113.6 | 11159.1 | 11218.3 | 11263.8 |
| 37.5° | 10148.8 | 10116.9 | 10107.8 | 10076.0 | 10035.0 | 10021.3 | 10021.3 | 10085.1 | 10130.6 | 10189.7 | 10235.2 |
| 40° | 9152.1 | 9161.2 | 9133.9 | 9106.6 | 9092.9 | 9074.7 | 9079.3 | 9115.7 | 9152.1 | 9179.4 | 9206.7 |
| 42.5° | 8251.0 | 8200.9 | 8182.7 | 8155.4 | 8169.1 | 8191.8 | 8141.8 | 8196.4 | 8241.9 | 8241.9 | 8301.1 |
| 45° | 7217.9 | 7240.7 | 7249.8 | 7295.3 | 7295.3 | 7272.5 | 7254.3 | 7281.6 | 7327.1 | 7322.6 | 7381.8 |
| 47.5° | 6316.8 | 6289.5 | 6312.3 | 6380.5 | 6439.7 | 6448.8 | 6394.2 | 6407.8 | 6421.5 | 6398.7 | 6453.3 |
| 50° | 5329.2 | 5338.3 | 5333.8 | 5438.5 | 5556.8 | 5515.8 | 5474.9 | 5488.5 | 5484.0 | 5484.0 | 5493.1 |
| 52.5° | 4255.2 | 4278.0 | 4250.7 | 4400.8 | 4528.3 | 4496.4 | 4469.1 | 4469.1 | 4491.9 | 4487.3 | 4482.8 |
| 55° | 3276.7 | 3267.6 | 3208.5 | 3281.3 | 3395.1 | 3399.6 | 3358.7 | 3376.9 | 3399.6 | 3422.4 | 3417.8 |
| 57.5° | 2439.3 | 2412.0 | 2330.1 | 2334.7 | 2462.1 | 2494.0 | 2457.6 | 2453.0 | 2480.3 | 2489.4 | 2539.5 |
| 60° | 1642.9 | 1638.4 | 1565.6 | 1561.0 | 1611.1 | 1697.5 | 1656.6 | 1656.6 | 1665.7 | 1679.3 | 1693.0 |
| 62.5° | 1124.1 | 1133.2 | 1105.9 | 1101.3 | 1110.4 | 1183.3 | 1178.7 | 1174.2 | 1169.6 | 1187.8 | 1183.3 |
| 65° | 882.9 | 887.4 | 878.3 | 878.3 | 882.9 | 914.8 | 946.6 | 951.2 | 955.7 | 960.3 | 955.7 |
| 67.5° | 710.0 | 714.5 | 705.4 | 714.5 | 714.5 | 719.1 | 764.6 | 782.8 | 787.3 | 787.3 | 782.8 |
| 70° | 546.1 | 564.3 | 573.4 | 573.4 | 573.4 | 573.4 | 605.3 | 628.0 | 623.5 | 596.2 | 568.9 |
| 72.5° | 273.1 | 332.2 | 459.7 | 464.2 | 459.7 | 455.1 | 473.3 | 496.1 | 491.5 | 345.9 | 259.4 |
| 75° | 182.0 | 195.7 | 359.5 | 377.7 | 373.2 | 355.0 | 373.2 | 400.5 | 391.4 | 223.0 | 213.9 |
| 77.5° | 104.7 | 113.8 | 241.2 | 277.6 | 300.4 | 259.4 | 295.8 | 323.1 | 309.5 | 182.0 | 177.5 |
| 80° | 81.9 | 77.4 | 172.9 | 213.9 | 204.8 | 163.8 | 241.2 | 259.4 | 236.7 | 136.5 | 122.9 |
| 82.5° | 50.1 | 50.1 | 113.8 | 163.8 | 150.2 | 95.6 | 168.4 | 200.2 | 177.5 | 100.1 | 91.0 |
| 85° | 27.3 | 31.9 | 54.6 | 81.9 | 86.5 | 63.7 | 91.0 | 109.2 | 109.2 | 63.7 | 63.7 |
| 87.5° | 13.7 | 13.7 | 18.2 | 18.2 | 22.8 | 27.3 | 27.3 | 31.9 | 22.8 | 18.2 | 18.2 |
| 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)