

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: McGRAW-EDISON

Report Number: P157455

Luminaire Tested: **VTS-F04-LED-E1-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157455
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33709)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-F04-LED-E1-5WQ
Description: VENTUS LED SITE LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (28) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10426.3 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

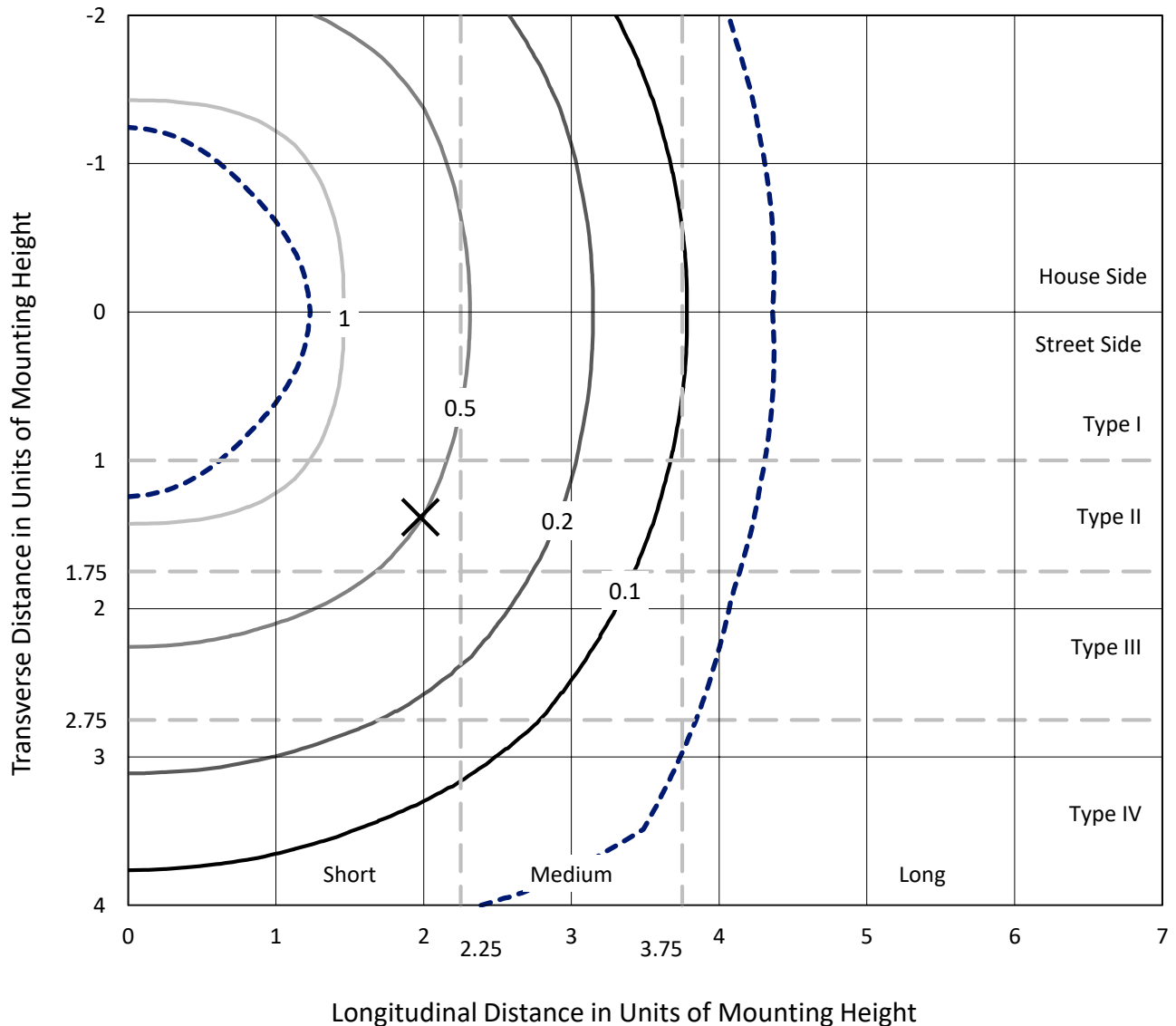
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

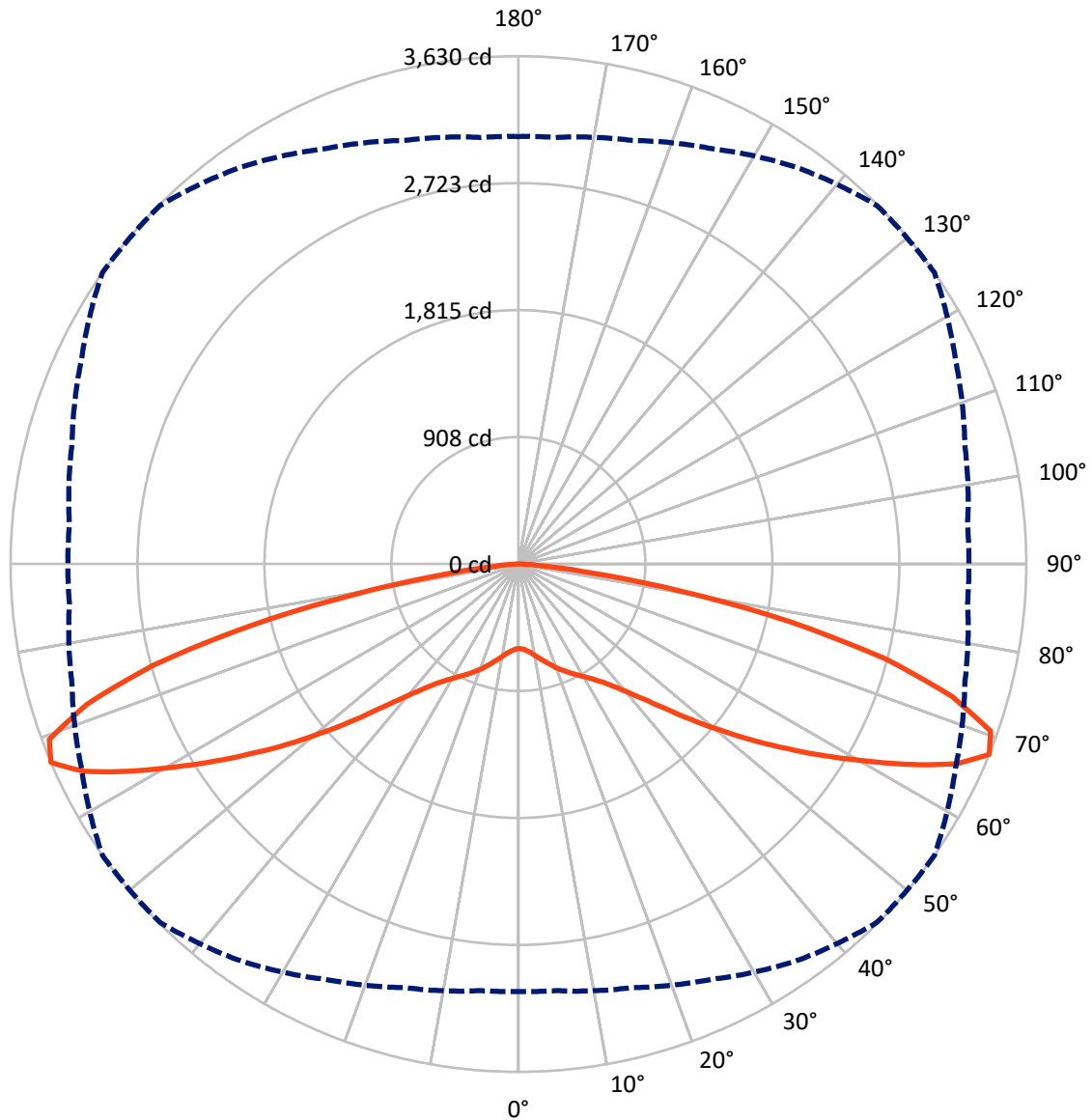
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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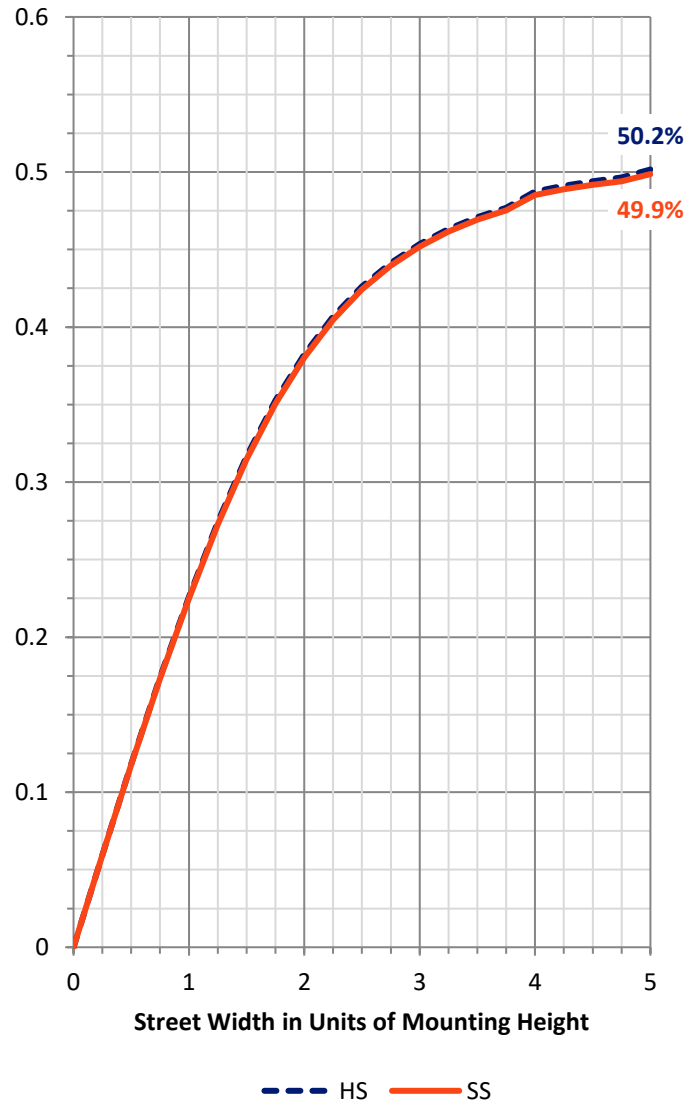
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5213.2 | 0.0 | 5213.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5213.2 | 0.0 | 5213.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 10426.3 | 0.0 | 10426.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 60.7 | 0.6 |
| 10°-20° | 207.4 | 2.0 |
| 20°-30° | 398.9 | 3.8 |
| 30°-40° | 653.4 | 6.3 |
| 40°-50° | 1136.0 | 10.9 |
| 50°-60° | 2027.6 | 19.4 |
| 60°-70° | 3130.5 | 30.0 |
| 70°-80° | 2534.2 | 24.3 |
| 80°-90° | 277.6 | 2.7 |
| 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° | 10426.3 | 100.0 |
| 0°-180° | 10426.3 | 100.0 |



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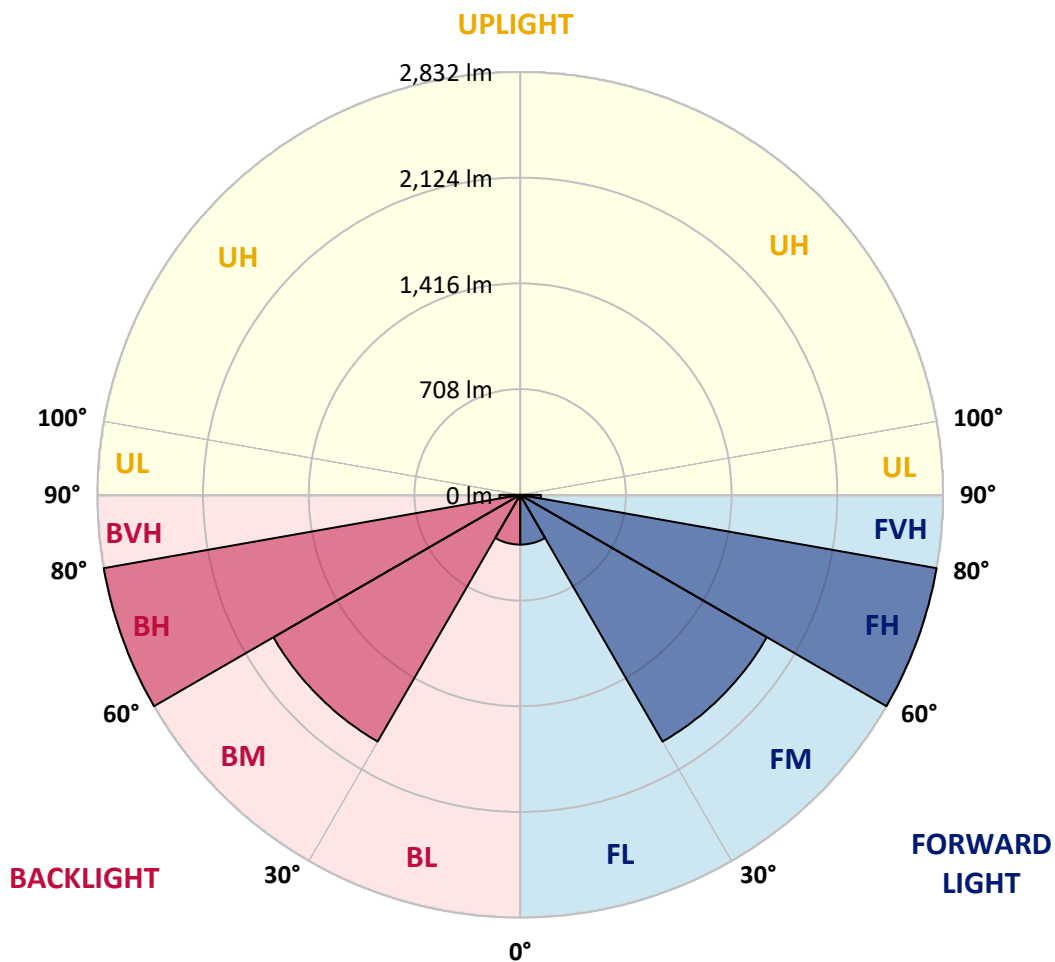
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 333.5 | 3.2 | | | |
| FM (30°-60°) | 1908.5 | 18.3 | | | |
| FH (60°-80°) | 2832.3 | 27.2 | | | G2/5000 |
| FVH (80°-90°) | 138.8 | 1.3 | | | G2/225 |
| BL (0°-30°) | 333.5 | 3.2 | B1/500 | | |
| BM (30°-60°) | 1908.5 | 18.3 | B2/2500 | | |
| BH (60°-80°) | 2832.3 | 27.2 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 138.8 | 1.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 604.9 | 604.9 | 604.9 | 604.9 | 604.9 | 604.9 | 604.9 | 604.9 | 604.9 | 604.9 | 604.9 |
| 2.5° | 608.9 | 609.6 | 608.9 | 608.9 | 608.2 | 608.2 | 608.2 | 608.9 | 608.9 | 610.2 | 609.6 |
| 5° | 621.5 | 622.1 | 620.8 | 622.1 | 622.1 | 622.8 | 622.1 | 621.5 | 622.1 | 622.8 | 620.8 |
| 7.5° | 639.3 | 640.6 | 639.9 | 640.6 | 641.3 | 640.6 | 640.6 | 639.9 | 641.3 | 640.6 | 639.3 |
| 10° | 662.4 | 663.7 | 663.1 | 664.4 | 665.0 | 665.7 | 665.7 | 664.4 | 663.7 | 663.7 | 663.1 |
| 12.5° | 690.1 | 690.1 | 690.1 | 692.1 | 693.4 | 694.8 | 694.1 | 692.8 | 690.8 | 691.5 | 688.8 |
| 15° | 720.5 | 721.8 | 721.8 | 722.5 | 725.8 | 726.5 | 725.8 | 723.8 | 723.2 | 721.8 | 720.5 |
| 17.5° | 754.2 | 754.9 | 755.5 | 756.2 | 760.1 | 762.1 | 759.5 | 756.2 | 756.2 | 755.5 | 755.5 |
| 20° | 789.2 | 788.5 | 789.9 | 791.2 | 793.8 | 795.8 | 795.1 | 791.8 | 789.2 | 791.2 | 790.5 |
| 22.5° | 821.6 | 822.2 | 822.9 | 824.9 | 829.5 | 830.1 | 828.2 | 825.5 | 822.2 | 822.9 | 822.9 |
| 25° | 851.9 | 852.6 | 853.9 | 856.6 | 861.8 | 865.2 | 862.5 | 858.5 | 853.9 | 853.9 | 854.6 |
| 27.5° | 883.0 | 883.6 | 884.3 | 888.9 | 895.5 | 899.5 | 897.5 | 890.9 | 885.6 | 884.3 | 882.3 |
| 30° | 917.3 | 917.3 | 918.6 | 924.6 | 933.2 | 937.8 | 935.2 | 927.2 | 919.3 | 918.0 | 918.0 |
| 32.5° | 960.9 | 958.3 | 960.3 | 968.2 | 977.4 | 982.7 | 980.7 | 971.5 | 961.6 | 959.6 | 959.6 |
| 35° | 1013.1 | 1011.8 | 1013.1 | 1022.3 | 1033.6 | 1041.5 | 1036.9 | 1028.3 | 1017.7 | 1015.7 | 1014.4 |
| 37.5° | 1075.2 | 1075.8 | 1079.8 | 1090.4 | 1105.5 | 1115.4 | 1110.8 | 1097.0 | 1084.4 | 1084.4 | 1084.4 |
| 40° | 1153.8 | 1155.1 | 1163.0 | 1178.8 | 1200.6 | 1209.2 | 1203.9 | 1186.8 | 1172.2 | 1167.0 | 1168.3 |
| 42.5° | 1260.7 | 1260.1 | 1272.6 | 1292.4 | 1318.2 | 1330.7 | 1322.2 | 1303.7 | 1282.5 | 1274.0 | 1274.6 |
| 45° | 1386.9 | 1396.1 | 1409.3 | 1434.4 | 1466.8 | 1488.6 | 1473.4 | 1452.9 | 1421.2 | 1408.7 | 1408.0 |
| 47.5° | 1539.4 | 1549.3 | 1565.9 | 1607.5 | 1646.4 | 1672.8 | 1661.0 | 1627.3 | 1581.7 | 1563.9 | 1557.3 |
| 50° | 1713.1 | 1725.7 | 1746.8 | 1800.3 | 1855.8 | 1885.5 | 1864.4 | 1820.1 | 1771.2 | 1744.2 | 1737.6 |
| 52.5° | 1908.6 | 1912.6 | 1944.3 | 2009.0 | 2077.7 | 2114.0 | 2090.2 | 2037.4 | 1974.7 | 1949.6 | 1931.1 |
| 55° | 2125.2 | 2128.5 | 2164.9 | 2238.2 | 2316.1 | 2359.0 | 2328.6 | 2261.9 | 2203.8 | 2160.2 | 2164.2 |
| 57.5° | 2326.0 | 2335.9 | 2389.4 | 2475.3 | 2567.1 | 2619.2 | 2586.2 | 2515.5 | 2454.8 | 2405.2 | 2411.2 |
| 60° | 2540.6 | 2551.2 | 2607.3 | 2709.7 | 2833.9 | 2903.2 | 2860.3 | 2784.3 | 2721.6 | 2674.7 | 2668.8 |
| 62.5° | 2768.5 | 2774.4 | 2835.8 | 2927.6 | 3086.1 | 3197.8 | 3156.8 | 3072.9 | 2999.6 | 2953.4 | 2948.8 |
| 65° | 2979.2 | 2987.1 | 3039.3 | 3139.6 | 3302.8 | 3465.9 | 3442.8 | 3326.5 | 3227.5 | 3160.8 | 3151.5 |
| 67.5° | 3055.8 | 3061.0 | 3134.4 | 3275.0 | 3462.6 | 3623.7 | 3630.3 | 3447.4 | 3303.4 | 3222.2 | 3220.2 |
| 70° | 2965.9 | 2969.9 | 3063.7 | 3230.8 | 3469.8 | 3603.9 | 3580.1 | 3396.5 | 3219.5 | 3119.8 | 3109.9 |
| 72.5° | 2764.5 | 2765.2 | 2851.0 | 2993.0 | 3232.8 | 3342.4 | 3241.3 | 3140.3 | 2957.4 | 2882.7 | 2862.9 |
| 75° | 2398.0 | 2398.6 | 2458.1 | 2552.5 | 2723.6 | 2824.6 | 2709.7 | 2617.2 | 2509.6 | 2465.3 | 2442.2 |
| 77.5° | 1649.1 | 1659.0 | 1720.4 | 1829.4 | 2016.9 | 2128.5 | 1978.0 | 1810.2 | 1744.8 | 1707.2 | 1684.7 |
| 80° | 793.8 | 809.0 | 879.7 | 987.3 | 1183.5 | 1361.8 | 1176.2 | 969.5 | 842.0 | 738.3 | 756.8 |
| 82.5° | 212.0 | 214.6 | 275.4 | 395.6 | 551.5 | 647.2 | 525.7 | 367.9 | 231.8 | 155.9 | 142.7 |
| 85° | 56.1 | 59.4 | 83.2 | 114.3 | 173.7 | 221.2 | 169.1 | 107.6 | 81.9 | 60.8 | 55.5 |
| 87.5° | 15.2 | 17.8 | 29.1 | 35.0 | 43.6 | 35.0 | 43.6 | 37.6 | 36.3 | 19.2 | 13.9 |
| 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)