

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: P509465

Luminaire Tested: **VERD-G-CA2-100-740-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-100-740-U-T4
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 930mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15049 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

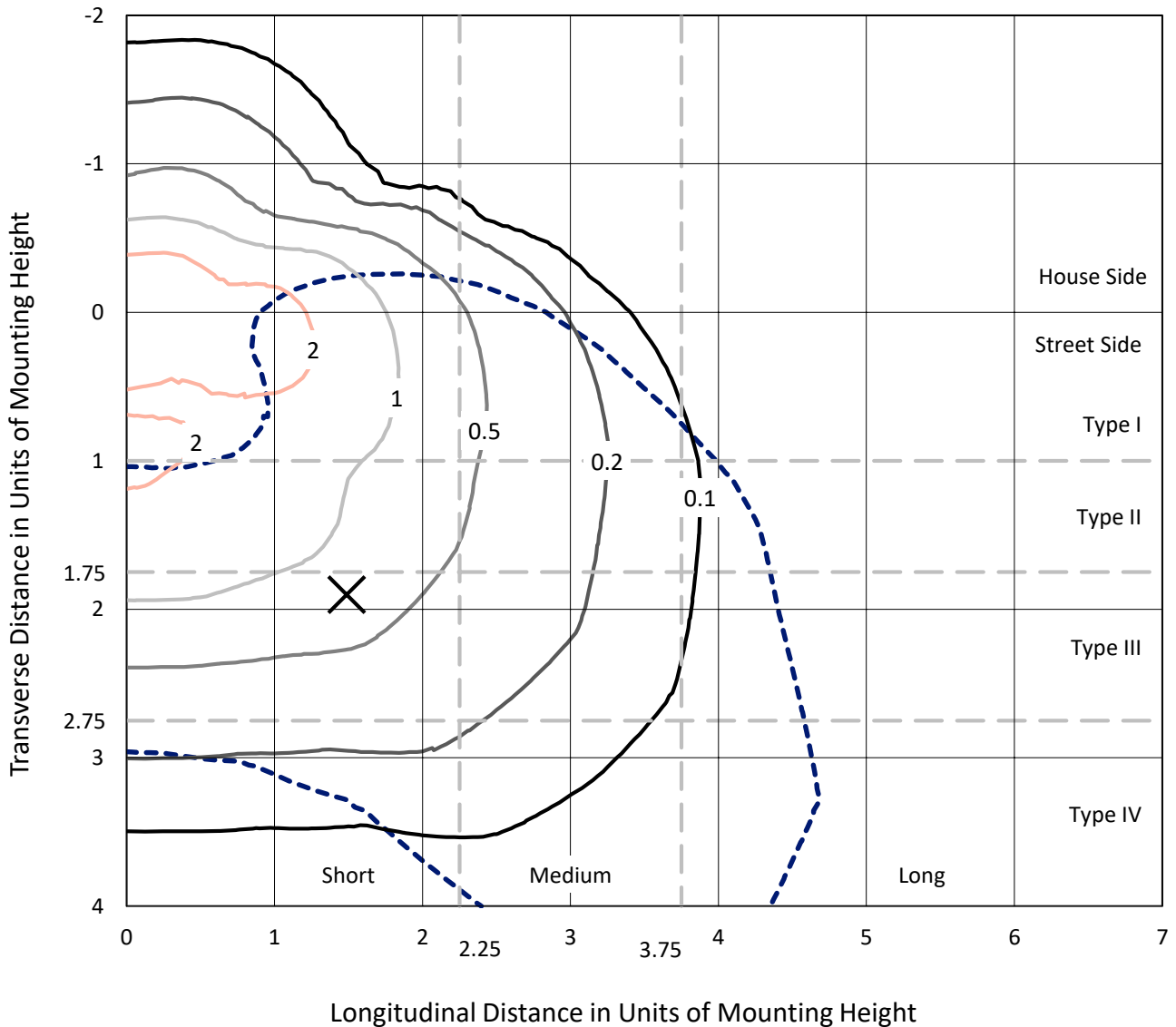
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

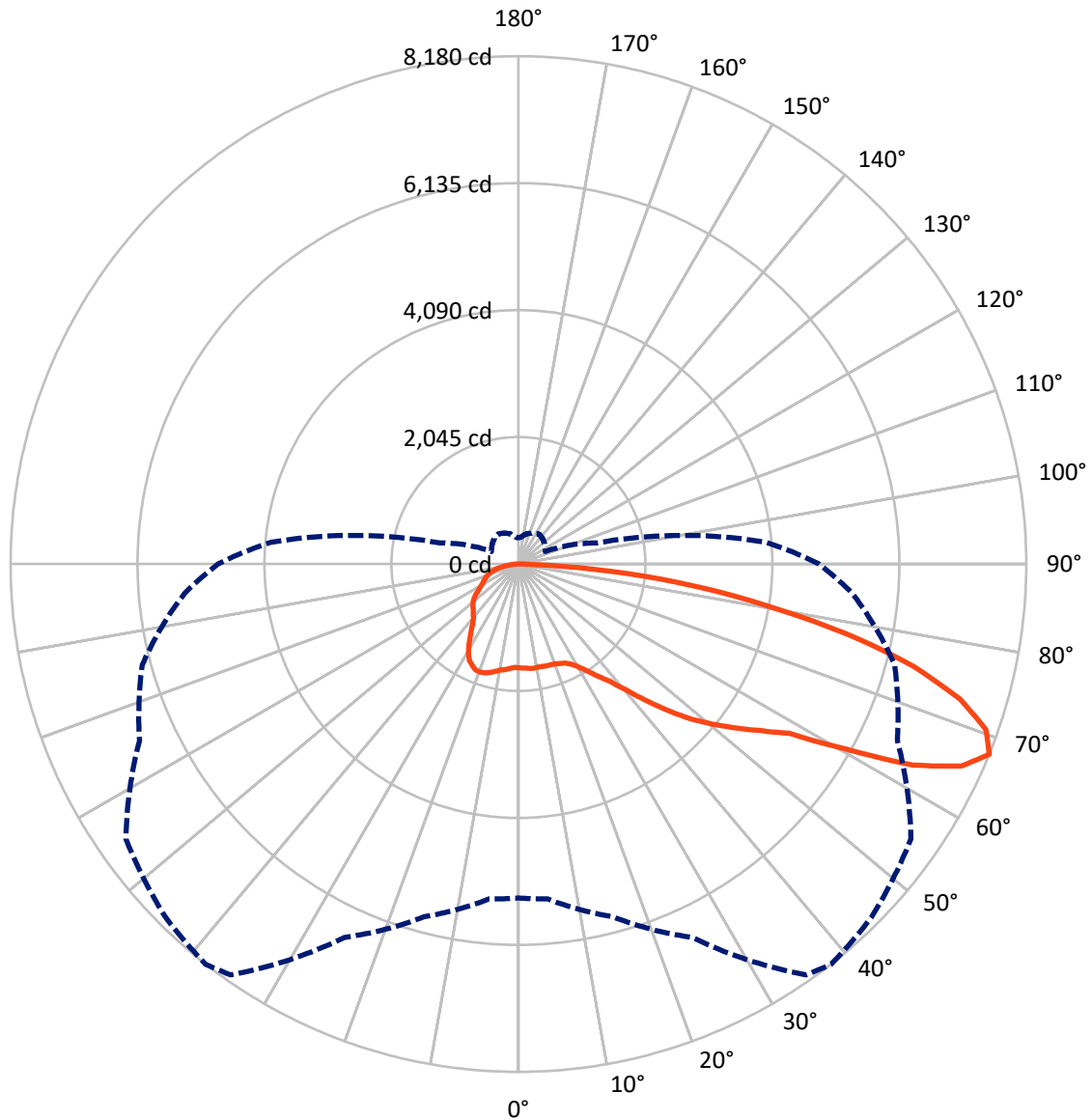
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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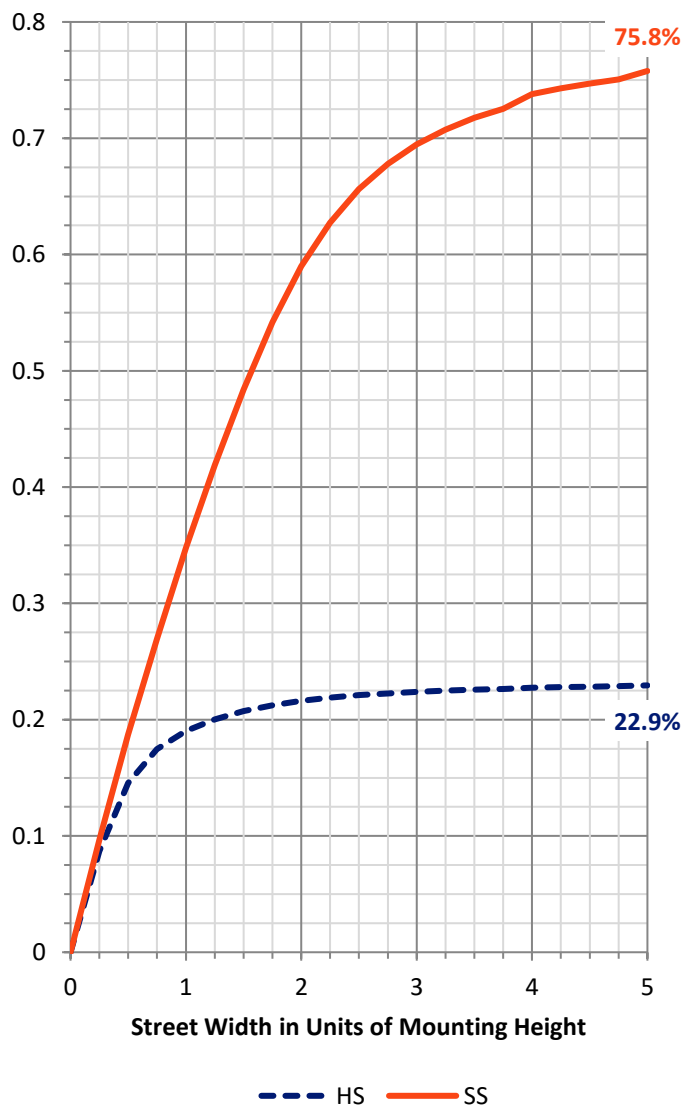
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3491.8	0.0	3491.8
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	11557.2	0.0	11557.2
	% Fixture	76.8	0.0	76.8
Total	Lumens	15049.0	0.0	15049.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.2	1.1
10°-20°	500.3	3.3
20°-30°	848.0	5.6
30°-40°	1299.4	8.6
40°-50°	2141.1	14.2
50°-60°	3060.2	20.3
60°-70°	3812.3	25.3
70°-80°	2716.7	18.1
80°-90°	508.9	3.4
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°	15049.0	100.0
0°-180°	15049.0	100.0

Coefficient of Utilization



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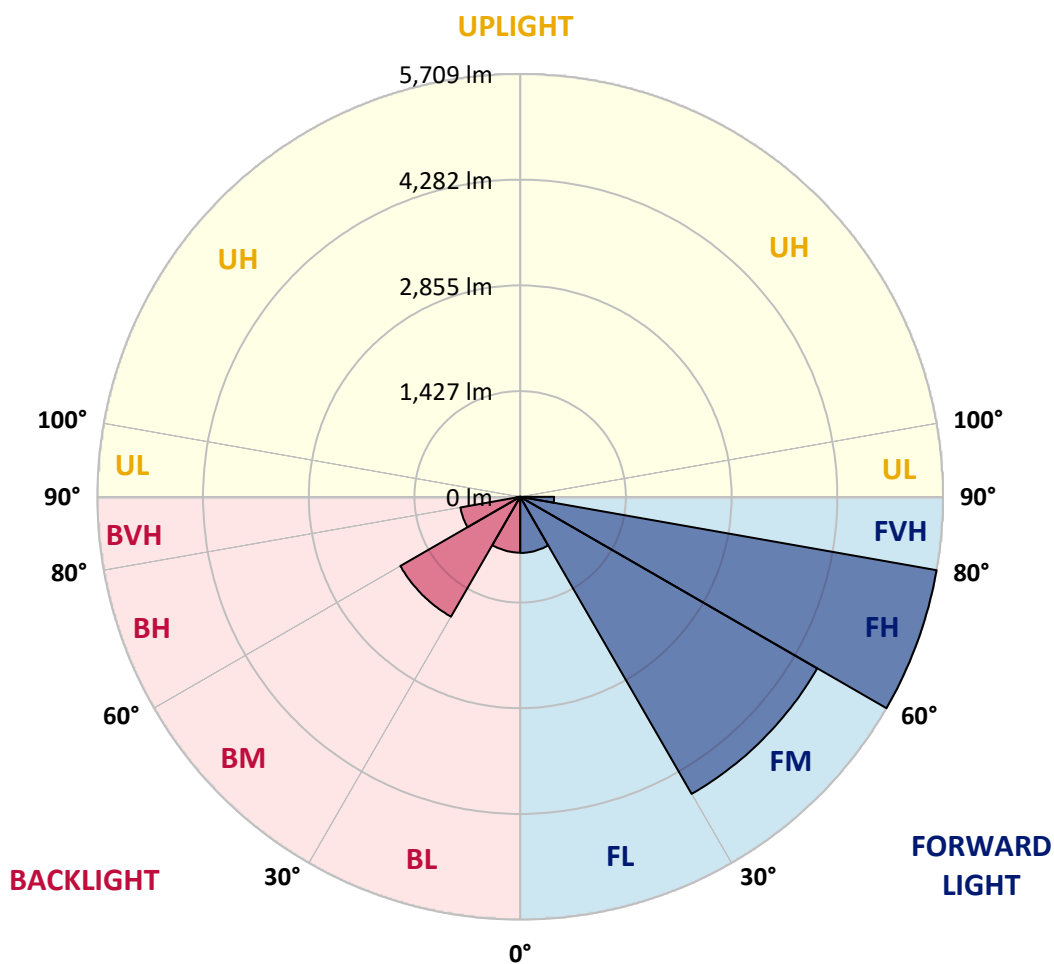
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	757.5	5.0			
FM (30°-60°)	4631.7	30.8			
FH (60°-80°)	5709.2	37.9			G3/7500
FVH (80°-90°)	458.8	3.0			G3/500
BL (0°-30°)	753.0	5.0	B2/1000		
BM (30°-60°)	1869.1	12.4	B2/2500		
BH (60°-80°)	819.7	5.4	B2/1000		G2/1000
BVH (80°-90°)	50.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0
2.5°	1703.0	1710.0	1697.0	1695.0	1687.0	1677.0	1679.0	1671.0	1661.0	1665.0	1667.0
5°	1713.0	1713.0	1703.0	1693.0	1689.0	1687.0	1689.0	1680.0	1678.0	1685.0	1679.0
7.5°	1704.0	1710.0	1693.0	1693.0	1686.0	1698.0	1699.0	1688.0	1696.0	1696.0	1695.0
10°	1702.0	1704.0	1697.0	1683.0	1682.0	1689.0	1703.0	1707.0	1711.0	1710.0	1714.0
12.5°	1679.0	1677.0	1663.0	1667.0	1686.0	1693.0	1717.0	1728.0	1743.0	1747.0	1749.0
15°	1650.0	1658.0	1659.0	1671.0	1691.0	1702.0	1726.0	1748.0	1781.0	1789.0	1788.0
17.5°	1653.0	1656.0	1661.0	1668.0	1699.0	1704.0	1743.0	1767.0	1808.0	1836.0	1850.0
20°	1672.0	1666.0	1676.0	1694.0	1711.0	1715.0	1756.0	1793.0	1849.0	1886.0	1902.0
22.5°	1704.0	1705.0	1710.0	1710.0	1722.0	1740.0	1778.0	1807.0	1876.0	1928.0	1956.0
25°	1734.0	1736.0	1742.0	1740.0	1760.0	1768.0	1804.0	1848.0	1927.0	1988.0	2042.0
27.5°	1779.0	1785.0	1781.0	1782.0	1821.0	1829.0	1845.0	1904.0	1985.0	2067.0	2163.0
30°	1863.0	1863.0	1859.0	1863.0	1905.0	1925.0	1930.0	1988.0	2054.0	2153.0	2298.0
32.5°	1984.0	1985.0	1960.0	1980.0	2027.0	2062.0	2077.0	2169.0	2243.0	2291.0	2478.0
35°	2243.0	2232.0	2206.0	2148.0	2178.0	2221.0	2269.0	2386.0	2549.0	2728.0	2916.0
37.5°	2640.0	2639.0	2547.0	2431.0	2379.0	2401.0	2468.0	2643.0	2898.0	3344.9	3510.9
40°	3081.0	3092.0	2959.0	2814.0	2661.0	2663.0	2680.0	2899.0	3268.0	3913.9	4000.9
42.5°	3520.9	3502.9	3355.9	3217.0	3009.0	2996.0	2951.0	3158.0	3654.9	4368.9	4380.9
45°	3912.9	3903.9	3740.9	3599.9	3403.9	3353.9	3302.9	3434.9	4023.9	4736.9	4657.9
47.5°	4280.9	4292.9	4067.9	3940.9	3746.9	3721.9	3662.9	3746.9	4388.9	5025.9	4882.9
50°	4699.9	4704.9	4435.9	4278.9	4086.9	4054.9	4031.9	4138.9	4765.9	5301.9	5111.9
52.5°	5168.9	5070.9	4808.9	4592.9	4408.9	4384.9	4371.9	4483.9	5178.9	5543.9	5262.9
55°	5758.9	5627.9	5359.9	5001.9	4733.9	4737.9	4692.9	4823.9	5526.9	5710.9	5409.9
57.5°	6016.9	6046.9	5996.9	5670.9	5200.9	5142.9	5031.9	5132.9	5857.9	5906.9	5525.9
60°	6502.9	6618.9	6510.9	6328.9	6189.9	6037.9	5495.9	5533.9	6159.9	6123.9	5538.9
62.5°	6535.9	6575.9	6916.9	6945.9	7080.9	7131.9	6682.9	5988.9	6433.9	6232.9	5582.9
65°	6211.9	6256.9	6667.9	7028.9	7771.9	7841.9	7699.9	6821.9	6655.9	6291.9	5547.9
67.5°	5378.9	5415.9	5882.9	6636.9	8078.9	8179.9	8041.9	7717.9	6733.9	6271.9	5393.9
70°	4600.9	4621.9	5009.9	6064.9	7867.9	7986.9	7931.9	7751.9	6730.9	6153.9	5053.9
72.5°	3613.9	3674.9	3987.9	5029.9	7334.9	7434.9	7450.9	7542.9	6559.9	5765.9	4293.9
75°	2621.0	2654.0	3009.0	3907.9	6330.9	6569.9	6850.9	7197.9	5916.9	4894.9	3175.0
77.5°	1847.0	1879.0	2213.0	2963.0	5123.9	5395.9	5903.9	6107.9	4800.9	3668.9	1671.0
80°	1216.0	1212.0	1530.0	2193.0	3844.9	4035.9	4412.9	4139.9	2786.0	1595.0	182.0
82.5°	714.0	754.0	980.0	1507.0	2687.0	2793.0	2783.0	2180.0	1106.0	165.0	93.0
85°	412.0	427.0	578.0	893.0	1481.0	1496.0	1340.0	846.0	274.0	74.0	55.0
87.5°	184.0	177.0	230.0	295.0	270.0	201.0	125.0	35.0	21.0	14.0	9.0
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°	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0
2.5°	1659.0	1654.0	1679.0	1665.0	1677.0	1670.0	1664.0	1672.0	1687.0	1700.0	1692.0
5°	1672.0	1675.0	1695.0	1678.0	1694.0	1691.0	1683.0	1692.0	1716.0	1728.0	1727.0
7.5°	1687.0	1689.0	1710.0	1703.0	1710.0	1704.0	1717.0	1711.0	1732.0	1740.0	1735.0
10°	1705.0	1708.0	1727.0	1728.0	1731.0	1727.0	1733.0	1736.0	1748.0	1764.0	1754.0
12.5°	1744.0	1751.0	1765.0	1780.0	1778.0	1762.0	1767.0	1751.0	1762.0	1767.0	1775.0
15°	1798.0	1815.0	1823.0	1844.0	1825.0	1816.0	1797.0	1765.0	1755.0	1750.0	1742.0
17.5°	1856.0	1872.0	1887.0	1914.0	1883.0	1859.0	1826.0	1766.0	1721.0	1705.0	1698.0
20°	1921.0	1936.0	1963.0	1981.0	1935.0	1883.0	1830.0	1742.0	1653.0	1592.0	1599.0
22.5°	1994.0	2027.0	2045.0	2040.0	1975.0	1904.0	1813.0	1679.0	1565.0	1474.0	1468.0
25°	2095.0	2114.0	2121.0	2075.0	1997.0	1889.0	1756.0	1604.0	1445.0	1343.0	1328.0
27.5°	2201.0	2221.0	2184.0	2098.0	1990.0	1854.0	1692.0	1476.0	1306.0	1208.0	1197.0
30°	2337.0	2332.0	2227.0	2091.0	1950.0	1770.0	1575.0	1345.0	1188.0	1097.0	1092.0
32.5°	2485.0	2448.0	2262.0	2057.0	1874.0	1660.0	1426.0	1221.0	1100.0	1009.0	1005.0
35°	2835.0	2665.0	2313.0	2014.0	1762.0	1508.0	1288.0	1128.0	1030.0	927.0	907.0
37.5°	3348.9	3075.0	2418.0	1970.0	1634.0	1358.0	1173.0	1059.0	966.0	856.0	837.0
40°	3827.9	3491.9	2602.0	1937.0	1519.0	1237.0	1094.0	1011.0	921.0	811.0	787.0
42.5°	4167.9	3815.9	2823.0	1883.0	1404.0	1141.0	1061.0	993.0	909.0	807.0	788.0
45°	4441.9	4095.9	3042.0	1822.0	1269.0	1059.0	1027.0	978.0	894.0	795.0	773.0
47.5°	4634.9	4271.9	3194.0	1753.0	1140.0	1009.0	998.0	954.0	871.0	778.0	764.0
50°	4833.9	4468.9	3297.9	1682.0	1024.0	971.0	958.0	900.0	824.0	741.0	726.0
52.5°	4963.9	4564.9	3357.9	1668.0	925.0	919.0	903.0	848.0	776.0	686.0	668.0
55°	5062.9	4649.9	3348.9	1586.0	836.0	851.0	841.0	800.0	737.0	649.0	637.0
57.5°	5086.9	4662.9	3267.0	1332.0	752.0	760.0	765.0	773.0	712.0	639.0	619.0
60°	5155.9	4601.9	3122.0	958.0	653.0	673.0	713.0	720.0	678.0	595.0	583.0
62.5°	5111.9	4560.9	2807.0	675.0	583.0	624.0	662.0	662.0	604.0	527.0	519.0
65°	5034.9	4398.9	2196.0	532.0	546.0	588.0	623.0	599.0	549.0	477.0	472.0
67.5°	4838.9	4003.9	1311.0	479.0	520.0	560.0	585.0	549.0	502.0	431.0	423.0
70°	4275.9	3191.0	499.0	454.0	494.0	522.0	538.0	501.0	455.0	384.0	377.0
72.5°	3394.9	1996.0	317.0	423.0	461.0	486.0	496.0	453.0	380.0	299.0	291.0
75°	2043.0	570.0	275.0	366.0	406.0	449.0	432.0	376.0	321.0	251.0	246.0
77.5°	517.0	173.0	245.0	295.0	330.0	381.0	380.0	339.0	280.0	205.0	197.0
80°	124.0	121.0	199.0	218.0	249.0	292.0	288.0	282.0	222.0	142.0	117.0
82.5°	79.0	84.0	135.0	122.0	142.0	170.0	193.0	182.0	166.0	87.0	78.0
85°	53.0	67.0	66.0	46.0	64.0	96.0	125.0	114.0	94.0	54.0	48.0
87.5°	8.0	9.0	12.0	18.0	28.0	47.0	62.0	61.0	46.0	34.0	32.0
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)