

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: P509481

Luminaire Tested: **VERD-G-CA2-100-760-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509481
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-CA2-100-760-U-T4
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 930mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15000 lumens
Efficiency: N/A
Efficacy: 146.2 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

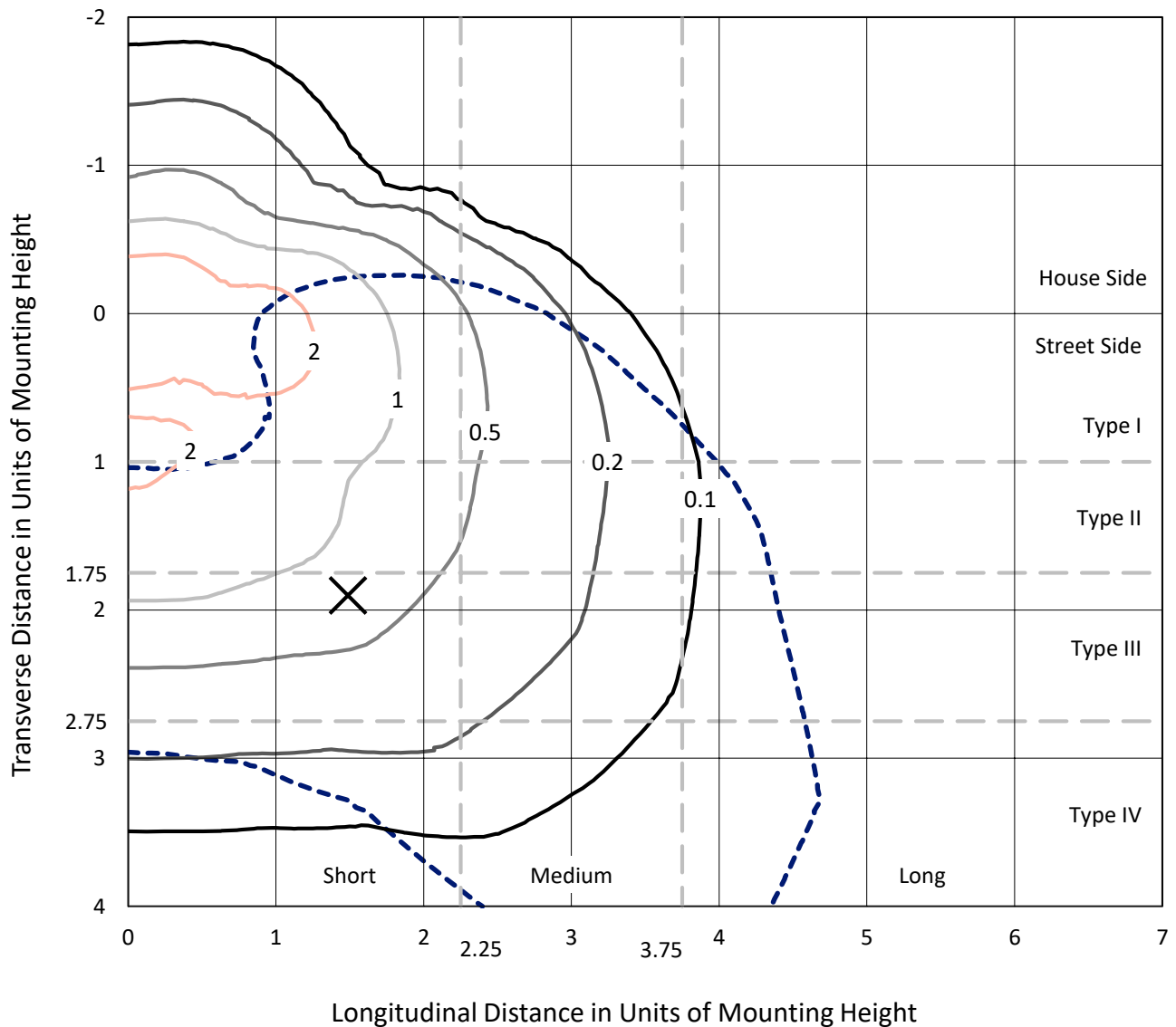
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

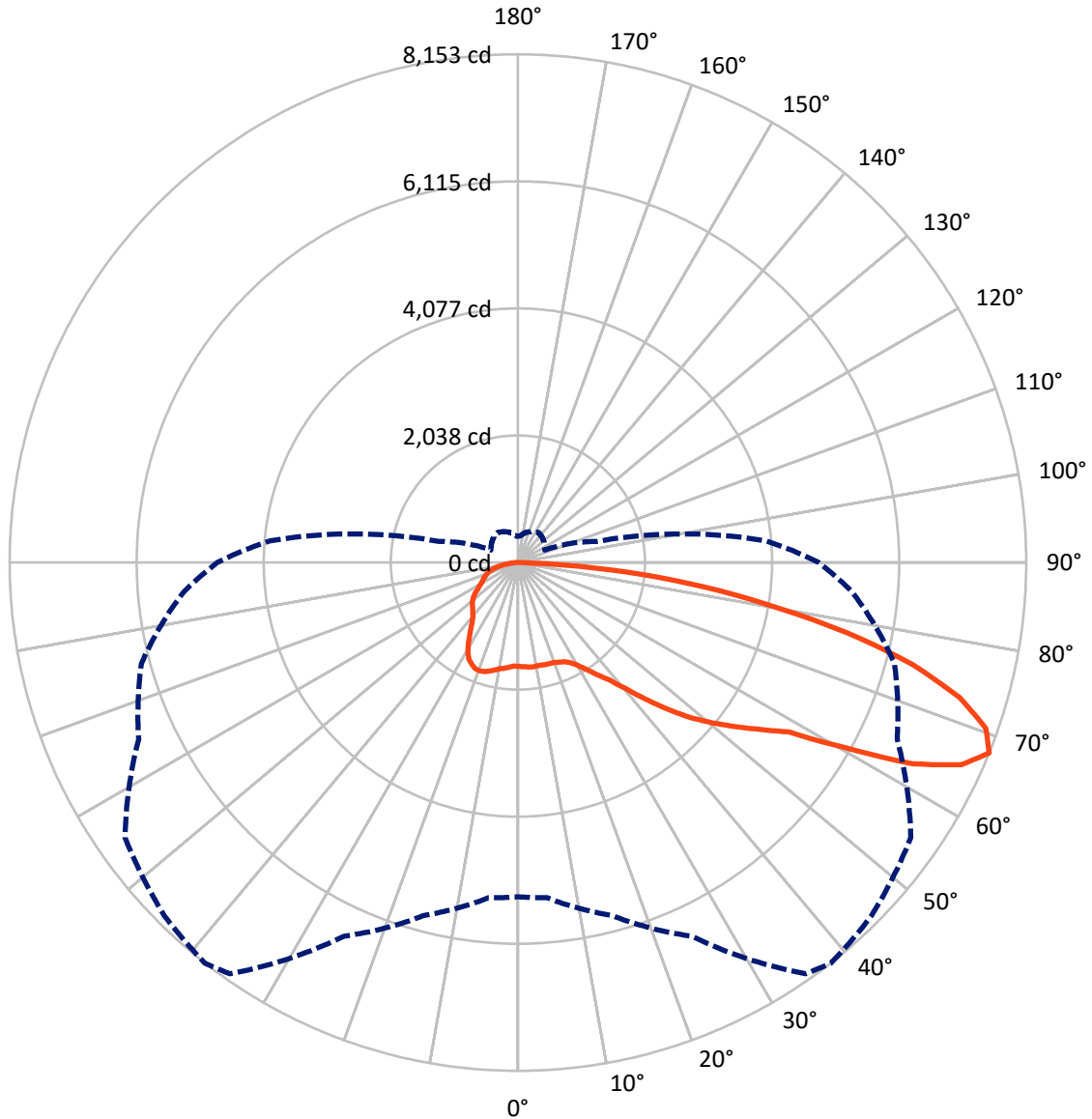
✕ Max cd
 - - - 1/2 Max cd



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	3480.4	0.0	3480.4
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	11519.6	0.0	11519.6
	% Fixture	76.8	0.0	76.8
Total	Lumens	15000.0	0.0	15000.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.7	1.1
10°-20°	498.6	3.3
20°-30°	845.2	5.6
30°-40°	1295.2	8.6
40°-50°	2134.1	14.2
50°-60°	3050.3	20.3
60°-70°	3799.9	25.3
70°-80°	2707.8	18.1
80°-90°	507.2	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°	15000.0	100.0
0°-180°	15000.0	100.0

Coefficient of Utilization



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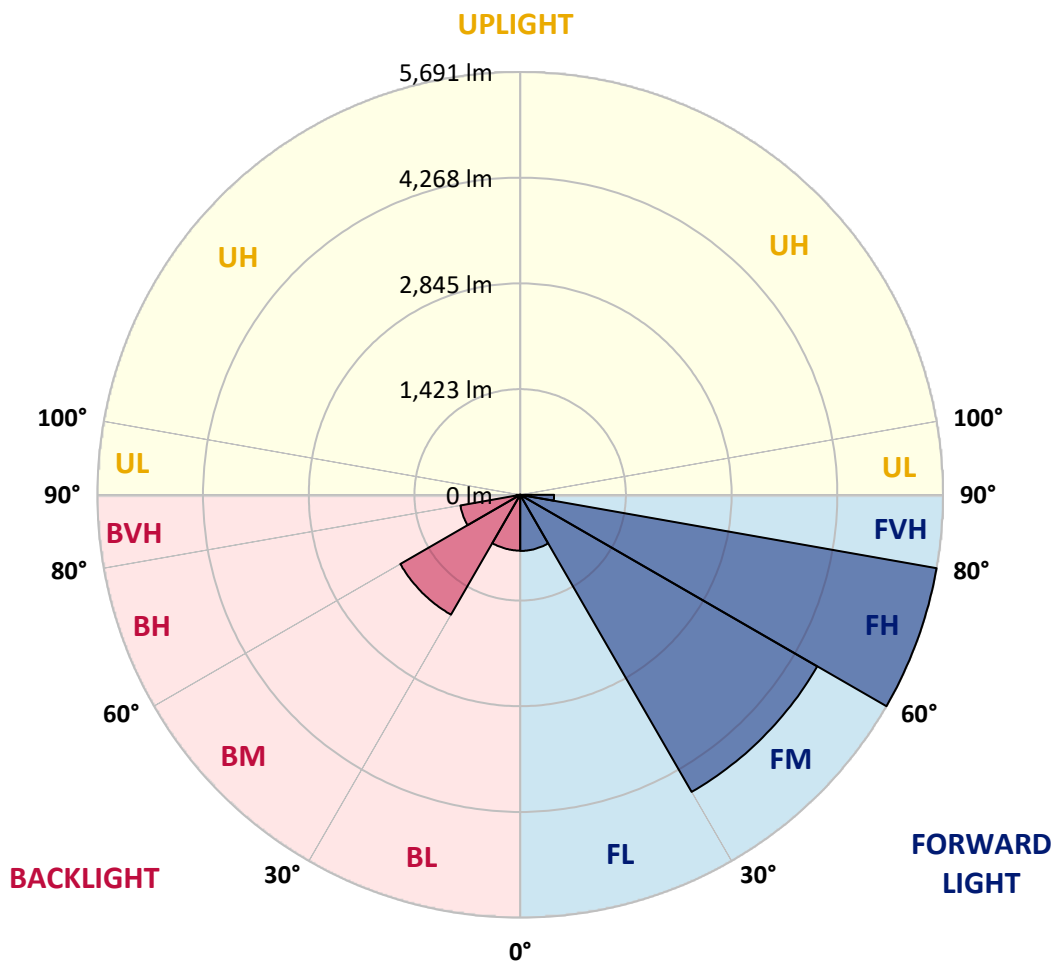
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	755.0	5.0			
FM	(30°-60°)	4616.6	30.8			
FH	(60°-80°)	5690.7	37.9			G3/7500
FVH	(80°-90°)	457.3	3.0			G3/500
BL	(0°-30°)	750.5	5.0	B2/1000		
BM	(30°-60°)	1863.0	12.4	B2/2500		
BH	(60°-80°)	817.0	5.4	B2/1000		G2/1000
BVH	(80°-90°)	50.0	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°	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5
2.5°	1697.4	1704.4	1691.4	1689.5	1681.5	1671.5	1673.5	1665.5	1655.6	1659.6	1661.5
5°	1707.4	1707.4	1697.4	1687.5	1683.5	1681.5	1683.5	1674.5	1672.5	1679.5	1673.5
7.5°	1698.4	1704.4	1687.5	1687.5	1680.5	1692.4	1693.4	1682.5	1690.5	1690.5	1689.5
10°	1696.4	1698.4	1691.4	1677.5	1676.5	1683.5	1697.4	1701.4	1705.4	1704.4	1708.4
12.5°	1673.5	1671.5	1657.6	1661.5	1680.5	1687.5	1711.4	1722.3	1737.3	1741.3	1743.3
15°	1644.6	1652.6	1653.6	1665.5	1685.5	1696.4	1720.4	1742.3	1775.2	1783.1	1782.2
17.5°	1647.6	1650.6	1655.6	1662.5	1693.4	1698.4	1737.3	1761.2	1802.1	1830.0	1843.9
20°	1666.5	1660.6	1670.5	1688.5	1705.4	1709.4	1750.3	1787.1	1843.0	1879.8	1895.8
22.5°	1698.4	1699.4	1704.4	1704.4	1716.4	1734.3	1772.2	1801.1	1869.9	1921.7	1949.6
25°	1728.3	1730.3	1736.3	1734.3	1754.2	1762.2	1798.1	1842.0	1920.7	1981.5	2035.3
27.5°	1773.2	1779.2	1775.2	1776.2	1815.0	1823.0	1839.0	1897.8	1978.5	2060.2	2155.9
30°	1856.9	1856.9	1852.9	1856.9	1898.8	1918.7	1923.7	1981.5	2047.3	2146.0	2290.5
32.5°	1977.5	1978.5	1953.6	1973.5	2020.4	2055.3	2070.2	2161.9	2235.7	2283.5	2469.9
35°	2235.7	2224.7	2198.8	2141.0	2170.9	2213.7	2261.6	2378.2	2540.7	2719.1	2906.5
37.5°	2631.4	2630.4	2538.7	2423.0	2371.2	2393.1	2459.9	2634.4	2888.5	3334.1	3499.5
40°	3070.9	3081.9	2949.3	2804.8	2652.3	2654.3	2671.2	2889.5	3257.3	3901.2	3987.9
42.5°	3509.5	3491.5	3345.0	3206.5	2999.2	2986.2	2941.3	3147.7	3643.0	4354.7	4366.7
45°	3900.2	3891.2	3728.8	3588.2	3392.9	3343.0	3292.2	3423.8	4010.8	4721.5	4642.8
47.5°	4267.0	4279.0	4054.7	3928.1	3734.7	3709.8	3651.0	3734.7	4374.6	5009.6	4867.0
50°	4684.6	4689.6	4421.5	4265.0	4073.6	4041.7	4018.8	4125.5	4750.4	5284.7	5095.3
52.5°	5152.1	5054.4	4793.3	4578.0	4394.6	4370.7	4357.7	4469.3	5162.1	5525.9	5245.8
55°	5740.2	5609.6	5342.5	4985.6	4718.5	4722.5	4677.6	4808.2	5508.9	5692.3	5392.3
57.5°	5997.3	6027.2	5977.4	5652.4	5184.0	5126.2	5015.5	5116.2	5838.8	5887.7	5507.9
60°	6481.7	6597.3	6489.7	6308.3	6169.8	6018.2	5478.0	5515.9	6139.8	6104.0	5520.9
62.5°	6514.6	6554.5	6894.4	6923.3	7057.8	7108.7	6661.1	5969.4	6413.0	6212.6	5564.7
65°	6191.7	6236.5	6646.2	7006.0	7746.6	7816.3	7674.8	6799.7	6634.2	6271.4	5529.9
67.5°	5361.4	5398.3	5863.8	6615.3	8052.6	8153.2	8015.7	7692.8	6712.0	6251.5	5376.4
70°	4585.9	4606.9	4993.6	6045.2	7842.3	7960.9	7906.1	7726.6	6709.0	6133.9	5037.5
72.5°	3602.2	3663.0	3975.0	5013.5	7311.0	7410.7	7426.6	7518.3	6538.5	5747.1	4280.0
75°	2612.4	2645.3	2999.2	3895.2	6310.3	6548.5	6828.6	7174.5	5897.6	4879.0	3164.6
77.5°	1841.0	1872.9	2205.8	2953.3	5107.2	5378.3	5884.7	6088.0	4785.3	3657.0	1665.5
80°	1212.0	1208.0	1525.0	2185.8	3832.4	4022.8	4398.6	4126.5	2776.9	1589.8	181.4
82.5°	711.7	751.5	976.8	1502.1	2678.2	2783.9	2773.9	2172.9	1102.4	164.5	92.7
85°	410.7	425.6	576.1	890.1	1476.2	1491.1	1335.6	843.2	273.1	73.8	54.8
87.5°	183.4	176.4	229.2	294.0	269.1	200.3	124.6	34.9	20.9	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°	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5	1666.5
2.5°	1653.6	1648.6	1673.5	1659.6	1671.5	1664.5	1658.6	1666.5	1681.5	1694.4	1686.5
5°	1666.5	1669.5	1689.5	1672.5	1688.5	1685.5	1677.5	1686.5	1710.4	1722.3	1721.4
7.5°	1681.5	1683.5	1704.4	1697.4	1704.4	1698.4	1711.4	1705.4	1726.3	1734.3	1729.3
10°	1699.4	1702.4	1721.4	1722.3	1725.3	1721.4	1727.3	1730.3	1742.3	1758.2	1748.3
12.5°	1738.3	1745.3	1759.2	1774.2	1772.2	1756.2	1761.2	1745.3	1756.2	1761.2	1769.2
15°	1792.1	1809.1	1817.0	1838.0	1819.0	1810.1	1791.1	1759.2	1749.3	1744.3	1736.3
17.5°	1849.9	1865.9	1880.8	1907.7	1876.8	1852.9	1820.0	1760.2	1715.4	1699.4	1692.4
20°	1914.7	1929.7	1956.6	1974.5	1928.7	1876.8	1824.0	1736.3	1647.6	1586.8	1593.8
22.5°	1987.5	2020.4	2038.3	2033.3	1968.5	1897.8	1807.1	1673.5	1559.9	1469.2	1463.2
25°	2088.1	2107.1	2114.1	2068.2	1990.5	1882.8	1750.3	1598.8	1440.3	1338.6	1323.7
27.5°	2193.8	2213.7	2176.9	2091.1	1983.5	1847.9	1686.5	1471.2	1301.7	1204.0	1193.1
30°	2329.4	2324.4	2219.7	2084.2	1943.6	1764.2	1569.8	1340.6	1184.1	1093.4	1088.4
32.5°	2476.9	2440.0	2254.6	2050.3	1867.9	1654.6	1421.3	1217.0	1096.4	1005.7	1001.7
35°	2825.7	2656.3	2305.4	2007.4	1756.2	1503.1	1283.8	1124.3	1026.6	924.0	904.0
37.5°	3338.0	3064.9	2410.1	1963.6	1628.7	1353.6	1169.2	1055.5	962.8	853.2	834.3
40°	3815.5	3480.6	2593.5	1930.7	1514.0	1233.0	1090.4	1007.7	918.0	808.3	784.4
42.5°	4154.4	3803.5	2813.8	1876.8	1399.4	1137.3	1057.5	989.8	906.0	804.4	785.4
45°	4427.5	4082.6	3032.0	1816.0	1264.8	1055.5	1023.6	974.8	891.1	792.4	770.5
47.5°	4619.8	4258.0	3183.6	1747.3	1136.3	1005.7	994.7	950.9	868.2	775.5	761.5
50°	4818.2	4454.4	3287.2	1676.5	1020.7	967.8	954.9	897.1	821.3	738.6	723.6
52.5°	4947.8	4550.1	3347.0	1662.5	922.0	916.0	900.0	845.2	773.5	683.8	665.8
55°	5046.4	4634.8	3338.0	1580.8	833.3	848.2	838.2	797.4	734.6	646.9	634.9
57.5°	5070.4	4647.7	3256.3	1327.6	749.5	757.5	762.5	770.5	709.7	636.9	617.0
60°	5139.1	4586.9	3111.8	954.9	650.9	670.8	710.7	717.6	675.8	593.1	581.1
62.5°	5095.3	4546.1	2797.8	672.8	581.1	622.0	659.8	659.8	602.0	525.3	517.3
65°	5018.5	4384.6	2188.8	530.3	544.2	586.1	621.0	597.0	547.2	475.4	470.5
67.5°	4823.2	3990.9	1306.7	477.4	518.3	558.2	583.1	547.2	500.4	429.6	421.6
70°	4262.0	3180.6	497.4	452.5	492.4	520.3	536.2	499.4	453.5	382.7	375.8
72.5°	3383.9	1989.5	316.0	421.6	459.5	484.4	494.4	451.5	378.8	298.0	290.0
75°	2036.3	568.1	274.1	364.8	404.7	447.5	430.6	374.8	319.9	250.2	245.2
77.5°	515.3	172.4	244.2	294.0	328.9	379.8	378.8	337.9	279.1	204.3	196.4
80°	123.6	120.6	198.3	217.3	248.2	291.0	287.1	281.1	221.3	141.5	116.6
82.5°	78.7	83.7	134.6	121.6	141.5	169.4	192.4	181.4	165.5	86.7	77.7
85°	52.8	66.8	65.8	45.8	63.8	95.7	124.6	113.6	93.7	53.8	47.8
87.5°	8.0	9.0	12.0	17.9	27.9	46.8	61.8	60.8	45.8	33.9	31.9
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)