

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: P507713

Luminaire Tested: **VERD-S-CA1-80-722-U-T2**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-80-722-U-T2
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1500mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8868 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 83.1
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

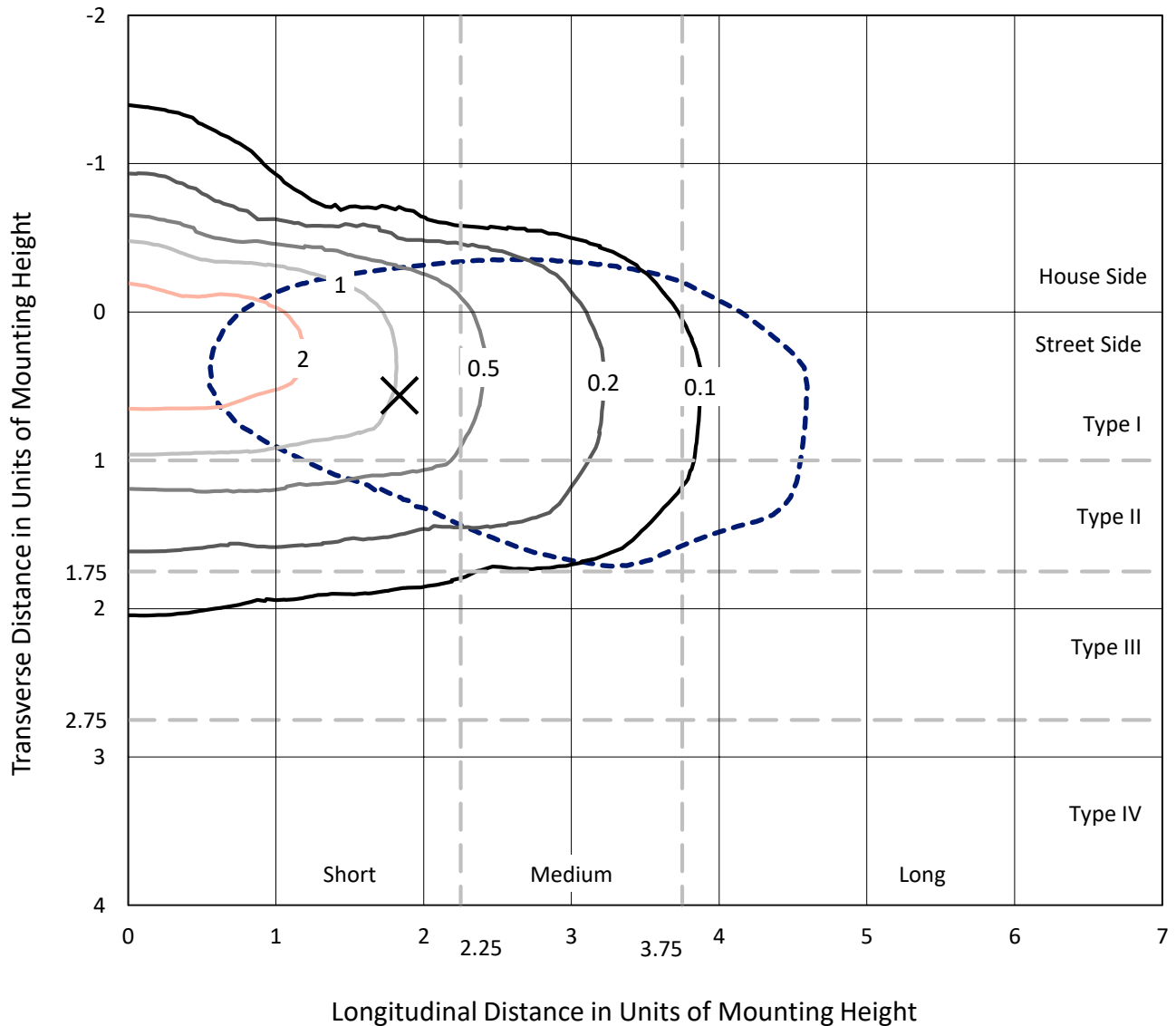


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Iso-Footcandle Lines of Horizontal Illumination

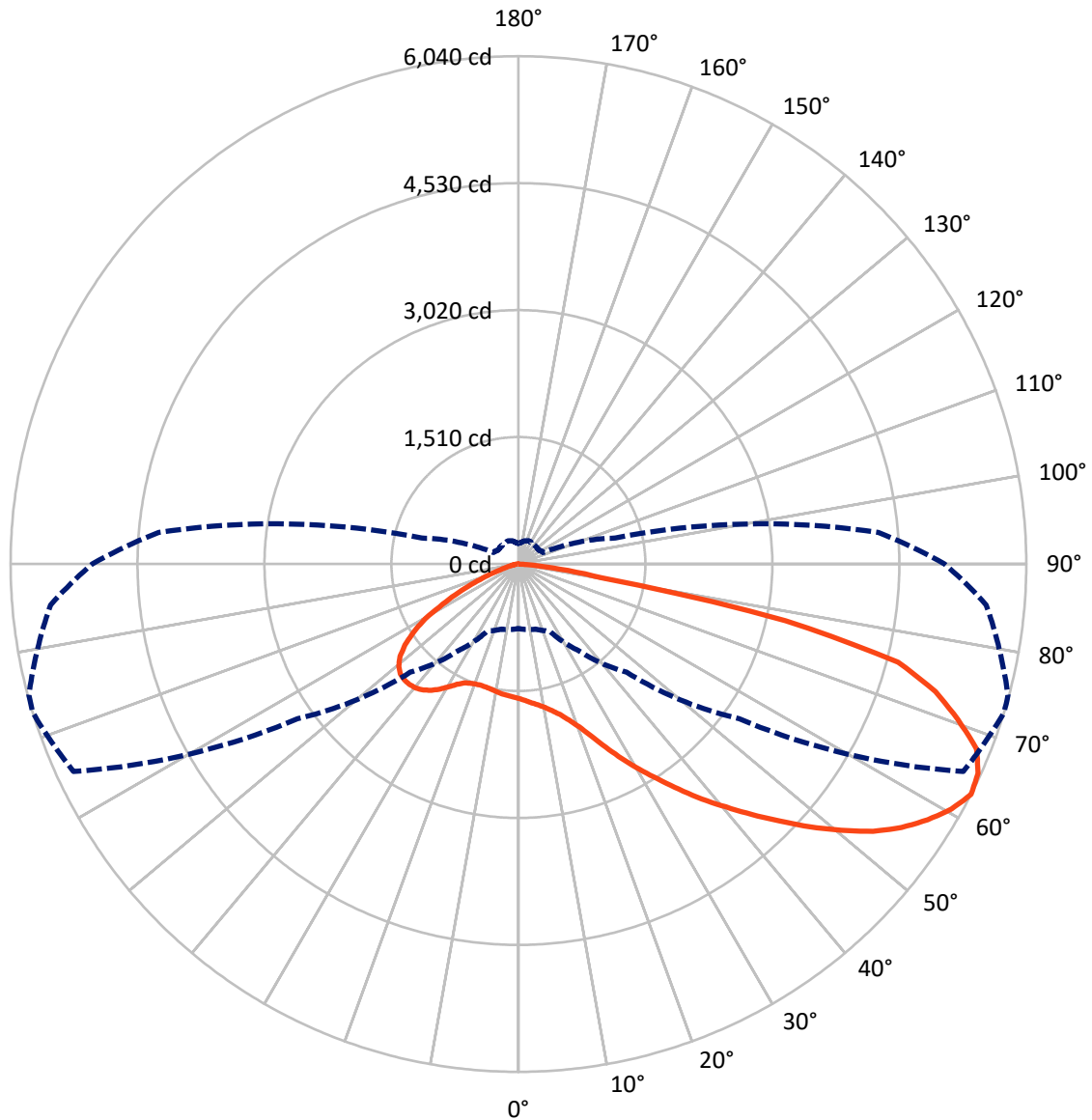
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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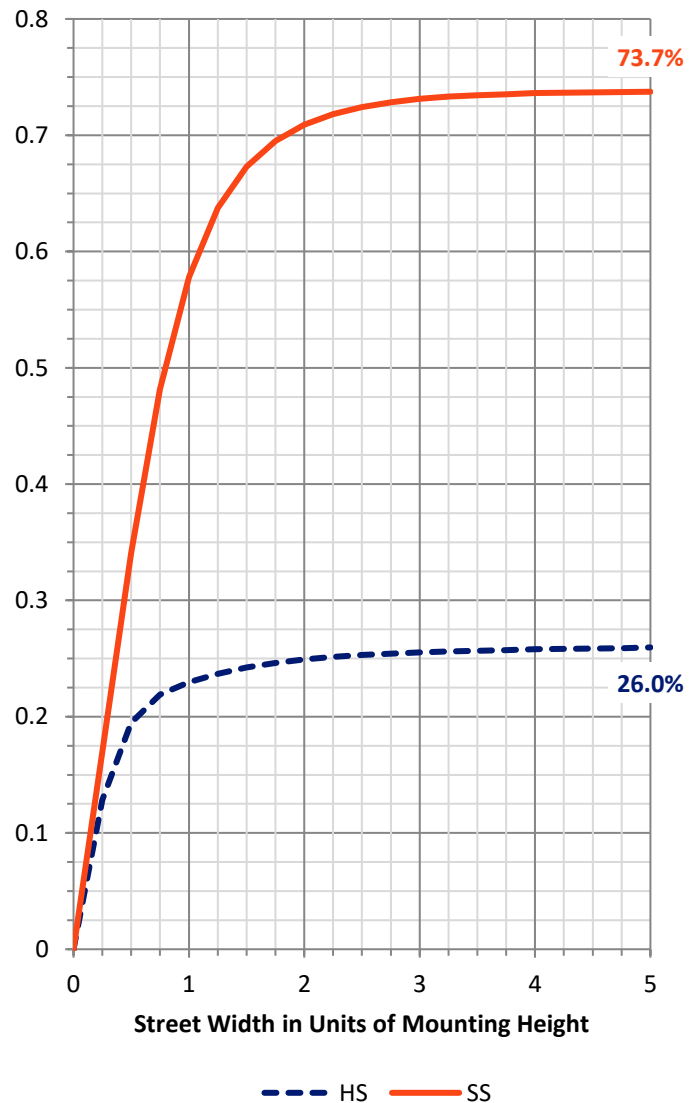
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2336.0	0.0	2336.0
	% Fixture	26.3	0.0	26.3
Street Side	Lumens	6532.0	0.0	6532.0
	% Fixture	73.7	0.0	73.7
Total	Lumens	8868.0	0.0	8868.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.8	1.7
10°-20°	473.2	5.3
20°-30°	819.1	9.2
30°-40°	1186.2	13.4
40°-50°	1519.4	17.1
50°-60°	1759.1	19.8
60°-70°	1771.4	20.0
70°-80°	1083.0	12.2
80°-90°	102.0	1.2
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°	8868.0	100.0
0°-180°	8868.0	100.0



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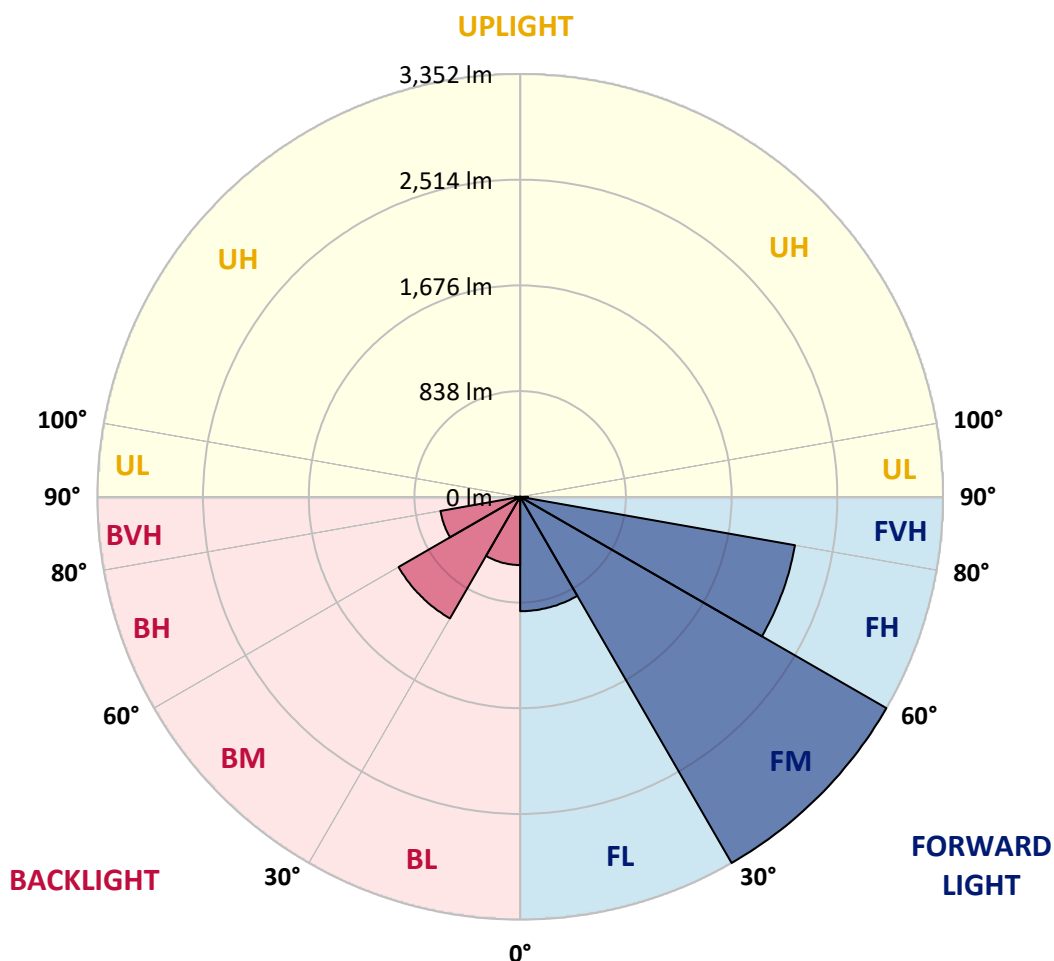
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	906.4	10.2			
FM	(30°-60°)	3351.8	37.8			
FH	(60°-80°)	2212.2	24.9			G2/5000
FVH	(80°-90°)	61.6	0.7			G1/100
BL	(0°-30°)	540.7	6.1	B2/1000		
BM	(30°-60°)	1112.8	12.5	B2/2500		
BH	(60°-80°)	642.1	7.2	B2/1000		G2/1000
BVH	(80°-90°)	40.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1601.8	1601.8	1601.8	1601.8	1601.8	1601.8	1601.8	1601.8	1601.8	1601.8	1601.8
2.5°	1684.3	1681.8	1676.8	1674.3	1669.3	1656.8	1649.3	1636.8	1626.8	1624.3	1609.3
5°	1766.7	1769.2	1766.7	1759.2	1749.3	1731.8	1706.8	1674.3	1659.3	1654.3	1629.3
7.5°	1844.2	1844.2	1841.7	1831.7	1821.7	1799.2	1764.2	1726.8	1691.8	1681.8	1649.3
10°	1919.2	1919.2	1911.7	1901.7	1886.7	1859.2	1824.2	1776.7	1734.3	1719.3	1664.3
12.5°	1999.1	1996.6	1986.7	1971.7	1951.7	1929.2	1891.7	1839.2	1791.7	1774.2	1696.8
15°	2061.6	2061.6	2054.1	2044.1	2026.6	1999.1	1964.2	1919.2	1856.7	1841.7	1741.8
17.5°	2116.6	2119.1	2114.1	2114.1	2099.1	2079.1	2049.1	2011.6	1951.7	1929.2	1809.2
20°	2161.6	2159.1	2169.1	2176.6	2181.6	2169.1	2151.6	2126.6	2066.6	2044.1	1896.7
22.5°	2181.6	2186.6	2216.6	2254.0	2276.5	2279.0	2276.5	2274.0	2221.6	2191.6	2016.6
25°	2191.6	2199.1	2244.0	2309.0	2359.0	2396.5	2436.5	2461.4	2414.0	2391.5	2196.6
27.5°	2201.6	2209.1	2261.5	2341.5	2436.5	2526.4	2606.4	2653.9	2618.9	2591.4	2381.5
30°	2184.1	2191.6	2251.5	2364.0	2498.9	2656.4	2768.8	2836.3	2831.3	2813.8	2593.9
32.5°	2146.6	2154.1	2221.6	2361.5	2563.9	2788.8	2913.8	3026.2	3048.7	3031.2	2806.3
35°	2079.1	2089.1	2166.6	2331.5	2593.9	2898.8	3066.2	3231.1	3288.6	3291.1	3038.7
37.5°	1986.7	1991.6	2086.6	2274.0	2603.9	2976.2	3193.6	3428.5	3546.0	3548.5	3276.1
40°	1861.7	1874.2	1991.6	2201.6	2581.4	3031.2	3321.1	3643.4	3798.4	3780.9	3533.5
42.5°	1719.3	1729.3	1844.2	2086.6	2528.9	3063.7	3438.5	3868.3	4073.3	4063.3	3775.9
45°	1591.8	1606.8	1694.3	1926.7	2429.0	3071.2	3541.0	4093.3	4358.1	4345.6	4023.3
47.5°	1421.9	1459.4	1576.8	1784.2	2279.0	3038.7	3633.4	4398.1	4673.0	4655.5	4283.2
50°	1094.5	1107.0	1354.4	1664.3	2109.1	2958.7	3713.4	4680.5	4977.9	4965.4	4555.6
52.5°	987.1	997.1	1077.0	1526.8	1939.2	2816.3	3760.9	5042.8	5282.7	5247.8	4800.4
55°	927.1	937.1	982.1	1219.5	1791.7	2601.4	3770.9	5350.2	5530.1	5497.7	5030.4
57.5°	872.1	879.6	922.1	1044.6	1621.8	2304.0	3718.4	5597.6	5740.0	5707.6	5237.8
60°	814.7	822.1	867.1	949.6	1411.9	2031.6	3546.0	5790.0	5917.5	5885.0	5425.2
62.5°	767.2	779.7	802.2	879.6	1262.0	1819.2	3208.6	5837.5	6039.9	6027.4	5585.1
65°	709.7	714.7	749.7	812.2	1114.5	1671.8	2846.3	5700.1	6007.4	6029.9	5680.1
67.5°	644.7	647.2	679.7	724.7	932.1	1526.8	2523.9	5515.1	5877.5	5915.0	5610.1
70°	557.3	559.8	589.7	637.2	772.2	1324.4	2191.6	5242.8	5545.1	5580.1	5340.2
72.5°	464.8	464.8	489.8	542.3	637.2	1097.0	1754.3	4645.5	5187.8	5245.3	4900.4
75°	202.4	209.9	252.4	302.4	412.3	807.2	1197.0	3596.0	4663.0	4703.0	4295.7
77.5°	55.0	55.0	65.0	85.0	119.9	359.8	379.8	1581.8	3248.6	3351.1	3176.1
80°	45.0	45.0	50.0	65.0	82.5	177.4	127.4	509.8	1004.6	1324.4	1646.8
82.5°	25.0	25.0	30.0	37.5	45.0	45.0	45.0	259.9	494.8	527.3	689.7
85°	12.5	15.0	15.0	17.5	17.5	15.0	15.0	52.5	95.0	107.5	164.9
87.5°	5.0	5.0	5.0	5.0	2.5	2.5	5.0	7.5	7.5	10.0	12.5
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°	1601.8	1601.8	1601.8	1601.8	1601.8	1601.8	1601.8	1601.8	1601.8	1601.8	1601.8
2.5°	1604.3	1596.8	1586.8	1579.3	1564.3	1549.3	1539.3	1531.8	1529.3	1526.8	1526.8
5°	1614.3	1601.8	1574.3	1546.8	1524.3	1504.4	1486.9	1474.4	1469.4	1466.9	1466.9
7.5°	1629.3	1611.8	1566.8	1526.8	1486.9	1456.9	1429.4	1411.9	1401.9	1404.4	1411.9
10°	1636.8	1609.3	1549.3	1509.4	1456.9	1409.4	1376.9	1356.9	1349.4	1349.4	1346.9
12.5°	1656.8	1616.8	1536.8	1474.4	1429.4	1364.4	1326.9	1309.4	1299.4	1284.5	1279.5
15°	1686.8	1636.8	1531.8	1449.4	1379.4	1321.9	1272.0	1247.0	1239.5	1219.5	1219.5
17.5°	1741.8	1671.8	1531.8	1421.9	1331.9	1277.0	1212.0	1177.0	1172.0	1159.5	1157.0
20°	1806.7	1719.3	1544.3	1394.4	1282.0	1209.5	1137.0	1102.0	1089.5	1077.0	1077.0
22.5°	1909.2	1791.7	1566.8	1374.4	1229.5	1139.5	1059.5	1009.6	989.6	987.1	982.1
25°	2066.6	1906.7	1601.8	1354.4	1177.0	1062.0	982.1	917.1	884.6	879.6	877.1
27.5°	2239.0	2064.1	1671.8	1336.9	1119.5	974.6	879.6	809.7	769.7	764.7	762.2
30°	2424.0	2226.5	1764.2	1321.9	1047.1	874.6	767.2	699.7	662.2	652.2	654.7
32.5°	2626.4	2401.5	1864.2	1309.4	969.6	744.7	644.7	599.7	559.8	542.3	544.8
35°	2823.8	2556.4	1951.7	1299.4	867.1	627.2	549.8	502.3	462.3	439.8	439.8
37.5°	3046.2	2738.8	2024.1	1279.5	757.2	547.3	472.3	424.8	394.8	374.8	374.8
40°	3263.6	2921.3	2081.6	1242.0	634.7	482.3	389.8	362.3	342.4	329.9	324.9
42.5°	3476.0	3103.7	2119.1	1179.5	532.3	404.8	324.9	322.4	324.9	312.4	309.9
45°	3695.9	3283.6	2146.6	1079.5	459.8	334.9	289.9	307.4	324.9	319.9	319.9
47.5°	3935.8	3458.5	2169.1	917.1	389.8	294.9	287.4	304.9	327.4	329.9	329.9
50°	4165.7	3635.9	2161.6	709.7	342.4	292.4	289.9	294.9	324.9	332.4	327.4
52.5°	4380.6	3788.4	2101.6	517.3	319.9	297.4	297.4	292.4	317.4	322.4	324.9
55°	4598.0	3930.8	1966.7	409.8	307.4	297.4	309.9	297.4	304.9	307.4	312.4
57.5°	4795.5	4075.8	1766.7	367.3	304.9	297.4	309.9	302.4	302.4	292.4	289.9
60°	4947.9	4195.7	1524.3	349.9	297.4	299.9	304.9	304.9	297.4	274.9	267.4
62.5°	5067.8	4295.7	1192.0	327.4	292.4	294.9	292.4	302.4	284.9	252.4	244.9
65°	5135.3	4313.2	912.1	302.4	279.9	289.9	282.4	279.9	264.9	229.9	214.9
67.5°	5060.3	4190.7	637.2	277.4	264.9	282.4	269.9	259.9	242.4	209.9	189.9
70°	4770.5	3835.9	419.8	244.9	244.9	264.9	254.9	239.9	217.4	192.4	169.9
72.5°	4225.7	3306.1	252.4	202.4	217.4	242.4	237.4	217.4	152.4	117.4	102.5
75°	3573.5	2716.3	162.4	152.4	177.4	217.4	219.9	194.9	129.9	105.0	105.0
77.5°	2596.4	1784.2	95.0	85.0	117.4	174.9	187.4	142.4	139.9	194.9	142.4
80°	1331.9	864.6	72.5	52.5	62.5	129.9	105.0	107.5	212.4	157.4	100.0
82.5°	577.3	342.4	45.0	37.5	40.0	65.0	67.5	177.4	164.9	92.5	62.5
85°	122.4	65.0	25.0	25.0	25.0	30.0	37.5	192.4	102.5	47.5	20.0
87.5°	12.5	12.5	12.5	12.5	12.5	12.5	10.0	10.0	10.0	7.5	7.5
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)