

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: P507576

Luminaire Tested: **VERD-S-CA1-50-727-U-T2-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-50-727-U-T2-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 940mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5810 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

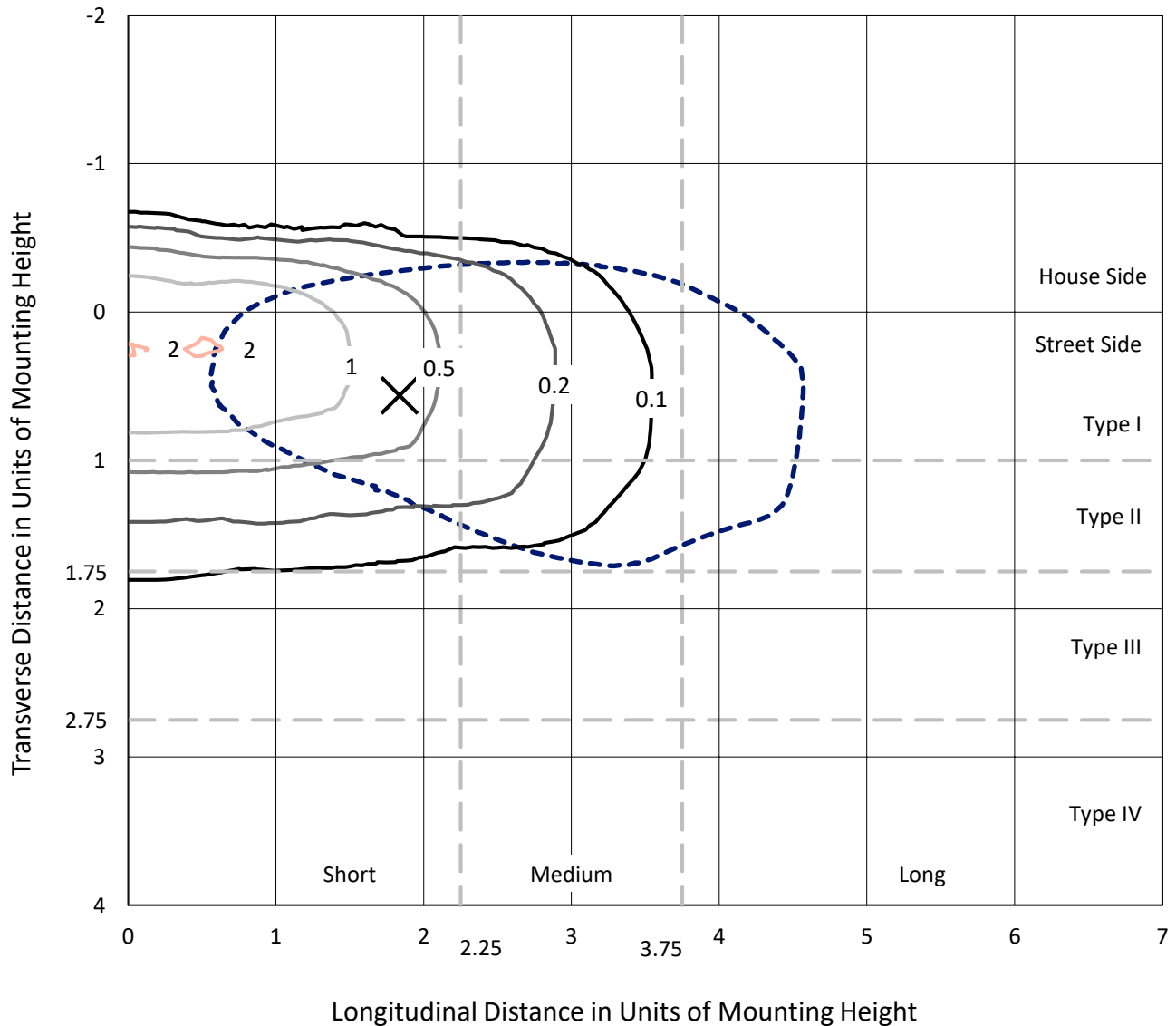
Input Watts (W): 53.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

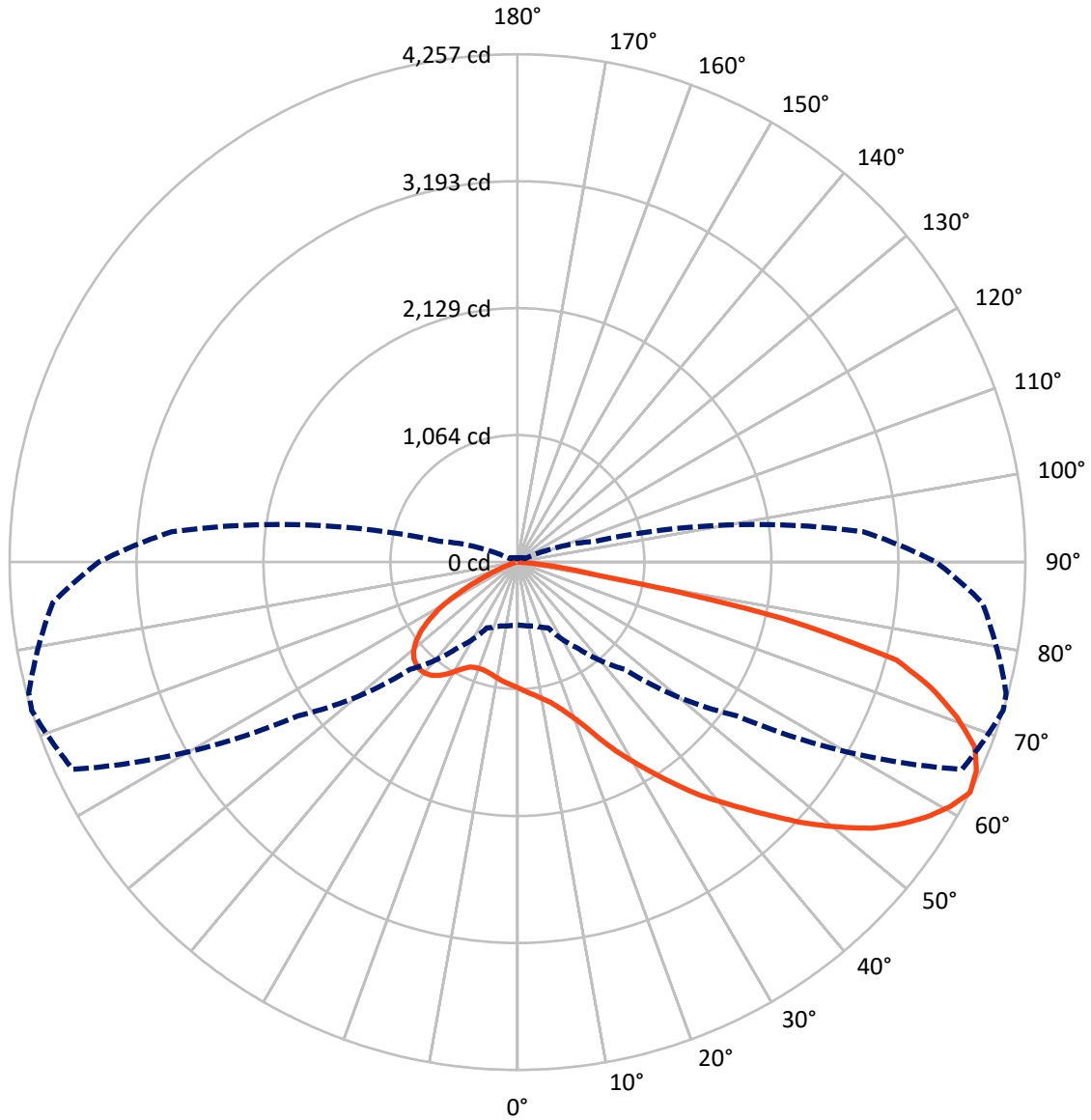
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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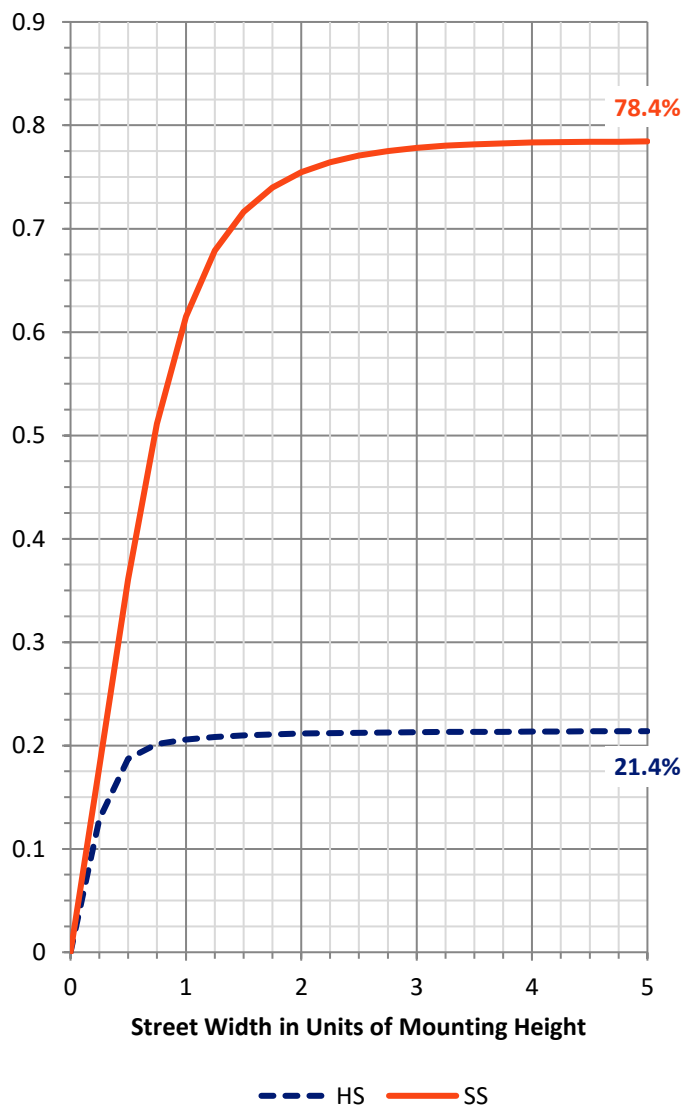
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1258.5	0.0	1258.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	4551.5	0.0	4551.5
	% Fixture	78.3	0.0	78.3
Total	Lumens	5810.0	0.0	5810.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	1.7
10°-20°	303.9	5.2
20°-30°	525.6	9.0
30°-40°	771.9	13.3
40°-50°	1003.4	17.3
50°-60°	1163.3	20.0
60°-70°	1170.8	20.2
70°-80°	713.4	12.3
80°-90°	56.8	1.0
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°	5810.0	100.0
0°-180°	5810.0	100.0

Coefficient of Utilization



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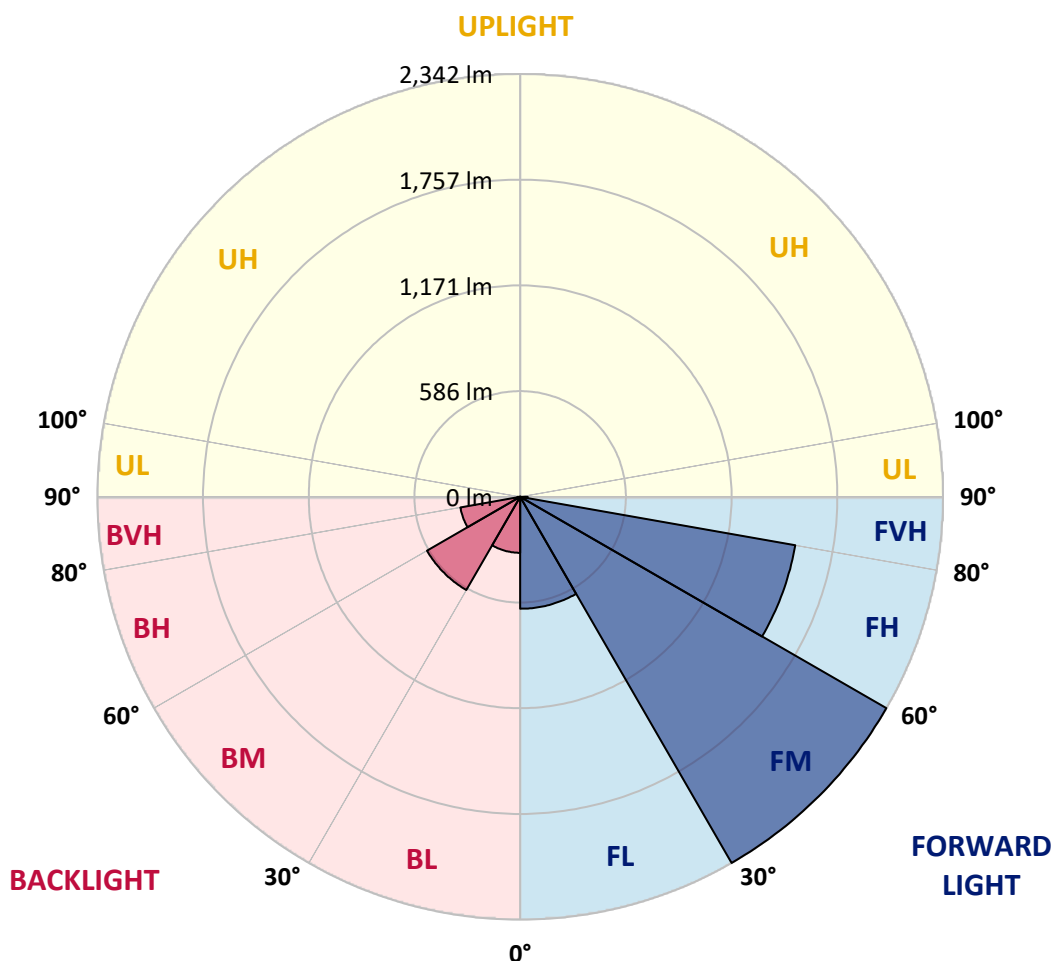
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	620.2	10.7			
FM	(30°-60°)	2342.5	40.3			
FH	(60°-80°)	1547.6	26.6			G1/1800
FVH	(80°-90°)	41.3	0.7			G1/100
BL	(0°-30°)	310.2	5.3	B1/500		
BM	(30°-60°)	596.1	10.3	B1/1000		
BH	(60°-80°)	336.5	5.8	B1/500		G1/500
BVH	(80°-90°)	15.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4
2.5°	1126.4	1126.4	1124.6	1122.8	1115.7	1108.6	1098.0	1089.1	1080.3	1076.7	1062.5
5°	1192.0	1192.0	1190.2	1183.2	1174.3	1161.9	1144.1	1121.1	1105.1	1103.3	1078.5
7.5°	1247.0	1245.2	1243.5	1239.9	1231.0	1215.1	1188.5	1158.3	1131.7	1124.6	1094.5
10°	1300.2	1302.0	1298.5	1289.6	1278.9	1259.4	1232.8	1197.3	1165.4	1154.8	1108.6
12.5°	1357.0	1355.2	1349.9	1339.2	1325.1	1309.1	1280.7	1245.2	1202.7	1192.0	1131.7
15°	1404.9	1406.7	1397.8	1390.7	1376.5	1358.8	1333.9	1298.5	1255.9	1243.5	1165.4
17.5°	1447.5	1447.5	1445.7	1442.1	1431.5	1419.1	1394.2	1369.4	1325.1	1305.5	1216.9
20°	1479.4	1481.2	1484.7	1491.8	1493.6	1482.9	1470.5	1452.8	1410.2	1390.7	1280.7
22.5°	1507.8	1511.3	1525.5	1546.8	1564.5	1564.5	1562.8	1561.0	1518.4	1506.0	1374.7
25°	1514.9	1520.2	1552.1	1598.2	1626.6	1649.7	1681.6	1694.0	1662.1	1640.8	1497.1
27.5°	1525.5	1530.8	1566.3	1621.3	1692.2	1743.7	1800.4	1832.4	1809.3	1788.0	1637.3
30°	1516.6	1523.7	1562.8	1640.8	1734.8	1843.0	1914.0	1961.9	1954.8	1942.4	1782.7
32.5°	1493.6	1500.7	1546.8	1642.6	1786.3	1944.1	2024.0	2098.5	2118.0	2107.3	1935.3
35°	1447.5	1454.5	1511.3	1628.4	1811.1	2020.4	2133.9	2243.9	2288.3	2281.2	2102.0
37.5°	1388.9	1388.9	1456.3	1585.8	1820.0	2078.9	2231.5	2389.4	2476.3	2465.6	2270.5
40°	1291.4	1309.1	1392.5	1539.7	1805.8	2121.5	2325.5	2540.1	2648.3	2643.0	2453.2
42.5°	1193.8	1208.0	1287.8	1459.9	1772.1	2146.3	2403.6	2698.0	2838.1	2834.6	2628.8
45°	1106.9	1117.5	1183.2	1349.9	1701.1	2153.4	2478.1	2866.5	3047.5	3040.4	2808.0
47.5°	995.1	1016.4	1099.8	1247.0	1603.6	2132.2	2547.2	3077.6	3274.5	3267.4	3001.3
50°	753.9	768.1	941.9	1163.6	1477.6	2078.9	2604.0	3285.2	3489.1	3475.0	3176.9
52.5°	684.7	693.6	748.6	1060.8	1360.5	1983.2	2639.5	3533.5	3707.3	3684.3	3357.9
55°	640.4	647.5	679.4	849.7	1257.7	1821.7	2650.1	3767.6	3882.9	3859.9	3524.6
57.5°	601.3	604.9	636.8	723.7	1135.3	1617.7	2612.9	3941.5	4037.3	4012.4	3668.3
60°	560.5	565.9	596.0	659.9	988.0	1429.7	2497.6	4079.8	4165.0	4143.7	3794.2
62.5°	526.8	533.9	553.4	608.4	881.6	1270.1	2245.7	4111.8	4257.2	4241.3	3911.3
65°	486.0	491.4	516.2	562.3	771.6	1170.7	1990.2	4017.7	4227.1	4246.6	3976.9
67.5°	438.1	443.5	464.7	500.2	647.5	1066.1	1766.7	3884.7	4134.8	4161.4	3929.1
70°	379.6	383.1	404.4	438.1	537.5	929.5	1532.6	3689.6	3911.3	3930.8	3739.3
72.5°	315.7	315.7	331.7	370.7	441.7	769.8	1229.3	3278.1	3638.1	3686.0	3418.2
75°	133.0	140.1	168.5	204.0	282.0	562.3	840.8	2524.2	3281.6	3322.4	3019.1
77.5°	26.6	28.4	31.9	47.9	74.5	244.8	260.8	1101.6	2277.6	2304.2	2204.9
80°	21.3	21.3	23.1	35.5	49.7	113.5	85.1	360.1	709.5	913.5	1177.8
82.5°	7.1	8.9	12.4	19.5	24.8	24.8	28.4	180.9	351.2	377.8	475.4
85°	3.5	3.5	5.3	7.1	7.1	7.1	7.1	31.9	60.3	72.7	101.1
87.5°	1.8	0.0	0.0	0.0	0.0	0.0	1.8	3.5	5.3	5.3	7.1
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°	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4
2.5°	1055.4	1050.1	1037.7	1028.8	1016.4	1005.8	993.4	986.3	982.7	980.9	977.4
5°	1064.3	1050.1	1025.3	998.7	975.6	957.9	933.0	920.6	913.5	910.0	908.2
7.5°	1074.9	1057.2	1014.6	973.8	933.0	902.9	872.7	853.2	844.3	842.6	840.8
10°	1082.0	1053.7	996.9	952.6	899.3	851.4	816.0	792.9	780.5	778.7	776.9
12.5°	1096.2	1059.0	982.7	918.8	863.9	801.8	764.5	737.9	725.5	714.9	714.9
15°	1119.3	1071.4	975.6	890.5	817.7	757.4	709.5	681.2	672.3	658.1	654.5
17.5°	1158.3	1094.5	970.3	862.1	775.2	714.9	658.1	627.9	622.6	610.2	603.1
20°	1206.2	1128.2	973.8	835.5	730.8	661.6	604.9	574.7	557.0	546.3	542.8
22.5°	1282.5	1177.8	986.3	816.0	691.8	613.7	553.4	505.5	466.5	452.3	452.3
25°	1390.7	1263.0	1007.5	800.0	652.8	567.6	493.1	411.5	360.1	340.6	335.3
27.5°	1513.1	1371.2	1057.2	785.8	620.8	516.2	406.2	315.7	260.8	243.0	243.0
30°	1653.2	1484.7	1117.5	776.9	581.8	438.1	306.9	230.6	186.3	166.7	165.0
32.5°	1791.6	1601.8	1188.5	769.8	541.0	342.4	221.7	168.5	131.3	117.1	118.8
35°	1929.9	1717.1	1248.8	769.8	473.6	246.6	157.9	117.1	94.0	86.9	86.9
37.5°	2086.0	1846.6	1296.7	759.2	372.5	175.6	108.2	85.1	78.0	74.5	74.5
40°	2247.5	1967.2	1328.6	736.1	266.1	120.6	76.3	74.5	71.0	65.6	63.9
42.5°	2398.2	2105.5	1348.1	691.8	173.8	79.8	67.4	69.2	67.4	58.5	56.8
45°	2557.9	2217.3	1358.8	603.1	115.3	65.6	60.3	63.9	65.6	58.5	56.8
47.5°	2717.5	2339.7	1365.9	470.1	76.3	63.9	56.8	62.1	63.9	56.8	55.0
50°	2886.0	2451.4	1355.2	301.6	67.4	60.3	55.0	56.8	60.3	56.8	55.0
52.5°	3033.3	2552.6	1305.5	168.5	65.6	58.5	51.4	53.2	58.5	55.0	55.0
55°	3184.0	2651.9	1213.3	99.3	63.9	55.0	51.4	53.2	55.0	51.4	53.2
57.5°	3320.6	2747.7	1074.9	81.6	63.9	53.2	53.2	49.7	49.7	46.1	46.1
60°	3425.3	2834.6	910.0	76.3	60.3	55.0	49.7	46.1	42.6	39.0	39.0
62.5°	3508.7	2909.1	675.8	71.0	58.5	53.2	46.1	40.8	35.5	31.9	31.9
65°	3554.8	2925.1	477.2	63.9	55.0	51.4	42.6	35.5	28.4	26.6	26.6
67.5°	3501.6	2841.7	290.9	60.3	51.4	49.7	40.8	31.9	24.8	23.1	23.1
70°	3297.6	2618.2	163.2	55.0	46.1	44.3	37.3	28.4	23.1	19.5	19.5
72.5°	2960.5	2290.0	81.6	46.1	39.0	39.0	33.7	24.8	21.3	17.7	17.7
75°	2501.1	1878.5	58.5	33.7	31.9	31.9	28.4	23.1	19.5	16.0	16.0
77.5°	1832.4	1238.1	47.9	28.4	23.1	23.1	24.8	21.3	17.7	14.2	14.2
80°	949.0	613.7	40.8	21.3	19.5	17.7	17.7	17.7	14.2	12.4	12.4
82.5°	420.4	235.9	26.6	16.0	16.0	14.2	14.2	14.2	12.4	10.6	10.6
85°	81.6	44.3	14.2	12.4	10.6	10.6	10.6	8.9	8.9	8.9	8.9
87.5°	7.1	7.1	7.1	7.1	7.1	5.3	5.3	5.3	5.3	5.3	5.3
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)