

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: P507705

Luminaire Tested: **VERD-S-CA1-70-760-U-T2**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507705
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-CA1-70-760-U-T2
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5700K, 1330mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9854 lumens
Efficiency: N/A
Efficacy: 134.1 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

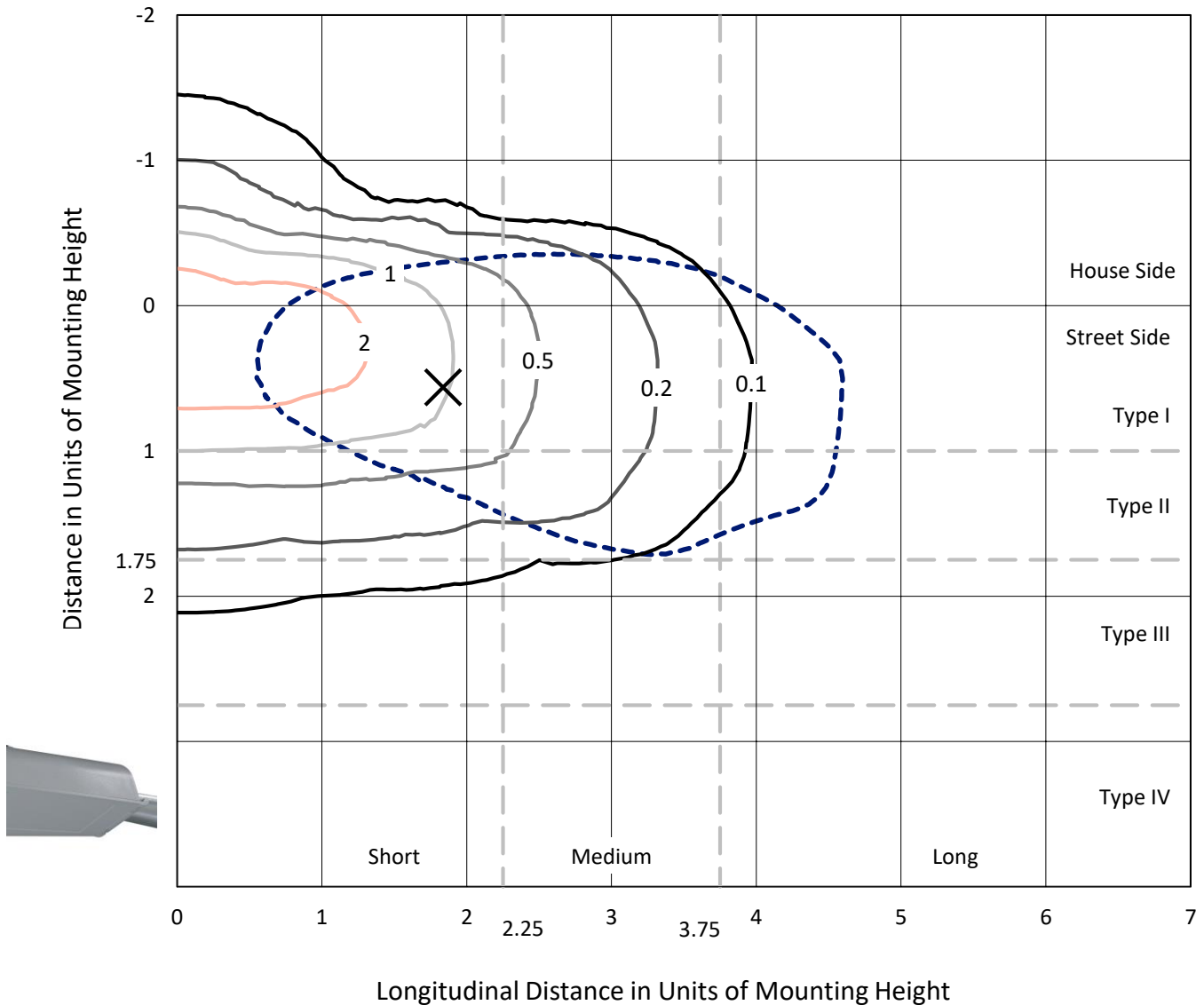
Input Watts (W): 73.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: VERD-S-CA1-70-760-U-T2

Iso-Footcandle Lines of Horizontal Illumination

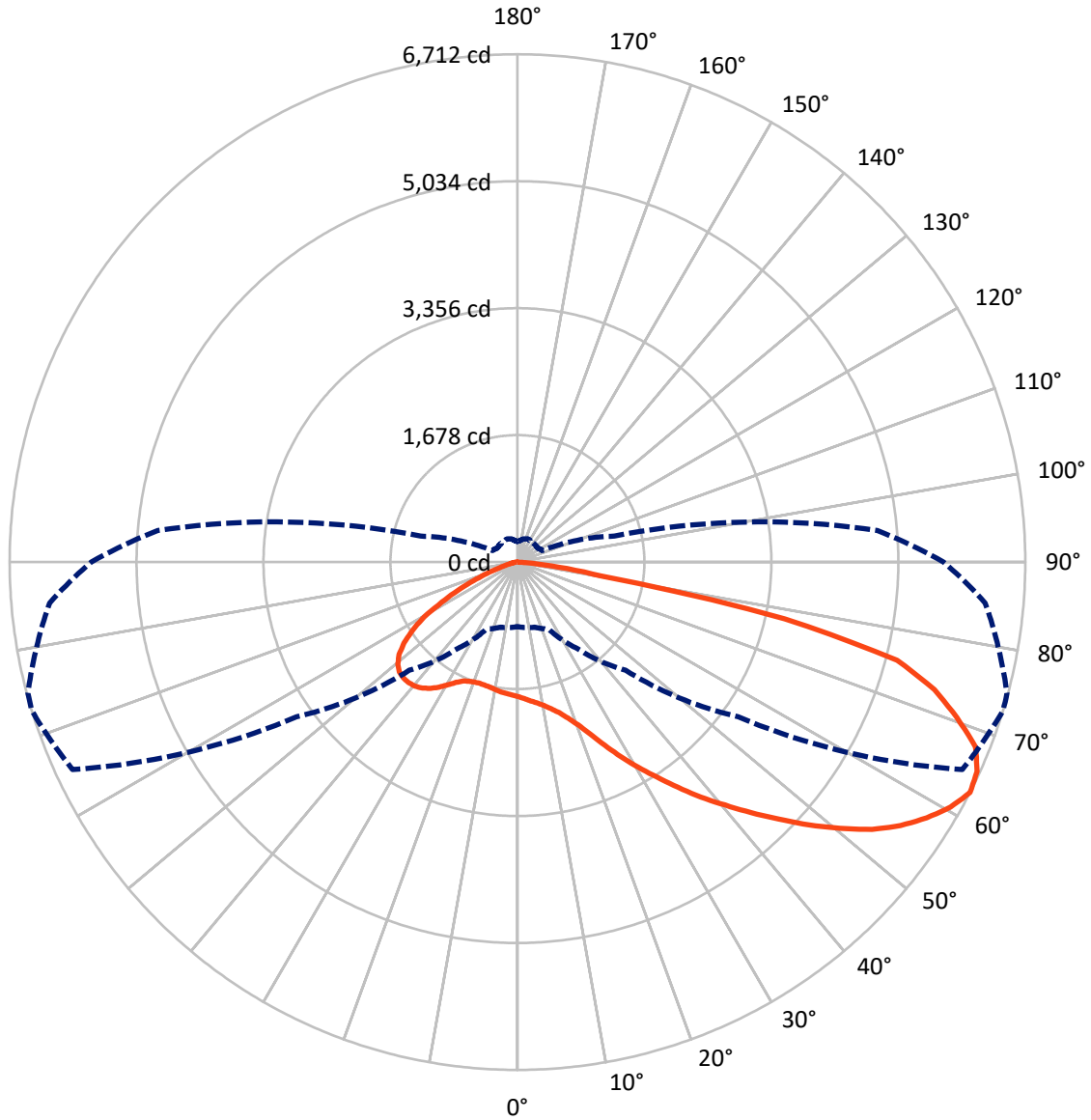
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Short - N/A

REPORT NUMBER: P507705
CATALOG NUMBER: VERD-S-CA1-70-760-U-T2

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: VERD-S-CA1-70-760-U-T2

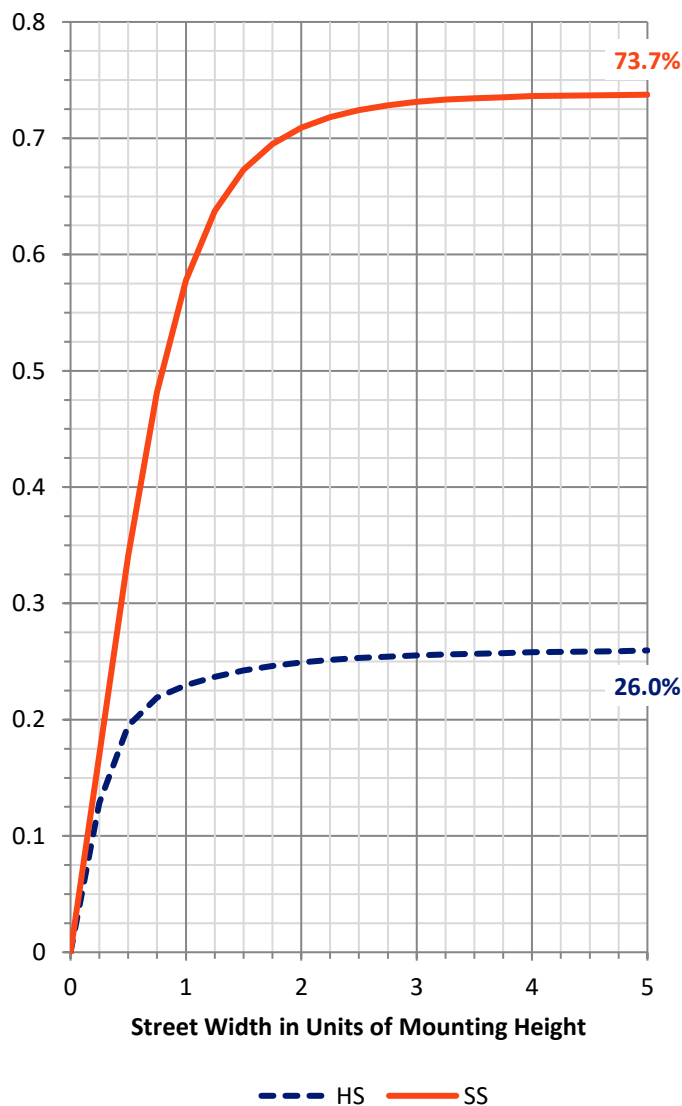
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2595.7	0.0	2595.7
	% Fixture	26.3	0.0	26.3
Street Side	Lumens	7258.3	0.0	7258.3
	% Fixture	73.7	0.0	73.7
Total	Lumens	9854.0	0.0	9854.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.0	1.7
10°-20°	525.8	5.3
20°-30°	910.2	9.2
30°-40°	1318.1	13.4
40°-50°	1688.3	17.1
50°-60°	1954.6	19.8
60°-70°	1968.3	20.0
70°-80°	1203.4	12.2
80°-90°	113.3	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°	9854.0	100.0
0°-180°	9854.0	100.0

Coefficient of Utilization



REPORT NUMBER: P507705

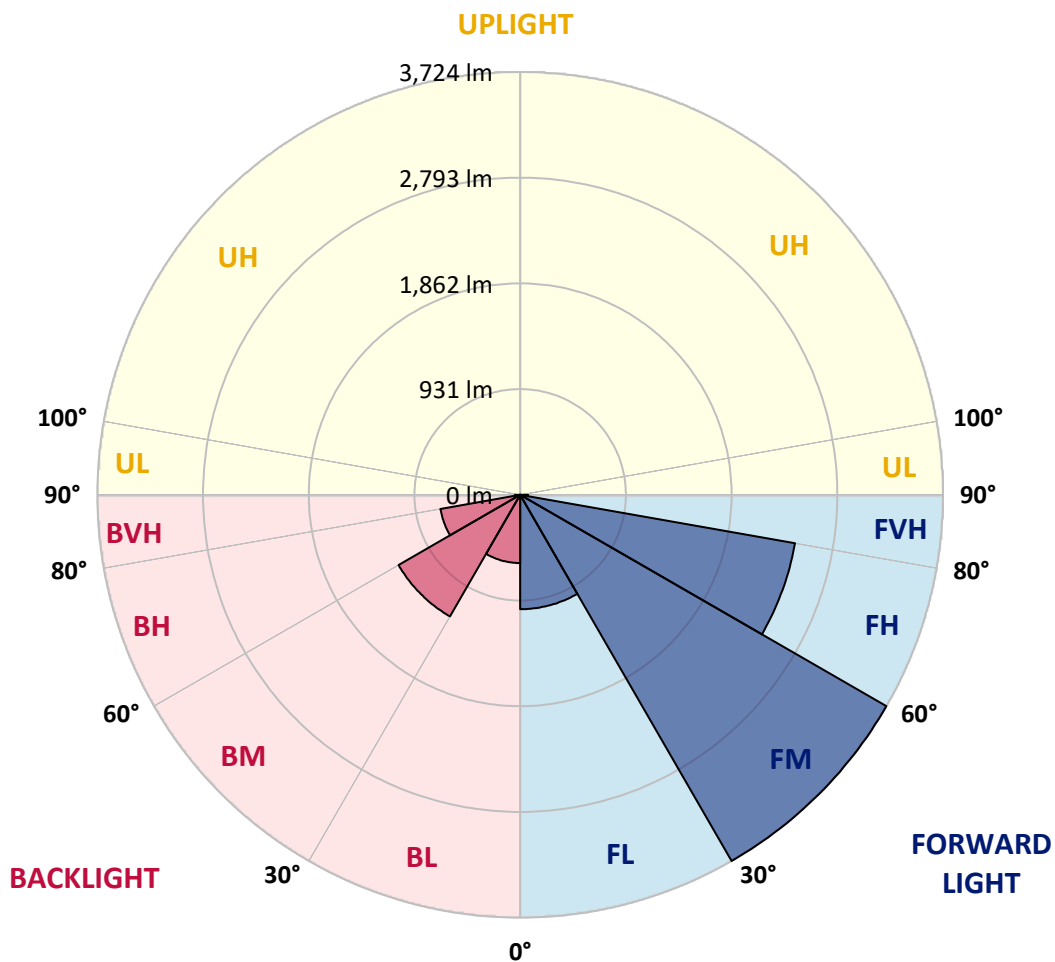
CATALOG NUMBER: VERD-S-CA1-70-760-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1007.1	10.2			
FM (30°-60°)	3724.5	37.8			
FH (60°-80°)	2458.2	24.9			G2/5000
FVH (80°-90°)	68.5	0.7			G1/100
BL (0°-30°)	600.8	6.1	B2/1000		
BM (30°-60°)	1236.5	12.5	B2/2500		
BH (60°-80°)	713.5	7.2	B2/1000		G2/1000
BVH (80°-90°)	44.9	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





REPORT NUMBER: P507705
 CATALOG NUMBER: VERD-S-CA1-70-760-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1779.9	1779.9	1779.9	1779.9	1779.9	1779.9	1779.9	1779.9	1779.9	1779.9	1779.9
2.5°	1871.5	1868.8	1863.2	1860.4	1854.9	1841.0	1832.7	1818.8	1807.7	1804.9	1788.2
5°	1963.2	1966.0	1963.2	1954.9	1943.7	1924.3	1896.5	1860.4	1843.8	1838.2	1810.5
7.5°	2049.3	2049.3	2046.5	2035.4	2024.3	1999.3	1960.4	1918.8	1879.9	1868.8	1832.7
10°	2132.6	2132.6	2124.2	2113.1	2096.5	2065.9	2027.0	1974.3	1927.1	1910.4	1849.3
12.5°	2221.4	2218.6	2207.5	2190.9	2168.7	2143.7	2102.0	2043.7	1991.0	1971.5	1885.4
15°	2290.8	2290.8	2282.5	2271.4	2252.0	2221.4	2182.5	2132.6	2063.1	2046.5	1935.4
17.5°	2351.9	2354.7	2349.2	2349.2	2332.5	2310.3	2277.0	2235.3	2168.7	2143.7	2010.4
20°	2401.9	2399.1	2410.2	2418.6	2424.1	2410.2	2390.8	2363.0	2296.4	2271.4	2107.6
22.5°	2424.1	2429.7	2463.0	2504.7	2529.6	2532.4	2529.6	2526.9	2468.6	2435.2	2240.9
25°	2435.2	2443.6	2493.5	2565.7	2621.3	2662.9	2707.4	2735.1	2682.4	2657.4	2440.8
27.5°	2446.3	2454.7	2513.0	2601.8	2707.4	2807.3	2896.2	2948.9	2910.1	2879.5	2646.3
30°	2426.9	2435.2	2501.9	2626.8	2776.8	2951.7	3076.7	3151.6	3146.1	3126.7	2882.3
32.5°	2385.3	2393.6	2468.6	2624.1	2849.0	3098.9	3237.7	3362.7	3387.7	3368.2	3118.3
35°	2310.3	2321.4	2407.5	2590.7	2882.3	3221.1	3407.1	3590.4	3654.2	3657.0	3376.6
37.5°	2207.5	2213.1	2318.6	2526.9	2893.4	3307.1	3548.7	3809.7	3940.3	3943.0	3640.4
40°	2068.7	2082.6	2213.1	2446.3	2868.4	3368.2	3690.3	4048.5	4220.7	4201.3	3926.4
42.5°	1910.4	1921.5	2049.3	2318.6	2810.1	3404.3	3820.8	4298.5	4526.2	4515.0	4195.7
45°	1768.8	1785.5	1882.7	2140.9	2699.0	3412.7	3934.7	4548.4	4842.7	4828.8	4470.6
47.5°	1580.0	1621.6	1752.1	1982.6	2532.4	3376.6	4037.4	4887.1	5192.6	5173.1	4759.4
50°	1216.2	1230.1	1505.0	1849.3	2343.6	3287.7	4126.3	5200.9	5531.3	5517.5	5062.1
52.5°	1096.8	1107.9	1196.8	1696.6	2154.8	3129.4	4179.1	5603.5	5870.1	5831.2	5334.2
55°	1030.2	1041.3	1091.3	1355.1	1991.0	2890.6	4190.2	5945.1	6145.0	6108.9	5589.7
57.5°	969.1	977.4	1024.6	1160.7	1802.1	2560.2	4131.8	6220.0	6378.3	6342.2	5820.1
60°	905.2	913.6	963.5	1055.2	1568.9	2257.5	3940.3	6433.8	6575.4	6539.3	6028.4
62.5°	852.5	866.4	891.3	977.4	1402.3	2021.5	3565.4	6486.6	6711.5	6697.6	6206.1
65°	788.6	794.2	833.0	902.5	1238.4	1857.7	3162.8	6333.8	6675.4	6700.4	6311.6
67.5°	716.4	719.2	755.3	805.3	1035.7	1696.6	2804.5	6128.4	6531.0	6572.6	6233.9
70°	619.2	622.0	655.3	708.1	858.0	1471.7	2435.2	5825.7	6161.7	6200.5	5934.0
72.5°	516.5	516.5	544.2	602.6	708.1	1219.0	1949.3	5162.0	5764.6	5828.5	5445.3
75°	224.9	233.2	280.5	336.0	458.2	896.9	1330.1	3995.8	5181.5	5225.9	4773.3
77.5°	61.1	61.1	72.2	94.4	133.3	399.9	422.1	1757.7	3609.8	3723.7	3529.3
80°	50.0	50.0	55.5	72.2	91.6	197.2	141.6	566.5	1116.3	1471.7	1829.9
82.5°	27.8	27.8	33.3	41.7	50.0	50.0	50.0	288.8	549.8	585.9	766.4
85°	13.9	16.7	16.7	19.4	19.4	16.7	16.7	58.3	105.5	119.4	183.3
87.5°	5.6	5.6	5.6	5.6	2.8	2.8	5.6	8.3	8.3	11.1	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



REPORT NUMBER: P507705
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1779.9	1779.9	1779.9	1779.9	1779.9	1779.9	1779.9	1779.9	1779.9	1779.9	1779.9
2.5°	1782.7	1774.4	1763.3	1754.9	1738.3	1721.6	1710.5	1702.2	1699.4	1696.6	1696.6
5°	1793.8	1779.9	1749.4	1718.8	1693.8	1671.6	1652.2	1638.3	1632.7	1630.0	1630.0
7.5°	1810.5	1791.0	1741.0	1696.6	1652.2	1618.9	1588.3	1568.9	1557.8	1560.6	1568.9
10°	1818.8	1788.2	1721.6	1677.2	1618.9	1566.1	1530.0	1507.8	1499.5	1499.5	1496.7
12.5°	1841.0	1796.6	1707.7	1638.3	1588.3	1516.1	1474.5	1455.0	1443.9	1427.3	1421.7
15°	1874.3	1818.8	1702.2	1610.5	1532.8	1468.9	1413.4	1385.6	1377.3	1355.1	1355.1
17.5°	1935.4	1857.7	1702.2	1580.0	1480.0	1418.9	1346.7	1307.9	1302.3	1288.4	1285.6
20°	2007.6	1910.4	1716.0	1549.4	1424.5	1344.0	1263.4	1224.6	1210.7	1196.8	1196.8
22.5°	2121.5	1991.0	1741.0	1527.2	1366.2	1266.2	1177.4	1121.8	1099.6	1096.8	1091.3
25°	2296.4	2118.7	1779.9	1505.0	1307.9	1180.1	1091.3	1019.1	983.0	977.4	974.6
27.5°	2488.0	2293.6	1857.7	1485.6	1244.0	1082.9	977.4	899.7	855.2	849.7	846.9
30°	2693.5	2474.1	1960.4	1468.9	1163.5	971.9	852.5	777.5	735.8	724.7	727.5
32.5°	2918.4	2668.5	2071.5	1455.0	1077.4	827.5	716.4	666.4	622.0	602.6	605.3
35°	3137.8	2840.6	2168.7	1443.9	963.5	697.0	610.9	558.1	513.7	488.7	488.7
37.5°	3384.9	3043.4	2249.2	1421.7	841.4	608.1	524.8	472.1	438.7	416.5	416.5
40°	3626.5	3246.1	2313.1	1380.1	705.3	535.9	433.2	402.6	380.4	366.5	361.0
42.5°	3862.5	3448.8	2354.7	1310.6	591.5	449.8	361.0	358.2	361.0	347.1	344.3
45°	4106.9	3648.7	2385.3	1199.6	510.9	372.1	322.1	341.5	361.0	355.4	355.4
47.5°	4373.4	3843.1	2410.2	1019.1	433.2	327.7	319.3	338.8	363.8	366.5	366.5
50°	4628.9	4040.2	2401.9	788.6	380.4	324.9	322.1	327.7	361.0	369.3	363.8
52.5°	4867.7	4209.6	2335.3	574.8	355.4	330.4	330.4	324.9	352.7	358.2	361.0
55°	5109.3	4367.9	2185.3	455.4	341.5	330.4	344.3	330.4	338.8	341.5	347.1
57.5°	5328.6	4528.9	1963.2	408.2	338.8	330.4	344.3	336.0	336.0	324.9	322.1
60°	5498.0	4662.2	1693.8	388.7	330.4	333.2	338.8	338.8	330.4	305.4	297.1
62.5°	5631.3	4773.3	1324.5	363.8	324.9	327.7	324.9	336.0	316.6	280.5	272.1
65°	5706.3	4792.7	1013.5	336.0	311.0	322.1	313.8	311.0	294.3	255.5	238.8
67.5°	5623.0	4656.7	708.1	308.2	294.3	313.8	299.9	288.8	269.3	233.2	211.0
70°	5300.9	4262.4	466.5	272.1	272.1	294.3	283.2	266.6	241.6	213.8	188.8
72.5°	4695.5	3673.7	280.5	224.9	241.6	269.3	263.8	241.6	169.4	130.5	113.8
75°	3970.8	3018.4	180.5	169.4	197.2	241.6	244.4	216.6	144.4	116.6	116.6
77.5°	2885.1	1982.6	105.5	94.4	130.5	194.4	208.3	158.3	155.5	216.6	158.3
80°	1480.0	960.8	80.5	58.3	69.4	144.4	116.6	119.4	236.0	174.9	111.1
82.5°	641.4	380.4	50.0	41.7	44.4	72.2	75.0	197.2	183.3	102.7	69.4
85°	136.1	72.2	27.8	27.8	27.8	33.3	41.7	213.8	113.8	52.8	22.2
87.5°	13.9	13.9	13.9	13.9	13.9	13.9	11.1	11.1	11.1	8.3	8.3
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)