

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: P507577

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

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507577
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-CA1-50-727-U-T2
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 940mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6296 lumens
Efficiency: N/A
Efficacy: 117.7 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

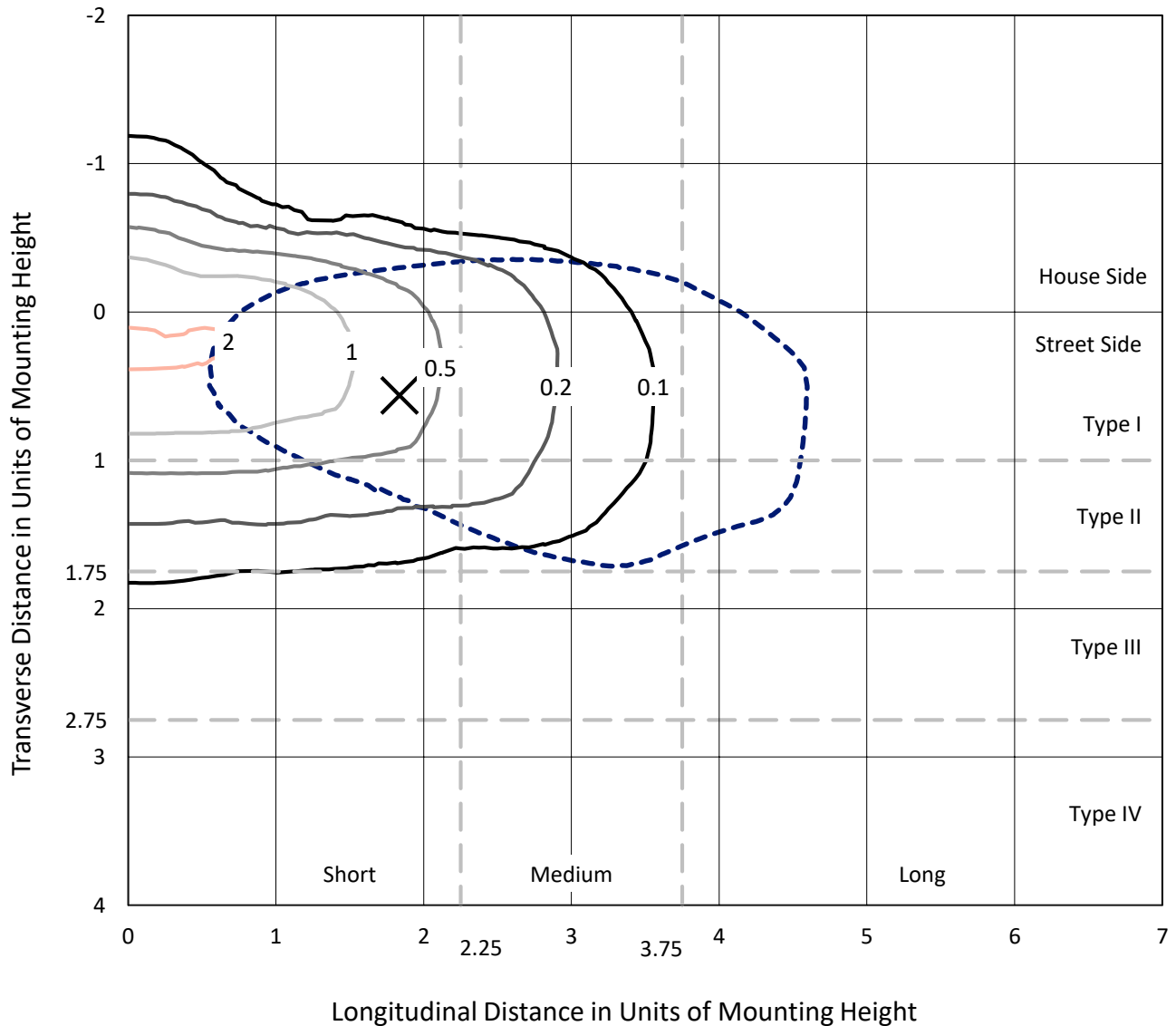


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Iso-Footcandle Lines of Horizontal Illumination

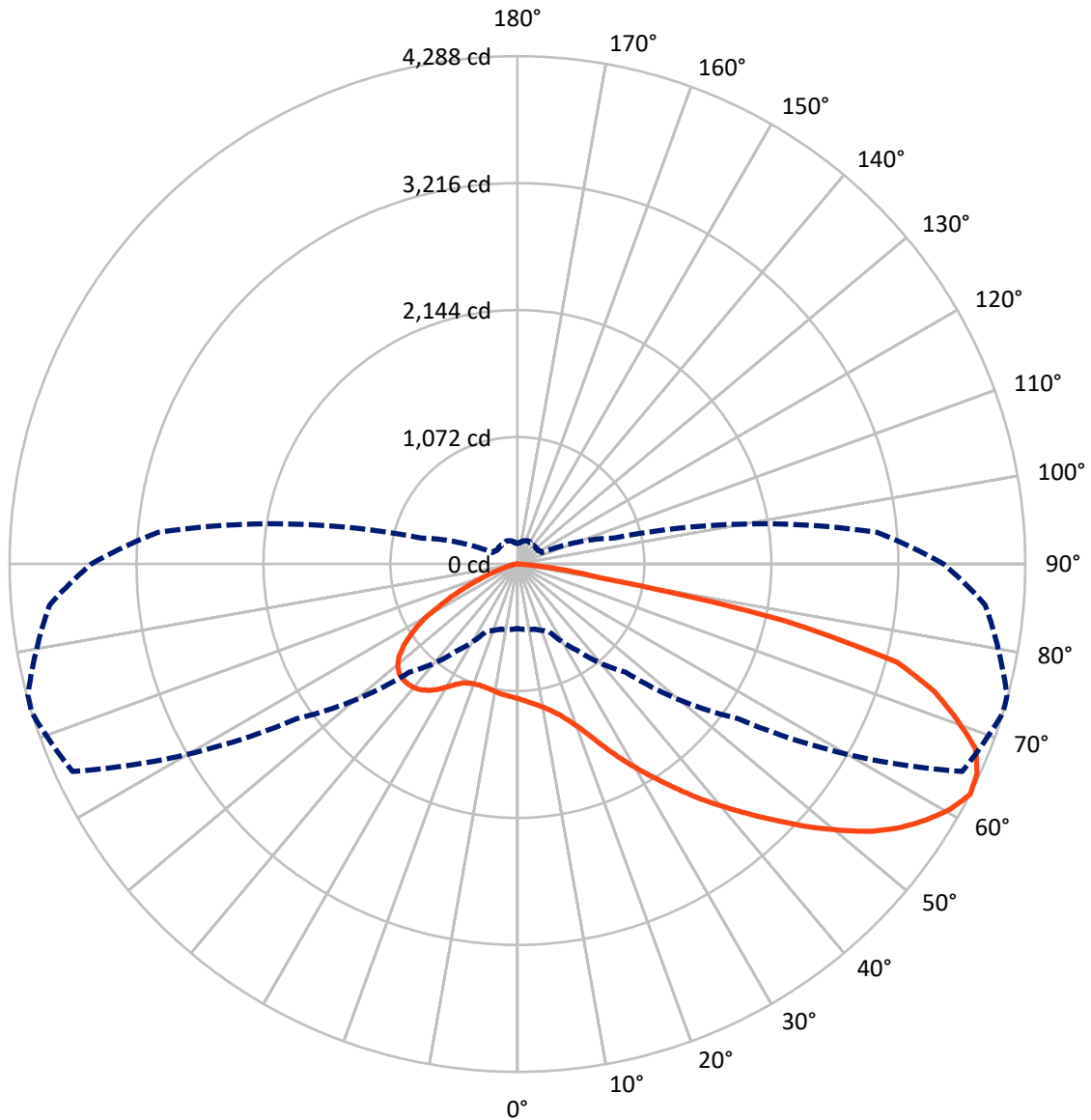
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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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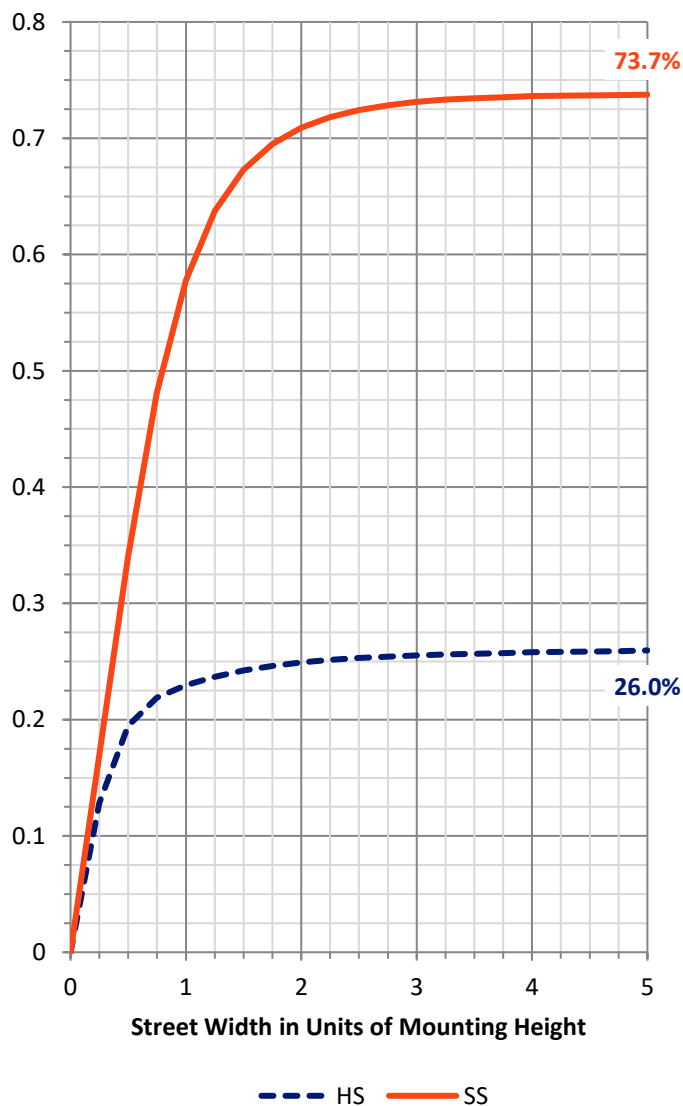
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1658.5	0.0	1658.5
	% Fixture	26.3	0.0	26.3
Street Side	Lumens	4637.5	0.0	4637.5
	% Fixture	73.7	0.0	73.7
Total	Lumens	6296.0	0.0	6296.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	1.7
10°-20°	335.9	5.3
20°-30°	581.5	9.2
30°-40°	842.2	13.4
40°-50°	1078.7	17.1
50°-60°	1248.9	19.8
60°-70°	1257.6	20.0
70°-80°	768.9	12.2
80°-90°	72.4	1.1
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°	6296.0	100.0
0°-180°	6296.0	100.0

Coefficient of Utilization



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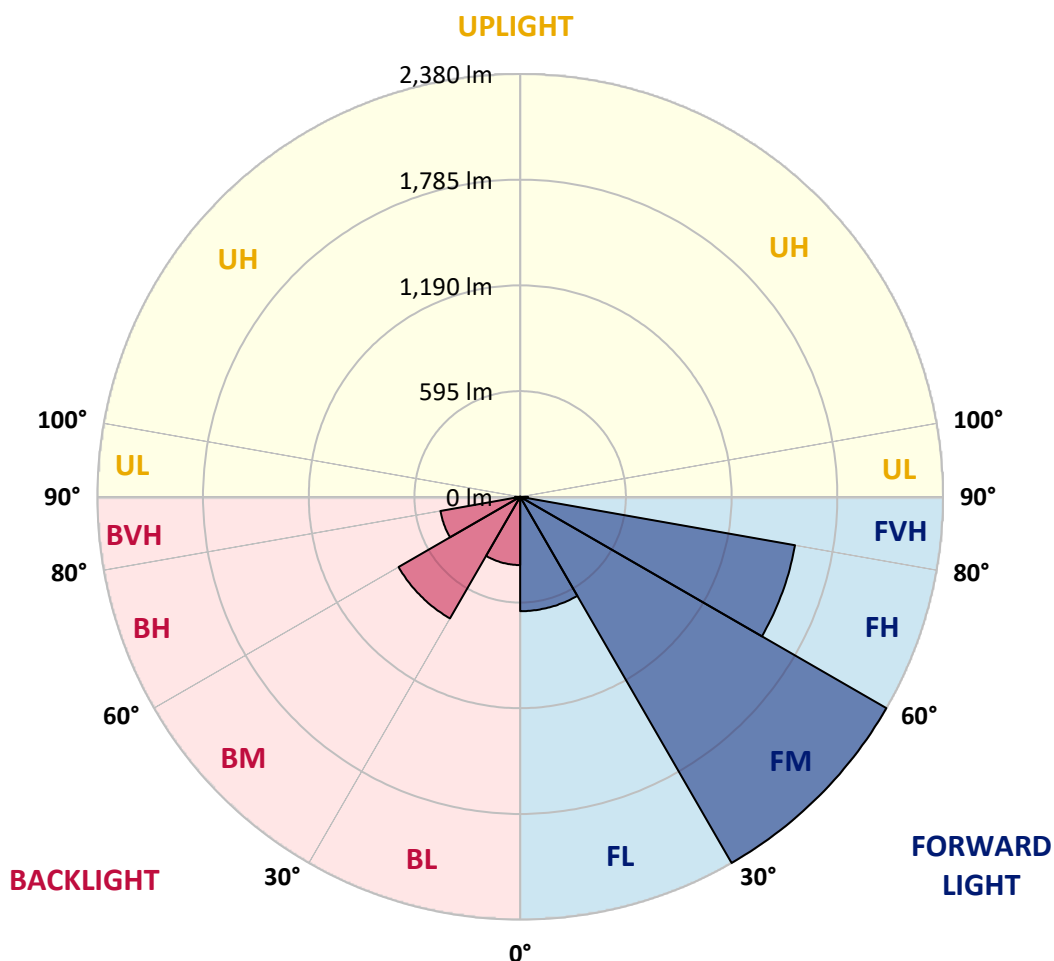
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	643.5	10.2			
FM	(30°-60°)	2379.7	37.8			
FH	(60°-80°)	1570.6	24.9			G1/1800
FVH	(80°-90°)	43.7	0.7			G1/100
BL	(0°-30°)	383.9	6.1	B1/500		
BM	(30°-60°)	790.0	12.5	B1/1000		
BH	(60°-80°)	455.9	7.2	B1/500		G1/500
BVH	(80°-90°)	28.7	0.5			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°	1137.2	1137.2	1137.2	1137.2	1137.2	1137.2	1137.2	1137.2	1137.2	1137.2	1137.2
2.5°	1195.8	1194.0	1190.5	1188.7	1185.1	1176.3	1170.9	1162.1	1155.0	1153.2	1142.6
5°	1254.3	1256.1	1254.3	1249.0	1241.9	1229.5	1211.8	1188.7	1178.0	1174.5	1156.8
7.5°	1309.3	1309.3	1307.6	1300.5	1293.4	1277.4	1252.6	1225.9	1201.1	1194.0	1170.9
10°	1362.6	1362.6	1357.2	1350.1	1339.5	1320.0	1295.1	1261.4	1231.3	1220.6	1181.6
12.5°	1419.3	1417.6	1410.5	1399.8	1385.6	1369.7	1343.0	1305.8	1272.1	1259.7	1204.7
15°	1463.7	1463.7	1458.4	1451.3	1438.8	1419.3	1394.5	1362.6	1318.2	1307.6	1236.6
17.5°	1502.7	1504.5	1500.9	1500.9	1490.3	1476.1	1454.8	1428.2	1385.6	1369.7	1284.5
20°	1534.7	1532.9	1540.0	1545.3	1548.8	1540.0	1527.6	1509.8	1467.2	1451.3	1346.6
22.5°	1548.8	1552.4	1573.7	1600.3	1616.3	1618.0	1616.3	1614.5	1577.2	1555.9	1431.7
25°	1555.9	1561.3	1593.2	1639.3	1674.8	1701.4	1729.8	1747.6	1713.8	1697.9	1559.5
27.5°	1563.0	1568.4	1605.6	1662.4	1729.8	1793.7	1850.5	1884.2	1859.3	1839.8	1690.8
30°	1550.6	1555.9	1598.5	1678.4	1774.2	1885.9	1965.8	2013.7	2010.1	1997.7	1841.6
32.5°	1524.0	1529.3	1577.2	1676.6	1820.3	1980.0	2068.7	2148.5	2164.5	2152.1	1992.4
35°	1476.1	1483.2	1538.2	1655.3	1841.6	2058.0	2176.9	2294.0	2334.8	2336.6	2157.4
37.5°	1410.5	1414.0	1481.4	1614.5	1848.7	2113.0	2267.4	2434.2	2517.5	2519.3	2325.9
40°	1321.8	1330.6	1414.0	1563.0	1832.7	2152.1	2357.9	2586.7	2696.7	2684.3	2508.7
42.5°	1220.6	1227.7	1309.3	1481.4	1795.5	2175.1	2441.2	2746.4	2891.9	2884.8	2680.8
45°	1130.1	1140.8	1202.9	1367.9	1724.5	2180.4	2514.0	2906.1	3094.1	3085.3	2856.4
47.5°	1009.5	1036.1	1119.5	1266.8	1618.0	2157.4	2579.6	3122.5	3317.7	3305.3	3040.9
50°	777.1	786.0	961.6	1181.6	1497.4	2100.6	2636.4	3323.0	3534.1	3525.3	3234.3
52.5°	700.8	707.9	764.7	1084.0	1376.8	1999.5	2670.1	3580.3	3750.6	3725.7	3408.2
55°	658.2	665.3	697.2	865.8	1272.1	1846.9	2677.2	3798.5	3926.2	3903.2	3571.4
57.5°	619.2	624.5	654.7	741.6	1151.4	1635.8	2640.0	3974.1	4075.3	4052.2	3718.6
60°	578.4	583.7	615.6	674.2	1002.4	1442.4	2517.5	4110.7	4201.2	4178.2	3851.7
62.5°	544.7	553.5	569.5	624.5	896.0	1291.6	2278.0	4144.4	4288.2	4279.3	3965.3
65°	503.9	507.4	532.2	576.6	791.3	1186.9	2020.8	4046.9	4265.1	4281.1	4032.7
67.5°	457.7	459.5	482.6	514.5	661.8	1084.0	1791.9	3915.6	4172.8	4199.4	3983.0
70°	395.6	397.4	418.7	452.4	548.2	940.3	1555.9	3722.2	3936.9	3961.7	3791.4
72.5°	330.0	330.0	347.7	385.0	452.4	778.9	1245.5	3298.2	3683.2	3724.0	3479.1
75°	143.7	149.0	179.2	214.7	292.7	573.1	849.8	2553.0	3310.6	3339.0	3049.8
77.5°	39.0	39.0	46.1	60.3	85.2	255.5	269.7	1123.0	2306.4	2379.2	2255.0
80°	31.9	31.9	35.5	46.1	58.5	126.0	90.5	361.9	713.2	940.3	1169.2
82.5°	17.7	17.7	21.3	26.6	31.9	31.9	31.9	184.5	351.3	374.3	489.7
85°	8.9	10.6	10.6	12.4	12.4	10.6	10.6	37.3	67.4	76.3	117.1
87.5°	3.5	3.5	3.5	3.5	1.8	1.8	3.5	5.3	5.3	7.1	8.9
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°	1137.2	1137.2	1137.2	1137.2	1137.2	1137.2	1137.2	1137.2	1137.2	1137.2	1137.2
2.5°	1139.0	1133.7	1126.6	1121.3	1110.6	1100.0	1092.9	1087.6	1085.8	1084.0	1084.0
5°	1146.1	1137.2	1117.7	1098.2	1082.2	1068.0	1055.6	1046.8	1043.2	1041.4	1041.4
7.5°	1156.8	1144.3	1112.4	1084.0	1055.6	1034.3	1014.8	1002.4	995.3	997.1	1002.4
10°	1162.1	1142.6	1100.0	1071.6	1034.3	1000.6	977.6	963.4	958.0	958.0	956.3
12.5°	1176.3	1147.9	1091.1	1046.8	1014.8	968.7	942.1	929.7	922.6	911.9	908.4
15°	1197.6	1162.1	1087.6	1029.0	979.3	938.5	903.0	885.3	880.0	865.8	865.8
17.5°	1236.6	1186.9	1087.6	1009.5	945.6	906.6	860.5	835.6	832.1	823.2	821.4
20°	1282.7	1220.6	1096.4	990.0	910.1	858.7	807.2	782.4	773.5	764.7	764.7
22.5°	1355.5	1272.1	1112.4	975.8	872.9	809.0	752.2	716.8	702.6	700.8	697.2
25°	1467.2	1353.7	1137.2	961.6	835.6	754.0	697.2	651.1	628.1	624.5	622.7
27.5°	1589.7	1465.5	1186.9	949.2	794.8	691.9	624.5	574.8	546.4	542.9	541.1
30°	1720.9	1580.8	1252.6	938.5	743.4	621.0	544.7	496.8	470.2	463.1	464.8
32.5°	1864.6	1705.0	1323.5	929.7	688.4	528.7	457.7	425.8	397.4	385.0	386.8
35°	2004.8	1815.0	1385.6	922.6	615.6	445.3	390.3	356.6	328.2	312.3	312.3
37.5°	2162.7	1944.5	1437.1	908.4	537.6	388.5	335.3	301.6	280.3	266.1	266.1
40°	2317.1	2074.0	1477.9	881.8	450.6	342.4	276.8	257.3	243.1	234.2	230.6
42.5°	2467.9	2203.5	1504.5	837.4	377.9	287.4	230.6	228.9	230.6	221.8	220.0
45°	2624.0	2331.3	1524.0	766.4	326.4	237.7	205.8	218.2	230.6	227.1	227.1
47.5°	2794.3	2455.4	1540.0	651.1	276.8	209.4	204.0	216.4	232.4	234.2	234.2
50°	2957.5	2581.4	1534.7	503.9	243.1	207.6	205.8	209.4	230.6	236.0	232.4
52.5°	3110.1	2689.6	1492.1	367.3	227.1	211.1	211.1	207.6	225.3	228.9	230.6
55°	3264.5	2790.8	1396.3	291.0	218.2	211.1	220.0	211.1	216.4	218.2	221.8
57.5°	3404.6	2893.7	1254.3	260.8	216.4	211.1	220.0	214.7	214.7	207.6	205.8
60°	3512.8	2978.8	1082.2	248.4	211.1	212.9	216.4	216.4	211.1	195.2	189.8
62.5°	3598.0	3049.8	846.3	232.4	207.6	209.4	207.6	214.7	202.3	179.2	173.9
65°	3645.9	3062.2	647.6	214.7	198.7	205.8	200.5	198.7	188.1	163.2	152.6
67.5°	3592.7	2975.3	452.4	196.9	188.1	200.5	191.6	184.5	172.1	149.0	134.8
70°	3386.9	2723.3	298.1	173.9	173.9	188.1	181.0	170.3	154.4	136.6	120.6
72.5°	3000.1	2347.2	179.2	143.7	154.4	172.1	168.5	154.4	108.2	83.4	72.7
75°	2537.1	1928.5	115.3	108.2	126.0	154.4	156.1	138.4	92.3	74.5	74.5
77.5°	1843.4	1266.8	67.4	60.3	83.4	124.2	133.1	101.1	99.4	138.4	101.1
80°	945.6	613.9	51.5	37.3	44.4	92.3	74.5	76.3	150.8	111.8	71.0
82.5°	409.8	243.1	31.9	26.6	28.4	46.1	47.9	126.0	117.1	65.6	44.4
85°	86.9	46.1	17.7	17.7	17.7	21.3	26.6	136.6	72.7	33.7	14.2
87.5°	8.9	8.9	8.9	8.9	8.9	8.9	7.1	7.1	7.1	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)