

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: P507749

Luminaire Tested: **VERD-S-CA1-80-750-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-80-750-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1500mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10953 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type IV - 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

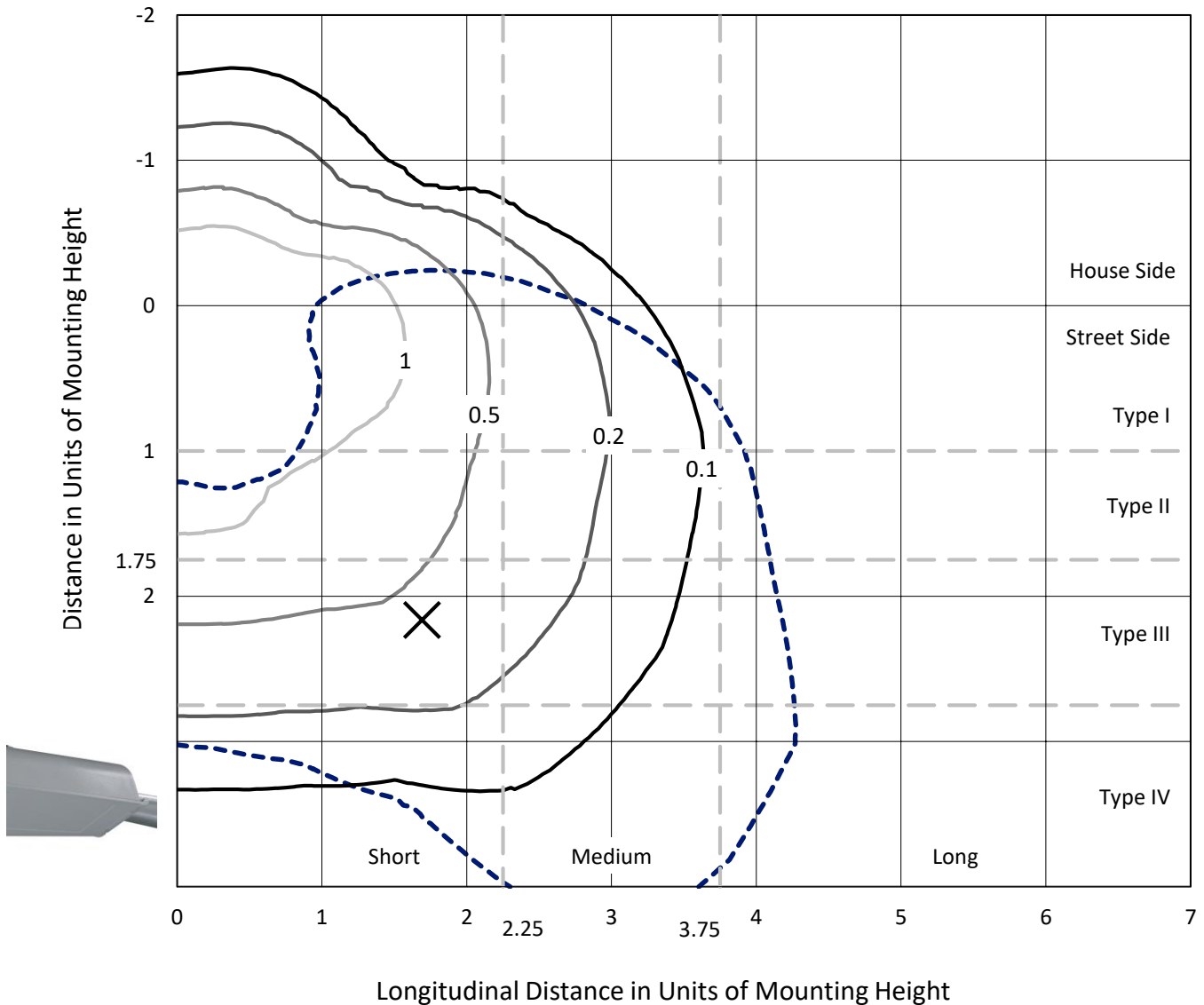


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Iso-Footcandle Lines of Horizontal Illumination

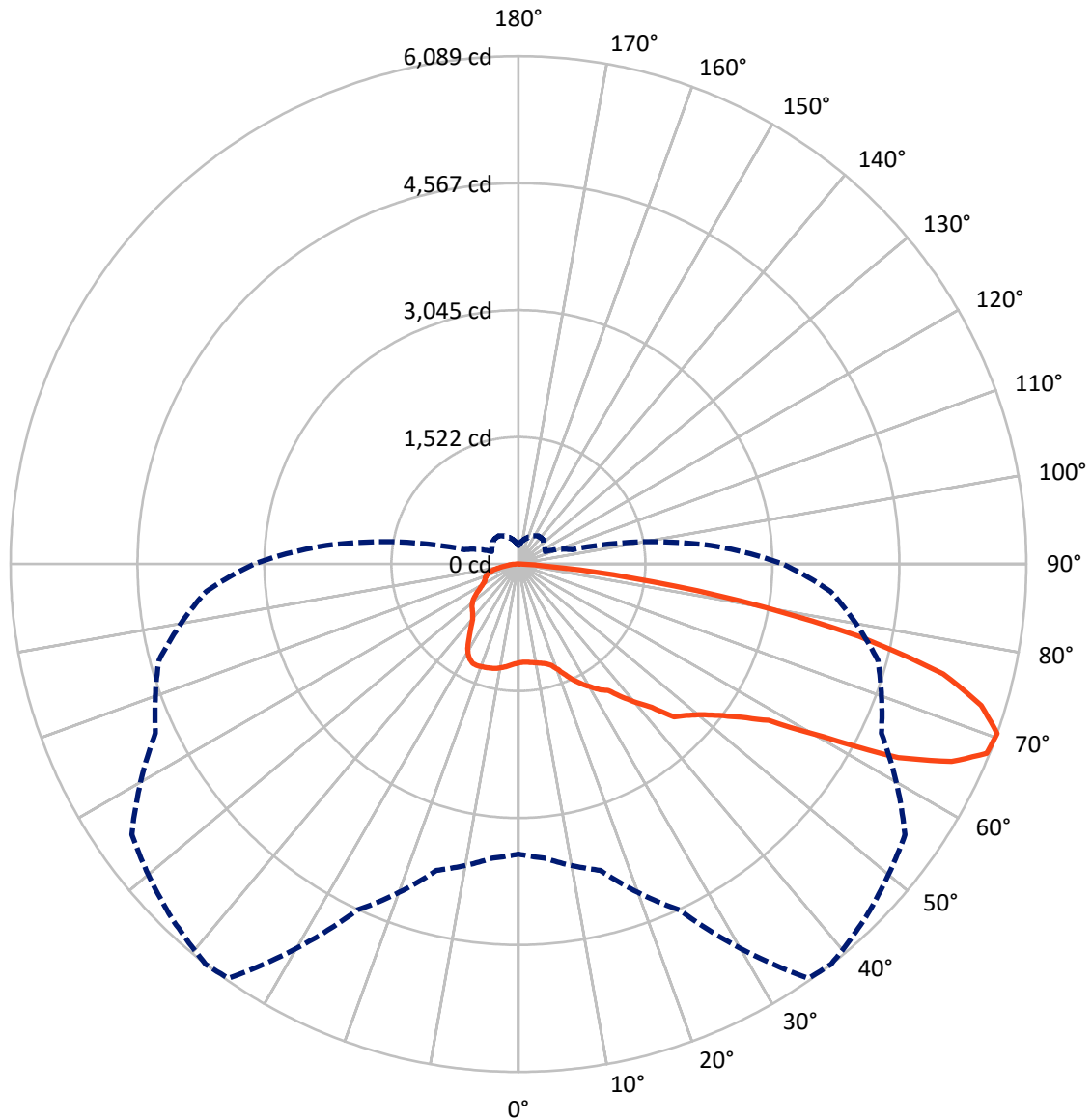
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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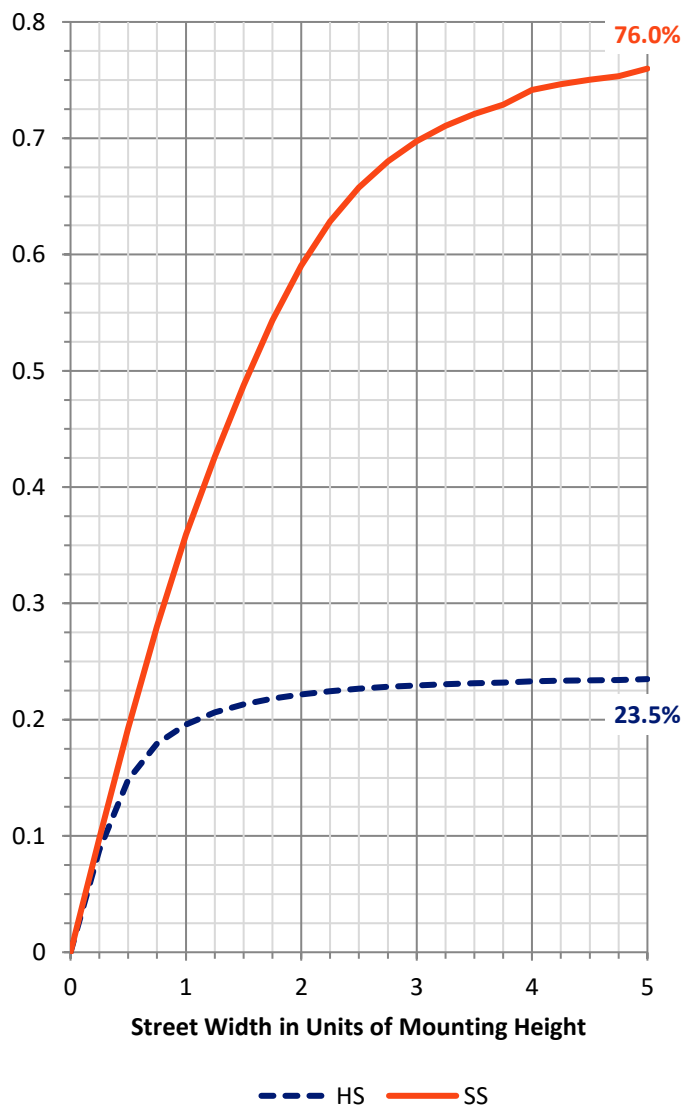
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2601.5	0.0	2601.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	8351.6	0.0	8351.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	10953.0	0.0	10953.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.4	1.1
10°-20°	363.6	3.3
20°-30°	674.7	6.2
30°-40°	1044.6	9.5
40°-50°	1547.9	14.1
50°-60°	2156.7	19.7
60°-70°	2769.8	25.3
70°-80°	2026.4	18.5
80°-90°	253.8	2.3
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°	10953.0	100.0
0°-180°	10953.0	100.0

Coefficient of Utilization



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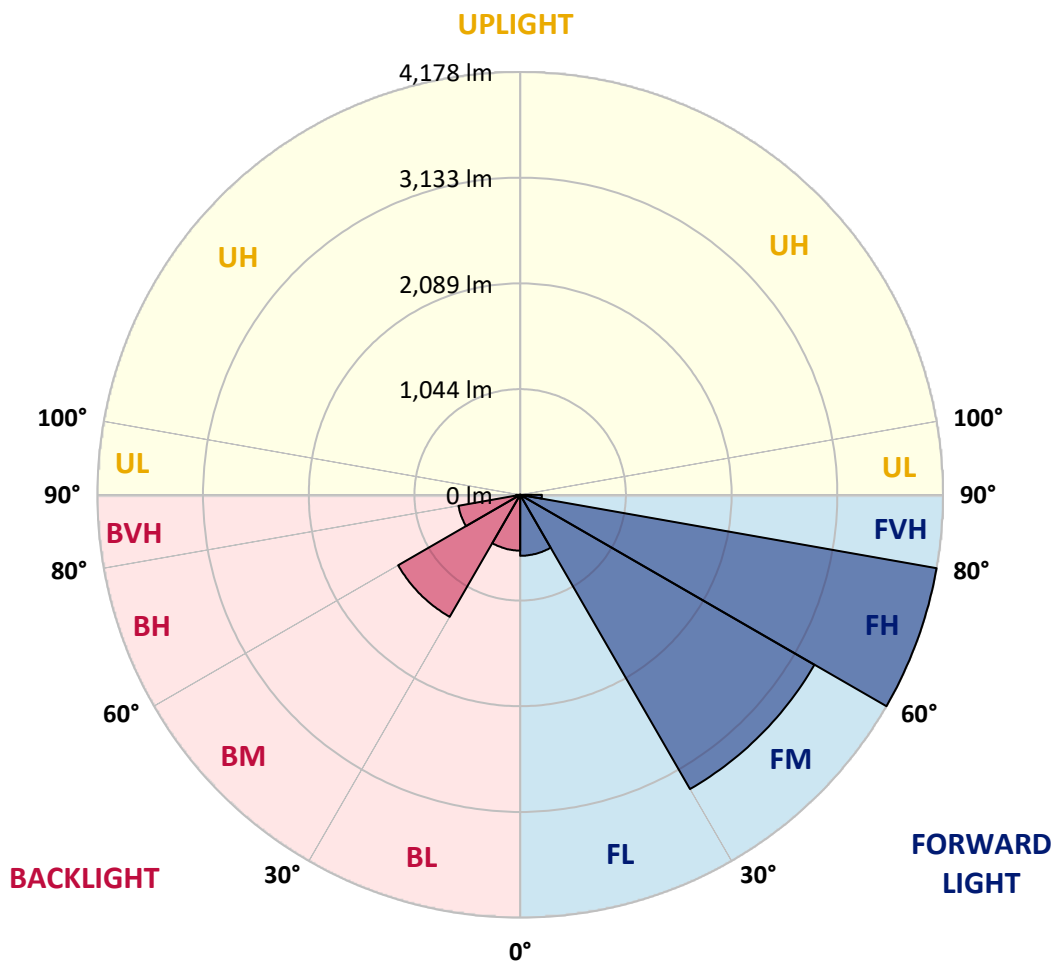
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	602.7	5.5			
FM	(30°-60°)	3356.8	30.6			
FH	(60°-80°)	4177.6	38.1			G2/5000
FVH	(80°-90°)	214.5	2.0			G2/225
BL	(0°-30°)	551.1	5.0	B2/1000		
BM	(30°-60°)	1392.4	12.7	B2/2500		
BH	(60°-80°)	618.6	5.6	B2/1000		G2/1000
BVH	(80°-90°)	39.3	0.4			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1183.5	1183.5	1183.5	1183.5	1183.5	1183.5	1183.5	1183.5	1183.5	1183.5	1183.5
2.5°	1180.4	1180.4	1180.4	1177.3	1177.3	1177.3	1174.1	1174.1	1177.3	1180.4	1180.4
5°	1189.8	1189.8	1186.6	1186.6	1183.5	1183.5	1183.5	1180.4	1180.4	1180.4	1186.6
7.5°	1192.9	1192.9	1192.9	1192.9	1192.9	1192.9	1196.0	1192.9	1192.9	1192.9	1199.1
10°	1192.9	1192.9	1196.0	1196.0	1202.3	1205.4	1208.5	1214.7	1214.7	1214.7	1217.9
12.5°	1199.1	1199.1	1202.3	1205.4	1214.7	1221.0	1227.2	1236.6	1239.7	1239.7	1242.8
15°	1211.6	1211.6	1214.7	1224.1	1236.6	1239.7	1249.1	1261.6	1274.1	1277.2	1280.3
17.5°	1261.6	1261.6	1261.6	1261.6	1274.1	1277.2	1289.7	1308.4	1320.9	1327.2	1336.5
20°	1361.5	1364.6	1358.4	1355.3	1349.0	1349.0	1349.0	1358.4	1374.0	1395.9	1411.5
22.5°	1489.5	1489.5	1489.5	1464.6	1448.9	1445.8	1445.8	1442.7	1455.2	1477.1	1498.9
25°	1589.5	1592.6	1589.5	1567.6	1548.9	1542.6	1542.6	1552.0	1552.0	1570.7	1595.7
27.5°	1670.7	1676.9	1667.5	1648.8	1633.2	1630.1	1633.2	1661.3	1676.9	1689.4	1720.6
30°	1758.1	1761.2	1739.4	1726.9	1717.5	1711.3	1714.4	1755.0	1808.1	1823.7	1876.8
32.5°	1920.5	1920.5	1889.3	1817.4	1792.4	1795.6	1795.6	1848.7	1920.5	1992.3	2061.0
35°	2073.5	2070.4	2042.3	1979.8	1886.1	1864.3	1876.8	1933.0	2045.4	2167.2	2289.0
37.5°	2254.6	2248.4	2223.4	2135.9	2057.9	2023.5	1954.8	2029.8	2167.2	2407.6	2532.5
40°	2457.6	2448.2	2392.0	2304.6	2201.5	2185.9	2126.6	2139.1	2320.2	2660.6	2804.2
42.5°	2570.0	2563.8	2526.3	2454.5	2379.5	2348.3	2298.3	2282.7	2526.3	2988.5	3060.3
45°	2676.2	2688.7	2688.7	2654.3	2623.1	2616.8	2582.5	2595.0	2791.7	3257.0	3285.1
47.5°	2741.8	2754.2	2713.7	2707.4	2707.4	2710.5	2744.9	2829.2	3032.2	3509.9	3481.8
50°	2938.5	2929.1	2766.7	2791.7	2819.8	2838.6	2913.5	3047.8	3366.3	3737.9	3653.6
52.5°	3294.5	3210.2	3016.6	2960.3	2976.0	3013.4	3113.4	3288.2	3706.7	3940.9	3803.5
55°	3734.8	3684.8	3509.9	3260.1	3178.9	3241.4	3347.6	3525.6	3969.0	4131.4	3922.1
57.5°	4031.4	4050.2	4072.0	3900.3	3522.4	3538.1	3609.9	3759.8	4231.3	4315.6	4015.8
60°	4331.2	4353.1	4474.9	4431.2	4343.7	4200.1	3937.8	4009.6	4428.0	4437.4	4084.5
62.5°	4568.6	4584.2	4765.3	4865.2	5093.2	5111.9	4702.8	4325.0	4634.1	4534.2	4112.6
65°	4449.9	4478.0	4749.7	5027.6	5655.3	5708.3	5574.1	4730.9	4793.4	4571.7	4090.8
67.5°	4050.2	4090.8	4378.1	4968.3	6014.4	6055.0	5923.8	5496.0	4849.6	4556.1	3984.6
70°	3478.7	3538.1	3803.5	4577.9	6064.3	6089.3	5926.9	5658.4	4802.8	4462.4	3756.6
72.5°	2829.2	2876.0	3144.6	3925.3	5761.4	5802.0	5752.1	5524.1	4702.8	4281.3	3297.6
75°	2167.2	2170.3	2454.5	3075.9	5099.4	5261.8	5346.1	5264.9	4431.2	3766.0	2538.8
77.5°	1367.8	1408.4	1698.8	2329.6	4006.5	4172.0	4209.4	4109.5	3100.9	2310.8	1093.0
80°	615.2	677.6	974.3	1573.9	2726.1	2719.9	2741.8	2495.1	1651.9	733.8	121.8
82.5°	221.7	234.2	409.1	790.1	1320.9	1355.3	1339.7	1152.3	446.6	103.1	74.9
85°	93.7	99.9	134.3	212.3	299.8	318.5	274.8	209.2	71.8	59.3	50.0
87.5°	6.2	6.2	6.2	6.2	6.2	9.4	9.4	9.4	9.4	12.5	15.6
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°	1183.5	1183.5	1183.5	1183.5	1183.5	1183.5	1183.5	1183.5	1183.5	1183.5	1183.5
2.5°	1180.4	1183.5	1186.6	1192.9	1192.9	1196.0	1199.1	1202.3	1202.3	1202.3	1202.3
5°	1189.8	1192.9	1196.0	1205.4	1211.6	1214.7	1221.0	1224.1	1227.2	1227.2	1227.2
7.5°	1202.3	1205.4	1211.6	1221.0	1230.4	1236.6	1242.8	1246.0	1249.1	1249.1	1249.1
10°	1221.0	1227.2	1236.6	1249.1	1258.5	1258.5	1261.6	1264.7	1267.8	1267.8	1267.8
12.5°	1246.0	1252.2	1267.8	1283.4	1286.6	1283.4	1277.2	1277.2	1274.1	1271.0	1271.0
15°	1286.6	1289.7	1311.5	1324.0	1314.7	1299.1	1286.6	1274.1	1264.7	1258.5	1258.5
17.5°	1342.8	1352.1	1374.0	1374.0	1349.0	1320.9	1289.7	1258.5	1233.5	1224.1	1221.0
20°	1424.0	1436.5	1455.2	1436.5	1395.9	1345.9	1289.7	1239.7	1189.8	1158.5	1149.2
22.5°	1514.5	1530.1	1536.4	1495.8	1436.5	1367.8	1292.8	1214.7	1133.6	1064.9	1046.1
25°	1620.7	1630.1	1608.2	1542.6	1461.4	1374.0	1283.4	1180.4	1055.5	964.9	955.6
27.5°	1745.6	1736.2	1676.9	1577.0	1467.7	1361.5	1249.1	1111.7	955.6	886.9	877.5
30°	1879.9	1845.5	1736.2	1595.7	1448.9	1324.0	1189.8	1008.6	880.6	824.4	818.2
32.5°	2039.1	1970.4	1792.4	1598.8	1414.6	1258.5	1093.0	924.3	830.6	768.2	761.9
35°	2217.1	2111.0	1842.4	1580.1	1345.9	1167.9	977.4	861.9	777.6	718.2	705.7
37.5°	2457.6	2301.5	1904.9	1539.5	1258.5	1052.4	893.1	796.3	724.5	658.9	649.5
40°	2704.3	2520.0	1992.3	1492.7	1161.7	958.7	821.3	749.5	687.0	612.1	596.4
42.5°	2951.0	2738.6	2111.0	1436.5	1064.9	886.9	790.1	743.2	668.3	590.2	574.6
45°	3154.0	2926.0	2223.4	1370.9	968.0	821.3	771.3	730.7	655.8	571.5	552.7
47.5°	3328.8	3082.1	2320.2	1311.5	874.4	771.3	755.7	708.9	637.0	552.7	534.0
50°	3475.6	3207.0	2398.3	1261.6	796.3	737.0	724.5	668.3	593.3	521.5	509.0
52.5°	3603.6	3297.6	2432.6	1246.0	718.2	696.4	674.5	618.3	549.6	484.0	465.3
55°	3687.9	3366.3	2426.4	1246.0	643.3	640.2	615.2	571.5	521.5	468.4	449.7
57.5°	3753.5	3397.5	2379.5	1064.9	580.8	568.3	552.7	534.0	502.8	443.4	424.7
60°	3784.7	3378.8	2279.6	774.4	518.4	496.5	509.0	502.8	471.5	390.3	377.9
62.5°	3766.0	3322.6	2054.8	565.2	452.8	449.7	468.4	455.9	396.6	324.8	318.5
65°	3694.2	3182.1	1767.5	424.7	415.3	437.2	446.6	421.6	365.4	299.8	274.8
67.5°	3509.9	2910.4	1286.6	381.0	402.8	427.8	434.1	399.7	343.5	281.0	249.8
70°	3169.6	2398.3	668.3	352.9	384.1	415.3	412.2	368.5	312.3	256.1	218.6
72.5°	2570.0	1701.9	252.9	315.4	356.0	387.2	381.0	331.0	221.7	159.3	143.6
75°	1667.5	815.0	218.6	271.7	318.5	346.6	349.7	299.8	193.6	134.3	115.5
77.5°	571.5	149.9	178.0	224.8	274.8	312.3	302.9	240.5	149.9	99.9	90.6
80°	96.8	99.9	137.4	159.3	190.5	249.8	212.3	171.8	118.7	71.8	59.3
82.5°	68.7	84.3	96.8	93.7	131.2	165.5	143.6	115.5	78.1	56.2	50.0
85°	50.0	56.2	53.1	56.2	74.9	109.3	99.9	81.2	56.2	40.6	34.4
87.5°	18.7	18.7	25.0	31.2	46.8	68.7	59.3	25.0	21.9	18.7	18.7
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)