

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: P798837

Luminaire Tested: **ARCH1-40-722-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798837
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-40-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4890 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

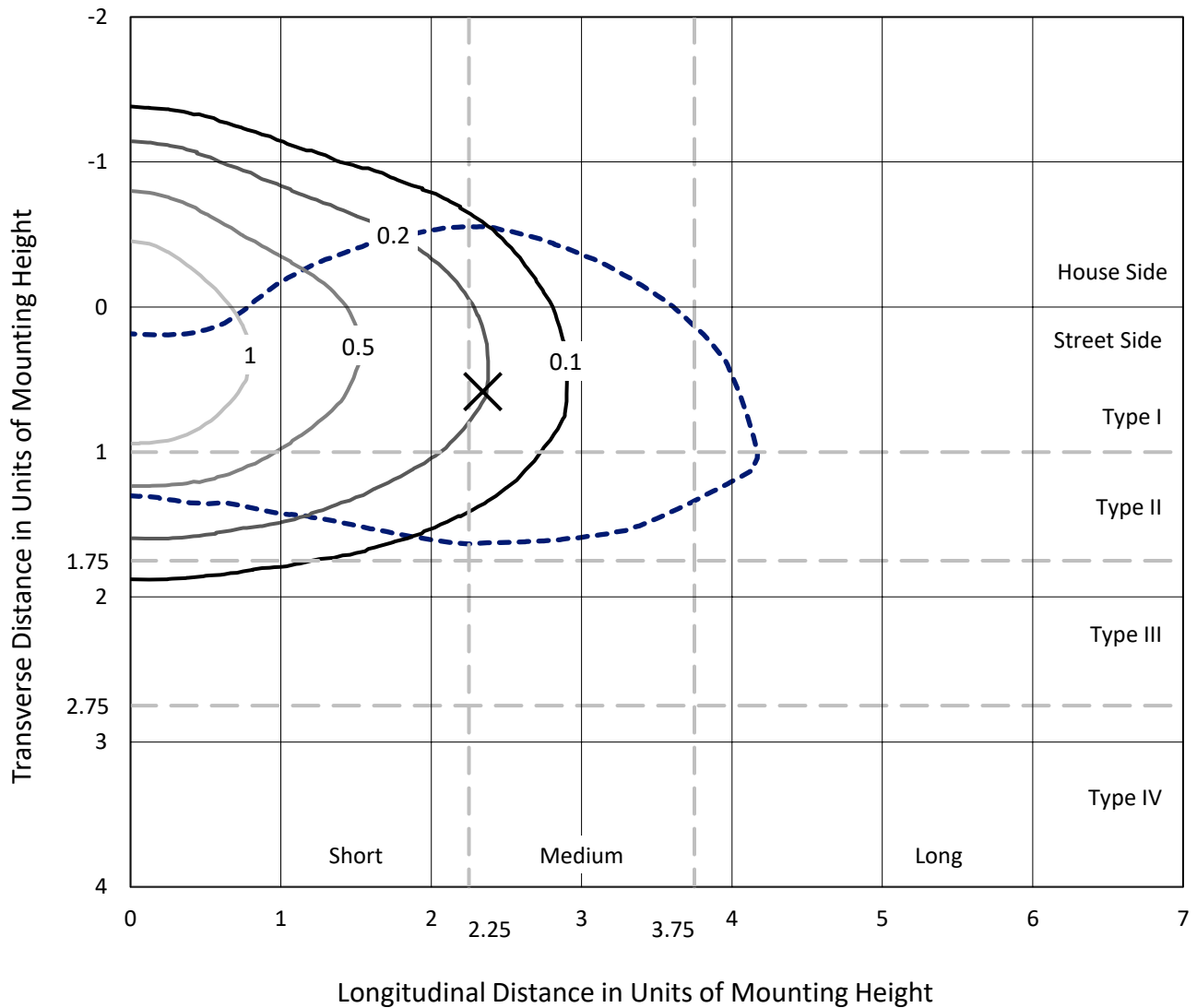
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

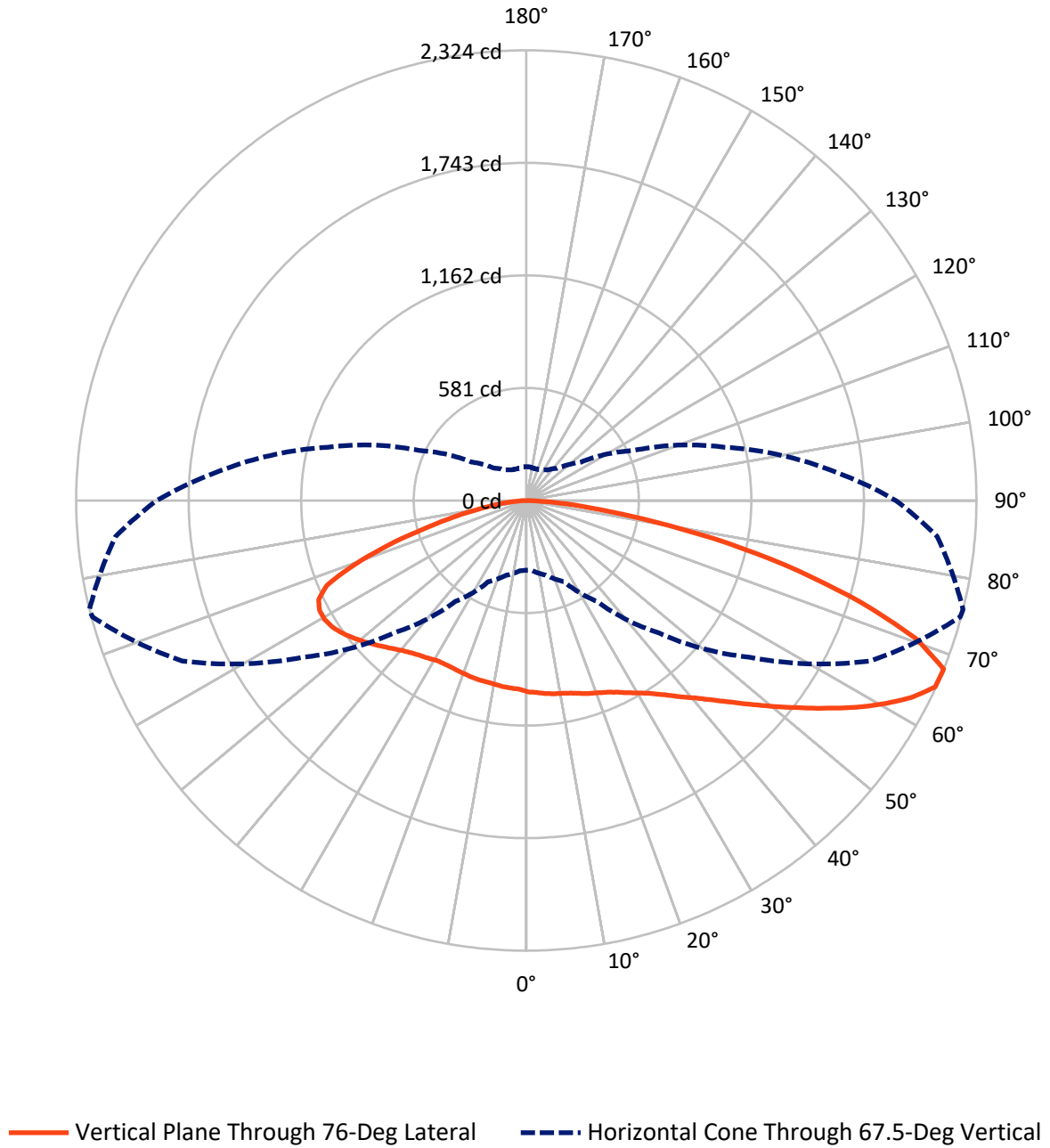
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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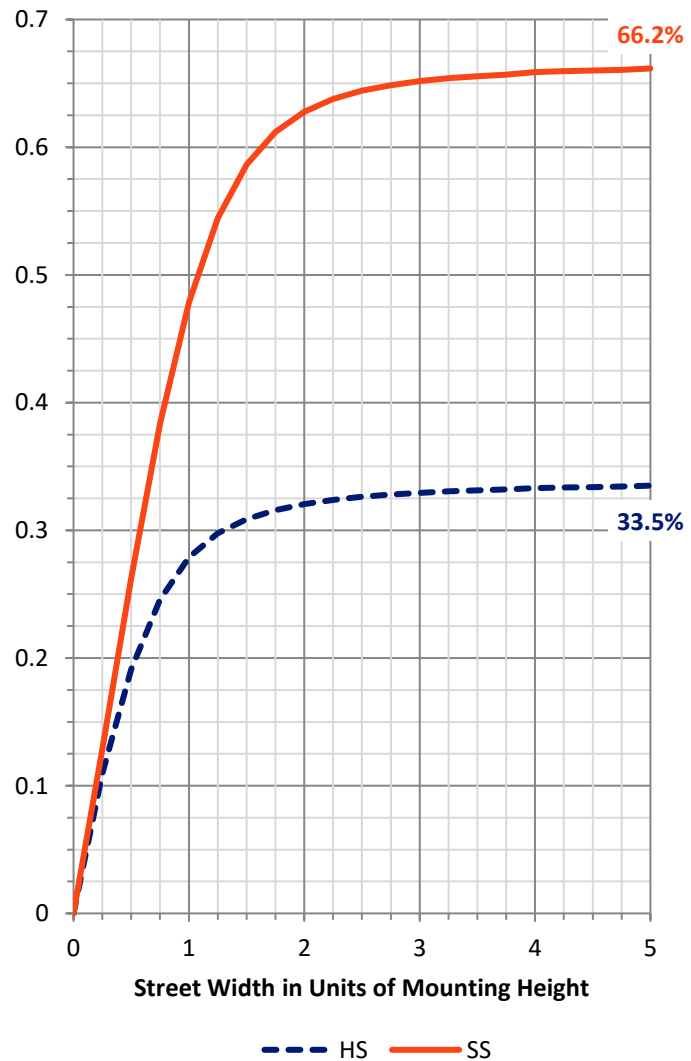
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1652.4	0.0	1652.4
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	3237.6	0.0	3237.6
	% Fixture	66.2	0.0	66.2
Total	Lumens	4890.0	0.0	4890.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	1.9
10°-20°	291.2	6.0
20°-30°	494.7	10.1
30°-40°	704.0	14.4
40°-50°	889.1	18.2
50°-60°	962.6	19.7
60°-70°	895.3	18.3
70°-80°	480.9	9.8
80°-90°	77.0	1.6
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°	4890.0	100.0
0°-180°	4890.0	100.0



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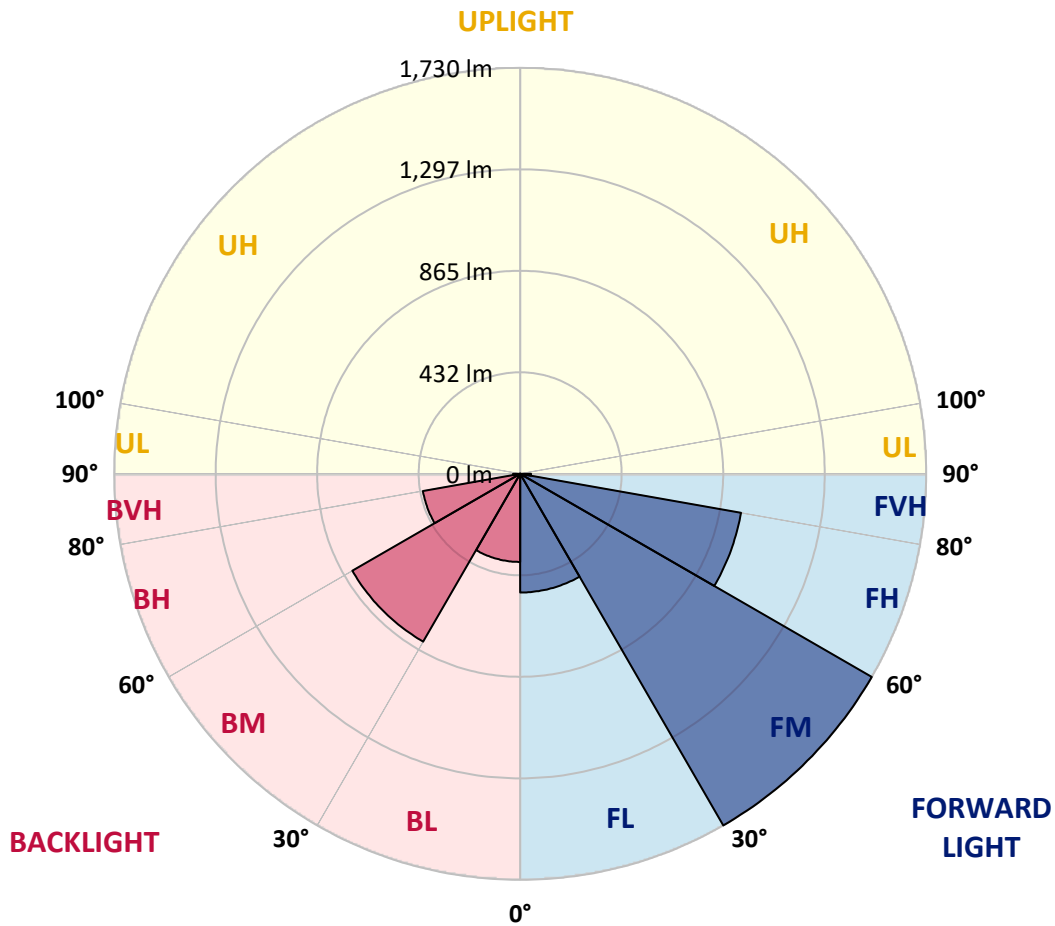
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	505.7	10.3			
FM (30°-60°)	1729.9	35.4			
FH (60°-80°)	955.5	19.5			G1/1800
FVH (80°-90°)	46.6	1.0			G1/100
BL (0°-30°)	375.5	7.7	B1/500		
BM (30°-60°)	825.7	16.9	B1/1000		
BH (60°-80°)	420.7	8.6	B1/500		G1/500
BVH (80°-90°)	30.4	0.6			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	987.8	987.8	987.8	987.8	987.8	987.8	987.8	987.8	987.8	987.8	987.8
2.5°	1017.7	1015.9	1008.7	1009.6	1009.6	1008.7	997.8	993.2	993.2	992.3	982.3
5°	1054.0	1051.3	1043.1	1041.3	1037.7	1033.2	1015.9	1005.9	1001.4	1000.5	986.9
7.5°	1096.7	1093.1	1083.1	1077.6	1068.6	1056.8	1035.0	1019.5	1008.7	1007.7	988.7
10°	1139.4	1135.8	1124.0	1114.0	1101.3	1082.2	1054.0	1031.3	1014.1	1012.3	989.6
12.5°	1190.2	1186.6	1172.1	1159.4	1140.3	1114.9	1077.6	1046.8	1023.2	1020.5	992.3
15°	1243.8	1238.3	1223.8	1209.3	1185.7	1153.0	1108.5	1067.7	1037.7	1033.2	1000.5
17.5°	1288.3	1281.0	1269.2	1254.7	1228.4	1190.2	1139.4	1088.5	1051.3	1047.7	1008.7
20°	1326.4	1321.0	1308.2	1294.6	1266.5	1224.7	1168.4	1109.4	1064.0	1059.5	1015.0
22.5°	1362.7	1355.5	1348.2	1338.2	1307.3	1261.0	1202.0	1134.8	1080.4	1074.9	1023.2
25°	1404.5	1396.3	1393.6	1388.1	1351.8	1304.6	1242.9	1166.6	1103.1	1096.7	1037.7
27.5°	1456.2	1447.2	1441.7	1441.7	1398.1	1349.1	1286.5	1203.8	1129.4	1124.0	1055.9
30°	1510.7	1499.8	1491.6	1491.6	1442.6	1393.6	1329.1	1241.1	1159.4	1153.0	1079.5
32.5°	1558.8	1547.9	1538.8	1537.9	1487.1	1438.1	1373.6	1281.9	1195.7	1187.5	1108.5
35°	1596.0	1586.1	1577.9	1579.7	1531.6	1483.5	1423.5	1336.4	1241.1	1232.0	1146.6
37.5°	1618.7	1615.1	1610.6	1616.9	1572.4	1527.0	1475.3	1389.1	1292.8	1284.6	1193.9
40°	1630.5	1627.8	1646.0	1654.2	1606.9	1566.1	1527.0	1443.5	1349.1	1340.0	1248.3
42.5°	1647.8	1670.5	1677.8	1675.9	1632.4	1596.0	1574.3	1502.5	1415.4	1407.2	1313.7
45°	1586.1	1580.6	1620.6	1642.3	1634.2	1615.1	1618.7	1573.3	1492.5	1484.4	1389.1
47.5°	1503.4	1496.2	1518.9	1572.4	1604.2	1622.4	1658.7	1646.9	1581.5	1574.3	1477.1
50°	1329.1	1339.1	1423.5	1495.3	1557.9	1620.6	1692.3	1725.9	1679.6	1672.3	1571.5
52.5°	1135.8	1145.7	1233.8	1399.0	1501.6	1606.9	1716.8	1804.9	1785.8	1777.6	1672.3
55°	995.0	1016.8	1116.7	1236.5	1421.7	1564.3	1731.3	1885.7	1900.2	1892.9	1782.2
57.5°	855.2	871.6	946.9	1053.1	1312.8	1489.8	1730.4	1961.0	2020.0	2012.8	1893.8
60°	690.9	711.8	771.7	886.1	1167.5	1400.9	1705.0	2020.0	2135.3	2129.9	2001.9
62.5°	578.3	584.7	627.3	726.3	980.5	1288.3	1647.8	2051.8	2239.7	2236.1	2099.0
65°	465.7	466.6	505.7	588.3	799.8	1148.5	1550.7	2040.0	2318.7	2320.5	2168.9
67.5°	359.5	364.1	399.5	462.1	635.5	966.9	1411.7	1960.1	2319.6	2324.2	2129.0
70°	248.8	252.4	306.0	366.8	491.2	770.8	1223.8	1748.6	2129.0	2132.6	1908.4
72.5°	175.2	177.0	234.2	293.2	384.0	581.0	923.3	1446.2	1814.8	1817.6	1605.1
75°	130.7	132.5	165.2	222.4	294.2	402.2	631.0	1107.6	1449.9	1449.9	1267.4
77.5°	92.6	93.5	107.1	153.4	196.1	271.5	379.5	725.4	1064.0	1065.8	923.3
80°	62.6	63.6	69.9	103.5	122.6	147.1	206.1	380.4	670.9	673.6	586.5
82.5°	32.7	34.5	39.0	52.7	61.7	81.7	106.2	193.4	371.3	378.6	352.3
85°	12.7	12.7	14.5	17.2	22.7	31.8	49.0	73.5	168.0	173.4	155.2
87.5°	4.5	4.5	5.4	5.4	6.4	7.3	8.2	10.9	19.1	19.1	18.2
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°	987.8	987.8	987.8	987.8	987.8	987.8	987.8	987.8	987.8	987.8	987.8
2.5°	978.7	978.7	974.2	976.0	975.1	973.2	971.4	974.2	971.4	965.1	964.2
5°	980.5	978.7	971.4	970.5	967.8	964.2	959.6	961.4	956.9	951.5	950.5
7.5°	981.4	977.8	967.8	964.2	958.7	951.5	944.2	944.2	937.8	932.4	931.5
10°	979.6	975.1	961.4	954.2	944.2	933.3	923.3	920.6	913.3	907.0	907.0
12.5°	980.5	974.2	956.9	945.1	931.5	917.9	905.2	901.5	895.2	888.8	887.9
15°	986.0	976.9	955.1	939.7	919.7	904.2	890.6	887.9	882.5	877.9	877.9
17.5°	991.4	979.6	952.4	930.6	906.1	888.8	876.1	876.1	872.5	869.7	869.7
20°	994.1	980.5	946.9	917.9	889.7	871.6	859.8	861.6	860.7	859.8	859.8
22.5°	1000.5	982.3	942.4	906.1	872.5	853.4	842.5	845.2	844.3	844.3	845.2
25°	1010.5	986.9	938.7	895.2	856.1	835.2	823.4	825.3	825.3	825.3	825.3
27.5°	1024.1	995.9	937.8	885.2	839.8	816.2	801.7	801.7	798.0	798.9	799.8
30°	1045.0	1013.2	939.7	876.1	822.5	792.6	775.3	772.6	771.7	773.5	774.4
32.5°	1070.4	1036.8	950.5	869.7	804.4	766.2	744.5	743.6	740.8	740.8	740.8
35°	1102.2	1059.5	960.5	868.8	786.2	738.1	714.5	711.8	705.4	702.7	702.7
37.5°	1143.0	1094.9	972.3	862.5	770.8	710.9	682.7	673.6	666.4	665.5	665.5
40°	1192.9	1134.8	989.6	855.2	754.4	682.7	645.5	630.1	631.0	634.6	634.6
42.5°	1252.0	1183.9	1011.4	851.6	730.8	653.7	601.9	583.8	590.1	593.8	594.7
45°	1321.0	1242.0	1035.9	847.0	709.1	621.0	555.6	532.9	535.6	536.6	537.5
47.5°	1400.9	1306.4	1061.3	843.4	684.5	580.1	504.8	474.8	473.9	468.5	470.3
50°	1484.4	1374.5	1087.6	837.1	654.6	532.0	451.2	415.8	408.5	400.4	401.3
52.5°	1573.3	1444.4	1112.1	827.1	617.4	483.0	400.4	362.2	347.7	338.6	340.5
55°	1671.4	1516.2	1135.8	811.6	578.3	434.0	355.0	315.9	297.8	290.5	291.4
57.5°	1761.3	1585.2	1153.0	792.6	535.6	389.5	315.0	276.9	265.1	264.2	265.1
60°	1848.4	1643.3	1160.3	766.2	492.1	348.6	277.8	248.8	240.6	245.1	246.0
62.5°	1922.0	1680.5	1156.6	730.8	447.6	309.6	247.9	227.0	221.5	230.6	231.5
65°	1964.6	1692.3	1131.2	680.0	399.5	271.5	219.7	197.0	194.3	199.7	202.5
67.5°	1908.4	1618.7	1062.2	610.1	345.9	236.0	192.5	174.3	169.8	174.3	174.3
70°	1691.4	1402.7	898.8	499.3	286.9	201.5	167.0	154.3	150.7	154.3	153.4
72.5°	1409.0	1166.6	708.1	389.5	226.1	169.8	145.3	133.5	129.8	126.2	124.4
75°	1093.1	886.1	513.9	286.0	170.7	136.2	121.7	110.8	101.7	105.3	103.5
77.5°	800.7	621.9	364.1	197.9	122.6	105.3	95.3	87.2	80.8	88.1	87.2
80°	515.7	402.2	243.3	132.5	84.4	73.5	69.9	65.4	71.7	93.5	95.3
82.5°	315.0	255.1	145.3	86.2	55.4	49.0	45.4	45.4	73.5	80.8	81.7
85°	140.7	135.3	79.0	44.5	30.9	28.1	25.4	32.7	30.0	21.8	22.7
87.5°	22.7	23.6	17.2	15.4	11.8	11.8	9.1	6.4	4.5	2.7	2.7
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)