

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: P798965

Luminaire Tested: **ARCH1-50-722-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798965
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: ARCH1-50-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5689 lumens
Efficiency: N/A
Efficacy: 107.3 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

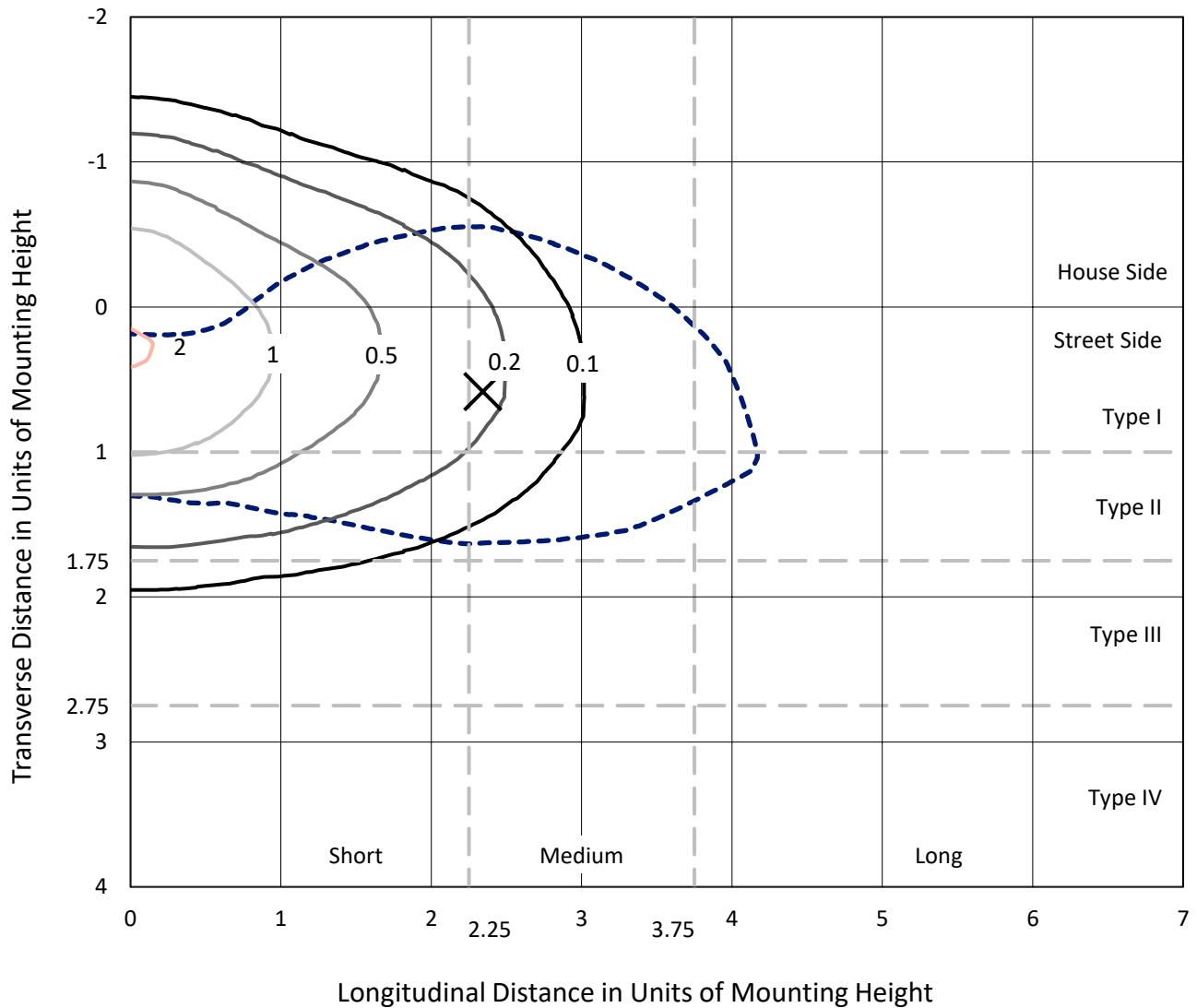
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

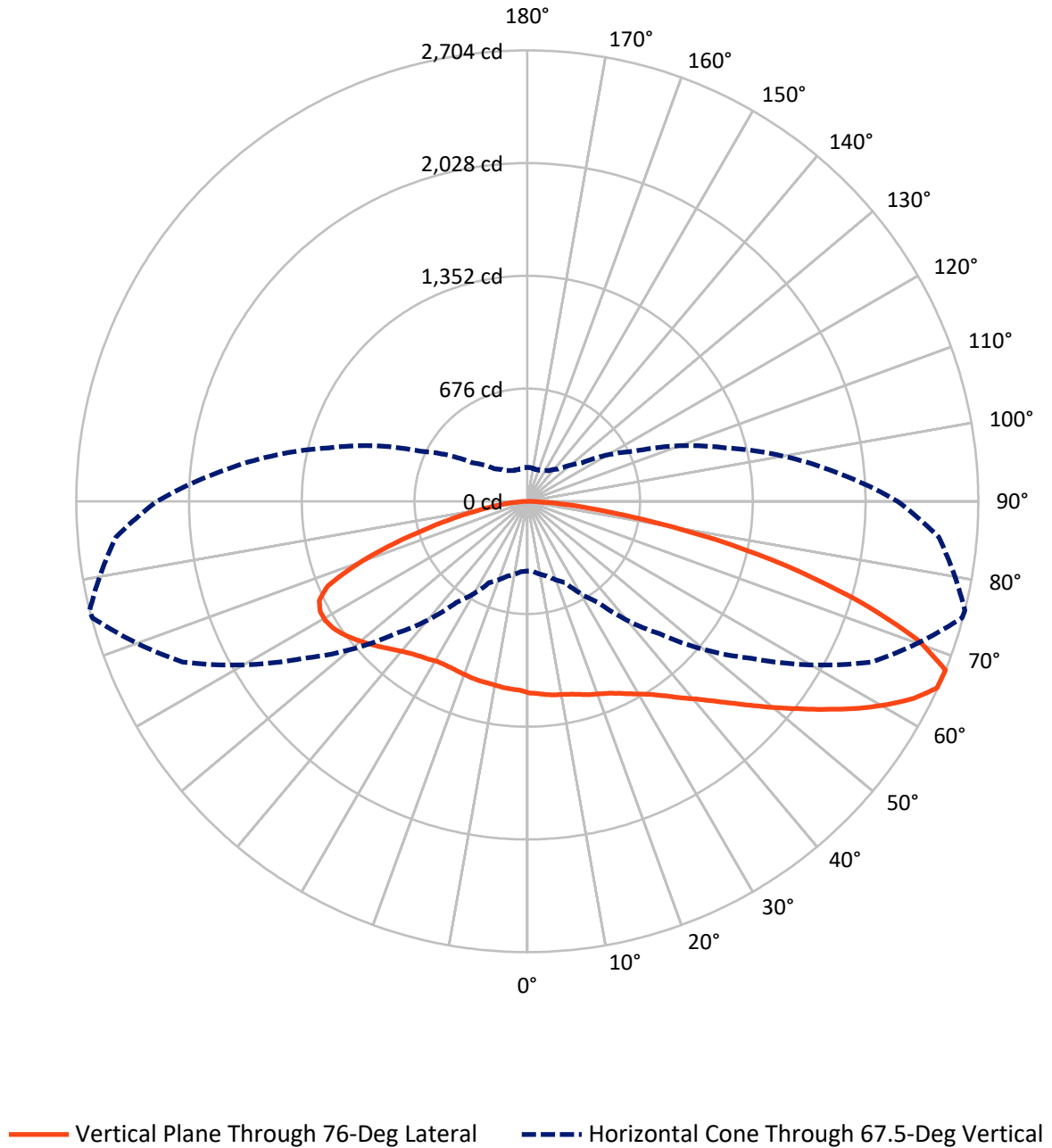
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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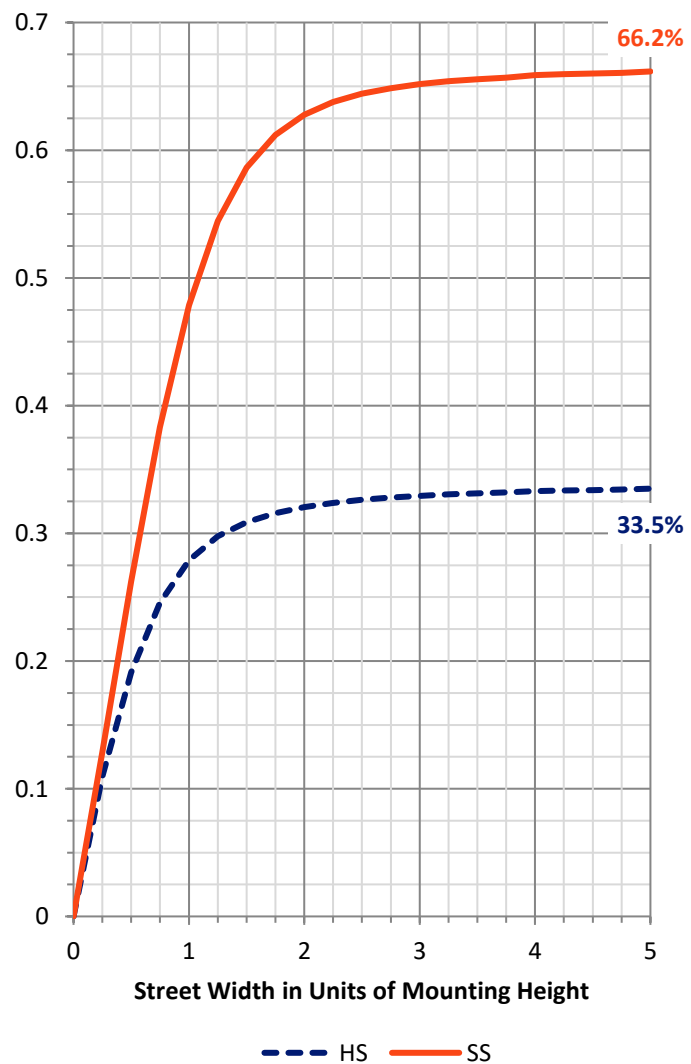
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1922.3	0.0	1922.3
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	3766.7	0.0	3766.7
	% Fixture	66.2	0.0	66.2
Total	Lumens	5689.0	0.0	5689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	1.9
10°-20°	338.8	6.0
20°-30°	575.6	10.1
30°-40°	819.0	14.4
40°-50°	1034.3	18.2
50°-60°	1119.9	19.7
60°-70°	1041.6	18.3
70°-80°	559.4	9.8
80°-90°	89.6	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°	5689.0	100.0
0°-180°	5689.0	100.0

Coefficient of Utilization



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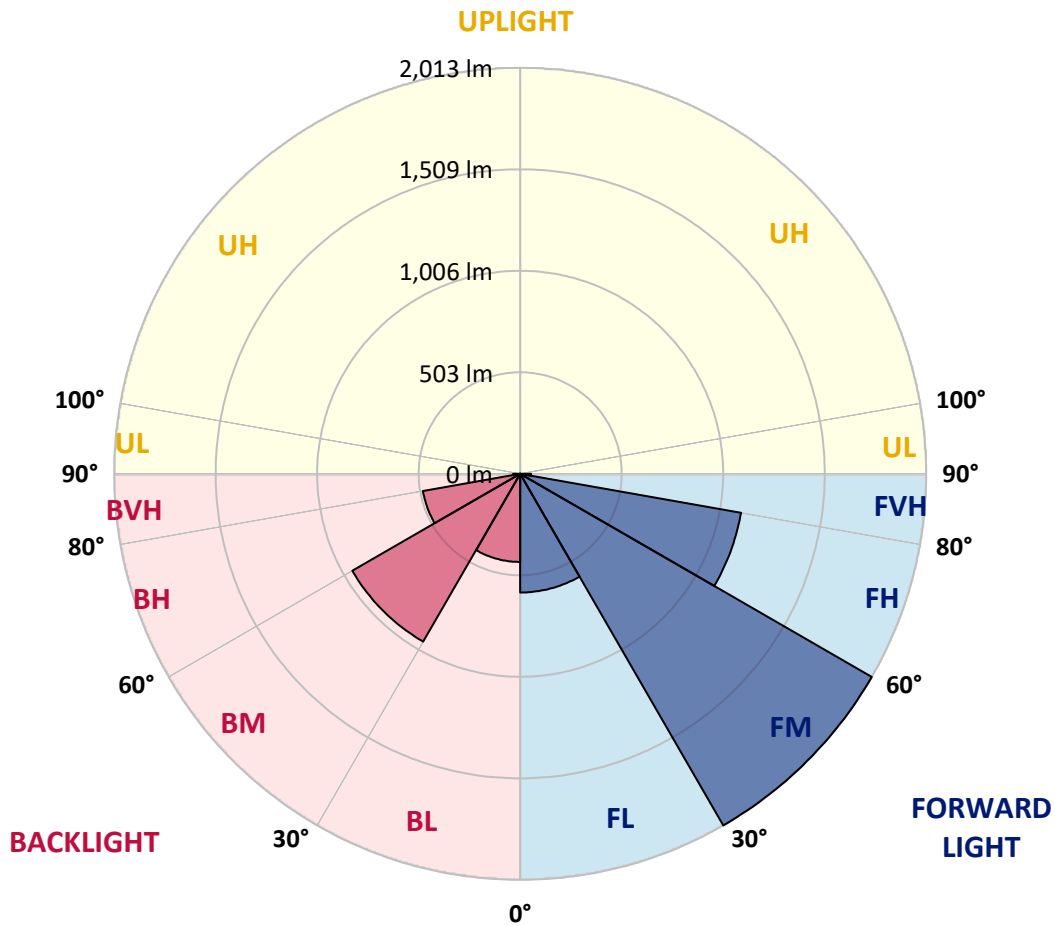
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	588.3	10.3			
FM (30°-60°)	2012.6	35.4			
FH (60°-80°)	1111.6	19.5			G1/1800
FVH (80°-90°)	54.2	1.0			G1/100
BL (0°-30°)	436.9	7.7	B1/500		
BM (30°-60°)	960.6	16.9	B1/1000		
BH (60°-80°)	489.4	8.6	B1/500		G1/500
BVH (80°-90°)	35.4	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°	1149.2	1149.2	1149.2	1149.2	1149.2	1149.2	1149.2	1149.2	1149.2	1149.2	1149.2
2.5°	1184.0	1181.9	1173.5	1174.5	1174.5	1173.5	1160.8	1155.5	1155.5	1154.4	1142.8
5°	1226.3	1223.1	1213.6	1211.5	1207.3	1202.0	1181.9	1170.3	1165.0	1164.0	1148.1
7.5°	1275.9	1271.7	1260.1	1253.7	1243.2	1229.4	1204.1	1186.1	1173.5	1172.4	1150.2
10°	1325.6	1321.3	1307.6	1296.0	1281.2	1259.0	1226.3	1199.9	1179.8	1177.7	1151.3
12.5°	1384.7	1380.5	1363.6	1348.8	1326.6	1297.0	1253.7	1217.8	1190.4	1187.2	1154.4
15°	1447.0	1440.7	1423.8	1406.9	1379.4	1341.4	1289.6	1242.1	1207.3	1202.0	1164.0
17.5°	1498.8	1490.3	1476.6	1459.7	1429.1	1384.7	1325.6	1266.4	1223.1	1218.9	1173.5
20°	1543.1	1536.8	1522.0	1506.2	1473.4	1424.8	1359.4	1290.7	1237.9	1232.6	1180.9
22.5°	1585.4	1576.9	1568.5	1556.9	1521.0	1467.1	1398.4	1320.3	1256.9	1250.6	1190.4
25°	1634.0	1624.5	1621.3	1615.0	1572.7	1517.8	1446.0	1357.2	1283.3	1275.9	1207.3
27.5°	1694.2	1683.6	1677.3	1677.3	1626.6	1569.5	1496.7	1400.5	1313.9	1307.6	1228.4
30°	1757.5	1744.9	1735.4	1735.4	1678.3	1621.3	1546.3	1443.9	1348.8	1341.4	1255.8
32.5°	1813.5	1800.9	1790.3	1789.2	1730.1	1673.0	1598.1	1491.4	1391.0	1381.5	1289.6
35°	1856.8	1845.2	1835.7	1837.8	1781.8	1725.9	1656.2	1554.8	1443.9	1433.3	1334.0
37.5°	1883.2	1879.0	1873.7	1881.1	1829.4	1776.6	1716.4	1616.0	1504.1	1494.5	1388.9
40°	1897.0	1893.8	1914.9	1924.4	1869.5	1822.0	1776.6	1679.4	1569.5	1559.0	1452.3
42.5°	1917.0	1943.4	1951.9	1949.8	1899.1	1856.8	1831.5	1748.0	1646.6	1637.1	1528.3
45°	1845.2	1838.9	1885.3	1910.7	1901.2	1879.0	1883.2	1830.4	1736.4	1726.9	1616.0
47.5°	1749.1	1740.6	1767.1	1829.4	1866.3	1887.5	1929.7	1916.0	1839.9	1831.5	1718.5
50°	1546.3	1557.9	1656.2	1739.6	1812.5	1885.3	1968.8	2007.9	1954.0	1945.6	1828.3
52.5°	1321.3	1332.9	1435.4	1627.6	1747.0	1869.5	1997.3	2099.8	2077.6	2068.1	1945.6
55°	1157.6	1183.0	1299.1	1438.6	1654.0	1819.9	2014.2	2193.8	2210.7	2202.2	2073.4
57.5°	995.0	1014.0	1101.6	1225.2	1527.3	1733.3	2013.2	2281.4	2350.1	2341.6	2203.3
60°	803.8	828.1	897.8	1030.9	1358.3	1629.7	1983.6	2350.1	2484.2	2477.9	2329.0
62.5°	672.8	680.2	729.8	845.0	1140.7	1498.8	1917.0	2387.1	2605.7	2601.5	2442.0
65°	541.8	542.9	588.3	684.4	930.5	1336.1	1804.0	2373.3	2697.6	2699.7	2523.3
67.5°	418.3	423.5	464.7	537.6	739.4	1124.9	1642.4	2280.4	2698.6	2703.9	2476.8
70°	289.4	293.6	355.9	426.7	571.4	896.7	1423.8	2034.3	2476.8	2481.1	2220.2
72.5°	203.9	206.0	272.5	341.2	446.8	676.0	1074.2	1682.6	2111.4	2114.5	1867.4
75°	152.1	154.2	192.2	258.8	342.2	467.9	734.1	1288.6	1686.8	1686.8	1474.5
77.5°	107.7	108.8	124.6	178.5	228.1	315.8	441.5	843.9	1237.9	1240.0	1074.2
80°	72.9	73.9	81.3	120.4	142.6	171.1	239.8	442.6	780.5	783.7	682.3
82.5°	38.0	40.1	45.4	61.3	71.8	95.1	123.6	225.0	432.0	440.4	409.8
85°	14.8	14.8	16.9	20.1	26.4	37.0	57.0	85.6	195.4	201.7	180.6
87.5°	5.3	5.3	6.3	6.3	7.4	8.4	9.5	12.7	22.2	22.2	21.1
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°	1149.2	1149.2	1149.2	1149.2	1149.2	1149.2	1149.2	1149.2	1149.2	1149.2	1149.2
2.5°	1138.6	1138.6	1133.3	1135.4	1134.4	1132.3	1130.2	1133.3	1130.2	1122.8	1121.7
5°	1140.7	1138.6	1130.2	1129.1	1125.9	1121.7	1116.4	1118.5	1113.3	1106.9	1105.9
7.5°	1141.8	1137.5	1125.9	1121.7	1115.4	1106.9	1098.5	1098.5	1091.1	1084.7	1083.7
10°	1139.7	1134.4	1118.5	1110.1	1098.5	1085.8	1074.2	1071.0	1062.6	1055.2	1055.2
12.5°	1140.7	1133.3	1113.3	1099.5	1083.7	1067.8	1053.0	1048.8	1041.4	1034.0	1033.0
15°	1147.1	1136.5	1111.1	1093.2	1069.9	1052.0	1036.2	1033.0	1026.6	1021.4	1021.4
17.5°	1153.4	1139.7	1108.0	1082.6	1054.1	1034.0	1019.3	1019.3	1015.0	1011.9	1011.9
20°	1156.6	1140.7	1101.6	1067.8	1035.1	1014.0	1000.2	1002.4	1001.3	1000.2	1000.2
22.5°	1164.0	1142.8	1096.4	1054.1	1015.0	992.8	980.2	983.3	982.3	982.3	983.3
25°	1175.6	1148.1	1092.1	1041.4	996.0	971.7	958.0	960.1	960.1	960.1	960.1
27.5°	1191.4	1158.7	1091.1	1029.8	977.0	949.5	932.6	932.6	928.4	929.5	930.5
30°	1215.7	1178.7	1093.2	1019.3	956.9	922.1	902.0	898.8	897.8	899.9	901.0
32.5°	1245.3	1206.2	1105.9	1011.9	935.8	891.4	866.1	865.0	861.9	861.9	861.9
35°	1282.2	1232.6	1117.5	1010.8	914.7	858.7	831.2	828.1	820.7	817.5	817.5
37.5°	1329.8	1273.8	1131.2	1003.4	896.7	827.0	794.3	783.7	775.3	774.2	774.2
40°	1387.9	1320.3	1151.3	995.0	877.7	794.3	751.0	733.0	734.1	738.3	738.3
42.5°	1456.5	1377.3	1176.6	990.7	850.3	760.5	700.3	679.1	686.5	690.8	691.8
45°	1536.8	1444.9	1205.1	985.5	824.9	722.5	646.4	620.0	623.2	624.2	625.3
47.5°	1629.7	1519.9	1234.7	981.2	796.4	674.9	587.3	552.4	551.3	545.0	547.1
50°	1726.9	1599.1	1265.3	973.8	761.5	618.9	524.9	483.7	475.3	465.8	466.8
52.5°	1830.4	1680.4	1293.9	962.2	718.2	561.9	465.8	421.4	404.5	394.0	396.1
55°	1944.5	1763.9	1321.3	944.3	672.8	504.9	413.0	367.6	346.4	338.0	339.0
57.5°	2049.1	1844.2	1341.4	922.1	623.2	453.1	366.5	322.1	308.4	307.4	308.4
60°	2150.5	1911.8	1349.8	891.4	572.5	405.6	323.2	289.4	279.9	285.2	286.2
62.5°	2236.0	1955.1	1345.6	850.3	520.7	360.2	288.3	264.1	257.7	268.3	269.3
65°	2285.7	1968.8	1316.0	791.1	464.7	315.8	255.6	229.2	226.0	232.4	235.5
67.5°	2220.2	1883.2	1235.8	709.8	402.4	274.6	223.9	202.8	197.5	202.8	202.8
70°	1967.7	1631.9	1045.7	580.9	333.8	234.5	194.3	179.6	175.3	179.6	178.5
72.5°	1639.3	1357.2	823.9	453.1	263.0	197.5	169.0	155.3	151.0	146.8	144.7
75°	1271.7	1030.9	597.8	332.7	198.6	158.4	141.5	128.9	118.3	122.5	120.4
77.5°	931.6	723.5	423.5	230.3	142.6	122.5	110.9	101.4	94.0	102.5	101.4
80°	599.9	467.9	283.1	154.2	98.2	85.6	81.3	76.0	83.4	108.8	110.9
82.5°	366.5	296.8	169.0	100.3	64.4	57.0	52.8	52.8	85.6	94.0	95.1
85°	163.7	157.4	91.9	51.8	35.9	32.7	29.6	38.0	34.9	25.3	26.4
87.5°	26.4	27.5	20.1	18.0	13.7	13.7	10.6	7.4	5.3	3.2	3.2
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)