

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: P798869

Luminaire Tested: **ARCH1-40-730-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798869
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: ARCH1-40-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5588 lumens
Efficiency: N/A
Efficacy: 130.0 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

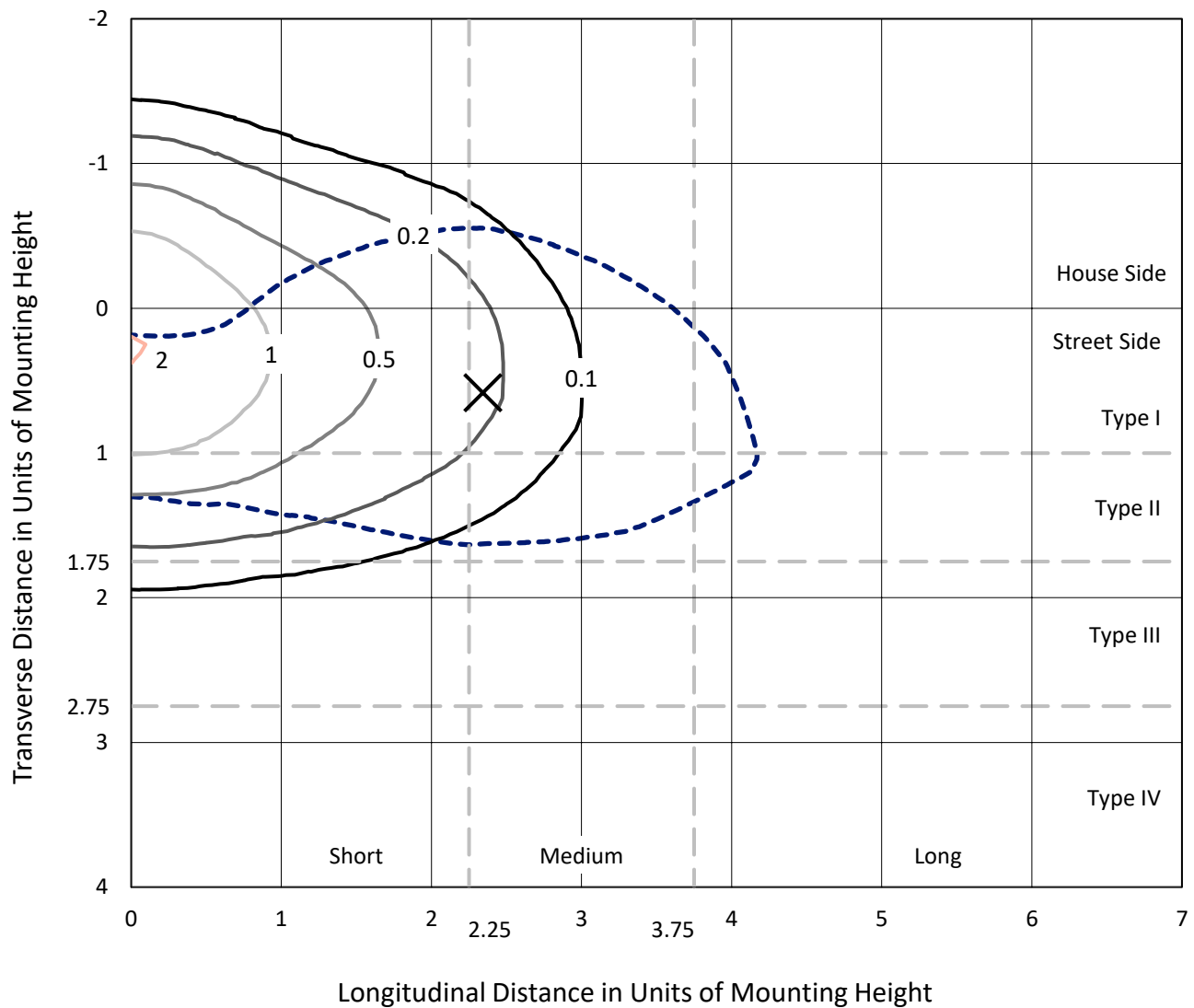


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Iso-Footcandle Lines of Horizontal Illumination

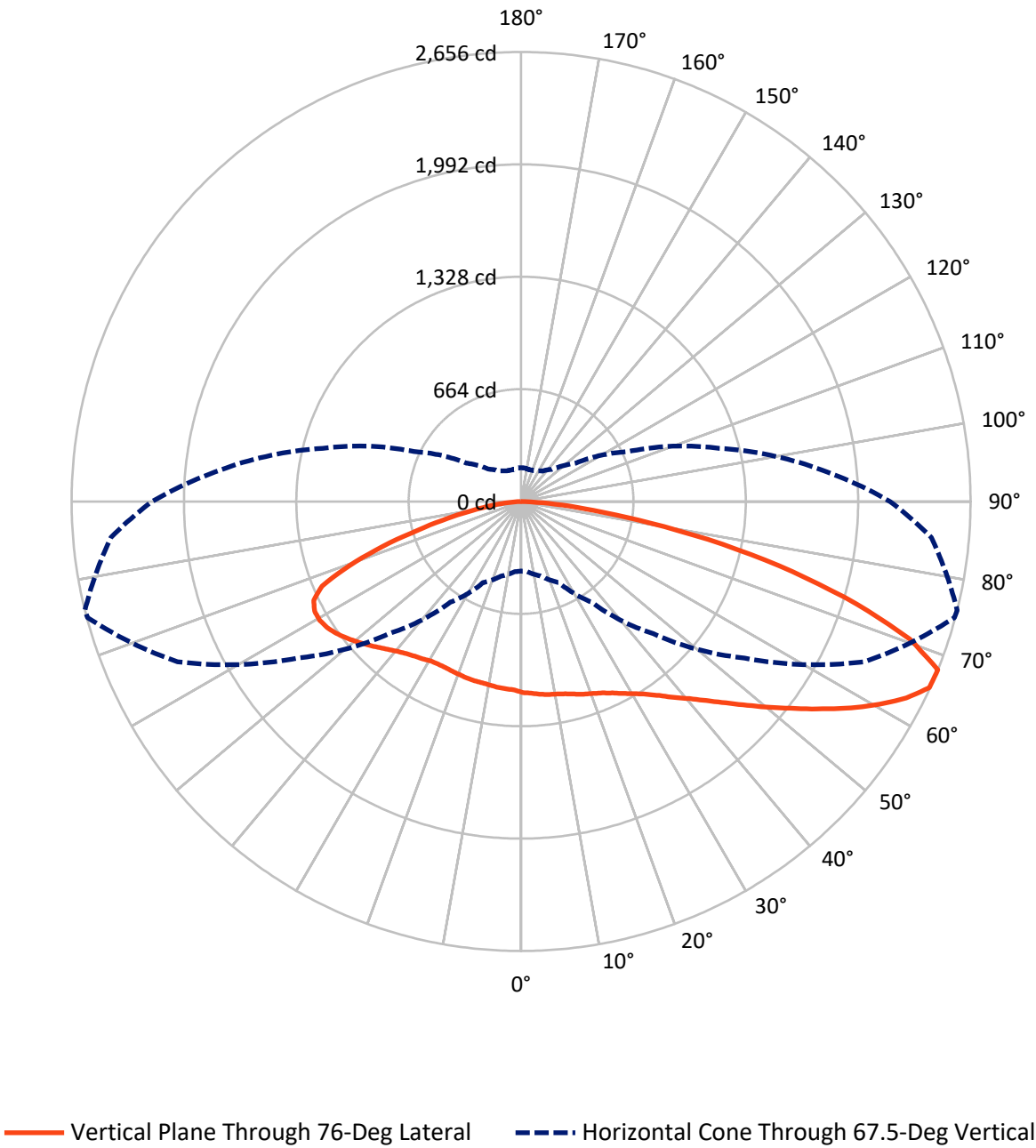
✕ Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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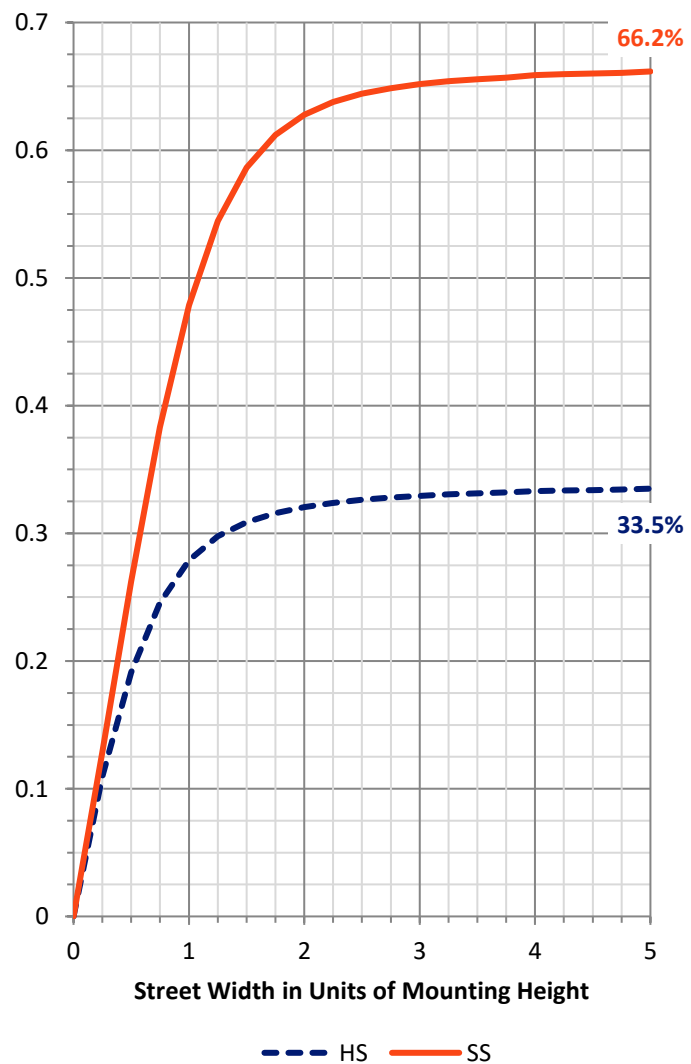
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1888.2	0.0	1888.2
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	3699.8	0.0	3699.8
	% Fixture	66.2	0.0	66.2
Total	Lumens	5588.0	0.0	5588.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	1.9
10°-20°	332.8	6.0
20°-30°	565.4	10.1
30°-40°	804.4	14.4
40°-50°	1016.0	18.2
50°-60°	1100.0	19.7
60°-70°	1023.1	18.3
70°-80°	549.5	9.8
80°-90°	88.0	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°	5588.0	100.0
0°-180°	5588.0	100.0

Coefficient of Utilization



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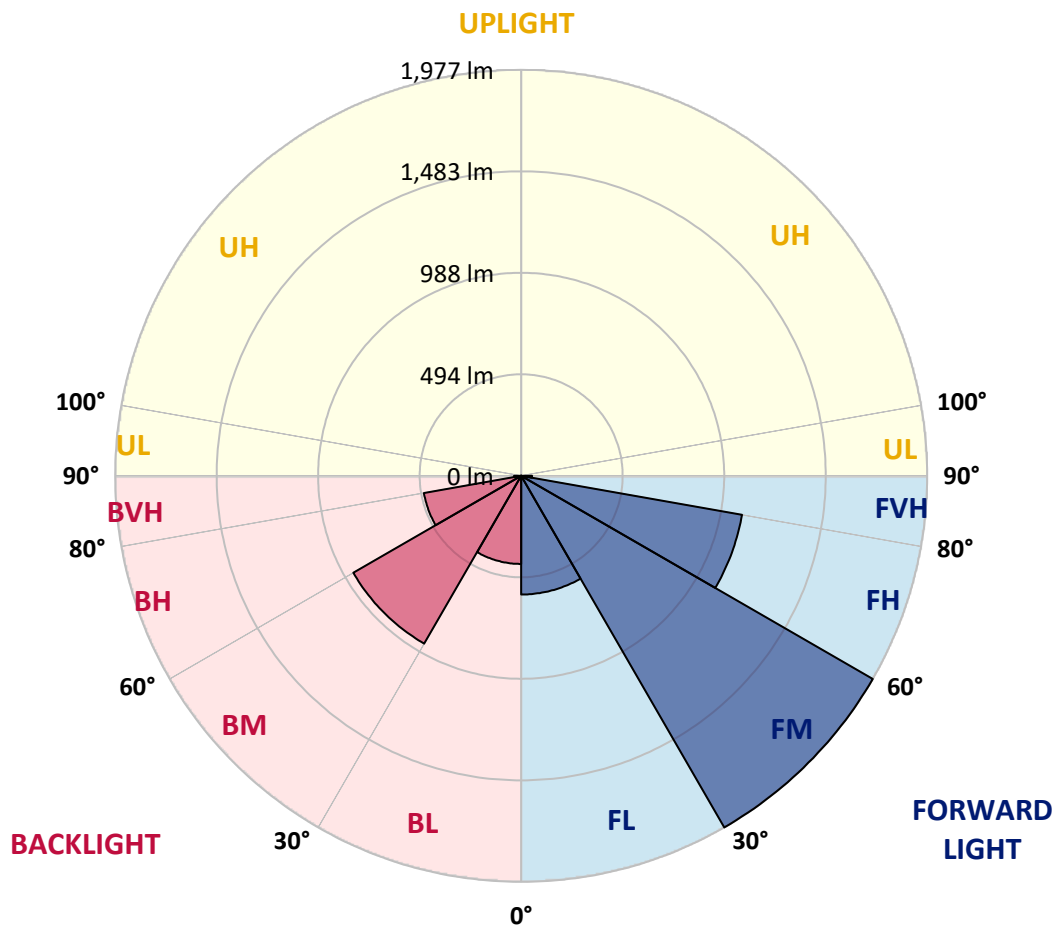
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	577.9	10.3			
FM	(30°-60°)	1976.8	35.4			
FH	(60°-80°)	1091.8	19.5			G1/1800
FVH	(80°-90°)	53.3	1.0			G1/100
BL	(0°-30°)	429.1	7.7	B1/500		
BM	(30°-60°)	943.6	16.9	B1/1000		
BH	(60°-80°)	480.8	8.6	B1/500		G1/500
BVH	(80°-90°)	34.8	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°	1128.8	1128.8	1128.8	1128.8	1128.8	1128.8	1128.8	1128.8	1128.8	1128.8	1128.8
2.5°	1163.0	1160.9	1152.6	1153.7	1153.7	1152.6	1140.2	1135.0	1135.0	1134.0	1122.5
5°	1204.5	1201.4	1192.0	1190.0	1185.8	1180.6	1160.9	1149.5	1144.3	1143.3	1127.7
7.5°	1253.3	1249.1	1237.7	1231.5	1221.1	1207.6	1182.7	1165.1	1152.6	1151.6	1129.8
10°	1302.0	1297.9	1284.4	1273.0	1258.4	1236.7	1204.5	1178.6	1158.9	1156.8	1130.8
12.5°	1360.1	1356.0	1339.4	1324.8	1303.1	1274.0	1231.5	1196.2	1169.2	1166.1	1134.0
15°	1421.3	1415.1	1398.5	1381.9	1354.9	1317.6	1266.7	1220.1	1185.8	1180.6	1143.3
17.5°	1472.2	1463.9	1450.4	1433.8	1403.7	1360.1	1302.0	1243.9	1201.4	1197.2	1152.6
20°	1515.7	1509.5	1495.0	1479.4	1447.3	1399.5	1335.2	1267.8	1215.9	1210.7	1159.9
22.5°	1557.2	1548.9	1540.6	1529.2	1494.0	1441.0	1373.6	1296.8	1234.6	1228.4	1169.2
25°	1605.0	1595.6	1592.5	1586.3	1544.8	1490.8	1420.3	1333.1	1260.5	1253.3	1185.8
27.5°	1664.1	1653.7	1647.5	1647.5	1597.7	1541.7	1470.1	1375.7	1290.6	1284.4	1206.6
30°	1726.3	1713.9	1704.6	1704.6	1648.5	1592.5	1518.9	1418.2	1324.8	1317.6	1233.5
32.5°	1781.3	1768.9	1758.5	1757.5	1699.4	1643.3	1569.7	1464.9	1366.3	1357.0	1266.7
35°	1823.9	1812.5	1803.1	1805.2	1750.2	1695.2	1626.7	1527.2	1418.2	1407.8	1310.3
37.5°	1849.8	1845.7	1840.5	1847.7	1796.9	1745.0	1685.9	1587.3	1477.4	1468.0	1364.3
40°	1863.3	1860.2	1880.9	1890.3	1836.3	1789.6	1745.0	1649.6	1541.7	1531.3	1426.5
42.5°	1883.0	1908.9	1917.2	1915.2	1865.4	1823.9	1799.0	1717.0	1617.4	1608.1	1501.2
45°	1812.5	1806.2	1851.9	1876.8	1867.4	1845.7	1849.8	1797.9	1705.6	1696.3	1587.3
47.5°	1718.0	1709.7	1735.7	1796.9	1833.2	1854.0	1895.5	1882.0	1807.3	1799.0	1688.0
50°	1518.9	1530.3	1626.7	1708.7	1780.3	1851.9	1933.8	1972.2	1919.3	1911.0	1795.9
52.5°	1297.9	1309.3	1409.9	1598.7	1716.0	1836.3	1961.8	2062.5	2040.7	2031.4	1911.0
55°	1137.1	1162.0	1276.1	1413.0	1624.7	1787.6	1978.4	2154.8	2171.4	2163.1	2036.5
57.5°	977.3	996.0	1082.1	1203.5	1500.2	1702.5	1977.4	2240.9	2308.4	2300.1	2164.2
60°	789.5	813.4	881.8	1012.6	1334.2	1600.8	1948.4	2308.4	2440.1	2433.9	2287.6
62.5°	660.9	668.1	716.9	830.0	1120.5	1472.2	1883.0	2344.7	2559.4	2555.3	2398.6
65°	532.2	533.3	577.9	672.3	914.0	1312.4	1772.0	2331.2	2649.7	2651.8	2478.5
67.5°	410.8	416.0	456.5	528.1	726.2	1104.9	1613.3	2239.9	2650.7	2655.9	2432.9
70°	284.3	288.4	349.6	419.1	561.3	880.8	1398.5	1998.2	2432.9	2437.0	2180.8
72.5°	200.2	202.3	267.7	335.1	438.8	664.0	1055.1	1652.7	2073.9	2077.0	1834.2
75°	149.4	151.5	188.8	254.2	336.1	459.6	721.0	1265.7	1656.8	1656.8	1448.3
77.5°	105.8	106.9	122.4	175.3	224.1	310.2	433.7	828.9	1215.9	1218.0	1055.1
80°	71.6	72.6	79.9	118.3	140.1	168.1	235.5	434.7	766.7	769.8	670.2
82.5°	37.3	39.4	44.6	60.2	70.5	93.4	121.4	221.0	424.3	432.6	402.5
85°	14.5	14.5	16.6	19.7	25.9	36.3	56.0	84.0	191.9	198.2	177.4
87.5°	5.2	5.2	6.2	6.2	7.3	8.3	9.3	12.4	21.8	21.8	20.7
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°	1128.8	1128.8	1128.8	1128.8	1128.8	1128.8	1128.8	1128.8	1128.8	1128.8	1128.8
2.5°	1118.4	1118.4	1113.2	1115.3	1114.2	1112.2	1110.1	1113.2	1110.1	1102.8	1101.8
5°	1120.5	1118.4	1110.1	1109.1	1105.9	1101.8	1096.6	1098.7	1093.5	1087.3	1086.2
7.5°	1121.5	1117.4	1105.9	1101.8	1095.6	1087.3	1079.0	1079.0	1071.7	1065.5	1064.4
10°	1119.4	1114.2	1098.7	1090.4	1079.0	1066.5	1055.1	1052.0	1043.7	1036.4	1036.4
12.5°	1120.5	1113.2	1093.5	1080.0	1064.4	1048.9	1034.4	1030.2	1022.9	1015.7	1014.6
15°	1126.7	1116.3	1091.4	1073.8	1051.0	1033.3	1017.8	1014.6	1008.4	1003.2	1003.2
17.5°	1132.9	1119.4	1088.3	1063.4	1035.4	1015.7	1001.2	1001.2	997.0	993.9	993.9
20°	1136.0	1120.5	1082.1	1048.9	1016.7	996.0	982.5	984.6	983.5	982.5	982.5
22.5°	1143.3	1122.5	1076.9	1035.4	997.0	975.2	962.8	965.9	964.8	964.8	965.9
25°	1154.7	1127.7	1072.7	1022.9	978.3	954.5	941.0	943.1	943.1	943.1	943.1
27.5°	1170.3	1138.1	1071.7	1011.5	959.7	932.7	916.1	916.1	911.9	913.0	914.0
30°	1194.1	1157.8	1073.8	1001.2	939.9	905.7	886.0	882.9	881.8	883.9	885.0
32.5°	1223.2	1184.8	1086.2	993.9	919.2	875.6	850.7	849.7	846.6	846.6	846.6
35°	1259.5	1210.7	1097.6	992.9	898.4	843.5	816.5	813.4	806.1	803.0	803.0
37.5°	1306.2	1251.2	1111.1	985.6	880.8	812.3	780.2	769.8	761.5	760.5	760.5
40°	1363.2	1296.8	1130.8	977.3	862.1	780.2	737.6	720.0	721.0	725.2	725.2
42.5°	1430.7	1352.9	1155.7	973.1	835.2	747.0	687.8	667.1	674.4	678.5	679.5
45°	1509.5	1419.3	1183.7	968.0	810.3	709.6	634.9	609.0	612.1	613.1	614.2
47.5°	1600.8	1492.9	1212.8	963.8	782.2	662.9	576.8	542.6	541.6	535.3	537.4
50°	1696.3	1570.7	1242.9	956.5	748.0	608.0	515.6	475.2	466.9	457.5	458.6
52.5°	1797.9	1650.6	1270.9	945.1	705.5	551.9	457.5	413.9	397.3	387.0	389.0
55°	1910.0	1732.6	1297.9	927.5	660.9	495.9	405.6	361.0	340.3	332.0	333.0
57.5°	2012.7	1811.4	1317.6	905.7	612.1	445.1	360.0	316.4	302.9	301.9	302.9
60°	2112.3	1877.8	1325.9	875.6	562.3	398.4	317.5	284.3	274.9	280.1	281.2
62.5°	2196.3	1920.4	1321.7	835.2	511.5	353.8	283.2	259.4	253.1	263.5	264.6
65°	2245.1	1933.8	1292.7	777.1	456.5	310.2	251.1	225.1	222.0	228.2	231.4
67.5°	2180.8	1849.8	1213.8	697.2	395.3	269.7	219.9	199.2	194.0	199.2	199.2
70°	1932.8	1602.9	1027.1	570.6	327.8	230.3	190.9	176.4	172.2	176.4	175.3
72.5°	1610.1	1333.1	809.2	445.1	258.3	194.0	166.0	152.5	148.4	144.2	142.1
75°	1249.1	1012.6	587.2	326.8	195.0	155.6	139.0	126.6	116.2	120.3	118.3
77.5°	915.0	710.7	416.0	226.2	140.1	120.3	108.9	99.6	92.3	100.6	99.6
80°	589.3	459.6	278.0	151.5	96.5	84.0	79.9	74.7	82.0	106.9	108.9
82.5°	360.0	291.5	166.0	98.6	63.3	56.0	51.9	51.9	84.0	92.3	93.4
85°	160.8	154.6	90.3	50.8	35.3	32.2	29.0	37.3	34.2	24.9	25.9
87.5°	25.9	27.0	19.7	17.6	13.5	13.5	10.4	7.3	5.2	3.1	3.1
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)