

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: P799621

Luminaire Tested: **ARCH2-40-727-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799621
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: ARCH2-40-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6236 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

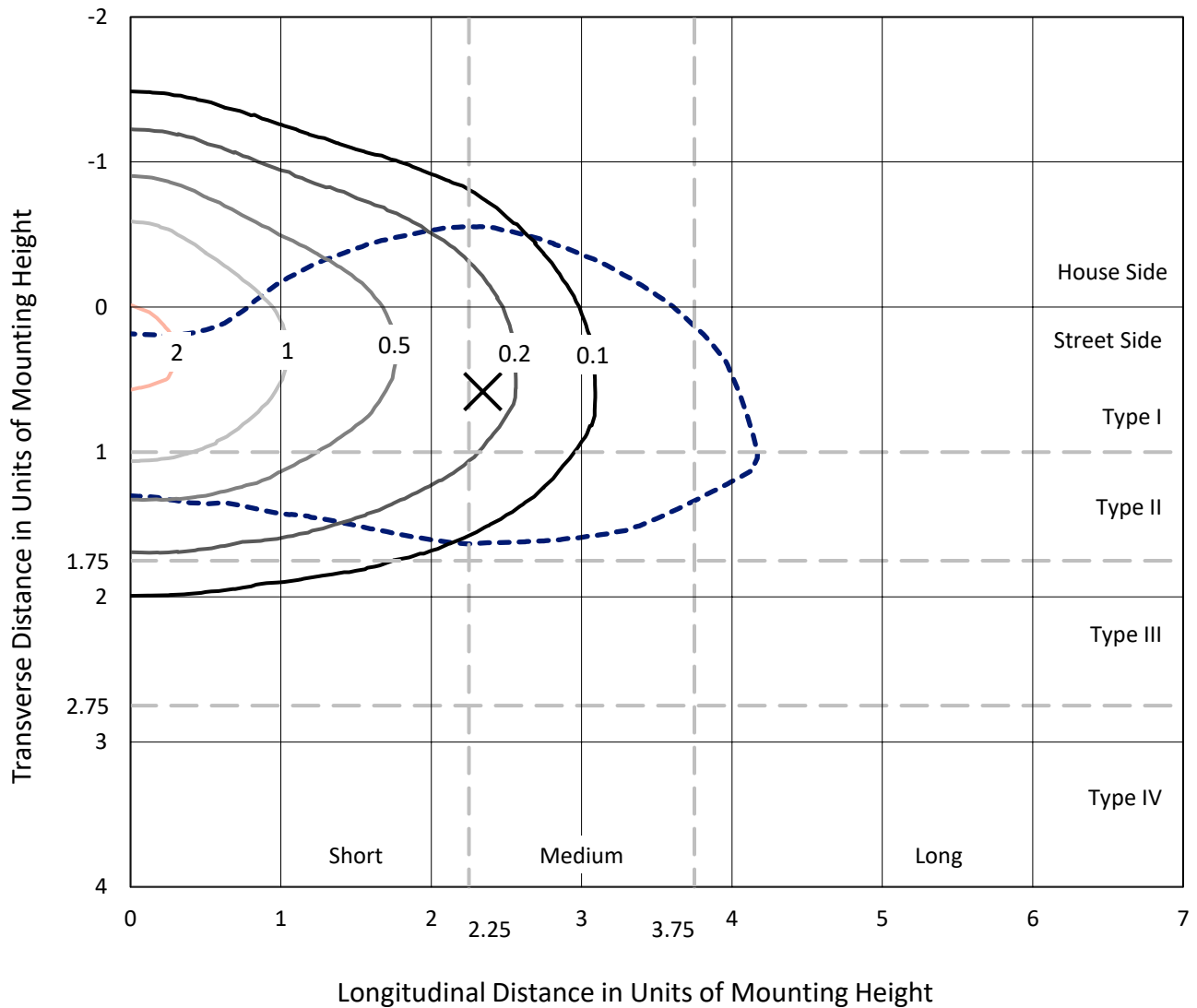
Input Watts (W): 44.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

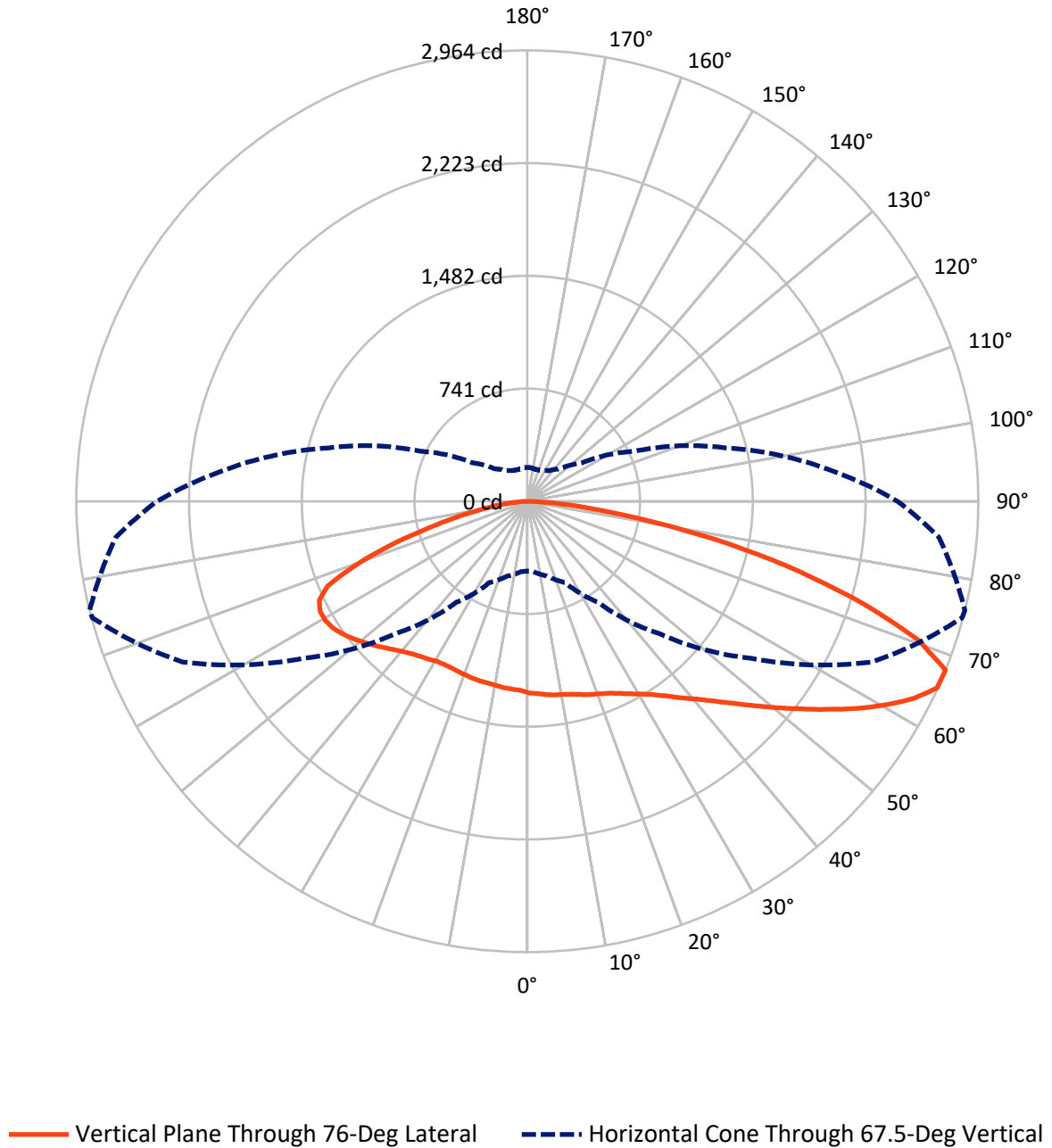
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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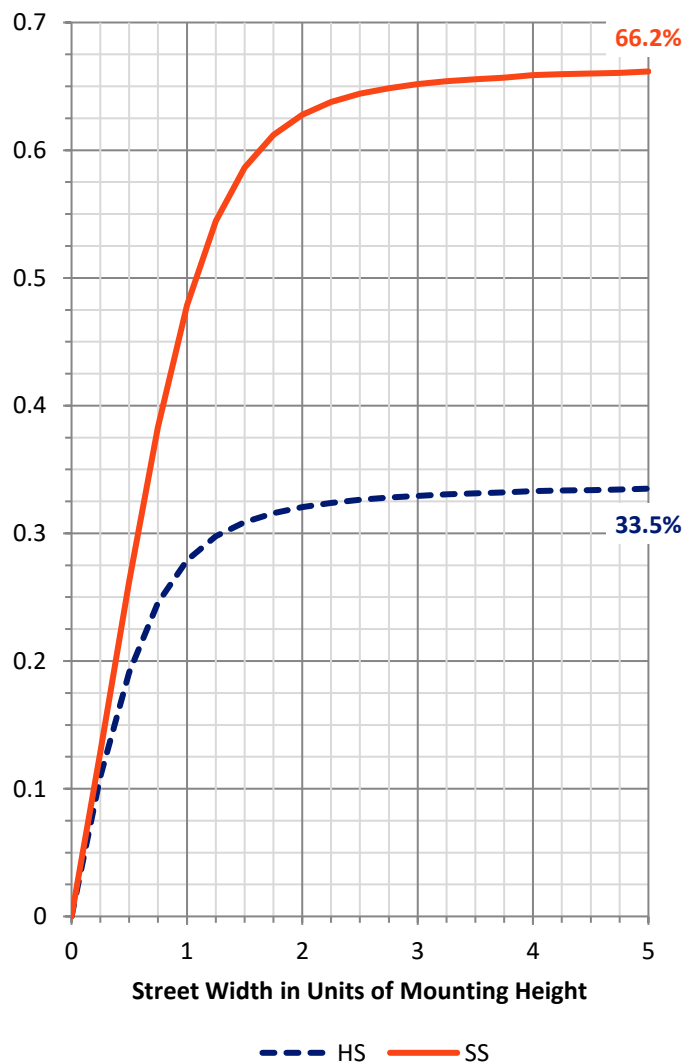
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2107.2	0.0	2107.2
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	4128.8	0.0	4128.8
	% Fixture	66.2	0.0	66.2
Total	Lumens	6236.0	0.0	6236.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	1.9
10°-20°	371.3	6.0
20°-30°	630.9	10.1
30°-40°	897.7	14.4
40°-50°	1133.8	18.2
50°-60°	1227.5	19.7
60°-70°	1141.7	18.3
70°-80°	613.2	9.8
80°-90°	98.3	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°	6236.0	100.0
0°-180°	6236.0	100.0

Coefficient of Utilization



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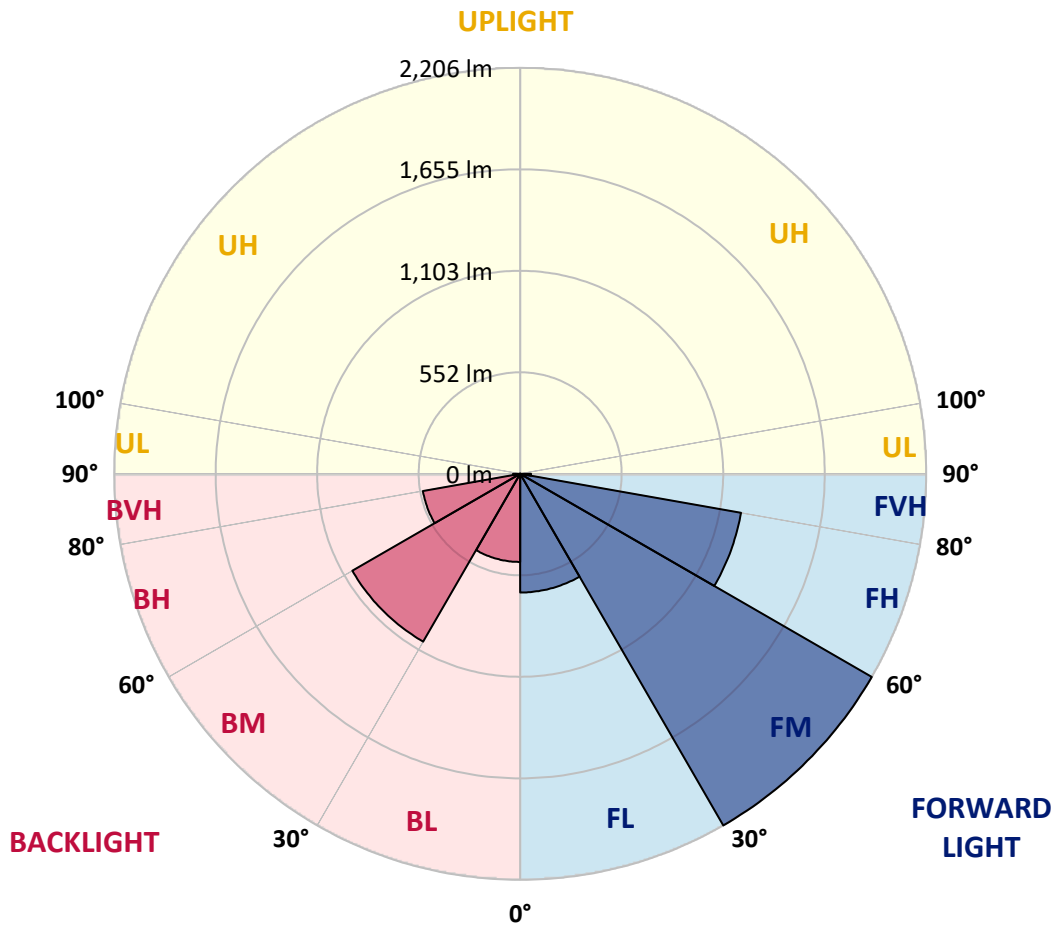
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	644.9	10.3			
FM (30°-60°)	2206.1	35.4			
FH (60°-80°)	1218.5	19.5			G1/1800
FVH (80°-90°)	59.4	1.0			G1/100
BL (0°-30°)	478.9	7.7	B1/500		
BM (30°-60°)	1053.0	16.9	B2/2500		
BH (60°-80°)	536.5	8.6	B2/1000		G2/1000
BVH (80°-90°)	38.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7
2.5°	1297.9	1295.5	1286.3	1287.4	1287.4	1286.3	1272.4	1266.6	1266.6	1265.4	1252.7
5°	1344.2	1340.7	1330.3	1328.0	1323.3	1317.5	1295.5	1282.8	1277.0	1275.9	1258.5
7.5°	1398.6	1394.0	1381.2	1374.3	1362.7	1347.6	1319.9	1300.2	1286.3	1285.1	1260.8
10°	1453.0	1448.4	1433.3	1420.6	1404.4	1380.1	1344.2	1315.2	1293.2	1290.9	1262.0
12.5°	1517.8	1513.2	1494.7	1478.5	1454.2	1421.7	1374.3	1334.9	1304.8	1301.3	1265.4
15°	1586.2	1579.2	1560.7	1542.2	1512.1	1470.4	1413.6	1361.5	1323.3	1317.5	1275.9
17.5°	1642.9	1633.6	1618.6	1600.0	1566.5	1517.8	1453.0	1388.2	1340.7	1336.1	1286.3
20°	1691.5	1684.6	1668.4	1651.0	1615.1	1561.8	1490.1	1414.8	1356.9	1351.1	1294.4
22.5°	1737.8	1728.6	1719.3	1706.6	1667.2	1608.1	1532.9	1447.2	1377.8	1370.8	1304.8
25°	1791.1	1780.7	1777.2	1770.2	1723.9	1663.7	1585.0	1487.7	1406.7	1398.6	1323.3
27.5°	1857.1	1845.5	1838.5	1838.5	1783.0	1720.5	1640.6	1535.2	1440.3	1433.3	1346.5
30°	1926.5	1912.6	1902.2	1902.2	1839.7	1777.2	1695.0	1582.7	1478.5	1470.4	1376.6
32.5°	1987.9	1974.0	1962.4	1961.3	1896.4	1833.9	1751.7	1634.8	1524.8	1514.4	1413.6
35°	2035.4	2022.6	2012.2	2014.5	1953.2	1891.8	1815.4	1704.2	1582.7	1571.1	1462.3
37.5°	2064.3	2059.7	2053.9	2062.0	2005.3	1947.4	1881.4	1771.4	1648.7	1638.3	1522.5
40°	2079.4	2075.9	2099.0	2109.5	2049.3	1997.2	1947.4	1840.9	1720.5	1708.9	1591.9
42.5°	2101.4	2130.3	2139.6	2137.3	2081.7	2035.4	2007.6	1916.1	1805.0	1794.5	1675.3
45°	2022.6	2015.7	2066.6	2094.4	2084.0	2059.7	2064.3	2006.4	1903.4	1893.0	1771.4
47.5°	1917.3	1908.0	1937.0	2005.3	2045.8	2068.9	2115.3	2100.2	2016.8	2007.6	1883.7
50°	1695.0	1707.7	1815.4	1906.9	1986.7	2066.6	2158.1	2200.9	2141.9	2132.6	2004.1
52.5°	1448.4	1461.1	1573.4	1784.1	1915.0	2049.3	2189.4	2301.7	2277.3	2266.9	2132.6
55°	1268.9	1296.7	1424.1	1576.9	1813.1	1994.8	2207.9	2404.7	2423.2	2414.0	2272.7
57.5°	1090.6	1111.5	1207.6	1343.0	1674.1	1899.9	2206.7	2500.8	2576.0	2566.8	2415.1
60°	881.1	907.7	984.1	1130.0	1488.9	1786.4	2174.3	2576.0	2723.1	2716.1	2552.9
62.5°	737.5	745.6	800.0	926.2	1250.4	1642.9	2101.4	2616.6	2856.2	2851.6	2676.8
65°	593.9	595.1	644.9	750.2	1020.0	1464.6	1977.5	2601.5	2957.0	2959.3	2765.9
67.5°	458.5	464.3	509.4	589.3	810.4	1233.0	1800.3	2499.6	2958.1	2963.9	2715.0
70°	317.2	321.9	390.2	467.7	626.4	983.0	1560.7	2229.9	2715.0	2719.6	2433.6
72.5°	223.5	225.8	298.7	374.0	489.7	741.0	1177.5	1844.3	2314.4	2317.9	2046.9
75°	166.7	169.0	210.7	283.7	375.1	512.9	804.7	1412.5	1849.0	1849.0	1616.3
77.5°	118.1	119.3	136.6	195.7	250.1	346.2	483.9	925.1	1356.9	1359.2	1177.5
80°	79.9	81.0	89.1	132.0	156.3	187.6	262.8	485.1	855.6	859.1	747.9
82.5°	41.7	44.0	49.8	67.2	78.7	104.2	135.5	246.6	473.5	482.8	449.2
85°	16.2	16.2	18.5	22.0	28.9	40.5	62.5	93.8	214.2	221.1	198.0
87.5°	5.8	5.8	6.9	6.9	8.1	9.3	10.4	13.9	24.3	24.3	23.2
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°	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7
2.5°	1248.1	1248.1	1242.3	1244.6	1243.4	1241.1	1238.8	1242.3	1238.8	1230.7	1229.6
5°	1250.4	1248.1	1238.8	1237.7	1234.2	1229.6	1223.8	1226.1	1220.3	1213.3	1212.2
7.5°	1251.6	1246.9	1234.2	1229.6	1222.6	1213.3	1204.1	1204.1	1196.0	1189.0	1187.9
10°	1249.2	1243.4	1226.1	1216.8	1204.1	1190.2	1177.5	1174.0	1164.7	1156.6	1156.6
12.5°	1250.4	1242.3	1220.3	1205.2	1187.9	1170.5	1154.3	1149.7	1141.6	1133.5	1132.3
15°	1257.3	1245.8	1218.0	1198.3	1172.8	1153.1	1135.8	1132.3	1125.4	1119.6	1119.6
17.5°	1264.3	1249.2	1214.5	1186.7	1155.5	1133.5	1117.3	1117.3	1112.6	1109.1	1109.1
20°	1267.8	1250.4	1207.6	1170.5	1134.6	1111.5	1096.4	1098.7	1097.6	1096.4	1096.4
22.5°	1275.9	1252.7	1201.8	1155.5	1112.6	1088.3	1074.4	1077.9	1076.7	1076.7	1077.9
25°	1288.6	1258.5	1197.1	1141.6	1091.8	1065.2	1050.1	1052.4	1052.4	1052.4	1052.4
27.5°	1306.0	1270.1	1196.0	1128.8	1070.9	1040.8	1022.3	1022.3	1017.7	1018.8	1020.0
30°	1332.6	1292.1	1198.3	1117.3	1048.9	1010.7	988.7	985.3	984.1	986.4	987.6
32.5°	1365.0	1322.2	1212.2	1109.1	1025.8	977.2	949.4	948.2	944.7	944.7	944.7
35°	1405.5	1351.1	1224.9	1108.0	1002.6	941.3	911.2	907.7	899.6	896.1	896.1
37.5°	1457.6	1396.3	1240.0	1099.9	983.0	906.5	870.6	859.1	849.8	848.6	848.6
40°	1521.3	1447.2	1262.0	1090.6	962.1	870.6	823.2	803.5	804.7	809.3	809.3
42.5°	1596.6	1509.7	1289.8	1086.0	932.0	833.6	767.6	744.4	752.6	757.2	758.3
45°	1684.6	1583.8	1321.0	1080.2	904.2	791.9	708.6	679.6	683.1	684.2	685.4
47.5°	1786.4	1666.0	1353.4	1075.6	873.0	739.8	643.7	605.5	604.4	597.4	599.7
50°	1893.0	1752.9	1387.0	1067.5	834.8	678.5	575.4	530.3	521.0	510.6	511.7
52.5°	2006.4	1842.0	1418.3	1054.7	787.3	615.9	510.6	462.0	443.4	431.8	434.2
55°	2131.5	1933.5	1448.4	1035.1	737.5	553.4	452.7	402.9	379.7	370.5	371.6
57.5°	2246.1	2021.5	1470.4	1010.7	683.1	496.7	401.7	353.1	338.1	336.9	338.1
60°	2357.2	2095.6	1479.6	977.2	627.5	444.6	354.3	317.2	306.8	312.6	313.8
62.5°	2451.0	2143.0	1475.0	932.0	570.8	394.8	316.1	289.4	282.5	294.1	295.2
65°	2505.4	2158.1	1442.6	867.2	509.4	346.2	280.2	251.2	247.8	254.7	258.2
67.5°	2433.6	2064.3	1354.6	778.0	441.1	301.0	245.4	222.3	216.5	222.3	222.3
70°	2156.9	1788.8	1146.2	636.8	365.9	257.0	213.0	196.8	192.2	196.8	195.7
72.5°	1796.9	1487.7	903.1	496.7	288.3	216.5	185.2	170.2	165.6	160.9	158.6
75°	1394.0	1130.0	655.3	364.7	217.7	173.7	155.1	141.2	129.7	134.3	132.0
77.5°	1021.2	793.1	464.3	252.4	156.3	134.3	121.6	111.1	103.0	112.3	111.1
80°	657.6	512.9	310.3	169.0	107.7	93.8	89.1	83.4	91.5	119.3	121.6
82.5°	401.7	325.3	185.2	110.0	70.6	62.5	57.9	57.9	93.8	103.0	104.2
85°	179.5	172.5	100.7	56.7	39.4	35.9	32.4	41.7	38.2	27.8	28.9
87.5°	28.9	30.1	22.0	19.7	15.1	15.1	11.6	8.1	5.8	3.5	3.5
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)