

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: P836525

Luminaire Tested: **ARCH3-40-722-U-T2U**

Issue Date: 5/16/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P836525  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH3-40-722-U-T2U  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

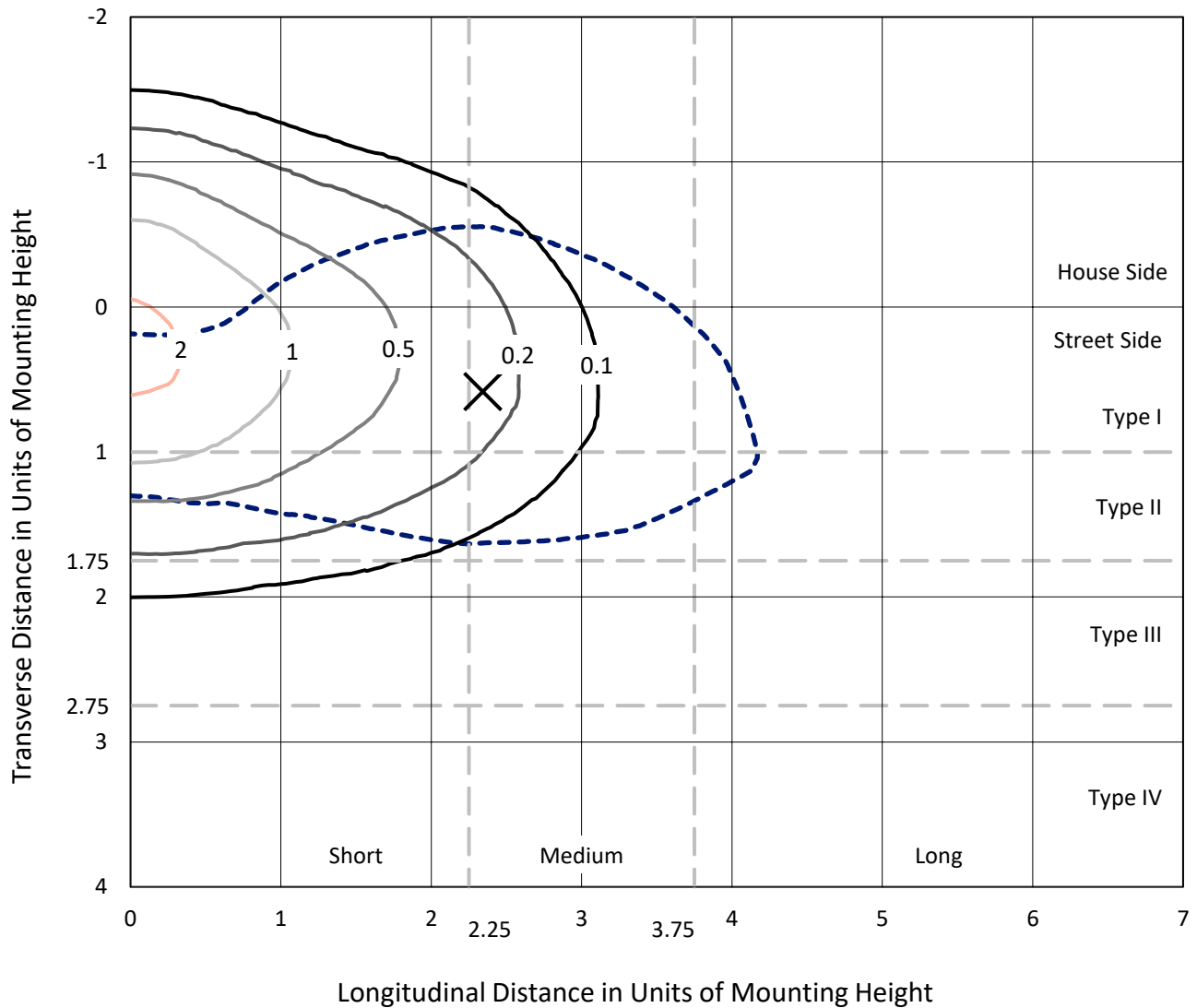
Lumens per Lamp: N/A  
Luminaire Lumens: 6402 lumens  
Efficiency: N/A  
Efficacy: 146.8 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 43.6  
Input Voltage (V): NR  
Input Current (Ain): 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

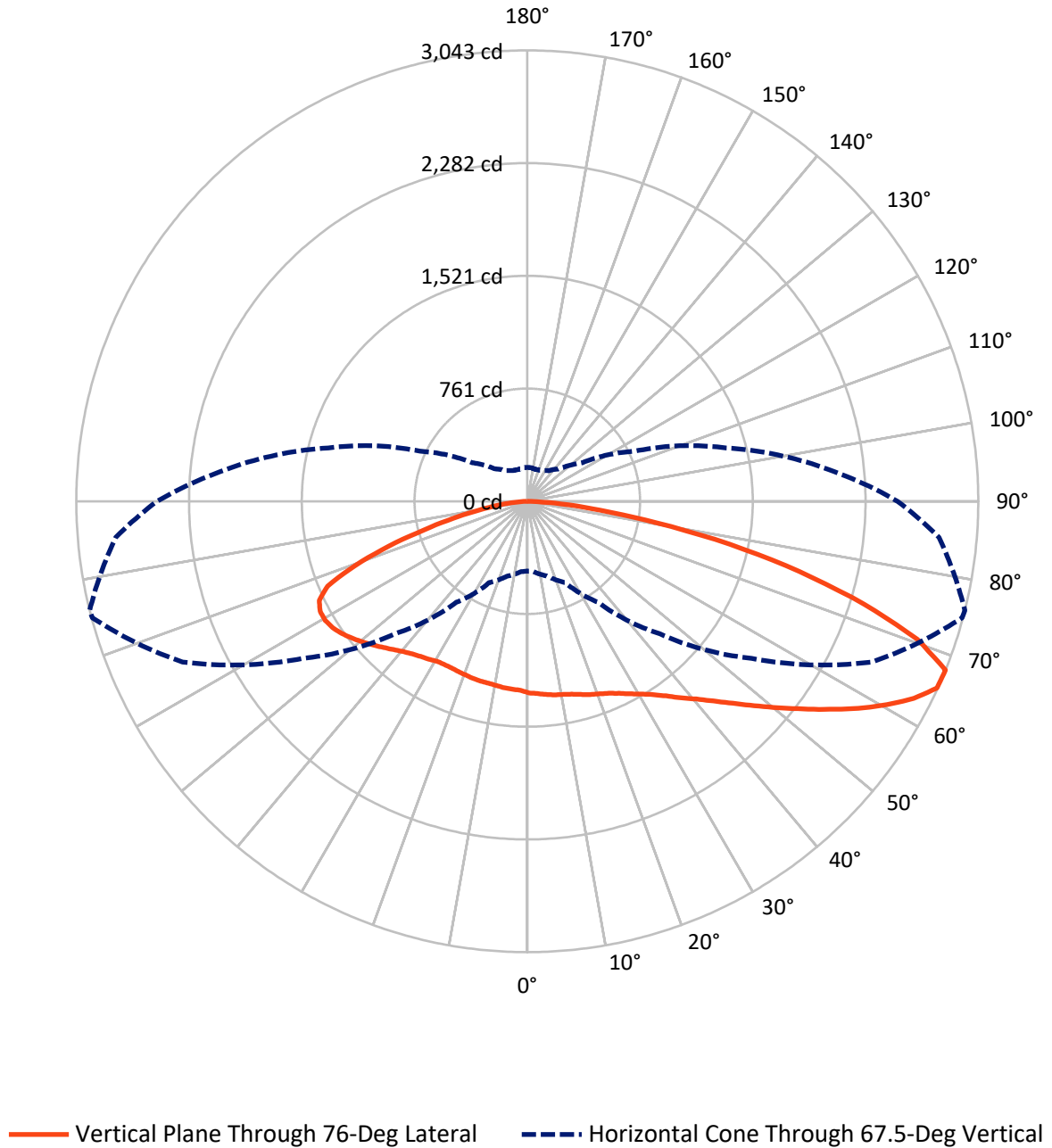
✕ Max cd  
 - - - 1/2 Max cd



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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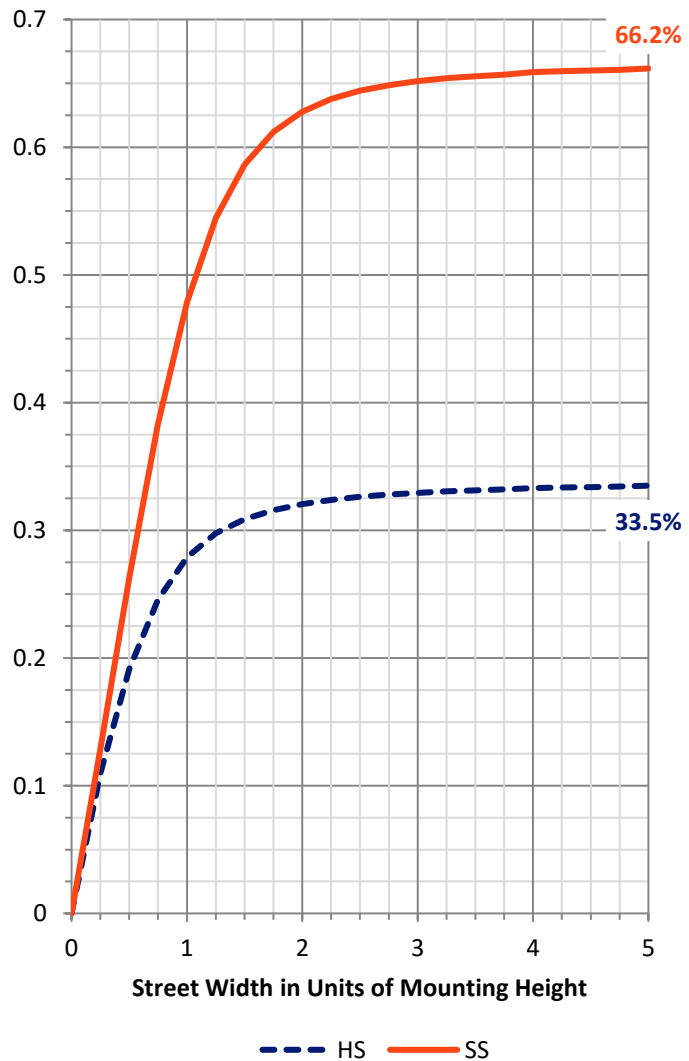
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2163.3	0.0	2163.3
	% Fixture	33.8	0.0	33.8
<b>Street Side</b>	Lumens	4238.7	0.0	4238.7
	% Fixture	66.2	0.0	66.2
<b>Total</b>	Lumens	6402.0	0.0	6402.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.7	1.9
10°-20°	381.2	6.0
20°-30°	647.7	10.1
30°-40°	921.6	14.4
40°-50°	1164.0	18.2
50°-60°	1260.2	19.7
60°-70°	1172.1	18.3
70°-80°	629.5	9.8
80°-90°	100.9	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°	6402.0	100.0
0°-180°	6402.0	100.0

**Coefficient of Utilization**



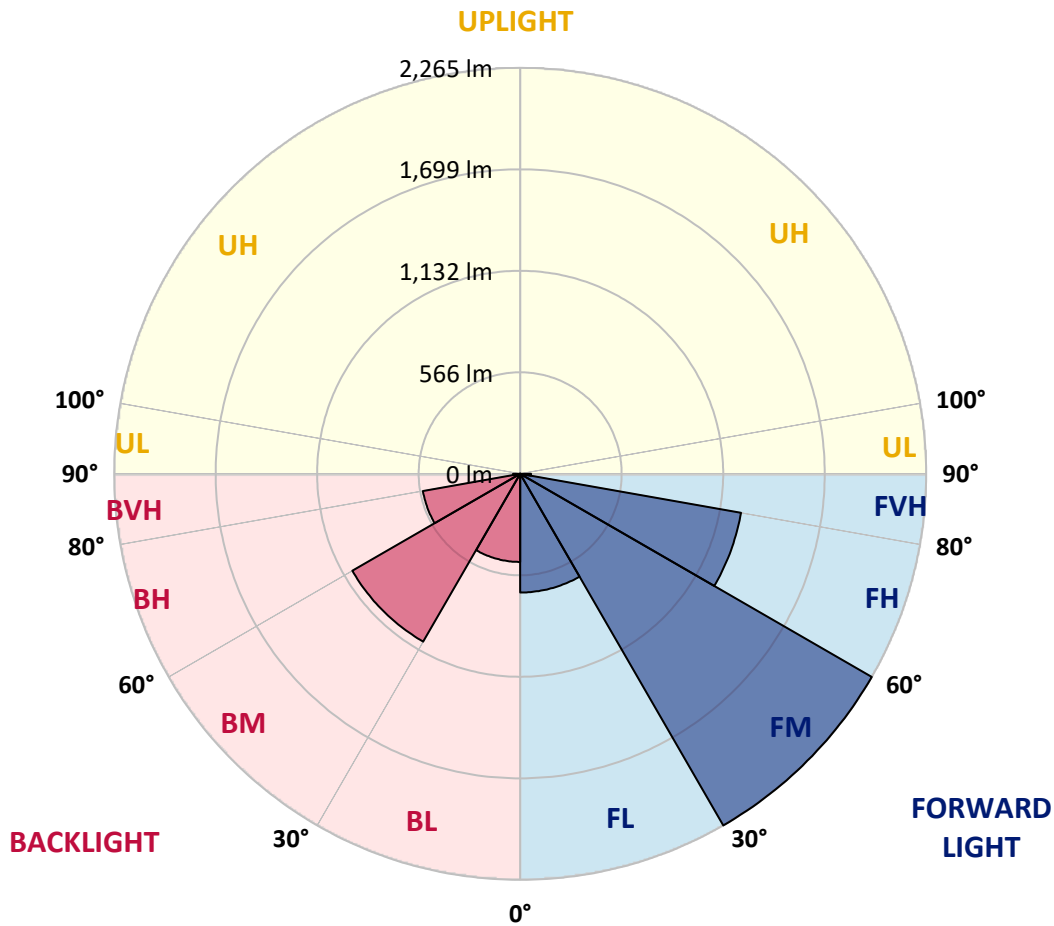
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	662.0	10.3			
FM (30°-60°)	2264.8	35.4			
FH (60°-80°)	1250.9	19.5			G1/1800
FVH (80°-90°)	61.0	1.0			G1/100
BL (0°-30°)	491.6	7.7	B1/500		
BM (30°-60°)	1081.0	16.9	B2/2500		
BH (60°-80°)	550.8	8.6	B2/1000		G2/1000
BVH (80°-90°)	39.9	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°	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2
2.5°	1332.4	1330.0	1320.5	1321.7	1321.7	1320.5	1306.3	1300.3	1300.3	1299.1	1286.1
5°	1380.0	1376.4	1365.7	1363.3	1358.6	1352.6	1330.0	1317.0	1311.0	1309.8	1292.0
7.5°	1435.8	1431.1	1418.0	1410.9	1399.0	1383.5	1355.0	1334.8	1320.5	1319.3	1294.4
10°	1491.7	1486.9	1471.5	1458.4	1441.8	1416.8	1380.0	1350.2	1327.7	1325.3	1295.6
12.5°	1558.2	1553.5	1534.5	1517.8	1492.9	1459.6	1410.9	1370.4	1339.5	1336.0	1299.1
15°	1628.4	1621.2	1602.2	1583.2	1552.3	1509.5	1451.3	1397.8	1358.6	1352.6	1309.8
17.5°	1686.6	1677.1	1661.7	1642.6	1608.2	1558.2	1491.7	1425.1	1376.4	1371.6	1320.5
20°	1736.5	1729.4	1712.8	1694.9	1658.1	1603.4	1529.7	1452.5	1393.0	1387.1	1328.8
22.5°	1784.1	1774.6	1765.1	1752.0	1711.6	1651.0	1573.7	1485.7	1414.4	1407.3	1339.5
25°	1838.8	1828.1	1824.5	1817.4	1769.8	1708.0	1627.2	1527.3	1444.1	1435.8	1358.6
27.5°	1906.5	1894.6	1887.5	1887.5	1830.4	1766.3	1684.2	1576.1	1478.6	1471.5	1382.3
30°	1977.8	1963.6	1952.9	1952.9	1888.7	1824.5	1740.1	1624.8	1517.8	1509.5	1413.2
32.5°	2040.8	2026.6	2014.7	2013.5	1946.9	1882.7	1798.3	1678.3	1565.4	1554.7	1451.3
35°	2089.5	2076.5	2065.8	2068.2	2005.2	1942.2	1863.7	1749.6	1624.8	1612.9	1501.2
37.5°	2119.3	2114.5	2108.6	2116.9	2058.6	1999.2	1931.5	1818.5	1692.6	1681.9	1563.0
40°	2134.7	2131.1	2154.9	2165.6	2103.8	2050.3	1999.2	1889.9	1766.3	1754.4	1634.3
42.5°	2157.3	2187.0	2196.5	2194.1	2137.1	2089.5	2061.0	1967.1	1853.0	1842.3	1719.9
45°	2076.5	2069.3	2121.6	2150.2	2139.5	2114.5	2119.3	2059.8	1954.0	1943.4	1818.5
47.5°	1968.3	1958.8	1988.5	2058.6	2100.2	2124.0	2171.6	2156.1	2070.5	2061.0	1933.8
50°	1740.1	1753.2	1863.7	1957.6	2039.6	2121.6	2215.5	2259.5	2198.9	2189.4	2057.5
52.5°	1486.9	1500.0	1615.3	1831.6	1965.9	2103.8	2247.6	2362.9	2338.0	2327.3	2189.4
55°	1302.7	1331.2	1462.0	1618.9	1861.3	2047.9	2266.6	2468.7	2487.7	2478.2	2333.2
57.5°	1119.7	1141.0	1239.7	1378.8	1718.7	1950.5	2265.5	2567.4	2644.6	2635.1	2479.4
60°	904.5	931.9	1010.3	1160.1	1528.5	1834.0	2232.2	2644.6	2795.6	2788.4	2620.8
62.5°	757.1	765.5	821.3	950.9	1283.7	1686.6	2157.3	2686.2	2932.3	2927.5	2748.0
65°	609.7	610.9	662.0	770.2	1047.2	1503.6	2030.1	2670.8	3035.7	3038.0	2839.6
67.5°	470.7	476.6	523.0	605.0	832.0	1265.9	1848.3	2566.2	3036.9	3042.8	2787.3
70°	325.7	330.4	400.6	480.2	643.0	1009.1	1602.2	2289.2	2787.3	2792.0	2498.4
72.5°	229.4	231.8	306.7	383.9	502.8	760.7	1208.8	1893.4	2376.0	2379.6	2101.4
75°	171.2	173.5	216.3	291.2	385.1	526.5	826.1	1450.1	1898.2	1898.2	1659.3
77.5°	121.2	122.4	140.3	200.9	256.7	355.4	496.8	949.7	1393.0	1395.4	1208.8
80°	82.0	83.2	91.5	135.5	160.5	192.6	269.8	498.0	878.4	881.9	767.8
82.5°	42.8	45.2	51.1	68.9	80.8	107.0	139.1	253.2	486.1	495.6	461.2
85°	16.6	16.6	19.0	22.6	29.7	41.6	64.2	96.3	219.9	227.0	203.2
87.5°	5.9	5.9	7.1	7.1	8.3	9.5	10.7	14.3	25.0	25.0	23.8
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°	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2	1293.2
2.5°	1281.3	1281.3	1275.4	1277.7	1276.5	1274.2	1271.8	1275.4	1271.8	1263.5	1262.3
5°	1283.7	1281.3	1271.8	1270.6	1267.0	1262.3	1256.3	1258.7	1252.8	1245.6	1244.5
7.5°	1284.9	1280.1	1267.0	1262.3	1255.2	1245.6	1236.1	1236.1	1227.8	1220.7	1219.5
10°	1282.5	1276.5	1258.7	1249.2	1236.1	1221.9	1208.8	1205.2	1195.7	1187.4	1187.4
12.5°	1283.7	1275.4	1252.8	1237.3	1219.5	1201.7	1185.0	1180.3	1172.0	1163.6	1162.4
15°	1290.8	1278.9	1250.4	1230.2	1204.0	1183.8	1166.0	1162.4	1155.3	1149.4	1149.4
17.5°	1297.9	1282.5	1246.8	1218.3	1186.2	1163.6	1147.0	1147.0	1142.2	1138.7	1138.7
20°	1301.5	1283.7	1239.7	1201.7	1164.8	1141.0	1125.6	1128.0	1126.8	1125.6	1125.6
22.5°	1309.8	1286.1	1233.8	1186.2	1142.2	1117.3	1103.0	1106.6	1105.4	1105.4	1106.6
25°	1322.9	1292.0	1229.0	1172.0	1120.8	1093.5	1078.1	1080.4	1080.4	1080.4	1080.4
27.5°	1340.7	1303.9	1227.8	1158.9	1099.4	1068.5	1049.5	1049.5	1044.8	1046.0	1047.2
30°	1368.1	1326.5	1230.2	1147.0	1076.9	1037.6	1015.1	1011.5	1010.3	1012.7	1013.9
32.5°	1401.4	1357.4	1244.5	1138.7	1053.1	1003.2	974.6	973.5	969.9	969.9	969.9
35°	1443.0	1387.1	1257.5	1137.5	1029.3	966.3	935.4	931.9	923.5	920.0	920.0
37.5°	1496.4	1433.4	1273.0	1129.2	1009.1	930.7	893.8	881.9	872.4	871.2	871.2
40°	1561.8	1485.7	1295.6	1119.7	987.7	893.8	845.1	824.9	826.1	830.8	830.8
42.5°	1639.1	1549.9	1324.1	1114.9	956.8	855.8	788.0	764.3	772.6	777.3	778.5
45°	1729.4	1626.0	1356.2	1109.0	928.3	813.0	727.4	697.7	701.3	702.5	703.6
47.5°	1834.0	1710.4	1389.5	1104.2	896.2	759.5	660.9	621.6	620.4	613.3	615.7
50°	1943.4	1799.5	1423.9	1095.9	857.0	696.5	590.7	544.4	534.9	524.2	525.4
52.5°	2059.8	1891.1	1456.0	1082.8	808.2	632.3	524.2	474.2	455.2	443.3	445.7
55°	2188.2	1985.0	1486.9	1062.6	757.1	568.1	464.7	413.6	389.9	380.3	381.5
57.5°	2305.9	2075.3	1509.5	1037.6	701.3	509.9	412.4	362.5	347.1	345.9	347.1
60°	2420.0	2151.4	1519.0	1003.2	644.2	456.4	363.7	325.7	315.0	320.9	322.1
62.5°	2516.3	2200.1	1514.3	956.8	586.0	405.3	324.5	297.1	290.0	301.9	303.1
65°	2572.1	2215.5	1481.0	890.3	523.0	355.4	287.6	257.9	254.4	261.5	265.1
67.5°	2498.4	2119.3	1390.7	798.7	452.9	309.0	252.0	228.2	222.3	228.2	228.2
70°	2214.3	1836.4	1176.7	653.7	375.6	263.9	218.7	202.1	197.3	202.1	200.9
72.5°	1844.7	1527.3	927.1	509.9	296.0	222.3	190.2	174.7	170.0	165.2	162.8
75°	1431.1	1160.1	672.7	374.4	223.5	178.3	159.3	145.0	133.1	137.9	135.5
77.5°	1048.3	814.2	476.6	259.1	160.5	137.9	124.8	114.1	105.8	115.3	114.1
80°	675.1	526.5	318.5	173.5	110.5	96.3	91.5	85.6	93.9	122.4	124.8
82.5°	412.4	334.0	190.2	112.9	72.5	64.2	59.4	59.4	96.3	105.8	107.0
85°	184.2	177.1	103.4	58.2	40.4	36.8	33.3	42.8	39.2	28.5	29.7
87.5°	29.7	30.9	22.6	20.2	15.5	15.5	11.9	8.3	5.9	3.6	3.6
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)