

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: P842372

Luminaire Tested: **ARCH4-40-722-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-40-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6706 lumens
Efficiency: N/A
Efficacy: 153.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

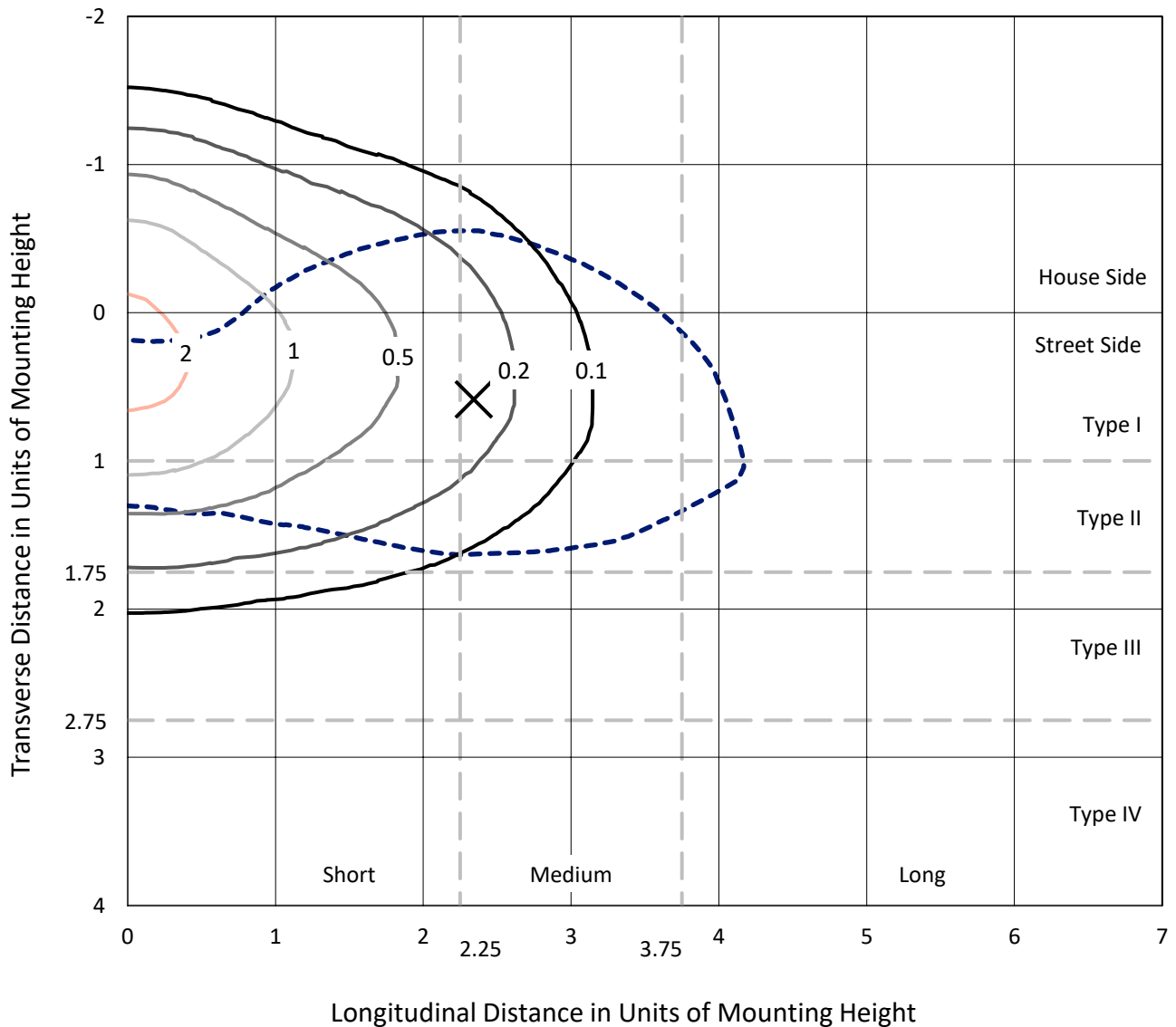
Input Watts (W): 43.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

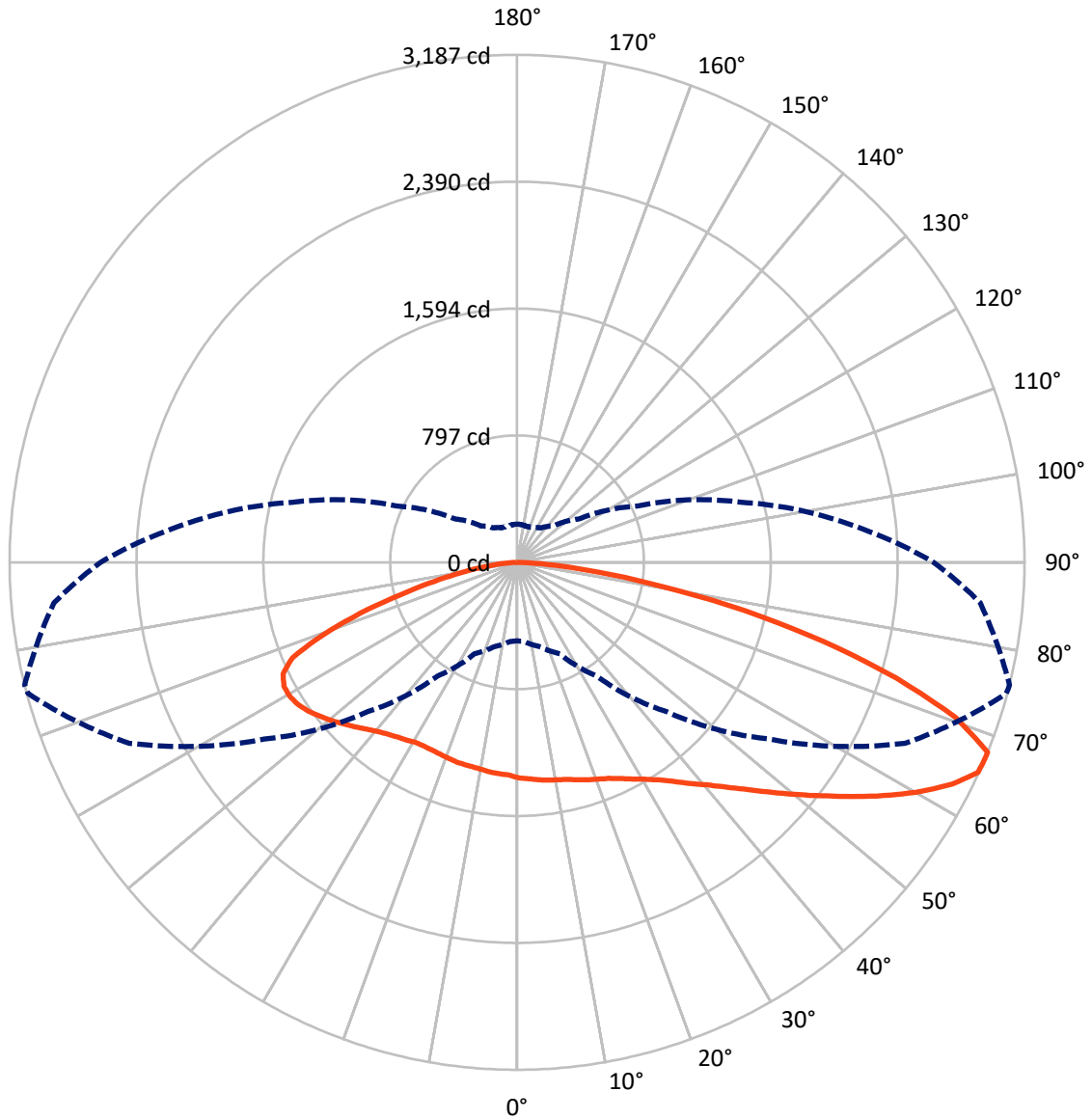
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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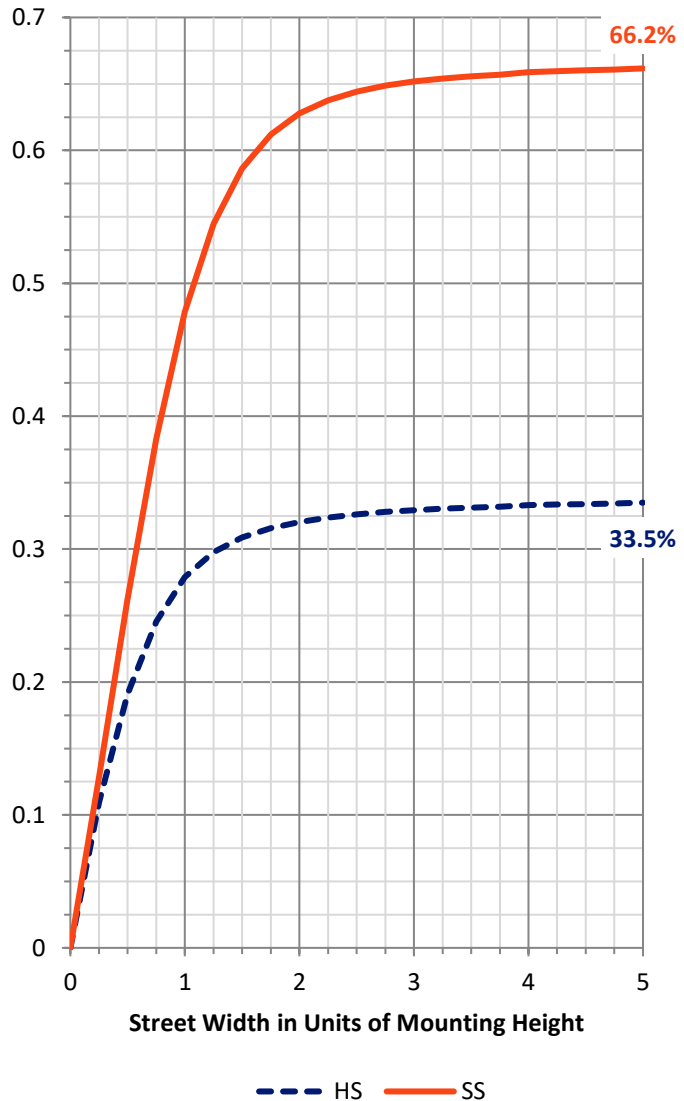
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2266.0	0.0	2266.0
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	4440.0	0.0	4440.0
	% Fixture	66.2	0.0	66.2
Total	Lumens	6706.0	0.0	6706.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	1.9
10°-20°	399.3	6.0
20°-30°	678.5	10.1
30°-40°	965.4	14.4
40°-50°	1219.2	18.2
50°-60°	1320.1	19.7
60°-70°	1227.8	18.3
70°-80°	659.4	9.8
80°-90°	105.7	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°	6706.0	100.0
0°-180°	6706.0	100.0

Coefficient of Utilization

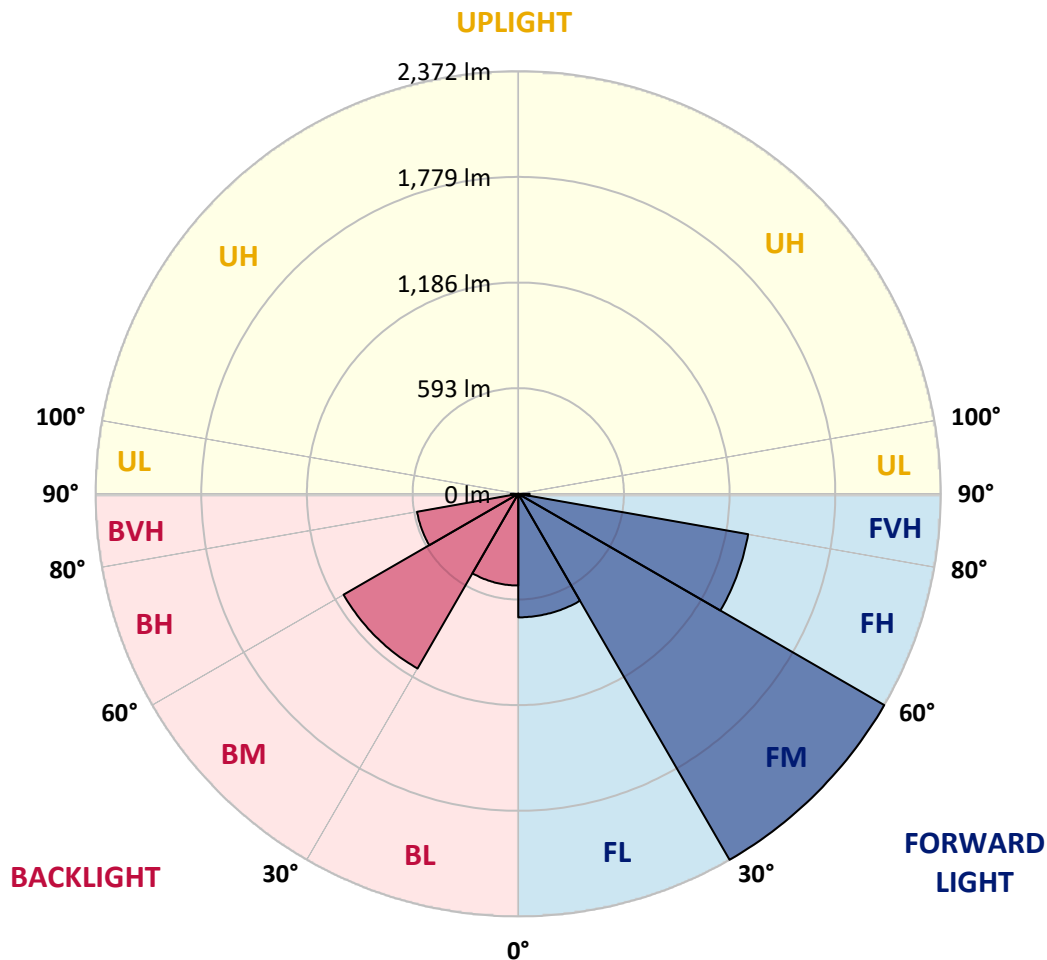


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	693.5	10.3			
FM (30°-60°)	2372.3	35.4			
FH (60°-80°)	1310.3	19.5			G1/1800
FVH (80°-90°)	63.9	1.0			G1/100
BL (0°-30°)	515.0	7.7	B2/1000		
BM (30°-60°)	1132.3	16.9	B2/2500		
BH (60°-80°)	576.9	8.6	B2/1000		G2/1000
BVH (80°-90°)	41.7	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°	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6
2.5°	1395.7	1393.2	1383.2	1384.5	1384.5	1383.2	1368.3	1362.1	1362.1	1360.8	1347.1
5°	1445.5	1441.7	1430.5	1428.1	1423.1	1416.8	1393.2	1379.5	1373.3	1372.0	1353.4
7.5°	1504.0	1499.0	1485.3	1477.9	1465.4	1449.2	1419.3	1398.2	1383.2	1382.0	1355.8
10°	1562.5	1557.5	1541.4	1527.7	1510.2	1484.1	1445.5	1414.4	1390.7	1388.2	1357.1
12.5°	1632.2	1627.3	1607.3	1589.9	1563.8	1528.9	1477.9	1435.5	1403.2	1399.4	1360.8
15°	1705.7	1698.2	1678.3	1658.4	1626.0	1581.2	1520.2	1464.2	1423.1	1416.8	1372.0
17.5°	1766.7	1756.7	1740.6	1720.6	1684.5	1632.2	1562.5	1492.8	1441.7	1436.8	1383.2
20°	1819.0	1811.5	1794.1	1775.4	1736.8	1679.6	1602.4	1521.4	1459.2	1453.0	1391.9
22.5°	1868.8	1858.8	1848.9	1835.2	1792.8	1729.4	1648.4	1556.3	1481.6	1474.1	1403.2
25°	1926.1	1914.9	1911.1	1903.7	1853.9	1789.1	1704.5	1599.9	1512.7	1504.0	1423.1
27.5°	1997.0	1984.6	1977.1	1977.1	1917.4	1850.1	1764.2	1650.9	1548.8	1541.4	1448.0
30°	2071.7	2056.8	2045.6	2045.6	1978.4	1911.1	1822.7	1702.0	1589.9	1581.2	1480.3
32.5°	2137.7	2122.8	2110.3	2109.1	2039.4	1972.1	1883.7	1758.0	1639.7	1628.5	1520.2
35°	2188.8	2175.1	2163.9	2166.4	2100.4	2034.4	1952.2	1832.7	1702.0	1689.5	1572.5
37.5°	2219.9	2214.9	2208.7	2217.4	2156.4	2094.1	2023.2	1904.9	1772.9	1761.7	1637.2
40°	2236.1	2232.3	2257.2	2268.5	2203.7	2147.7	2094.1	1979.6	1850.1	1837.7	1711.9
42.5°	2259.7	2290.9	2300.8	2298.3	2238.6	2188.8	2158.9	2060.5	1941.0	1929.8	1801.6
45°	2175.1	2167.6	2222.4	2252.3	2241.1	2214.9	2219.9	2157.6	2046.8	2035.6	1904.9
47.5°	2061.8	2051.8	2082.9	2156.4	2200.0	2224.9	2274.7	2258.5	2168.8	2158.9	2025.7
50°	1822.7	1836.4	1952.2	2050.6	2136.5	2222.4	2320.7	2366.8	2303.3	2293.4	2155.2
52.5°	1557.5	1571.2	1692.0	1918.6	2059.3	2203.7	2354.4	2475.1	2449.0	2437.8	2293.4
55°	1364.6	1394.4	1531.4	1695.7	1949.7	2145.2	2374.3	2585.9	2605.9	2595.9	2444.0
57.5°	1172.8	1195.2	1298.6	1444.2	1800.3	2043.1	2373.0	2689.3	2770.2	2760.2	2597.1
60°	947.5	976.1	1058.3	1215.2	1601.1	1921.1	2338.2	2770.2	2928.3	2920.9	2745.3
62.5°	793.1	801.8	860.3	996.0	1344.6	1766.7	2259.7	2813.8	3071.5	3066.5	2878.5
65°	638.7	639.9	693.5	806.8	1096.9	1575.0	2126.5	2797.6	3179.8	3182.3	2974.4
67.5°	493.0	499.3	547.8	633.7	871.5	1326.0	1936.0	2688.0	3181.1	3187.3	2919.6
70°	341.1	346.1	419.6	503.0	673.6	1057.0	1678.3	2397.9	2919.6	2924.6	2617.1
72.5°	240.3	242.8	321.2	402.1	526.6	796.8	1266.2	1983.3	2488.8	2492.6	2201.2
75°	179.3	181.8	226.6	305.0	403.4	551.6	865.3	1518.9	1988.3	1988.3	1738.1
77.5°	127.0	128.2	146.9	210.4	268.9	372.3	520.4	994.8	1459.2	1461.7	1266.2
80°	85.9	87.2	95.9	141.9	168.1	201.7	282.6	521.7	920.1	923.8	804.3
82.5°	44.8	47.3	53.5	72.2	84.7	112.1	145.7	265.2	509.2	519.2	483.1
85°	17.4	17.4	19.9	23.7	31.1	43.6	67.2	100.8	230.3	237.8	212.9
87.5°	6.2	6.2	7.5	7.5	8.7	10.0	11.2	14.9	26.1	26.1	24.9
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°	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6
2.5°	1342.1	1342.1	1335.9	1338.4	1337.2	1334.7	1332.2	1335.9	1332.2	1323.5	1322.2
5°	1344.6	1342.1	1332.2	1330.9	1327.2	1322.2	1316.0	1318.5	1312.3	1304.8	1303.6
7.5°	1345.9	1340.9	1327.2	1322.2	1314.8	1304.8	1294.8	1294.8	1286.1	1278.7	1277.4
10°	1343.4	1337.2	1318.5	1308.5	1294.8	1279.9	1266.2	1262.5	1252.5	1243.8	1243.8
12.5°	1344.6	1335.9	1312.3	1296.1	1277.4	1258.7	1241.3	1236.3	1227.6	1218.9	1217.6
15°	1352.1	1339.7	1309.8	1288.6	1261.2	1240.1	1221.4	1217.6	1210.2	1203.9	1203.9
17.5°	1359.6	1343.4	1306.0	1276.2	1242.5	1218.9	1201.5	1201.5	1196.5	1192.7	1192.7
20°	1363.3	1344.6	1298.6	1258.7	1220.1	1195.2	1179.0	1181.5	1180.3	1179.0	1179.0
22.5°	1372.0	1347.1	1292.3	1242.5	1196.5	1170.3	1155.4	1159.1	1157.9	1157.9	1159.1
25°	1385.7	1353.4	1287.4	1227.6	1174.1	1145.4	1129.2	1131.7	1131.7	1131.7	1131.7
27.5°	1404.4	1365.8	1286.1	1213.9	1151.7	1119.3	1099.4	1099.4	1094.4	1095.6	1096.9
30°	1433.0	1389.5	1288.6	1201.5	1128.0	1086.9	1063.3	1059.5	1058.3	1060.8	1062.0
32.5°	1467.9	1421.8	1303.6	1192.7	1103.1	1050.8	1020.9	1019.7	1015.9	1015.9	1015.9
35°	1511.5	1453.0	1317.2	1191.5	1078.2	1012.2	979.8	976.1	967.4	963.7	963.7
37.5°	1567.5	1501.5	1333.4	1182.8	1057.0	974.9	936.3	923.8	913.9	912.6	912.6
40°	1636.0	1556.3	1357.1	1172.8	1034.6	936.3	885.2	864.1	865.3	870.3	870.3
42.5°	1716.9	1623.5	1387.0	1167.8	1002.3	896.4	825.5	800.6	809.3	814.3	815.5
45°	1811.5	1703.2	1420.6	1161.6	972.4	851.6	762.0	730.8	734.6	735.8	737.1
47.5°	1921.1	1791.6	1455.4	1156.6	938.8	795.6	692.2	651.2	649.9	642.4	644.9
50°	2035.6	1885.0	1491.6	1147.9	897.7	729.6	618.8	570.2	560.3	549.1	550.3
52.5°	2157.6	1980.8	1525.2	1134.2	846.6	662.4	549.1	496.8	476.8	464.4	466.9
55°	2292.1	2079.2	1557.5	1113.1	793.1	595.1	486.8	433.3	408.4	398.4	399.7
57.5°	2415.4	2173.8	1581.2	1086.9	734.6	534.1	432.0	379.7	363.5	362.3	363.5
60°	2534.9	2253.5	1591.2	1050.8	674.8	478.1	381.0	341.1	329.9	336.2	337.4
62.5°	2635.7	2304.6	1586.2	1002.3	613.8	424.6	339.9	311.3	303.8	316.2	317.5
65°	2694.3	2320.7	1551.3	932.5	547.8	372.3	301.3	270.2	266.4	273.9	277.6
67.5°	2617.1	2219.9	1456.7	836.7	474.4	323.7	263.9	239.0	232.8	239.0	239.0
70°	2319.5	1923.6	1232.6	684.8	393.4	276.4	229.1	211.7	206.7	211.7	210.4
72.5°	1932.3	1599.9	971.1	534.1	310.0	232.8	199.2	183.0	178.0	173.1	170.6
75°	1499.0	1215.2	704.7	392.2	234.1	186.8	166.8	151.9	139.4	144.4	141.9
77.5°	1098.1	852.8	499.3	271.4	168.1	144.4	130.7	119.5	110.8	120.8	119.5
80°	707.2	551.6	333.7	181.8	115.8	100.8	95.9	89.6	98.4	128.2	130.7
82.5°	432.0	349.9	199.2	118.3	75.9	67.2	62.3	62.3	100.8	110.8	112.1
85°	193.0	185.5	108.3	61.0	42.3	38.6	34.9	44.8	41.1	29.9	31.1
87.5°	31.1	32.4	23.7	21.2	16.2	16.2	12.5	8.7	6.2	3.7	3.7
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)