

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: P836545

Luminaire Tested: **ARCH3-40-730-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-40-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7271 lumens
Efficiency: N/A
Efficacy: 166.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

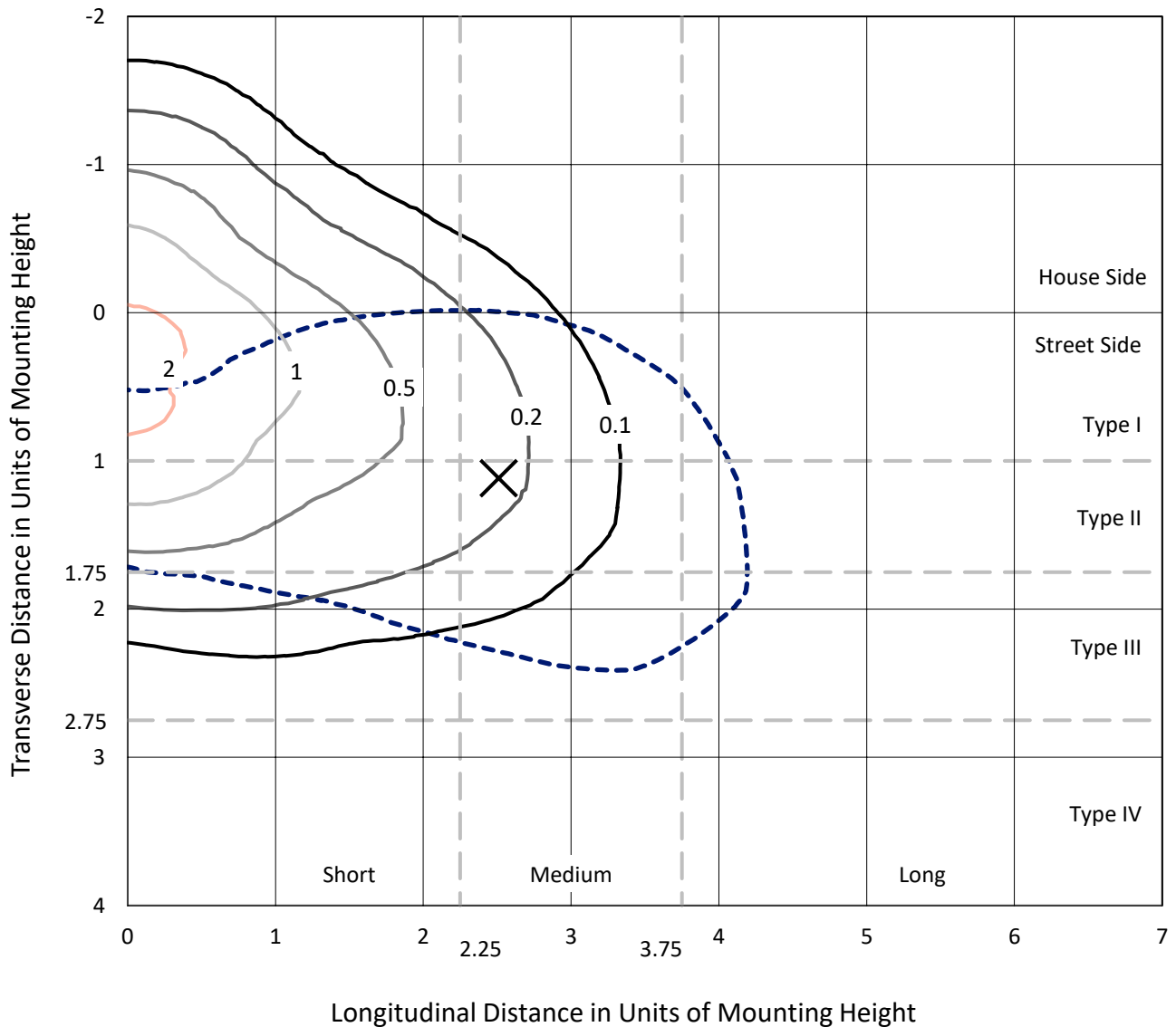
Input Watts (W): 43.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P836545
 CATALOG NUMBER: ARCH3-40-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

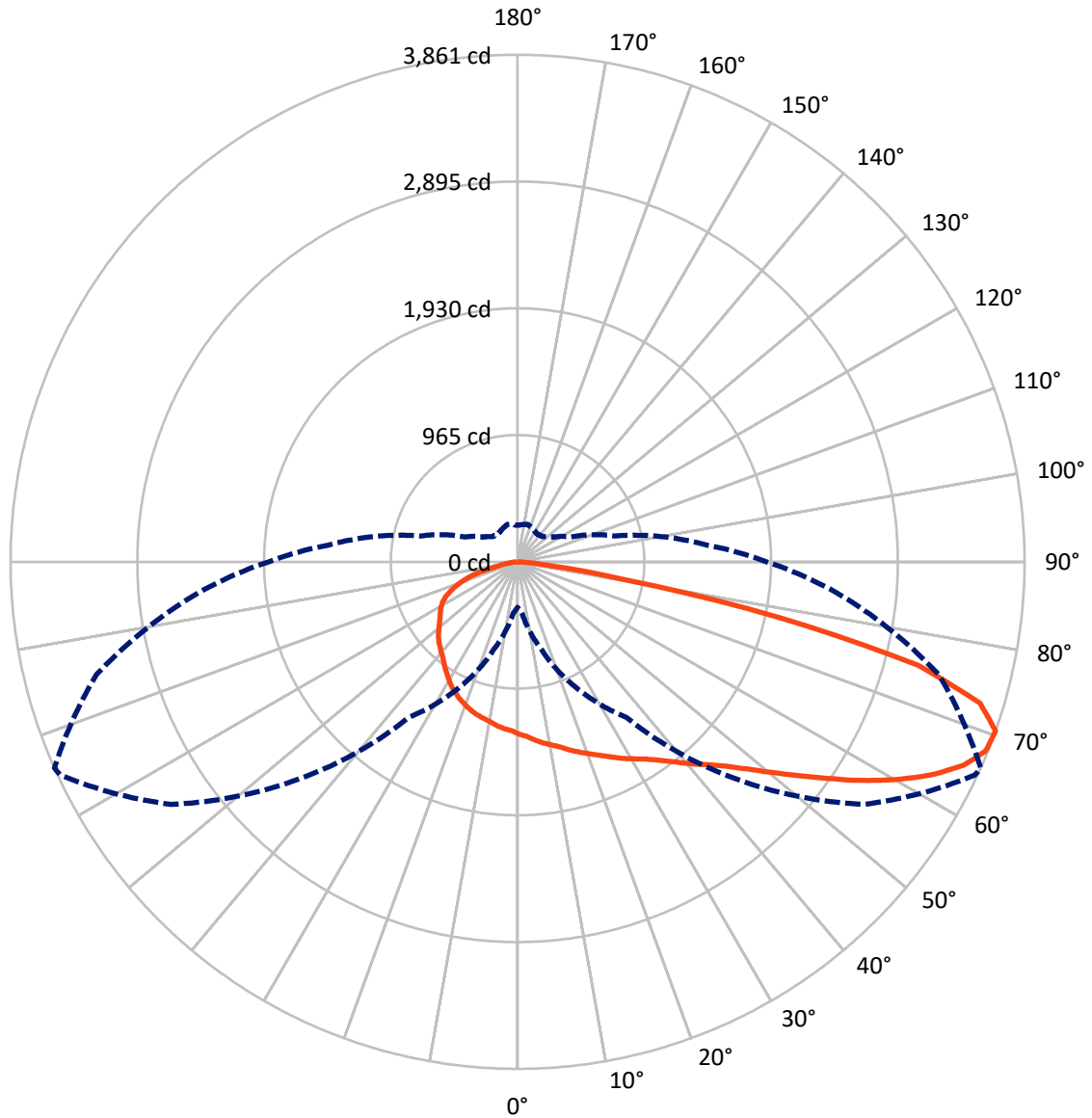
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P836545
CATALOG NUMBER: ARCH3-40-730-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P836545
 CATALOG NUMBER: ARCH3-40-730-U-T3

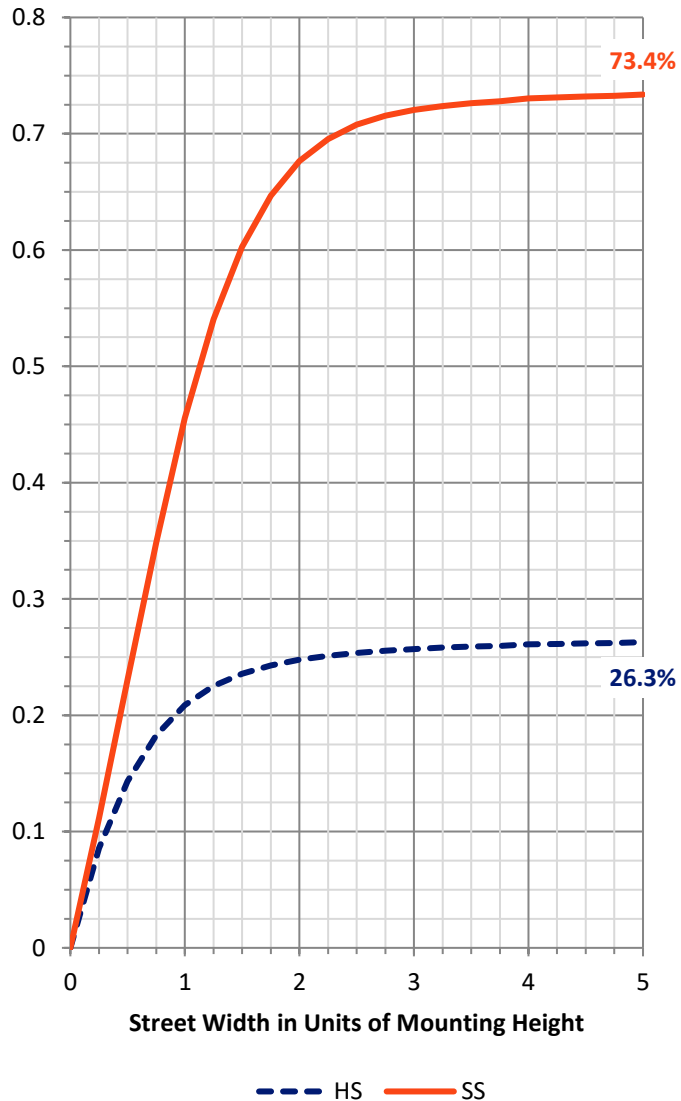
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1926.6	0.0	1926.6
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	5344.4	0.0	5344.4
	% Fixture	73.5	0.0	73.5
Total	Lumens	7271.0	0.0	7271.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	1.7
10°-20°	378.2	5.2
20°-30°	634.0	8.7
30°-40°	949.4	13.1
40°-50°	1269.3	17.5
50°-60°	1482.0	20.4
60°-70°	1473.6	20.3
70°-80°	872.4	12.0
80°-90°	86.0	1.2
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°	7271.0	100.0
0°-180°	7271.0	100.0

Coefficient of Utilization

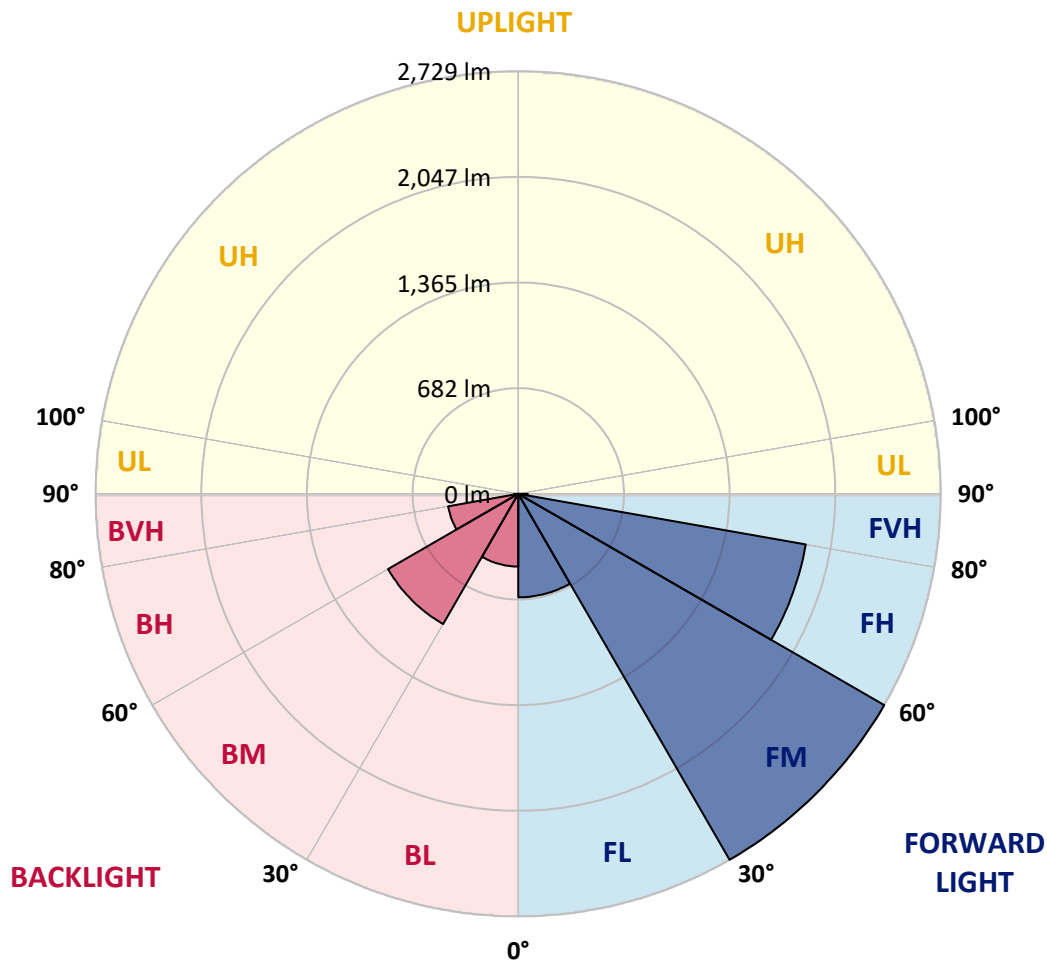


REPORT NUMBER: P836545
 CATALOG NUMBER: ARCH3-40-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	668.7	9.2			
FM (30°-60°)	2729.4	37.5			
FH (60°-80°)	1885.7	25.9			G2/5000
FVH (80°-90°)	60.4	0.8			G1/100
BL (0°-30°)	469.6	6.5	B1/500		
BM (30°-60°)	971.2	13.4	B1/1000		
BH (60°-80°)	460.2	6.3	B1/500		G1/500
BVH (80°-90°)	25.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium



REPORT NUMBER: P836545
 CATALOG NUMBER: ARCH3-40-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2
2.5°	1360.5	1358.4	1357.3	1353.0	1343.3	1347.6	1338.0	1331.5	1330.5	1315.5	1306.9
5°	1416.2	1415.2	1413.0	1406.6	1391.6	1393.7	1377.6	1365.9	1362.6	1339.1	1320.8
7.5°	1463.4	1461.3	1460.2	1451.6	1435.5	1434.5	1415.2	1398.0	1392.7	1360.5	1332.6
10°	1499.9	1496.7	1498.8	1490.2	1473.1	1469.8	1445.2	1422.7	1417.3	1376.6	1338.0
12.5°	1531.0	1528.8	1532.0	1524.5	1510.6	1507.4	1482.7	1453.8	1447.3	1400.2	1349.8
15°	1565.3	1557.8	1564.2	1561.0	1551.3	1550.3	1527.7	1495.6	1487.0	1430.2	1368.0
17.5°	1583.5	1579.2	1586.7	1587.8	1583.5	1591.0	1569.6	1531.0	1523.5	1458.1	1384.1
20°	1596.4	1589.9	1598.5	1604.9	1608.1	1623.2	1606.0	1568.5	1559.9	1484.9	1399.1
22.5°	1640.3	1626.4	1627.4	1631.7	1633.9	1655.3	1644.6	1608.1	1599.6	1518.1	1417.3
25°	1750.7	1722.9	1704.6	1691.8	1676.8	1695.0	1688.6	1653.2	1645.7	1557.8	1439.8
27.5°	1922.3	1886.9	1850.4	1812.9	1754.0	1746.5	1735.7	1703.6	1695.0	1597.4	1462.3
30°	2117.4	2082.0	2039.1	1979.1	1868.7	1810.8	1786.1	1750.7	1741.1	1632.8	1483.8
32.5°	2311.4	2280.4	2237.5	2164.6	2007.0	1889.0	1836.5	1800.1	1790.4	1671.4	1509.5
35°	2462.6	2443.3	2415.4	2324.3	2144.2	1981.2	1909.4	1865.5	1854.7	1732.5	1556.7
37.5°	2584.8	2570.9	2547.3	2451.9	2243.9	2073.4	1993.0	1942.6	1930.9	1799.0	1607.1
40°	2764.9	2728.5	2709.2	2570.9	2330.7	2157.1	2087.4	2034.8	2022.0	1869.7	1647.8
42.5°	2918.3	2891.5	2867.9	2677.0	2413.3	2228.9	2176.4	2128.1	2111.0	1939.4	1691.8
45°	2944.0	2954.7	2942.9	2729.6	2544.1	2299.7	2266.4	2235.3	2219.2	2033.8	1758.2
47.5°	2945.1	2945.1	2875.4	2759.6	2706.0	2379.0	2362.9	2373.6	2356.5	2153.8	1837.6
50°	2867.9	2881.8	2845.4	2767.1	2748.9	2458.3	2480.8	2538.7	2521.6	2281.4	1923.3
52.5°	2708.1	2754.2	2753.2	2755.3	2686.7	2525.9	2605.2	2737.1	2708.1	2425.1	2014.5
55°	2426.2	2518.4	2600.9	2671.7	2633.1	2566.6	2757.4	2948.3	2918.3	2585.9	2106.7
57.5°	2184.9	2243.9	2346.8	2547.3	2569.8	2602.0	2900.0	3169.1	3142.3	2763.9	2203.2
60°	1909.4	1990.9	2093.8	2379.0	2492.6	2648.1	3056.6	3384.6	3358.9	2944.0	2296.4
62.5°	1485.9	1591.0	1796.8	2120.6	2380.1	2677.0	3179.8	3574.4	3562.6	3114.4	2380.1
65°	1035.6	1128.9	1417.3	1803.3	2201.0	2664.2	3278.5	3743.8	3733.1	3253.8	2439.0
67.5°	604.7	712.9	1038.9	1451.6	1884.8	2575.2	3310.6	3843.5	3843.5	3338.5	2455.1
70°	345.2	395.6	685.1	1058.2	1445.2	2329.7	3220.6	3842.4	3860.6	3319.2	2388.6
72.5°	241.2	263.7	461.0	711.9	979.9	1884.8	2984.7	3656.9	3681.6	3137.0	2161.4
75°	187.6	203.7	324.8	485.7	617.5	1280.1	2469.0	3083.4	3148.8	2673.8	1747.5
77.5°	142.6	154.4	189.8	303.4	395.6	735.5	1629.6	2022.0	2026.3	1637.1	937.0
80°	104.0	115.8	126.5	185.5	210.1	344.1	615.4	844.8	821.2	792.3	507.1
82.5°	62.2	74.0	77.2	100.8	102.9	146.9	215.5	272.3	261.6	348.4	238.0
85°	26.8	37.5	39.7	46.1	44.0	60.0	85.8	71.8	64.3	74.0	51.5
87.5°	6.4	10.7	10.7	11.8	9.6	15.0	16.1	11.8	10.7	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P836545
 CATALOG NUMBER: ARCH3-40-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2	1312.2
2.5°	1304.7	1301.5	1302.6	1284.4	1279.0	1273.7	1270.4	1268.3	1266.1	1269.4	1272.6
5°	1314.4	1306.9	1298.3	1271.5	1260.8	1249.0	1240.4	1232.9	1229.7	1229.7	1232.9
7.5°	1321.9	1309.0	1290.8	1255.4	1236.1	1220.0	1206.1	1196.5	1191.1	1191.1	1194.3
10°	1323.0	1304.7	1275.8	1232.9	1207.2	1183.6	1167.5	1156.8	1149.3	1149.3	1151.4
12.5°	1329.4	1304.7	1267.2	1215.8	1183.6	1154.7	1135.4	1119.3	1116.1	1116.1	1118.2
15°	1340.1	1310.1	1261.9	1200.8	1162.2	1128.9	1107.5	1090.3	1083.9	1088.2	1089.3
17.5°	1349.8	1313.3	1252.2	1181.5	1135.4	1098.9	1075.3	1060.3	1051.7	1061.4	1061.4
20°	1356.2	1313.3	1238.3	1156.8	1106.4	1065.7	1043.2	1024.9	1018.5	1030.3	1031.4
22.5°	1365.9	1312.2	1223.3	1132.1	1075.3	1032.4	1009.9	996.0	992.8	1005.6	1009.9
25°	1376.6	1314.4	1207.2	1104.3	1041.0	999.2	982.0	975.6	977.8	993.8	999.2
27.5°	1388.4	1318.7	1191.1	1073.2	1003.5	966.0	956.3	959.5	968.1	988.5	994.9
30°	1399.1	1319.8	1168.6	1036.7	960.6	925.2	929.5	943.4	956.3	976.7	984.2
32.5°	1413.0	1320.8	1145.0	997.1	914.5	888.8	908.1	930.6	943.4	962.7	971.3
35°	1447.3	1339.1	1126.8	958.5	871.6	857.7	889.8	918.8	926.3	943.4	951.0
37.5°	1487.0	1369.1	1117.1	918.8	829.8	826.6	867.3	896.3	898.4	909.1	916.6
40°	1511.7	1381.9	1106.4	885.6	792.3	794.4	836.2	858.8	854.5	862.0	867.3
42.5°	1536.3	1386.2	1083.9	857.7	756.9	759.0	791.2	807.3	809.4	825.5	833.0
45°	1578.1	1398.0	1059.2	831.9	724.7	717.2	736.5	758.0	785.8	816.9	825.5
47.5°	1633.9	1422.7	1033.5	800.9	693.6	669.0	676.5	714.0	743.0	771.9	777.3
50°	1690.7	1447.3	1009.9	763.3	662.6	617.5	620.7	655.1	678.6	701.2	704.4
52.5°	1746.5	1468.8	989.5	728.0	627.2	556.4	569.3	604.7	620.7	631.5	634.7
55°	1802.2	1487.0	971.3	697.9	586.4	508.2	520.0	553.2	569.3	574.6	576.8
57.5°	1860.1	1508.4	957.4	672.2	540.3	465.3	472.8	496.4	511.4	517.8	515.7
60°	1908.3	1526.7	949.9	645.4	494.2	425.6	423.5	444.9	466.4	472.8	470.7
62.5°	1945.9	1538.5	938.1	611.1	453.5	386.0	375.2	403.1	425.6	429.9	433.1
65°	1966.2	1539.5	909.1	567.1	411.7	343.1	335.6	363.4	377.4	381.7	381.7
67.5°	1963.0	1522.4	852.3	508.2	373.1	304.5	298.0	315.2	335.6	338.8	335.6
70°	1896.5	1451.6	761.2	446.0	327.0	270.2	258.4	275.5	294.8	283.0	277.7
72.5°	1707.9	1268.3	627.2	377.4	275.5	227.3	221.9	239.1	240.2	242.3	236.9
75°	1347.6	944.5	469.6	293.8	223.0	190.8	189.8	186.5	190.8	199.4	193.0
77.5°	707.6	471.7	254.1	180.1	161.9	153.3	145.8	144.7	157.6	163.0	156.5
80°	383.8	264.8	145.8	108.3	98.6	99.7	109.4	107.2	121.1	124.4	119.0
82.5°	167.2	125.4	71.8	65.4	65.4	64.3	67.5	75.0	90.1	90.1	71.8
85°	36.5	31.1	27.9	32.2	36.5	36.5	36.5	36.5	25.7	13.9	9.6
87.5°	11.8	11.8	11.8	12.9	13.9	13.9	11.8	8.6	5.4	1.1	0.0
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)