

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: P836673

Luminaire Tested: **ARCH3-60-722-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-60-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8884 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

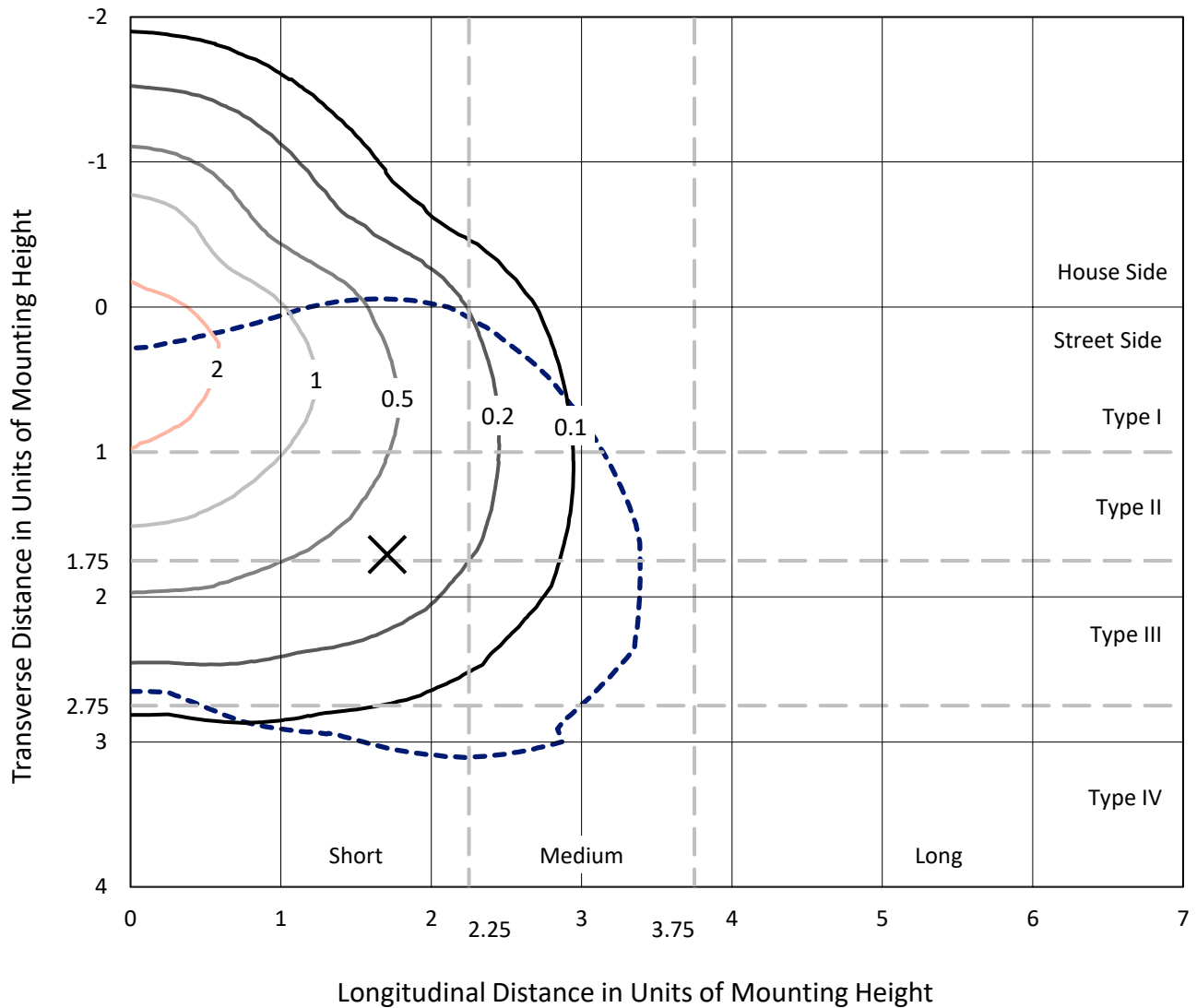
Input Watts (W): 63.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

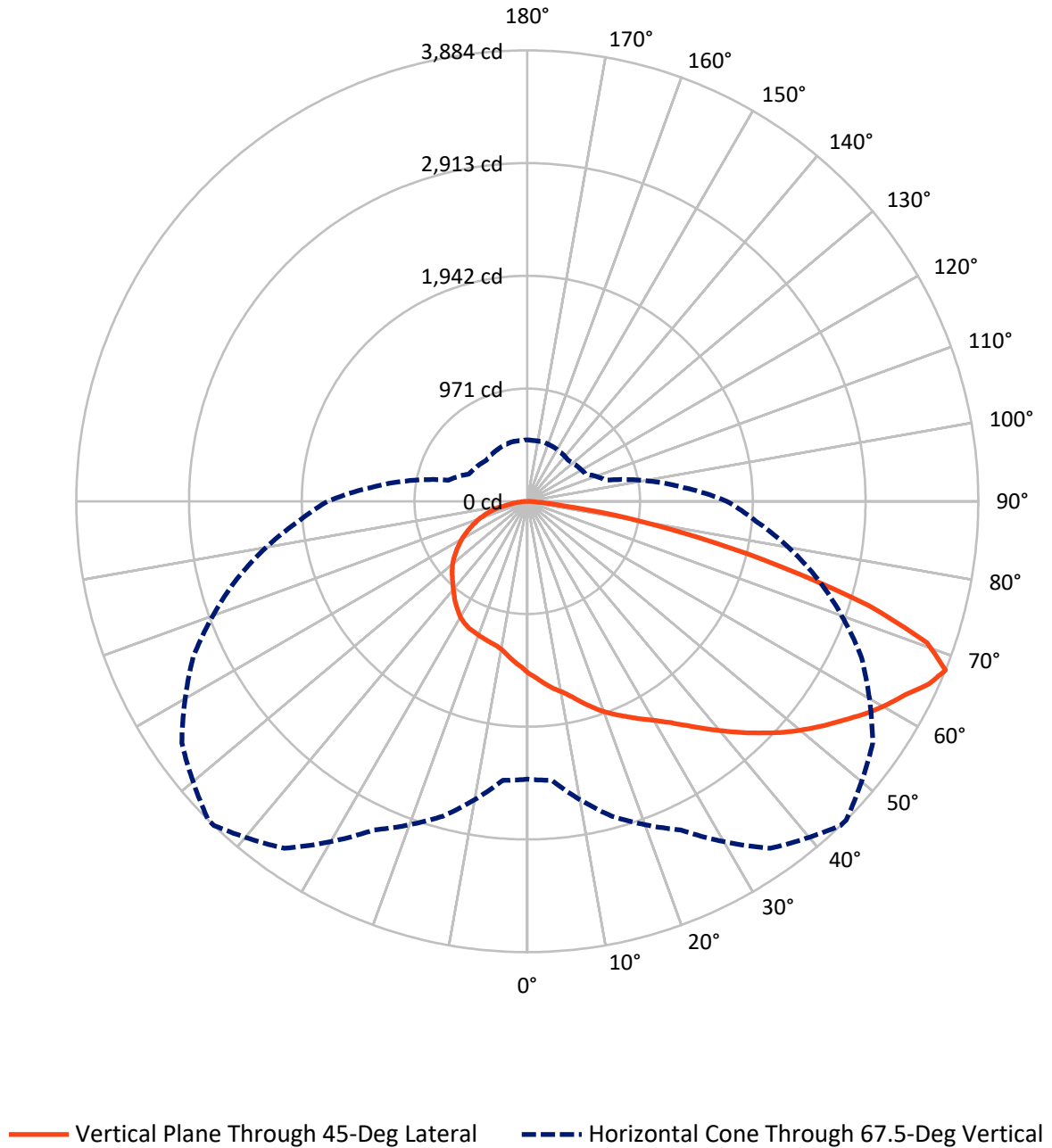
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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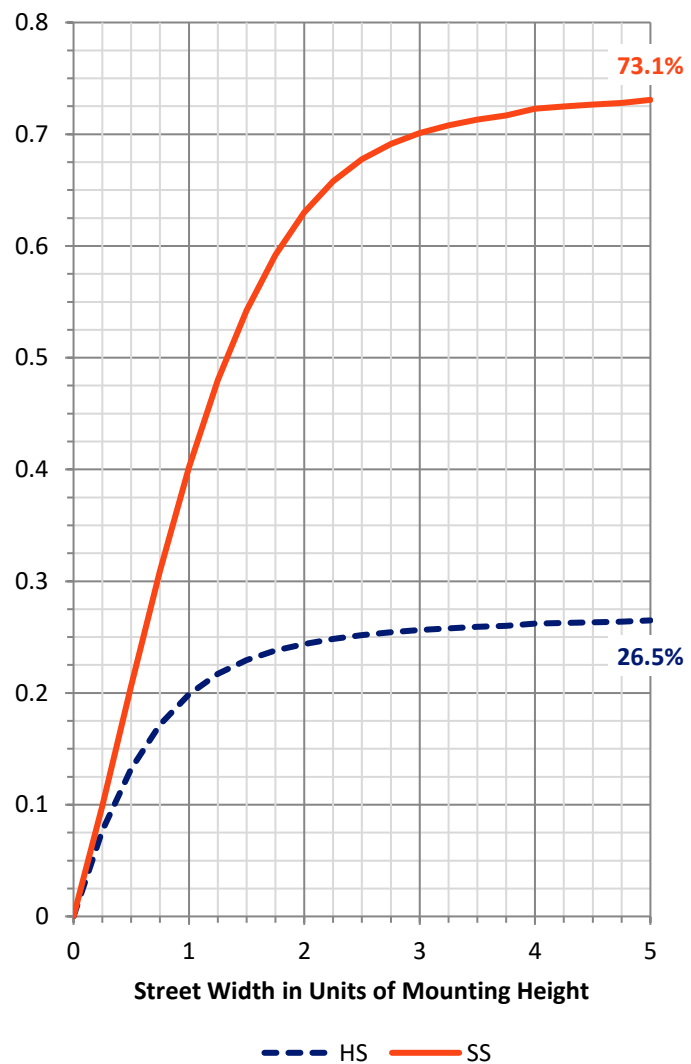
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2373.4	0.0	2373.4
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	6510.6	0.0	6510.6
	% Fixture	73.3	0.0	73.3
Total	Lumens	8884.0	0.0	8884.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.9	1.6
10°-20°	438.2	4.9
20°-30°	756.4	8.5
30°-40°	1115.5	12.6
40°-50°	1511.3	17.0
50°-60°	1847.1	20.8
60°-70°	1905.1	21.4
70°-80°	1043.5	11.7
80°-90°	125.1	1.4
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°	8884.0	100.0
0°-180°	8884.0	100.0

Coefficient of Utilization



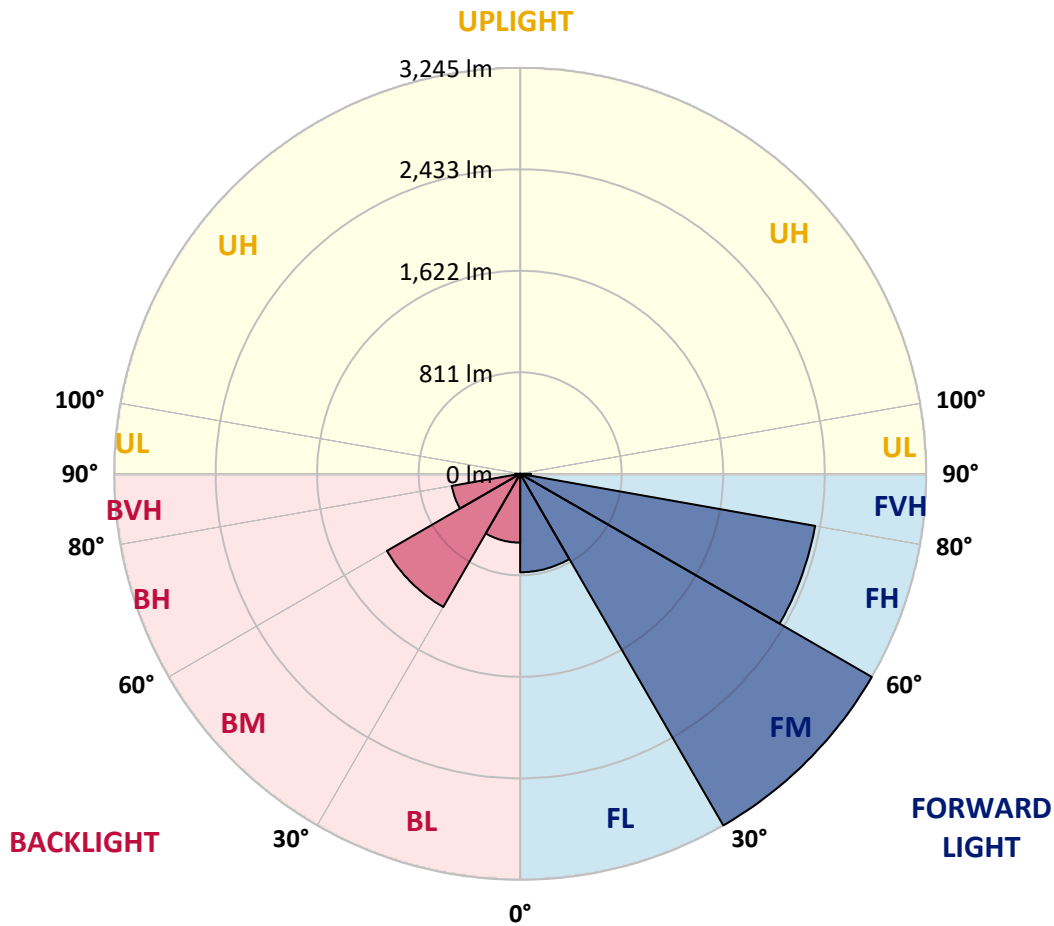
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	786.5	8.9			
FM (30°-60°)	3244.5	36.5			
FH (60°-80°)	2393.5	26.9			G2/5000
FVH (80°-90°)	86.2	1.0			G1/100
BL (0°-30°)	550.1	6.2	B2/1000		
BM (30°-60°)	1229.4	13.8	B2/2500		
BH (60°-80°)	555.0	6.2	B2/1000		G2/1000
BVH (80°-90°)	38.9	0.4			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1481.7	1481.7	1481.7	1481.7	1481.7	1481.7	1481.7	1481.7	1481.7	1481.7	1481.7
2.5°	1546.6	1545.2	1547.9	1538.5	1526.3	1524.9	1524.9	1516.8	1507.4	1488.4	1473.6
5°	1619.6	1616.9	1618.2	1604.7	1588.5	1580.4	1579.0	1561.4	1539.8	1510.1	1483.0
7.5°	1687.2	1684.5	1683.1	1668.2	1643.9	1630.4	1629.0	1603.4	1577.7	1531.7	1492.5
10°	1750.7	1748.0	1745.3	1725.0	1695.3	1675.0	1672.3	1639.9	1607.4	1550.6	1500.6
12.5°	1831.8	1826.4	1823.7	1799.4	1756.1	1734.5	1730.4	1687.2	1646.6	1577.7	1516.8
15°	1917.0	1912.9	1908.9	1885.9	1837.2	1808.8	1802.1	1748.0	1692.6	1612.8	1541.2
17.5°	1980.5	1976.5	1976.5	1956.2	1911.6	1879.1	1873.7	1808.8	1739.9	1645.3	1560.1
20°	2019.7	2015.7	2019.7	2007.6	1973.8	1946.7	1941.3	1869.7	1787.2	1675.0	1576.3
22.5°	2048.1	2044.1	2050.8	2045.4	2021.1	2004.9	2000.8	1930.5	1835.9	1706.1	1592.5
25°	2098.1	2098.1	2098.1	2088.7	2065.7	2060.3	2060.3	1999.5	1898.1	1746.7	1616.9
27.5°	2198.2	2192.8	2186.0	2159.0	2119.8	2118.4	2126.5	2069.8	1969.7	1799.4	1646.6
30°	2345.5	2342.8	2317.2	2260.4	2194.1	2187.4	2192.8	2145.5	2046.8	1854.8	1680.4
32.5°	2536.2	2526.7	2474.0	2388.8	2294.2	2263.1	2273.9	2223.9	2127.9	1911.6	1712.9
35°	2671.4	2674.1	2636.2	2559.1	2446.9	2364.5	2372.6	2311.7	2215.8	1975.1	1753.4
37.5°	2826.8	2836.3	2779.5	2721.4	2617.3	2476.7	2484.8	2402.3	2303.6	2054.9	1796.7
40°	3041.8	3022.8	2926.9	2857.9	2743.0	2594.3	2601.1	2503.7	2405.0	2130.6	1846.7
42.5°	3221.6	3187.8	3071.5	2983.6	2845.8	2718.7	2725.4	2613.2	2507.8	2214.4	1902.1
45°	3479.8	3386.5	3218.9	3175.6	2951.2	2840.3	2847.1	2729.5	2615.9	2303.6	1961.6
47.5°	3629.9	3481.1	3374.3	3351.4	3067.5	2966.1	2974.2	2852.5	2732.2	2405.0	2023.8
50°	3620.4	3524.4	3493.3	3436.5	3170.2	3083.7	3091.8	2979.6	2849.8	2505.1	2083.3
52.5°	3558.2	3575.8	3559.6	3464.9	3273.0	3197.2	3206.7	3105.3	2970.1	2598.4	2138.7
55°	3654.2	3666.4	3635.3	3510.9	3386.5	3310.8	3321.6	3237.8	3089.1	2680.8	2186.0
57.5°	3769.1	3725.8	3694.7	3592.0	3504.1	3433.8	3446.0	3373.0	3191.8	2747.1	2222.5
60°	3763.7	3673.1	3704.2	3597.4	3583.9	3547.4	3558.2	3483.8	3270.2	2795.7	2237.4
62.5°	3486.6	3437.9	3594.7	3558.2	3648.8	3648.8	3662.3	3551.4	3317.6	2816.0	2229.3
65°	3005.3	3008.0	3283.8	3435.2	3725.8	3788.0	3798.8	3593.4	3290.5	2756.5	2153.6
67.5°	2394.2	2411.8	2807.9	3122.9	3648.8	3882.7	3884.0	3631.2	3174.3	2588.9	1977.8
70°	1752.1	1765.6	2233.3	2615.9	3285.1	3673.1	3651.5	3524.4	2921.5	2296.9	1703.4
72.5°	1184.3	1196.4	1677.7	2008.9	2695.7	3128.3	3081.0	3114.8	2490.2	1887.3	1369.5
75°	796.3	811.1	1193.7	1437.1	1983.2	2375.3	2269.8	2359.1	1926.5	1429.0	999.1
77.5°	501.6	511.0	758.4	942.3	1354.6	1616.9	1511.4	1512.8	1109.9	769.2	536.7
80°	319.0	321.8	459.6	543.5	784.1	972.0	859.8	698.9	500.2	408.3	320.4
82.5°	185.2	181.2	274.4	306.9	373.1	369.1	305.5	289.3	219.0	204.1	163.6
85°	74.4	68.9	120.3	112.2	113.6	120.3	89.2	89.2	71.7	55.4	40.6
87.5°	14.9	14.9	16.2	14.9	14.9	16.2	12.2	12.2	10.8	10.8	10.8
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°	1481.7	1481.7	1481.7	1481.7	1481.7	1481.7	1481.7	1481.7	1481.7	1481.7	1481.7
2.5°	1470.9	1468.2	1461.4	1443.8	1434.4	1429.0	1420.8	1418.1	1416.8	1418.1	1422.2
5°	1474.9	1465.5	1446.5	1418.1	1399.2	1387.0	1373.5	1368.1	1364.1	1364.1	1368.1
7.5°	1477.6	1462.8	1430.3	1388.4	1361.4	1342.4	1326.2	1319.5	1318.1	1322.2	1323.5
10°	1479.0	1457.3	1411.4	1358.7	1323.5	1299.2	1283.0	1278.9	1283.0	1291.1	1292.4
12.5°	1488.4	1458.7	1400.6	1338.4	1296.5	1272.1	1260.0	1260.0	1270.8	1285.7	1287.0
15°	1504.7	1468.2	1395.2	1322.2	1278.9	1257.3	1253.2	1260.0	1276.2	1299.2	1301.9
17.5°	1516.8	1473.6	1383.0	1300.5	1255.9	1242.4	1249.2	1265.4	1288.4	1319.5	1322.2
20°	1524.9	1473.6	1365.4	1274.8	1232.9	1230.2	1249.2	1274.8	1299.2	1335.7	1339.7
22.5°	1533.1	1470.9	1345.1	1243.7	1207.2	1215.4	1250.5	1283.0	1307.3	1346.5	1353.3
25°	1547.9	1474.9	1324.9	1212.7	1180.2	1203.2	1249.2	1288.4	1314.0	1354.6	1365.4
27.5°	1568.2	1484.4	1310.0	1184.3	1153.2	1184.3	1239.7	1287.0	1314.0	1353.3	1365.4
30°	1589.8	1495.2	1292.4	1153.2	1122.1	1157.2	1219.4	1272.1	1303.2	1339.7	1354.6
32.5°	1612.8	1507.4	1277.5	1119.4	1084.2	1120.7	1189.7	1249.2	1283.0	1316.8	1333.0
35°	1643.9	1529.0	1269.4	1092.3	1050.4	1082.9	1151.8	1219.4	1255.9	1287.0	1305.9
37.5°	1681.8	1556.0	1265.4	1065.3	1013.9	1041.0	1111.3	1182.9	1222.1	1247.8	1265.4
40°	1725.0	1589.8	1264.0	1039.6	977.4	997.7	1069.4	1141.0	1178.9	1199.1	1214.0
42.5°	1773.7	1627.7	1261.3	1013.9	940.9	957.1	1028.8	1099.1	1131.5	1149.1	1162.6
45°	1825.1	1665.5	1255.9	982.8	901.7	920.6	986.9	1049.1	1082.9	1097.7	1112.6
47.5°	1876.4	1703.4	1245.1	947.7	866.6	884.1	942.3	996.4	1023.4	1036.9	1051.8
50°	1926.5	1737.2	1219.4	907.1	830.1	846.3	890.9	927.4	947.7	958.5	973.4
52.5°	1971.1	1760.2	1182.9	859.8	793.6	801.7	831.4	862.5	878.7	880.1	893.6
55°	2008.9	1772.3	1130.2	811.1	754.4	755.7	771.9	796.3	803.0	797.6	807.1
57.5°	2030.6	1765.6	1072.1	761.1	713.8	708.4	720.6	732.7	734.1	720.6	730.0
60°	2036.0	1734.5	996.4	711.1	673.2	658.4	662.4	659.7	657.0	651.6	659.7
62.5°	2008.9	1668.2	912.5	662.4	630.0	607.0	605.7	604.3	608.4	609.7	611.1
65°	1910.2	1543.9	812.5	612.4	584.0	552.9	551.6	567.8	573.2	565.1	567.8
67.5°	1719.6	1353.3	703.0	554.3	525.9	498.9	509.7	519.1	528.6	525.9	528.6
70°	1449.2	1111.3	602.9	489.4	462.3	447.5	459.6	467.8	469.1	466.4	469.1
72.5°	1139.7	867.9	509.7	423.1	398.8	392.1	406.9	413.7	425.8	431.3	432.6
75°	823.3	640.8	417.7	351.5	331.2	331.2	344.7	356.9	367.7	361.0	356.9
77.5°	459.6	382.6	300.1	242.0	246.0	265.0	270.4	283.9	294.7	293.4	290.7
80°	278.5	239.3	202.8	156.8	155.5	170.3	205.5	228.5	233.9	221.7	220.4
82.5°	144.7	125.7	108.2	87.9	97.3	113.6	119.0	143.3	158.2	152.8	159.5
85°	36.5	35.1	39.2	40.6	50.0	55.4	60.8	71.7	47.3	23.0	23.0
87.5°	10.8	10.8	13.5	13.5	17.6	21.6	20.3	20.3	10.8	1.4	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)