

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: P836617

Luminaire Tested: **ARCH3-50-730-U-T3**

Issue Date: 5/16/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P836617  
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: ARCH3-50-730-U-T3  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8885 lumens  
Efficiency: N/A  
Efficacy: 165.8 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2

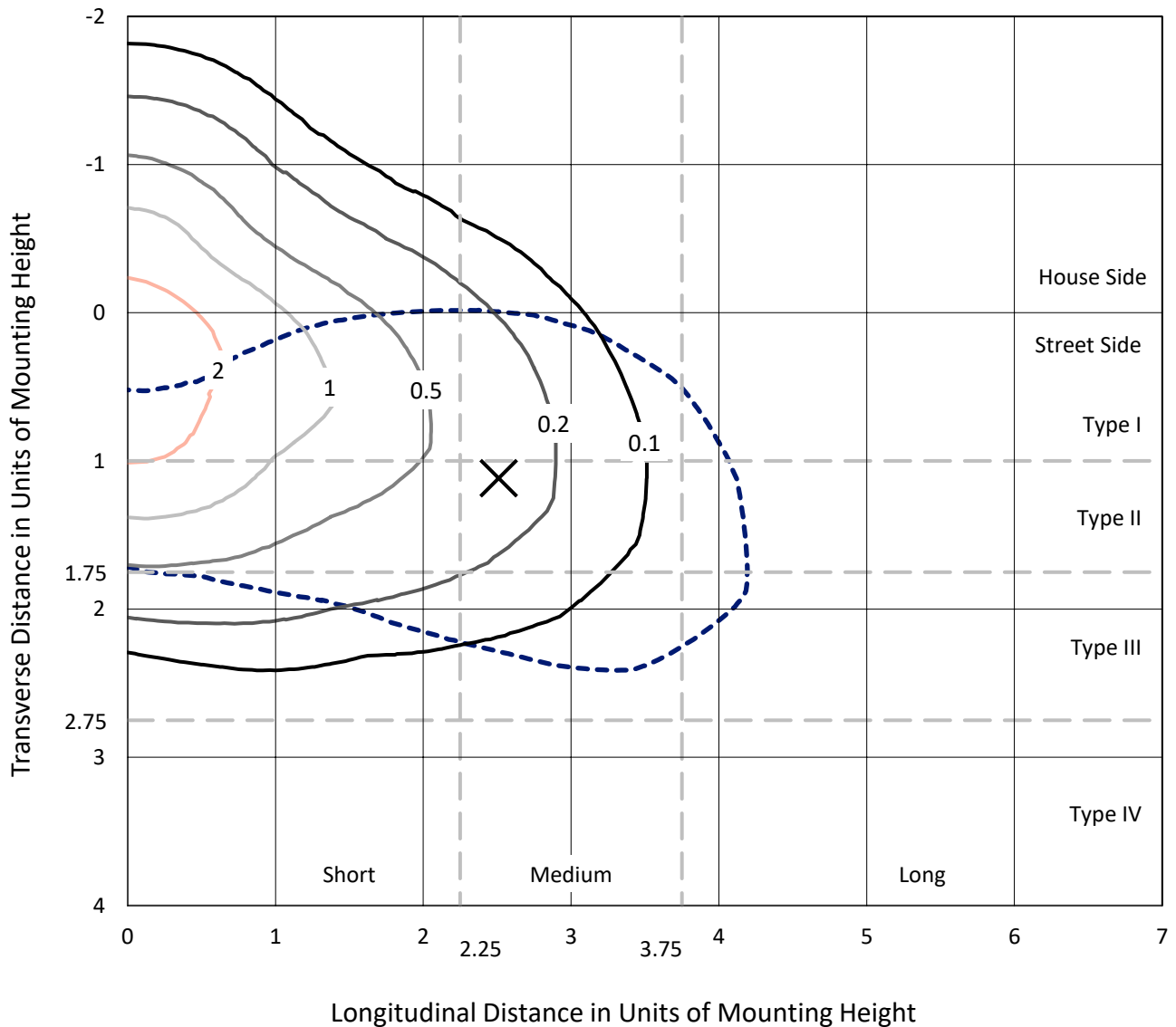
Input Watts (W): 53.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P836617  
 CATALOG NUMBER: ARCH3-50-730-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

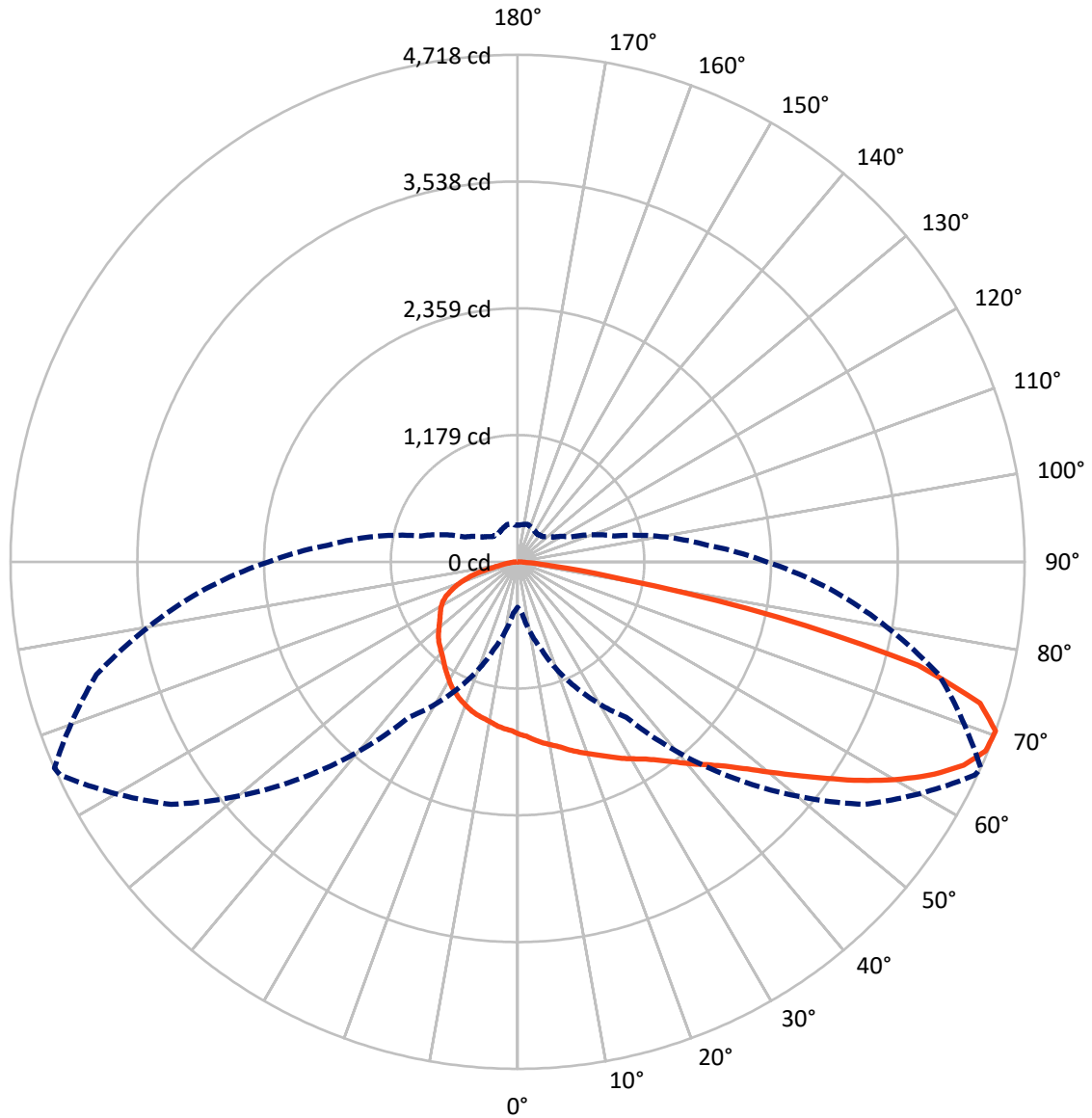
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P836617  
CATALOG NUMBER: ARCH3-50-730-U-T3

### Luminous Intensity Polar Plot



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

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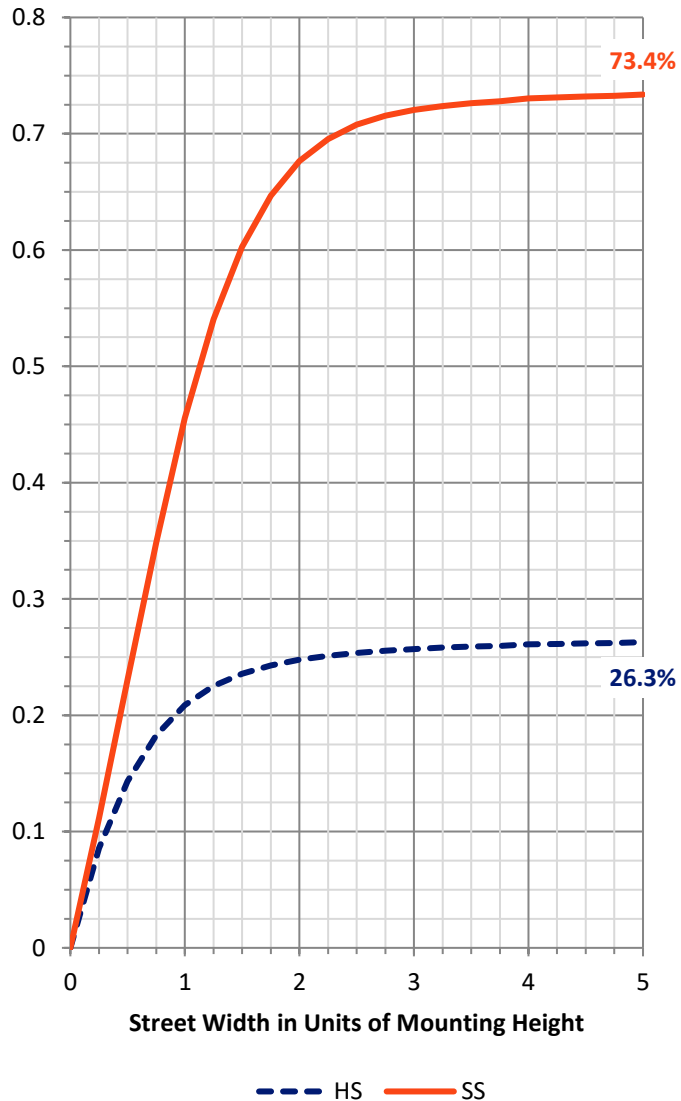
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2354.3	0.0	2354.3
	% Fixture	26.5	0.0	26.5
<b>Street Side</b>	Lumens	6530.7	0.0	6530.7
	% Fixture	73.5	0.0	73.5
<b>Total</b>	Lumens	8885.0	0.0	8885.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.1	1.7
10°-20°	462.2	5.2
20°-30°	774.8	8.7
30°-40°	1160.1	13.1
40°-50°	1551.1	17.5
50°-60°	1810.9	20.4
60°-70°	1800.7	20.3
70°-80°	1066.0	12.0
80°-90°	105.1	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°	8885.0	100.0
0°-180°	8885.0	100.0

**Coefficient of Utilization**

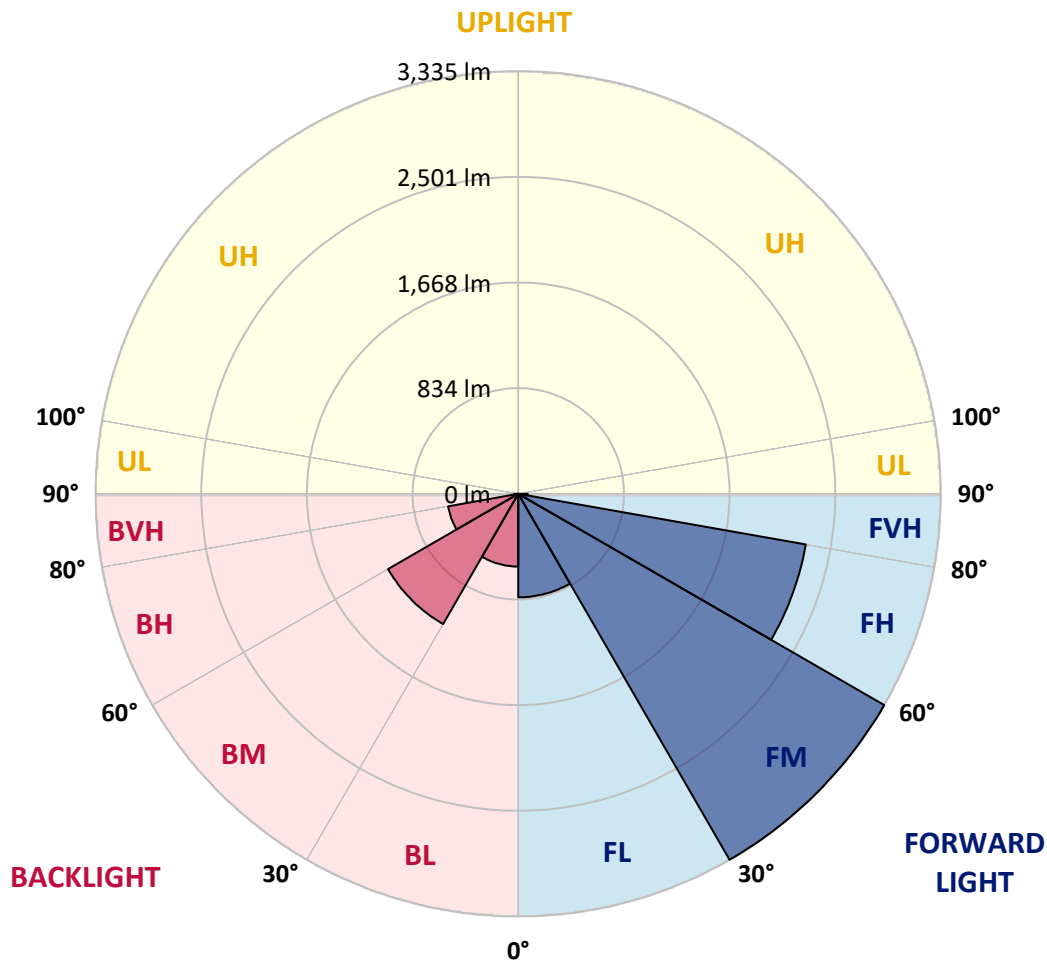


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 CATALOG NUMBER: ARCH3-50-730-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	817.2	9.2			
FM (30°-60°)	3335.3	37.5			
FH (60°-80°)	2304.3	25.9			G2/5000
FVH (80°-90°)	73.8	0.8			G1/100
BL (0°-30°)	573.9	6.5	B2/1000		
BM (30°-60°)	1186.8	13.4	B2/2500		
BH (60°-80°)	562.4	6.3	B2/1000		G2/1000
BVH (80°-90°)	31.2	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 III Medium



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 CATALOG NUMBER: ARCH3-50-730-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1603.5	1603.5	1603.5	1603.5	1603.5	1603.5	1603.5	1603.5	1603.5	1603.5	1603.5
2.5°	1662.5	1659.9	1658.6	1653.3	1641.5	1646.8	1635.0	1627.1	1625.8	1607.5	1597.0
5°	1730.6	1729.3	1726.7	1718.8	1700.5	1703.1	1683.5	1669.0	1665.1	1636.3	1614.0
7.5°	1788.3	1785.6	1784.3	1773.9	1754.2	1752.9	1729.3	1708.3	1701.8	1662.5	1628.4
10°	1832.8	1828.9	1831.5	1821.0	1800.1	1796.1	1766.0	1738.5	1731.9	1682.1	1635.0
12.5°	1870.8	1868.2	1872.1	1862.9	1845.9	1842.0	1811.8	1776.5	1768.6	1711.0	1649.4
15°	1912.7	1903.5	1911.4	1907.5	1895.7	1894.4	1866.9	1827.6	1817.1	1747.6	1671.7
17.5°	1935.0	1929.8	1938.9	1940.2	1935.0	1944.2	1918.0	1870.8	1861.6	1781.7	1691.3
20°	1950.7	1942.9	1953.3	1961.2	1965.1	1983.5	1962.5	1916.6	1906.2	1814.5	1709.7
22.5°	2004.4	1987.4	1988.7	1993.9	1996.6	2022.8	2009.7	1965.1	1954.6	1855.1	1731.9
25°	2139.4	2105.3	2083.0	2067.3	2049.0	2071.2	2063.4	2020.1	2011.0	1903.5	1759.4
27.5°	2349.0	2305.7	2261.2	2215.3	2143.3	2134.1	2121.0	2081.7	2071.2	1952.0	1787.0
30°	2587.4	2544.2	2491.8	2418.4	2283.5	2212.7	2182.6	2139.4	2127.6	1995.3	1813.2
32.5°	2824.5	2786.5	2734.1	2645.1	2452.5	2308.4	2244.2	2199.6	2187.8	2042.4	1844.6
35°	3009.3	2985.7	2951.6	2840.3	2620.2	2421.0	2333.3	2279.5	2266.4	2117.1	1902.2
37.5°	3158.6	3141.6	3112.8	2996.2	2742.0	2533.7	2435.4	2373.9	2359.5	2198.3	1963.8
40°	3378.7	3334.2	3310.6	3141.6	2848.1	2635.9	2550.7	2486.5	2470.8	2284.8	2013.6
42.5°	3566.0	3533.3	3504.5	3271.3	2949.0	2723.7	2659.5	2600.5	2579.6	2369.9	2067.3
45°	3597.5	3610.6	3596.2	3335.5	3108.8	2810.1	2769.5	2731.5	2711.9	2485.2	2148.5
47.5°	3598.8	3598.8	3513.6	3372.2	3306.6	2907.1	2887.4	2900.5	2879.6	2632.0	2245.5
50°	3504.5	3521.5	3477.0	3381.3	3359.0	3004.0	3031.5	3102.3	3081.3	2787.9	2350.3
52.5°	3309.3	3365.6	3364.3	3366.9	3283.1	3086.6	3183.5	3344.6	3309.3	2963.4	2461.6
55°	2964.7	3077.4	3178.3	3264.7	3217.6	3136.3	3369.5	3602.7	3566.0	3159.9	2574.3
57.5°	2669.9	2742.0	2867.8	3112.8	3140.3	3179.6	3543.8	3872.6	3839.8	3377.4	2692.2
60°	2333.3	2432.8	2558.6	2907.1	3045.9	3235.9	3735.0	4135.9	4104.5	3597.5	2806.2
62.5°	1815.8	1944.2	2195.7	2591.3	2908.4	3271.3	3885.7	4367.8	4353.4	3805.8	2908.4
65°	1265.5	1379.5	1731.9	2203.6	2689.6	3255.6	4006.2	4574.8	4561.7	3976.1	2980.4
67.5°	738.9	871.2	1269.5	1773.9	2303.1	3146.8	4045.5	4696.6	4696.6	4079.6	3000.1
70°	421.8	483.4	837.1	1293.1	1766.0	2846.8	3935.5	4695.3	4717.6	4056.0	2918.9
72.5°	294.8	322.3	563.3	869.9	1197.4	2303.1	3647.3	4468.7	4498.8	3833.3	2641.1
75°	229.3	248.9	397.0	593.5	754.6	1564.2	3017.1	3767.8	3847.7	3267.3	2135.4
77.5°	174.2	188.7	231.9	370.8	483.4	898.7	1991.3	2470.8	2476.1	2000.5	1145.0
80°	127.1	141.5	154.6	226.6	256.8	420.5	752.0	1032.3	1003.5	968.2	619.7
82.5°	76.0	90.4	94.3	123.1	125.8	179.5	263.3	332.8	319.7	425.8	290.8
85°	32.8	45.9	48.5	56.3	53.7	73.4	104.8	87.8	78.6	90.4	62.9
87.5°	7.9	13.1	13.1	14.4	11.8	18.3	19.7	14.4	13.1	15.7	15.7
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: P836617  
 CATALOG NUMBER: ARCH3-50-730-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1603.5	1603.5	1603.5	1603.5	1603.5	1603.5	1603.5	1603.5	1603.5	1603.5	1603.5
2.5°	1594.4	1590.4	1591.7	1569.5	1562.9	1556.4	1552.4	1549.8	1547.2	1551.1	1555.1
5°	1606.2	1597.0	1586.5	1553.8	1540.7	1526.2	1515.8	1506.6	1502.7	1502.7	1506.6
7.5°	1615.3	1599.6	1577.3	1534.1	1510.5	1490.9	1473.8	1462.1	1455.5	1455.5	1459.4
10°	1616.6	1594.4	1559.0	1506.6	1475.2	1446.3	1426.7	1413.6	1404.4	1404.4	1407.0
12.5°	1624.5	1594.4	1548.5	1485.6	1446.3	1411.0	1387.4	1367.7	1363.8	1363.8	1366.4
15°	1637.6	1600.9	1542.0	1467.3	1420.1	1379.5	1353.3	1332.4	1324.5	1329.7	1331.0
17.5°	1649.4	1604.9	1530.2	1443.7	1387.4	1342.8	1314.0	1295.7	1285.2	1297.0	1297.0
20°	1657.3	1604.9	1513.1	1413.6	1352.0	1302.2	1274.7	1252.4	1244.6	1259.0	1260.3
22.5°	1669.0	1603.5	1494.8	1383.4	1314.0	1261.6	1234.1	1217.1	1213.1	1228.9	1234.1
25°	1682.1	1606.2	1475.2	1349.4	1272.1	1221.0	1200.0	1192.2	1194.8	1214.4	1221.0
27.5°	1696.6	1611.4	1455.5	1311.4	1226.2	1180.4	1168.6	1172.5	1183.0	1207.9	1215.8
30°	1709.7	1612.7	1428.0	1266.8	1173.8	1130.6	1135.8	1152.9	1168.6	1193.5	1202.7
32.5°	1726.7	1614.0	1399.2	1218.4	1117.5	1086.1	1109.6	1137.2	1152.9	1176.5	1186.9
35°	1768.6	1636.3	1376.9	1171.2	1065.1	1048.1	1087.4	1122.7	1131.9	1152.9	1162.0
37.5°	1817.1	1673.0	1365.1	1122.7	1014.0	1010.1	1059.9	1095.2	1097.8	1110.9	1120.1
40°	1847.2	1688.7	1352.0	1082.1	968.2	970.8	1021.9	1049.4	1044.1	1053.3	1059.9
42.5°	1877.3	1693.9	1324.5	1048.1	924.9	927.5	966.8	986.5	989.1	1008.8	1017.9
45°	1928.4	1708.3	1294.4	1016.6	885.6	876.4	900.0	926.2	960.3	998.3	1008.8
47.5°	1996.6	1738.5	1262.9	978.6	847.6	817.5	826.7	872.5	907.9	943.3	949.8
50°	2066.0	1768.6	1234.1	932.8	809.6	754.6	758.5	800.5	829.3	856.8	860.7
52.5°	2134.1	1794.8	1209.2	889.5	766.4	679.9	695.7	738.9	758.5	771.6	775.6
55°	2202.2	1817.1	1186.9	852.9	716.6	621.0	635.4	676.0	695.7	702.2	704.8
57.5°	2273.0	1843.3	1169.9	821.4	660.3	568.6	577.7	606.6	624.9	632.8	630.1
60°	2331.9	1865.6	1160.7	788.7	603.9	520.1	517.5	543.7	569.9	577.7	575.1
62.5°	2377.8	1880.0	1146.3	746.7	554.2	471.6	458.5	492.6	520.1	525.3	529.3
65°	2402.7	1881.3	1110.9	693.0	503.1	419.2	410.1	444.1	461.1	466.4	466.4
67.5°	2398.8	1860.3	1041.5	621.0	455.9	372.1	364.2	385.2	410.1	414.0	410.1
70°	2317.5	1773.9	930.2	545.0	399.6	330.1	315.7	336.7	360.3	345.9	339.3
72.5°	2087.0	1549.8	766.4	461.1	336.7	277.7	271.2	292.1	293.5	296.1	289.5
75°	1646.8	1154.2	573.8	359.0	272.5	233.2	231.9	228.0	233.2	243.7	235.8
77.5°	864.7	576.4	310.5	220.1	197.8	187.3	178.2	176.9	192.6	199.1	191.3
80°	469.0	323.6	178.2	132.3	120.5	121.8	133.6	131.0	148.0	152.0	145.4
82.5°	204.4	153.3	87.8	79.9	79.9	78.6	82.5	91.7	110.0	110.0	87.8
85°	44.5	38.0	34.1	39.3	44.5	44.5	44.5	44.5	31.4	17.0	11.8
87.5°	14.4	14.4	14.4	15.7	17.0	17.0	14.4	10.5	6.6	1.3	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)