

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: P477998

Luminaire Tested: **IFLD-S-SA2D-722-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477998
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-722-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

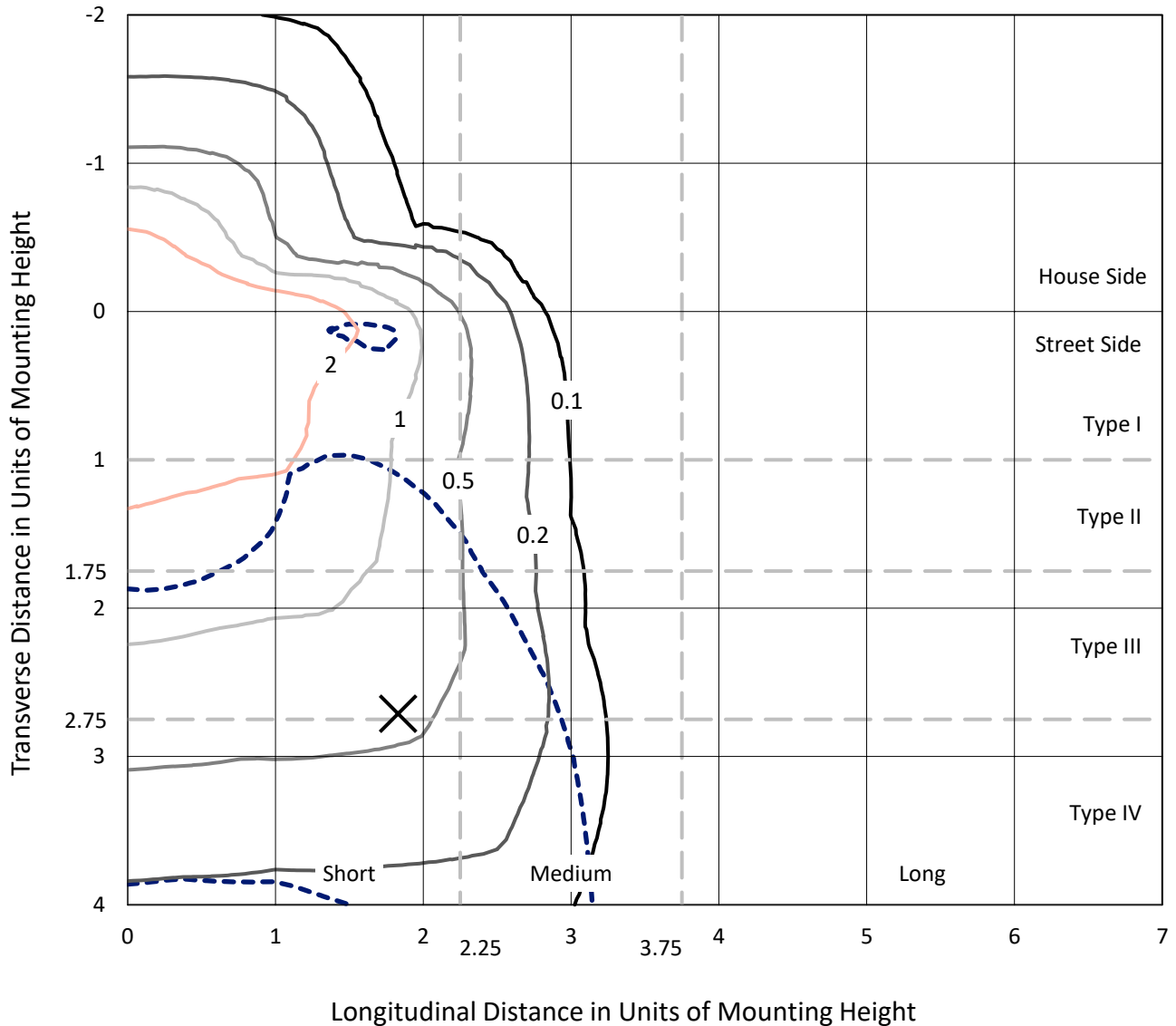
Lumens per Lamp: N/A
Luminaire Lumens: 11802.2 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 123.9
Input Voltage (V): 120
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

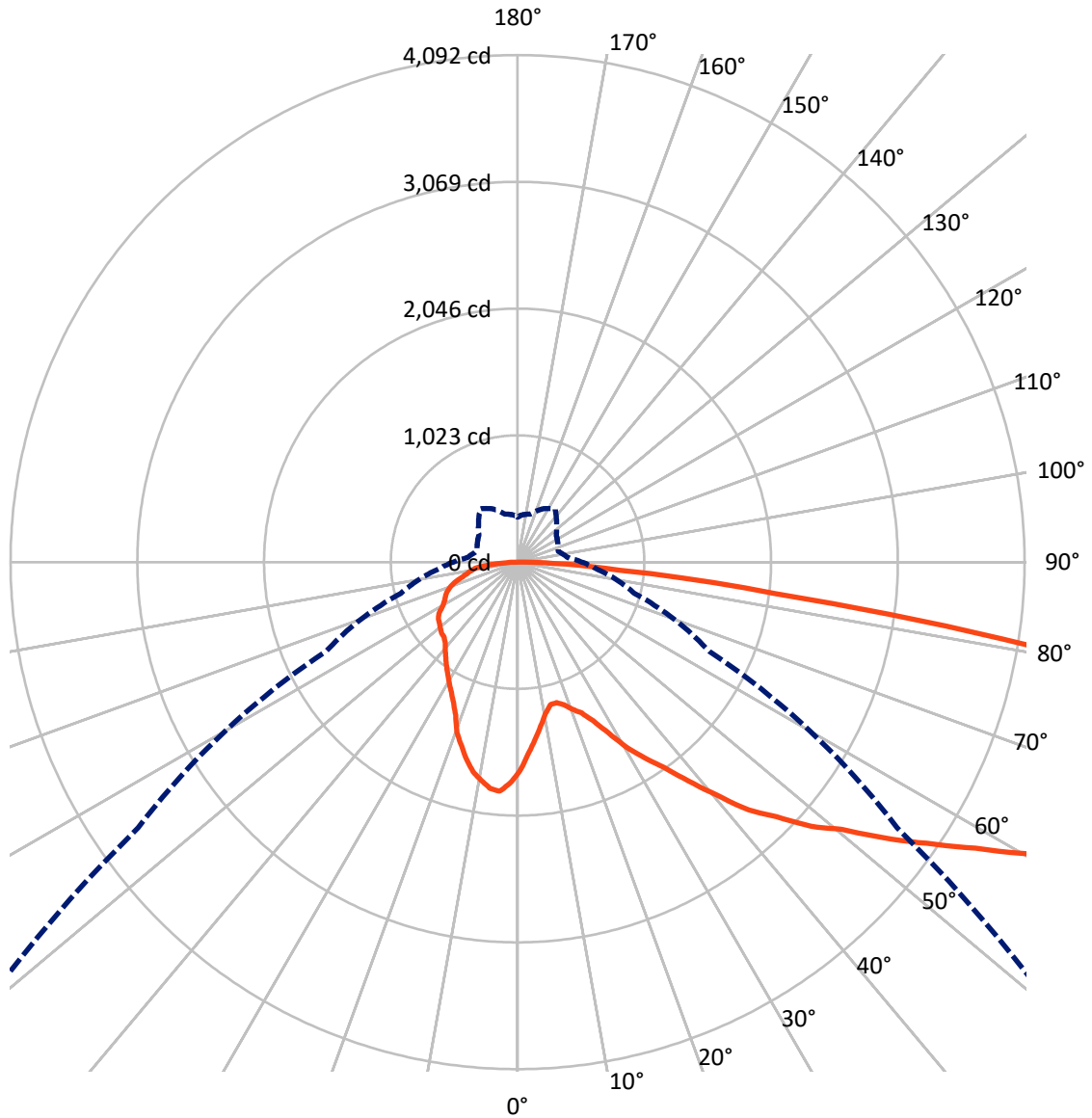
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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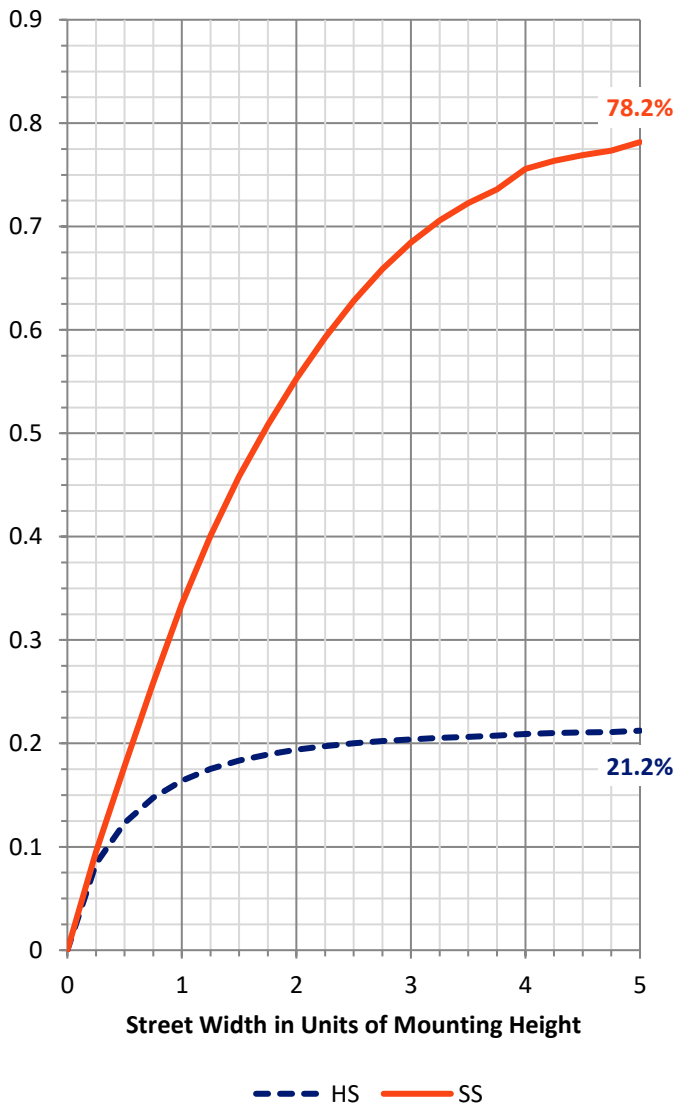
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2549.4	0.0	2549.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	9252.8	0.0	9252.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	11802.2	0.0	11802.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.2	1.3
10°-20°	437.0	3.7
20°-30°	719.3	6.1
30°-40°	1075.7	9.1
40°-50°	1594.7	13.5
50°-60°	2298.2	19.5
60°-70°	2932.8	24.8
70°-80°	2282.2	19.3
80°-90°	306.2	2.6
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°	11802.2	100.0
0°-180°	11802.2	100.0



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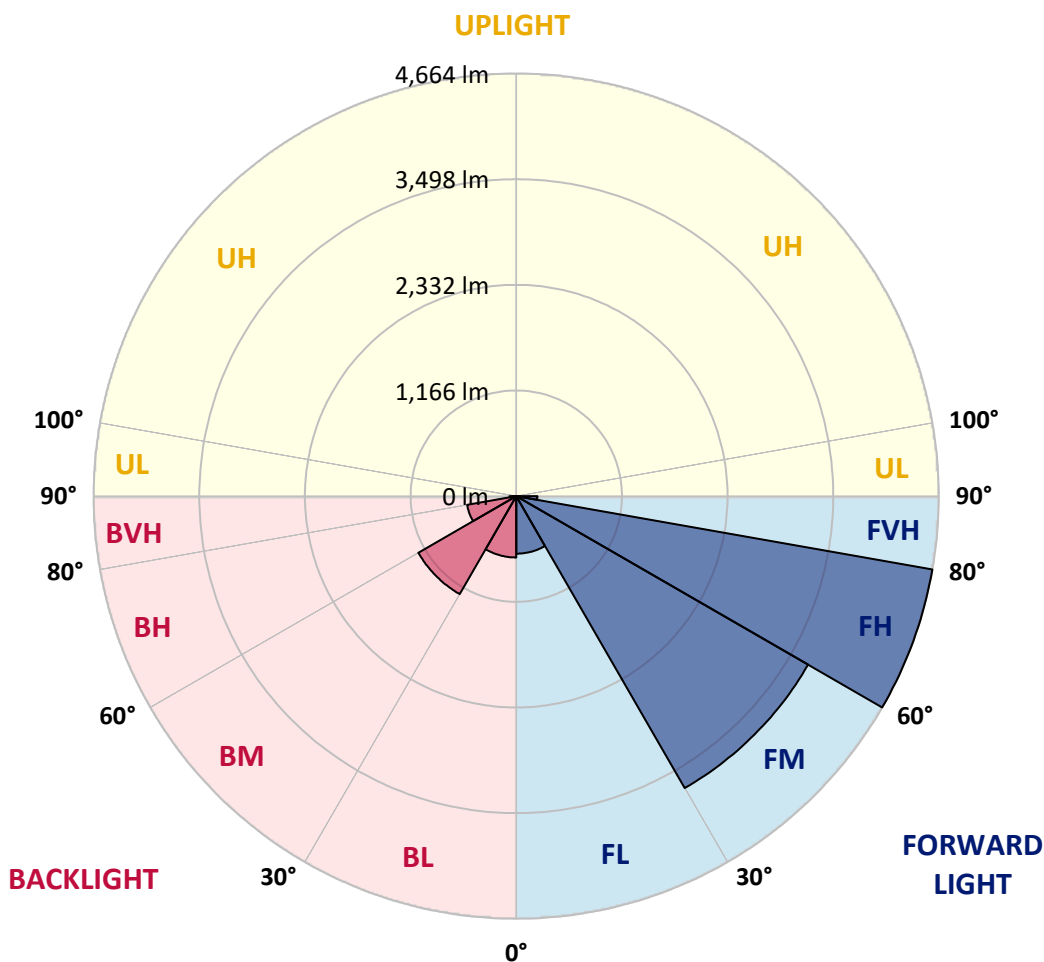
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	635.2	5.4			
FM (30°-60°)	3720.1	31.5			
FH (60°-80°)	4664.4	39.5			G2/5000
FVH (80°-90°)	233.0	2.0			G3/500
BL (0°-30°)	677.4	5.7	B2/1000		
BM (30°-60°)	1248.5	10.6	B2/2500		
BH (60°-80°)	550.5	4.7	B2/1000		G2/1000
BVH (80°-90°)	73.1	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0
2.5°	1516.1	1521.1	1537.3	1541.0	1558.5	1548.5	1569.7	1607.2	1628.4	1659.6	1697.0
5°	1396.3	1375.1	1385.1	1423.8	1443.7	1448.7	1471.2	1534.8	1574.7	1620.9	1690.8
7.5°	1255.3	1251.6	1271.5	1296.5	1336.4	1340.2	1390.1	1446.2	1528.6	1630.9	1713.2
10°	1159.2	1175.4	1186.7	1212.9	1240.3	1240.3	1304.0	1401.3	1494.9	1593.5	1718.2
12.5°	1154.2	1144.2	1146.7	1160.5	1180.4	1205.4	1265.3	1352.6	1471.2	1586.0	1739.4
15°	1170.4	1174.2	1151.7	1169.2	1176.7	1185.4	1251.6	1350.1	1456.2	1612.2	1775.6
17.5°	1256.5	1235.3	1200.4	1184.2	1210.4	1210.4	1255.3	1332.7	1458.7	1625.9	1828.0
20°	1323.9	1323.9	1266.5	1249.1	1267.8	1264.0	1295.2	1352.6	1471.2	1653.4	1886.7
22.5°	1437.5	1453.7	1358.9	1322.7	1321.4	1331.4	1358.9	1407.5	1506.1	1692.0	1942.8
25°	1600.9	1604.7	1494.9	1457.4	1417.5	1433.7	1438.7	1487.4	1537.3	1737.0	2006.5
27.5°	1783.1	1780.6	1679.6	1586.0	1559.8	1563.5	1536.1	1568.5	1583.5	1750.7	2097.6
30°	1985.3	1962.8	1886.7	1754.4	1733.2	1709.5	1649.6	1648.4	1679.6	1828.0	2223.6
32.5°	2117.5	2088.8	2036.4	1941.6	1882.9	1885.4	1790.6	1789.4	1761.9	1912.9	2333.4
35°	2247.3	2203.6	2189.9	2092.6	2033.9	2040.2	1964.1	1954.1	1904.2	2041.4	2514.3
37.5°	2403.3	2364.6	2385.8	2312.2	2239.8	2209.9	2174.9	2162.5	2097.6	2222.4	2761.4
40°	2575.5	2563.0	2549.3	2513.1	2469.4	2471.9	2434.5	2422.0	2325.9	2440.7	2998.5
42.5°	2807.6	2760.2	2689.0	2712.7	2735.2	2758.9	2746.4	2714.0	2614.2	2662.8	3263.0
45°	3023.4	2961.1	2830.0	2837.5	2929.9	2948.6	3099.6	3095.8	2894.9	2944.8	3563.8
47.5°	3169.4	3140.7	3062.1	3053.4	3185.7	3184.4	3456.4	3456.4	3190.7	3225.6	3886.9
50°	3386.6	3311.7	3278.0	3321.7	3389.1	3435.2	3820.8	3844.5	3481.4	3518.8	4309.9
52.5°	3641.1	3547.5	3462.7	3575.0	3694.8	3724.7	4181.4	4171.4	3704.8	3859.5	4805.3
55°	3852.0	3804.6	3745.9	3810.8	4006.7	4044.2	4543.3	4450.9	3928.1	4141.5	5043.7
57.5°	4097.8	4126.5	4139.0	4122.8	4356.1	4414.8	4956.3	4691.8	4120.3	4331.2	5183.4
60°	4468.4	4485.9	4502.1	4540.8	4787.9	4870.2	5283.2	4993.7	4241.3	4441.0	5194.6
62.5°	5032.4	4965.0	5001.2	5134.7	5333.1	5426.7	5764.9	5205.9	4333.7	4507.1	4827.8
65°	5677.5	5586.5	5549.0	5721.2	6235.3	6160.4	6366.3	5364.3	4200.1	4260.0	4094.1
67.5°	6331.4	6341.4	6245.3	6590.9	7221.1	7221.1	6925.4	5440.5	3838.3	3452.7	2871.2
70°	6850.5	6881.7	6934.1	7604.2	8602.4	8753.4	7617.9	5128.5	3100.8	2298.5	1569.7
72.5°	6843.0	6749.4	7017.7	8251.8	9857.7	9731.7	7762.6	4055.4	1935.4	1125.5	720.0
73°	6689.5	6610.9	6904.1	8245.5	9908.9	9790.3	7656.6	3738.4	1707.0	975.8	640.1
75°	5462.9	5320.7	5819.8	7468.2	9167.7	9258.8	6504.8	2438.2	935.9	601.4	450.5
77.5°	2490.6	2553.0	3203.1	5010.0	7065.1	7172.4	4276.3	1054.4	512.9	421.8	331.9
80°	799.8	839.8	1246.6	2490.6	4428.5	4621.9	1976.5	479.2	365.6	323.2	248.3
82.5°	305.7	304.5	522.8	1035.7	2098.8	2222.4	722.5	292.0	272.0	238.3	175.9
85°	107.3	112.3	197.2	409.3	826.1	864.7	250.8	162.2	188.4	159.7	101.1
87.5°	37.4	38.7	69.9	148.5	284.5	300.7	69.9	64.9	93.6	92.3	51.2
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°	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0	1692.0
2.5°	1709.5	1720.7	1724.5	1769.4	1769.4	1769.4	1786.9	1786.9	1781.9	1769.4	1799.3
5°	1717.0	1737.0	1775.6	1814.3	1824.3	1833.0	1856.7	1836.8	1844.3	1831.8	1843.0
7.5°	1738.2	1765.7	1838.0	1861.7	1845.5	1864.2	1839.3	1825.5	1811.8	1816.8	1799.3
10°	1774.4	1809.3	1843.0	1886.7	1855.5	1836.8	1785.6	1773.1	1729.5	1714.5	1728.2
12.5°	1819.3	1861.7	1919.1	1902.9	1843.0	1789.4	1734.5	1682.1	1655.8	1618.4	1628.4
15°	1864.2	1912.9	1921.6	1894.2	1819.3	1751.9	1652.1	1578.5	1552.3	1518.6	1536.1
17.5°	1912.9	1959.1	1944.1	1873.0	1771.9	1669.6	1556.0	1483.6	1428.7	1407.5	1407.5
20°	1985.3	2007.7	1984.0	1838.0	1714.5	1579.7	1469.9	1387.6	1332.7	1323.9	1310.2
22.5°	2041.4	2077.6	1971.5	1786.9	1630.9	1462.4	1336.4	1305.2	1289.0	1275.3	1257.8
25°	2113.8	2112.5	1949.1	1739.4	1487.4	1322.7	1246.6	1244.1	1236.6	1231.6	1255.3
27.5°	2182.4	2153.7	1922.9	1622.2	1338.9	1216.6	1175.4	1202.9	1214.1	1206.6	1216.6
30°	2291.0	2243.6	1885.4	1497.4	1207.9	1109.3	1116.8	1154.2	1172.9	1184.2	1169.2
32.5°	2405.8	2333.4	1808.1	1367.6	1091.8	1041.9	1059.4	1098.1	1120.5	1133.0	1146.7
35°	2571.7	2403.3	1729.5	1197.9	1008.2	1000.7	1010.7	1031.9	1064.4	1073.1	1076.9
37.5°	2776.4	2509.3	1623.4	1061.9	943.3	952.1	962.1	969.5	970.8	987.0	980.8
40°	2981.0	2599.2	1468.7	932.1	876.0	923.4	918.4	904.7	893.4	878.5	874.7
42.5°	3160.7	2677.8	1296.5	822.3	816.1	893.4	877.2	842.3	816.1	804.8	786.1
45°	3362.9	2788.9	1123.0	753.7	769.9	857.2	852.3	798.6	764.9	725.0	720.0
47.5°	3624.9	2904.9	957.1	682.6	726.2	843.5	846.0	777.4	728.7	675.1	667.6
50°	3960.6	3072.1	831.0	652.6	700.0	823.6	827.3	748.7	685.0	630.1	625.2
52.5°	4282.5	3243.1	726.2	606.4	682.6	799.8	808.6	722.5	648.9	580.2	584.0
55°	4444.7	3180.7	636.4	572.7	642.6	761.2	793.6	703.8	594.0	546.5	545.3
57.5°	4480.9	3027.2	565.3	537.8	608.9	720.0	768.7	647.6	569.0	529.1	524.1
60°	4362.4	2758.9	509.1	500.4	566.5	677.6	711.3	617.7	544.0	511.6	504.1
62.5°	4070.4	2480.7	470.4	482.9	530.3	631.4	675.1	596.5	520.3	497.9	481.7
65°	3337.9	2040.2	439.2	449.2	492.9	586.5	652.6	572.7	499.1	477.9	476.7
67.5°	2312.2	1406.3	414.3	433.0	462.9	554.0	630.1	546.5	471.7	464.2	454.2
70°	1184.2	749.9	381.8	396.8	430.5	512.9	590.2	519.1	443.0	441.7	429.2
72.5°	600.2	439.2	344.4	366.9	390.6	459.2	540.3	482.9	406.8	393.1	373.1
73°	519.1	406.8	338.2	358.1	380.6	444.2	525.3	474.2	401.8	381.8	363.1
75°	378.1	320.7	303.2	323.2	340.7	400.5	475.4	434.2	369.4	348.1	330.7
77.5°	283.3	247.1	252.1	274.5	289.5	345.6	423.0	393.1	334.4	305.7	298.2
80°	208.4	188.4	208.4	229.6	240.8	304.5	385.6	340.7	282.0	249.6	243.3
82.5°	148.5	137.3	161.0	174.7	179.7	252.1	346.9	272.0	213.4	171.0	157.2
85°	84.9	83.6	108.6	107.3	111.1	147.2	228.3	180.9	137.3	104.8	102.3
87.5°	37.4	41.2	54.9	43.7	46.2	69.9	97.3	67.4	56.2	31.2	23.7
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)