

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386627

Luminaire Tested: GAW-SA2B-740-U-T4FT

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2B-740-U-T4FT
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11998 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

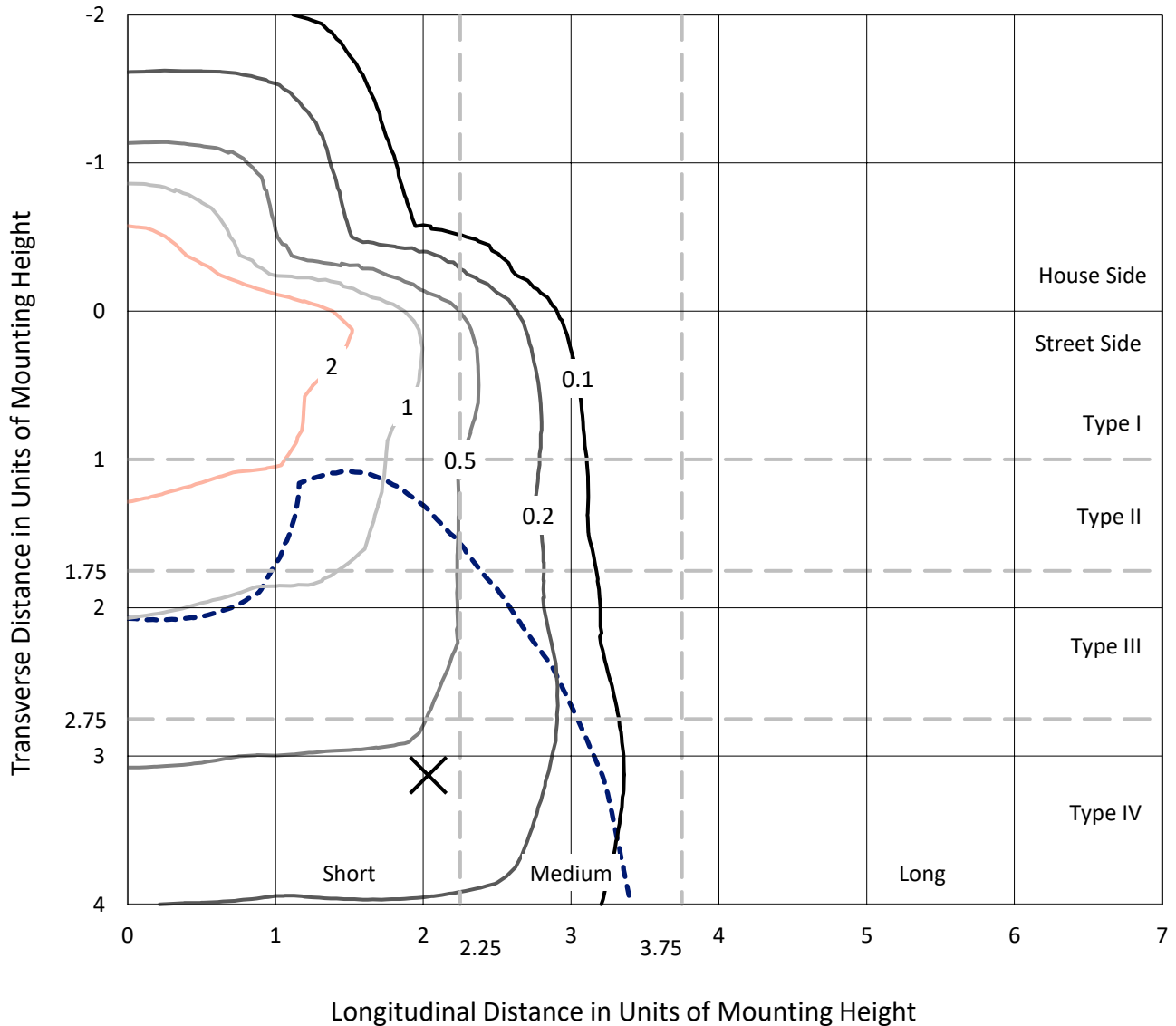
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

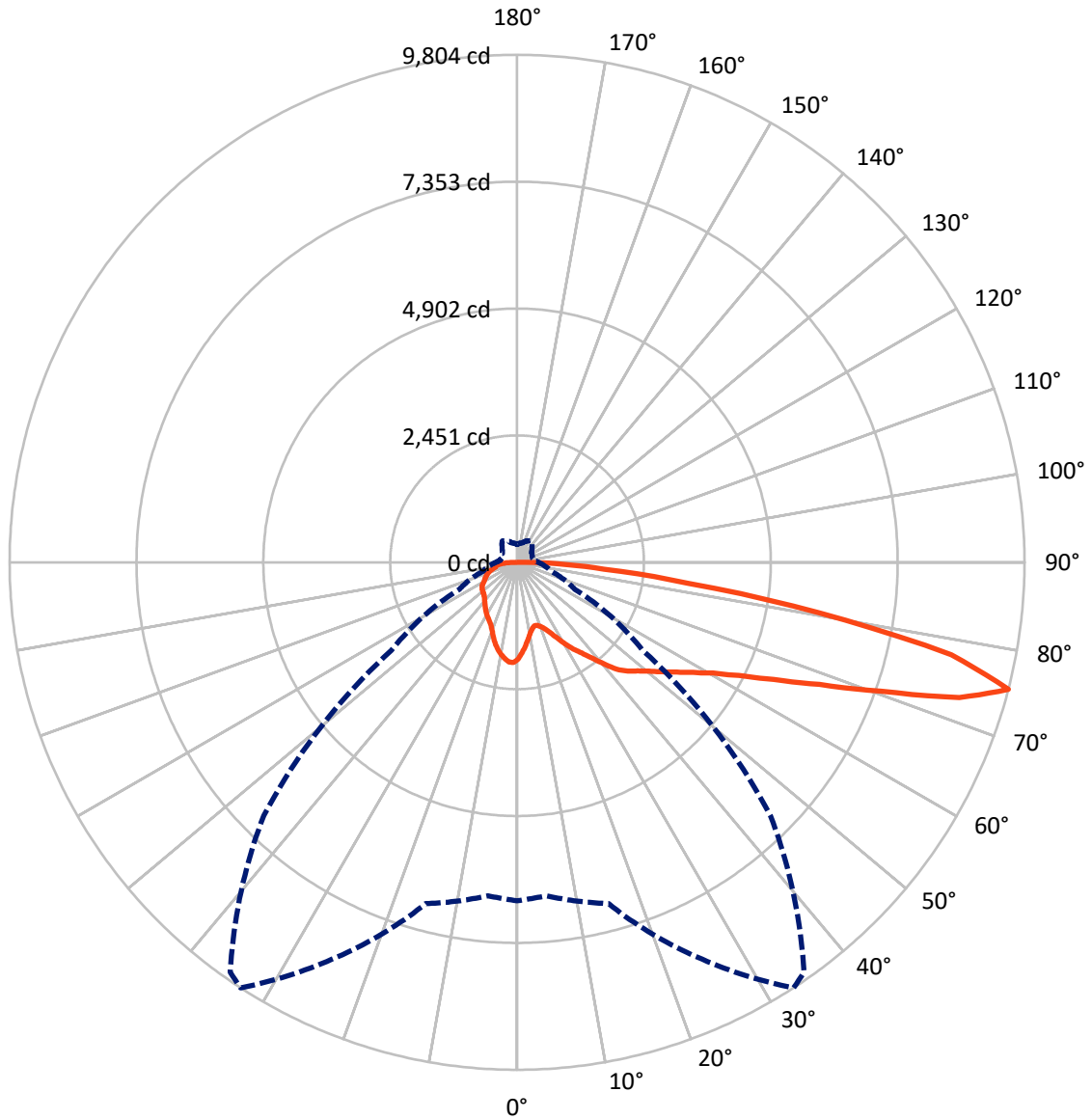
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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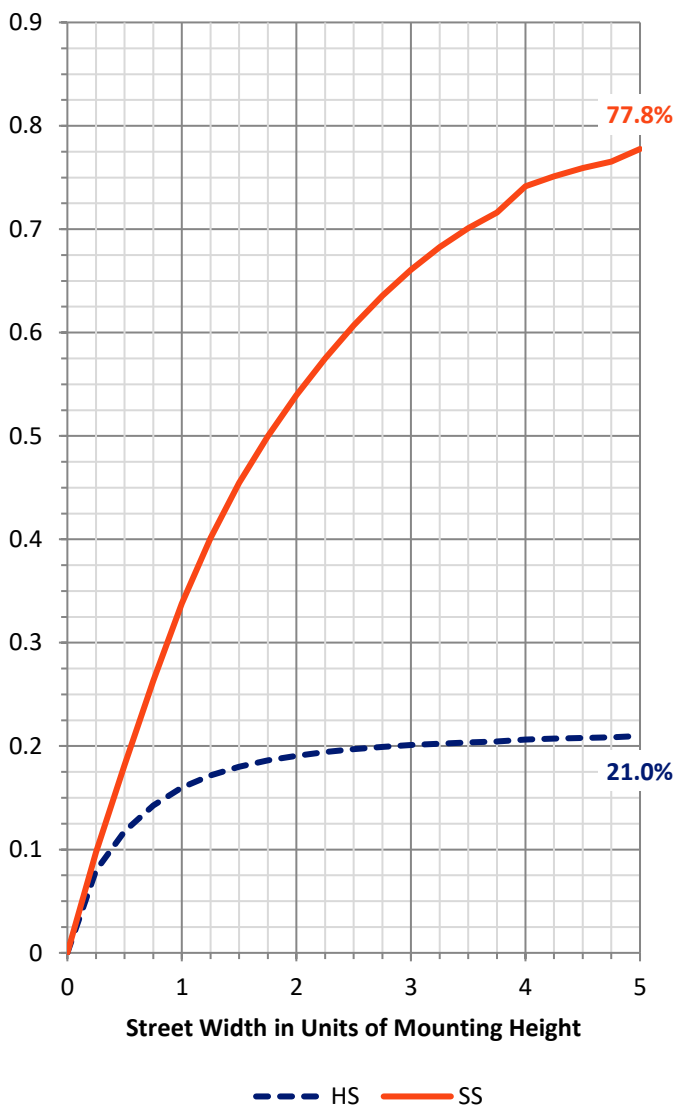
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2576.3	0.0	2576.3
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	9421.7	0.0	9421.7
	% Fixture	78.5	0.0	78.5
Total	Lumens	11998.0	0.0	11998.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.6	1.4
10°-20°	459.4	3.8
20°-30°	750.2	6.3
30°-40°	1117.2	9.3
40°-50°	1602.4	13.4
50°-60°	2199.8	18.3
60°-70°	2754.1	23.0
70°-80°	2491.5	20.8
80°-90°	453.8	3.8
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°	11998.0	100.0
0°-180°	11998.0	100.0

Coefficient of Utilization



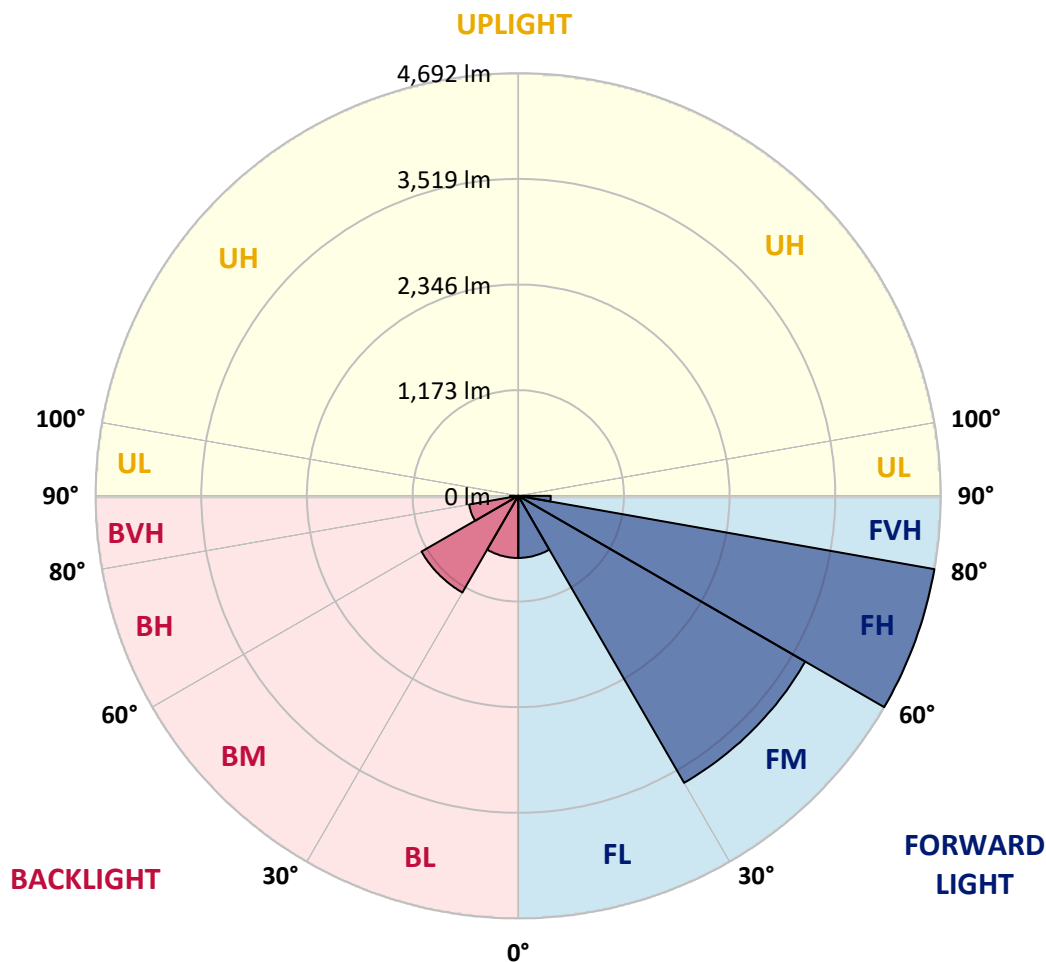
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	689.1	5.7			
FM (30°-60°)	3679.5	30.7			
FH (60°-80°)	4691.6	39.1			G2/5000
FVH (80°-90°)	361.4	3.0			G3/500
BL (0°-30°)	690.0	5.8	B2/1000		
BM (30°-60°)	1239.9	10.3	B2/2500		
BH (60°-80°)	553.9	4.6	B2/1000		G2/1000
BVH (80°-90°)	92.4	0.8			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°	33°	35°	45°	55°	65°	75°	85°
0°	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4
2.5°	1741.5	1734.9	1747.3	1748.9	1759.7	1763.9	1778.8	1802.0	1821.1	1843.0	1862.9
5°	1583.6	1579.0	1596.4	1608.9	1632.5	1642.4	1677.7	1727.0	1770.9	1820.6	1865.8
7.5°	1433.6	1431.1	1450.6	1478.7	1506.1	1519.8	1580.7	1652.4	1725.7	1806.1	1875.4
10°	1307.2	1306.3	1325.0	1352.7	1392.9	1408.3	1487.0	1581.5	1684.3	1795.0	1891.5
12.5°	1236.3	1239.2	1247.9	1271.1	1308.4	1323.7	1411.2	1522.2	1649.5	1791.2	1915.1
15°	1253.7	1258.2	1243.3	1242.5	1269.0	1281.0	1363.1	1480.0	1624.6	1797.4	1949.5
17.5°	1327.9	1328.7	1289.3	1264.5	1280.6	1286.8	1348.2	1455.9	1610.1	1811.5	1992.6
20°	1432.3	1430.2	1360.6	1319.2	1327.9	1329.5	1369.3	1456.4	1608.9	1836.0	2048.6
22.5°	1570.7	1555.4	1461.7	1405.4	1403.3	1400.8	1423.6	1487.0	1627.1	1875.8	2115.3
25°	1751.4	1736.9	1608.0	1531.0	1514.4	1508.2	1511.5	1552.5	1663.2	1918.5	2189.9
27.5°	1952.4	1927.2	1802.8	1693.8	1659.4	1650.7	1630.8	1644.9	1702.5	1959.5	2278.6
30°	2120.7	2107.0	1998.4	1869.1	1828.5	1816.1	1763.9	1748.5	1759.3	2015.4	2390.5
32.5°	2214.8	2205.7	2139.8	2035.3	1997.6	1980.2	1906.4	1875.8	1850.5	2103.7	2542.2
35°	2328.8	2323.0	2283.2	2207.3	2151.4	2133.1	2075.9	2044.0	1979.0	2225.1	2738.2
37.5°	2473.8	2467.6	2468.4	2407.1	2340.4	2323.4	2285.7	2252.1	2145.6	2384.7	2951.2
40°	2637.9	2625.9	2621.4	2618.5	2576.2	2566.6	2546.8	2501.2	2354.5	2575.3	3161.4
42.5°	2884.9	2842.3	2751.1	2785.5	2827.3	2822.4	2838.5	2773.0	2586.5	2800.8	3366.5
45°	3123.2	3053.2	2895.7	2903.2	2994.8	3022.5	3143.6	3097.1	2838.1	3047.8	3578.7
47.5°	3231.8	3178.8	3044.9	3045.3	3136.1	3193.7	3458.9	3425.8	3102.5	3328.4	3837.7
50°	3353.3	3300.2	3180.0	3225.2	3304.4	3365.7	3763.6	3746.6	3354.1	3635.5	4148.2
52.5°	3485.9	3395.9	3319.7	3400.5	3511.6	3582.9	4068.6	4022.2	3584.9	3944.7	4505.0
55°	3487.5	3463.1	3521.1	3580.4	3746.6	3834.0	4388.1	4265.4	3773.1	4248.5	4795.5
57.5°	3686.1	3646.3	3769.4	3796.7	4013.9	4112.5	4706.0	4477.2	3964.6	4481.4	4952.2
60°	3948.8	3914.8	4015.5	4087.7	4344.6	4476.4	5045.4	4694.8	4115.0	4657.1	4944.7
62.5°	4402.6	4364.1	4362.8	4464.0	4810.0	4963.4	5426.3	4908.2	4174.7	4691.9	4733.8
65°	5067.0	5005.6	4890.0	4938.1	5452.8	5605.8	5851.9	5062.8	4095.9	4505.4	4190.4
67.5°	5713.5	5711.4	5569.3	5667.9	6301.6	6424.3	6336.8	5078.2	3850.2	3856.0	3226.4
70°	6358.0	6366.3	6342.2	6685.4	7448.4	7576.0	6853.2	4872.2	3297.7	2784.6	1933.0
72.5°	6868.6	6866.5	6987.5	7872.3	8936.6	8908.0	7288.4	4248.0	2367.7	1503.2	923.8
75°	6537.8	6465.7	6826.3	8460.0	9804.1	9664.4	6918.3	2963.3	1228.8	684.2	497.3
77.5°	4264.2	4332.6	4861.8	6988.8	8575.7	8405.7	5075.7	1382.6	579.0	448.8	360.6
80°	1544.2	1616.3	2276.5	3958.8	5908.3	5880.5	2499.5	568.2	391.6	339.0	262.8
82.5°	531.3	557.8	898.1	1758.1	3335.9	3460.2	940.4	322.9	284.7	240.4	179.9
85°	208.5	238.7	410.7	845.9	1682.6	1695.1	380.9	193.1	198.1	157.5	98.6
87.5°	79.2	96.2	196.4	392.9	768.4	705.8	136.4	92.0	112.7	93.7	46.8
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°	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4
2.5°	1878.3	1887.0	1905.2	1917.6	1930.9	1934.6	1936.3	1939.6	1942.9	1941.7	1942.1
5°	1889.9	1906.9	1936.3	1948.7	1954.5	1947.9	1935.0	1924.7	1917.2	1913.1	1911.8
7.5°	1908.9	1933.0	1964.5	1962.4	1949.1	1919.7	1886.5	1861.7	1841.0	1833.5	1829.4
10°	1934.2	1962.4	1984.4	1960.7	1922.2	1871.2	1821.5	1782.9	1751.9	1739.8	1737.8
12.5°	1966.5	1995.1	1999.3	1949.1	1885.3	1815.7	1748.1	1697.1	1650.7	1635.8	1632.5
15°	2008.4	2035.3	2009.6	1928.8	1839.7	1746.0	1658.6	1589.4	1540.5	1522.2	1515.6
17.5°	2052.3	2078.0	2011.7	1895.2	1780.0	1663.6	1553.7	1482.9	1426.9	1405.8	1403.3
20°	2105.0	2116.6	2003.0	1847.2	1698.0	1556.6	1441.0	1374.3	1344.5	1329.5	1327.9
22.5°	2170.0	2157.6	1983.1	1782.1	1593.9	1433.1	1339.1	1308.0	1300.5	1297.2	1298.4
25°	2238.8	2200.7	1953.7	1697.1	1462.6	1309.6	1264.5	1273.2	1283.1	1281.9	1281.9
27.5°	2314.7	2244.6	1908.5	1584.4	1317.1	1208.5	1213.9	1245.8	1260.7	1260.3	1259.9
30°	2412.1	2294.4	1850.9	1448.9	1181.2	1137.2	1170.0	1208.9	1229.2	1228.4	1228.8
32.5°	2531.8	2349.1	1772.6	1297.6	1082.9	1084.6	1122.3	1160.9	1184.5	1182.4	1182.8
35°	2671.9	2410.4	1666.5	1148.4	1017.9	1042.7	1072.6	1099.5	1121.9	1119.0	1116.1
37.5°	2824.4	2470.5	1525.6	1015.0	964.8	1003.8	1028.6	1033.2	1043.6	1036.1	1030.7
40°	2969.5	2516.5	1344.0	905.6	911.4	970.6	986.8	968.6	949.9	947.4	940.0
42.5°	3095.9	2531.8	1160.4	818.1	855.0	935.8	945.8	907.6	874.1	858.3	851.7
45°	3229.3	2537.2	989.3	744.8	800.7	904.7	915.5	864.5	817.3	783.3	772.1
47.5°	3403.8	2576.2	856.2	690.5	759.3	884.0	899.3	830.1	768.8	720.3	709.9
50°	3632.2	2653.3	748.1	649.0	732.3	870.3	887.7	796.6	729.0	670.6	660.2
52.5°	3885.8	2724.1	660.6	615.4	706.2	846.3	872.8	772.5	691.7	624.6	613.4
55°	4063.2	2669.8	590.2	580.6	672.2	811.9	852.1	752.2	638.2	579.8	569.9
57.5°	4097.2	2484.2	536.7	544.6	631.2	768.8	820.2	707.0	609.2	560.3	550.0
60°	4004.3	2225.6	496.9	511.4	587.3	714.5	760.5	675.1	581.5	539.6	530.9
62.5°	3771.0	1960.7	467.5	481.6	546.2	659.4	723.2	641.6	553.3	516.0	507.3
65°	3299.8	1646.2	439.3	455.1	508.1	611.7	689.6	610.5	525.5	496.9	488.6
67.5°	2490.8	1233.0	412.8	426.9	474.1	570.3	653.2	579.8	498.6	480.3	470.4
70°	1466.7	772.1	382.5	397.5	438.5	527.2	614.2	546.2	465.0	456.7	443.9
72.5°	682.6	464.6	348.1	362.6	393.7	469.6	564.1	502.3	425.2	407.0	389.6
75°	407.4	339.8	307.5	320.4	342.3	408.2	501.1	457.5	387.5	363.5	345.2
77.5°	304.6	259.9	262.8	276.4	294.3	357.2	443.9	422.3	358.5	339.8	327.4
80°	219.2	197.3	214.3	229.2	247.8	324.9	425.2	390.4	324.1	299.2	287.6
82.5°	146.3	141.7	161.2	176.6	194.8	284.3	399.5	341.9	276.8	245.4	219.7
85°	80.8	85.4	108.6	115.2	131.0	200.2	327.4	274.8	208.5	167.8	160.4
87.5°	33.6	39.4	58.4	56.4	69.6	119.4	215.5	165.8	132.6	99.1	77.1
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)