

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: P318716

Luminaire Tested: **GAN-SA2B-740-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318716
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 (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-740-U-T4FT
Description: GALLEON AREA AND ROADWAY 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: 11763 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

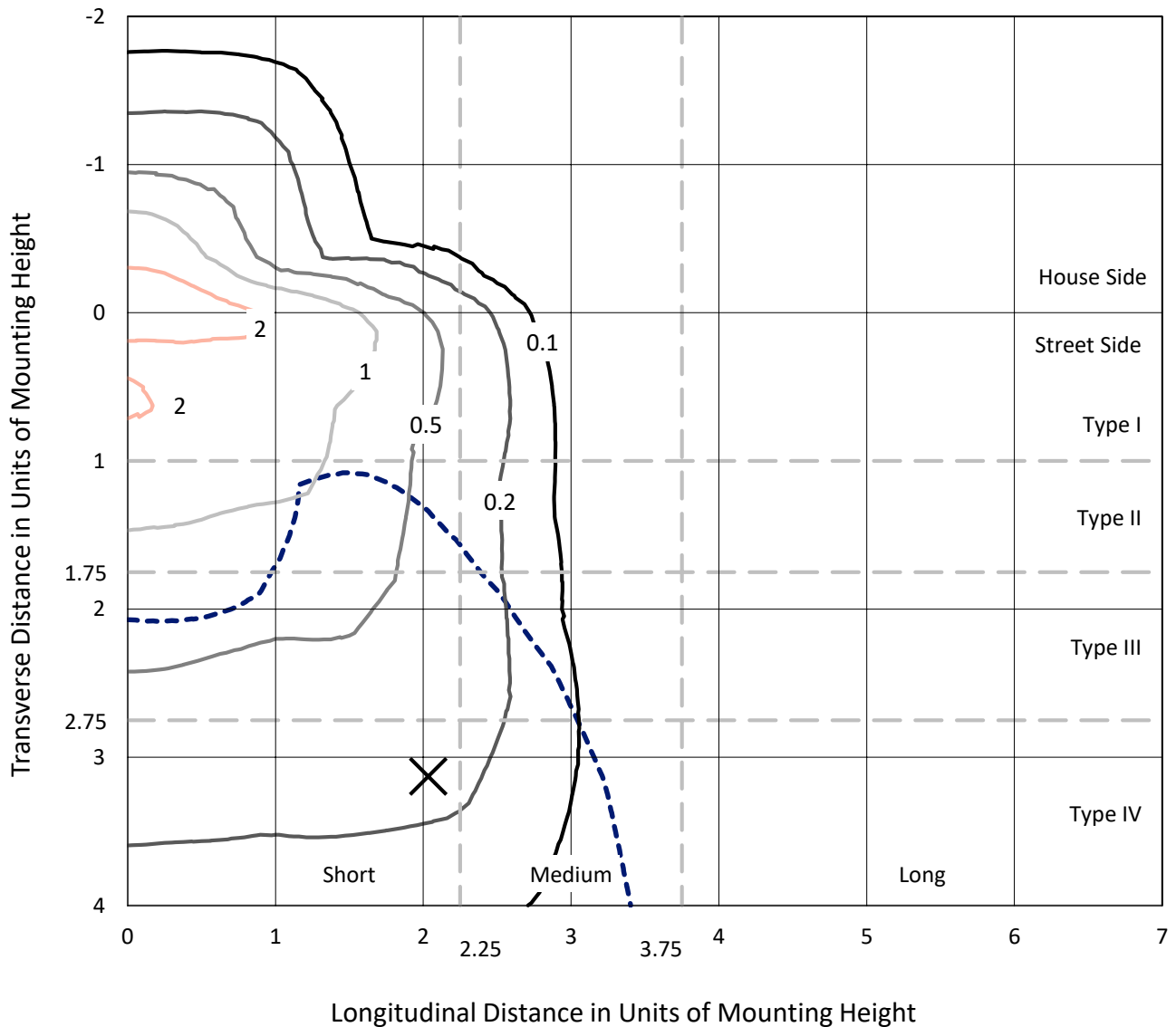
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

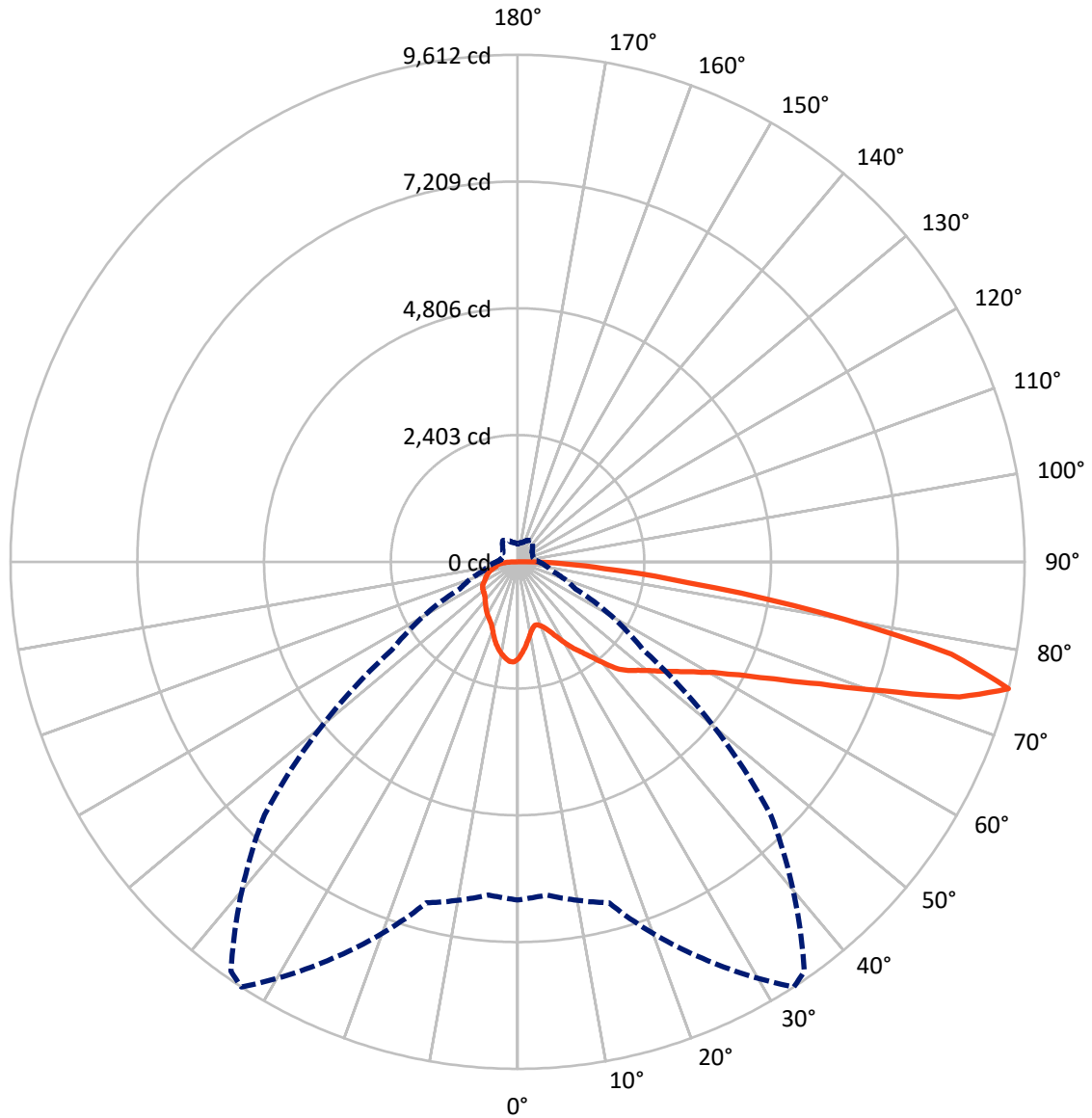
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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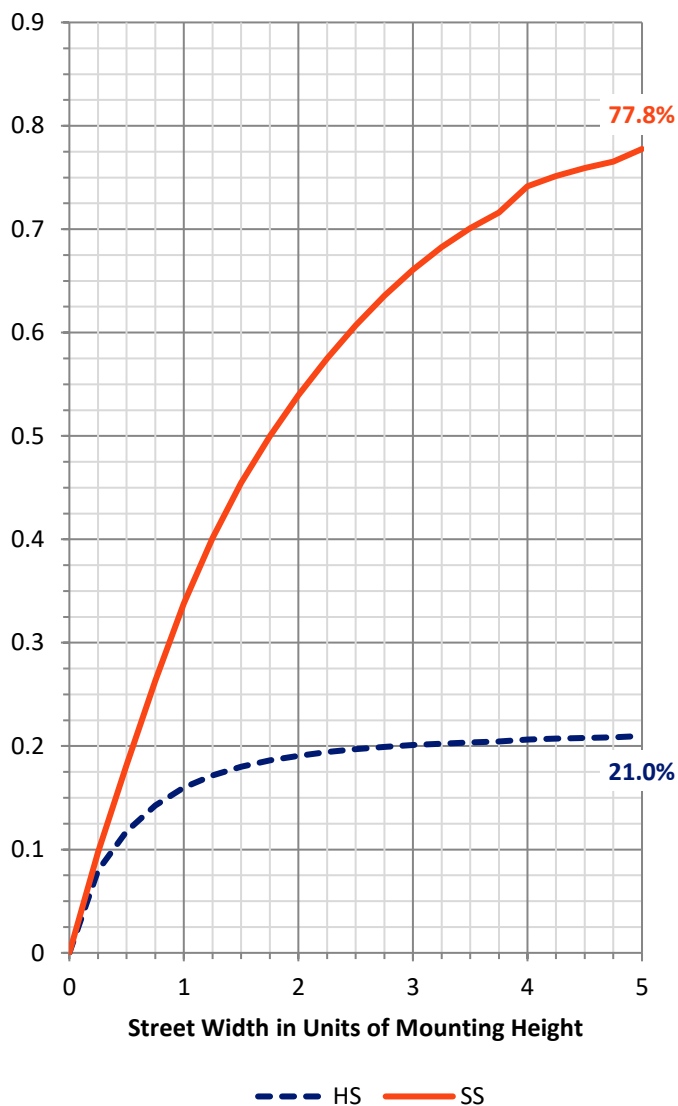
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2525.8	0.0	2525.8
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	9237.2	0.0	9237.2
	% Fixture	78.5	0.0	78.5
Total	Lumens	11763.0	0.0	11763.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.3	1.4
10°-20°	450.4	3.8
20°-30°	735.5	6.3
30°-40°	1095.3	9.3
40°-50°	1571.0	13.4
50°-60°	2156.7	18.3
60°-70°	2700.1	23.0
70°-80°	2442.7	20.8
80°-90°	445.0	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°	11763.0	100.0
0°-180°	11763.0	100.0

Coefficient of Utilization



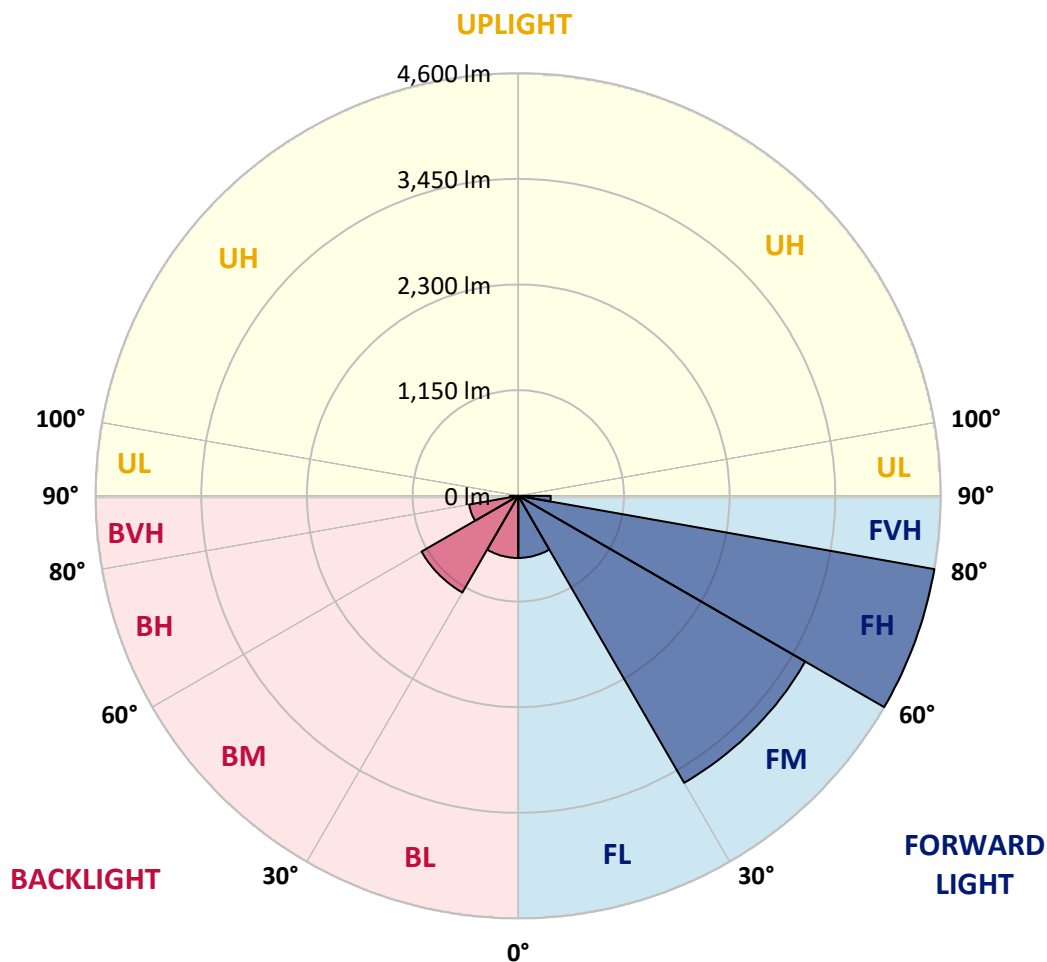
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	675.6	5.7			
FM (30°-60°)	3607.5	30.7			
FH (60°-80°)	4599.7	39.1			G2/5000
FVH (80°-90°)	354.4	3.0			G3/500
BL (0°-30°)	676.5	5.8	B2/1000		
BM (30°-60°)	1215.6	10.3	B2/2500		
BH (60°-80°)	543.1	4.6	B2/1000		G2/1000
BVH (80°-90°)	90.6	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°	1838.6	1838.6	1838.6	1838.6	1838.6	1838.6	1838.6	1838.6	1838.6	1838.6	1838.6
2.5°	1707.4	1700.9	1713.1	1714.7	1725.3	1729.3	1743.9	1766.7	1785.4	1806.9	1826.4
5°	1552.6	1548.1	1565.2	1577.4	1600.5	1610.3	1644.8	1693.2	1736.2	1785.0	1829.3
7.5°	1405.5	1403.0	1422.1	1449.8	1476.6	1490.0	1549.7	1620.0	1691.9	1770.8	1838.6
10°	1281.6	1280.7	1299.0	1326.2	1365.7	1380.7	1457.9	1550.5	1651.3	1759.8	1854.5
12.5°	1212.1	1214.9	1223.4	1246.2	1282.8	1297.8	1383.5	1492.4	1617.2	1756.1	1877.6
15°	1229.1	1233.6	1219.0	1218.2	1244.2	1256.0	1336.4	1451.0	1592.8	1762.2	1911.4
17.5°	1301.9	1302.7	1264.1	1239.7	1255.5	1261.6	1321.8	1427.4	1578.6	1776.0	1953.6
20°	1404.3	1402.2	1334.0	1293.3	1301.9	1303.5	1342.5	1427.8	1577.4	1800.0	2008.5
22.5°	1540.0	1524.9	1433.1	1377.8	1375.8	1373.4	1395.7	1457.9	1595.2	1839.0	2073.9
25°	1717.1	1702.9	1576.5	1501.0	1484.7	1478.6	1481.9	1522.1	1630.6	1880.9	2147.0
27.5°	1914.2	1889.4	1767.5	1660.7	1626.9	1618.4	1598.9	1612.7	1669.2	1921.1	2234.0
30°	2079.2	2065.8	1959.3	1832.5	1792.7	1780.5	1729.3	1714.3	1724.9	1976.0	2343.7
32.5°	2171.4	2162.5	2097.9	1995.5	1958.5	1941.4	1869.1	1839.0	1814.2	2062.5	2492.4
35°	2283.1	2277.5	2238.4	2164.1	2109.2	2091.4	2035.3	2004.0	1940.2	2181.6	2684.6
37.5°	2425.4	2419.3	2420.1	2359.9	2294.5	2277.9	2240.9	2208.0	2103.5	2338.0	2893.4
40°	2586.3	2574.5	2570.0	2567.2	2525.7	2516.4	2496.9	2452.2	2308.3	2524.9	3099.5
42.5°	2828.4	2786.6	2697.2	2730.9	2772.0	2767.1	2782.9	2718.7	2535.9	2745.9	3300.6
45°	3062.1	2993.4	2839.0	2846.3	2936.1	2963.3	3082.0	3036.5	2782.5	2988.1	3508.6
47.5°	3168.5	3116.5	2985.3	2985.7	3074.7	3131.1	3391.2	3358.7	3041.8	3263.2	3762.6
50°	3287.6	3235.6	3117.7	3162.0	3239.6	3299.8	3689.8	3673.2	3288.4	3564.3	4066.9
52.5°	3417.6	3329.4	3254.7	3333.9	3442.8	3512.7	3988.9	3943.4	3514.7	3867.4	4416.8
55°	3419.2	3395.3	3452.1	3510.2	3673.2	3758.9	4302.2	4181.9	3699.2	4165.2	4701.6
57.5°	3613.9	3574.9	3695.5	3722.3	3935.3	4032.0	4613.8	4389.5	3886.9	4393.6	4855.2
60°	3871.5	3838.2	3936.9	4007.6	4259.5	4388.7	4946.6	4602.9	4034.4	4565.9	4847.9
62.5°	4316.4	4278.6	4277.4	4376.5	4715.8	4866.2	5320.0	4812.1	4092.9	4600.0	4641.0
65°	4967.7	4907.6	4794.2	4841.4	5346.0	5496.0	5737.3	4963.7	4015.7	4417.2	4108.4
67.5°	5601.6	5599.6	5460.2	5556.9	6178.2	6298.5	6212.7	4978.7	3774.8	3780.5	3163.2
70°	6233.4	6241.6	6218.0	6554.4	7302.5	7427.6	6719.0	4776.8	3233.1	2730.1	1895.1
72.5°	6734.0	6732.0	6850.6	7718.2	8761.6	8733.6	7145.6	4164.8	2321.3	1473.7	905.7
75°	6409.8	6339.1	6692.6	8294.3	9612.0	9475.1	6782.8	2905.2	1204.8	670.8	487.6
77.5°	4180.7	4247.7	4766.6	6851.9	8407.7	8241.1	4976.3	1355.5	567.6	440.1	353.5
80°	1514.0	1584.7	2231.9	3881.2	5792.6	5765.4	2450.5	557.1	384.0	332.4	257.6
82.5°	520.9	546.9	880.5	1723.6	3270.5	3392.4	922.0	316.5	279.1	235.7	176.3
85°	204.4	234.0	402.7	829.3	1649.7	1661.9	373.4	189.3	194.2	154.4	96.7
87.5°	77.6	94.3	192.6	385.2	753.3	692.0	133.7	90.2	110.5	91.8	45.9
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°	1838.6	1838.6	1838.6	1838.6	1838.6	1838.6	1838.6	1838.6	1838.6	1838.6	1838.6
2.5°	1841.5	1850.0	1867.9	1880.1	1893.1	1896.7	1898.4	1901.6	1904.9	1903.6	1904.0
5°	1852.8	1869.5	1898.4	1910.5	1916.2	1909.7	1897.1	1887.0	1879.7	1875.6	1874.4
7.5°	1871.5	1895.1	1926.0	1924.0	1910.9	1882.1	1849.6	1825.2	1804.9	1797.6	1793.5
10°	1896.3	1924.0	1945.5	1922.3	1884.5	1834.6	1785.8	1748.0	1717.5	1705.8	1703.7
12.5°	1928.0	1956.1	1960.1	1910.9	1848.4	1780.1	1713.9	1663.9	1618.4	1603.8	1600.5
15°	1969.1	1995.5	1970.3	1891.0	1803.7	1711.8	1626.1	1558.3	1510.3	1492.4	1485.9
17.5°	2012.1	2037.3	1972.3	1858.1	1745.2	1631.0	1523.3	1453.8	1399.0	1378.3	1375.8
20°	2063.7	2075.1	1963.8	1811.0	1664.7	1526.2	1412.8	1347.4	1318.1	1303.5	1301.9
22.5°	2127.5	2115.3	1944.3	1747.2	1562.7	1405.1	1312.8	1282.4	1275.0	1271.8	1273.0
25°	2195.0	2157.6	1915.4	1663.9	1433.9	1284.0	1239.7	1248.2	1258.0	1256.8	1256.8
27.5°	2269.3	2200.7	1871.1	1553.4	1291.3	1184.8	1190.1	1221.4	1236.0	1235.6	1235.2
30°	2364.8	2249.4	1814.6	1420.5	1158.0	1115.0	1147.1	1185.3	1205.2	1204.3	1204.8
32.5°	2482.2	2303.1	1737.9	1272.2	1061.7	1063.4	1100.3	1138.1	1161.3	1159.2	1159.7
35°	2619.6	2363.2	1633.8	1125.9	997.9	1022.3	1051.6	1078.0	1099.9	1097.1	1094.2
37.5°	2769.1	2422.1	1495.7	995.1	945.9	984.1	1008.5	1013.0	1023.1	1015.8	1010.5
40°	2911.3	2467.2	1317.7	887.8	893.5	951.6	967.5	949.6	931.3	928.9	921.5
42.5°	3035.3	2482.2	1137.7	802.1	838.2	917.5	927.2	889.9	856.9	841.5	835.0
45°	3166.1	2487.5	969.9	730.2	785.0	887.0	897.6	847.6	801.3	768.0	757.0
47.5°	3337.2	2525.7	839.5	676.9	744.4	866.7	881.7	813.9	753.7	706.2	696.0
50°	3561.0	2601.3	733.4	636.3	718.0	853.3	870.3	781.0	714.7	657.4	647.3
52.5°	3809.7	2670.8	647.7	603.4	692.4	829.7	855.7	757.4	678.2	612.3	601.4
55°	3983.6	2617.5	578.6	569.3	659.1	796.0	835.4	737.5	625.7	568.4	558.7
57.5°	4016.9	2435.5	526.2	533.9	618.8	753.7	804.1	693.2	597.3	549.4	539.2
60°	3925.9	2182.0	487.2	501.4	575.8	700.5	745.6	661.9	570.1	529.0	520.5
62.5°	3697.2	1922.3	458.3	472.2	535.5	646.5	709.0	629.0	542.4	505.9	497.3
65°	3235.2	1613.9	430.7	446.1	498.2	599.7	676.1	598.5	515.2	487.2	479.1
67.5°	2442.0	1208.8	404.7	418.5	464.8	559.1	640.4	568.4	488.8	470.9	461.2
70°	1438.0	757.0	375.0	389.7	429.9	516.8	602.2	535.5	455.9	447.8	435.2
72.5°	669.2	455.5	341.3	355.5	386.0	460.4	553.0	492.5	416.9	399.0	381.9
75°	399.4	333.2	301.5	314.1	335.6	400.2	491.2	448.6	379.9	356.3	338.5
77.5°	298.6	254.8	257.6	271.0	288.5	350.3	435.2	414.0	351.5	333.2	321.0
80°	214.9	193.4	210.1	224.7	243.0	318.6	416.9	382.8	317.7	293.4	282.0
82.5°	143.4	139.0	158.1	173.1	191.0	278.7	391.7	335.2	271.4	240.5	215.4
85°	79.2	83.7	106.5	113.0	128.4	196.3	321.0	269.4	204.4	164.6	157.2
87.5°	32.9	38.6	57.3	55.3	68.3	117.0	211.3	162.5	130.0	97.1	75.6
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)