

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: P387159

Luminaire Tested: GAW-SA2D-827-U-T4FT

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P387159  
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-SA2D-827-U-T4FT  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 2700K, 1200mA 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: 11975 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

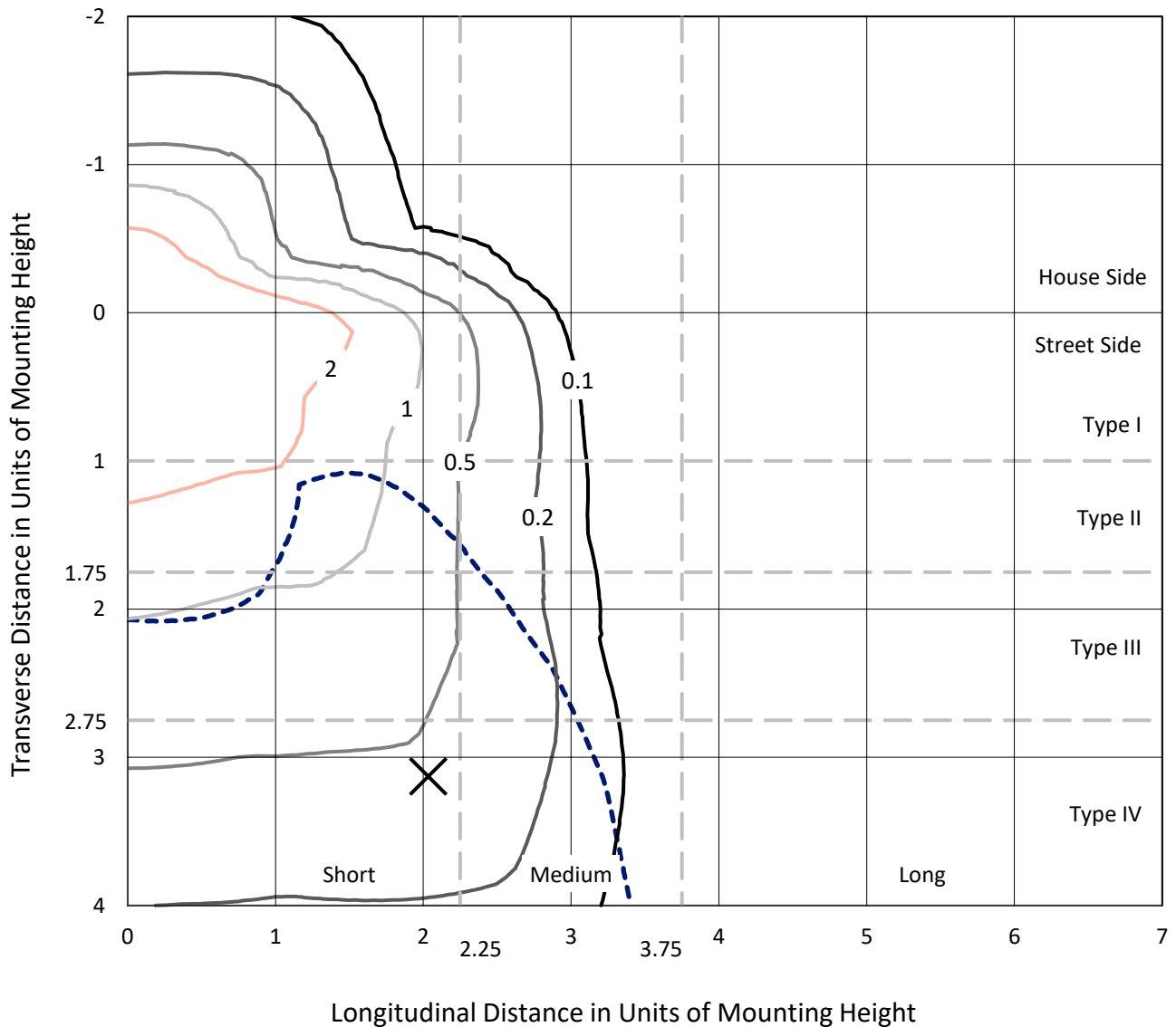
Input Watts (W): 128  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

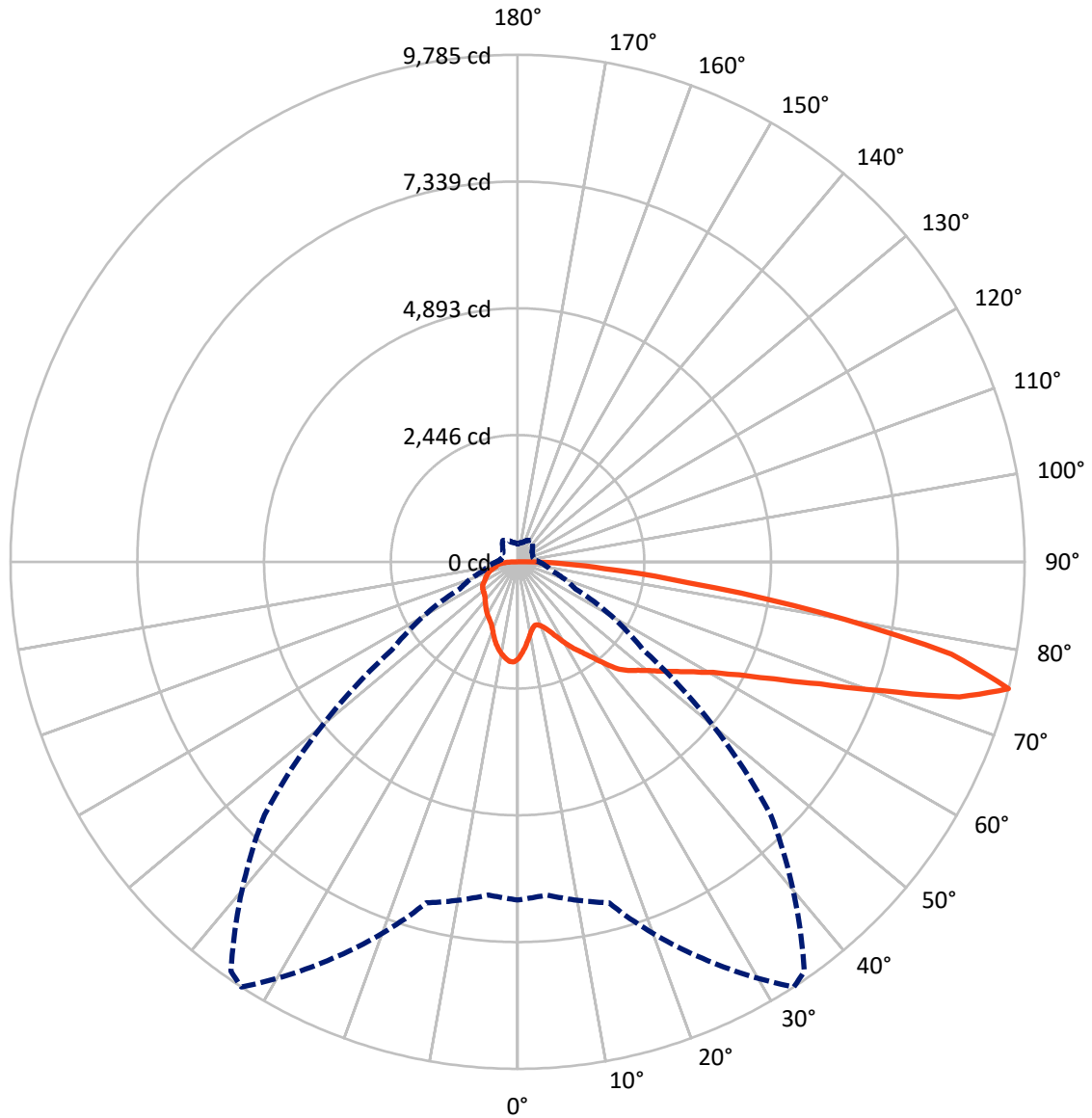
✕ Max cd  
 - - - 1/2 Max cd



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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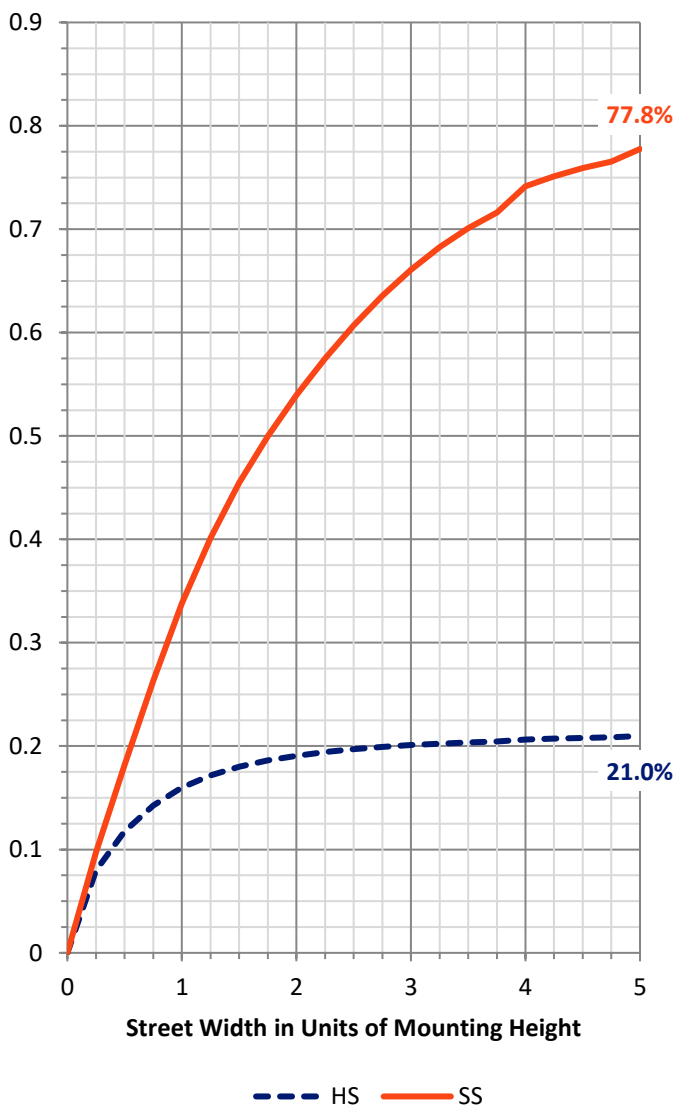
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2571.4	0.0	2571.4
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	9403.7	0.0	9403.7
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	11975.0	0.0	11975.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.3	1.4
10°-20°	458.5	3.8
20°-30°	748.8	6.3
30°-40°	1115.1	9.3
40°-50°	1599.3	13.4
50°-60°	2195.6	18.3
60°-70°	2748.8	23.0
70°-80°	2486.7	20.8
80°-90°	453.0	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°	11975.0	100.0
0°-180°	11975.0	100.0

**Coefficient of Utilization**



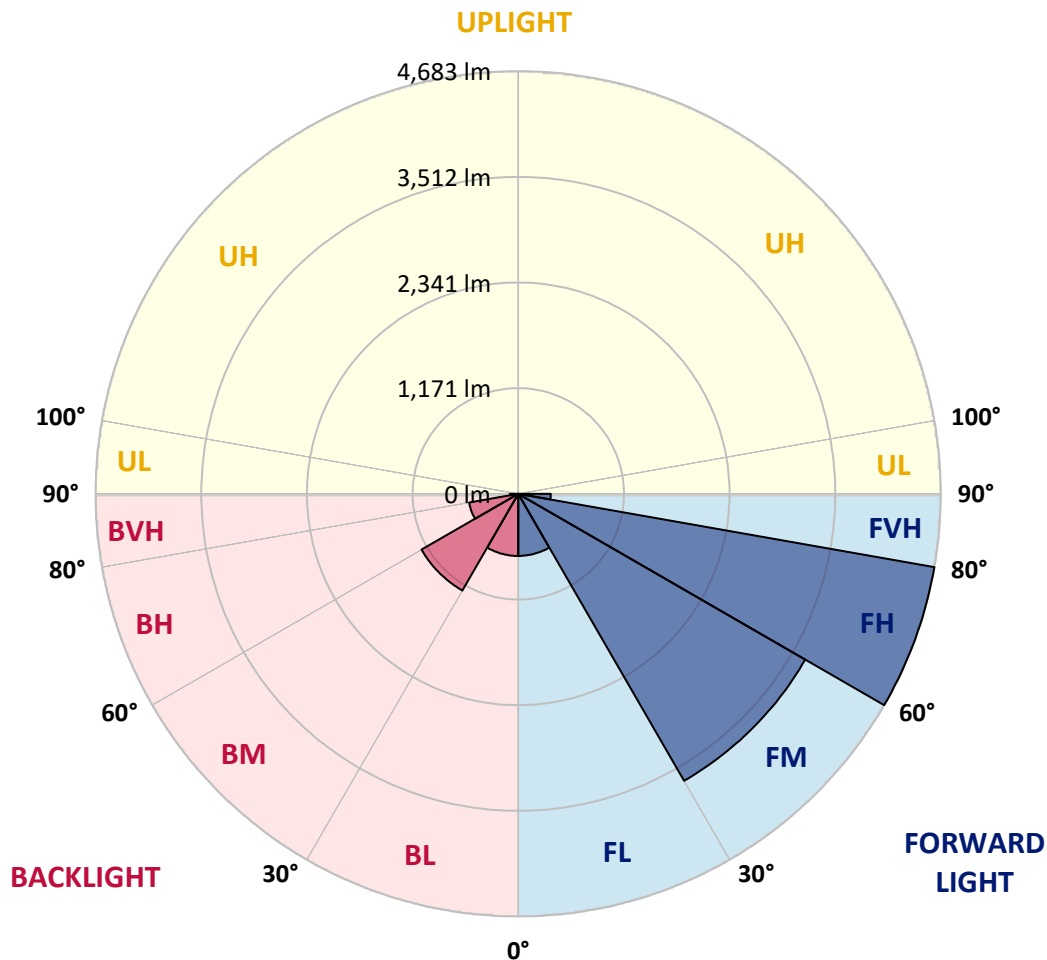
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	687.8	5.7			
FM (30°-60°)	3672.5	30.7			
FH (60°-80°)	4682.6	39.1			G2/5000
FVH (80°-90°)	360.8	3.0			G3/500
BL (0°-30°)	688.7	5.8	B2/1000		
BM (30°-60°)	1237.5	10.3	B2/2500		
BH (60°-80°)	552.9	4.6	B2/1000		G2/1000
BVH (80°-90°)	92.2	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°	1871.8	1871.8	1871.8	1871.8	1871.8	1871.8	1871.8	1871.8	1871.8	1871.8	1871.8
2.5°	1738.2	1731.5	1743.9	1745.6	1756.4	1760.5	1775.4	1798.5	1817.6	1839.5	1859.4
5°	1580.6	1576.0	1593.4	1605.8	1629.4	1639.3	1674.4	1723.7	1767.5	1817.2	1862.2
7.5°	1430.8	1428.3	1447.8	1475.9	1503.2	1516.8	1577.7	1649.2	1722.4	1802.7	1871.8
10°	1304.6	1303.8	1322.4	1350.1	1390.3	1405.6	1484.2	1578.5	1681.1	1791.5	1887.9
12.5°	1233.9	1236.8	1245.5	1268.7	1305.9	1321.2	1408.5	1519.3	1646.3	1787.8	1911.5
15°	1251.3	1255.8	1240.9	1240.1	1266.6	1278.6	1360.5	1477.1	1621.5	1794.0	1945.8
17.5°	1325.3	1326.2	1286.9	1262.0	1278.2	1284.4	1345.6	1453.1	1607.0	1808.1	1988.8
20°	1429.6	1427.5	1358.0	1316.6	1325.3	1327.0	1366.7	1453.6	1605.8	1832.5	2044.7
22.5°	1567.7	1552.4	1458.9	1402.7	1400.6	1398.1	1420.9	1484.2	1624.0	1872.2	2111.3
25°	1748.1	1733.6	1605.0	1528.0	1511.5	1505.3	1508.6	1549.5	1660.0	1914.8	2185.7
27.5°	1948.7	1923.5	1799.4	1690.6	1656.2	1647.6	1627.7	1641.8	1699.3	1955.7	2274.2
30°	2116.6	2103.0	1994.6	1865.6	1825.0	1812.6	1760.5	1745.2	1755.9	2011.6	2385.9
32.5°	2210.5	2201.4	2135.7	2031.4	1993.8	1976.4	1902.8	1872.2	1846.9	2099.7	2537.3
35°	2324.3	2318.5	2278.8	2203.1	2147.2	2129.0	2072.0	2040.1	1975.2	2220.9	2733.0
37.5°	2469.1	2462.9	2463.7	2402.5	2335.9	2318.9	2281.3	2247.8	2141.5	2380.1	2945.6
40°	2632.9	2620.9	2616.3	2613.4	2571.2	2561.7	2541.9	2496.4	2349.9	2570.4	3155.3
42.5°	2879.4	2836.8	2745.8	2780.1	2821.9	2816.9	2833.1	2767.7	2581.6	2795.4	3360.1
45°	3117.3	3047.3	2890.2	2897.6	2989.0	3016.7	3137.5	3091.2	2832.7	3042.0	3571.9
47.5°	3225.6	3172.7	3039.1	3039.5	3130.1	3187.6	3452.3	3419.2	3096.6	3322.0	3830.4
50°	3346.8	3293.9	3173.9	3219.0	3298.0	3359.2	3756.3	3739.4	3347.7	3628.5	4140.2
52.5°	3479.2	3389.4	3313.3	3394.0	3504.8	3576.0	4060.8	4014.5	3578.1	3937.1	4496.4
55°	3480.9	3456.4	3514.4	3573.5	3739.4	3826.7	4379.7	4257.3	3765.9	4240.3	4786.3
57.5°	3679.0	3639.3	3762.1	3789.4	4006.2	4104.6	4697.0	4468.6	3957.0	4472.8	4942.7
60°	3941.2	3907.3	4007.8	4079.8	4336.3	4467.8	5035.8	4685.8	4107.1	4648.2	4935.2
62.5°	4394.2	4355.7	4354.5	4455.4	4800.8	4953.9	5415.9	4898.8	4166.7	4682.9	4724.7
65°	5057.3	4996.0	4880.6	4928.6	5442.4	5595.0	5840.7	5053.1	4088.1	4496.8	4182.4
67.5°	5702.6	5700.5	5558.6	5657.1	6289.5	6412.0	6324.7	5068.4	3842.8	3848.6	3220.3
70°	6345.8	6354.1	6330.1	6672.6	7434.1	7561.5	6840.1	4862.9	3291.4	2779.3	1929.3
72.5°	6855.4	6853.3	6974.1	7857.3	8919.5	8891.0	7274.4	4239.9	2363.2	1500.3	922.0
75°	6525.3	6453.3	6813.2	8443.8	9785.3	9645.9	6905.0	2957.6	1226.5	682.9	496.4
77.5°	4256.0	4324.3	4852.5	6975.4	8559.2	8389.6	5066.0	1379.9	577.9	448.0	359.9
80°	1541.3	1613.2	2272.2	3951.2	5897.0	5869.3	2494.7	567.1	390.9	338.4	262.3
82.5°	530.3	556.8	896.4	1754.7	3329.5	3453.6	938.6	322.2	284.2	239.9	179.5
85°	208.1	238.3	409.9	844.3	1679.4	1691.8	380.1	192.8	197.7	157.2	98.4
87.5°	79.0	96.0	196.1	392.1	766.9	704.4	136.1	91.8	112.5	93.5	46.7
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°	1871.8	1871.8	1871.8	1871.8	1871.8	1871.8	1871.8	1871.8	1871.8	1871.8	1871.8
2.5°	1874.7	1883.3	1901.5	1914.0	1927.2	1930.9	1932.6	1935.9	1939.2	1937.9	1938.4
5°	1886.2	1903.2	1932.6	1945.0	1950.8	1944.1	1931.3	1921.0	1913.5	1909.4	1908.2
7.5°	1905.3	1929.3	1960.7	1958.6	1945.4	1916.0	1882.9	1858.1	1837.4	1830.0	1825.8
10°	1930.5	1958.6	1980.5	1957.0	1918.5	1867.6	1818.0	1779.5	1748.5	1736.5	1734.4
12.5°	1962.8	1991.3	1995.4	1945.4	1881.7	1812.2	1744.8	1693.9	1647.6	1632.7	1629.4
15°	2004.5	2031.4	2005.8	1925.1	1836.2	1742.7	1655.4	1586.3	1537.5	1519.3	1512.7
17.5°	2048.4	2074.0	2007.9	1891.6	1776.6	1660.4	1550.8	1480.0	1424.2	1403.1	1400.6
20°	2100.9	2112.5	1999.2	1843.6	1694.7	1553.7	1438.3	1371.7	1341.9	1327.0	1325.3
22.5°	2165.9	2153.5	1979.3	1778.7	1590.9	1430.4	1336.5	1305.5	1298.0	1294.7	1296.0
25°	2234.5	2196.5	1949.9	1693.9	1459.8	1307.1	1262.0	1270.7	1280.7	1279.4	1279.4
27.5°	2310.2	2240.3	1904.9	1581.4	1314.6	1206.2	1211.6	1243.4	1258.3	1257.9	1257.5
30°	2407.4	2290.0	1847.4	1446.1	1178.9	1135.1	1167.7	1206.6	1226.9	1226.1	1226.5
32.5°	2527.0	2344.6	1769.2	1295.1	1080.9	1082.5	1120.2	1158.6	1182.2	1180.1	1180.6
35°	2666.8	2405.8	1663.3	1146.2	1015.9	1040.7	1070.5	1097.4	1119.7	1116.9	1114.0
37.5°	2819.0	2465.8	1522.6	1013.0	963.0	1001.9	1026.7	1031.2	1041.6	1034.1	1028.7
40°	2963.8	2511.7	1341.5	903.8	909.6	968.8	984.9	966.7	948.1	945.6	938.2
42.5°	3090.0	2527.0	1158.2	816.5	853.4	934.0	943.9	905.9	872.4	856.7	850.0
45°	3223.1	2532.4	987.4	743.3	799.2	903.0	913.7	862.9	815.7	781.8	770.6
47.5°	3397.3	2571.2	854.6	689.1	757.8	882.3	897.6	828.5	767.3	718.9	708.6
50°	3625.2	2648.2	746.6	647.8	730.9	868.7	886.0	795.0	727.6	669.3	658.9
52.5°	3878.4	2718.9	659.4	614.3	704.9	844.7	871.1	771.0	690.4	623.4	612.2
55°	4055.4	2664.7	589.0	579.5	670.9	810.3	850.5	750.8	637.0	578.7	568.8
57.5°	4089.3	2479.4	535.7	543.5	630.0	767.3	818.6	705.7	608.1	559.3	548.9
60°	3996.7	2221.3	496.0	510.4	586.1	713.1	759.0	673.8	580.3	538.6	529.9
62.5°	3763.8	1957.0	466.6	480.7	545.2	658.1	721.8	640.3	552.2	515.0	506.3
65°	3293.5	1643.0	438.5	454.2	507.1	610.5	688.3	609.3	524.5	496.0	487.7
67.5°	2486.0	1230.6	412.0	426.1	473.2	569.2	651.9	578.7	497.6	479.4	469.5
70°	1463.9	770.6	381.8	396.7	437.6	526.2	613.0	545.2	464.1	455.8	443.0
72.5°	681.3	463.7	347.5	361.9	393.0	468.7	563.0	501.3	424.4	406.2	388.8
75°	406.6	339.2	306.9	319.8	341.7	407.4	500.1	456.7	386.8	362.8	344.6
77.5°	304.0	259.4	262.3	275.9	293.7	356.6	443.0	421.5	357.8	339.2	326.8
80°	218.8	196.9	213.9	228.7	247.4	324.3	424.4	389.7	323.5	298.7	287.1
82.5°	146.0	141.5	160.9	176.2	194.4	283.8	398.8	341.3	276.3	244.9	219.2
85°	80.7	85.2	108.4	115.0	130.7	199.8	326.8	274.2	208.1	167.5	160.1
87.5°	33.5	39.3	58.3	56.3	69.5	119.1	215.1	165.5	132.4	98.9	76.9
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)