

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: P386795

Luminaire Tested: GAW-SA2C-727-U-T4FT

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386795  
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-SA2C-727-U-T4FT  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2700K, 1050mA 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: 12418 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

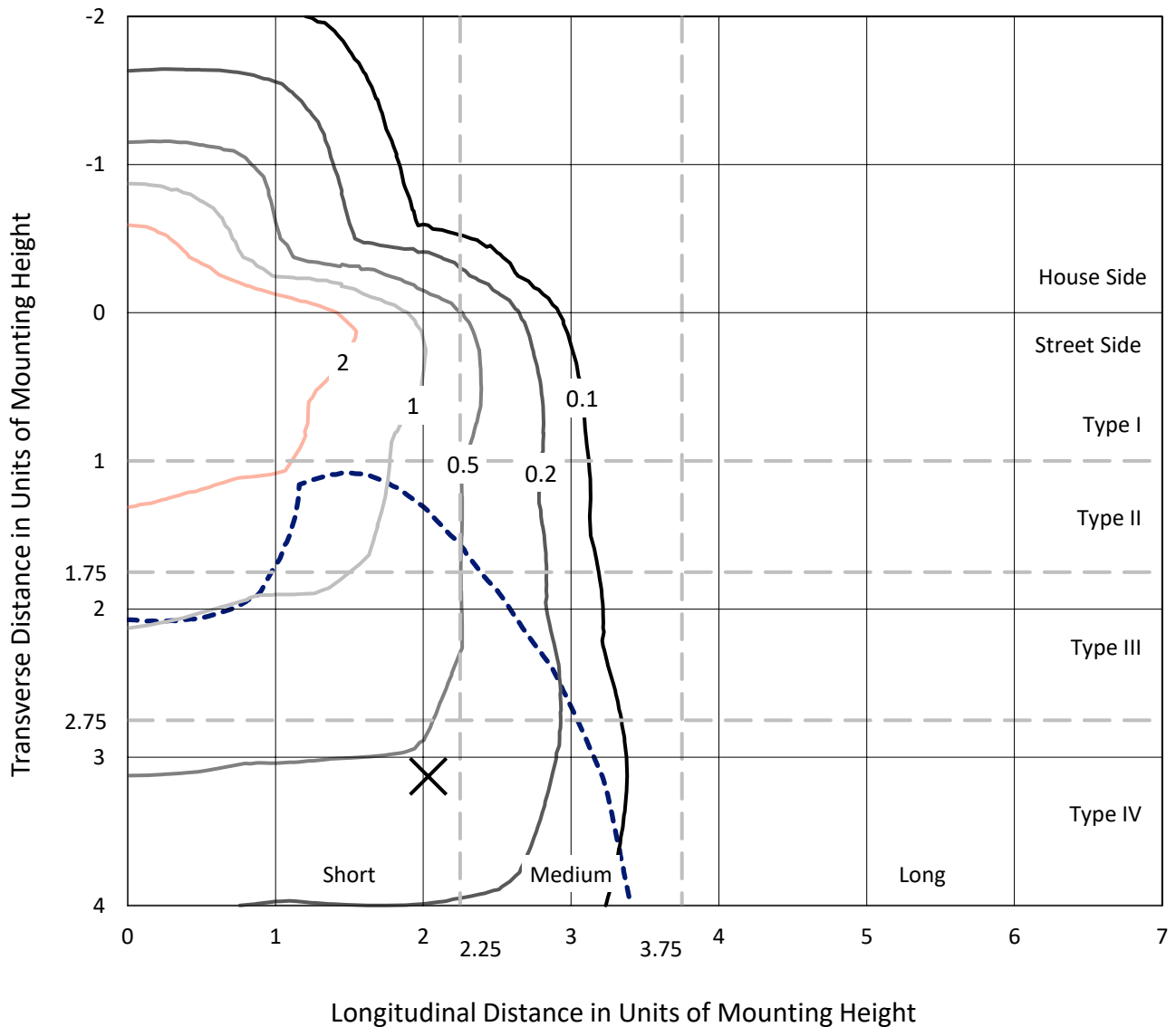
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

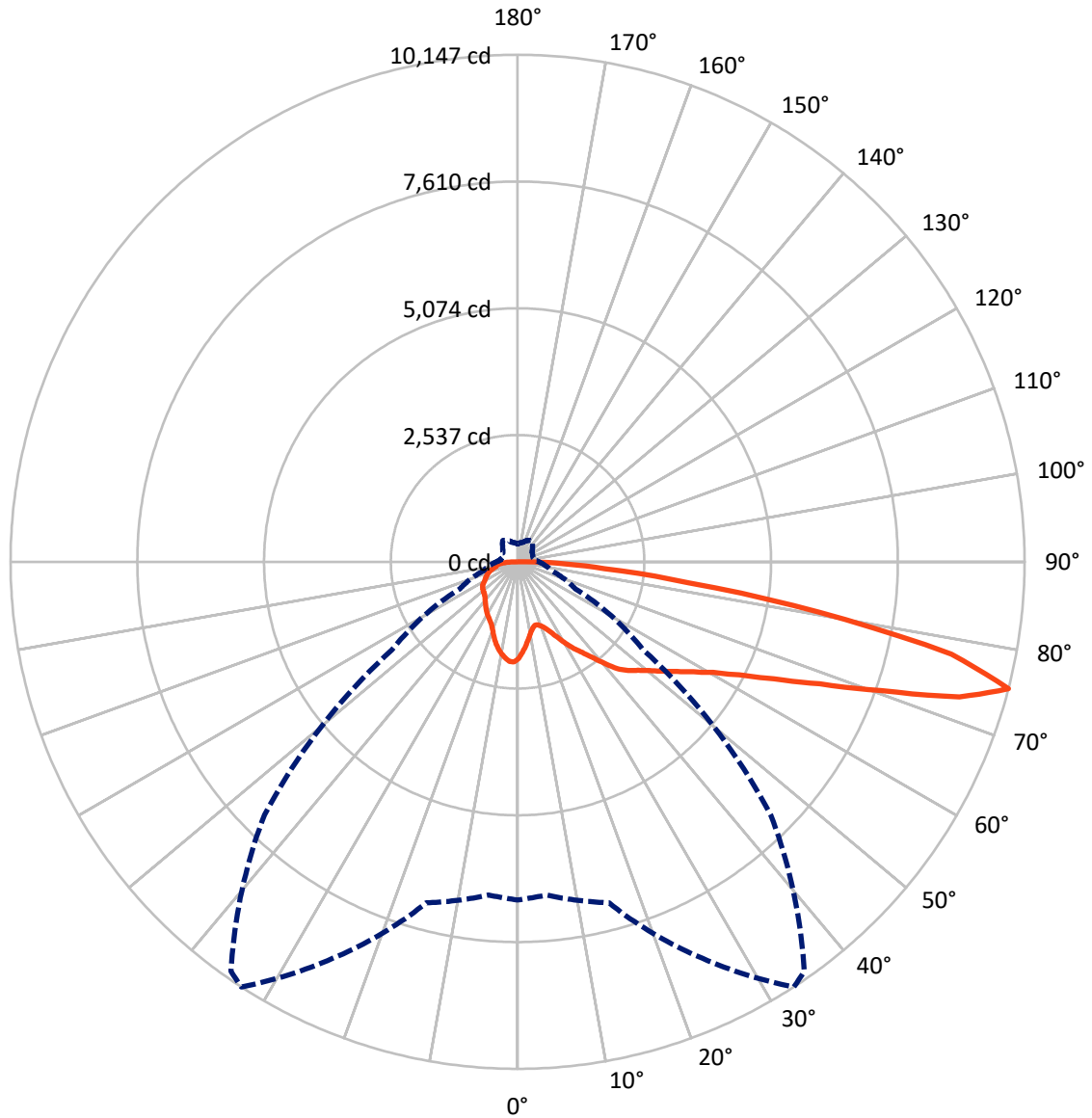
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 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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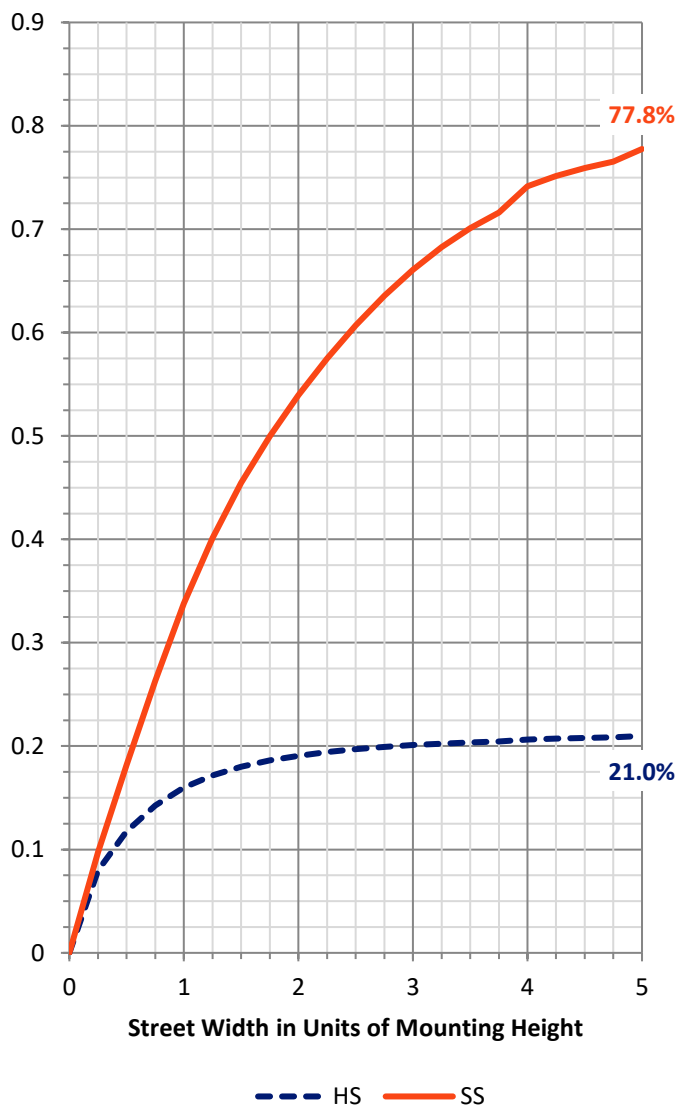
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2666.5	0.0	2666.5
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	9751.5	0.0	9751.5
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	12418.0	0.0	12418.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.5	1.4
10°-20°	475.4	3.8
20°-30°	776.5	6.3
30°-40°	1156.3	9.3
40°-50°	1658.5	13.4
50°-60°	2276.8	18.3
60°-70°	2850.5	23.0
70°-80°	2578.7	20.8
80°-90°	469.7	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°	12418.0	100.0
0°-180°	12418.0	100.0

**Coefficient of Utilization**



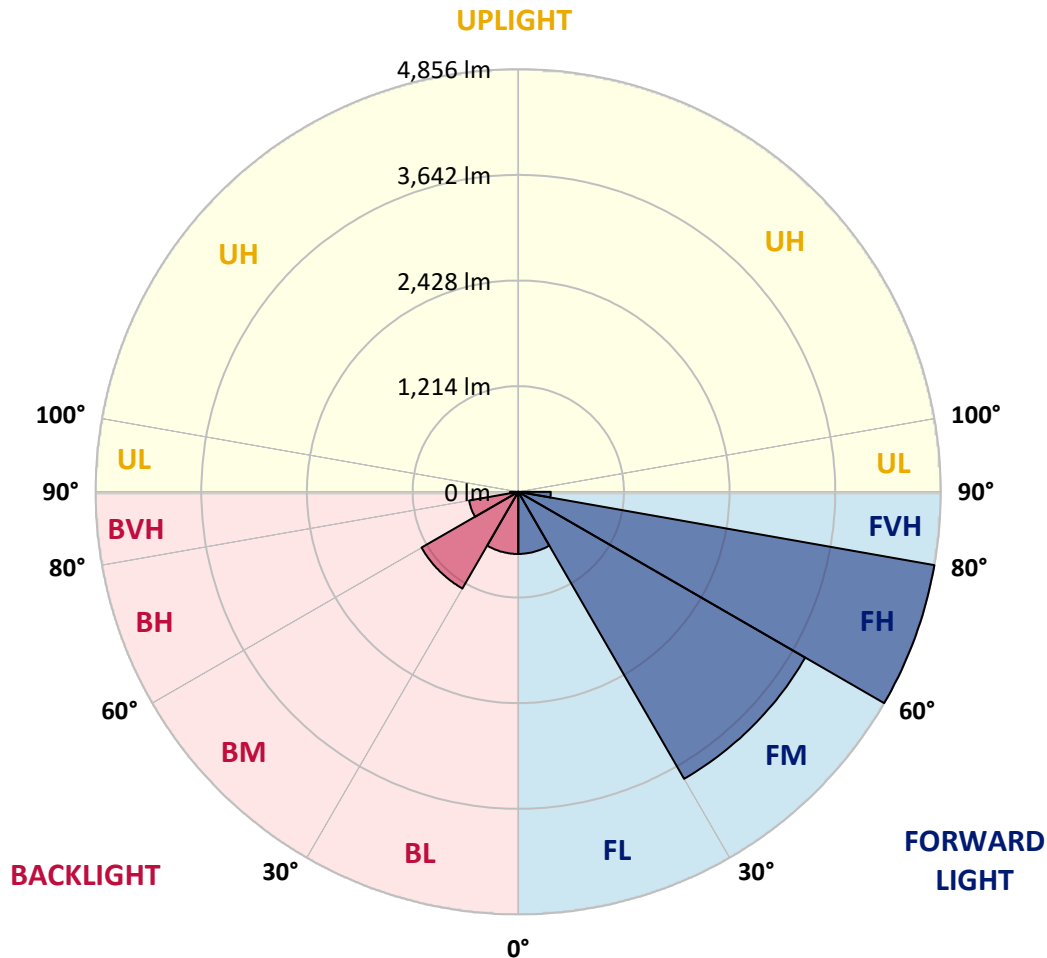
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	713.2	5.7			
FM (30°-60°)	3808.3	30.7			
FH (60°-80°)	4855.9	39.1			G2/5000
FVH (80°-90°)	374.1	3.0			G3/500
BL (0°-30°)	714.2	5.8	B2/1000		
BM (30°-60°)	1283.3	10.3	B2/2500		
BH (60°-80°)	573.3	4.6	B2/1000		G2/1000
BVH (80°-90°)	95.6	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°	1941.0	1941.0	1941.0	1941.0	1941.0	1941.0	1941.0	1941.0	1941.0	1941.0	1941.0
2.5°	1802.5	1795.6	1808.5	1810.2	1821.3	1825.6	1841.1	1865.1	1884.8	1907.5	1928.1
5°	1639.0	1634.3	1652.3	1665.2	1689.6	1699.9	1736.4	1787.4	1832.9	1884.4	1931.1
7.5°	1483.7	1481.2	1501.3	1530.5	1558.8	1573.0	1636.0	1710.2	1786.2	1869.4	1941.0
10°	1352.9	1352.1	1371.4	1400.1	1441.7	1457.6	1539.1	1636.9	1743.3	1857.8	1957.7
12.5°	1279.6	1282.6	1291.6	1315.6	1354.2	1370.1	1460.6	1575.5	1707.2	1853.9	1982.2
15°	1297.6	1302.3	1286.9	1286.0	1313.4	1325.9	1410.8	1531.8	1681.5	1860.4	2017.8
17.5°	1374.4	1375.2	1334.5	1308.7	1325.5	1331.9	1395.4	1506.9	1666.5	1874.9	2062.4
20°	1482.5	1480.3	1408.2	1365.4	1374.4	1376.1	1417.3	1507.3	1665.2	1900.3	2120.3
22.5°	1625.7	1609.9	1512.9	1454.6	1452.4	1449.9	1473.4	1539.1	1684.1	1941.4	2189.4
25°	1812.7	1797.7	1664.3	1584.5	1567.4	1561.0	1564.4	1606.9	1721.4	1985.6	2266.6
27.5°	2020.8	1994.6	1865.9	1753.1	1717.5	1708.5	1687.9	1702.5	1762.1	2028.1	2358.4
30°	2194.9	2180.8	2068.4	1934.6	1892.5	1879.7	1825.6	1809.7	1820.9	2086.0	2474.2
32.5°	2292.3	2282.9	2214.7	2106.6	2067.5	2049.5	1973.2	1941.4	1915.3	2177.4	2631.2
35°	2410.3	2404.3	2363.1	2284.6	2226.7	2207.8	2148.6	2115.6	2048.2	2303.0	2834.1
37.5°	2560.4	2554.0	2554.8	2491.3	2422.3	2404.7	2365.7	2330.9	2220.7	2468.2	3054.6
40°	2730.3	2717.8	2713.1	2710.1	2666.4	2656.5	2635.9	2588.7	2436.9	2665.5	3272.0
42.5°	2985.9	2941.7	2847.4	2883.0	2926.3	2921.2	2937.9	2870.1	2677.1	2898.9	3484.4
45°	3232.6	3160.1	2997.1	3004.8	3099.6	3128.3	3253.6	3205.6	2937.5	3154.5	3704.0
47.5°	3345.0	3290.1	3151.5	3151.9	3245.9	3305.5	3580.0	3545.7	3211.1	3444.9	3972.1
50°	3470.6	3415.7	3291.3	3338.1	3420.0	3483.5	3895.3	3877.7	3471.5	3762.8	4293.4
52.5°	3607.9	3514.8	3435.9	3519.5	3634.5	3708.3	4211.0	4163.0	3710.4	4082.8	4662.7
55°	3609.6	3584.3	3644.4	3705.7	3877.7	3968.2	4541.7	4414.8	3905.2	4397.2	4963.4
57.5°	3815.1	3773.9	3901.3	3929.6	4154.4	4256.5	4870.7	4634.0	4103.3	4638.2	5125.5
60°	4087.0	4051.9	4156.1	4230.7	4496.7	4633.1	5222.0	4859.2	4259.1	4820.1	5117.8
62.5°	4556.7	4516.9	4515.6	4620.2	4978.4	5137.1	5616.3	5080.1	4320.8	4856.2	4899.5
65°	5244.4	5180.9	5061.2	5111.0	5643.7	5802.0	6056.8	5240.1	4239.3	4663.1	4337.1
67.5°	5913.5	5911.4	5764.2	5866.3	6522.2	6649.2	6558.7	5255.9	3985.0	3991.0	3339.4
70°	6580.5	6589.1	6564.2	6919.4	7709.1	7841.2	7093.1	5042.7	3413.2	2882.1	2000.6
72.5°	7109.0	7106.9	7232.1	8147.9	9249.5	9219.9	7543.5	4396.7	2450.6	1555.8	956.1
75°	6766.7	6692.1	7065.3	8756.2	10147.3	10002.7	7160.5	3067.0	1271.8	708.2	514.7
77.5°	4413.5	4484.3	5032.0	7233.4	8875.9	8700.0	5253.4	1431.0	599.2	464.6	373.2
80°	1598.3	1672.9	2356.2	4097.3	6115.1	6086.4	2587.0	588.1	405.4	350.9	272.0
82.5°	549.9	577.4	929.5	1819.6	3452.6	3581.3	973.3	334.2	294.7	248.8	186.2
85°	215.8	247.1	425.1	875.5	1741.5	1754.4	394.2	199.9	205.0	163.0	102.1
87.5°	81.9	99.5	203.3	406.6	795.3	730.5	141.1	95.2	116.7	96.9	48.5
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°	1941.0	1941.0	1941.0	1941.0	1941.0	1941.0	1941.0	1941.0	1941.0	1941.0	1941.0
2.5°	1944.0	1953.0	1971.9	1984.8	1998.5	2002.3	2004.1	2007.5	2010.9	2009.6	2010.1
5°	1956.0	1973.6	2004.1	2016.9	2022.9	2016.1	2002.8	1992.0	1984.3	1980.0	1978.8
7.5°	1975.7	2000.6	2033.2	2031.1	2017.4	1986.9	1952.6	1926.8	1905.4	1897.7	1893.4
10°	2001.9	2031.1	2053.8	2029.4	1989.5	1936.7	1885.2	1845.3	1813.2	1800.7	1798.6
12.5°	2035.4	2065.0	2069.3	2017.4	1951.3	1879.2	1809.3	1756.6	1708.5	1693.1	1689.6
15°	2078.7	2106.6	2080.0	1996.3	1904.1	1807.2	1716.7	1645.0	1594.4	1575.5	1568.7
17.5°	2124.2	2150.8	2082.1	1961.6	1842.3	1721.8	1608.1	1534.8	1476.9	1455.0	1452.4
20°	2178.6	2190.7	2073.1	1911.8	1757.4	1611.1	1491.5	1422.4	1391.5	1376.1	1374.4
22.5°	2246.0	2233.1	2052.5	1844.5	1649.7	1483.3	1385.9	1353.8	1346.0	1342.6	1343.9
25°	2317.2	2277.7	2022.1	1756.6	1513.8	1355.5	1308.7	1317.7	1328.0	1326.7	1326.7
27.5°	2395.7	2323.2	1975.3	1639.9	1363.2	1250.8	1256.4	1289.4	1304.9	1304.4	1304.0
30°	2496.5	2374.7	1915.7	1499.6	1222.5	1177.0	1210.9	1251.2	1272.3	1271.4	1271.8
32.5°	2620.5	2431.3	1834.6	1343.0	1120.8	1122.6	1161.6	1201.5	1225.9	1223.8	1224.2
35°	2765.4	2494.8	1724.8	1188.6	1053.5	1079.2	1110.1	1138.0	1161.2	1158.2	1155.2
37.5°	2923.3	2557.0	1579.0	1050.5	998.6	1038.9	1064.7	1069.4	1080.1	1072.4	1066.8
40°	3073.4	2604.6	1391.1	937.3	943.3	1004.6	1021.3	1002.5	983.2	980.6	972.9
42.5°	3204.3	2620.5	1201.1	846.7	884.9	968.6	978.9	939.4	904.7	888.4	881.5
45°	3342.4	2626.0	1023.9	770.8	828.7	936.4	947.6	894.8	845.9	810.7	799.1
47.5°	3523.0	2666.4	886.2	714.6	785.8	915.0	930.8	859.2	795.7	745.5	734.8
50°	3759.3	2746.1	774.3	671.7	758.0	900.8	918.8	824.4	754.5	694.0	683.3
52.5°	4021.8	2819.5	683.7	637.0	730.9	875.9	903.4	799.6	715.9	646.4	634.8
55°	4205.4	2763.3	610.8	601.0	695.8	840.3	881.9	778.5	660.6	600.1	589.8
57.5°	4240.6	2571.1	555.5	563.6	653.3	795.7	848.9	731.8	630.6	579.9	569.2
60°	4144.5	2303.5	514.3	529.3	607.8	739.5	787.1	698.8	601.8	558.5	549.5
62.5°	3903.0	2029.4	483.9	498.4	565.4	682.5	748.5	664.0	572.6	534.0	525.0
65°	3415.3	1703.8	454.7	471.0	525.9	633.1	713.8	631.8	543.9	514.3	505.7
67.5°	2578.0	1276.1	427.2	441.8	490.7	590.2	676.0	600.1	516.0	497.2	486.9
70°	1518.1	799.1	395.9	411.4	453.8	545.6	635.7	565.4	481.3	472.7	459.4
72.5°	706.5	480.9	360.3	375.3	407.5	486.0	583.8	519.9	440.1	421.2	403.2
75°	421.7	351.7	318.3	331.6	354.3	422.5	518.6	473.6	401.1	376.2	357.3
77.5°	315.3	269.0	272.0	286.1	304.6	369.8	459.4	437.1	371.0	351.7	338.9
80°	226.9	204.2	221.8	237.2	256.5	336.3	440.1	404.1	335.4	309.7	297.7
82.5°	151.4	146.7	166.9	182.7	201.6	294.3	413.5	353.9	286.5	253.9	227.3
85°	83.6	88.4	112.4	119.2	135.5	207.2	338.9	284.4	215.8	173.7	166.0
87.5°	34.7	40.8	60.5	58.3	72.1	123.5	223.1	171.6	137.3	102.5	79.8
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)