

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: P636911

Luminaire Tested: **IFLD-S-SA2A-935-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636911  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-935-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (32) 3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4518.2 lumens  
Efficiency: N/A  
Efficacy: 70.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

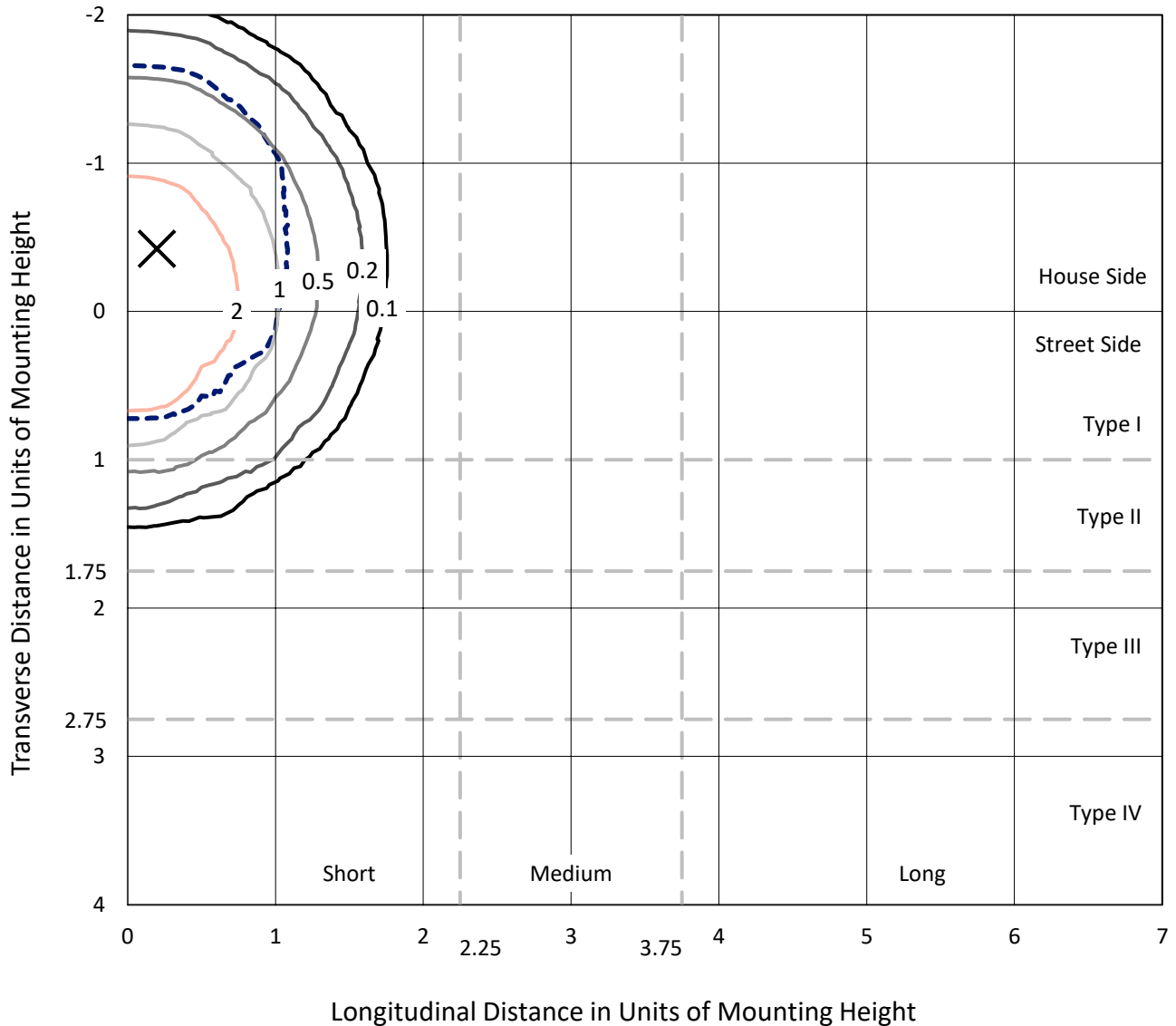
Input Watts (W): 63.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

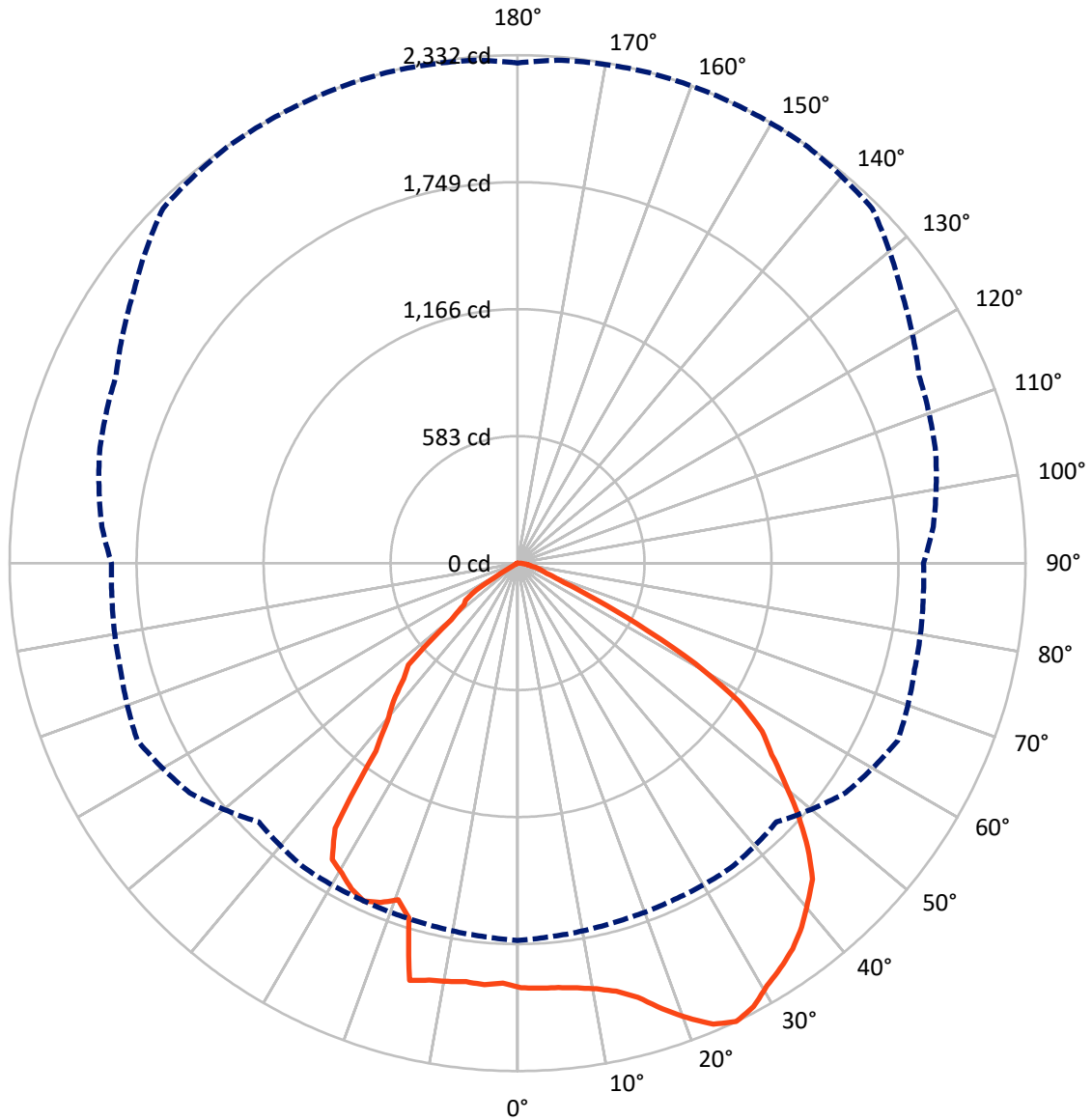
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral      - - - Horizontal Cone Through 25-Deg Vertical

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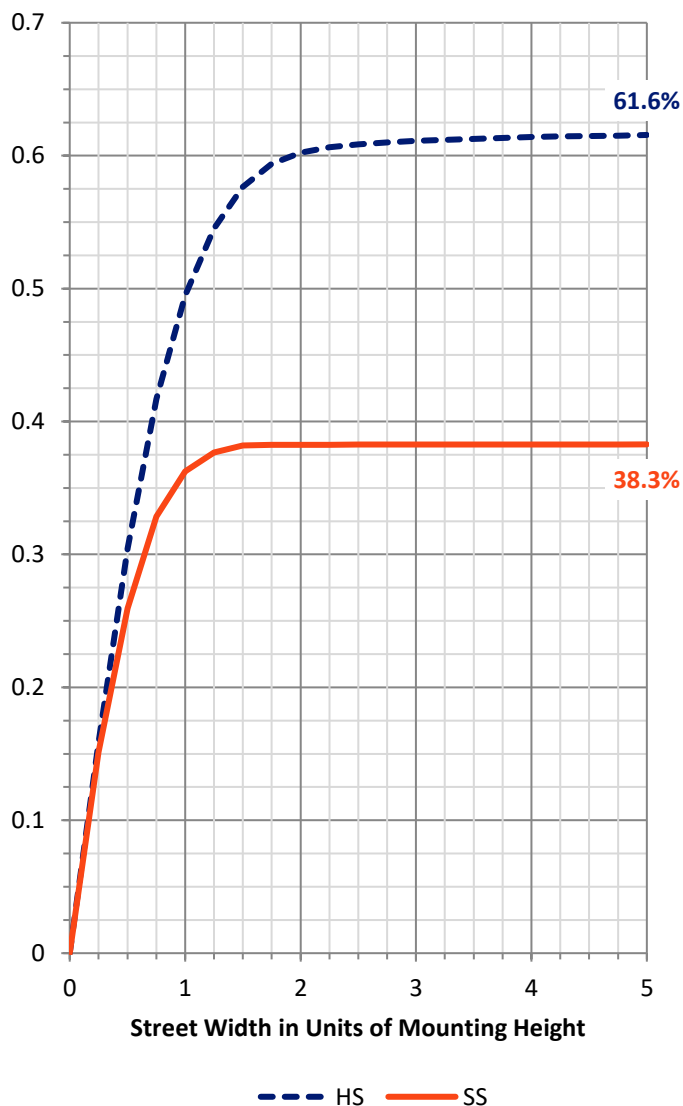
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2797.2	0.0	2797.2
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	1721.0	0.0	1721.0
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	4518.2	0.0	4518.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.0	4.1
10°-20°	571.1	12.6
20°-30°	902.9	20.0
30°-40°	1019.9	22.6
40°-50°	955.1	21.1
50°-60°	658.5	14.6
60°-70°	176.9	3.9
70°-80°	36.9	0.8
80°-90°	10.0	0.2
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°	4518.2	100.0
0°-180°	4518.2	100.0



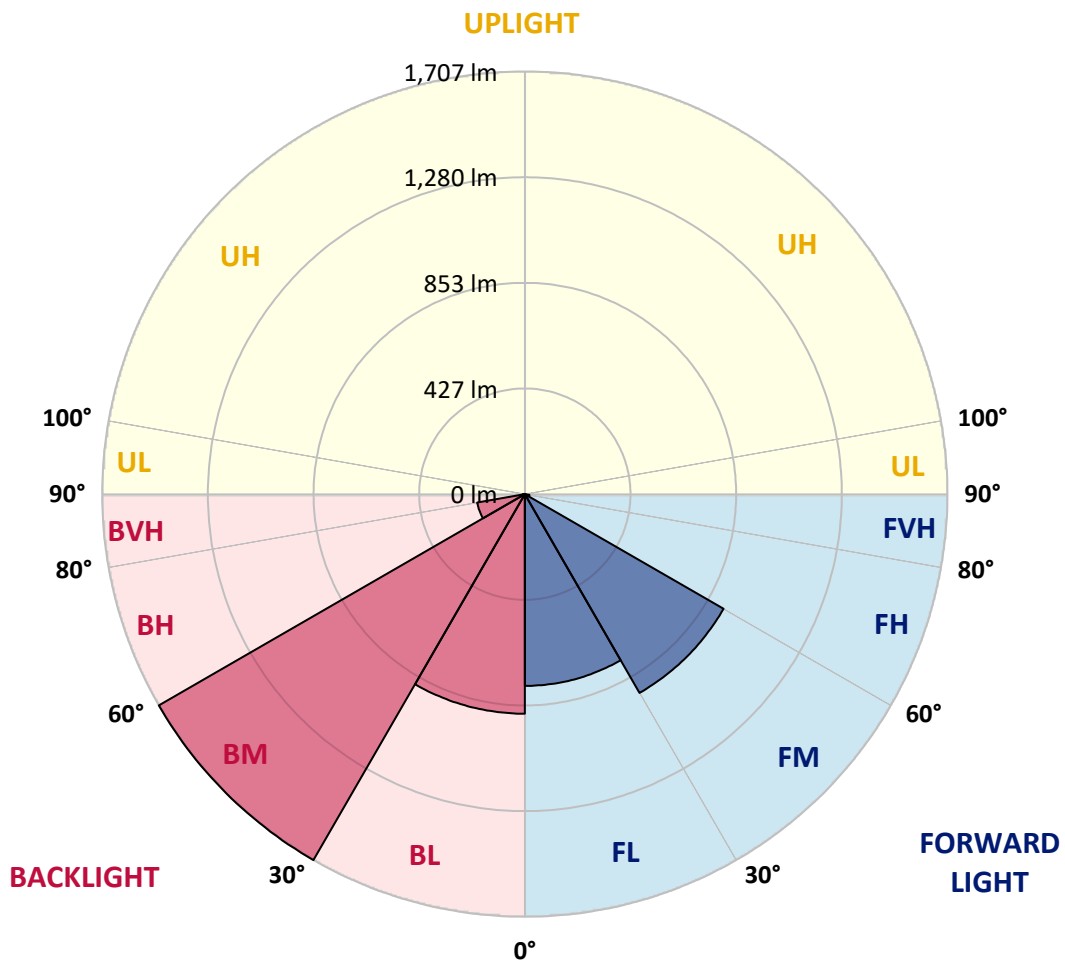
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	774.3	17.1			
FM (30°-60°)	926.8	20.5			
FH (60°-80°)	18.6	0.4			G0/660
FVH (80°-90°)	1.3	0.0			G0/10
BL (0°-30°)	886.7	19.6	B2/1000		
BM (30°-60°)	1706.7	37.8	B2/2500		
BH (60°-80°)	195.2	4.3	B1/500		G1/500
BVH (80°-90°)	8.6	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1949.5	1949.5	1949.5	1949.5	1949.5	1949.5	1949.5	1949.5	1949.5	1949.5
2.5°	1958.1	1945.5	1933.6	1929.6	1946.2	1964.1	1952.8	1953.5	1949.5	1956.8
5°	1972.8	1955.5	1947.5	1941.5	1944.2	1962.8	1946.9	1952.8	1946.2	1954.8
7.5°	1967.4	1955.5	1947.5	1936.2	1944.9	1966.8	1951.5	1952.2	1948.8	1956.8
10°	1964.1	1955.5	1945.5	1946.9	1956.8	1975.4	1963.5	1970.1	1965.4	1970.1
12.5°	1972.1	1962.8	1957.5	1957.5	1966.1	1987.4	1981.4	1987.4	1985.4	1989.4
15°	1897.1	1905.7	1956.2	1978.7	1996.0	2017.2	2014.6	2020.6	2021.9	2027.9
17.5°	1600.2	1591.6	1587.6	1703.8	2012.6	2078.3	2076.3	2075.7	2069.0	2064.4
20°	1639.4	1636.1	1631.5	1640.1	1674.6	2110.2	2123.5	2041.8	2017.9	2015.9
22.5°	1701.8	1696.5	1679.3	1679.9	1690.6	1834.6	2057.7	1983.4	1975.4	1970.8
25°	1732.4	1721.8	1707.8	1703.8	1707.2	1680.6	1838.0	1926.3	1887.1	1869.2
27.5°	1678.6	1679.3	1668.0	1678.6	1666.0	1546.5	1479.4	1814.7	1813.4	1805.4
30°	1638.1	1636.1	1622.8	1636.1	1549.1	1415.7	1387.1	1692.5	1678.6	1668.0
32.5°	1513.9	1515.3	1553.8	1605.6	1462.8	1357.2	1270.9	1511.9	1644.1	1638.1
35°	1083.0	1085.6	1222.4	1478.1	1332.0	1241.0	1234.4	1306.8	1589.6	1592.3
37.5°	1042.5	1042.5	1039.2	1081.0	1229.1	1193.9	1207.2	1199.9	1456.2	1462.8
40°	1013.3	1007.3	1002.6	936.9	854.6	1160.7	1170.0	1136.8	1376.5	1377.8
42.5°	978.1	971.4	972.8	851.3	764.9	1078.3	1052.4	1008.0	1243.7	1245.0
45°	913.7	925.0	932.9	745.0	738.4	770.2	970.8	942.9	1154.0	1178.6
47.5°	464.8	474.8	728.4	685.3	700.5	684.6	820.0	820.7	960.1	1041.8
50°	421.6	419.0	419.6	399.7	646.7	553.8	593.0	752.3	768.9	885.8
52.5°	393.1	392.4	351.9	312.7	406.4	487.4	430.3	544.5	571.7	750.3
55°	290.8	312.1	277.6	294.2	254.3	390.4	388.4	491.4	500.7	601.6
57.5°	2.7	3.3	8.0	223.8	176.0	195.2	268.3	335.3	351.9	468.8
60°	0.7	1.3	3.3	6.6	114.2	120.2	179.3	193.9	218.5	279.5
62.5°	0.0	0.0	1.3	3.3	6.0	49.1	57.1	62.4	96.3	142.8
65°	0.0	0.0	0.7	2.0	3.3	8.0	13.9	29.2	41.8	51.8
67.5°	0.0	0.0	0.7	1.3	2.7	4.0	8.0	11.3	17.9	30.5
70°	0.0	0.0	0.7	1.3	2.0	3.3	5.3	8.0	10.6	15.3
72.5°	0.0	0.0	0.7	1.3	1.3	4.0	4.0	6.0	8.0	10.0
75°	0.0	0.0	0.7	0.7	1.3	2.7	4.0	4.6	5.3	8.0
77.5°	0.0	0.0	0.7	1.3	2.0	2.7	3.3	5.3	4.6	4.6
80°	0.0	0.0	0.7	2.0	2.0	3.3	4.0	5.3	3.3	3.3
82.5°	0.0	0.0	0.7	2.7	2.0	6.6	6.6	7.3	2.7	2.7
85°	0.0	0.0	2.0	1.3	4.0	6.6	6.0	4.0	3.3	2.0
87.5°	0.0	0.0	0.7	0.7	1.3	2.0	4.6	4.0	1.3	1.3
90°	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°
1949.5	0°	1949.5	1949.5	1949.5	1949.5	1949.5	1949.5	1949.5	1949.5	1949.5
1937.6	2.5°	1964.1	1955.5	1973.4	1971.4	1962.8	1958.8	1954.2	1950.2	1921.0
1938.9	5°	1964.8	1951.5	1973.4	1969.4	1968.1	1961.5	1957.5	1963.5	1936.9
1944.2	7.5°	1964.8	1951.5	1975.4	1976.7	1974.7	1969.4	1968.8	1972.8	1950.8
1953.5	10°	1978.1	1972.8	1992.7	1994.7	1992.0	1990.7	1987.4	1984.7	1961.5
1985.4	12.5°	2006.0	1995.3	2017.9	2023.9	2021.9	2025.2	2017.2	2021.2	1997.3
2017.9	15°	2039.8	2040.5	2057.7	2071.0	2069.7	2080.3	2068.4	2079.0	2061.7
2055.1	17.5°	2091.6	2098.9	2123.5	2143.4	2150.7	2158.7	2150.7	2154.0	2129.5
2013.9	20°	2037.2	2064.4	2182.6	2219.1	2234.4	2241.7	2228.4	2232.4	2207.8
1963.5	22.5°	1988.0	2023.2	2128.1	2242.3	2289.5	2304.1	2299.4	2298.8	2289.5
1863.9	25°	1915.6	1986.7	2033.8	2154.7	2302.8	2329.3	2332.0	2331.3	2317.4
1802.8	27.5°	1826.7	1842.6	1964.8	2038.5	2209.8	2310.7	2306.7	2287.5	2268.9
1675.9	30°	1713.1	1785.5	1840.6	1958.1	2089.6	2253.6	2253.6	2239.0	2219.8
1630.8	32.5°	1655.4	1749.0	1800.1	1842.6	1954.8	2189.9	2216.4	2201.2	2185.9
1595.6	35°	1624.8	1638.8	1758.3	1796.8	1891.7	2067.0	2174.6	2159.3	2148.0
1502.0	37.5°	1557.8	1590.3	1646.1	1749.0	1778.2	1966.8	2118.8	2110.9	2097.6
1380.5	40°	1408.4	1495.3	1581.0	1678.6	1709.1	1838.0	2051.1	2054.4	2036.5
1251.0	42.5°	1320.0	1379.1	1513.3	1579.0	1661.3	1755.0	1985.4	1990.7	1978.1
1185.2	45°	1216.5	1282.2	1376.5	1496.0	1608.2	1640.8	1869.2	1924.9	1914.3
1054.4	47.5°	1121.5	1174.6	1290.2	1411.0	1535.2	1530.5	1735.7	1840.6	1826.0
954.2	50°	986.7	1079.7	1134.1	1245.0	1430.3	1442.9	1593.6	1741.7	1729.7
810.7	52.5°	832.0	948.9	1053.1	1154.7	1324.0	1353.9	1461.5	1640.8	1632.8
619.5	55°	727.1	812.1	929.6	1011.3	1195.2	1274.9	1362.5	1544.5	1540.5
509.3	57.5°	517.3	681.3	778.2	892.4	989.4	1133.5	1198.5	1348.6	1311.4
282.2	60°	350.6	427.6	545.8	668.7	733.7	877.8	938.2	1058.4	1048.5
168.7	62.5°	185.3	256.3	340.6	402.4	449.5	589.6	614.9	744.3	741.0
67.7	65°	81.7	108.2	184.6	216.5	264.9	330.0	351.9	398.4	387.1
33.2	67.5°	42.5	64.4	104.2	128.2	161.4	185.9	203.8	218.5	227.8
21.9	70°	25.9	47.1	64.4	89.0	110.9	130.8	144.8	164.7	176.6
11.3	72.5°	19.3	29.9	44.5	68.4	80.3	103.6	117.5	132.1	142.8
9.3	75°	10.6	19.9	35.9	53.8	64.4	84.3	96.9	106.9	110.2
5.3	77.5°	6.6	15.3	29.9	41.8	50.5	68.4	65.1	74.4	82.3
4.0	80°	4.6	11.3	23.2	34.5	35.2	43.8	51.8	59.8	65.1
2.7	82.5°	3.3	9.3	17.3	26.6	23.2	33.9	40.5	46.5	33.9
2.0	85°	2.7	6.6	8.6	15.9	13.3	23.9	20.6	19.9	13.3
1.3	87.5°	2.0	3.3	6.0	7.3	5.3	5.3	6.6	8.0	6.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
1949.5  
1901.0  
1914.3  
1925.6  
1942.2  
1976.1  
2033.2  
2108.2  
2190.5  
2259.6  
*2296.1*  
2254.3  
2212.5  
2173.3  
2132.1  
2084.3  
2032.5  
1976.7  
1915.6  
1836.6  
1731.7  
1638.1  
1545.1  
1307.4  
1049.1  
741.7  
382.5  
227.8  
177.3  
144.8  
108.2  
83.7  
65.7  
24.6  
13.3  
6.6  
0.0

(END OF REPORT)