

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: P636882

Luminaire Tested: **IFLD-S-SA2A-930-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636882  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-930-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (32) 3000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4354.8 lumens  
Efficiency: N/A  
Efficacy: 68.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

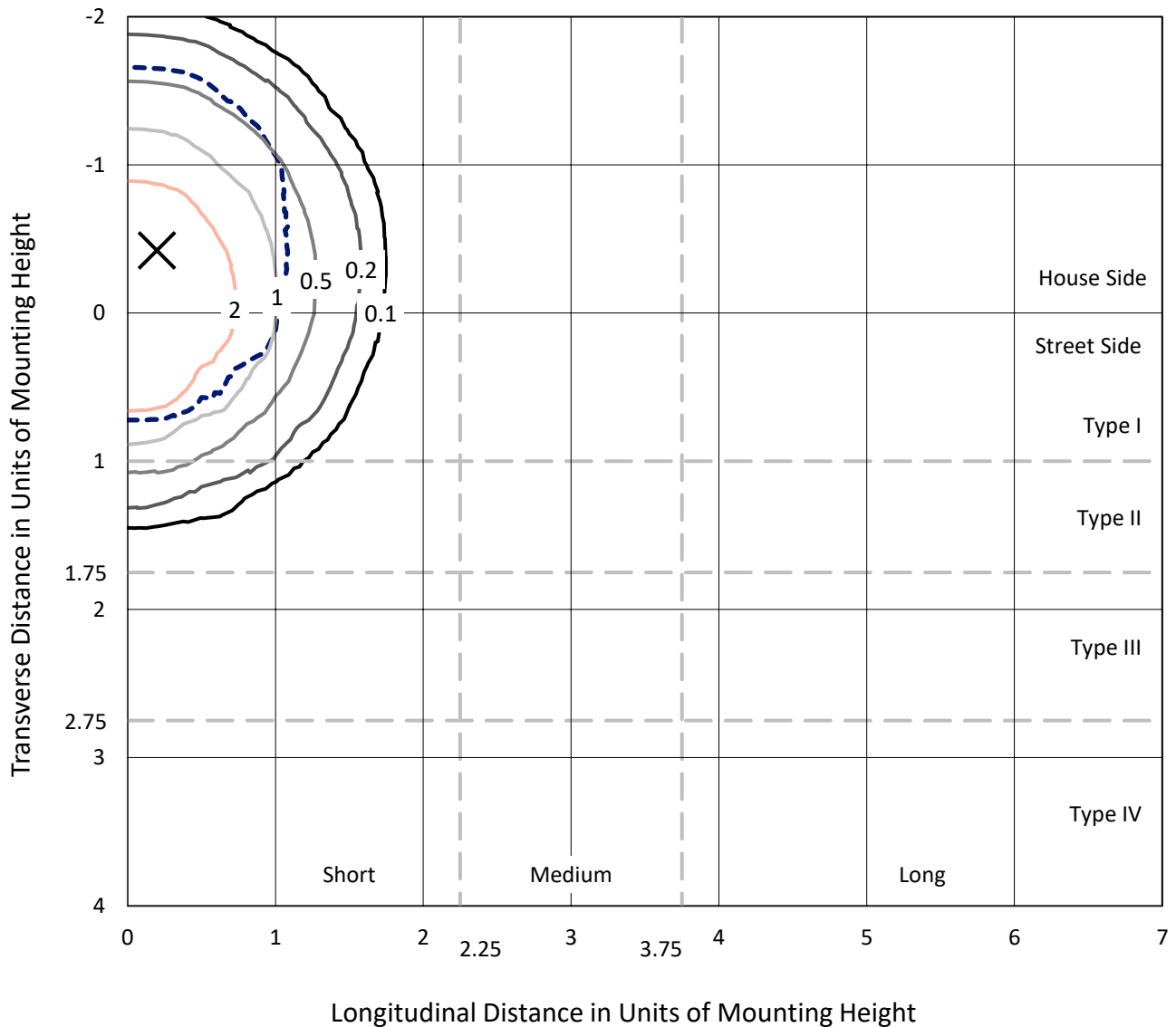
Input Watts (W): 63.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

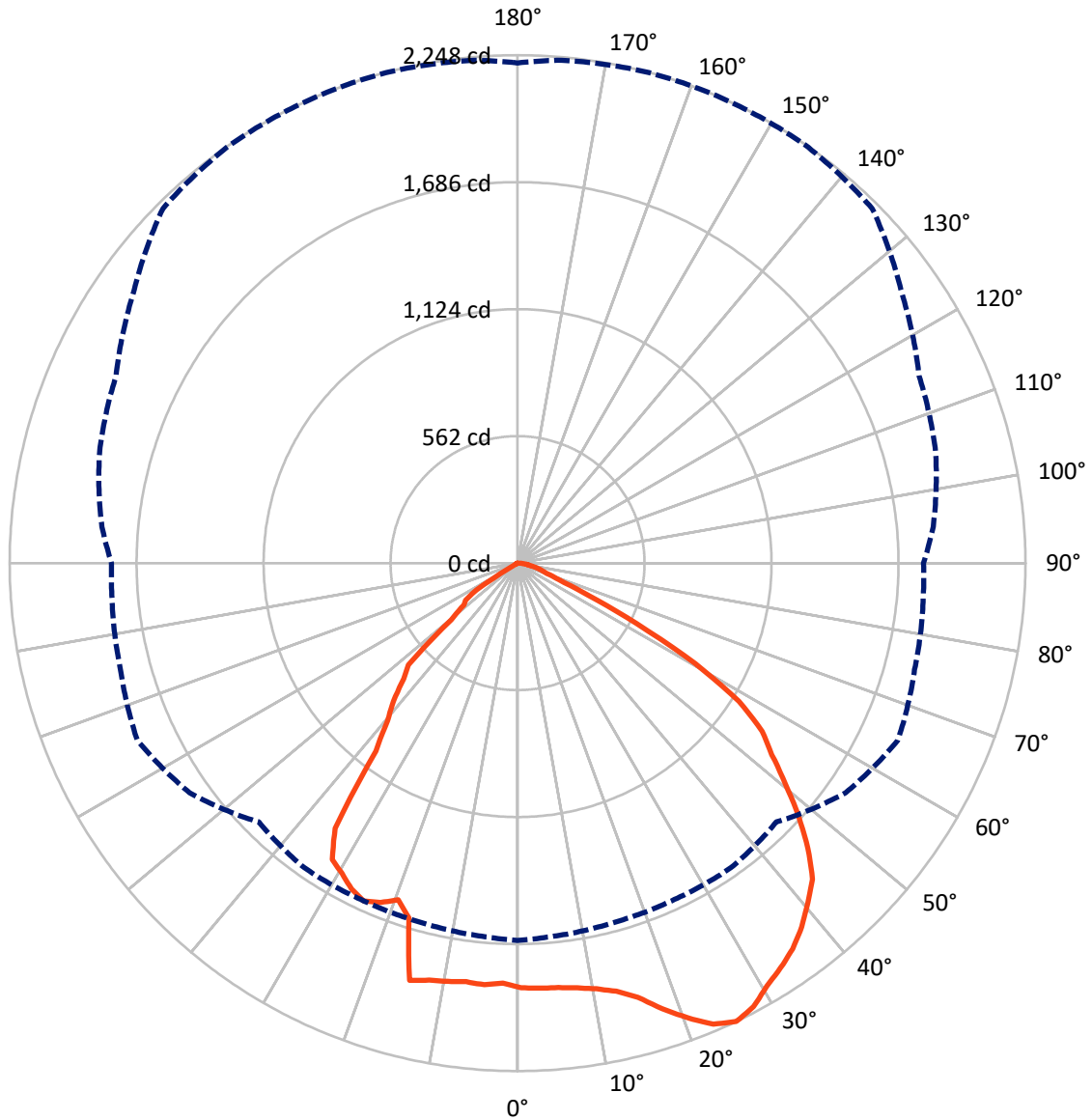
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 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	2696.1	0.0	2696.1
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	1658.7	0.0	1658.7
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	4354.8	0.0	4354.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.3	4.1
10°-20°	550.4	12.6
20°-30°	870.2	20.0
30°-40°	983.0	22.6
40°-50°	920.6	21.1
50°-60°	634.7	14.6
60°-70°	170.5	3.9
70°-80°	35.5	0.8
80°-90°	9.6	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°	4354.8	100.0
0°-180°	4354.8	100.0

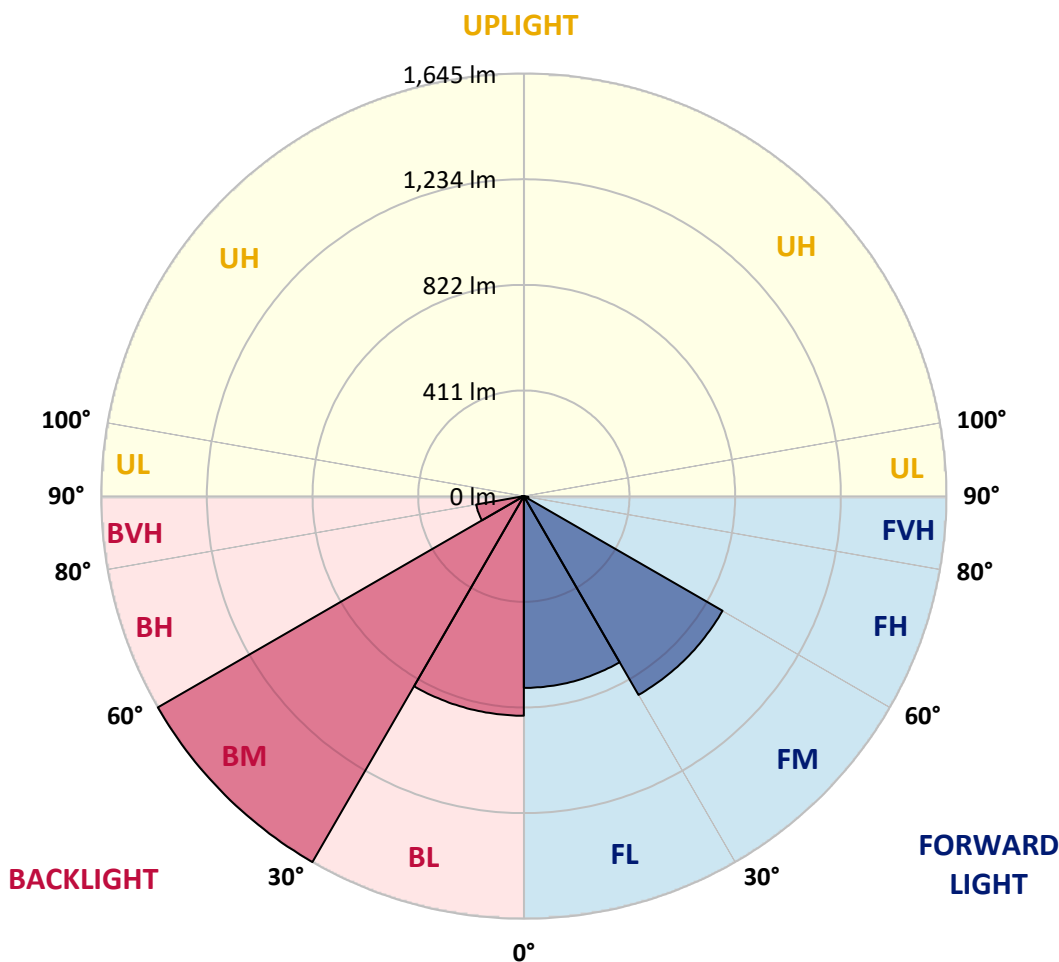


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	746.3	17.1			
FM (30°-60°)	893.3	20.5			
FH (60°-80°)	17.9	0.4			G0/660
FVH (80°-90°)	1.3	0.0			G0/10
BL (0°-30°)	854.6	19.6	B2/1000		
BM (30°-60°)	1645.0	37.8	B2/2500		
BH (60°-80°)	188.1	4.3	B1/500		G1/500
BVH (80°-90°)	8.3	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°	1879.0	1879.0	1879.0	1879.0	1879.0	1879.0	1879.0	1879.0	1879.0	1879.0
2.5°	1887.4	1875.2	1863.7	1859.8	1875.8	1893.1	1882.2	1882.9	1879.0	1886.1
5°	1901.4	1884.8	1877.1	1871.4	1873.9	1891.8	1876.5	1882.2	1875.8	1884.2
7.5°	1896.3	1884.8	1877.1	1866.2	1874.6	1895.7	1881.0	1881.6	1878.4	1886.1
10°	1893.1	1884.8	1875.2	1876.5	1886.1	1904.0	1892.5	1898.9	1894.4	1898.9
12.5°	1900.8	1891.8	1886.7	1886.7	1895.0	1915.5	1909.8	1915.5	1913.6	1917.4
15°	1828.5	1836.8	1885.4	1907.2	1923.8	1944.3	1941.8	1947.5	1948.8	1954.6
17.5°	1542.4	1534.1	1530.2	1642.2	1939.8	2003.2	2001.3	2000.6	1994.2	1989.8
20°	1580.2	1577.0	1572.5	1580.8	1614.1	2033.9	2046.7	1968.0	1945.0	1943.0
22.5°	1640.3	1635.2	1618.6	1619.2	1629.4	1768.3	1983.4	1911.7	1904.0	1899.5
25°	1669.8	1659.5	1646.1	1642.2	1645.4	1619.8	1771.5	1856.6	1818.9	1801.6
27.5°	1617.9	1618.6	1607.7	1617.9	1605.8	1490.6	1425.9	1749.1	1747.8	1740.2
30°	1578.9	1577.0	1564.2	1577.0	1493.1	1364.5	1337.0	1631.4	1617.9	1607.7
32.5°	1459.2	1460.5	1497.6	1547.5	1409.9	1308.2	1225.0	1457.3	1584.6	1578.9
35°	1043.8	1046.4	1178.2	1424.6	1283.8	1196.2	1189.8	1259.5	1532.2	1534.7
37.5°	1004.8	1004.8	1001.6	1041.9	1184.6	1150.7	1163.5	1156.5	1403.5	1409.9
40°	976.6	970.9	966.4	903.0	823.7	1118.7	1127.7	1095.7	1326.7	1328.0
42.5°	942.7	936.3	937.6	820.5	737.3	1039.4	1014.4	971.5	1198.7	1200.0
45°	880.6	891.5	899.2	718.1	711.7	742.4	935.7	908.8	1112.3	1136.0
47.5°	448.0	457.6	702.1	660.5	675.2	659.8	790.4	791.0	925.4	1004.2
50°	406.4	403.8	404.5	385.3	623.4	533.8	571.5	725.1	741.1	853.8
52.5°	378.9	378.2	339.2	301.4	391.7	469.8	414.7	524.8	551.0	723.2
55°	280.3	300.8	267.5	283.5	245.1	376.3	374.4	473.6	482.6	579.8
57.5°	2.6	3.2	7.7	215.7	169.6	188.2	258.6	323.2	339.2	451.8
60°	0.6	1.3	3.2	6.4	110.1	115.8	172.8	186.9	210.6	269.4
62.5°	0.0	0.0	1.3	3.2	5.8	47.4	55.0	60.2	92.8	137.6
65°	0.0	0.0	0.6	1.9	3.2	7.7	13.4	28.2	40.3	49.9
67.5°	0.0	0.0	0.6	1.3	2.6	3.8	7.7	10.9	17.3	29.4
70°	0.0	0.0	0.6	1.3	1.9	3.2	5.1	7.7	10.2	14.7
72.5°	0.0	0.0	0.6	1.3	1.3	3.8	3.8	5.8	7.7	9.6
75°	0.0	0.0	0.6	0.6	1.3	2.6	3.8	4.5	5.1	7.7
77.5°	0.0	0.0	0.6	1.3	1.9	2.6	3.2	5.1	4.5	4.5
80°	0.0	0.0	0.6	1.9	1.9	3.2	3.8	5.1	3.2	3.2
82.5°	0.0	0.0	0.6	2.6	1.9	6.4	6.4	7.0	2.6	2.6
85°	0.0	0.0	1.9	1.3	3.8	6.4	5.8	3.8	3.2	1.9
87.5°	0.0	0.0	0.6	0.6	1.3	1.9	4.5	3.8	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°
1879.0	0°	1879.0	1879.0	1879.0	1879.0	1879.0	1879.0	1879.0	1879.0	1879.0
1867.5	2.5°	1893.1	1884.8	1902.1	1900.2	1891.8	1888.0	1883.5	1879.7	1851.5
1868.8	5°	1893.8	1881.0	1902.1	1898.2	1897.0	1890.6	1886.7	1892.5	1866.9
1873.9	7.5°	1893.8	1881.0	1904.0	1905.3	1903.4	1898.2	1897.6	1901.4	1880.3
1882.9	10°	1906.6	1901.4	1920.6	1922.6	1920.0	1918.7	1915.5	1913.0	1890.6
1913.6	12.5°	1933.4	1923.2	1945.0	1950.7	1948.8	1952.0	1944.3	1948.2	1925.1
1945.0	15°	1966.1	1966.7	1983.4	1996.2	1994.9	2005.1	1993.6	2003.8	1987.2
1980.8	17.5°	2016.0	2023.0	2046.7	2065.9	2073.0	2080.6	2073.0	2076.2	2052.5
1941.1	20°	1963.5	1989.8	2103.7	2138.9	2153.6	2160.6	2147.8	2151.7	2128.0
1892.5	22.5°	1916.2	1950.1	2051.2	2161.3	2206.7	2220.8	2216.3	2215.7	2206.7
1796.5	25°	1846.4	1914.9	1960.3	2076.8	2219.5	2245.1	2247.7	2247.1	2233.6
1737.6	27.5°	1760.6	1776.0	1893.8	1964.8	2129.9	2227.2	2223.4	2204.8	2186.9
1615.4	30°	1651.2	1721.0	1774.1	1887.4	2014.1	2172.2	2172.2	2158.1	2139.5
1571.8	32.5°	1595.5	1685.8	1735.0	1776.0	1884.2	2110.7	2136.3	2121.6	2106.9
1537.9	35°	1566.1	1579.5	1694.7	1731.8	1823.4	1992.3	2096.0	2081.3	2070.4
1447.7	37.5°	1501.4	1532.8	1586.6	1685.8	1713.9	1895.7	2042.2	2034.6	2021.8
1330.6	40°	1357.4	1441.3	1523.8	1617.9	1647.4	1771.5	1977.0	1980.2	1962.9
1205.8	42.5°	1272.3	1329.3	1458.6	1521.9	1601.3	1691.5	1913.6	1918.7	1906.6
1142.4	45°	1172.5	1235.8	1326.7	1441.9	1550.1	1581.4	1801.6	1855.4	1845.1
1016.3	47.5°	1081.0	1132.2	1243.5	1360.0	1479.7	1475.2	1673.0	1774.1	1760.0
919.7	50°	951.0	1040.6	1093.1	1200.0	1378.6	1390.7	1536.0	1678.7	1667.2
781.4	52.5°	801.9	914.6	1015.0	1113.0	1276.2	1305.0	1408.6	1581.4	1573.8
597.1	55°	700.8	782.7	896.0	974.7	1152.0	1228.8	1313.3	1488.6	1484.8
490.9	57.5°	498.6	656.6	750.1	860.2	953.6	1092.5	1155.2	1299.8	1264.0
272.0	60°	337.9	412.2	526.1	644.5	707.2	846.1	904.3	1020.2	1010.6
162.6	62.5°	178.6	247.0	328.3	387.8	433.3	568.3	592.6	717.4	714.2
65.3	65°	78.7	104.3	177.9	208.6	255.4	318.1	339.2	384.0	373.1
32.0	67.5°	41.0	62.1	100.5	123.5	155.5	179.2	196.5	210.6	219.5
21.1	70°	25.0	45.4	62.1	85.8	106.9	126.1	139.5	158.7	170.2
10.9	72.5°	18.6	28.8	42.9	65.9	77.4	99.8	113.3	127.4	137.6
9.0	75°	10.2	19.2	34.6	51.8	62.1	81.3	93.4	103.0	106.2
5.1	77.5°	6.4	14.7	28.8	40.3	48.6	65.9	62.7	71.7	79.4
3.8	80°	4.5	10.9	22.4	33.3	33.9	42.2	49.9	57.6	62.7
2.6	82.5°	3.2	9.0	16.6	25.6	22.4	32.6	39.0	44.8	32.6
1.9	85°	2.6	6.4	8.3	15.4	12.8	23.0	19.8	19.2	12.8
1.3	87.5°	1.9	3.2	5.8	7.0	5.1	5.1	6.4	7.7	6.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
1879.0  
1832.3  
1845.1  
1856.0  
1872.0  
1904.6  
1959.7  
2032.0  
2111.4  
2177.9  
*2213.1*  
2172.8  
2132.5  
2094.7  
2055.0  
2009.0  
1959.0  
1905.3  
1846.4  
1770.2  
1669.1  
1578.9  
1489.3  
1260.2  
1011.2  
714.9  
368.6  
219.5  
170.9  
139.5  
104.3  
80.6  
63.4  
23.7  
12.8  
6.4  
0.0

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