

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: P636853

Luminaire Tested: **IFLD-S-SA2A-927-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636853
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-927-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4307.9 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

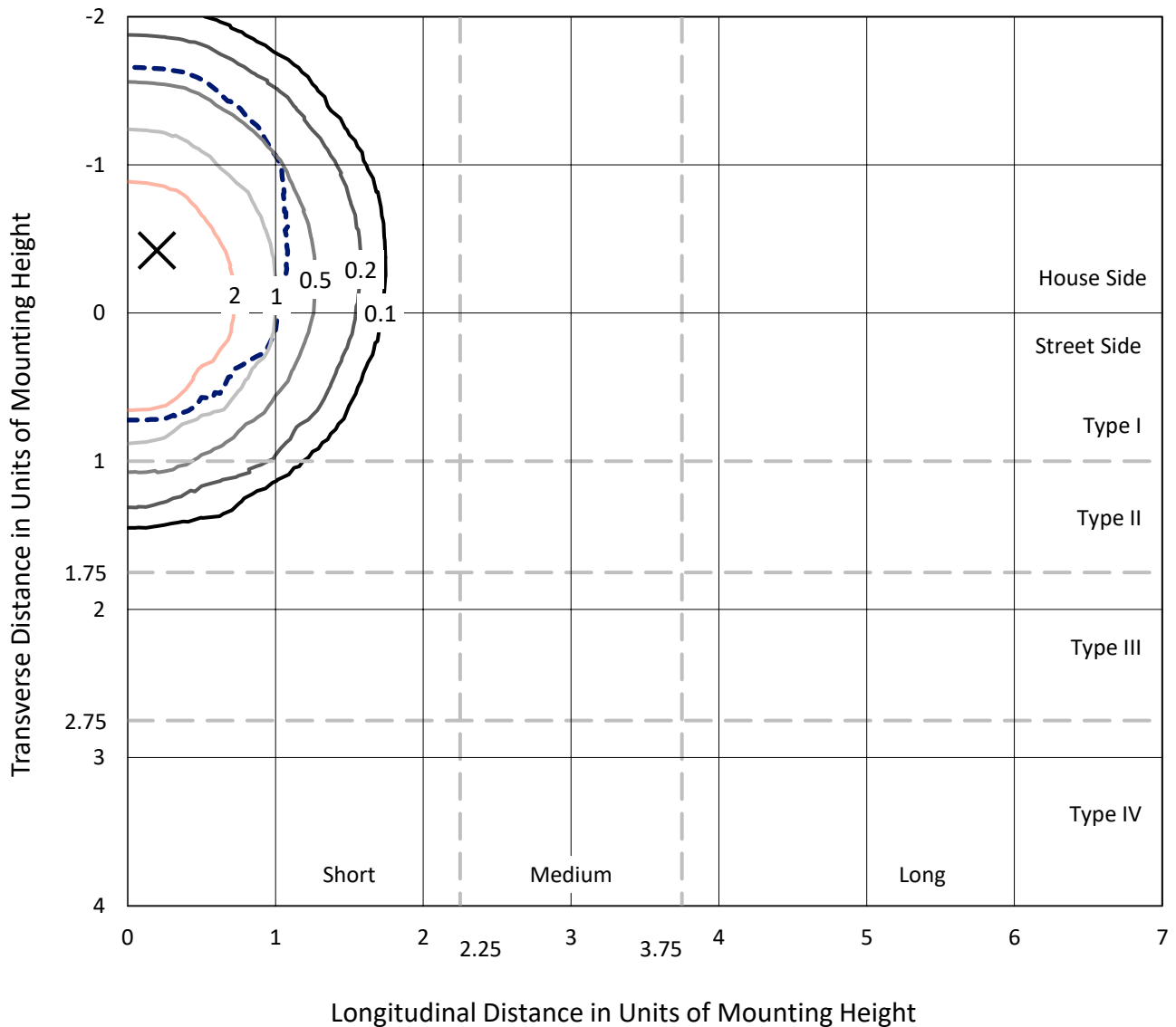
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

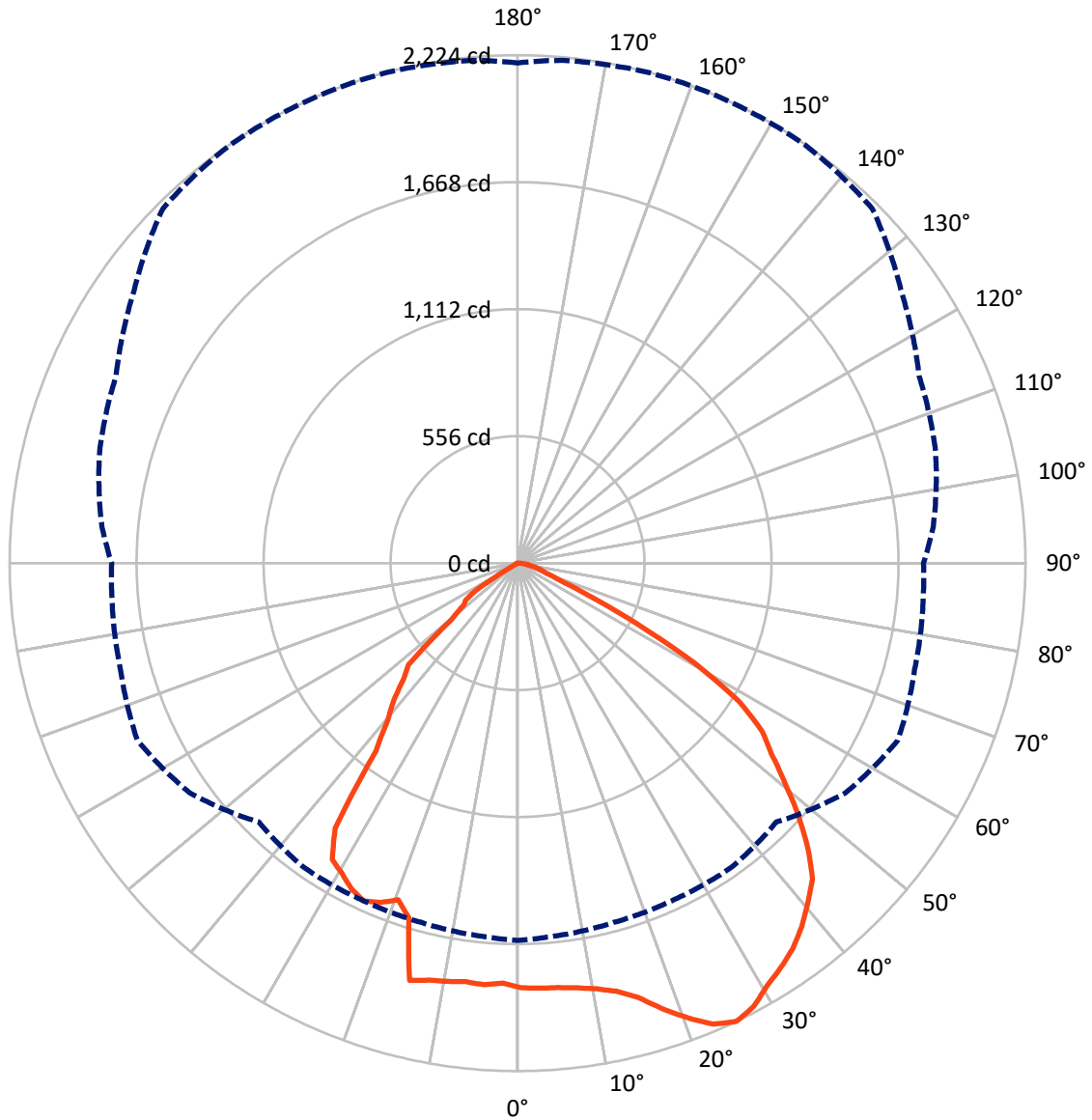
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 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
House Side	Lumens	2667.1	0.0	2667.1
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	1640.9	0.0	1640.9
	% Fixture	38.1	0.0	38.1
Total	Lumens	4307.9	0.0	4307.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.3	4.1
10°-20°	544.5	12.6
20°-30°	860.8	20.0
30°-40°	972.4	22.6
40°-50°	910.7	21.1
50°-60°	627.8	14.6
60°-70°	168.7	3.9
70°-80°	35.2	0.8
80°-90°	9.5	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°	4307.9	100.0
0°-180°	4307.9	100.0



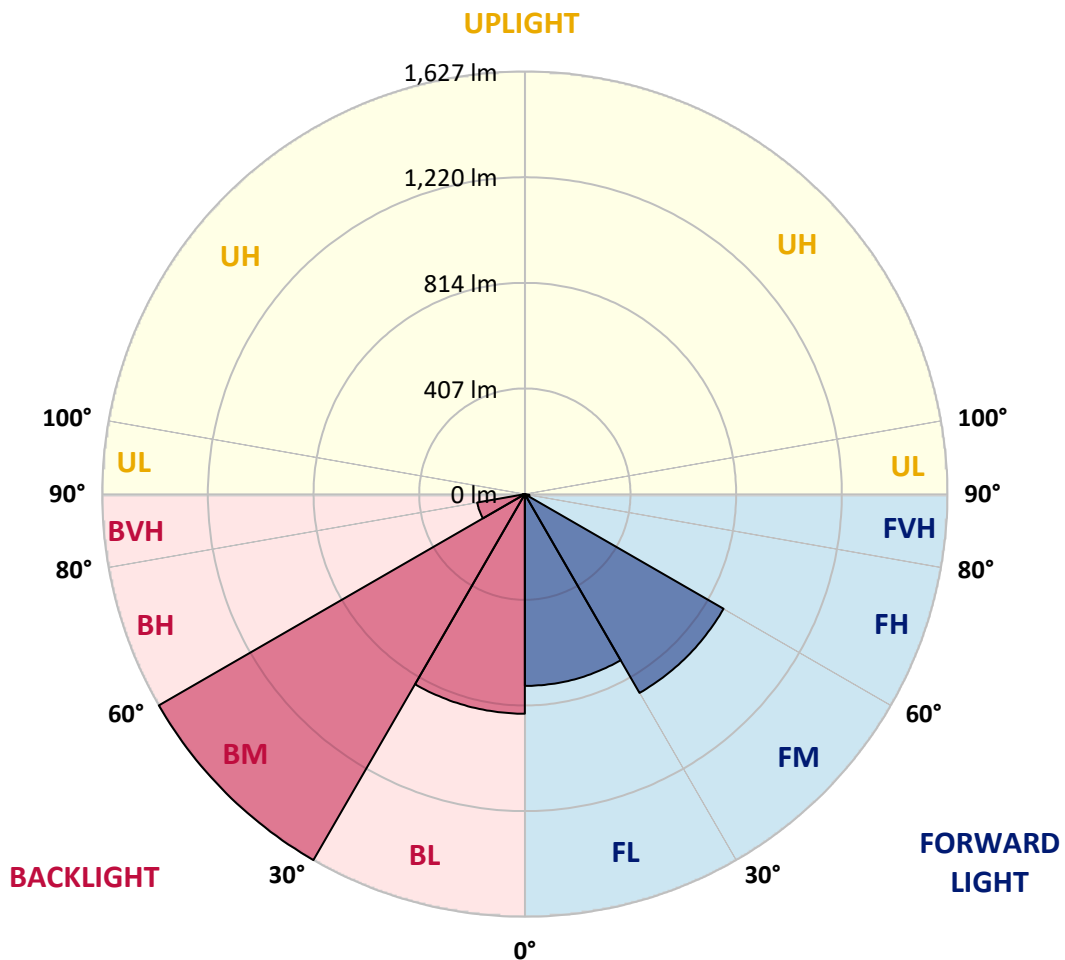
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	738.2	17.1			
FM (30°-60°)	883.7	20.5			
FH (60°-80°)	17.7	0.4			G0/660
FVH (80°-90°)	1.3	0.0			G0/10
BL (0°-30°)	845.4	19.6	B2/1000		
BM (30°-60°)	1627.2	37.8	B2/2500		
BH (60°-80°)	186.1	4.3	B1/500		G1/500
BVH (80°-90°)	8.2	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°	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8
2.5°	1867.0	1855.0	1843.6	1839.8	1855.6	1872.7	1862.0	1862.6	1858.8	1865.8
5°	1880.9	1864.5	1856.9	1851.2	1853.7	1871.5	1856.3	1862.0	1855.6	1863.9
7.5°	1875.9	1864.5	1856.9	1846.1	1854.4	1875.3	1860.7	1861.3	1858.2	1865.8
10°	1872.7	1864.5	1855.0	1856.3	1865.8	1883.5	1872.1	1878.4	1874.0	1878.4
12.5°	1880.3	1871.5	1866.4	1866.4	1874.6	1894.9	1889.2	1894.9	1893.0	1896.8
15°	1808.8	1817.0	1865.1	1886.6	1903.1	1923.4	1920.8	1926.5	1927.8	1933.5
17.5°	1525.8	1517.5	1513.7	1624.5	1918.9	1981.6	1979.7	1979.1	1972.7	1968.3
20°	1563.1	1560.0	1555.5	1563.8	1596.7	2012.0	2024.7	1946.8	1924.0	1922.1
22.5°	1622.6	1617.6	1601.1	1601.8	1611.9	1749.3	1962.0	1891.1	1883.5	1879.0
25°	1651.8	1641.6	1628.3	1624.5	1627.7	1602.4	1752.4	1836.6	1799.3	1782.2
27.5°	1600.5	1601.1	1590.4	1600.5	1588.5	1474.5	1410.6	1730.3	1729.0	1721.4
30°	1561.9	1560.0	1547.3	1560.0	1477.0	1349.8	1322.6	1613.8	1600.5	1590.4
32.5°	1443.5	1444.7	1481.5	1530.8	1394.7	1294.1	1211.8	1441.6	1567.6	1561.9
35°	1032.6	1035.1	1165.5	1409.3	1270.0	1183.3	1176.9	1245.9	1515.6	1518.2
37.5°	994.0	994.0	990.8	1030.7	1171.9	1138.3	1151.0	1144.0	1388.4	1394.7
40°	966.1	960.4	956.0	893.3	814.8	1106.7	1115.5	1083.9	1312.4	1313.7
42.5°	932.6	926.2	927.5	811.6	729.3	1028.2	1003.5	961.1	1185.8	1187.1
45°	871.1	881.9	889.5	710.3	704.0	734.4	925.6	899.0	1100.3	1123.8
47.5°	443.2	452.7	694.5	653.4	667.9	652.7	781.9	782.5	915.5	993.3
50°	402.0	399.5	400.1	381.1	616.6	528.0	565.4	717.3	733.1	844.6
52.5°	374.8	374.2	335.5	298.2	387.5	464.7	410.3	519.1	545.1	715.4
55°	277.3	297.6	264.6	280.5	242.5	372.3	370.4	468.5	477.4	573.6
57.5°	2.5	3.2	7.6	213.4	167.8	186.1	255.8	319.7	335.5	447.0
60°	0.6	1.3	3.2	6.3	108.9	114.6	170.9	184.9	208.3	266.5
62.5°	0.0	0.0	1.3	3.2	5.7	46.8	54.4	59.5	91.8	136.1
65°	0.0	0.0	0.6	1.9	3.2	7.6	13.3	27.9	39.9	49.4
67.5°	0.0	0.0	0.6	1.3	2.5	3.8	7.6	10.8	17.1	29.1
70°	0.0	0.0	0.6	1.3	1.9	3.2	5.1	7.6	10.1	14.6
72.5°	0.0	0.0	0.6	1.3	1.3	3.8	3.8	5.7	7.6	9.5
75°	0.0	0.0	0.6	0.6	1.3	2.5	3.8	4.4	5.1	7.6
77.5°	0.0	0.0	0.6	1.3	1.9	2.5	3.2	5.1	4.4	4.4
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	2.5	1.9	6.3	6.3	7.0	2.5	2.5
85°	0.0	0.0	1.9	1.3	3.8	6.3	5.7	3.8	3.2	1.9
87.5°	0.0	0.0	0.6	0.6	1.3	1.9	4.4	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°
1858.8	0°	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8
1847.4	2.5°	1872.7	1864.5	1881.6	1879.7	1871.5	1867.7	1863.2	1859.4	1831.6
1848.7	5°	1873.4	1860.7	1881.6	1877.8	1876.5	1870.2	1866.4	1872.1	1846.8
1853.7	7.5°	1873.4	1860.7	1883.5	1884.7	1882.8	1877.8	1877.2	1880.9	1860.1
1862.6	10°	1886.0	1880.9	1899.9	1901.8	1899.3	1898.0	1894.9	1892.3	1870.2
1893.0	12.5°	1912.6	1902.5	1924.0	1929.7	1927.8	1931.0	1923.4	1927.2	1904.4
1924.0	15°	1944.9	1945.5	1962.0	1974.6	1973.4	1983.5	1972.1	1982.2	1965.8
1959.5	17.5°	1994.3	2001.2	2024.7	2043.7	2050.6	2058.2	2050.6	2053.8	2030.4
1920.2	20°	1942.4	1968.3	2081.0	2115.8	2130.4	2137.4	2124.7	2128.5	2105.1
1872.1	22.5°	1895.5	1929.1	2029.1	2138.0	2182.9	2196.9	2192.4	2191.8	2182.9
1777.1	25°	1826.5	1894.2	1939.2	2054.4	2195.6	2220.9	2223.5	2222.8	2209.5
1718.9	27.5°	1741.7	1756.9	1873.4	1943.6	2107.0	2203.2	2199.4	2181.0	2163.3
1598.0	30°	1633.4	1702.4	1755.0	1867.0	1992.4	2148.8	2148.8	2134.8	2116.5
1554.9	32.5°	1578.3	1667.6	1716.3	1756.9	1863.9	2088.0	2113.3	2098.7	2084.2
1521.3	35°	1549.2	1562.5	1676.5	1713.2	1803.7	1970.8	2073.4	2058.9	2048.1
1432.1	37.5°	1485.3	1516.3	1569.5	1667.6	1695.4	1875.3	2020.2	2012.6	2000.0
1316.2	40°	1342.8	1425.7	1507.4	1600.5	1629.6	1752.4	1955.7	1958.8	1941.7
1192.8	42.5°	1258.6	1315.0	1442.8	1505.5	1584.0	1673.3	1893.0	1898.0	1886.0
1130.1	45°	1159.8	1222.5	1312.4	1426.4	1533.4	1564.4	1782.2	1835.4	1825.2
1005.4	47.5°	1069.3	1120.0	1230.1	1345.3	1463.7	1459.3	1654.9	1755.0	1741.0
909.8	50°	940.8	1029.4	1081.3	1187.1	1363.7	1375.7	1519.4	1660.6	1649.2
773.0	52.5°	793.3	904.7	1004.1	1101.0	1262.4	1290.9	1393.5	1564.4	1556.8
590.7	55°	693.2	774.3	886.3	964.2	1139.6	1215.6	1299.1	1472.6	1468.8
485.6	57.5°	493.2	649.6	742.0	850.9	943.3	1080.7	1142.8	1285.8	1250.4
269.1	60°	334.3	407.7	520.4	637.5	699.6	837.0	894.6	1009.2	999.7
160.8	62.5°	176.6	244.4	324.8	383.7	428.6	562.2	586.3	709.7	706.5
64.6	65°	77.9	103.2	176.0	206.4	252.6	314.7	335.5	379.9	369.1
31.7	67.5°	40.5	61.4	99.4	122.2	153.8	177.3	194.4	208.3	217.2
20.9	70°	24.7	45.0	61.4	84.8	105.7	124.7	138.0	157.0	168.4
10.8	72.5°	18.4	28.5	42.4	65.2	76.6	98.8	112.1	126.0	136.1
8.9	75°	10.1	19.0	34.2	51.3	61.4	80.4	92.4	101.9	105.1
5.1	77.5°	6.3	14.6	28.5	39.9	48.1	65.2	62.0	70.9	78.5
3.8	80°	4.4	10.8	22.2	32.9	33.6	41.8	49.4	57.0	62.0
2.5	82.5°	3.2	8.9	16.5	25.3	22.2	32.3	38.6	44.3	32.3
1.9	85°	2.5	6.3	8.2	15.2	12.7	22.8	19.6	19.0	12.7
1.3	87.5°	1.9	3.2	5.7	7.0	5.1	5.1	6.3	7.6	6.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
1858.8
1812.6
1825.2
1836.0
1851.8
1884.1
1938.6
2010.1
2088.6
2154.4
2189.3
2149.4
2109.5
2072.1
2032.9
1987.3
1937.9
1884.7
1826.5
1751.2
1651.1
1561.9
1473.2
1246.6
1000.3
707.2
364.7
217.2
169.0
138.0
103.2
79.8
62.7
23.4
12.7
6.3
0.0

(END OF REPORT)