

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: P477552

Luminaire Tested: **IFLD-M-SA4A-830-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477552
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-830-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

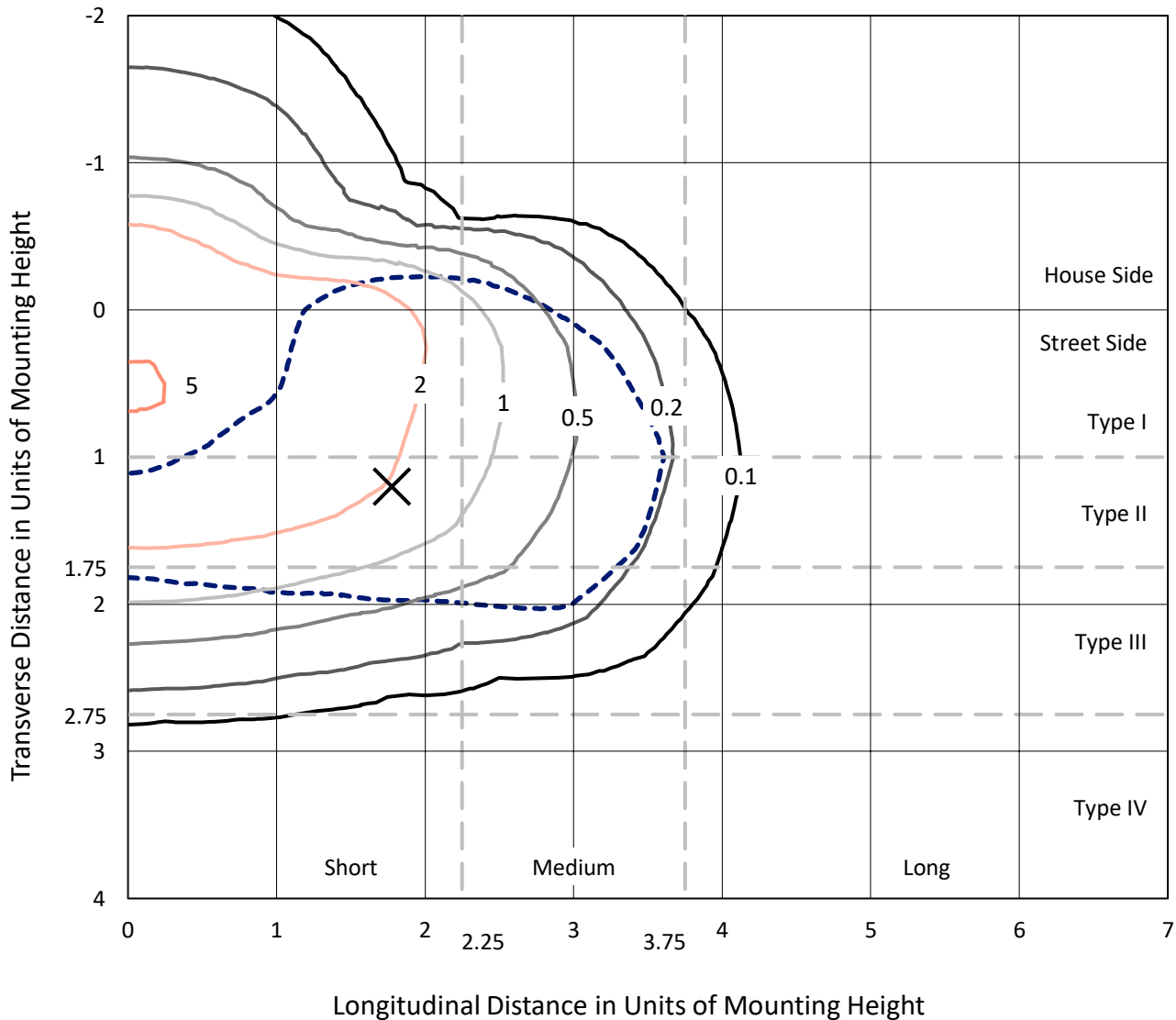
Lumens per Lamp: N/A
Luminaire Lumens: 14945.9 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (A_{in}): 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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

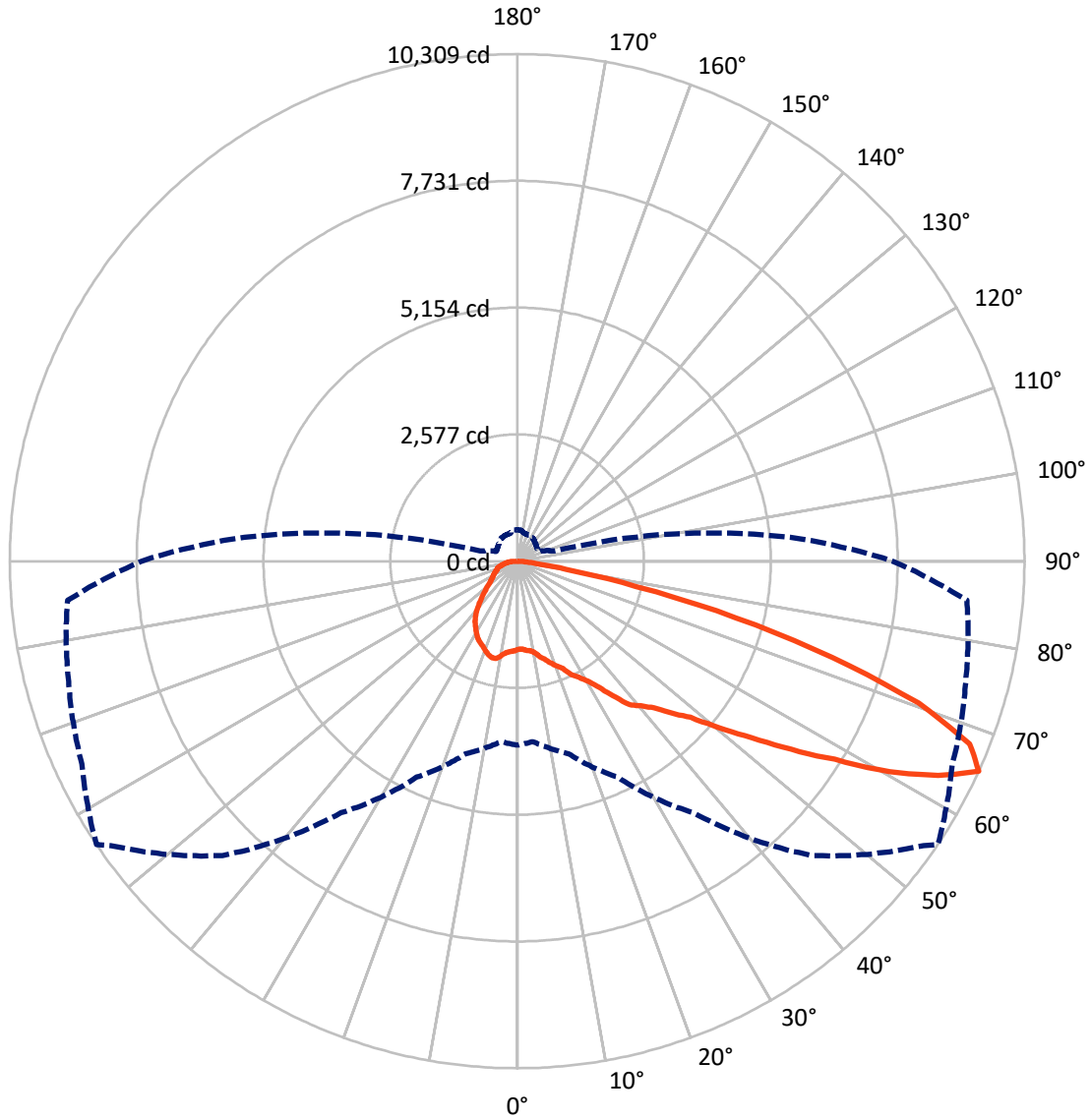
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3351.9	0.0	3351.9
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	11594.0	0.0	11594.0
	% Fixture	77.6	0.0	77.6
Total	Lumens	14945.9	0.0	14945.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.8	1.2
10°-20°	577.3	3.9
20°-30°	1027.8	6.9
30°-40°	1539.2	10.3
40°-50°	2280.4	15.3
50°-60°	3513.8	23.5
60°-70°	3978.1	26.6
70°-80°	1651.0	11.0
80°-90°	200.6	1.3
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°	14945.9	100.0
0°-180°	14945.9	100.0

Coefficient of Utilization

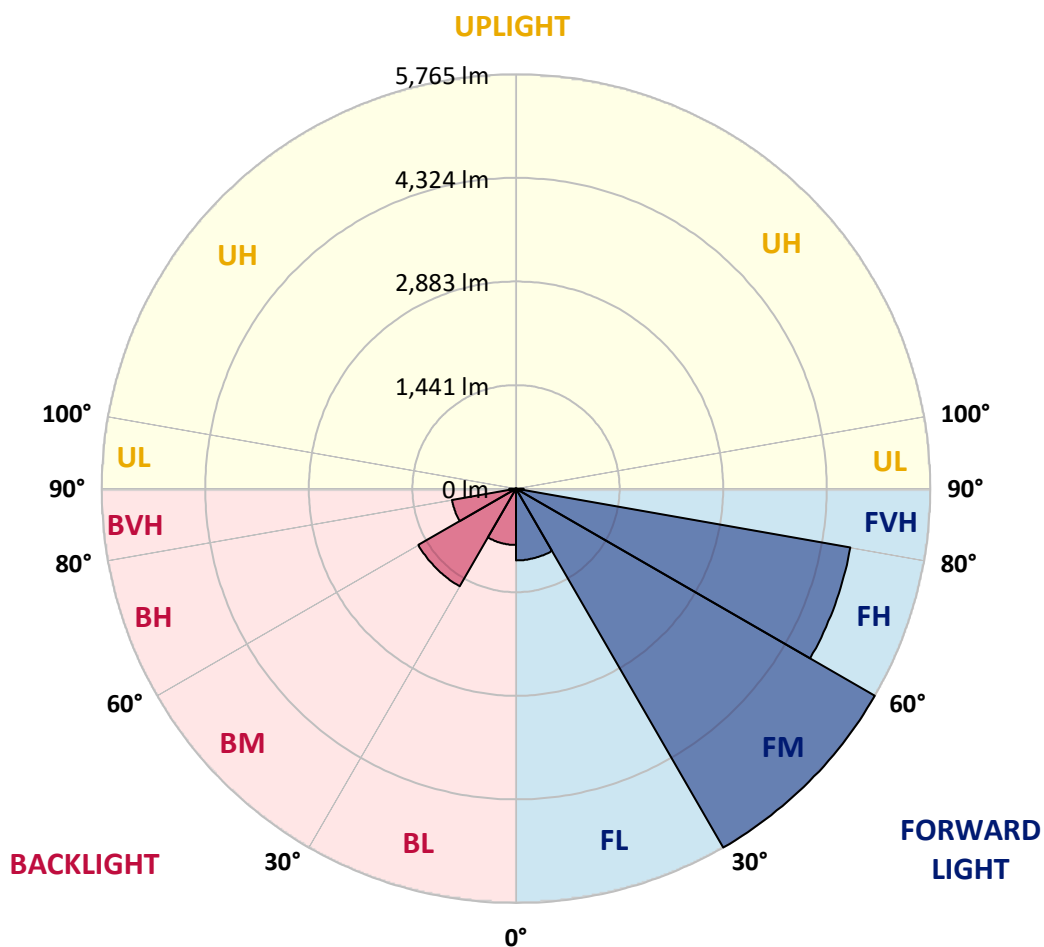


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	998.8	6.7			
FM (30°-60°)	5765.5	38.6			
FH (60°-80°)	4723.9	31.6			G2/5000
FVH (80°-90°)	105.8	0.7			G2/225
BL (0°-30°)	784.0	5.2	B2/1000		
BM (30°-60°)	1568.0	10.5	B2/2500		
BH (60°-80°)	905.1	6.1	B2/1000		G2/1000
BVH (80°-90°)	94.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	1793.9	1793.9	1793.9	1793.9	1793.9	1793.9	1793.9	1793.9	1793.9	1793.9
2.5°	1747.0	1756.4	1750.1	1768.9	1784.6	1784.6	1797.1	1787.7	1800.2	1817.4
5°	1804.9	1767.4	1787.7	1797.1	1792.4	1800.2	1787.7	1819.0	1798.6	1831.5
7.5°	1819.0	1833.0	1850.2	1834.6	1848.7	1840.9	1842.4	1837.7	1826.8	1853.4
10°	1922.2	1901.9	1941.0	1917.5	1914.4	1911.2	1905.0	1881.5	1908.1	1909.7
12.5°	2041.1	2022.3	2020.7	2002.0	2027.0	1981.6	1991.0	1978.5	1983.2	1989.4
15°	2127.1	2119.3	2155.2	2133.3	2100.5	2080.2	2102.1	2067.6	2084.8	2081.7
17.5°	2297.6	2296.0	2269.4	2233.4	2214.7	2184.9	2180.3	2166.2	2178.7	2172.4
20°	2416.4	2433.6	2438.3	2396.1	2324.1	2291.3	2283.5	2272.5	2286.6	2281.9
22.5°	2597.8	2571.3	2591.6	2518.1	2491.5	2413.3	2385.1	2369.5	2436.8	2419.6
25°	2713.6	2741.7	2721.4	2696.4	2637.0	2540.0	2519.6	2554.1	2580.6	2561.9
27.5°	2974.8	2946.6	2927.9	2852.8	2813.7	2712.0	2688.6	2676.1	2682.3	2693.3
30°	3173.4	3189.1	3146.8	3093.6	2995.1	2891.9	2837.1	2826.2	2804.3	2785.5
32.5°	3456.5	3433.0	3408.0	3373.6	3289.1	3153.1	3099.9	3059.2	2993.5	2906.0
35°	3592.6	3659.8	3641.1	3548.8	3484.7	3433.0	3417.4	3354.8	3300.1	3162.5
37.5°	3819.4	3847.5	3820.9	3791.2	3761.5	3706.7	3688.0	3705.2	3597.3	3370.5
40°	3966.4	4025.8	4080.5	3997.7	3991.4	4002.3	3886.6	3866.3	3644.2	3525.3
42.5°	4266.7	4291.7	4302.6	4299.5	4335.5	4335.5	4115.0	4071.2	3913.2	3816.2
45°	4663.9	4684.3	4723.4	4751.5	4710.9	4731.2	4416.8	4399.6	4258.8	4240.1
47.5°	5008.0	5056.5	5144.1	5227.0	5280.2	5211.3	4867.3	4745.3	4709.3	4821.9
50°	5308.3	5250.4	5455.3	5539.8	5772.8	5887.0	5364.6	5316.1	5258.3	5474.1
52.5°	5338.0	5416.2	5705.6	5874.5	6354.6	6565.8	5974.6	5954.3	5883.9	6132.6
55°	5550.7	5541.3	5832.3	6198.2	6769.1	7124.1	6769.1	6756.6	6603.3	6839.5
57.5°	5514.8	5610.2	5840.1	6351.5	7142.9	7723.2	7690.3	7604.3	7390.0	7582.4
60°	5392.8	5417.8	5697.8	6346.8	7360.3	8337.8	8685.0	8702.2	8264.3	8417.6
62.5°	4701.5	4759.3	5114.4	5847.9	7205.5	8761.7	9656.3	9595.3	9245.0	9069.8
65°	3739.6	3681.7	4050.8	4843.8	6242.0	8461.4	10081.7	10308.5	9758.0	9437.3
67.5°	2292.9	2278.8	2633.8	3332.9	4670.2	7200.8	9742.3	9919.1	9615.6	9359.1
70°	1180.8	1144.9	1367.0	1859.6	2935.7	5283.3	8478.6	8652.2	8941.5	8394.1
72.5°	550.5	542.7	661.6	915.0	1495.2	3106.2	6565.8	6690.9	7300.9	7077.2
75°	323.8	328.4	395.7	478.6	728.8	1463.9	4357.4	4599.8	5261.4	5100.3
77.5°	242.4	242.4	281.5	333.1	425.4	566.2	2150.5	2471.2	3076.4	2766.8
80°	178.3	181.4	215.8	250.2	295.6	292.5	854.0	1001.0	1410.8	1205.9
82.5°	139.2	143.9	167.4	186.1	208.0	176.7	350.3	376.9	580.3	461.4
85°	97.0	100.1	131.4	126.7	126.7	98.5	145.5	153.3	229.9	219.0
87.5°	23.5	26.6	64.1	70.4	53.2	29.7	45.4	51.6	82.9	95.4
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1793.9	0°	1793.9	1793.9	1793.9	1793.9	1793.9	1793.9	1793.9	1793.9	1793.9	1793.9
1825.2	2.5°	1801.8	1808.0	1834.6	1820.5	1828.3	1795.5	1822.1	1800.2	1819.0	1809.6
1839.3	5°	1851.8	1837.7	1853.4	1842.4	1842.4	1854.9	1873.7	1859.6	1887.8	1875.3
1850.2	7.5°	1872.1	1873.7	1883.1	1884.7	1876.8	1915.9	1917.5	1912.8	1939.4	1933.1
1925.3	10°	1922.2	1923.8	1941.0	1950.3	1942.5	1956.6	1941.0	1928.4	1926.9	1920.6
1984.8	12.5°	2002.0	2017.6	2014.5	2022.3	2023.9	1964.4	1928.4	1867.4	1859.6	1867.4
2072.3	15°	2075.5	2069.2	2072.3	2088.0	2022.3	1926.9	1862.8	1811.1	1814.3	1815.8
2186.5	17.5°	2163.0	2167.7	2172.4	2100.5	1980.1	1867.4	1811.1	1811.1	1795.5	1801.8
2266.3	20°	2263.1	2244.4	2203.7	2102.1	1906.5	1798.6	1781.4	1781.4	1762.7	1750.1
2352.3	22.5°	2341.3	2303.8	2242.8	2053.6	1840.9	1772.0	1729.8	1700.1	1678.2	1653.2
2447.7	25°	2391.4	2371.1	2252.2	2003.5	1792.4	1701.7	1639.1	1593.7	1565.6	1532.7
2522.8	27.5°	2468.0	2428.9	2278.8	1945.7	1739.2	1631.3	1534.3	1463.9	1410.8	1376.3
2637.0	30°	2571.3	2515.0	2260.0	1862.8	1657.9	1509.3	1395.1	1304.4	1243.4	1215.2
2744.9	32.5°	2655.7	2582.2	2244.4	1787.7	1567.2	1385.7	1234.0	1141.7	1107.3	1071.4
2926.3	35°	2816.8	2671.4	2233.4	1745.5	1485.8	1262.2	1102.6	1022.9	979.1	925.9
3034.2	37.5°	2940.4	2826.2	2206.8	1657.9	1381.0	1141.7	1002.5	930.6	864.9	808.6
3284.5	40°	3134.3	3042.0	2208.4	1534.3	1257.5	1038.5	924.3	849.3	766.4	717.9
3655.1	42.5°	3498.7	3254.7	2217.8	1435.8	1118.3	954.1	854.0	764.8	681.9	641.3
4077.4	45°	3946.0	3547.2	2159.9	1346.6	976.0	874.3	769.5	680.4	627.2	597.5
4651.4	47.5°	4460.6	3833.4	2081.7	1179.3	857.1	789.8	691.3	639.7	600.6	583.4
5391.2	50°	5036.2	4243.2	2059.8	1026.0	764.8	717.9	653.8	614.7	588.1	567.7
6224.8	52.5°	5777.5	4720.2	2016.0	868.0	685.0	660.0	639.7	613.1	589.6	572.4
7002.2	55°	6486.0	5248.9	1969.1	738.2	628.7	631.9	642.8	619.4	599.0	572.4
7873.3	57.5°	7283.7	5788.5	1795.5	642.8	586.5	617.8	639.7	613.1	592.8	572.4
8764.8	60°	7776.3	6091.9	1456.1	559.9	549.0	591.2	620.9	592.8	570.9	578.7
9174.6	62.5°	7976.5	5932.4	1097.9	508.3	522.4	555.2	591.2	580.3	564.6	594.3
9169.9	65°	7635.6	5564.8	785.1	464.5	486.4	519.3	564.6	577.1	581.8	639.7
8422.3	67.5°	6794.1	4845.4	577.1	428.5	448.9	497.4	583.4	603.7	600.6	672.5
7067.8	70°	5436.6	3789.6	450.4	398.8	434.8	514.6	610.0	610.0	588.1	672.5
5391.2	72.5°	3955.4	2671.4	387.9	364.4	398.8	472.3	606.8	605.3	577.1	614.7
3433.0	75°	2394.5	1554.6	342.5	330.0	342.5	405.1	580.3	570.9	531.8	528.6
1651.6	77.5°	1193.4	782.0	280.0	292.5	298.7	339.4	509.9	523.9	470.8	458.3
652.2	80°	503.6	341.0	233.0	251.8	251.8	286.2	423.9	433.2	391.0	367.5
258.1	82.5°	229.9	195.5	198.6	219.0	204.9	222.1	336.3	347.2	317.5	278.4
109.5	85°	97.0	111.0	151.7	172.0	151.7	143.9	231.5	244.0	206.5	172.0
46.9	87.5°	43.8	61.0	95.4	125.1	76.6	67.3	123.6	128.3	103.2	76.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O



<u>180°</u>
1793.9
1792.4
1858.1
1923.8
1920.6
1870.6
1837.7
1803.3
1731.4
1639.1
1539.0
1392.0
1230.9
1069.8
921.2
810.2
722.6
644.4
603.7
580.3
570.9
570.9
570.9
570.9
572.4
586.5
639.7
677.2
658.5
592.8
522.4
450.4
359.7
272.1
173.6
71.9
0.0

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