

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: P477334

Luminaire Tested: **IFLD-S-SA2C-735-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477334
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-735-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

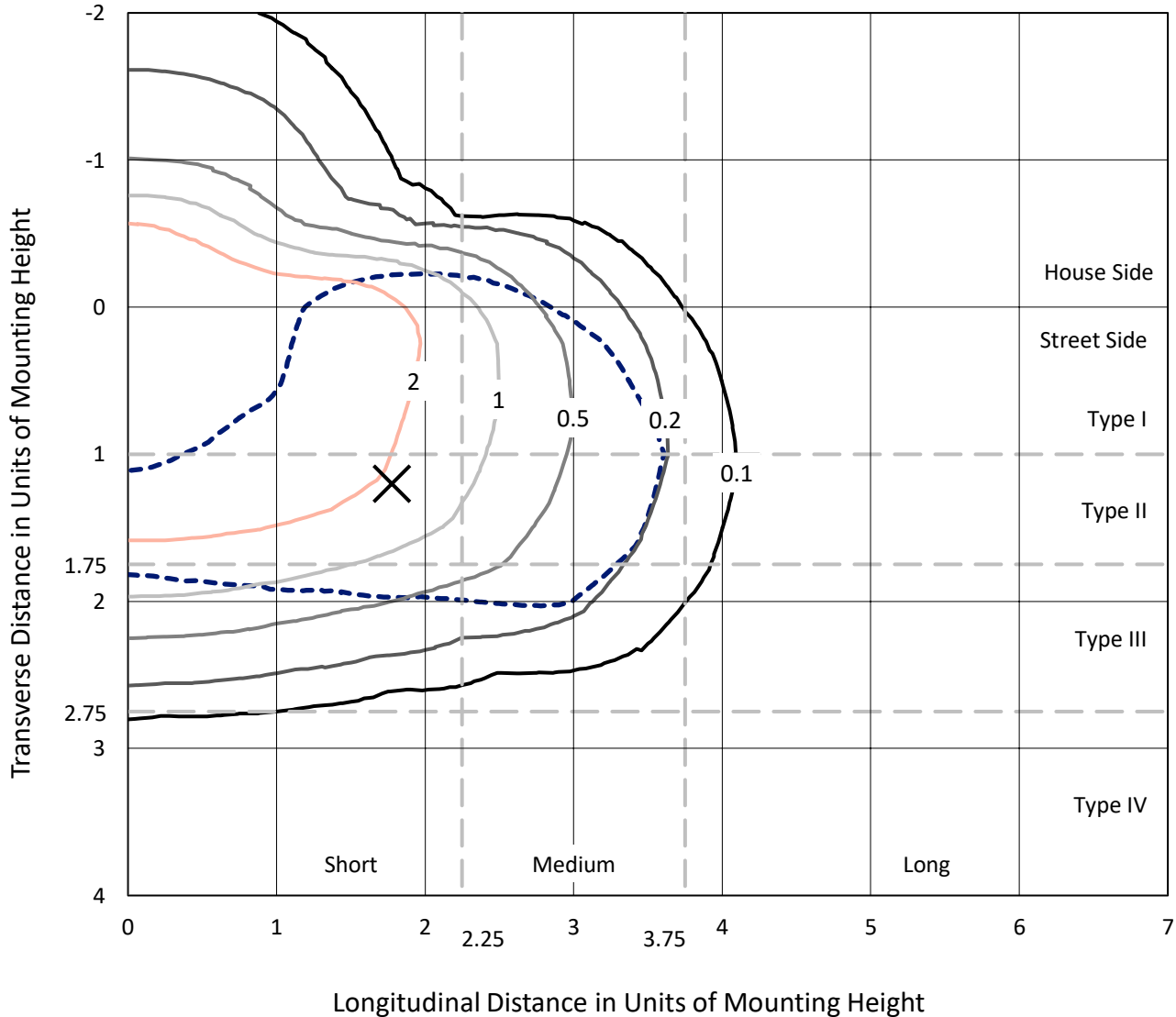
Lumens per Lamp: N/A
Luminaire Lumens: 14278.3 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 108.2
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

REPORT NUMBER: P477334
 CATALOG NUMBER: IFLD-S-SA2C-735-U-T3

Iso-Footcandle Lines of Horizontal Illumination

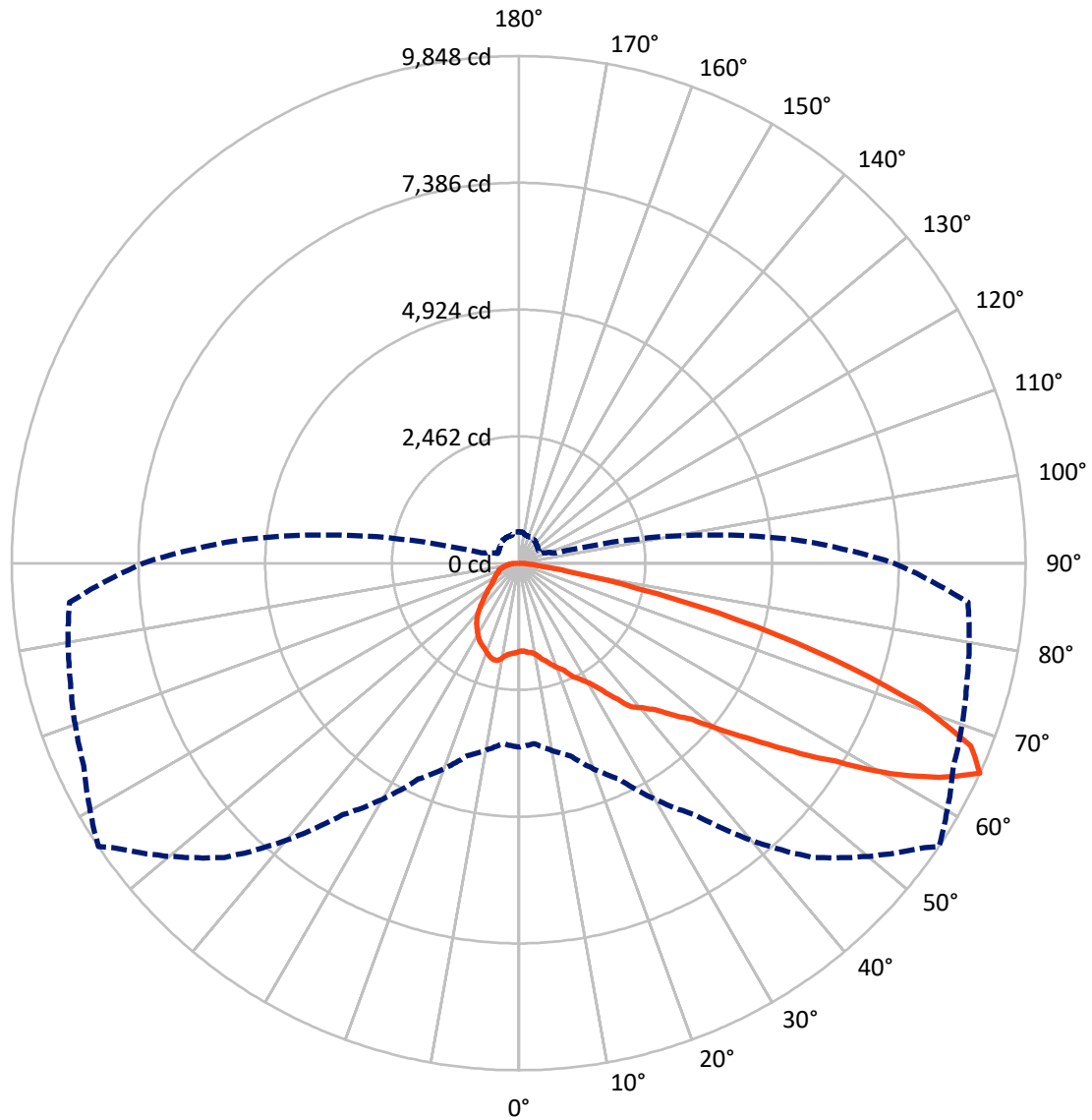
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

REPORT NUMBER: P477334
CATALOG NUMBER: IFLD-S-SA2C-735-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477334
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3202.2	0.0	3202.2
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	11076.1	0.0	11076.1
	% Fixture	77.6	0.0	77.6
Total	Lumens	14278.3	0.0	14278.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.8	1.2
10°-20°	551.5	3.9
20°-30°	981.9	6.9
30°-40°	1470.4	10.3
40°-50°	2178.6	15.3
50°-60°	3356.9	23.5
60°-70°	3800.4	26.6
70°-80°	1577.2	11.0
80°-90°	191.6	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°	14278.3	100.0
0°-180°	14278.3	100.0

Coefficient of Utilization



REPORT NUMBER: P477334

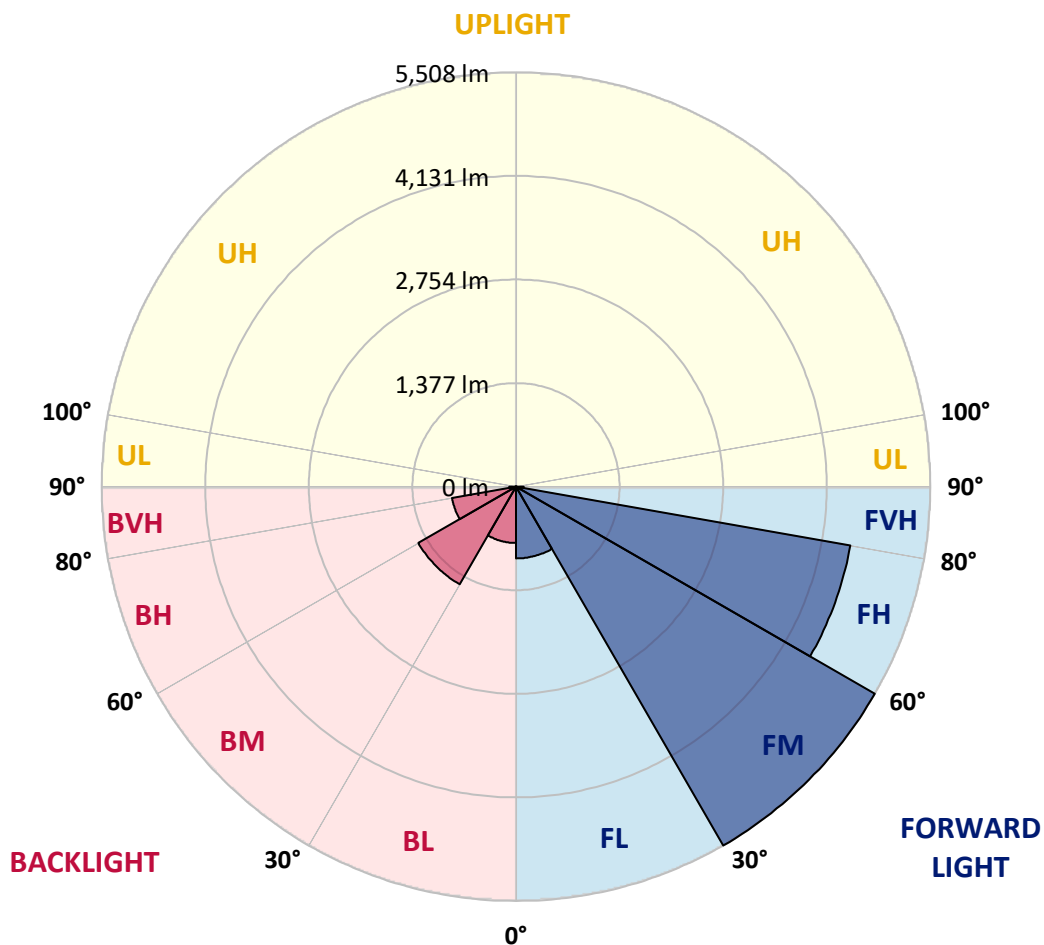
CATALOG NUMBER: IFLD-S-SA2C-735-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	954.2	6.7			
FM (30°-60°)	5507.9	38.6			
FH (60°-80°)	4512.9	31.6			G2/5000
FVH (80°-90°)	101.1	0.7			G2/225
BL (0°-30°)	749.0	5.2	B2/1000		
BM (30°-60°)	1497.9	10.5	B2/2500		
BH (60°-80°)	864.7	6.1	B2/1000		G2/1000
BVH (80°-90°)	90.5	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





REPORT NUMBER: P477334
 CATALOG NUMBER: IFLD-S-SA2C-735-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	1713.8	1713.8	1713.8	1713.8	1713.8	1713.8	1713.8	1713.8	1713.8	1713.8
2.5°	1669.0	1677.9	1672.0	1689.9	1704.8	1704.8	1716.8	1707.8	1719.8	1736.2
5°	1724.3	1688.4	1707.8	1716.8	1712.3	1719.8	1707.8	1737.7	1718.3	1749.7
7.5°	1737.7	1751.2	1767.6	1752.7	1766.1	1758.6	1760.1	1755.6	1745.2	1770.6
10°	1836.3	1816.9	1854.3	1831.8	1828.9	1825.9	1819.9	1797.5	1822.9	1824.4
12.5°	1949.9	1932.0	1930.5	1912.5	1936.4	1893.1	1902.1	1890.1	1894.6	1900.6
15°	2032.1	2024.6	2059.0	2038.0	2006.7	1987.2	2008.2	1975.3	1991.7	1988.7
17.5°	2194.9	2193.4	2168.0	2133.7	2115.7	2087.3	2082.9	2069.4	2081.4	2075.4
20°	2308.5	2324.9	2329.4	2289.1	2220.3	2188.9	2181.5	2171.0	2184.5	2180.0
22.5°	2481.8	2456.4	2475.8	2405.6	2380.2	2305.5	2278.6	2263.7	2327.9	2311.5
25°	2592.4	2619.3	2599.8	2575.9	2519.2	2426.5	2407.1	2440.0	2465.4	2447.4
27.5°	2841.9	2815.0	2797.1	2725.4	2688.0	2590.9	2568.5	2556.5	2562.5	2572.9
30°	3031.7	3046.6	3006.3	2955.5	2861.3	2762.7	2710.4	2700.0	2679.0	2661.1
32.5°	3302.1	3279.7	3255.8	3222.9	3142.2	3012.2	2961.4	2922.6	2859.8	2776.2
35°	3432.1	3496.3	3478.4	3390.3	3329.0	3279.7	3264.7	3205.0	3152.7	3021.2
37.5°	3648.7	3675.6	3650.2	3621.9	3593.5	3541.2	3523.2	3539.7	3436.6	3219.9
40°	3789.2	3846.0	3898.3	3819.1	3813.1	3823.6	3713.0	3693.6	3481.4	3367.8
42.5°	4076.1	4100.0	4110.4	4107.5	4141.8	4141.8	3931.1	3889.3	3738.4	3645.8
45°	4455.6	4475.0	4512.4	4539.3	4500.4	4519.8	4219.5	4203.1	4068.6	4050.7
47.5°	4784.3	4830.6	4914.3	4993.5	5044.3	4978.5	4649.8	4533.3	4498.9	4606.5
50°	5071.2	5015.9	5211.6	5292.3	5515.0	5624.0	5125.0	5078.7	5023.4	5229.6
52.5°	5099.6	5174.3	5450.7	5612.1	6070.8	6272.5	5707.7	5688.3	5621.0	5858.6
55°	5302.8	5293.8	5571.7	5921.4	6466.7	6805.9	6466.7	6454.8	6308.4	6534.0
57.5°	5268.4	5359.6	5579.2	6067.8	6823.8	7378.2	7346.8	7264.6	7059.9	7243.7
60°	5151.9	5175.8	5443.2	6063.3	7031.5	7965.4	8297.1	8313.5	7895.2	8041.6
62.5°	4491.5	4546.7	4885.9	5586.7	6883.6	8370.3	9225.0	9166.7	8832.0	8664.6
65°	3572.5	3517.3	3869.9	4627.4	5963.2	8083.4	9631.4	9848.0	9322.1	9015.8
67.5°	2190.4	2177.0	2516.2	3184.1	4461.6	6879.1	9307.1	9476.0	9186.1	8941.1
70°	1128.1	1093.7	1305.9	1776.6	2804.5	5047.3	8099.9	8265.7	8542.1	8019.2
72.5°	525.9	518.5	632.0	874.1	1428.4	2967.4	6272.5	6392.0	6974.8	6761.1
75°	309.3	313.8	378.0	457.2	696.3	1398.5	4162.7	4394.3	5026.4	4872.5
77.5°	231.6	231.6	268.9	318.3	406.4	540.9	2054.5	2360.8	2939.0	2643.2
80°	170.3	173.3	206.2	239.1	282.4	279.4	815.8	956.3	1347.7	1152.0
82.5°	133.0	137.5	159.9	177.8	198.7	168.8	334.7	360.1	554.3	440.8
85°	92.6	95.6	125.5	121.0	121.0	94.1	139.0	146.4	219.6	209.2
87.5°	22.4	25.4	61.3	67.2	50.8	28.4	43.3	49.3	79.2	91.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477334
 CATALOG NUMBER: IFLD-S-SA2C-735-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1713.8	0°	1713.8	1713.8	1713.8	1713.8	1713.8	1713.8	1713.8	1713.8	1713.8	1713.8
1743.7	2.5°	1721.3	1727.3	1752.7	1739.2	1746.7	1715.3	1740.7	1719.8	1737.7	1728.7
1757.1	5°	1769.1	1755.6	1770.6	1760.1	1760.1	1772.1	1790.0	1776.6	1803.5	1791.5
1767.6	7.5°	1788.5	1790.0	1799.0	1800.5	1793.0	1830.3	1831.8	1827.4	1852.8	1846.8
1839.3	10°	1836.3	1837.8	1854.3	1863.2	1855.7	1869.2	1854.3	1842.3	1840.8	1834.8
1896.1	12.5°	1912.5	1927.5	1924.5	1932.0	1933.4	1876.7	1842.3	1784.0	1776.6	1784.0
1979.8	15°	1982.8	1976.8	1979.8	1994.7	1932.0	1840.8	1779.5	1730.2	1733.2	1734.7
2088.8	17.5°	2066.4	2070.9	2075.4	2006.7	1891.6	1784.0	1730.2	1730.2	1715.3	1721.3
2165.0	20°	2162.1	2144.1	2105.3	2008.2	1821.4	1718.3	1701.9	1701.9	1683.9	1672.0
2247.2	22.5°	2236.8	2200.9	2142.6	1961.8	1758.6	1692.9	1652.5	1624.2	1603.2	1579.3
2338.4	25°	2284.6	2265.2	2151.6	1914.0	1712.3	1625.6	1565.9	1522.6	1495.7	1464.3
2410.1	27.5°	2357.8	2320.4	2177.0	1858.7	1661.5	1558.4	1465.8	1398.5	1347.7	1314.9
2519.2	30°	2456.4	2402.6	2159.1	1779.5	1583.8	1441.9	1332.8	1246.1	1187.9	1161.0
2622.3	32.5°	2537.1	2466.9	2144.1	1707.8	1497.2	1323.8	1178.9	1090.7	1057.9	1023.5
2795.6	35°	2691.0	2552.0	2133.7	1667.5	1419.5	1205.8	1053.4	977.2	935.3	884.5
2898.7	37.5°	2809.0	2700.0	2108.3	1583.8	1319.3	1090.7	957.8	889.0	826.3	772.5
3137.7	40°	2994.3	2906.1	2109.8	1465.8	1201.3	992.1	883.1	811.3	732.1	685.8
3491.9	42.5°	3342.4	3109.4	2118.7	1371.6	1068.3	911.4	815.8	730.6	651.5	612.6
3895.3	45°	3769.8	3388.8	2063.4	1286.5	932.4	835.2	735.1	650.0	599.2	570.8
4443.6	47.5°	4261.4	3662.2	1988.7	1126.6	818.8	754.6	660.4	611.1	573.8	557.3
5150.4	50°	4811.2	4053.7	1967.8	980.2	730.6	685.8	624.6	587.2	561.8	542.4
5946.8	52.5°	5519.4	4509.4	1926.0	829.3	654.4	630.5	611.1	585.7	563.3	546.9
6689.4	55°	6196.3	5014.4	1881.2	705.2	600.7	603.6	614.1	591.7	572.3	546.9
7521.6	57.5°	6958.3	5529.9	1715.3	614.1	560.3	590.2	611.1	585.7	566.3	546.9
8373.3	60°	7429.0	5819.8	1391.1	534.9	524.5	564.8	593.2	566.3	545.4	552.8
8764.8	62.5°	7620.2	5667.4	1048.9	485.6	499.1	530.4	564.8	554.3	539.4	567.8
8760.3	65°	7294.5	5316.2	750.1	443.8	464.7	496.1	539.4	551.3	555.8	611.1
8046.1	67.5°	6490.6	4628.9	551.3	409.4	428.8	475.1	557.3	576.7	573.8	642.5
6752.1	70°	5193.7	3620.4	430.3	381.0	415.4	491.6	582.7	582.7	561.8	642.5
5150.4	72.5°	3778.7	2552.0	370.6	348.1	381.0	451.2	579.7	578.2	551.3	587.2
3279.7	75°	2287.6	1485.2	327.2	315.3	327.2	387.0	554.3	545.4	508.0	505.0
1577.8	77.5°	1140.0	747.1	267.5	279.4	285.4	324.2	487.1	500.5	449.7	437.8
623.1	80°	481.1	325.7	222.6	240.6	240.6	273.4	404.9	413.9	373.5	351.1
246.5	82.5°	219.6	186.8	189.8	209.2	195.7	212.2	321.2	331.7	303.3	266.0
104.6	85°	92.6	106.1	144.9	164.4	144.9	137.5	221.1	233.1	197.2	164.4
44.8	87.5°	41.8	58.3	91.1	119.5	73.2	64.2	118.0	122.5	98.6	73.2
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>
1713.8
1712.3
1775.1
1837.8
1834.8
1787.0
1755.6
1722.8
1654.0
1565.9
1470.3
1329.8
1175.9
1022.0
880.1
774.0
690.3
615.6
576.7
554.3
545.4
545.4
545.4
545.4
546.9
560.3
611.1
647.0
629.0
566.3
499.1
430.3
343.7
260.0
165.9
68.7
0.0

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