

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: P477727

Luminaire Tested: **IFLD-S-SA3A-735-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477727
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-735-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

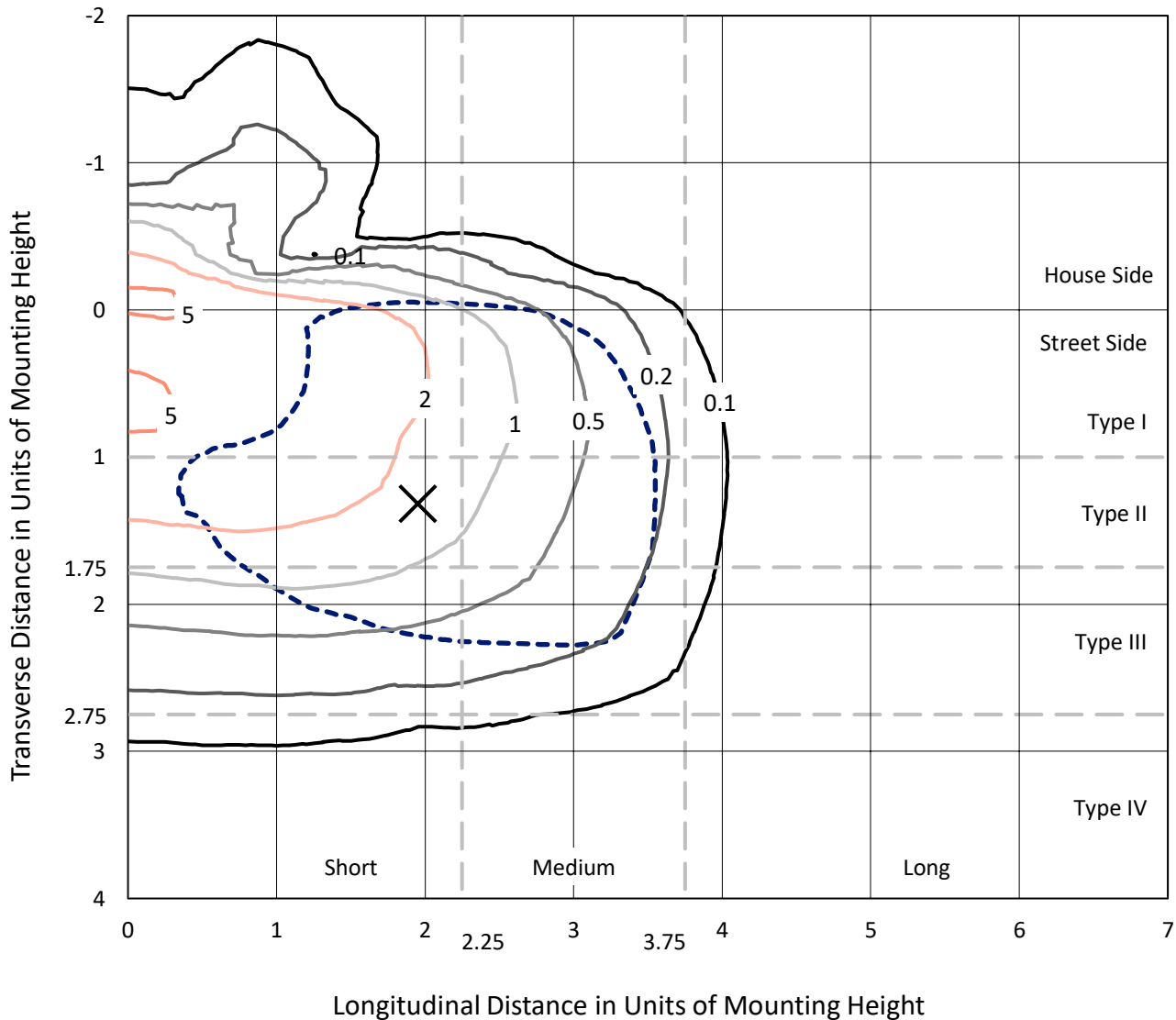
Lumens per Lamp: N/A
Luminaire Lumens: 13329.8 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 94.8
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

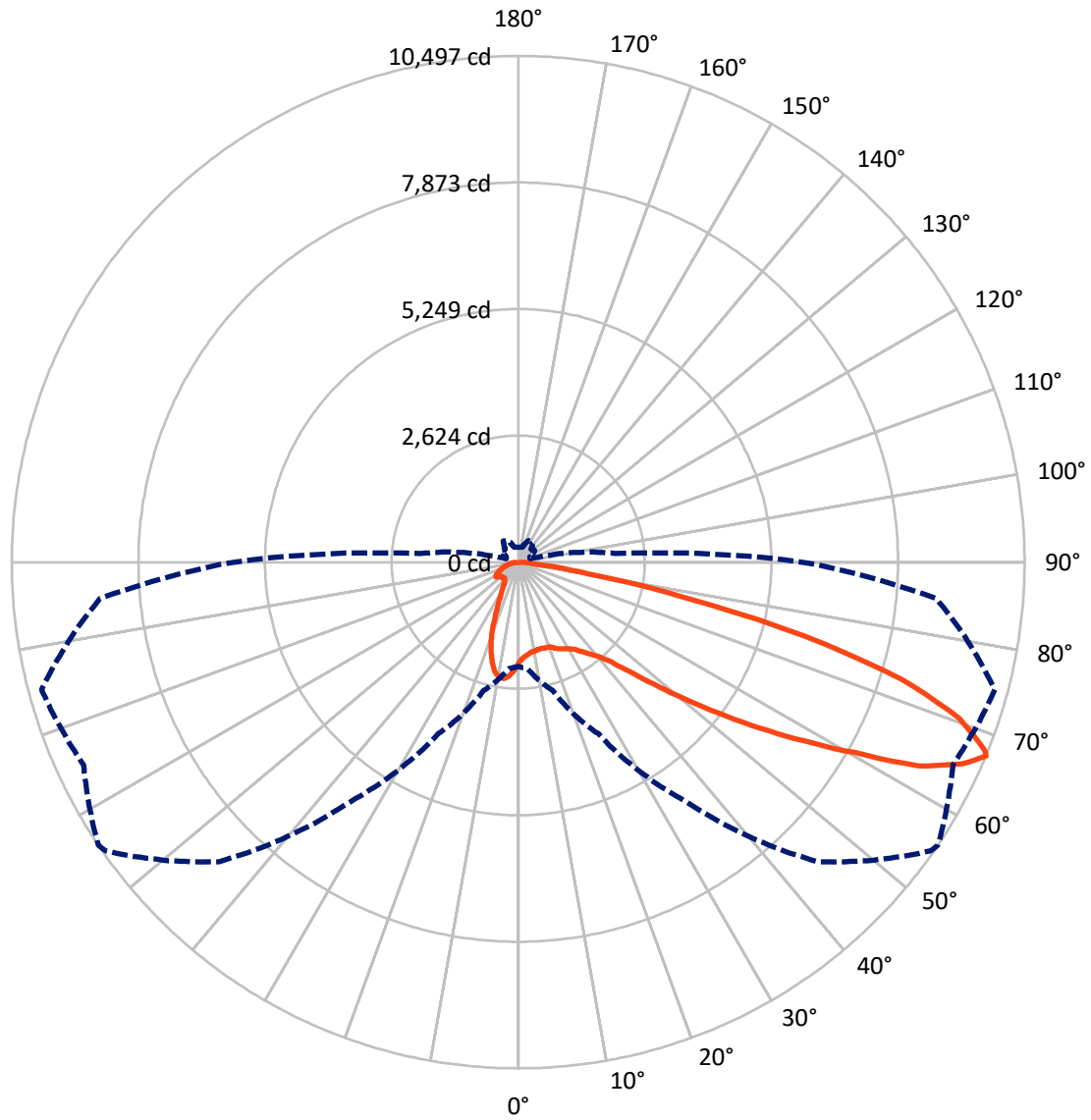
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2110.2	0.0	2110.2
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	11219.6	0.0	11219.6
	% Fixture	84.2	0.0	84.2
Total	Lumens	13329.8	0.0	13329.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.8	1.5
10°-20°	545.1	4.1
20°-30°	854.9	6.4
30°-40°	1220.4	9.2
40°-50°	1841.9	13.8
50°-60°	2932.0	22.0
60°-70°	3748.3	28.1
70°-80°	1827.5	13.7
80°-90°	159.9	1.2
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°	13329.8	100.0
0°-180°	13329.8	100.0

Coefficient of Utilization

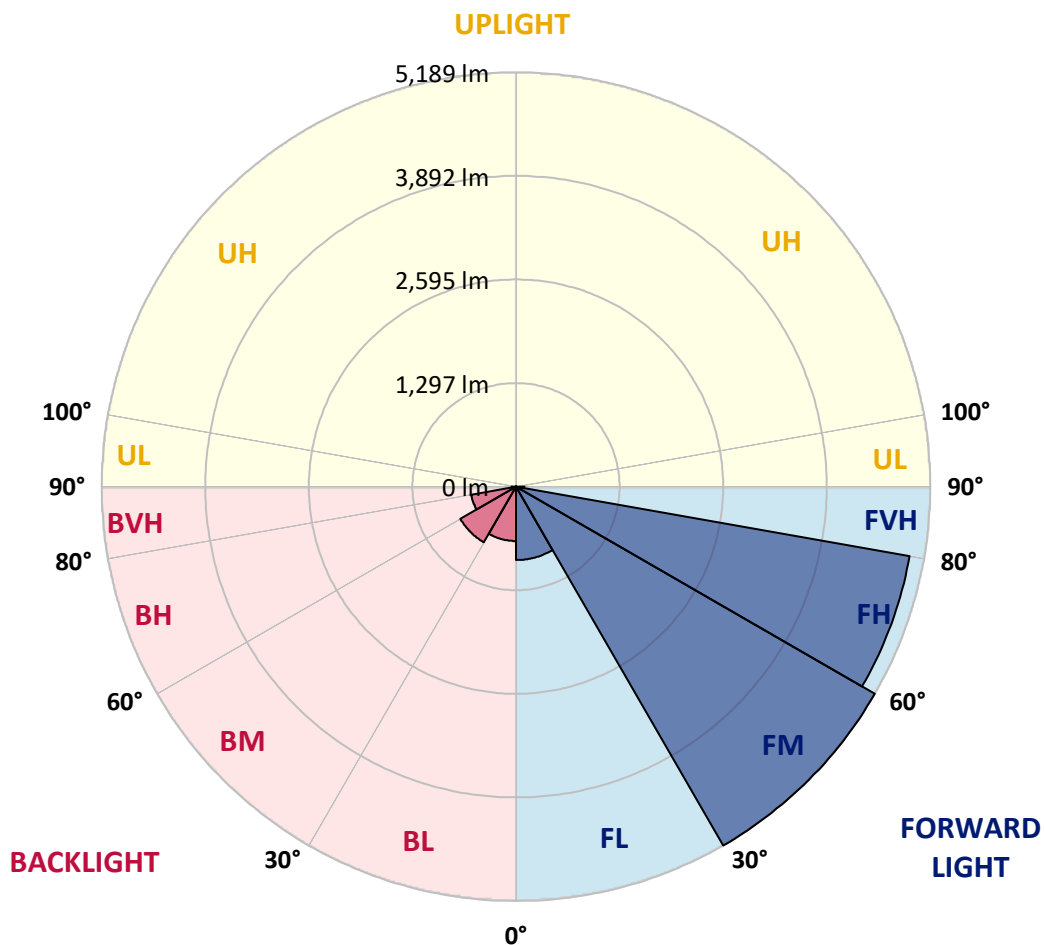


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	918.6	6.9			
FM (30°-60°)	5189.2	38.9			
FH (60°-80°)	5005.6	37.6			G3/7500
FVH (80°-90°)	106.2	0.8			G2/225
BL (0°-30°)	681.2	5.1	B2/1000		
BM (30°-60°)	805.1	6.0	B1/1000		
BH (60°-80°)	570.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	53.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2074.1	2074.1	2074.1	2074.1	2074.1	2074.1	2074.1	2074.1	2074.1	2074.1
2.5°	1905.3	1897.5	1906.8	1897.5	1939.7	1964.7	1972.5	1983.4	2022.5	2060.0
5°	1825.6	1791.2	1828.7	1841.2	1844.3	1886.5	1930.3	1938.1	1958.4	2019.4
7.5°	1692.7	1731.8	1717.7	1755.2	1794.3	1836.5	1908.4	1888.1	1963.1	2020.9
10°	1664.6	1667.7	1683.3	1697.4	1731.8	1786.5	1886.5	1874.0	1950.6	2074.1
12.5°	1692.7	1692.7	1688.0	1677.1	1716.2	1769.3	1849.0	1855.3	1975.6	2089.7
15°	1791.2	1809.9	1759.9	1767.7	1752.1	1769.3	1839.6	1853.7	1985.0	2102.2
17.5°	2031.9	2025.6	1966.2	1883.4	1814.6	1803.7	1852.1	1867.8	1975.6	2138.2
20°	2266.3	2253.8	2150.7	2064.7	1928.7	1864.6	1872.5	1874.0	1991.2	2161.6
22.5°	2527.3	2560.2	2447.6	2272.6	2103.8	1944.4	1913.1	1938.1	2027.2	2174.1
25°	2936.8	2866.5	2769.6	2539.9	2267.9	2067.8	1980.3	1992.8	2061.6	2205.4
27.5°	3232.3	3204.1	3052.5	2866.5	2497.7	2164.7	2016.3	2039.7	2124.1	2203.8
30°	3516.7	3516.7	3424.5	3146.3	2739.9	2327.3	2092.8	2081.9	2094.4	2200.7
32.5°	3849.6	3804.3	3671.5	3487.0	3044.7	2475.8	2153.8	2156.9	2156.9	2258.5
35°	4024.7	4098.1	4009.1	3709.0	3277.6	2722.7	2300.7	2277.3	2260.1	2322.6
37.5°	4281.0	4324.8	4231.0	4054.4	3566.7	2922.8	2430.4	2411.7	2311.7	2372.6
40°	4435.8	4427.9	4424.8	4343.5	3949.7	3158.8	2621.1	2572.7	2438.3	2549.2
42.5°	4523.3	4507.7	4699.9	4649.9	4310.7	3505.8	2860.3	2833.7	2685.2	2863.4
45°	4621.7	4737.4	4895.3	5035.9	4731.2	3993.4	3265.1	3227.6	3094.7	3321.3
47.5°	4707.7	4849.9	5051.6	5201.6	5111.0	4523.3	3765.2	3774.6	3687.1	3920.0
50°	4851.5	4865.6	5139.1	5442.3	5512.6	5012.5	4437.3	4421.7	4382.6	4709.3
52.5°	4807.7	4849.9	5195.4	5583.0	5698.6	5529.8	5159.4	5206.3	5154.7	5565.8
55°	4095.0	4221.6	5161.0	5731.5	6139.4	6114.4	6087.8	6056.6	6053.4	6528.6
57.5°	3771.5	3874.6	4546.7	5895.6	6611.4	6795.9	6967.8	7002.2	7000.6	7574.2
60°	3558.9	3665.2	4298.2	5806.5	7013.1	7688.3	8018.1	8022.8	8013.4	8691.8
62.5°	3143.2	3246.3	3868.4	5318.8	7124.1	8512.0	9246.6	9307.6	8877.8	9654.6
65°	2643.0	2727.4	3276.0	4573.3	6828.7	9035.6	10170.3	10098.4	9606.1	10204.7
67°	2161.6	2217.9	2752.4	3926.2	6056.6	8784.0	10437.6	10497.0	9942.2	10228.2
67.5°	2024.1	2075.6	2580.5	3705.8	5762.7	8593.3	10447.0	10437.6	9948.4	10232.9
70°	1405.1	1427.0	1758.4	2549.2	4245.1	7260.1	9684.3	9706.1	9531.1	9678.0
72.5°	931.5	964.4	1175.4	1606.7	2502.3	5282.9	8094.7	8329.1	8218.2	7935.3
75°	600.2	618.9	769.0	956.5	1231.6	3008.7	5980.0	6136.3	5881.5	4907.8
77.5°	336.0	356.4	464.2	581.4	600.2	1252.0	3358.9	3552.7	3010.3	2085.0
80°	209.4	236.0	350.1	345.4	286.0	459.5	1384.8	1483.3	1203.5	717.4
82.5°	157.9	178.2	270.4	242.3	161.0	204.8	518.9	556.4	440.8	276.6
85°	107.8	136.0	195.4	150.0	84.4	98.5	206.3	221.9	201.6	134.4
87.5°	39.1	57.8	101.6	75.0	37.5	29.7	67.2	75.0	71.9	61.0
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°
2074.1	0°	2074.1	2074.1	2074.1	2074.1	2074.1	2074.1	2074.1	2074.1	2074.1	2074.1
2092.8	2.5°	2122.5	2144.4	2155.4	2219.4	2246.0	2241.3	2247.6	2257.0	2266.3	2278.8
2119.4	5°	2139.7	2206.9	2242.9	2317.9	2367.9	2346.0	2374.2	2366.4	2355.4	2353.9
2167.9	7.5°	2196.0	2282.0	2389.8	2410.1	2432.0	2377.3	2330.4	2266.3	2250.7	2196.0
2208.5	10°	2296.0	2366.4	2497.7	2505.5	2408.6	2267.9	2163.2	2030.3	2028.8	1949.0
2271.0	12.5°	2391.4	2471.1	2577.4	2532.0	2300.7	2108.5	1938.1	1792.7	1731.8	1691.2
2308.5	15°	2450.8	2582.1	2638.3	2442.9	2111.6	1852.1	1631.8	1475.5	1412.9	1383.2
2355.4	17.5°	2505.5	2688.3	2663.3	2286.6	1878.7	1588.0	1325.4	1189.4	1172.2	1150.4
2430.4	20°	2580.5	2727.4	2574.2	2083.5	1614.6	1247.3	1080.0	1014.4	1030.0	1039.4
2438.3	22.5°	2650.8	2747.7	2461.7	1861.5	1275.4	987.8	905.0	919.0	942.5	973.7
2457.0	25°	2682.1	2780.6	2310.1	1555.2	970.6	831.5	812.8	836.2	875.3	876.8
2483.6	27.5°	2702.4	2757.1	2127.2	1256.6	767.4	726.8	754.9	772.1	776.8	795.6
2539.9	30°	2738.4	2708.7	1895.9	898.7	644.0	645.5	681.5	681.5	681.5	695.5
2596.1	32.5°	2800.9	2675.8	1625.5	656.5	554.9	604.9	595.5	592.4	586.1	568.9
2668.0	35°	2839.9	2586.7	1283.2	486.1	498.6	554.9	551.7	503.3	422.0	381.4
2850.9	37.5°	2921.2	2541.4	944.0	375.1	465.8	529.9	512.7	395.4	306.3	267.3
3077.5	40°	3096.3	2511.7	653.3	328.2	443.9	517.3	458.0	337.6	234.4	165.7
3427.6	42.5°	3310.4	2513.3	443.9	309.5	445.5	543.9	440.8	289.2	165.7	132.9
3895.0	45°	3598.0	2489.8	304.8	309.5	473.6	587.7	451.7	262.6	161.0	168.8
4481.1	47.5°	3907.5	2510.2	226.6	281.3	478.3	589.2	412.6	257.9	154.7	195.4
5118.8	50°	4268.5	2530.5	187.6	259.5	479.8	570.5	379.8	251.6	161.0	206.3
5850.3	52.5°	4640.5	2594.6	159.4	245.4	498.6	562.7	379.8	261.0	161.0	179.7
6781.8	55°	5195.4	2758.7	229.8	306.3	567.4	614.3	467.3	365.7	225.1	231.3
7674.3	57.5°	5808.1	2927.5	256.3	322.0	583.0	553.3	503.3	403.3	237.6	239.1
8368.2	60°	6211.3	2933.7	254.8	314.2	545.5	478.3	492.3	425.1	242.3	204.8
8798.0	62.5°	6372.3	2743.0	265.7	314.2	508.0	447.0	504.8	458.0	250.1	256.3
8920.0	65°	6189.4	2349.2	256.3	281.3	447.0	400.1	508.0	464.2	273.5	257.9
8701.1	67°	5903.4	2024.1	261.0	267.3	415.8	379.8	534.5	487.7	317.3	309.5
8587.0	67.5°	5822.1	1938.1	259.5	259.5	404.8	373.6	540.8	487.7	323.5	320.4
7578.9	70°	5131.3	1570.8	265.7	256.3	357.9	354.8	575.2	514.2	372.0	375.1
5567.4	72.5°	3905.9	1191.0	264.1	256.3	311.0	339.2	579.9	531.4	404.8	375.1
3118.2	75°	2219.4	712.7	232.9	223.5	245.4	295.4	542.4	506.4	393.9	336.0
1245.7	77.5°	917.5	367.3	214.1	201.6	203.2	240.7	451.7	472.0	375.1	286.0
415.8	80°	342.3	220.4	171.9	161.0	156.3	176.6	322.0	376.7	320.4	234.4
182.9	82.5°	178.2	137.5	117.2	117.2	106.3	112.5	173.5	250.1	242.3	161.0
73.5	85°	90.7	78.1	67.2	65.6	59.4	53.1	87.5	148.5	139.1	89.1
32.8	87.5°	48.5	43.8	28.1	26.6	21.9	14.1	15.6	29.7	48.5	39.1
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>
2074.1
2291.3
2367.9
2214.8
1945.9
1681.8
1377.0
1161.3
1028.4
956.5
892.5
812.8
711.2
559.5
400.1
265.7
161.0
129.7
171.9
217.3
239.1
184.4
243.8
231.3
211.0
259.5
253.2
304.8
314.2
347.0
332.9
300.1
270.4
214.1
126.6
73.5
28.1
0.0

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