

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: P477923

Luminaire Tested: **IFLD-S-SA3B-830-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477923
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-830-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

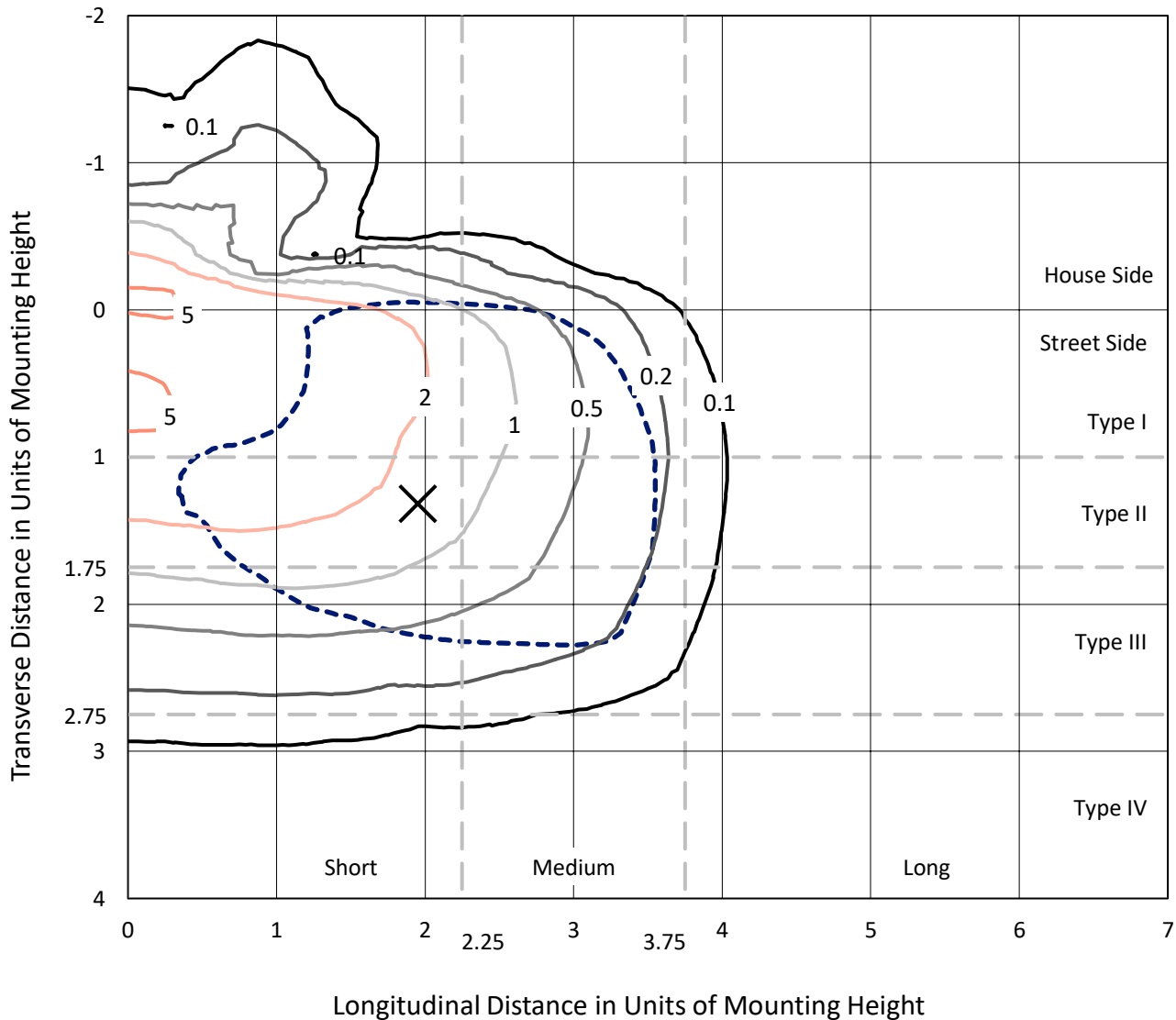
Lumens per Lamp: N/A
Luminaire Lumens: 13281.4 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 122.4
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

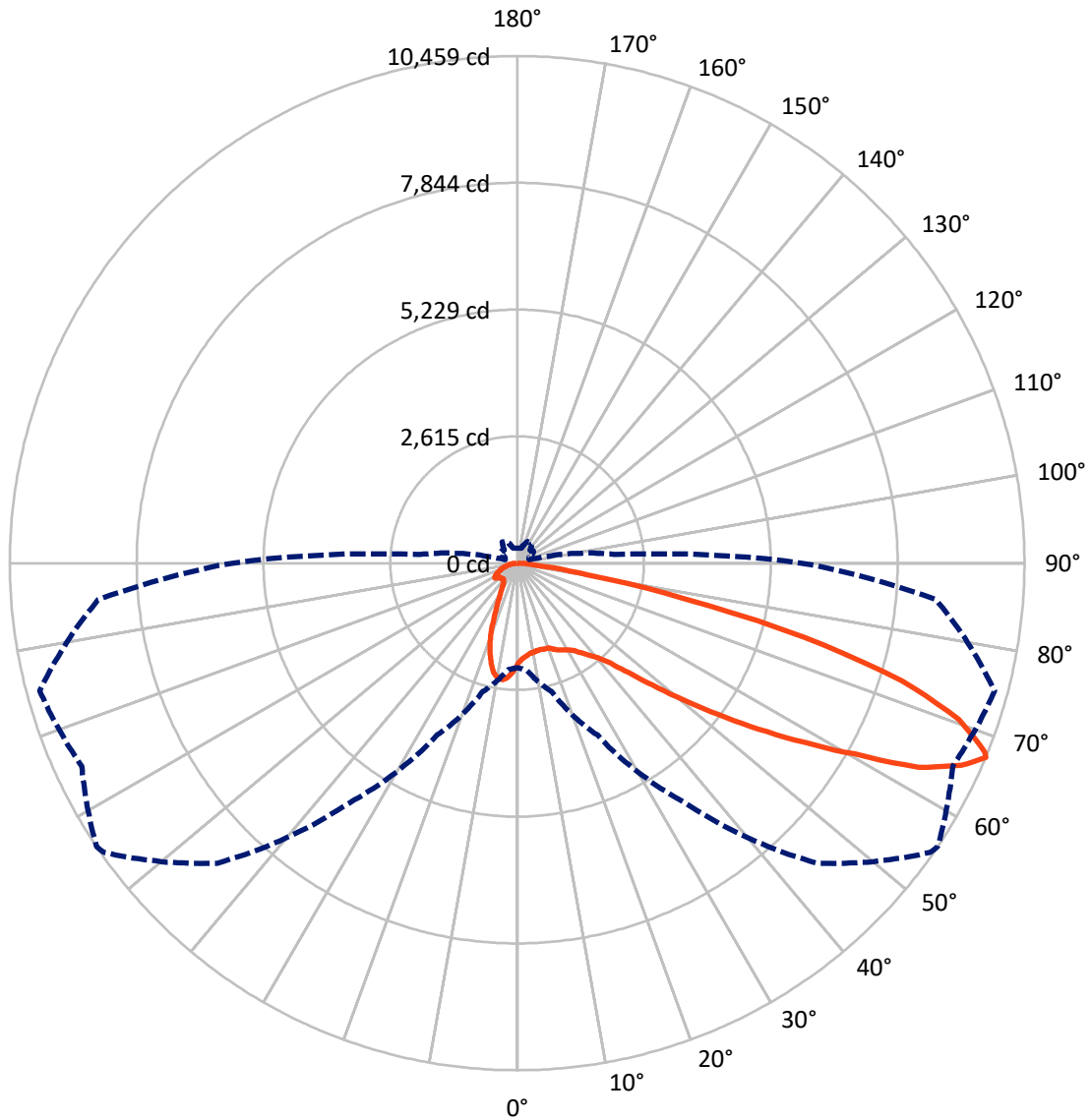
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 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	2102.6	0.0	2102.6
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	11178.9	0.0	11178.9
	% Fixture	84.2	0.0	84.2
Total	Lumens	13281.4	0.0	13281.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.1	1.5
10°-20°	543.1	4.1
20°-30°	851.8	6.4
30°-40°	1215.9	9.2
40°-50°	1835.2	13.8
50°-60°	2921.3	22.0
60°-70°	3734.7	28.1
70°-80°	1820.9	13.7
80°-90°	159.3	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°	13281.4	100.0
0°-180°	13281.4	100.0

Coefficient of Utilization

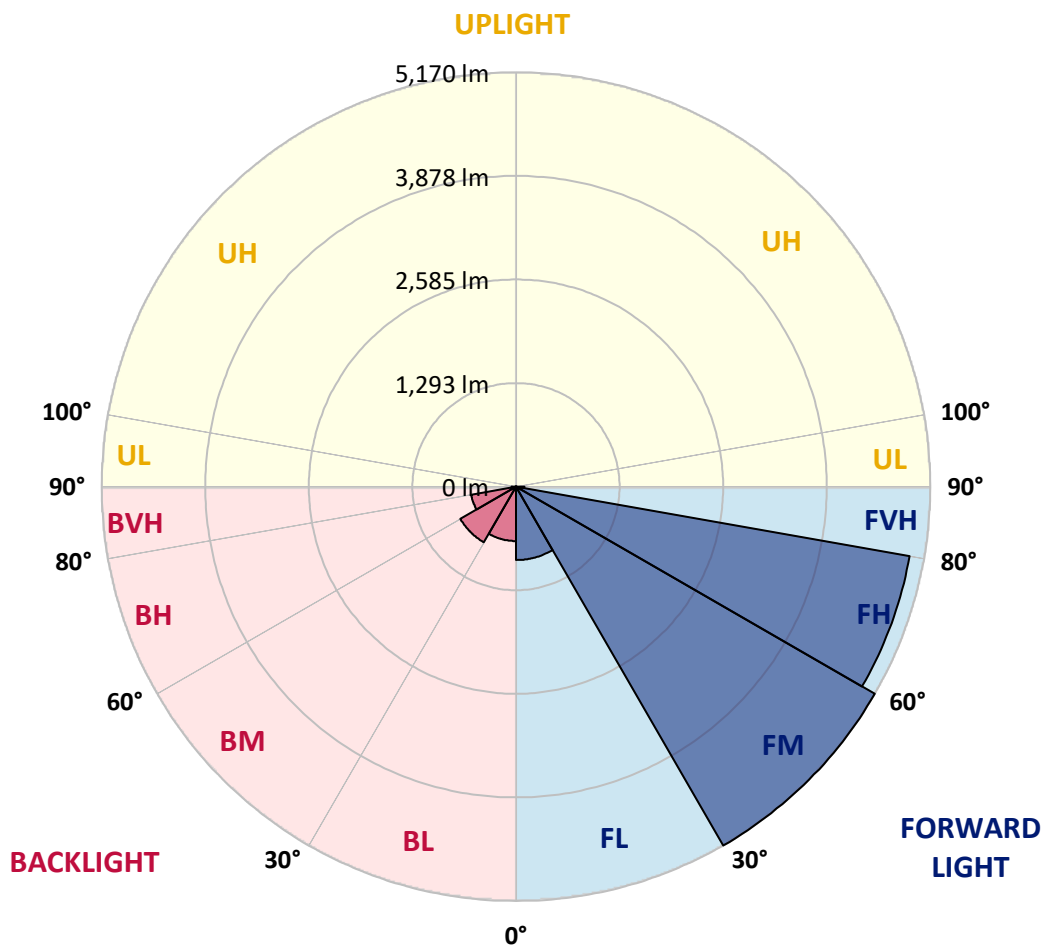


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	915.2	6.9			
FM (30°-60°)	5170.3	38.9			
FH (60°-80°)	4987.5	37.6			G2/5000
FVH (80°-90°)	105.8	0.8			G2/225
BL (0°-30°)	678.8	5.1	B2/1000		
BM (30°-60°)	802.2	6.0	B1/1000		
BH (60°-80°)	568.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	53.5	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-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2066.6	2066.6	2066.6	2066.6	2066.6	2066.6	2066.6	2066.6	2066.6	2066.6
2.5°	1898.4	1890.6	1899.9	1890.6	1932.6	1957.5	1965.3	1976.2	2015.2	2052.5
5°	1818.9	1784.7	1822.1	1834.5	1837.6	1879.7	1923.3	1931.1	1951.3	2012.1
7.5°	1686.6	1725.5	1711.5	1748.9	1787.8	1829.8	1901.5	1881.2	1956.0	2013.6
10°	1658.5	1661.7	1677.2	1691.2	1725.5	1780.0	1879.7	1867.2	1943.5	2066.6
12.5°	1686.6	1686.6	1681.9	1671.0	1709.9	1762.9	1842.3	1848.5	1968.4	2082.1
15°	1784.7	1803.4	1753.5	1761.3	1745.8	1762.9	1833.0	1847.0	1977.8	2094.6
17.5°	2024.5	2018.3	1959.1	1876.6	1808.0	1797.1	1845.4	1861.0	1968.4	2130.4
20°	2258.1	2245.6	2142.9	2057.2	1921.7	1857.9	1865.7	1867.2	1984.0	2153.8
22.5°	2518.2	2550.9	2438.8	2264.3	2096.1	1937.3	1906.2	1931.1	2019.8	2166.2
25°	2926.2	2856.1	2759.6	2530.6	2259.7	2060.3	1973.1	1985.6	2054.1	2197.4
27.5°	3220.5	3192.5	3041.4	2856.1	2488.6	2156.9	2008.9	2032.3	2116.4	2195.8
30°	3504.0	3504.0	3412.1	3134.9	2730.0	2318.8	2085.2	2074.3	2086.8	2192.7
32.5°	3835.7	3790.5	3658.1	3474.4	3033.7	2466.8	2146.0	2149.1	2149.1	2250.3
35°	4010.1	4083.3	3994.5	3695.5	3265.7	2712.8	2292.4	2269.0	2251.9	2314.2
37.5°	4265.5	4309.1	4215.7	4039.7	3553.8	2912.2	2421.6	2402.9	2303.3	2364.0
40°	4419.7	4411.9	4408.8	4327.8	3935.3	3147.3	2611.6	2563.3	2429.4	2540.0
42.5°	4506.9	4491.3	4682.8	4633.0	4295.1	3493.1	2849.9	2823.4	2675.5	2853.0
45°	4605.0	4720.2	4877.5	5017.7	4714.0	3978.9	3253.2	3215.9	3083.5	3309.3
47.5°	4690.6	4832.4	5033.2	5182.7	5092.4	4506.9	3751.6	3760.9	3673.7	3905.7
50°	4833.9	4847.9	5120.5	5422.6	5492.7	4994.3	4421.2	4405.6	4366.7	4692.2
52.5°	4790.3	4832.4	5176.5	5562.7	5678.0	5509.8	5140.7	5187.4	5136.0	5545.6
55°	4080.2	4206.3	5142.3	5710.7	6117.1	6092.2	6065.7	6034.6	6031.5	6504.9
57.5°	3757.8	3860.6	4530.2	5874.2	6587.4	6771.2	6942.5	6976.8	6975.2	7546.8
60°	3546.0	3651.9	4282.6	5785.4	6987.7	7660.4	7989.0	7993.7	7984.4	8660.2
62.5°	3131.8	3234.5	3854.4	5299.5	7098.2	8481.1	9213.1	9273.8	8845.6	9619.5
65°	2633.4	2717.5	3264.1	4556.7	6803.9	9002.8	10133.5	10061.8	9571.3	10167.7
67°	2153.8	2209.8	2742.4	3912.0	6034.6	8752.1	10399.8	10458.9	9906.1	10191.1
67.5°	2016.7	2068.1	2571.1	3692.4	5741.8	8562.1	10409.1	10399.8	9912.3	10195.7
70°	1400.0	1421.8	1752.0	2540.0	4229.7	7233.7	9649.1	9670.9	9496.5	9642.9
72.5°	928.2	960.9	1171.1	1600.9	2493.3	5263.7	8065.3	8298.9	8188.4	7906.5
75°	598.0	616.7	766.2	953.1	1227.2	2997.8	5958.3	6114.0	5860.2	4890.0
77.5°	334.8	355.1	462.5	579.3	598.0	1247.4	3346.7	3539.8	2999.4	2077.5
80°	208.7	235.2	348.8	344.2	285.0	457.9	1379.8	1477.9	1199.1	714.8
82.5°	157.3	177.5	269.4	241.4	160.4	204.0	517.0	554.4	439.2	275.6
85°	107.5	135.5	194.7	149.5	84.1	98.1	205.6	221.1	200.9	133.9
87.5°	38.9	57.6	101.2	74.8	37.4	29.6	67.0	74.8	71.6	60.7
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°
2066.6	0°	2066.6	2066.6	2066.6	2066.6	2066.6	2066.6	2066.6	2066.6	2066.6	2066.6
2085.2	2.5°	2114.8	2136.6	2147.5	2211.4	2237.9	2233.2	2239.4	2248.8	2258.1	2270.6
2111.7	5°	2132.0	2198.9	2234.7	2309.5	2359.3	2337.5	2365.6	2357.8	2346.9	2345.3
2160.0	7.5°	2188.0	2273.7	2381.1	2401.4	2423.2	2368.7	2322.0	2258.1	2242.5	2188.0
2200.5	10°	2287.7	2357.8	2488.6	2496.4	2399.8	2259.7	2155.3	2023.0	2021.4	1942.0
2262.8	12.5°	2382.7	2462.1	2568.0	2522.9	2292.4	2100.8	1931.1	1786.2	1725.5	1685.0
2300.2	15°	2441.9	2572.7	2628.7	2434.1	2103.9	1845.4	1625.8	1470.1	1407.8	1378.2
2346.9	17.5°	2496.4	2678.6	2653.7	2278.4	1871.9	1582.2	1320.6	1185.1	1168.0	1146.2
2421.6	20°	2571.1	2717.5	2564.9	2075.9	1608.7	1242.7	1076.1	1010.7	1026.3	1035.6
2429.4	22.5°	2641.2	2737.8	2452.8	1854.8	1270.8	984.2	901.7	915.7	939.1	970.2
2448.1	25°	2672.4	2770.5	2301.7	1549.5	967.1	828.5	809.8	833.2	872.1	873.7
2474.6	27.5°	2692.6	2747.1	2119.5	1252.1	764.6	724.2	752.2	769.3	774.0	792.7
2530.6	30°	2728.4	2698.8	1889.0	895.5	641.6	643.2	679.0	679.0	679.0	693.0
2586.7	32.5°	2790.7	2666.1	1619.6	654.1	552.8	602.7	593.3	590.2	584.0	566.9
2658.3	35°	2829.6	2577.4	1278.6	484.3	496.8	552.8	549.7	501.5	420.5	380.0
2840.5	37.5°	2910.6	2532.2	940.6	373.8	464.1	527.9	510.8	394.0	305.2	266.3
3066.4	40°	3085.0	2502.6	651.0	327.0	442.3	515.5	456.3	336.4	233.6	165.1
3415.2	42.5°	3298.4	2504.2	442.3	308.3	443.8	541.9	439.2	288.1	165.1	132.4
3880.8	45°	3584.9	2480.8	303.7	308.3	471.9	585.6	450.1	261.6	160.4	168.2
4464.8	47.5°	3893.3	2501.0	225.8	280.3	476.5	587.1	411.1	257.0	154.2	194.7
5100.2	50°	4253.0	2521.3	186.9	258.5	478.1	568.4	378.4	250.7	160.4	205.6
5829.0	52.5°	4623.7	2585.1	158.8	244.5	496.8	560.6	378.4	260.1	160.4	179.1
6757.2	55°	5176.5	2748.7	228.9	305.2	565.3	612.0	465.6	364.4	224.3	230.5
7646.4	57.5°	5787.0	2916.9	255.4	320.8	580.9	551.3	501.5	401.8	236.7	238.3
8337.9	60°	6188.8	2923.1	253.8	313.0	543.5	476.5	490.6	423.6	241.4	204.0
8766.1	62.5°	6349.2	2733.1	264.7	313.0	506.1	445.4	503.0	456.3	249.2	255.4
8887.6	65°	6167.0	2340.6	255.4	280.3	445.4	398.7	506.1	462.5	272.5	257.0
8669.6	67°	5882.0	2016.7	260.1	266.3	414.2	378.4	532.6	485.9	316.1	308.3
8555.9	67.5°	5801.0	1931.1	258.5	258.5	403.3	372.2	538.8	485.9	322.4	319.2
7551.4	70°	5112.7	1565.1	264.7	255.4	356.6	353.5	573.1	512.4	370.6	373.8
5547.2	72.5°	3891.7	1186.7	263.2	255.4	309.9	337.9	577.8	529.5	403.3	373.8
3106.8	75°	2211.4	710.1	232.0	222.7	244.5	294.3	540.4	504.6	392.4	334.8
1241.2	77.5°	914.1	366.0	213.4	200.9	202.5	239.8	450.1	470.3	373.8	285.0
414.2	80°	341.1	219.6	171.3	160.4	155.7	176.0	320.8	375.3	319.2	233.6
182.2	82.5°	177.5	137.0	116.8	116.8	105.9	112.1	172.9	249.2	241.4	160.4
73.2	85°	90.3	77.9	67.0	65.4	59.2	52.9	87.2	147.9	138.6	88.8
32.7	87.5°	48.3	43.6	28.0	26.5	21.8	14.0	15.6	29.6	48.3	38.9
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>
2066.6
2283.0
2359.3
2206.7
1938.9
1675.7
1372.0
1157.1
1024.7
953.1
889.2
809.8
708.6
557.5
398.7
264.7
160.4
129.3
171.3
216.5
238.3
183.8
242.9
230.5
210.2
258.5
252.3
303.7
313.0
345.7
331.7
299.0
269.4
213.4
126.1
73.2
28.0
0.0

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