

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: P477689

Luminaire Tested: **IFLD-S-SA3B-730-U-T3R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477689
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-730-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

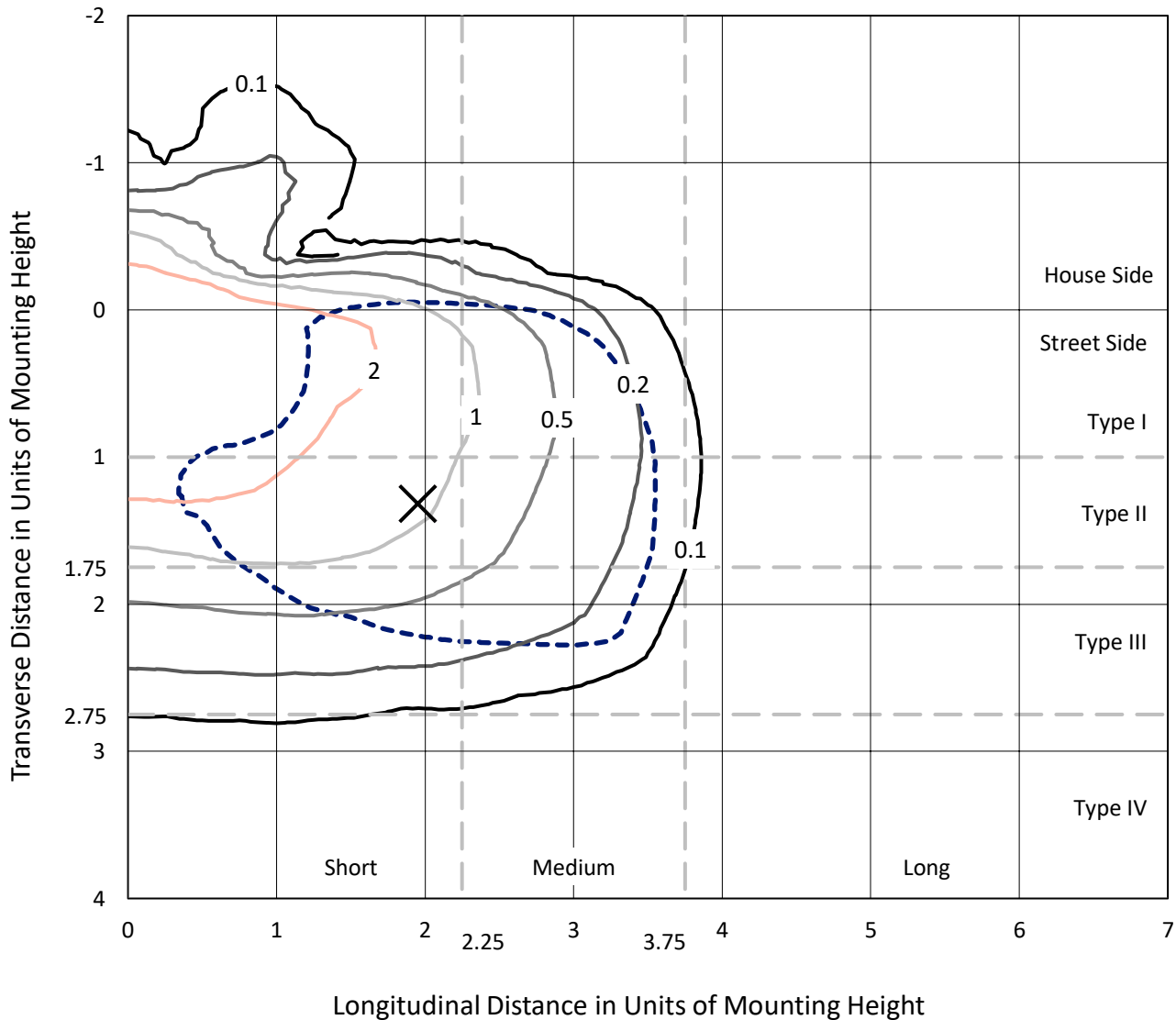
Lumens per Lamp: N/A
Luminaire Lumens: 15220.3 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 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

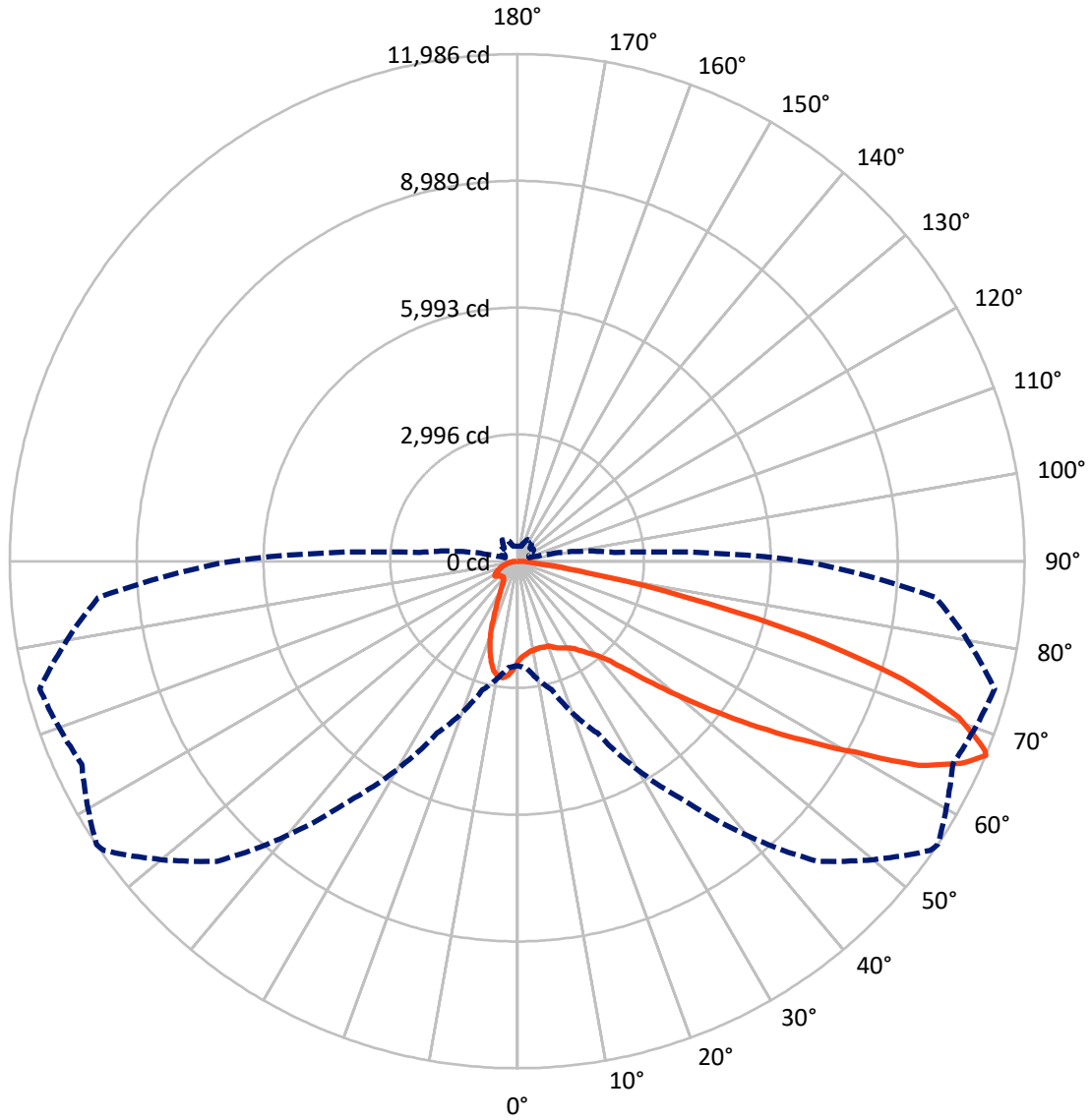
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	2409.5	0.0	2409.5
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	12810.8	0.0	12810.8
	% Fixture	84.2	0.0	84.2
Total	Lumens	15220.3	0.0	15220.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.2	1.5
10°-20°	622.4	4.1
20°-30°	976.1	6.4
30°-40°	1393.5	9.2
40°-50°	2103.1	13.8
50°-60°	3347.8	22.0
60°-70°	4279.9	28.1
70°-80°	2086.7	13.7
80°-90°	182.5	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°	15220.3	100.0
0°-180°	15220.3	100.0

Coefficient of Utilization

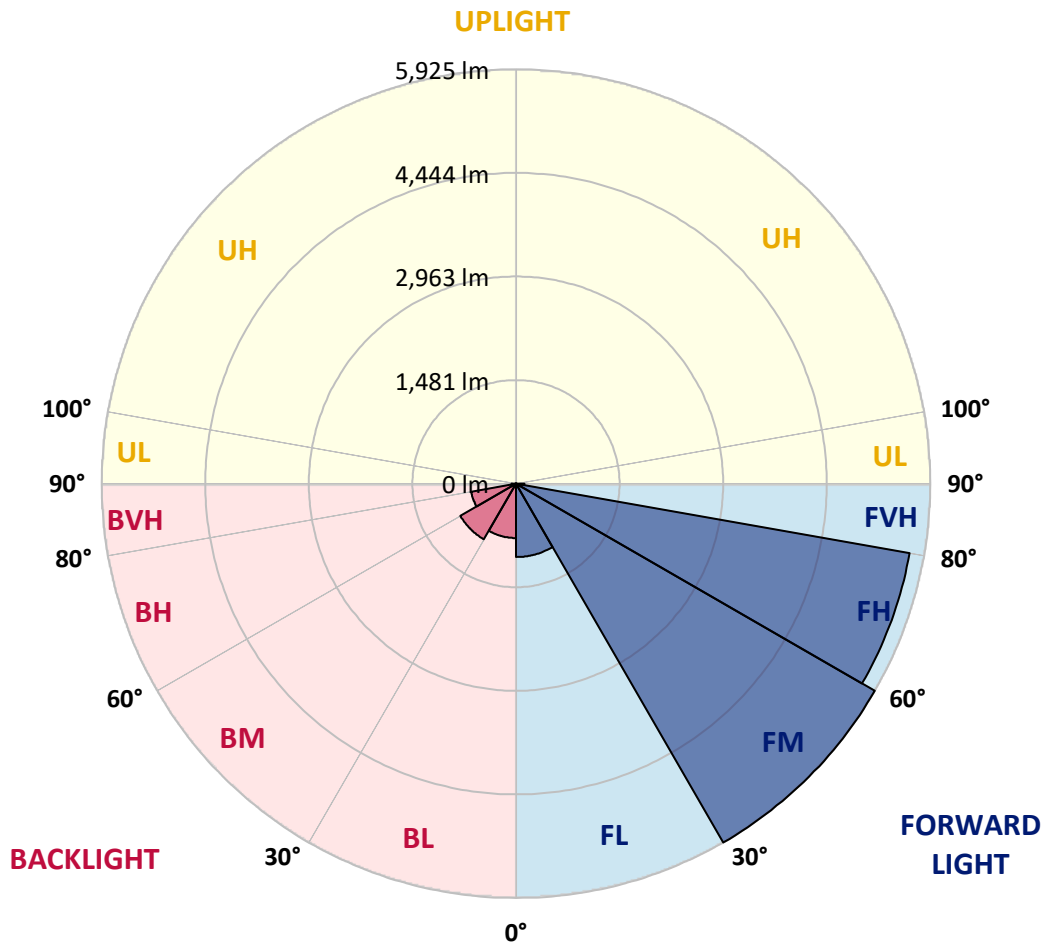


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1048.9	6.9			
FM (30°-60°)	5925.1	38.9			
FH (60°-80°)	5715.6	37.6			G3/7500
FVH (80°-90°)	121.2	0.8			G2/225
BL (0°-30°)	777.9	5.1	B2/1000		
BM (30°-60°)	919.3	6.0	B1/1000		
BH (60°-80°)	651.1	4.3	B2/1000		G2/1000
BVH (80°-90°)	61.3	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°	2368.2	2368.2	2368.2	2368.2	2368.2	2368.2	2368.2	2368.2	2368.2	2368.2
2.5°	2175.5	2166.6	2177.3	2166.6	2214.8	2243.3	2252.2	2264.7	2309.4	2352.2
5°	2084.5	2045.2	2088.1	2102.3	2105.9	2154.1	2204.1	2213.0	2236.2	2305.8
7.5°	1932.8	1977.4	1961.3	2004.2	2048.8	2097.0	2179.1	2155.9	2241.5	2307.6
10°	1900.7	1904.2	1922.1	1938.1	1977.4	2039.9	2154.1	2139.8	2227.3	2368.2
12.5°	1932.8	1932.8	1927.4	1914.9	1959.6	2020.2	2111.3	2118.4	2255.8	2386.1
15°	2045.2	2066.6	2009.5	2018.5	2000.6	2020.2	2100.5	2116.6	2266.5	2400.4
17.5°	2320.1	2312.9	2245.1	2150.5	2072.0	2059.5	2114.8	2132.7	2255.8	2441.4
20°	2587.8	2573.5	2455.7	2357.5	2202.3	2129.1	2138.0	2139.8	2273.7	2468.2
22.5°	2885.8	2923.3	2794.8	2594.9	2402.2	2220.1	2184.4	2213.0	2314.7	2482.5
25°	3353.4	3273.1	3162.4	2900.1	2589.5	2361.1	2261.2	2275.4	2354.0	2518.2
27.5°	3690.7	3658.6	3485.4	3273.1	2851.9	2471.8	2302.2	2329.0	2425.4	2516.4
30°	4015.5	4015.5	3910.2	3592.5	3128.5	2657.4	2389.7	2377.2	2391.4	2512.8
32.5°	4395.6	4343.9	4192.2	3981.6	3476.5	2826.9	2459.3	2462.8	2462.8	2578.8
35°	4595.5	4679.4	4577.7	4235.0	3742.4	3108.9	2627.0	2600.3	2580.6	2652.0
37.5°	4888.2	4938.2	4831.1	4629.4	4072.6	3337.3	2775.1	2753.7	2639.5	2709.1
40°	5064.9	5055.9	5052.4	4959.6	4509.8	3606.8	2992.9	2937.6	2784.1	2910.8
42.5°	5164.8	5147.0	5366.5	5309.4	4922.1	4003.0	3265.9	3235.6	3066.0	3269.5
45°	5277.2	5409.3	5589.6	5750.2	5402.2	4559.8	3728.2	3685.3	3533.6	3792.4
47.5°	5375.4	5537.8	5768.0	5939.4	5835.8	5164.8	4299.2	4310.0	4210.0	4475.9
50°	5539.6	5555.6	5868.0	6214.2	6294.5	5723.4	5066.7	5048.8	5004.2	5377.2
52.5°	5489.6	5537.8	5932.2	6374.8	6506.9	6314.1	5891.2	5944.7	5885.8	6355.2
55°	4675.8	4820.4	5893.0	6544.4	7010.1	6981.6	6951.3	6915.6	6912.0	7454.5
57.5°	4306.4	4424.2	5191.6	6731.7	7549.1	7759.7	7956.0	7995.3	7993.5	8648.5
60°	4063.7	4185.0	4907.8	6630.0	8007.8	8778.7	9155.3	9160.7	9150.0	9924.5
62.5°	3589.0	3706.7	4417.0	6073.2	8134.5	9719.3	10558.1	10627.7	10136.9	11023.9
65°	3017.9	3114.2	3740.6	5221.9	7797.2	10317.1	11612.8	11530.7	10968.5	11652.1
67°	2468.2	2532.4	3142.8	4483.1	6915.6	10029.8	11918.0	11985.8	11352.2	11678.8
67.5°	2311.1	2370.0	2946.5	4231.4	6580.0	9812.1	11928.7	11918.0	11359.4	11684.2
70°	1604.4	1629.4	2007.7	2910.8	4847.1	8289.7	11057.8	11082.7	10882.9	11050.6
72.5°	1063.7	1101.1	1342.1	1834.6	2857.2	6032.2	9242.8	9510.5	9383.7	9060.7
75°	685.3	706.7	878.1	1092.2	1406.3	3435.5	6828.1	7006.6	6715.7	5603.8
77.5°	383.7	406.9	530.0	663.9	685.3	1429.5	3835.2	4056.5	3437.3	2380.7
80°	239.1	269.5	399.8	394.4	326.6	524.7	1581.2	1693.6	1374.2	819.2
82.5°	180.3	203.5	308.7	276.6	183.8	233.8	592.5	635.3	503.3	315.9
85°	123.1	155.3	223.1	171.3	96.4	112.4	235.6	253.4	230.2	153.5
87.5°	44.6	66.0	116.0	85.7	42.8	33.9	76.7	85.7	82.1	69.6
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°
2368.2	0°	2368.2	2368.2	2368.2	2368.2	2368.2	2368.2	2368.2	2368.2	2368.2	2368.2
2389.7	2.5°	2423.6	2448.6	2461.0	2534.2	2564.6	2559.2	2566.3	2577.1	2587.8	2602.0
2420.0	5°	2443.2	2519.9	2561.0	2646.7	2703.8	2678.8	2710.9	2702.0	2689.5	2687.7
2475.3	7.5°	2507.4	2605.6	2728.7	2751.9	2776.9	2714.5	2660.9	2587.8	2569.9	2507.4
2521.7	10°	2621.7	2702.0	2851.9	2860.8	2750.2	2589.5	2470.0	2318.3	2316.5	2225.5
2593.1	12.5°	2730.5	2821.5	2942.9	2891.2	2627.0	2407.5	2213.0	2047.0	1977.4	1931.0
2635.9	15°	2798.3	2948.3	3012.5	2789.4	2411.1	2114.8	1863.2	1684.7	1613.3	1579.4
2689.5	17.5°	2860.8	3069.6	3041.1	2611.0	2145.2	1813.2	1513.4	1358.1	1338.5	1313.5
2775.1	20°	2946.5	3114.2	2939.3	2379.0	1843.6	1424.2	1233.2	1158.2	1176.1	1186.8
2784.1	22.5°	3026.8	3137.4	2810.8	2125.5	1456.3	1127.9	1033.3	1049.4	1076.2	1111.8
2805.5	25°	3062.5	3174.9	2637.7	1775.7	1108.3	949.4	928.0	954.8	999.4	1001.2
2835.8	27.5°	3085.7	3148.1	2428.9	1434.9	876.3	829.9	862.0	881.6	887.0	908.4
2900.1	30°	3126.7	3092.8	2164.8	1026.2	735.3	737.1	778.1	778.1	778.1	794.2
2964.3	32.5°	3198.1	3055.3	1856.0	749.6	633.6	690.7	680.0	676.4	669.2	649.6
3046.4	35°	3242.7	2953.6	1465.2	555.0	569.3	633.6	630.0	574.7	481.9	435.5
3255.2	37.5°	3335.5	2901.9	1077.9	428.3	531.8	605.0	585.4	451.5	349.8	305.2
3514.0	40°	3535.4	2867.9	746.0	374.8	506.8	590.7	522.9	385.5	267.7	189.2
3913.8	42.5°	3779.9	2869.7	506.8	353.4	508.6	621.1	503.3	330.2	189.2	151.7
4447.4	45°	4108.3	2843.0	348.0	353.4	540.8	671.0	515.8	299.8	183.8	192.7
5116.6	47.5°	4461.7	2866.2	258.8	321.2	546.1	672.8	471.2	294.5	176.7	223.1
5844.8	50°	4873.9	2889.4	214.2	296.3	547.9	651.4	433.7	287.3	183.8	235.6
6680.0	52.5°	5298.7	2962.5	182.0	280.2	569.3	642.5	433.7	298.0	183.8	205.2
7743.6	55°	5932.2	3149.9	262.3	349.8	647.8	701.4	533.6	417.6	257.0	264.1
8762.7	57.5°	6631.8	3342.7	292.7	367.6	665.7	631.8	574.7	460.4	271.3	273.1
9555.1	60°	7092.2	3349.8	290.9	358.7	622.8	546.1	562.2	485.4	276.6	233.8
10045.9	62.5°	7276.1	3132.1	303.4	358.7	580.0	510.4	576.4	522.9	285.5	292.7
10185.1	65°	7067.3	2682.3	292.7	321.2	510.4	456.9	580.0	530.0	312.3	294.5
9935.2	67°	6740.7	2311.1	298.0	305.2	474.7	433.7	610.4	556.8	362.3	353.4
9804.9	67.5°	6647.9	2213.0	296.3	296.3	462.2	426.5	617.5	556.8	369.4	365.9
8653.8	70°	5859.0	1793.6	303.4	292.7	408.7	405.1	656.8	587.2	424.7	428.3
6357.0	72.5°	4459.9	1359.9	301.6	292.7	355.1	387.3	662.1	606.8	462.2	428.3
3560.4	75°	2534.2	813.8	265.9	255.2	280.2	337.3	619.3	578.2	449.7	383.7
1422.4	77.5°	1047.6	419.4	244.5	230.2	232.0	274.8	515.8	539.0	428.3	326.6
474.7	80°	390.8	251.6	196.3	183.8	178.5	201.7	367.6	430.1	365.9	267.7
208.8	82.5°	203.5	157.1	133.8	133.8	121.4	128.5	198.1	285.5	276.6	183.8
83.9	85°	103.5	89.2	76.7	75.0	67.8	60.7	99.9	169.5	158.8	101.7
37.5	87.5°	55.3	50.0	32.1	30.3	25.0	16.1	17.8	33.9	55.3	44.6
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>
2368.2
2616.3
2703.8
2528.9
2221.9
1920.3
1572.3
1326.0
1174.3
1092.2
1019.0
928.0
812.0
638.9
456.9
303.4
183.8
148.1
196.3
248.1
273.1
210.6
278.4
264.1
240.9
296.3
289.1
348.0
358.7
396.2
380.1
342.7
308.7
244.5
144.6
83.9
32.1
0.0

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