

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: P638099

Luminaire Tested: **IFLD-L-SA8D-727-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638099
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-727-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35860.7 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

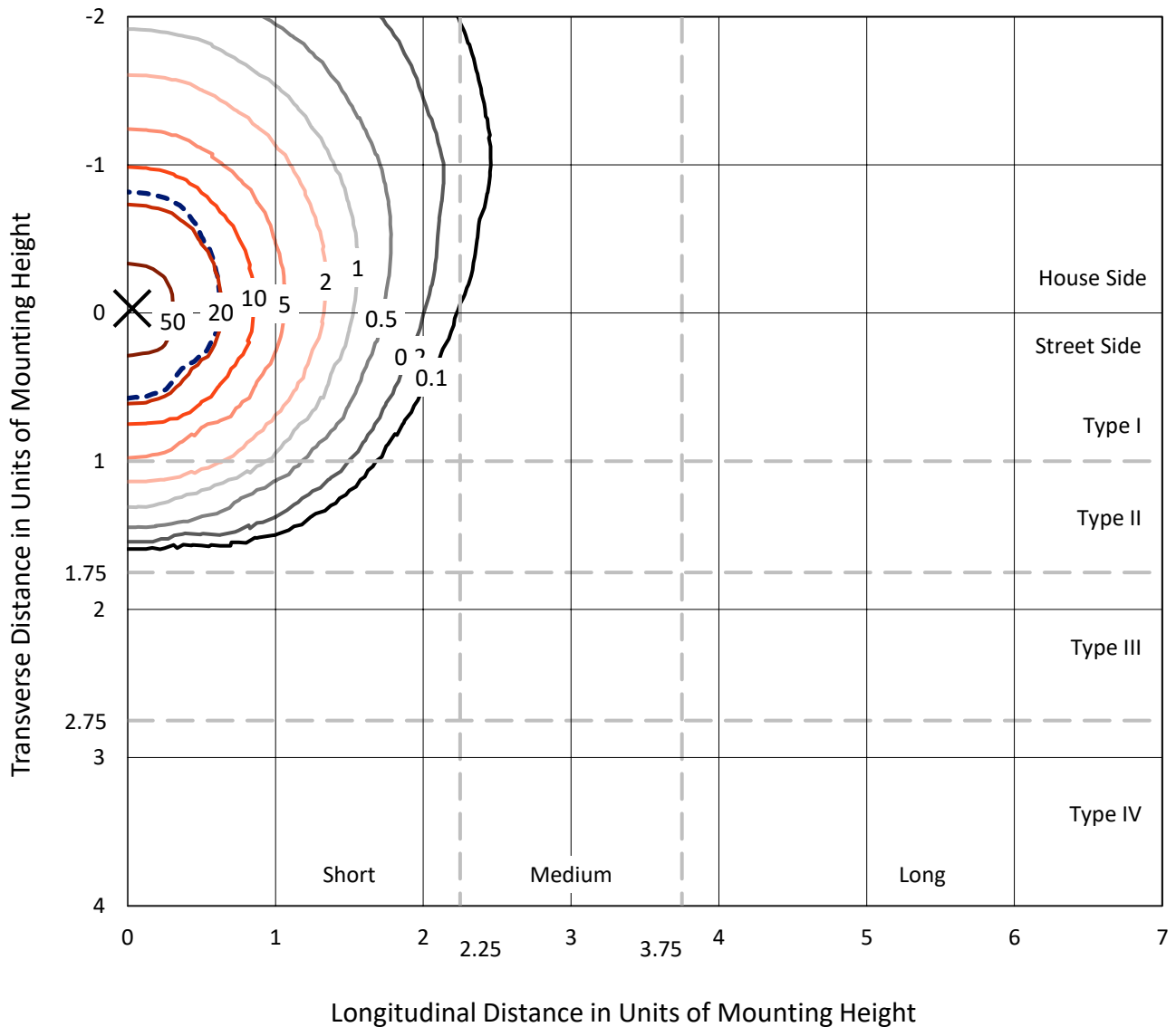
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

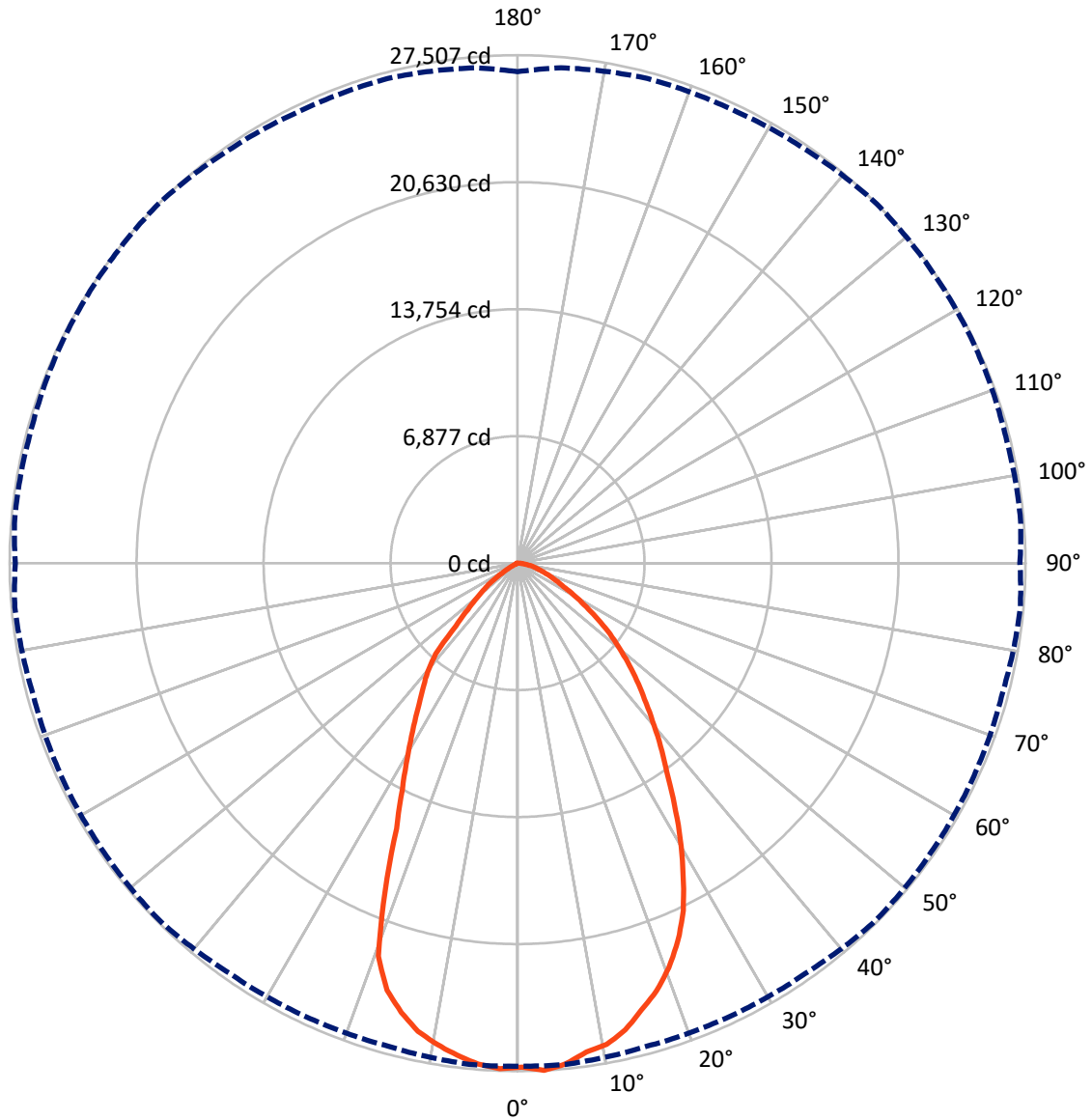
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 68.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21238.5	0.0	21238.5
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	14622.1	0.0	14622.1
	% Fixture	40.8	0.0	40.8
Total	Lumens	35860.7	0.0	35860.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2559.4	7.1
10°-20°	6863.1	19.1
20°-30°	8369.9	23.3
30°-40°	7641.6	21.3
40°-50°	5522.4	15.4
50°-60°	3015.3	8.4
60°-70°	1246.7	3.5
70°-80°	504.9	1.4
80°-90°	137.3	0.4
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°	35860.7	100.0
0°-180°	35860.7	100.0



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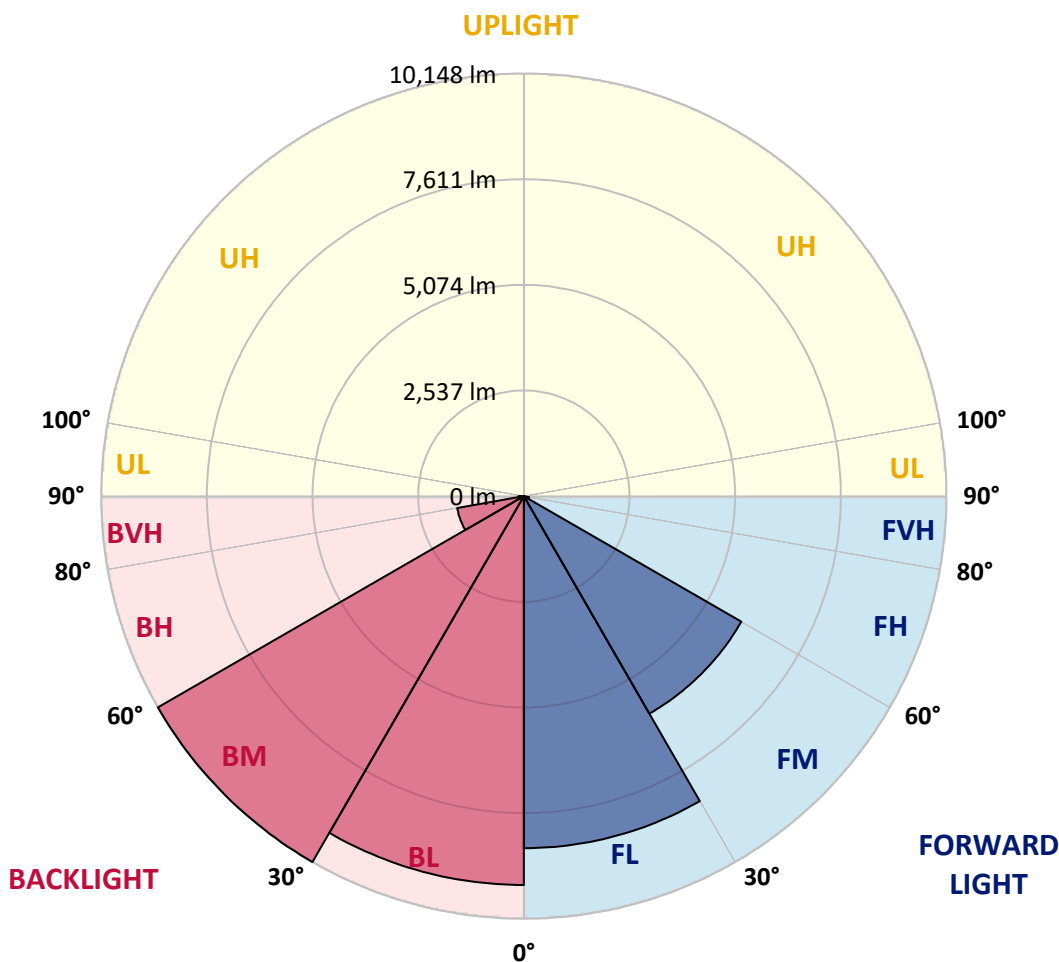
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8453.7	23.6			
FM (30°-60°)	6031.1	16.8			
FH (60°-80°)	126.3	0.4			G0/660
FVH (80°-90°)	11.0	0.0			G1/100
BL (0°-30°)	9338.6	26.0	B5		
BM (30°-60°)	10148.3	28.3	B5		
BH (60°-80°)	1625.3	4.5	B3/2500		G3/2500
BVH (80°-90°)	126.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	27289.9	27289.9	27289.9	27289.9	27289.9	27289.9	27289.9	27289.9	27289.9	27289.9
2.5°	27239.4	27274.8	27082.9	27103.1	27138.4	27395.9	27330.3	27269.7	27183.9	27330.3
5°	27204.1	27224.3	27022.3	26951.6	26981.9	27214.2	27002.1	27002.1	26981.9	26956.6
7.5°	26931.4	26941.5	26784.9	26658.7	26739.5	26845.5	26689.0	26764.7	26653.6	26739.5
10°	26522.3	26456.7	26269.8	26234.5	26325.4	26426.4	26320.3	26391.0	26290.0	26355.7
12.5°	25921.4	25820.4	25668.9	25623.4	25780.0	25916.3	25830.5	25790.1	25658.8	25820.4
15°	23603.4	23527.7	23871.1	24472.0	25012.4	25128.5	25037.6	25078.0	24805.3	24850.8
17.5°	19427.1	19285.7	19654.4	21078.5	23108.5	24179.1	24098.3	23835.7	23431.7	23522.6
20°	17654.6	17614.2	17573.8	17912.2	19331.2	22578.3	22689.4	22022.8	21447.1	21320.9
22.5°	16654.7	16639.6	16599.2	16674.9	17048.6	19134.2	20406.8	19790.7	19406.9	19371.6
25°	15740.7	15715.4	15594.2	15690.2	15690.2	15811.4	17442.5	17816.2	17477.9	17437.5
27.5°	14811.5	14766.0	14745.8	14791.3	14559.0	13740.9	14155.0	15978.0	15801.3	15811.4
30°	13806.5	13791.4	13735.8	13831.8	13114.7	12099.7	11837.1	14311.5	14346.9	14336.8
32.5°	12311.8	12377.4	12629.9	12736.0	11554.3	10716.0	10276.6	12382.5	13104.6	13089.5
35°	8943.5	8943.5	9766.6	11296.7	10125.1	9493.9	9256.5	10498.8	11877.5	11928.0
37.5°	7352.7	7378.0	7539.6	8236.5	8736.4	8514.2	8443.5	8837.4	10301.9	10382.7
40°	6615.4	6615.4	6615.4	6327.6	6312.4	7670.9	7630.5	7504.2	8898.0	9074.8
42.5°	5943.8	5958.9	5969.0	5241.8	4837.8	6630.6	6539.7	6347.8	7640.6	7847.6
45°	5251.9	5277.2	5307.5	4383.4	4206.6	4772.2	5534.7	5322.6	6398.3	6665.9
47.5°	3206.7	3247.1	3933.9	3716.8	3737.0	3681.4	4514.7	4479.3	5246.9	5625.6
50°	2166.4	2181.6	2247.2	2358.3	3206.7	2893.6	3196.6	3706.7	3984.4	4560.1
52.5°	1818.0	1843.2	1681.6	1530.1	2105.8	2262.4	2232.1	2752.2	2863.3	3575.4
55°	1277.6	1358.4	1282.7	1267.5	1196.8	1757.4	1691.7	2115.9	2186.6	2716.9
57.5°	131.3	151.5	262.6	944.3	782.7	994.8	1206.9	1550.3	1621.0	2004.8
60°	10.1	10.1	25.2	131.3	570.6	595.9	833.2	954.4	1090.8	1398.8
62.5°	0.0	5.0	10.1	20.2	90.9	318.1	419.1	499.9	656.5	903.9
65°	0.0	0.0	5.0	15.1	20.2	121.2	161.6	262.6	358.5	560.5
67.5°	0.0	0.0	5.0	10.1	15.1	30.3	55.5	95.9	191.9	318.1
70°	0.0	0.0	5.0	10.1	15.1	25.2	40.4	60.6	85.8	171.7
72.5°	0.0	0.0	5.0	5.0	10.1	25.2	30.3	40.4	60.6	85.8
75°	0.0	0.0	5.0	5.0	15.1	30.3	25.2	30.3	40.4	55.5
77.5°	0.0	0.0	5.0	10.1	15.1	30.3	25.2	30.3	30.3	35.3
80°	0.0	0.0	5.0	10.1	20.2	35.3	30.3	30.3	25.2	25.2
82.5°	0.0	0.0	5.0	15.1	20.2	45.4	45.4	40.4	20.2	15.1
85°	0.0	0.0	10.1	20.2	30.3	50.5	50.5	40.4	15.1	10.1
87.5°	0.0	0.0	10.1	15.1	25.2	35.3	50.5	40.4	15.1	5.0
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
27289.9	0°	27289.9	27289.9	27289.9	27289.9	27289.9	27289.9	27289.9	27289.9	27289.9
27204.1	2.5°	27340.4	27310.1	27411.1	27451.5	27507.0	27295.0	27163.7	27168.7	26926.3
26896.0	5°	27057.6	27062.7	27194.0	27183.9	27239.4	27123.3	27072.8	26986.9	26774.8
26507.2	7.5°	26699.1	26653.6	26779.9	26875.8	26734.4	26815.2	26699.1	26739.5	26613.2
26163.8	10°	26421.3	26315.3	26431.4	26497.1	26502.1	26421.3	26310.2	26204.2	26158.7
25628.5	12.5°	25805.2	25668.9	25865.8	25956.7	25941.6	25785.0	25658.8	25684.0	25537.6
24689.2	15°	24956.8	24961.9	25103.3	25189.1	25108.3	25073.0	25083.1	25022.5	24896.2
23391.3	17.5°	23659.0	23734.7	24108.4	24315.5	24360.9	24290.2	24254.9	24184.2	24057.9
21320.9	20°	21497.6	21952.1	22618.7	23260.0	23386.3	23366.1	23239.8	23209.5	23138.8
19270.6	22.5°	19598.8	19937.2	20709.8	21709.7	22224.8	22275.3	22123.8	22078.4	22002.6
17437.5	25°	17634.4	17998.0	18694.9	19780.6	20846.2	21063.3	21038.1	20901.7	20820.9
15811.4	27.5°	15978.0	16341.6	16972.9	17952.6	19093.8	19790.7	19856.4	19639.2	19634.2
14362.0	30°	14483.2	14983.2	15462.9	16260.8	17366.8	18412.1	18523.2	18371.7	18386.8
13033.9	32.5°	13311.7	13725.7	14134.8	14670.1	15589.2	16806.2	17240.5	17099.1	17043.6
11928.0	35°	12114.8	12397.6	12816.8	13306.6	13932.8	15139.7	15892.2	15786.1	15730.6
10433.2	37.5°	10751.3	11236.1	11539.1	12089.6	12579.4	13538.9	14599.4	14584.2	14468.1
9160.6	40°	9352.5	9862.5	10322.1	10877.6	11256.3	12018.9	13195.5	13190.5	13205.6
7842.6	42.5°	8085.0	8554.6	9110.1	9716.1	10079.7	10635.2	11897.7	11968.4	12054.2
6756.8	45°	6938.6	7362.8	7877.9	8615.2	9054.6	9372.7	10493.8	10817.0	10811.9
5787.2	47.5°	5908.4	6307.4	6741.7	7458.8	8019.3	8307.2	9236.3	9695.9	9665.6
4746.9	50°	4959.0	5312.5	5767.0	6287.2	7039.6	7292.1	7984.0	8590.0	8544.5
3782.4	52.5°	3989.5	4479.3	4863.1	5337.8	6130.6	6378.1	6913.4	7504.2	7468.9
2838.1	55°	3110.8	3585.5	4050.1	4459.1	5125.7	5494.3	5878.1	6484.1	6474.0
2222.0	57.5°	2353.3	2873.4	3312.8	3701.6	4231.9	4686.3	4994.4	5544.8	5615.5
1520.0	60°	1742.2	2141.2	2615.9	3050.2	3469.3	3939.0	4146.0	4686.3	4716.6
1040.3	62.5°	1186.7	1626.1	2090.7	2484.6	2797.7	3282.5	3469.3	3913.7	3969.3
666.6	65°	823.1	1105.9	1636.2	1919.0	2302.8	2716.9	2903.7	3257.2	3368.3
383.8	67.5°	545.4	787.8	1277.6	1535.2	1913.9	2196.7	2434.1	2721.9	2843.1
242.4	70°	297.9	580.7	914.0	1212.0	1540.2	1812.9	2045.2	2277.5	2383.6
111.1	72.5°	202.0	388.8	636.3	959.5	1242.3	1509.9	1717.0	1888.7	1893.7
65.6	75°	101.0	262.6	484.8	742.3	969.6	1232.2	1419.0	1520.0	1398.8
40.4	77.5°	60.6	191.9	393.9	595.9	787.8	994.8	1100.9	1156.4	959.5
30.3	80°	35.3	136.3	308.0	474.7	545.4	732.2	833.2	848.4	641.3
20.2	82.5°	25.2	101.0	242.4	348.4	333.3	515.1	626.2	606.0	409.0
15.1	85°	15.1	70.7	151.5	217.1	202.0	338.3	363.6	373.7	237.3
10.1	87.5°	10.1	40.4	80.8	116.1	95.9	146.4	146.4	176.7	116.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
27289.9
26613.2
26724.3
26401.1
25956.7
25411.3
24770.0
24002.4
22977.2
21982.4
20735.1
19624.1
18311.1
17048.6
15654.8
14564.0
13205.6
12008.8
10822.0
9675.7
8584.9
7544.6
6499.3
5585.2
4762.1
3979.4
3343.1
2828.0
2343.2
1848.3
1307.9
924.1
600.9
378.7
217.1
101.0
0.0

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