

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: P637834

Luminaire Tested: **IFLD-L-SA7E-727-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637834
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-727-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39808.3 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

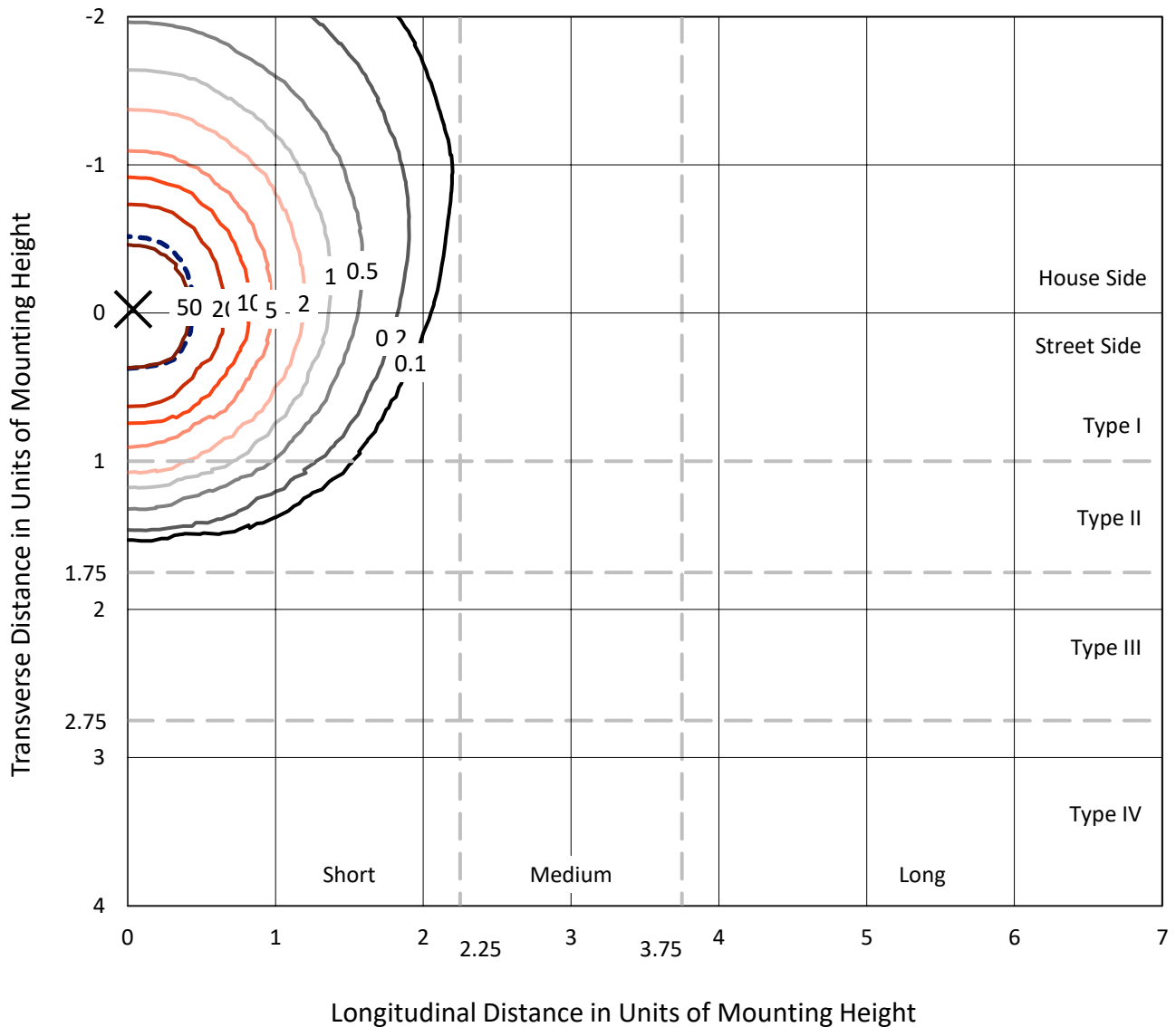
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

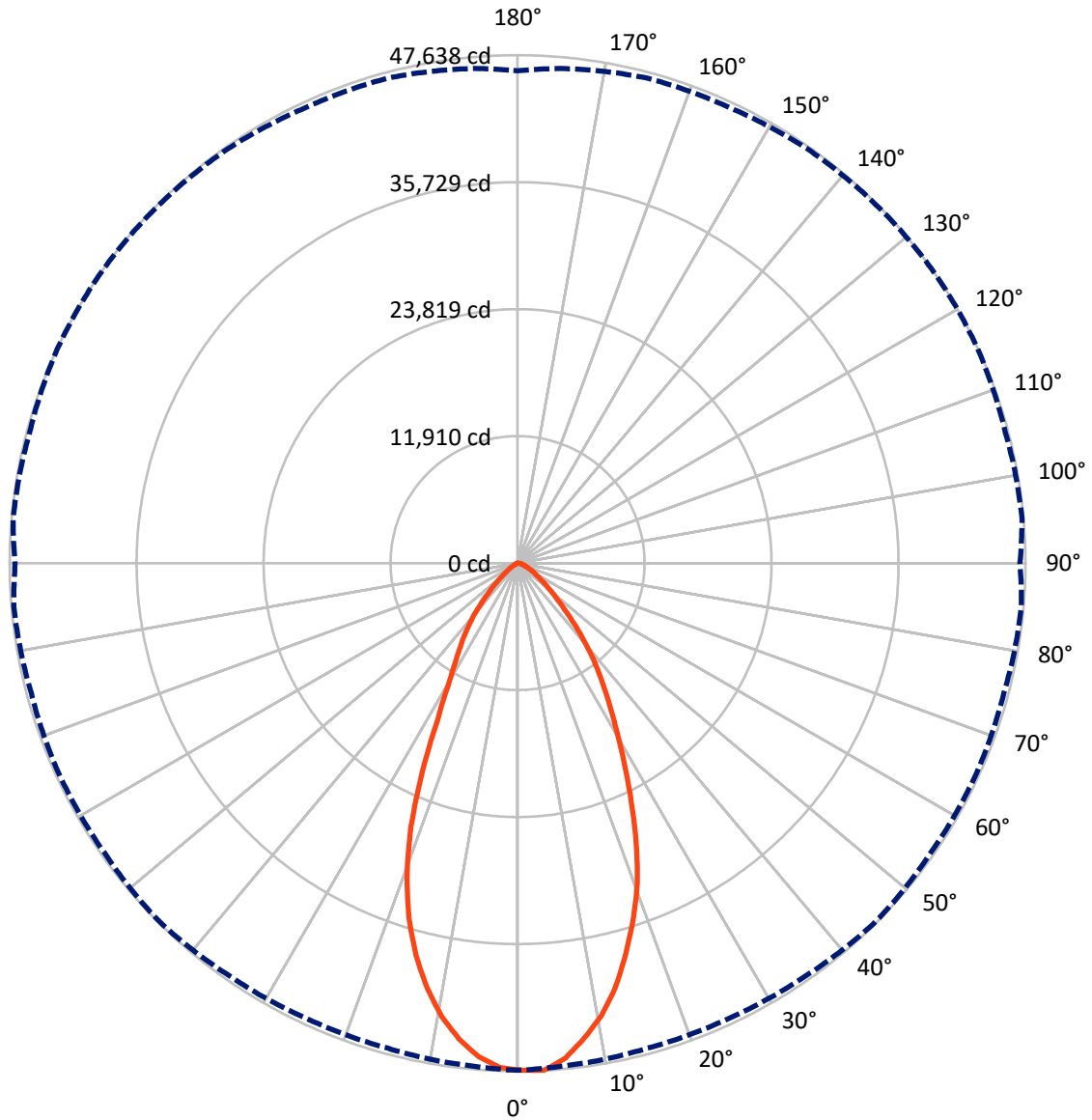
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 118.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22588.8	0.0	22588.8
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	17219.5	0.0	17219.5
	% Fixture	43.3	0.0	43.3
Total	Lumens	39808.3	0.0	39808.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4318.8	10.8
10°-20°	10294.9	25.9
20°-30°	10485.2	26.3
30°-40°	7818.8	19.6
40°-50°	4084.7	10.3
50°-60°	1718.1	4.3
60°-70°	701.7	1.8
70°-80°	295.3	0.7
80°-90°	91.0	0.2
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°	39808.3	100.0
0°-180°	39808.3	100.0



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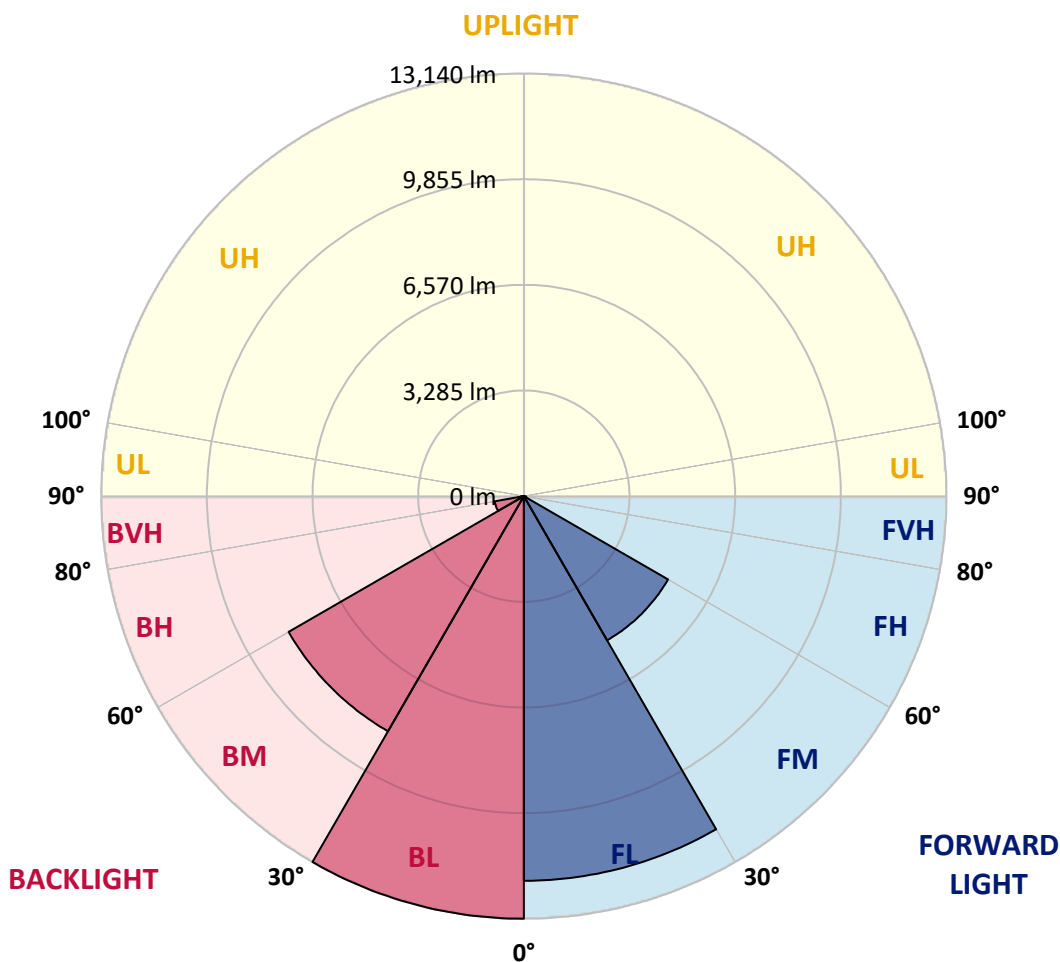
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11958.9	30.0			
FM (30°-60°)	5177.2	13.0			
FH (60°-80°)	74.9	0.2			G0/660
FVH (80°-90°)	8.5	0.0			G0/10
BL (0°-30°)	13139.9	33.0	B5		
BM (30°-60°)	8444.3	21.2	B4/8500		
BH (60°-80°)	922.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	82.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	47561.3	47561.3	47561.3	47561.3	47561.3	47561.3	47561.3	47561.3	47561.3	47561.3
2.5°	47566.4	47372.1	47096.0	47070.4	47213.6	47525.5	47326.1	47336.3	47213.6	47423.3
5°	46819.9	46635.8	46446.6	46196.0	46405.7	46538.6	46436.3	46323.8	46165.3	46369.9
7.5°	45408.5	45306.2	45025.0	44912.5	45040.3	45188.6	44968.7	44938.1	44718.2	44984.1
10°	43250.6	43209.7	42933.5	42867.1	42979.6	43204.6	43107.4	43086.9	42948.9	42923.3
12.5°	41010.8	40852.3	40509.7	40489.3	40658.0	40995.5	40734.7	40484.1	40560.8	40627.3
15°	35242.7	35074.0	35922.8	37257.5	37958.0	37932.5	38009.2	37707.5	37615.4	37646.1
17.5°	28017.3	27730.9	28037.7	30103.6	33432.5	35365.5	34833.6	34184.2	33836.5	33606.4
20°	24182.1	24197.4	24141.2	24673.0	26749.1	31157.0	31029.1	29776.3	29321.2	29132.0
22.5°	21850.3	21763.4	21640.6	21809.4	22366.8	24954.2	26687.7	25537.2	25378.7	25169.0
25°	19564.5	19564.5	19416.2	19585.0	19743.5	19779.3	21517.9	21988.4	21681.5	21681.5
27.5°	17585.6	17483.3	17416.8	17493.5	17283.9	16276.5	16496.4	18904.9	18695.2	18567.4
30°	15622.0	15591.3	15478.8	15581.1	14803.8	13668.6	13208.4	15954.3	16174.2	16128.2
32.5°	12896.4	13019.2	13520.3	13678.8	12349.3	11433.9	10994.2	13244.1	14123.7	14087.9
35°	8764.7	8866.9	9439.7	11331.7	10237.4	9582.8	9455.0	10534.0	11981.1	12119.2
37.5°	6980.0	6964.7	7128.3	7465.8	8227.7	8069.2	8033.4	8314.7	9772.0	9833.4
40°	5752.8	5732.3	5727.2	5451.1	5261.9	6709.0	6611.8	6443.1	7706.2	7828.9
42.5°	4638.0	4658.5	4673.8	4070.4	3794.3	5174.9	5118.7	4944.8	6044.2	6187.4
45°	3640.9	3635.7	3666.4	3032.3	2955.6	3308.5	3825.0	3686.9	4561.3	4714.7
47.5°	1886.9	1953.4	2367.6	2347.1	2382.9	2347.1	2894.3	2858.5	3431.2	3676.7
50°	1268.2	1288.6	1324.4	1329.5	1876.7	1728.4	1963.6	2224.4	2403.4	2781.8
52.5°	981.8	997.1	905.1	848.9	1150.6	1278.4	1288.6	1539.2	1677.3	2060.8
55°	547.2	613.6	659.7	664.8	634.1	946.0	940.9	1140.3	1247.7	1503.4
57.5°	71.6	86.9	133.0	429.5	424.4	526.7	659.7	828.4	889.8	1099.4
60°	5.1	10.2	15.3	66.5	281.2	306.8	450.0	516.5	618.7	772.1
62.5°	0.0	0.0	5.1	15.3	56.2	179.0	235.2	271.0	363.1	506.2
65°	0.0	0.0	5.1	10.2	20.5	66.5	92.0	148.3	214.8	311.9
67.5°	0.0	0.0	5.1	10.2	15.3	25.6	40.9	66.5	112.5	189.2
70°	0.0	0.0	5.1	10.2	15.3	20.5	30.7	40.9	61.4	102.3
72.5°	0.0	0.0	5.1	5.1	10.2	25.6	25.6	30.7	40.9	56.2
75°	0.0	0.0	5.1	10.2	15.3	25.6	25.6	25.6	30.7	35.8
77.5°	0.0	0.0	5.1	10.2	15.3	25.6	20.5	25.6	25.6	25.6
80°	0.0	0.0	5.1	10.2	15.3	25.6	30.7	25.6	20.5	20.5
82.5°	0.0	0.0	5.1	15.3	15.3	35.8	35.8	35.8	15.3	15.3
85°	0.0	0.0	10.2	15.3	25.6	40.9	40.9	30.7	15.3	10.2
87.5°	0.0	0.0	5.1	10.2	10.2	20.5	30.7	25.6	10.2	5.1
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°
47561.3	0°	47561.3	47561.3	47561.3	47561.3	47561.3	47561.3	47561.3	47561.3	47561.3
47116.4	2.5°	47494.8	47367.0	47607.3	47638.0	47535.8	47407.9	47111.3	47085.8	46569.3
46073.3	5°	46594.9	46385.2	46538.6	46640.9	46605.1	46467.0	46344.3	46231.8	45766.5
44380.7	7.5°	44917.6	44840.9	44912.5	44989.2	45137.5	44989.2	44938.1	44820.5	44360.2
42713.7	10°	43056.3	42913.1	43184.1	43148.3	43107.4	43066.5	42851.7	42872.2	42330.1
40443.2	12.5°	40770.5	40530.2	40791.0	40821.6	40791.0	40647.8	40407.4	40509.7	40013.7
37375.1	15°	37697.2	37671.7	37860.9	37983.6	38070.5	37917.1	37835.3	37886.4	37589.9
33427.4	17.5°	33923.4	34255.8	34874.6	35084.2	35089.3	35247.8	35201.8	35140.5	34920.6
29055.3	20°	29484.9	30124.0	31075.2	32051.9	32333.1	32200.2	32138.8	32251.3	31924.0
24949.1	22.5°	25388.9	25936.0	27040.6	28467.2	29290.5	29372.4	29357.0	29259.9	29132.0
21661.1	25°	21911.7	22397.4	23456.0	24759.9	26340.0	26575.2	26585.5	26554.8	26442.3
18679.9	27.5°	18976.5	19564.5	20147.5	21313.4	22995.7	23967.3	23844.6	23808.8	23767.9
16164.0	30°	16317.4	17058.9	17606.0	18332.2	19840.7	21154.8	21282.7	21221.3	21124.2
14082.8	32.5°	14210.6	14650.4	15345.8	15836.7	16920.8	18408.9	18899.8	18853.7	18766.8
12206.1	35°	12380.0	12553.8	13101.0	13648.1	14369.1	15811.2	16537.3	16435.0	16419.7
9945.9	37.5°	10196.5	10779.4	11081.1	11633.4	12139.6	13259.5	14261.7	14215.7	14220.8
7997.6	40°	8232.8	8570.3	9168.6	9634.0	10099.3	10917.5	12032.2	12062.9	12052.7
6192.5	42.5°	6320.4	6647.6	7276.6	7782.9	8197.1	8703.3	9766.9	9802.7	9848.7
4822.1	45°	4934.6	5144.3	5604.5	6131.2	6570.9	6877.8	7685.7	7915.8	7920.9
3738.0	47.5°	3830.1	4070.4	4397.7	4903.9	5333.5	5553.3	6141.4	6453.3	6438.0
2868.7	50°	3006.8	3226.7	3492.6	3891.4	4356.8	4530.6	4965.3	5272.1	5256.8
2163.0	52.5°	2301.1	2582.4	2817.6	3124.4	3579.5	3727.8	4039.7	4392.6	4341.4
1585.2	55°	1743.7	2030.1	2250.0	2505.6	2919.8	3109.1	3323.8	3605.1	3615.3
1227.3	57.5°	1314.2	1610.8	1810.2	2071.0	2382.9	2592.6	2756.2	3057.9	3052.8
838.6	60°	940.9	1196.6	1436.9	1707.9	1948.3	2188.6	2301.1	2587.5	2597.7
593.2	62.5°	680.1	920.4	1150.6	1385.8	1600.5	1835.8	1938.0	2163.0	2193.7
388.6	65°	475.6	644.3	910.2	1089.2	1329.5	1503.4	1636.3	1830.7	1866.5
230.1	67.5°	306.8	465.3	721.0	879.5	1099.4	1247.7	1385.8	1539.2	1585.2
148.3	70°	184.1	352.8	536.9	705.7	905.1	1038.1	1171.0	1304.0	1329.5
71.6	72.5°	117.6	245.5	388.6	572.7	726.1	869.3	986.9	1084.1	1007.4
46.0	75°	66.5	168.7	306.8	450.0	588.1	726.1	823.3	874.4	700.6
30.7	77.5°	40.9	122.7	250.6	363.1	455.1	582.9	644.3	675.0	501.1
20.5	80°	25.6	92.0	209.7	296.6	296.6	429.5	501.1	526.7	363.1
15.3	82.5°	20.5	66.5	163.6	225.0	199.4	322.2	393.7	398.9	255.7
10.2	85°	15.3	51.1	102.3	148.3	138.1	225.0	230.1	255.7	168.7
10.2	87.5°	10.2	30.7	61.4	86.9	76.7	107.4	122.7	138.1	92.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
47561.3
46165.3
45393.2
44263.1
42146.1
39870.5
37231.9
34593.3
31688.8
28886.6
26063.9
23527.5
21001.4
18536.7
16250.9
14057.2
11873.7
9695.3
7788.0
6381.7
5256.8
4346.5
3615.3
3042.6
2572.1
2183.5
1856.2
1580.1
1309.1
935.8
664.8
470.4
337.5
235.2
153.4
81.8
0.0

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