

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: P637801

Luminaire Tested: **IFLD-L-SA7A-722-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637801
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-722-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19441.1 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

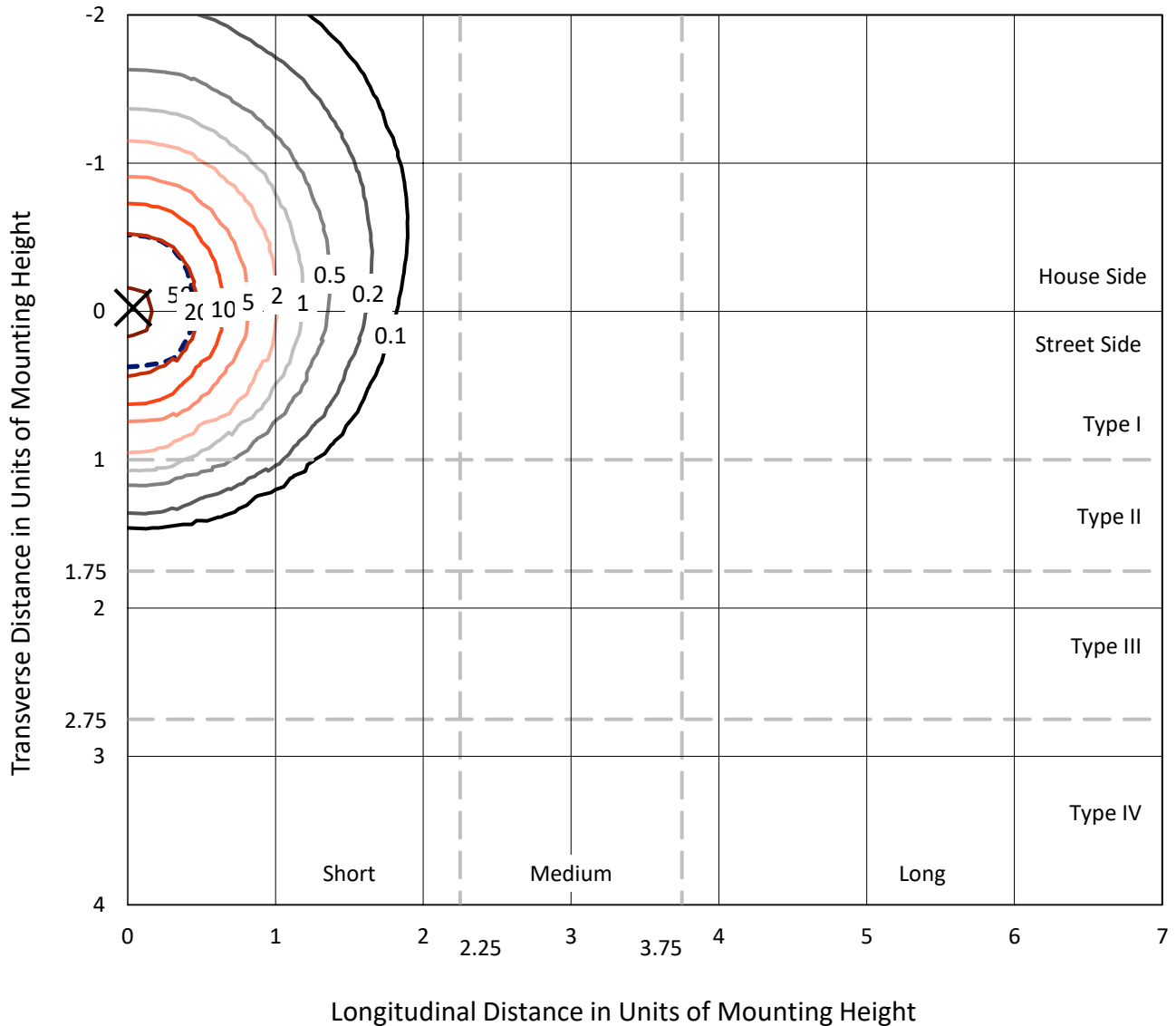
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

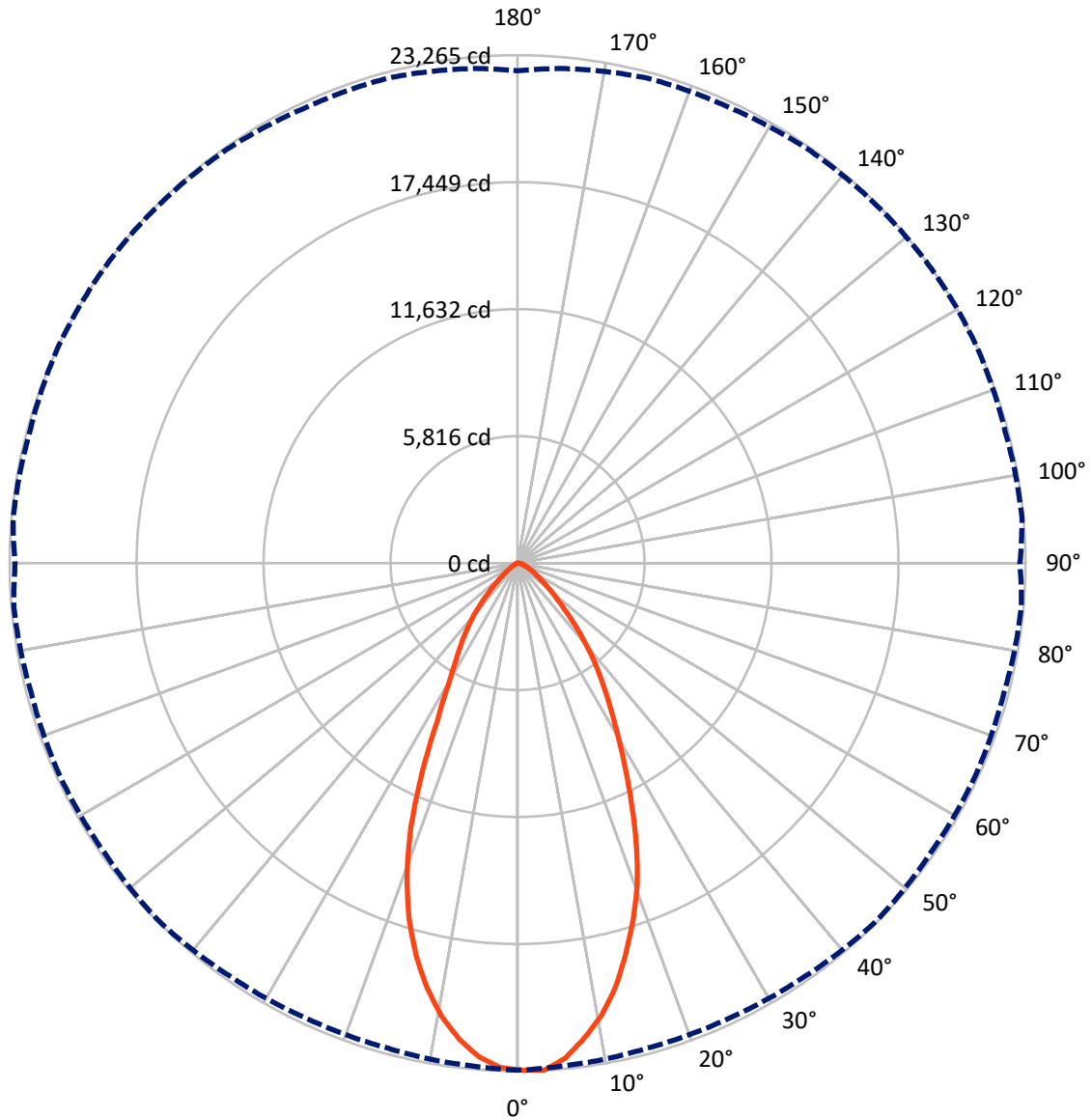
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 58.1 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	11031.6	0.0	11031.6
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	8409.5	0.0	8409.5
	% Fixture	43.3	0.0	43.3
Total	Lumens	19441.1	0.0	19441.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2109.1	10.8
10°-20°	5027.7	25.9
20°-30°	5120.6	26.3
30°-40°	3818.4	19.6
40°-50°	1994.8	10.3
50°-60°	839.0	4.3
60°-70°	342.7	1.8
70°-80°	144.2	0.7
80°-90°	44.4	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°	19441.1	100.0
0°-180°	19441.1	100.0



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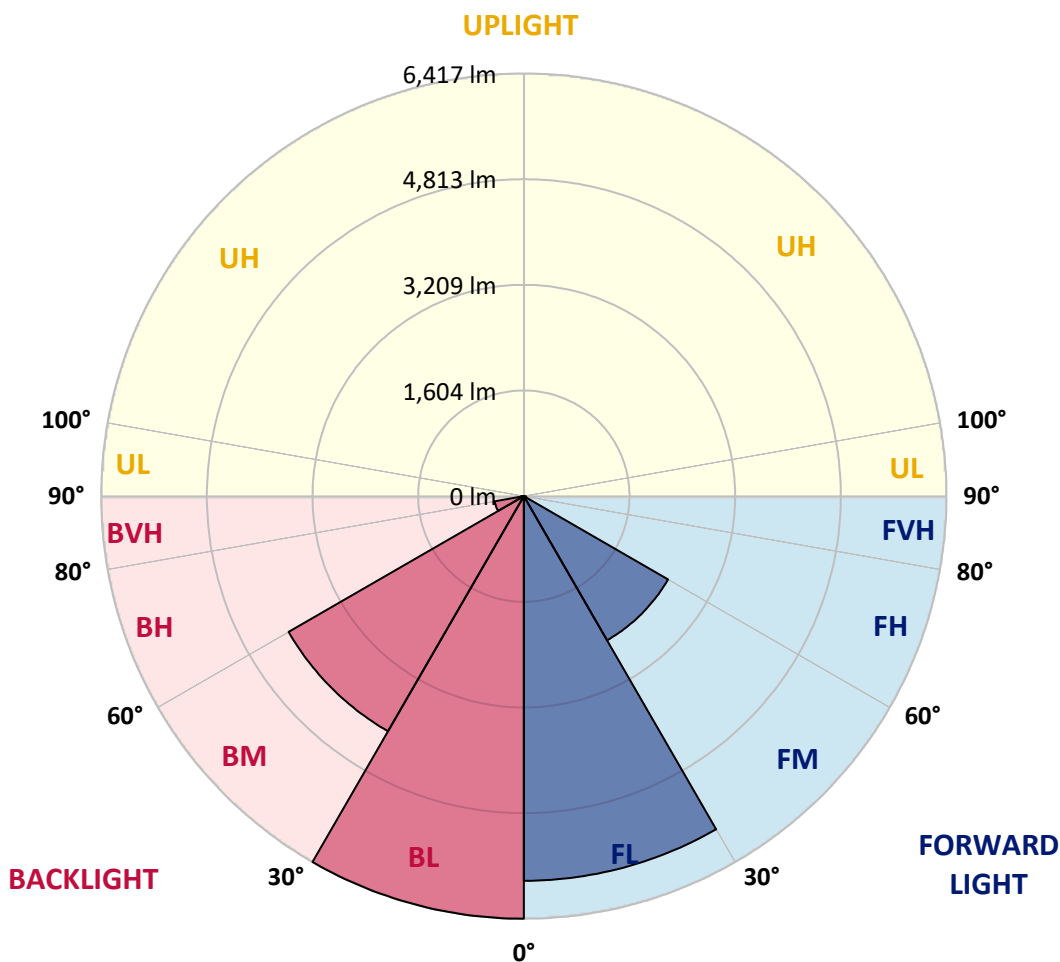
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5840.3	30.0			
FM (30°-60°)	2528.4	13.0			
FH (60°-80°)	36.6	0.2			G0/660
FVH (80°-90°)	4.1	0.0			G0/10
BL (0°-30°)	6417.1	33.0	B5		
BM (30°-60°)	4123.9	21.2	B3/5000		
BH (60°-80°)	450.3	2.3	B1/500		G1/500
BVH (80°-90°)	40.3	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-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	23227.4	23227.4	23227.4	23227.4	23227.4	23227.4	23227.4	23227.4	23227.4	23227.4
2.5°	23229.9	23135.0	23000.1	22987.6	23057.6	23209.9	23112.5	23117.5	23057.6	23159.9
5°	22865.3	22775.4	22683.0	22560.6	22663.0	22727.9	22678.0	22623.0	22545.6	22645.5
7.5°	22176.0	22126.1	21988.7	21933.8	21996.2	22068.6	21961.2	21946.3	21838.9	21968.7
10°	21122.2	21102.2	20967.3	20934.9	20989.8	21099.7	21052.2	21042.2	20974.8	20962.3
12.5°	20028.3	19950.9	19783.6	19773.6	19856.0	20020.8	19893.5	19771.1	19808.6	19841.0
15°	17211.4	17129.0	17543.5	18195.3	18537.4	18525.0	18562.4	18415.1	18370.1	18385.1
17.5°	13682.7	13542.9	13692.7	14701.6	16327.3	17271.3	17011.6	16694.4	16524.6	16412.2
20°	11809.7	11817.2	11789.7	12049.5	13063.4	15216.0	15153.6	14541.8	14319.5	14227.1
22.5°	10671.0	10628.5	10568.6	10651.0	10923.2	12186.8	13033.4	12471.5	12394.1	12291.7
25°	9554.7	9554.7	9482.2	9564.7	9642.1	9659.6	10508.6	10738.4	10588.5	10588.5
27.5°	8588.2	8538.3	8505.8	8543.3	8440.9	7948.9	8056.3	9232.5	9130.1	9067.7
30°	7629.2	7614.3	7559.3	7609.3	7229.7	6675.3	6450.5	7791.6	7899.0	7876.5
32.5°	6298.2	6358.1	6602.9	6680.3	6031.0	5584.0	5369.2	6468.0	6897.5	6880.1
35°	4280.4	4330.3	4610.0	5534.0	4999.6	4679.9	4617.5	5144.4	5851.2	5918.6
37.5°	3408.8	3401.3	3481.2	3646.1	4018.2	3940.7	3923.3	4060.6	4772.3	4802.3
40°	2809.5	2799.5	2797.0	2662.1	2569.7	3276.5	3229.0	3146.6	3763.4	3823.4
42.5°	2265.0	2275.0	2282.5	1987.8	1853.0	2527.3	2499.8	2414.9	2951.8	3021.7
45°	1778.1	1775.6	1790.6	1480.9	1443.4	1615.8	1868.0	1800.6	2227.6	2302.5
47.5°	921.5	954.0	1156.2	1146.3	1163.7	1146.3	1413.5	1396.0	1675.7	1795.6
50°	619.3	629.3	646.8	649.3	916.5	844.1	959.0	1086.3	1173.7	1358.5
52.5°	479.5	487.0	442.0	414.6	561.9	624.3	629.3	751.7	819.1	1006.4
55°	267.2	299.7	322.2	324.6	309.7	462.0	459.5	556.9	609.3	734.2
57.5°	35.0	42.5	64.9	209.8	207.3	257.2	322.2	404.6	434.5	536.9
60°	2.5	5.0	7.5	32.5	137.4	149.8	219.8	252.2	302.2	377.1
62.5°	0.0	0.0	2.5	7.5	27.5	87.4	114.9	132.4	177.3	247.2
65°	0.0	0.0	2.5	5.0	10.0	32.5	45.0	72.4	104.9	152.3
67.5°	0.0	0.0	2.5	5.0	7.5	12.5	20.0	32.5	54.9	92.4
70°	0.0	0.0	2.5	5.0	7.5	10.0	15.0	20.0	30.0	49.9
72.5°	0.0	0.0	2.5	2.5	5.0	12.5	12.5	15.0	20.0	27.5
75°	0.0	0.0	2.5	5.0	7.5	12.5	12.5	12.5	15.0	17.5
77.5°	0.0	0.0	2.5	5.0	7.5	12.5	10.0	12.5	12.5	12.5
80°	0.0	0.0	2.5	5.0	7.5	12.5	15.0	12.5	10.0	10.0
82.5°	0.0	0.0	2.5	7.5	7.5	17.5	17.5	17.5	7.5	7.5
85°	0.0	0.0	5.0	7.5	12.5	20.0	20.0	15.0	7.5	5.0
87.5°	0.0	0.0	2.5	5.0	5.0	10.0	15.0	12.5	5.0	2.5
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°
23227.4	0°	23227.4	23227.4	23227.4	23227.4	23227.4	23227.4	23227.4	23227.4	23227.4
23010.1	2.5°	23194.9	23132.5	23249.9	23264.8	23214.9	23152.5	23007.6	22995.1	22742.9
22500.7	5°	22755.4	22653.0	22727.9	22777.9	22760.4	22693.0	22633.0	22578.1	22350.8
21674.1	7.5°	21936.3	21898.8	21933.8	21971.2	22043.7	21971.2	21946.3	21888.8	21664.1
20859.9	10°	21027.3	20957.3	21089.7	21072.2	21052.2	21032.2	20927.4	20937.4	20672.6
19751.1	12.5°	19911.0	19793.6	19921.0	19935.9	19921.0	19851.0	19733.7	19783.6	19541.4
18252.8	15°	18410.1	18397.6	18490.0	18549.9	18592.4	18517.5	18477.5	18502.5	18357.6
16324.8	17.5°	16567.1	16729.4	17031.6	17134.0	17136.5	17213.9	17191.4	17161.4	17054.1
14189.7	20°	14399.4	14711.6	15176.1	15653.1	15790.4	15725.5	15695.5	15750.5	15590.6
12184.3	22.5°	12399.1	12666.3	13205.7	13902.5	14304.5	14344.5	14337.0	14289.5	14227.1
10578.6	25°	10700.9	10938.2	11455.1	12091.9	12863.6	12978.5	12983.5	12968.5	12913.5
9122.6	27.5°	9267.5	9554.7	9839.4	10408.7	11230.4	11704.8	11644.9	11627.4	11607.4
7894.0	30°	7968.9	8331.0	8598.2	8952.8	9689.5	10331.3	10393.8	10363.8	10316.3
6877.6	32.5°	6940.0	7154.8	7494.4	7734.1	8263.6	8990.3	9230.0	9207.5	9165.1
5961.1	35°	6046.0	6130.9	6398.1	6665.3	7017.4	7721.6	8076.3	8026.3	8018.8
4857.2	37.5°	4979.6	5264.3	5411.6	5681.4	5928.6	6475.5	6965.0	6942.5	6945.0
3905.8	40°	4020.7	4185.5	4477.7	4704.9	4932.2	5331.7	5876.1	5891.1	5886.1
3024.2	42.5°	3086.7	3246.5	3553.7	3800.9	4003.2	4250.4	4769.8	4787.3	4809.8
2355.0	45°	2409.9	2512.3	2737.0	2994.3	3209.0	3358.9	3753.4	3865.8	3868.3
1825.5	47.5°	1870.5	1987.8	2147.7	2394.9	2604.7	2712.1	2999.3	3151.6	3144.1
1401.0	50°	1468.4	1575.8	1705.7	1900.4	2127.7	2212.6	2424.9	2574.7	2567.2
1056.4	52.5°	1123.8	1261.1	1376.0	1525.8	1748.1	1820.5	1972.9	2145.2	2120.2
774.2	55°	851.6	991.4	1098.8	1223.7	1426.0	1518.4	1623.2	1760.6	1765.6
599.4	57.5°	641.8	786.6	884.0	1011.4	1163.7	1266.1	1346.0	1493.4	1490.9
409.6	60°	459.5	584.4	701.7	834.1	951.5	1068.8	1123.8	1263.6	1268.6
289.7	62.5°	332.1	449.5	561.9	676.8	781.7	896.5	946.5	1056.4	1071.3
189.8	65°	232.2	314.7	444.5	531.9	649.3	734.2	799.1	894.0	911.5
112.4	67.5°	149.8	227.3	352.1	429.5	536.9	609.3	676.8	751.7	774.2
72.4	70°	89.9	172.3	262.2	344.6	442.0	507.0	571.9	636.8	649.3
35.0	72.5°	57.4	119.9	189.8	279.7	354.6	424.5	482.0	529.4	492.0
22.5	75°	32.5	82.4	149.8	219.8	287.2	354.6	402.1	427.0	342.1
15.0	77.5°	20.0	59.9	122.4	177.3	222.3	284.7	314.7	329.6	244.7
10.0	80°	12.5	45.0	102.4	144.8	144.8	209.8	244.7	257.2	177.3
7.5	82.5°	10.0	32.5	79.9	109.9	97.4	157.3	192.3	194.8	124.9
5.0	85°	7.5	25.0	49.9	72.4	67.4	109.9	112.4	124.9	82.4
5.0	87.5°	5.0	15.0	30.0	42.5	37.5	52.4	59.9	67.4	45.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°

23227.4
22545.6
22168.5
21616.6
20582.7
19471.4
18182.8
16894.2
15475.8
14107.2
12728.7
11490.1
10256.4
9052.7
7936.4
6865.1
5798.7
4734.9
3803.4
3116.6
2567.2
2122.7
1765.6
1485.9
1256.1
1066.3
906.5
771.7
639.3
457.0
324.6
229.8
164.8
114.9
74.9
40.0
0.0

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