

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: P637507

Luminaire Tested: **IFLD-M-SA4B-830-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637507
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-830-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (64) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17503.6 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

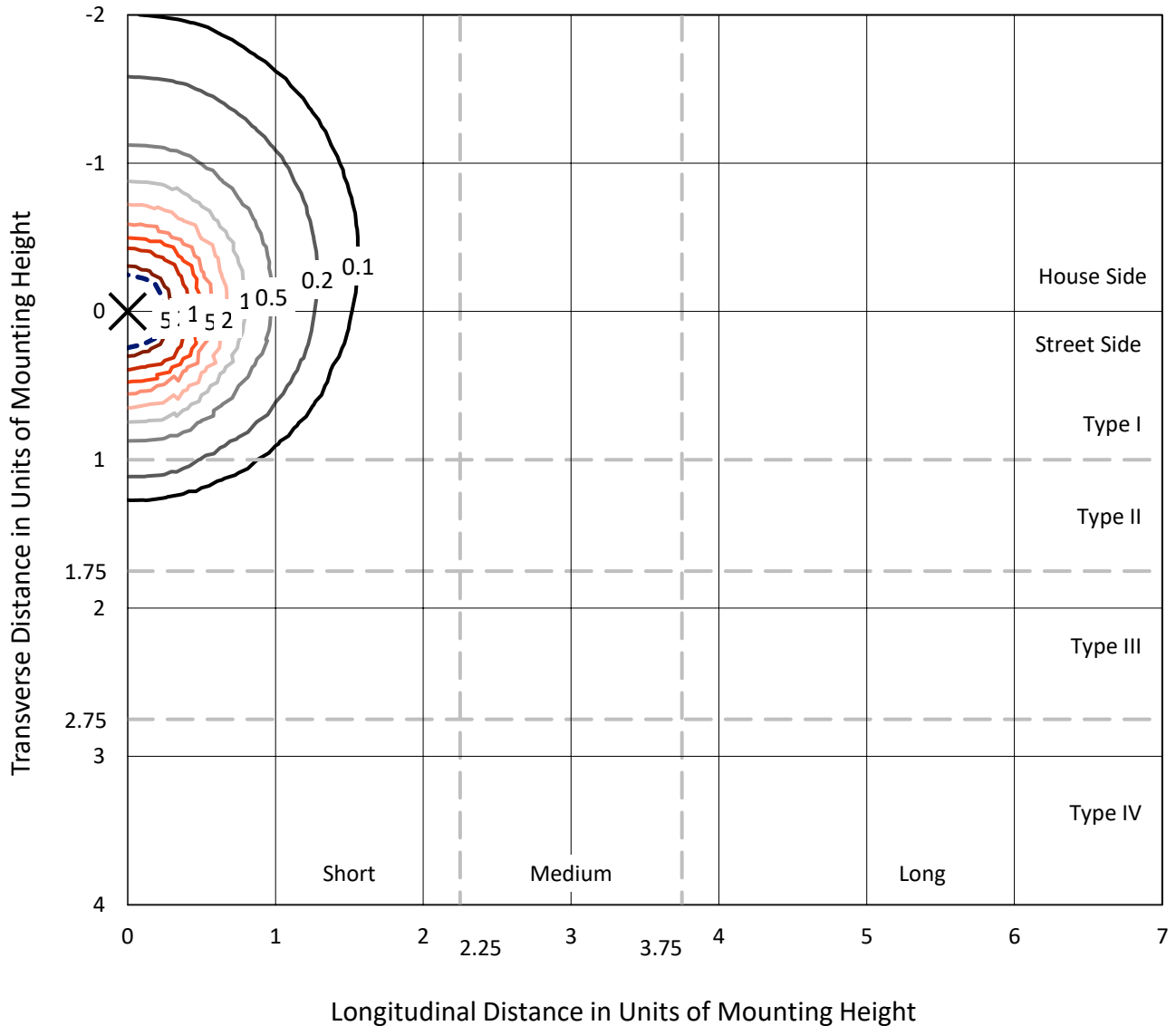
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

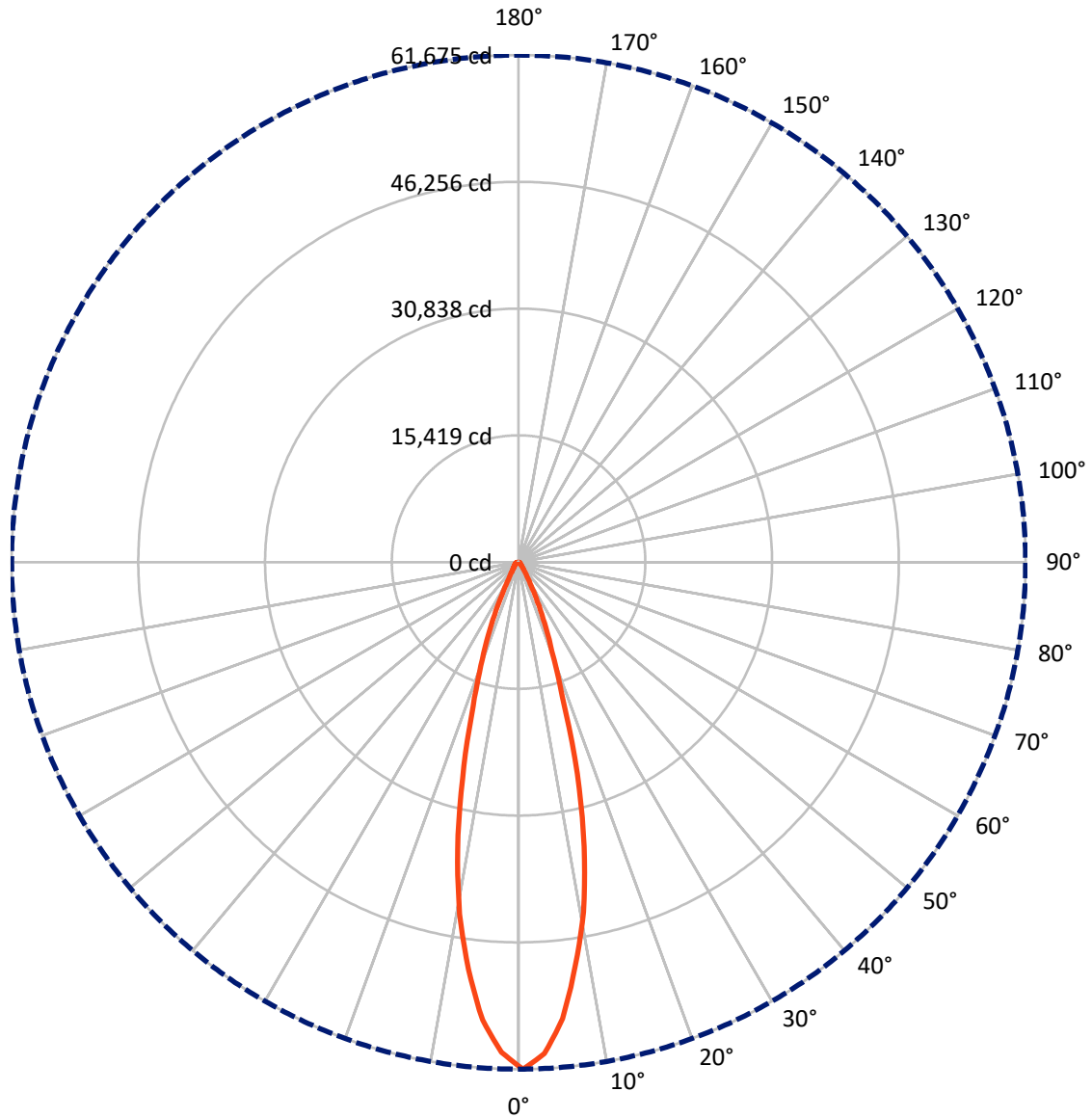
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 154.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9229.1	0.0	9229.1
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	8274.5	0.0	8274.5
	% Fixture	47.3	0.0	47.3
Total	Lumens	17503.6	0.0	17503.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4977.7	28.4
10°-20°	7538.8	43.1
20°-30°	3181.4	18.2
30°-40°	829.7	4.7
40°-50°	419.7	2.4
50°-60°	274.3	1.6
60°-70°	164.3	0.9
70°-80°	86.5	0.5
80°-90°	31.2	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°	17503.6	100.0
0°-180°	17503.6	100.0



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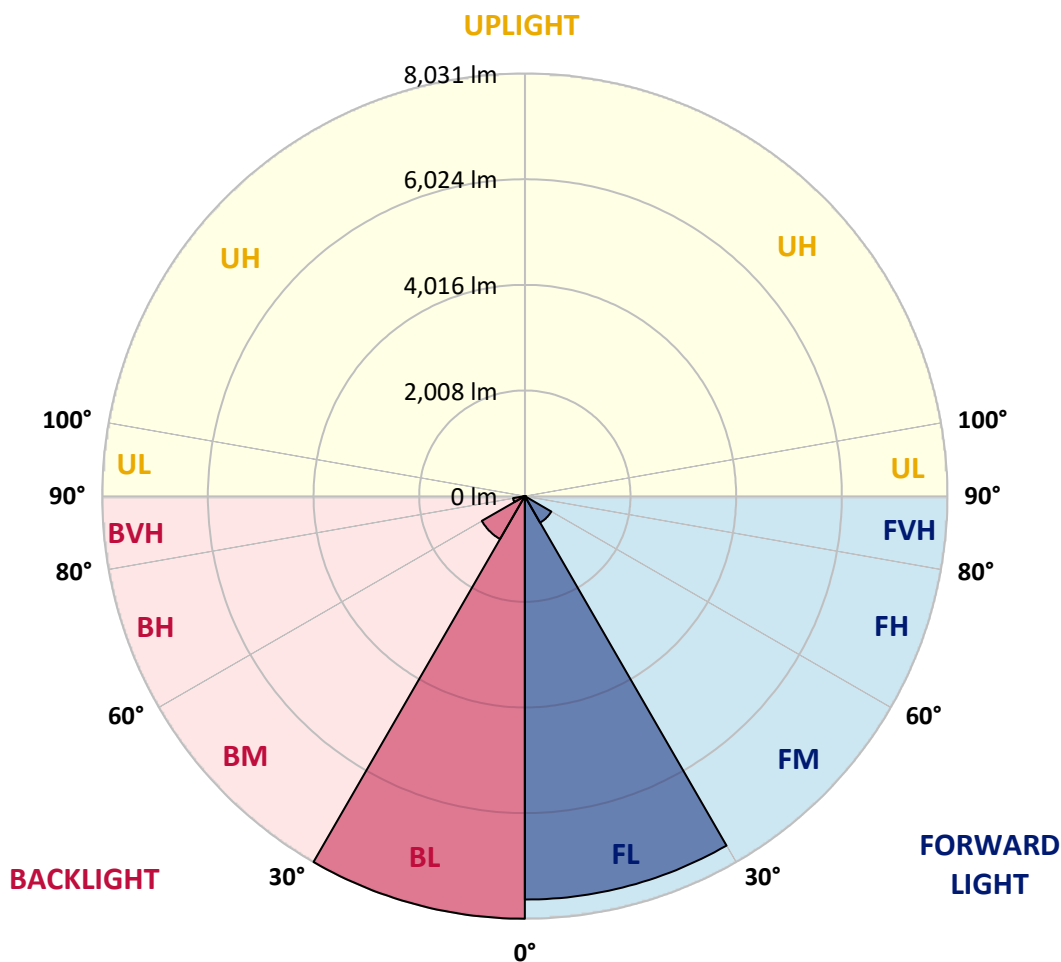
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7666.5	43.8			
FM (30°-60°)	580.6	3.3			
FH (60°-80°)	23.7	0.1			G0/660
FVH (80°-90°)	3.8	0.0			G0/10
BL (0°-30°)	8031.4	45.9	B5		
BM (30°-60°)	943.1	5.4	B1/1000		
BH (60°-80°)	227.1	1.3	B1/500		G0/660
BVH (80°-90°)	27.4	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 V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	61675.3	61675.3	61675.3	61675.3	61675.3	61675.3	61675.3	61675.3	61675.3	61675.3
2.5°	59878.7	59912.1	59788.2	60055.6	59847.2	60405.5	60128.3	60560.8	60415.3	60657.1
5°	55790.0	55735.0	55699.6	56114.4	55994.5	56594.0	56210.7	56084.9	56474.1	56403.3
7.5°	49615.8	49761.3	49678.7	49786.8	49847.8	50531.8	50748.1	50579.0	50584.9	50683.2
10°	43286.3	43072.1	42767.4	42969.9	43398.4	43697.2	43577.2	43824.9	43769.9	44003.8
12.5°	35498.3	35667.3	35496.3	35315.5	36064.4	35981.8	36190.2	36325.8	35985.8	36742.6
15°	26739.2	26827.7	27036.0	27022.3	27598.2	27714.2	27686.7	27830.2	27564.8	27690.6
17.5°	17178.1	17476.9	18037.1	18984.6	20050.0	20173.8	20142.4	20024.4	19896.7	19755.1
20°	11538.6	11507.1	11709.6	11986.7	14192.2	14776.0	14758.4	14388.8	13854.1	13751.9
22.5°	8082.9	8141.9	8114.3	8389.5	8845.6	10455.5	10256.9	9881.5	9706.5	9592.5
25°	5317.2	5295.6	5433.2	5515.7	5906.9	6103.4	6799.3	6659.7	6390.4	6419.9
27.5°	3241.4	3268.9	3320.0	3390.8	3668.0	3605.1	4002.1	4055.2	3968.7	3876.3
30°	1989.3	2008.9	2050.2	2101.3	2197.6	2128.8	2238.9	2429.6	2398.1	2333.3
32.5°	1350.4	1352.4	1381.9	1401.5	1389.7	1324.9	1360.3	1541.1	1545.0	1539.1
35°	971.0	971.0	998.6	1014.3	980.9	927.8	933.7	1045.7	1094.9	1104.7
37.5°	670.3	672.3	719.4	766.6	729.3	715.5	691.9	766.6	845.2	857.0
40°	509.1	507.1	530.7	566.1	570.0	544.5	552.4	599.5	680.1	690.0
42.5°	412.8	414.8	426.6	422.6	424.6	458.0	469.8	491.4	566.1	583.8
45°	347.9	349.9	355.8	336.1	328.3	379.4	395.1	406.9	469.8	491.4
47.5°	287.0	290.9	296.8	275.2	271.3	304.7	332.2	344.0	399.0	422.6
50°	206.4	210.3	232.0	220.2	232.0	239.8	277.2	294.9	332.2	363.7
52.5°	149.4	153.3	159.2	161.2	190.7	194.6	222.1	249.6	267.3	302.7
55°	117.9	121.9	117.9	114.0	139.6	161.2	171.0	200.5	214.3	255.5
57.5°	66.8	70.8	76.7	88.5	92.4	123.8	133.7	159.2	171.0	210.3
60°	11.8	13.8	21.6	53.1	64.9	78.6	100.2	121.9	137.6	165.1
62.5°	2.0	2.0	3.9	11.8	37.3	55.0	72.7	86.5	100.2	125.8
65°	0.0	0.0	2.0	3.9	9.8	31.5	39.3	51.1	68.8	90.4
67.5°	0.0	0.0	2.0	3.9	5.9	11.8	17.7	31.5	39.3	60.9
70°	0.0	0.0	2.0	3.9	5.9	7.9	9.8	13.8	23.6	37.3
72.5°	0.0	0.0	2.0	3.9	5.9	7.9	9.8	11.8	11.8	23.6
75°	0.0	0.0	2.0	3.9	5.9	9.8	11.8	11.8	9.8	9.8
77.5°	0.0	0.0	2.0	3.9	7.9	11.8	13.8	11.8	7.9	7.9
80°	0.0	0.0	3.9	5.9	9.8	13.8	17.7	13.8	7.9	3.9
82.5°	0.0	0.0	3.9	7.9	9.8	15.7	21.6	17.7	7.9	3.9
85°	0.0	0.0	2.0	5.9	11.8	15.7	21.6	15.7	7.9	2.0
87.5°	0.0	0.0	2.0	2.0	3.9	5.9	11.8	9.8	3.9	2.0
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°
61675.3	0°	61675.3	61675.3	61675.3	61675.3	61675.3	61675.3	61675.3	61675.3	61675.3
60199.1	2.5°	60545.0	60859.5	60924.4	60837.9	60963.7	60737.7	60564.7	60116.5	59847.2
56381.7	5°	56745.4	56698.2	57026.5	57134.6	57120.8	56947.8	56706.1	56434.8	56171.4
50492.5	7.5°	50807.0	50868.0	51166.8	51357.4	51261.1	51044.9	50877.8	50673.4	50496.5
44088.3	10°	44491.3	44072.6	44444.1	44444.1	44701.6	44090.3	44147.3	43632.3	43655.9
36728.8	12.5°	36854.6	37006.0	37066.9	37241.8	36941.1	36616.8	36219.7	36141.1	35895.4
27450.8	15°	27845.9	28278.3	27906.8	28541.7	28235.1	27897.0	27836.1	27226.7	27419.3
19910.4	17.5°	19812.1	20289.8	20439.2	20802.8	20523.7	20323.2	20069.6	19884.9	19871.1
13938.7	20°	14048.7	14528.4	14638.4	15074.8	15043.4	14980.5	14766.2	14532.3	14278.7
9488.4	22.5°	9631.9	10023.0	10388.6	10976.4	10966.6	10781.8	10760.2	10429.9	10435.8
6410.1	25°	6476.9	6762.0	6848.4	7449.9	7516.8	7497.1	7385.1	7078.4	7194.4
3915.6	27.5°	3919.6	4169.2	4462.1	4674.4	4874.9	4843.4	4731.4	4560.4	4485.7
2352.9	30°	2415.8	2527.9	2636.0	2891.5	3011.4	3074.3	3021.3	2862.0	2873.8
1549.0	32.5°	1582.4	1676.7	1755.4	1916.5	1979.4	2095.4	2073.8	2040.4	2001.1
1114.5	35°	1153.9	1222.7	1275.7	1350.4	1431.0	1529.3	1545.0	1531.3	1515.5
861.0	37.5°	880.6	951.4	1012.3	1043.8	1106.7	1183.3	1226.6	1224.6	1212.8
701.7	40°	715.5	768.6	823.6	864.9	908.1	965.2	1018.2	1024.1	1024.1
589.7	42.5°	597.6	642.8	697.8	741.1	772.5	825.6	880.6	884.6	880.6
499.3	45°	511.1	550.4	603.5	654.6	680.1	719.4	772.5	784.3	776.4
428.5	47.5°	444.2	479.6	524.8	579.9	607.4	642.8	691.9	705.7	703.7
369.5	50°	381.3	422.6	467.8	513.0	548.4	581.8	629.0	644.7	638.8
314.5	52.5°	336.1	373.5	412.8	461.9	503.2	532.7	570.0	597.6	589.7
265.4	55°	281.1	326.3	367.6	408.9	460.0	491.4	526.8	560.2	552.4
224.1	57.5°	243.7	281.1	328.3	365.6	416.7	454.1	489.5	524.8	522.9
182.8	60°	204.4	243.7	289.0	328.3	375.4	416.7	452.1	491.4	495.4
137.6	62.5°	161.2	208.4	247.7	292.9	340.1	385.3	416.7	456.0	461.9
104.2	65°	121.9	171.0	214.3	257.5	304.7	353.8	381.3	414.8	420.7
76.7	67.5°	90.4	131.7	182.8	222.1	271.3	318.4	344.0	371.5	381.3
47.2	70°	68.8	100.2	153.3	190.7	241.8	279.1	306.6	330.2	338.1
31.5	72.5°	43.2	78.6	123.8	163.2	208.4	241.8	261.4	275.2	287.0
17.7	75°	29.5	60.9	100.2	139.6	173.0	198.5	216.2	228.0	237.8
7.9	77.5°	17.7	47.2	82.6	116.0	137.6	157.3	174.9	182.8	188.7
5.9	80°	9.8	35.4	68.8	94.4	108.1	121.9	135.6	145.5	149.4
3.9	82.5°	5.9	27.5	55.0	72.7	78.6	92.4	106.1	112.0	112.0
2.0	85°	3.9	19.7	37.3	53.1	57.0	66.8	70.8	74.7	78.6
2.0	87.5°	3.9	11.8	23.6	29.5	31.5	35.4	37.3	41.3	45.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
61675.3
59648.7
55876.5
49896.9
43425.9
35671.3
27226.7
19505.5
14168.7
10321.8
7011.6
4420.8
2822.7
1987.3
1509.6
1206.9
1012.3
876.7
776.4
699.8
634.9
587.7
556.3
524.8
497.3
465.9
426.6
385.3
342.0
285.0
235.9
186.7
145.5
110.1
76.7
43.2
0.0

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