

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: P637352

Luminaire Tested: **IFLD-S-SA3B-735-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637352
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-735-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (48) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16186.7 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

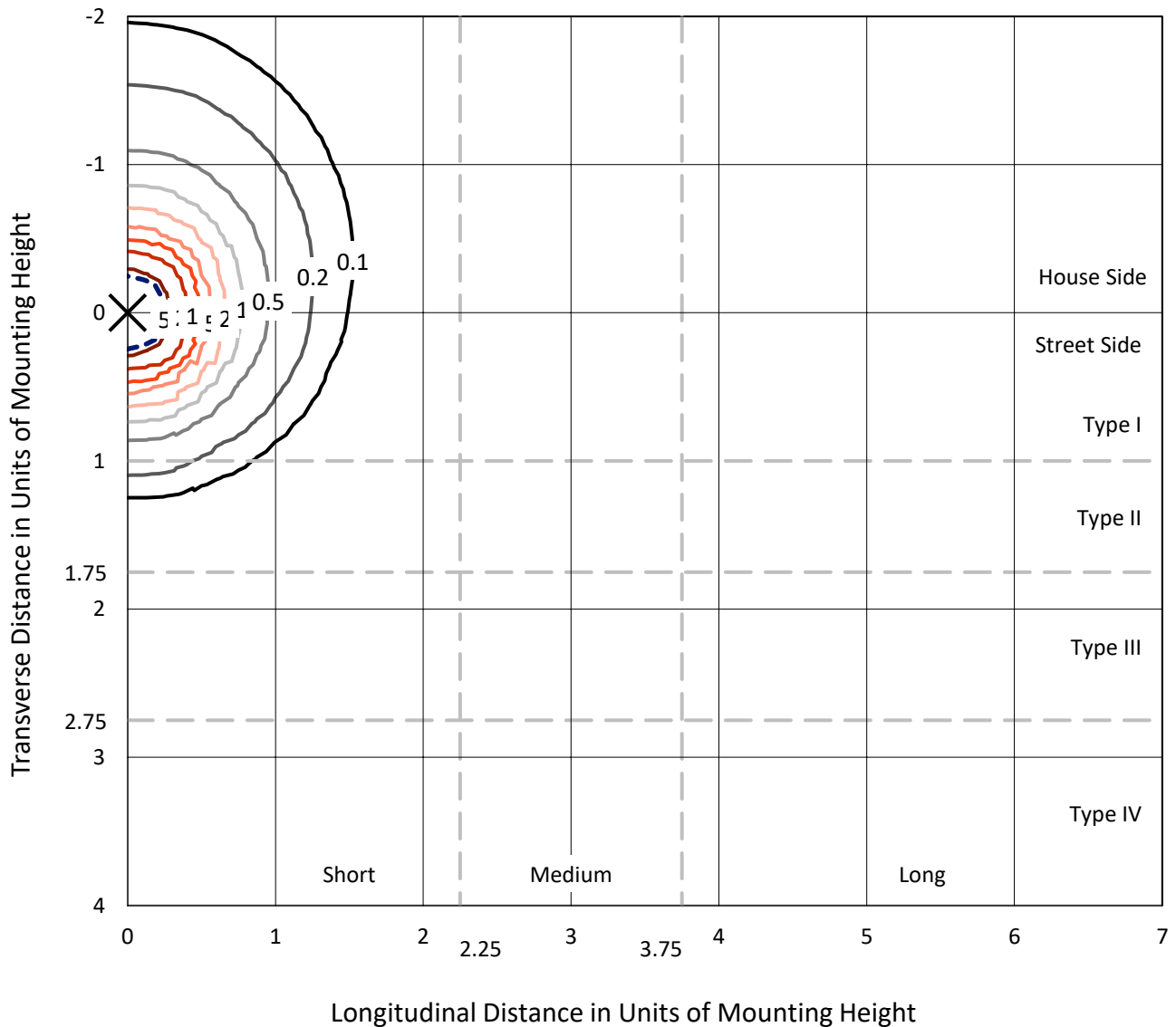
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

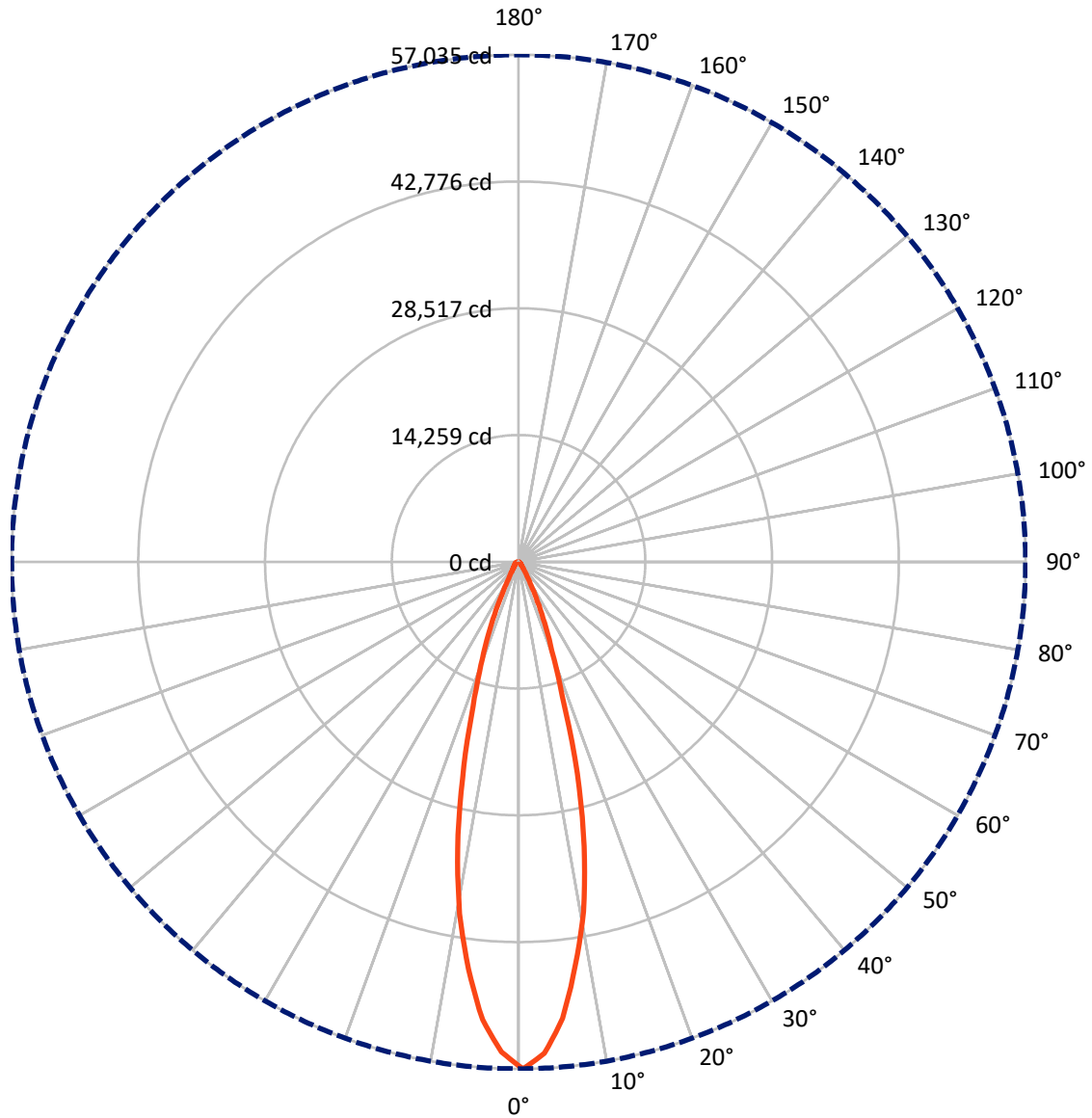
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 142.6 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	8534.7	0.0	8534.7
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	7652.0	0.0	7652.0
	% Fixture	47.3	0.0	47.3
Total	Lumens	16186.7	0.0	16186.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4603.2	28.4
10°-20°	6971.5	43.1
20°-30°	2942.0	18.2
30°-40°	767.3	4.7
40°-50°	388.1	2.4
50°-60°	253.7	1.6
60°-70°	152.0	0.9
70°-80°	80.0	0.5
80°-90°	28.9	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°	16186.7	100.0
0°-180°	16186.7	100.0

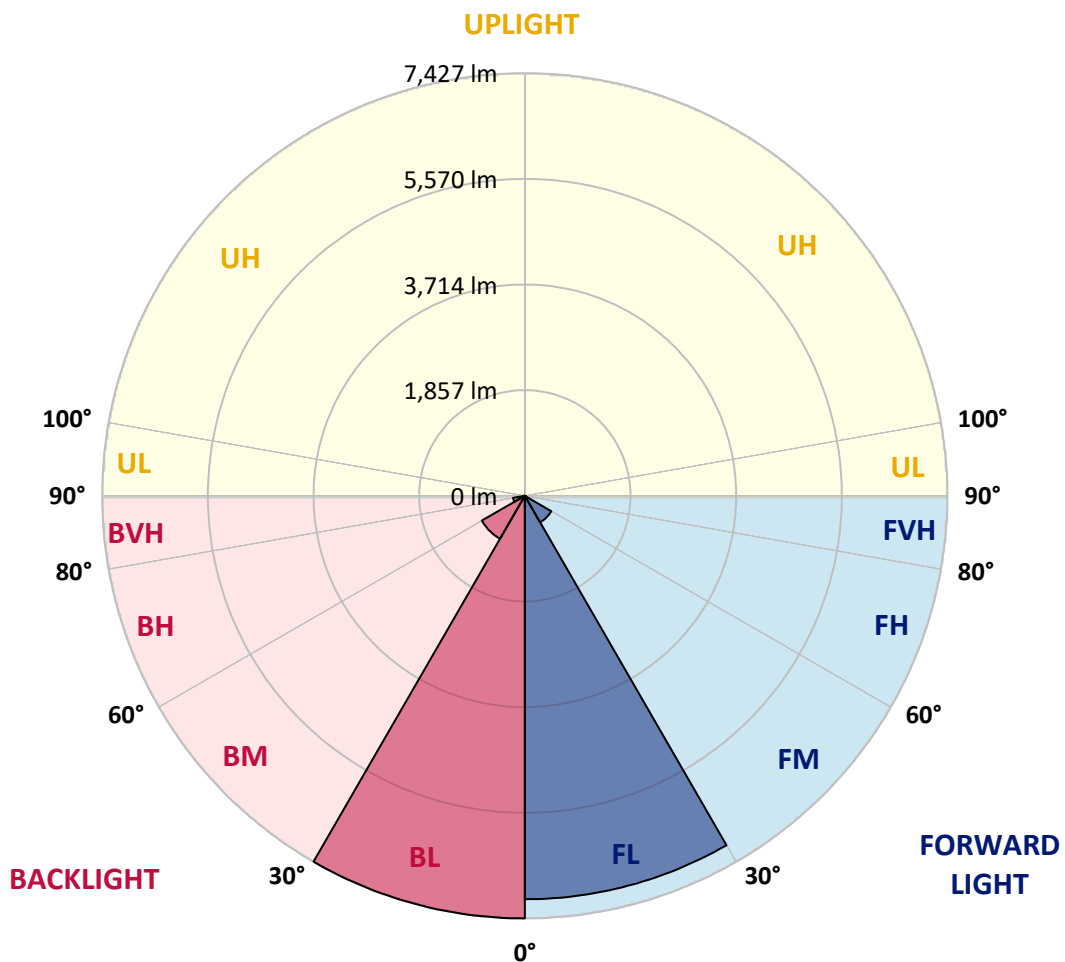


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7089.7	43.8			
FM (30°-60°)	536.9	3.3			
FH (60°-80°)	21.9	0.1			G0/660
FVH (80°-90°)	3.5	0.0			G0/10
BL (0°-30°)	7427.1	45.9	B5		
BM (30°-60°)	872.2	5.4	B1/1000		
BH (60°-80°)	210.1	1.3	B1/500		G0/660
BVH (80°-90°)	25.4	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°	57034.8	57034.8	57034.8	57034.8	57034.8	57034.8	57034.8	57034.8	57034.8	57034.8
2.5°	55373.4	55404.3	55289.8	55537.0	55344.3	55860.6	55604.2	56004.2	55869.6	56093.2
5°	51592.4	51541.5	51508.8	51892.3	51781.4	52335.9	51981.4	51865.1	52225.0	52159.5
7.5°	45882.7	46017.2	45940.9	46040.9	46097.2	46729.8	46929.8	46773.4	46778.9	46869.8
10°	40029.5	39831.3	39549.6	39736.8	40133.1	40409.4	40298.5	40527.5	40476.6	40692.9
12.5°	32827.4	32983.7	32825.6	32658.3	33350.9	33274.6	33467.3	33592.7	33278.2	33978.0
15°	24727.3	24809.1	25001.8	24989.1	25521.7	25629.0	25603.5	25736.2	25490.8	25607.1
17.5°	15885.6	16161.9	16680.0	17556.2	18541.4	18655.9	18626.8	18517.8	18399.6	18268.7
20°	10670.4	10641.3	10828.5	11084.9	13124.4	13664.3	13647.9	13306.2	12811.8	12717.2
22.5°	7474.7	7529.3	7503.8	7758.3	8180.0	9668.8	9485.2	9138.0	8976.2	8870.8
25°	4917.1	4897.1	5024.4	5100.7	5462.4	5644.2	6287.7	6158.7	5909.6	5936.9
27.5°	2997.5	3023.0	3070.2	3135.7	3392.0	3333.8	3701.0	3750.1	3670.1	3584.7
30°	1839.6	1857.8	1896.0	1943.2	2032.3	1968.7	2070.5	2246.8	2217.7	2157.7
32.5°	1248.8	1250.6	1277.9	1296.1	1285.2	1225.2	1257.9	1425.1	1428.8	1423.3
35°	898.0	898.0	923.4	938.0	907.1	858.0	863.4	967.1	1012.5	1021.6
37.5°	619.9	621.7	665.3	708.9	674.4	661.7	639.9	708.9	781.6	792.6
40°	470.8	469.0	490.8	523.5	527.2	503.5	510.8	554.4	629.0	638.0
42.5°	381.7	383.6	394.5	390.8	392.6	423.5	434.5	454.4	523.5	539.9
45°	321.7	323.6	329.0	310.8	303.6	350.8	365.4	376.3	434.5	454.4
47.5°	265.4	269.0	274.5	254.5	250.9	281.8	307.2	318.1	369.0	390.8
50°	190.9	194.5	214.5	203.6	214.5	221.8	256.3	272.7	307.2	336.3
52.5°	138.2	141.8	147.2	149.1	176.3	180.0	205.4	230.9	247.2	279.9
55°	109.1	112.7	109.1	105.4	129.1	149.1	158.1	185.4	198.1	236.3
57.5°	61.8	65.4	70.9	81.8	85.4	114.5	123.6	147.2	158.1	194.5
60°	10.9	12.7	20.0	49.1	60.0	72.7	92.7	112.7	127.2	152.7
62.5°	1.8	1.8	3.6	10.9	34.5	50.9	67.3	80.0	92.7	116.3
65°	0.0	0.0	1.8	3.6	9.1	29.1	36.4	47.3	63.6	83.6
67.5°	0.0	0.0	1.8	3.6	5.5	10.9	16.4	29.1	36.4	56.4
70°	0.0	0.0	1.8	3.6	5.5	7.3	9.1	12.7	21.8	34.5
72.5°	0.0	0.0	1.8	3.6	5.5	7.3	9.1	10.9	10.9	21.8
75°	0.0	0.0	1.8	3.6	5.5	9.1	10.9	10.9	9.1	9.1
77.5°	0.0	0.0	1.8	3.6	7.3	10.9	12.7	10.9	7.3	7.3
80°	0.0	0.0	3.6	5.5	9.1	12.7	16.4	12.7	7.3	3.6
82.5°	0.0	0.0	3.6	7.3	9.1	14.5	20.0	16.4	7.3	3.6
85°	0.0	0.0	1.8	5.5	10.9	14.5	20.0	14.5	7.3	1.8
87.5°	0.0	0.0	1.8	1.8	3.6	5.5	10.9	9.1	3.6	1.8
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°
57034.8	0°	57034.8	57034.8	57034.8	57034.8	57034.8	57034.8	57034.8	57034.8	57034.8
55669.7	2.5°	55989.6	56280.5	56340.4	56260.5	56376.8	56167.8	56007.8	55593.3	55344.3
52139.5	5°	52475.8	52432.2	52735.8	52835.8	52823.0	52663.1	52439.5	52188.6	51945.0
46693.5	7.5°	46984.3	47040.7	47317.0	47493.3	47404.2	47204.3	47049.7	46860.7	46697.1
40771.1	10°	41143.8	40756.6	41100.1	41100.1	41338.3	40772.9	40825.6	40349.4	40371.2
33965.3	12.5°	34081.7	34221.6	34278.0	34439.8	34161.6	33861.7	33494.5	33421.8	33194.6
25385.4	15°	25750.8	26150.7	25807.1	26394.2	26110.7	25798.0	25741.7	25178.1	25356.3
18412.4	17.5°	18321.5	18763.2	18901.3	19237.6	18979.5	18794.1	18559.6	18388.7	18376.0
12889.9	20°	12991.7	13435.3	13537.0	13940.6	13911.5	13853.3	13655.2	13438.9	13204.4
8774.5	22.5°	8907.1	9268.9	9607.0	10150.5	10141.4	9970.6	9950.6	9645.2	9650.6
5927.8	25°	5989.6	6253.2	6333.2	6889.4	6951.2	6933.0	6829.4	6545.8	6653.1
3621.0	27.5°	3624.7	3855.5	4126.4	4322.7	4508.1	4479.0	4375.4	4217.3	4148.2
2175.9	30°	2234.1	2337.7	2437.7	2674.0	2784.8	2843.0	2793.9	2646.7	2657.6
1432.4	32.5°	1463.3	1550.6	1623.3	1772.3	1830.5	1937.8	1917.8	1886.9	1850.5
1030.7	35°	1067.0	1130.7	1179.7	1248.8	1323.3	1414.2	1428.8	1416.1	1401.5
796.2	37.5°	814.4	879.8	936.2	965.2	1023.4	1094.3	1134.3	1132.5	1121.6
648.9	40°	661.7	710.8	761.7	799.8	839.8	892.5	941.6	947.1	947.1
545.3	42.5°	552.6	594.4	645.3	685.3	714.4	763.5	814.4	818.0	814.4
461.7	45°	472.6	509.0	558.1	605.3	629.0	665.3	714.4	725.3	718.0
396.3	47.5°	410.8	443.5	485.3	536.2	561.7	594.4	639.9	652.6	650.8
341.7	50°	352.7	390.8	432.6	474.4	507.2	538.1	581.7	596.2	590.8
290.8	52.5°	310.8	345.4	381.7	427.2	465.4	492.6	527.2	552.6	545.3
245.4	55°	259.9	301.8	339.9	378.1	425.4	454.4	487.2	518.1	510.8
207.2	57.5°	225.4	259.9	303.6	338.1	385.4	419.9	452.6	485.3	483.5
169.1	60°	189.0	225.4	267.2	303.6	347.2	385.4	418.1	454.4	458.1
127.2	62.5°	149.1	192.7	229.0	270.9	314.5	356.3	385.4	421.7	427.2
96.3	65°	112.7	158.1	198.1	238.1	281.8	327.2	352.7	383.6	389.0
70.9	67.5°	83.6	121.8	169.1	205.4	250.9	294.5	318.1	343.6	352.7
43.6	70°	63.6	92.7	141.8	176.3	223.6	258.1	283.6	305.4	312.7
29.1	72.5°	40.0	72.7	114.5	150.9	192.7	223.6	241.8	254.5	265.4
16.4	75°	27.3	56.4	92.7	129.1	160.0	183.6	200.0	210.9	220.0
7.3	77.5°	16.4	43.6	76.3	107.2	127.2	145.4	161.8	169.1	174.5
5.5	80°	9.1	32.7	63.6	87.3	100.0	112.7	125.4	134.5	138.2
3.6	82.5°	5.5	25.4	50.9	67.3	72.7	85.4	98.2	103.6	103.6
1.8	85°	3.6	18.2	34.5	49.1	52.7	61.8	65.4	69.1	72.7
1.8	87.5°	3.6	10.9	21.8	27.3	29.1	32.7	34.5	38.2	41.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
57034.8
55160.7
51672.4
46142.7
40158.5
32987.4
25178.1
18037.9
13102.6
9545.2
6484.0
4088.2
2610.3
1837.8
1396.1
1116.1
936.2
810.7
718.0
647.1
587.1
543.5
514.4
485.3
459.9
430.8
394.5
356.3
316.3
263.6
218.1
172.7
134.5
101.8
70.9
40.0
0.0

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