

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: P637500

Luminaire Tested: **IFLD-S-SA3E-830-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637500
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-830-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (48) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20671.8 lumens
Efficiency: N/A
Efficacy: 89.1 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

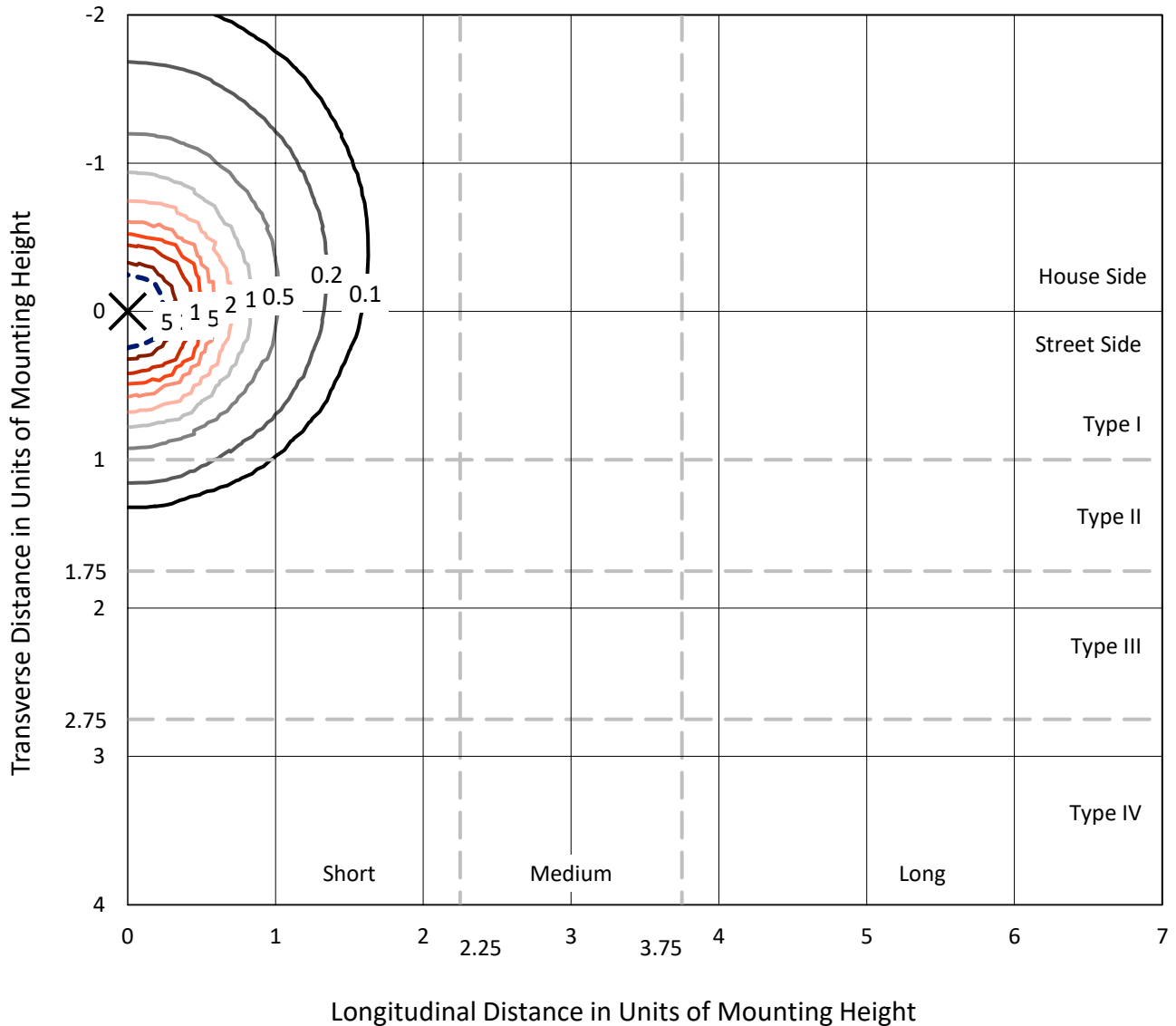
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

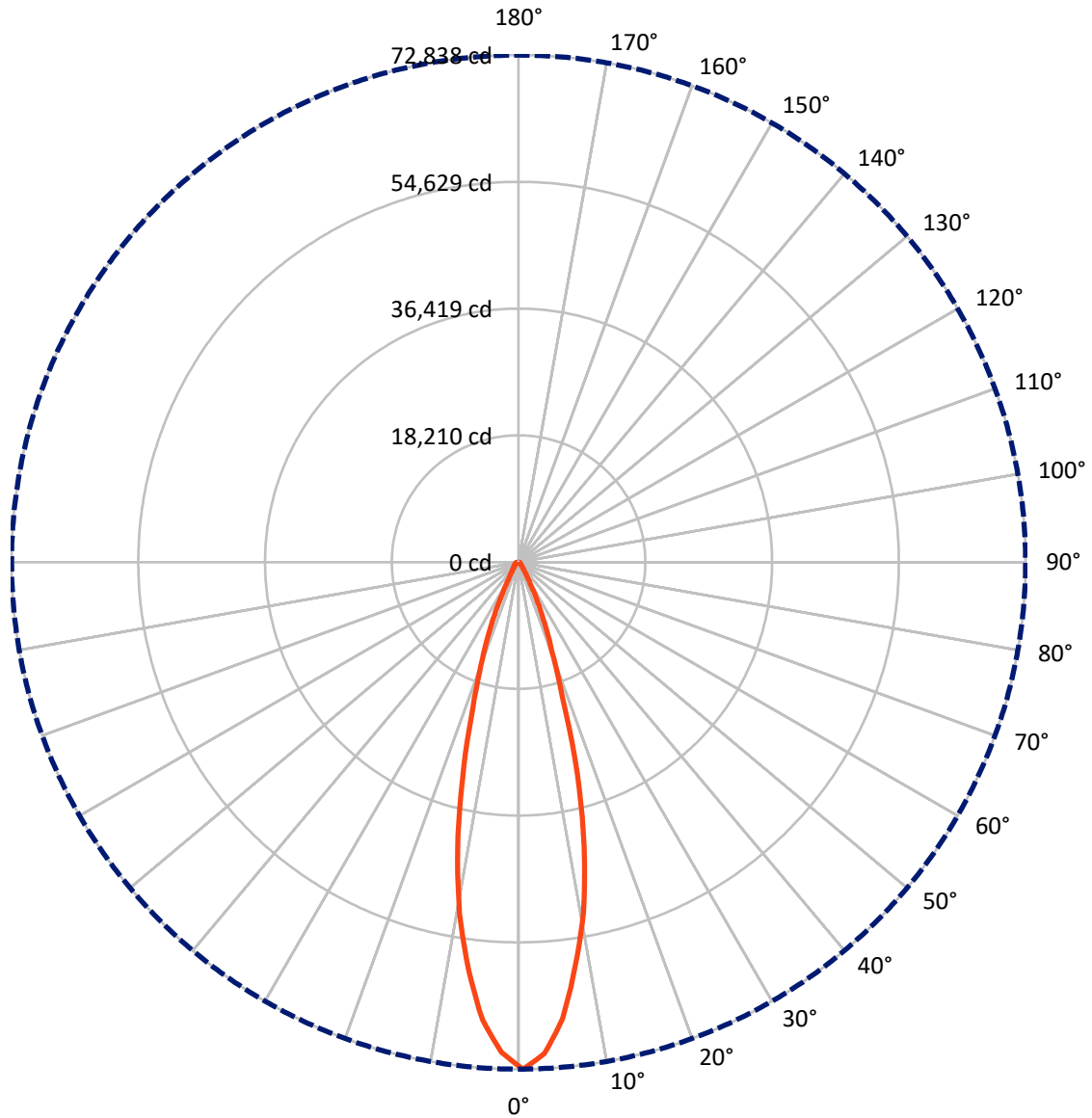
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 182.1 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	10899.6	0.0	10899.6
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	9772.2	0.0	9772.2
	% Fixture	47.3	0.0	47.3
Total	Lumens	20671.8	0.0	20671.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5878.7	28.4
10°-20°	8903.3	43.1
20°-30°	3757.2	18.2
30°-40°	979.9	4.7
40°-50°	495.6	2.4
50°-60°	324.0	1.6
60°-70°	194.1	0.9
70°-80°	102.1	0.5
80°-90°	36.9	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°	20671.8	100.0
0°-180°	20671.8	100.0



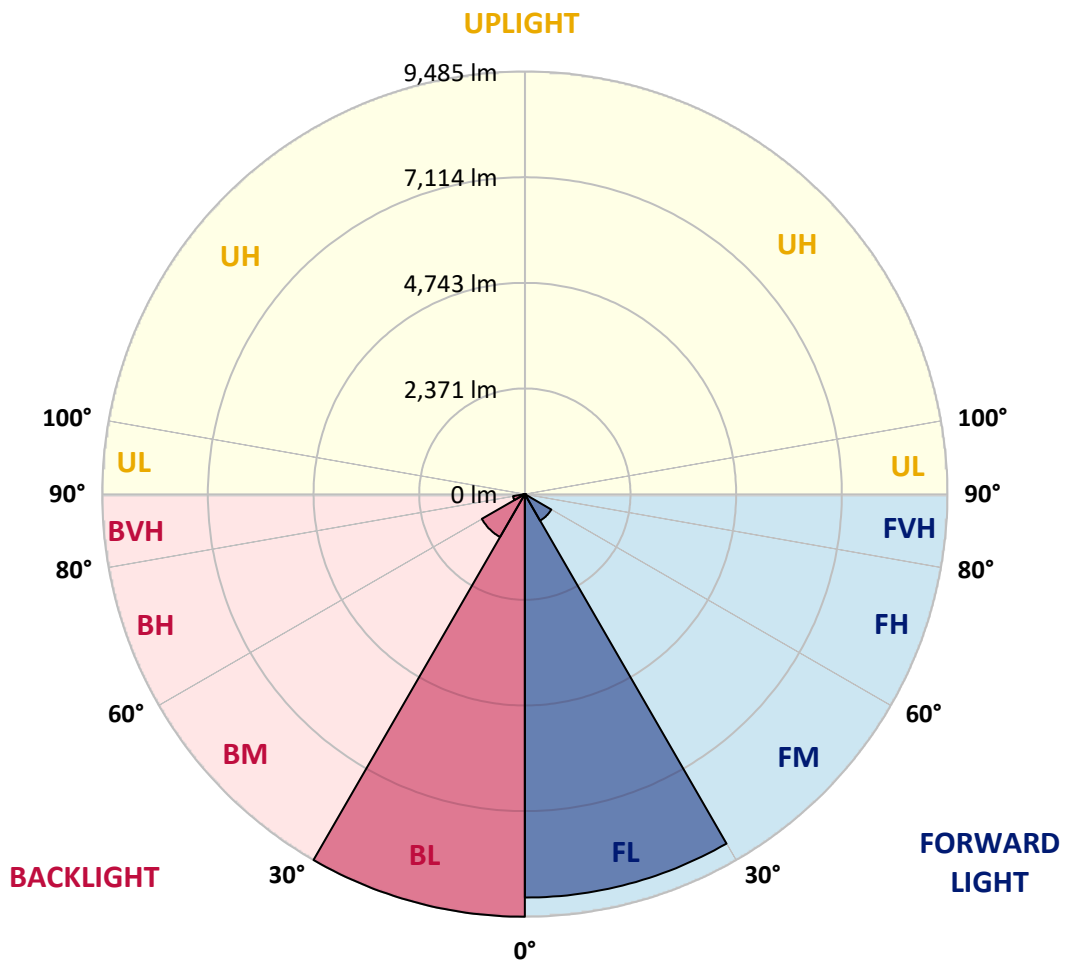
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9054.1	43.8			
FM (30°-60°)	685.7	3.3			
FH (60°-80°)	27.9	0.1			G0/660
FVH (80°-90°)	4.5	0.0			G0/10
BL (0°-30°)	9485.1	45.9	B5		
BM (30°-60°)	1113.8	5.4	B2/2500		
BH (60°-80°)	268.3	1.3	B1/500		G0/660
BVH (80°-90°)	32.4	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°	72838.4	72838.4	72838.4	72838.4	72838.4	72838.4	72838.4	72838.4	72838.4	72838.4
2.5°	70716.6	70756.1	70609.8	70925.5	70679.5	71338.8	71011.4	71522.2	71350.4	71635.9
5°	65887.9	65822.9	65781.2	66271.0	66129.4	66837.4	66384.7	66236.2	66695.8	66612.2
7.5°	58596.2	58768.0	58670.5	58798.2	58870.1	59678.0	59933.4	59733.7	59740.7	59856.8
10°	51121.1	50868.0	50508.2	50747.3	51253.4	51606.3	51464.7	51757.2	51692.2	51968.4
12.5°	41923.4	42123.1	41921.1	41707.5	42592.0	42494.5	42740.6	42900.8	42499.1	43392.9
15°	31579.0	31683.4	31929.5	31913.2	32593.4	32730.4	32697.9	32867.4	32554.0	32702.5
17.5°	20287.3	20640.2	21301.8	22420.8	23679.0	23825.2	23788.1	23648.8	23497.9	23330.8
20°	13627.0	13589.9	13829.0	14156.3	16761.0	17450.5	17429.6	16993.2	16361.7	16241.0
22.5°	9545.9	9615.5	9583.0	9908.0	10446.6	12347.9	12113.4	11670.0	11463.4	11328.8
25°	6279.6	6254.0	6416.5	6514.0	6976.0	7208.2	8030.0	7865.1	7547.1	7581.9
27.5°	3828.1	3860.6	3921.0	4004.5	4331.9	4257.6	4726.5	4789.2	4687.0	4577.9
30°	2349.3	2372.5	2421.3	2481.7	2595.4	2514.2	2644.2	2869.3	2832.2	2755.6
32.5°	1594.8	1597.2	1632.0	1655.2	1641.3	1564.7	1606.5	1820.0	1824.7	1817.7
35°	1146.8	1146.8	1179.3	1197.9	1158.4	1095.7	1102.7	1235.0	1293.1	1304.7
37.5°	791.6	793.9	849.7	905.4	861.3	845.0	817.2	905.4	998.2	1012.2
40°	601.3	598.9	626.8	668.6	673.2	643.0	652.3	708.0	803.2	814.8
42.5°	487.5	489.8	503.8	499.1	501.4	540.9	554.8	580.4	668.6	689.5
45°	410.9	413.2	420.2	397.0	387.7	448.0	466.6	480.5	554.8	580.4
47.5°	338.9	343.6	350.5	325.0	320.4	359.8	392.3	406.3	471.3	499.1
50°	243.8	248.4	273.9	260.0	273.9	283.2	327.3	348.2	392.3	429.5
52.5°	176.4	181.1	188.0	190.4	225.2	229.8	262.3	294.8	315.7	357.5
55°	139.3	143.9	139.3	134.6	164.8	190.4	202.0	236.8	253.0	301.8
57.5°	78.9	83.6	90.5	104.5	109.1	146.3	157.9	188.0	202.0	248.4
60°	13.9	16.3	25.5	62.7	76.6	92.9	118.4	143.9	162.5	195.0
62.5°	2.3	2.3	4.6	13.9	44.1	65.0	85.9	102.1	118.4	148.6
65°	0.0	0.0	2.3	4.6	11.6	37.1	46.4	60.4	81.3	106.8
67.5°	0.0	0.0	2.3	4.6	7.0	13.9	20.9	37.1	46.4	72.0
70°	0.0	0.0	2.3	4.6	7.0	9.3	11.6	16.3	27.9	44.1
72.5°	0.0	0.0	2.3	4.6	7.0	9.3	11.6	13.9	13.9	27.9
75°	0.0	0.0	2.3	4.6	7.0	11.6	13.9	13.9	11.6	11.6
77.5°	0.0	0.0	2.3	4.6	9.3	13.9	16.3	13.9	9.3	9.3
80°	0.0	0.0	4.6	7.0	11.6	16.3	20.9	16.3	9.3	4.6
82.5°	0.0	0.0	4.6	9.3	11.6	18.6	25.5	20.9	9.3	4.6
85°	0.0	0.0	2.3	7.0	13.9	18.6	25.5	18.6	9.3	2.3
87.5°	0.0	0.0	2.3	2.3	4.6	7.0	13.9	11.6	4.6	2.3
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°
72838.4	0°	72838.4	72838.4	72838.4	72838.4	72838.4	72838.4	72838.4	72838.4	72838.4
71095.0	2.5°	71503.6	71875.0	71951.6	71849.5	71998.1	71731.1	71526.8	70997.5	70679.5
66586.7	5°	67016.2	66960.5	67348.2	67475.8	67459.6	67255.3	66969.8	66649.4	66338.3
59631.6	7.5°	60003.0	60075.0	60427.9	60653.0	60539.3	60283.9	60086.6	59845.2	59636.2
52068.2	10°	52544.1	52049.7	52488.4	52488.4	52792.5	52070.6	52137.9	51529.7	51557.5
43376.7	12.5°	43525.2	43704.0	43776.0	43982.6	43627.4	43244.3	42775.4	42682.5	42392.4
32419.3	15°	32885.9	33396.7	32957.9	33707.7	33345.6	32946.3	32874.3	32154.7	32382.2
23514.2	17.5°	23398.1	23962.2	24138.6	24568.1	24238.5	24001.7	23702.2	23484.0	23467.7
16461.5	20°	16591.5	17158.0	17288.0	17803.4	17766.2	17691.9	17438.9	17162.6	16863.2
11205.7	22.5°	11375.2	11837.2	12269.0	12963.1	12951.5	12733.3	12707.7	12317.7	12324.7
7570.3	25°	7649.2	7985.9	8088.0	8798.4	8877.3	8854.1	8721.8	8359.6	8496.6
4624.4	27.5°	4629.0	4923.8	5269.7	5520.5	5757.2	5720.1	5587.8	5385.8	5297.6
2778.8	30°	2853.1	2985.4	3113.1	3414.9	3556.5	3630.8	3568.1	3380.1	3394.0
1829.3	32.5°	1868.8	1980.2	2073.1	2263.4	2337.7	2474.7	2449.2	2409.7	2363.3
1316.3	35°	1362.7	1444.0	1506.6	1594.8	1690.0	1806.1	1824.7	1808.4	1789.9
1016.8	37.5°	1040.0	1123.6	1195.6	1232.7	1307.0	1397.5	1448.6	1446.3	1432.3
828.8	40°	845.0	907.7	972.7	1021.4	1072.5	1139.8	1202.5	1209.5	1209.5
696.4	42.5°	705.7	759.1	824.1	875.2	912.3	975.0	1040.0	1044.7	1040.0
589.7	45°	603.6	650.0	712.7	773.0	803.2	849.7	912.3	926.3	917.0
506.1	47.5°	524.7	566.4	619.8	684.8	717.3	759.1	817.2	833.4	831.1
436.4	50°	450.4	499.1	552.5	605.9	647.7	687.2	742.9	761.4	754.5
371.4	52.5°	397.0	441.1	487.5	545.5	594.3	629.1	673.2	705.7	696.4
313.4	55°	332.0	385.4	434.1	482.9	543.2	580.4	622.2	661.6	652.3
264.6	57.5°	287.9	332.0	387.7	431.8	492.2	536.3	578.0	619.8	617.5
215.9	60°	241.4	287.9	341.3	387.7	443.4	492.2	533.9	580.4	585.0
162.5	62.5°	190.4	246.1	292.5	345.9	401.6	455.0	492.2	538.6	545.5
123.0	65°	143.9	202.0	253.0	304.1	359.8	417.9	450.4	489.8	496.8
90.5	67.5°	106.8	155.5	215.9	262.3	320.4	376.1	406.3	438.8	450.4
55.7	70°	81.3	118.4	181.1	225.2	285.5	329.6	362.1	390.0	399.3
37.1	72.5°	51.1	92.9	146.3	192.7	246.1	285.5	308.8	325.0	338.9
20.9	75°	34.8	72.0	118.4	164.8	204.3	234.5	255.4	269.3	280.9
9.3	77.5°	20.9	55.7	97.5	137.0	162.5	185.7	206.6	215.9	222.9
7.0	80°	11.6	41.8	81.3	111.4	127.7	143.9	160.2	171.8	176.4
4.6	82.5°	7.0	32.5	65.0	85.9	92.9	109.1	125.4	132.3	132.3
2.3	85°	4.6	23.2	44.1	62.7	67.3	78.9	83.6	88.2	92.9
2.3	87.5°	4.6	13.9	27.9	34.8	37.1	41.8	44.1	48.8	53.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
72838.4
70445.0
65990.1
58928.2
51285.9
42127.7
32154.7
23035.9
16733.2
12190.0
8280.7
5221.0
3333.6
2347.0
1782.9
1425.4
1195.6
1035.4
917.0
826.4
749.8
694.1
657.0
619.8
587.3
550.2
503.8
455.0
403.9
336.6
278.6
220.5
171.8
130.0
90.5
51.1
0.0

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