

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: P637314

Luminaire Tested: **IFLD-L-SA8B-727-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637314
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-727-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32827.4 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

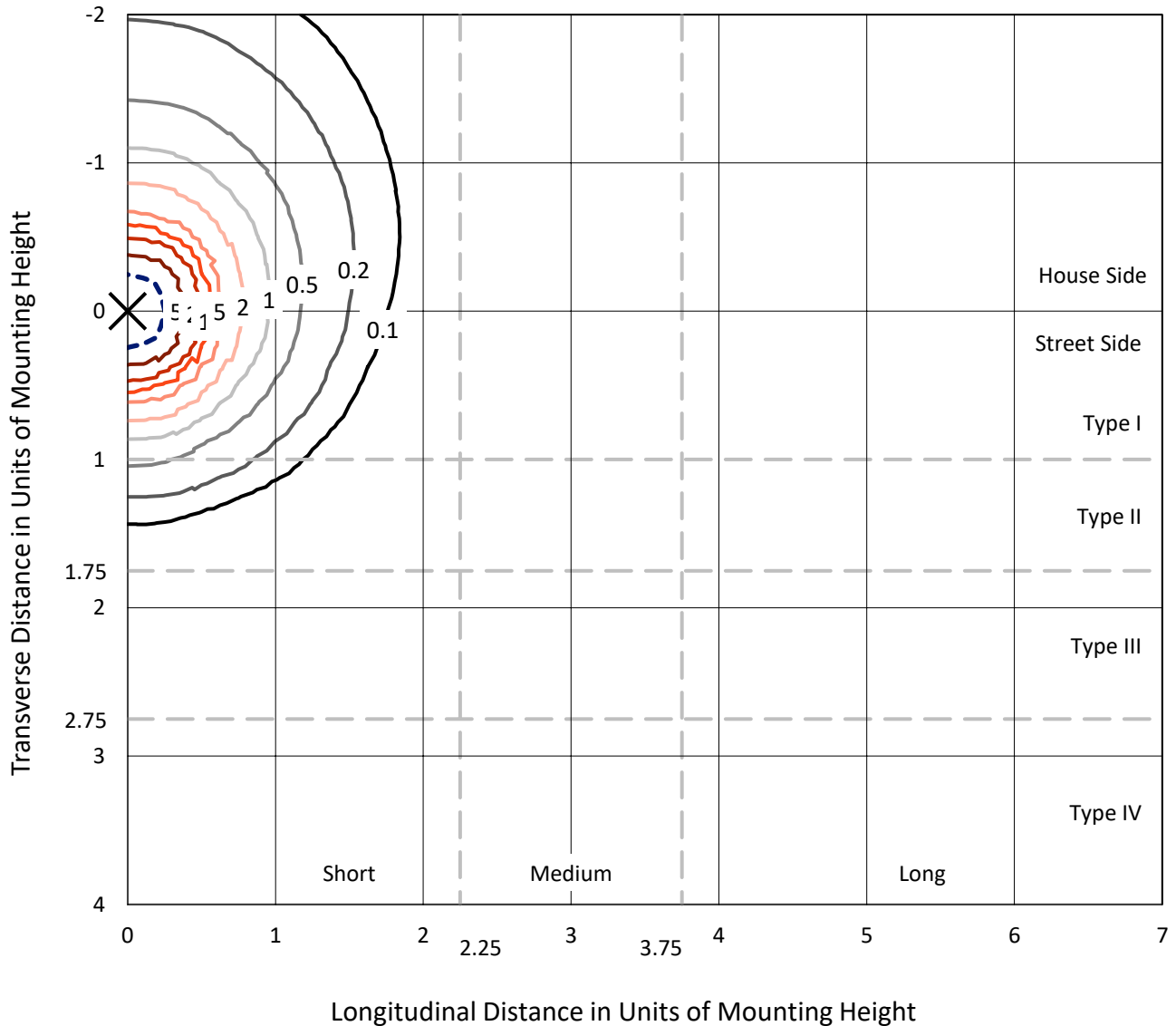
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

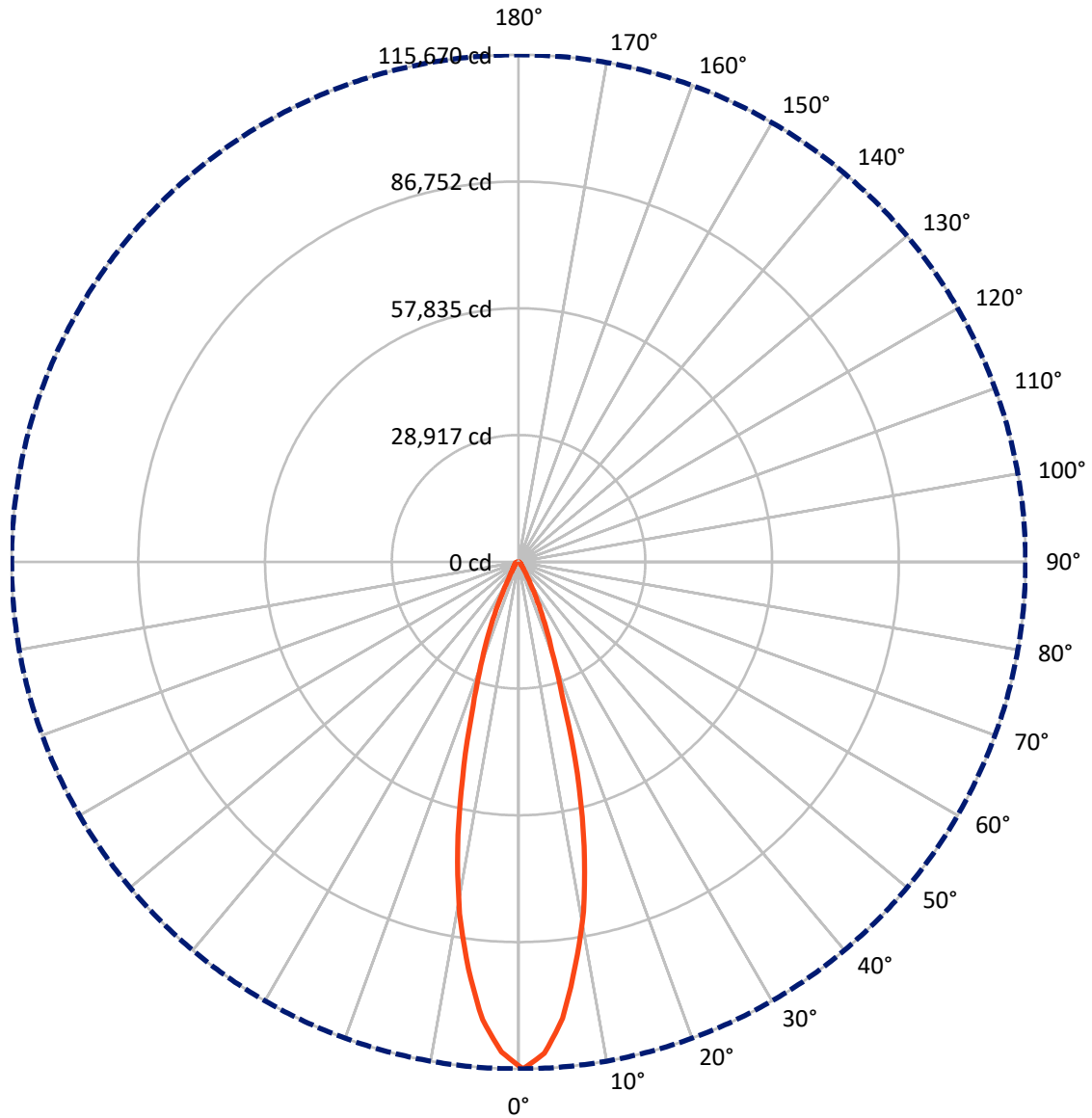
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 289.2 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	17308.8	0.0	17308.8
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	15518.6	0.0	15518.6
	% Fixture	47.3	0.0	47.3
Total	Lumens	32827.4	0.0	32827.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9335.6	28.4
10°-20°	14138.7	43.1
20°-30°	5966.6	18.2
30°-40°	1556.1	4.7
40°-50°	787.1	2.4
50°-60°	514.5	1.6
60°-70°	308.2	0.9
70°-80°	162.1	0.5
80°-90°	58.6	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°	32827.4	100.0
0°-180°	32827.4	100.0

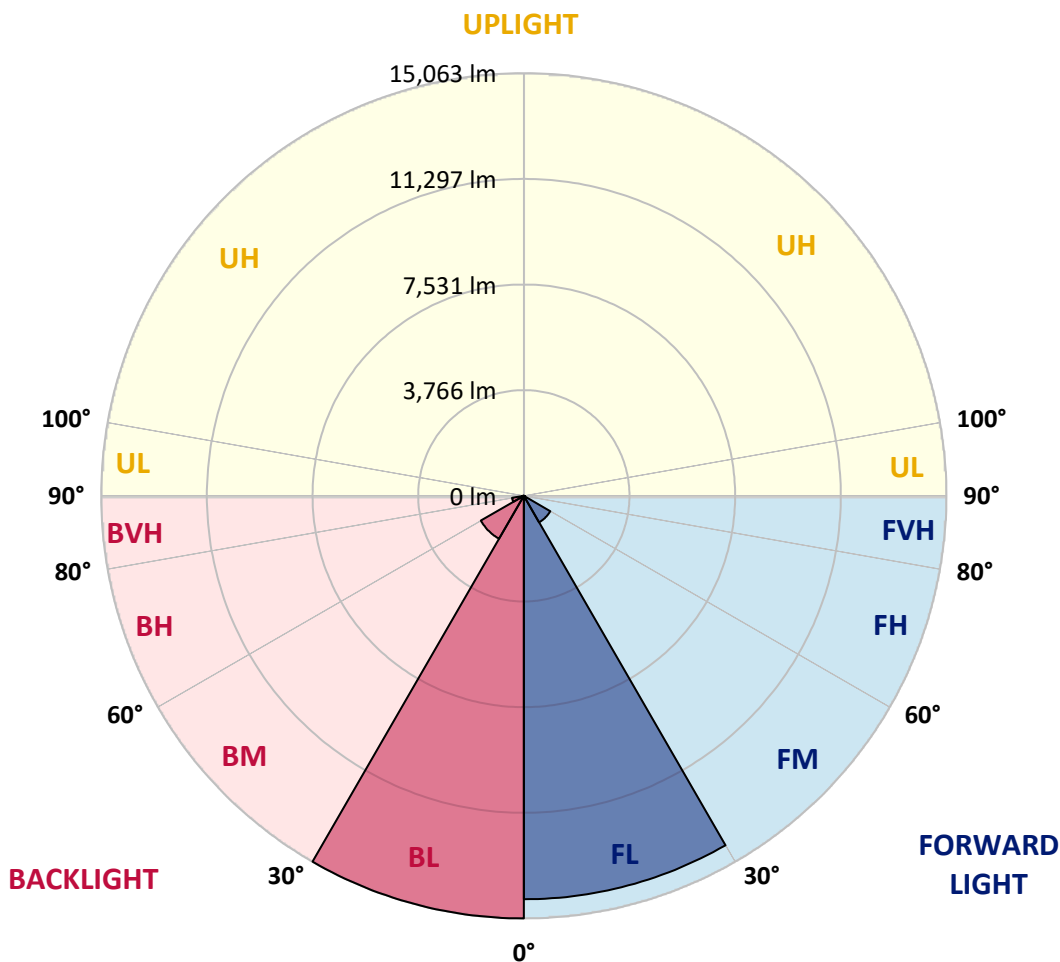


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	14378.2	43.8			
FM (30°-60°)	1088.9	3.3			
FH (60°-80°)	44.4	0.1			G0/660
FVH (80°-90°)	7.1	0.0			G0/10
BL (0°-30°)	15062.6	45.9	B5		
BM (30°-60°)	1768.8	5.4	B2/2500		
BH (60°-80°)	426.0	1.3	B1/500		G0/660
BVH (80°-90°)	51.4	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°	115669.7	115669.7	115669.7	115669.7	115669.7	115669.7	115669.7	115669.7	115669.7	115669.7
2.5°	112300.2	112362.9	112130.6	112632.0	112241.2	113288.2	112768.4	113579.4	113306.6	113760.1
5°	104632.1	104528.9	104462.5	105240.4	105015.5	106139.9	105421.1	105185.1	105915.1	105782.3
7.5°	93052.6	93325.4	93170.6	93373.4	93487.6	94770.6	95176.1	94859.0	94870.1	95054.4
10°	81181.9	80780.0	80208.6	80588.3	81392.0	81952.4	81727.5	82192.0	82088.8	82527.5
12.5°	66575.7	66892.7	66572.0	66232.9	67637.4	67482.6	67873.4	68127.7	67490.0	68909.3
15°	50148.4	50314.3	50705.0	50679.2	51759.4	51976.9	51925.3	52194.4	51696.7	51932.7
17.5°	32216.9	32777.3	33827.9	35604.9	37603.0	37835.2	37776.2	37555.1	37315.4	37050.0
20°	21640.1	21581.2	21960.9	22480.7	26617.0	27711.9	27678.7	26985.7	25982.9	25791.2
22.5°	15159.2	15269.8	15218.1	15734.3	16589.5	19608.8	19236.5	18532.4	18204.3	17990.4
25°	9972.2	9931.6	10189.7	10344.5	11078.1	11446.8	12751.8	12490.1	11985.0	12040.3
27.5°	6079.1	6130.8	6226.6	6359.3	6879.1	6761.2	7505.8	7605.4	7443.2	7269.9
30°	3730.8	3767.7	3845.1	3940.9	4121.6	3992.6	4199.0	4556.6	4497.6	4376.0
32.5°	2532.7	2536.4	2591.7	2628.5	2606.4	2484.7	2551.1	2890.3	2897.6	2886.6
35°	1821.2	1821.2	1872.8	1902.3	1839.6	1740.1	1751.1	1961.3	2053.4	2071.9
37.5°	1257.1	1260.8	1349.3	1437.8	1367.7	1341.9	1297.7	1437.8	1585.2	1607.3
40°	954.8	951.1	995.4	1061.7	1069.1	1021.2	1035.9	1124.4	1275.6	1294.0
42.5°	774.2	777.9	800.0	792.6	796.3	859.0	881.1	921.6	1061.7	1094.9
45°	652.5	656.2	667.3	630.4	615.7	711.5	741.0	763.1	881.1	921.6
47.5°	538.2	545.6	556.7	516.1	508.7	571.4	623.0	645.1	748.4	792.6
50°	387.1	394.5	435.0	412.9	435.0	449.8	519.8	553.0	623.0	682.0
52.5°	280.2	287.6	298.6	302.3	357.6	365.0	416.6	468.2	501.4	567.7
55°	221.2	228.6	221.2	213.8	261.7	302.3	320.7	376.0	401.8	479.3
57.5°	125.3	132.7	143.8	165.9	173.3	232.3	250.7	298.6	320.7	394.5
60°	22.1	25.8	40.6	99.5	121.7	147.5	188.0	228.6	258.1	309.7
62.5°	3.7	3.7	7.4	22.1	70.0	103.2	136.4	162.2	188.0	235.9
65°	0.0	0.0	3.7	7.4	18.4	59.0	73.7	95.9	129.0	169.6
67.5°	0.0	0.0	3.7	7.4	11.1	22.1	33.2	59.0	73.7	114.3
70°	0.0	0.0	3.7	7.4	11.1	14.7	18.4	25.8	44.2	70.0
72.5°	0.0	0.0	3.7	7.4	11.1	14.7	18.4	22.1	22.1	44.2
75°	0.0	0.0	3.7	7.4	11.1	18.4	22.1	22.1	18.4	18.4
77.5°	0.0	0.0	3.7	7.4	14.7	22.1	25.8	22.1	14.7	14.7
80°	0.0	0.0	7.4	11.1	18.4	25.8	33.2	25.8	14.7	7.4
82.5°	0.0	0.0	7.4	14.7	18.4	29.5	40.6	33.2	14.7	7.4
85°	0.0	0.0	3.7	11.1	22.1	29.5	40.6	29.5	14.7	3.7
87.5°	0.0	0.0	3.7	3.7	7.4	11.1	22.1	18.4	7.4	3.7
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°
115669.7	0°	115669.7	115669.7	115669.7	115669.7	115669.7	115669.7	115669.7	115669.7	115669.7
112901.1	2.5°	113549.9	114139.8	114261.4	114099.2	114335.2	113911.2	113586.8	112746.3	112241.2
105741.8	5°	106423.8	106335.3	106951.0	107153.7	107127.9	106803.5	106350.1	105841.3	105347.3
94696.8	7.5°	95286.7	95401.0	95961.3	96318.9	96138.3	95732.8	95419.4	95036.0	94704.2
82686.0	10°	83441.7	82656.5	83353.3	83353.3	83836.2	82689.7	82796.6	81830.7	81875.0
68883.5	12.5°	69119.4	69403.3	69517.6	69845.7	69281.6	68673.4	67928.7	67781.2	67320.4
51482.9	15°	52223.9	53034.9	52338.2	53528.9	52953.8	52319.8	52205.5	51062.6	51423.9
37341.2	17.5°	37156.9	38052.7	38332.9	39014.9	38491.4	38115.4	37639.8	37293.3	37267.5
26141.4	20°	26347.9	27247.4	27453.9	28272.3	28213.3	28095.3	27693.5	27254.8	26779.2
17795.1	22.5°	18064.2	18797.8	19483.5	20585.8	20567.4	20220.8	20180.3	19560.9	19572.0
12021.9	25°	12147.2	12681.8	12844.0	13972.1	14097.4	14060.6	13850.4	13275.3	13492.8
7343.6	27.5°	7351.0	7819.2	8368.5	8766.7	9142.7	9083.7	8873.6	8552.8	8412.7
4412.8	30°	4530.8	4740.9	4943.7	5422.9	5647.8	5765.8	5666.3	5367.6	5389.8
2905.0	32.5°	2967.7	3144.6	3292.1	3594.4	3712.4	3929.9	3889.3	3826.7	3752.9
2090.3	35°	2164.0	2293.0	2392.6	2532.7	2683.8	2868.1	2897.6	2871.8	2842.3
1614.7	37.5°	1651.6	1784.3	1898.6	1957.6	2075.5	2219.3	2300.4	2296.7	2274.6
1316.1	40°	1341.9	1441.4	1544.7	1622.1	1703.2	1810.1	1909.6	1920.7	1920.7
1106.0	42.5°	1120.7	1205.5	1308.7	1389.8	1448.8	1548.4	1651.6	1659.0	1651.6
936.4	45°	958.5	1032.2	1131.8	1227.6	1275.6	1349.3	1448.8	1470.9	1456.2
803.7	47.5°	833.2	899.5	984.3	1087.5	1139.1	1205.5	1297.7	1323.5	1319.8
693.1	50°	715.2	792.6	877.4	962.2	1028.6	1091.2	1179.7	1209.2	1198.1
589.9	52.5°	630.4	700.4	774.2	866.3	943.8	999.1	1069.1	1120.7	1106.0
497.7	55°	527.2	612.0	689.4	766.8	862.7	921.6	988.0	1050.7	1035.9
420.3	57.5°	457.1	527.2	615.7	685.7	781.6	851.6	918.0	984.3	980.6
342.9	60°	383.4	457.1	541.9	615.7	704.1	781.6	847.9	921.6	929.0
258.1	62.5°	302.3	390.8	464.5	549.3	637.8	722.6	781.6	855.3	866.3
195.4	65°	228.6	320.7	401.8	482.9	571.4	663.6	715.2	777.9	788.9
143.8	67.5°	169.6	247.0	342.9	416.6	508.7	597.2	645.1	696.8	715.2
88.5	70°	129.0	188.0	287.6	357.6	453.4	523.5	575.1	619.3	634.1
59.0	72.5°	81.1	147.5	232.3	306.0	390.8	453.4	490.3	516.1	538.2
33.2	75°	55.3	114.3	188.0	261.7	324.4	372.3	405.5	427.6	446.1
14.7	77.5°	33.2	88.5	154.8	217.5	258.1	294.9	328.1	342.9	353.9
11.1	80°	18.4	66.4	129.0	177.0	202.8	228.6	254.4	272.8	280.2
7.4	82.5°	11.1	51.6	103.2	136.4	147.5	173.3	199.1	210.1	210.1
3.7	85°	7.4	36.9	70.0	99.5	106.9	125.3	132.7	140.1	147.5
3.7	87.5°	7.4	22.1	44.2	55.3	59.0	66.4	70.0	77.4	84.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
115669.7
111868.9
104794.3
93579.8
81443.6
66900.1
51062.6
36581.8
26572.8
19358.2
13150.0
8291.1
5293.9
3727.1
2831.3
2263.6
1898.6
1644.2
1456.2
1312.4
1190.8
1102.3
1043.3
984.3
932.7
873.7
800.0
722.6
641.5
534.6
442.4
350.2
272.8
206.4
143.8
81.1
0.0

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