

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: P637367

Luminaire Tested: **IFLD-L-SA7B-735-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637367
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-735-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33876.7 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

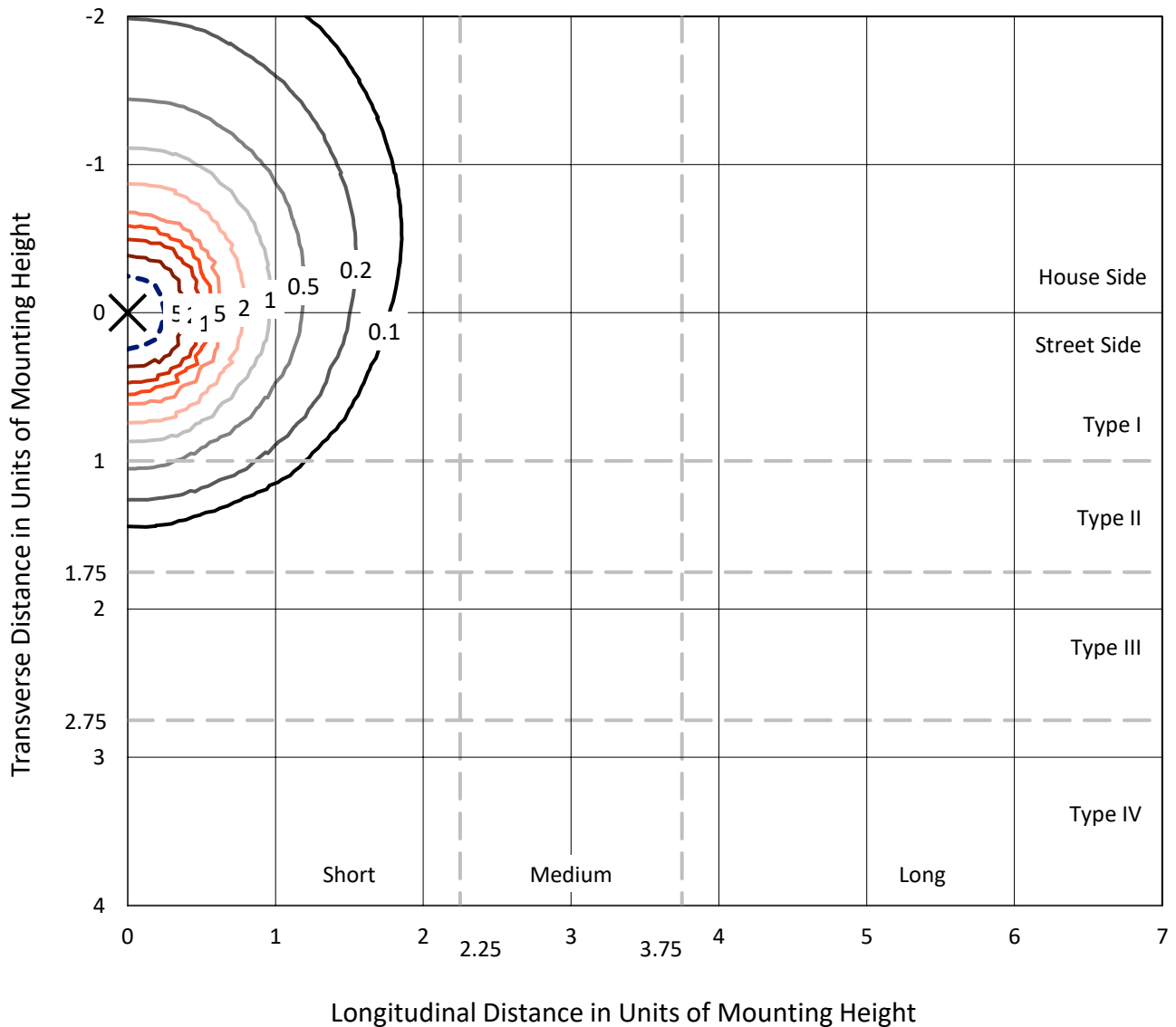
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

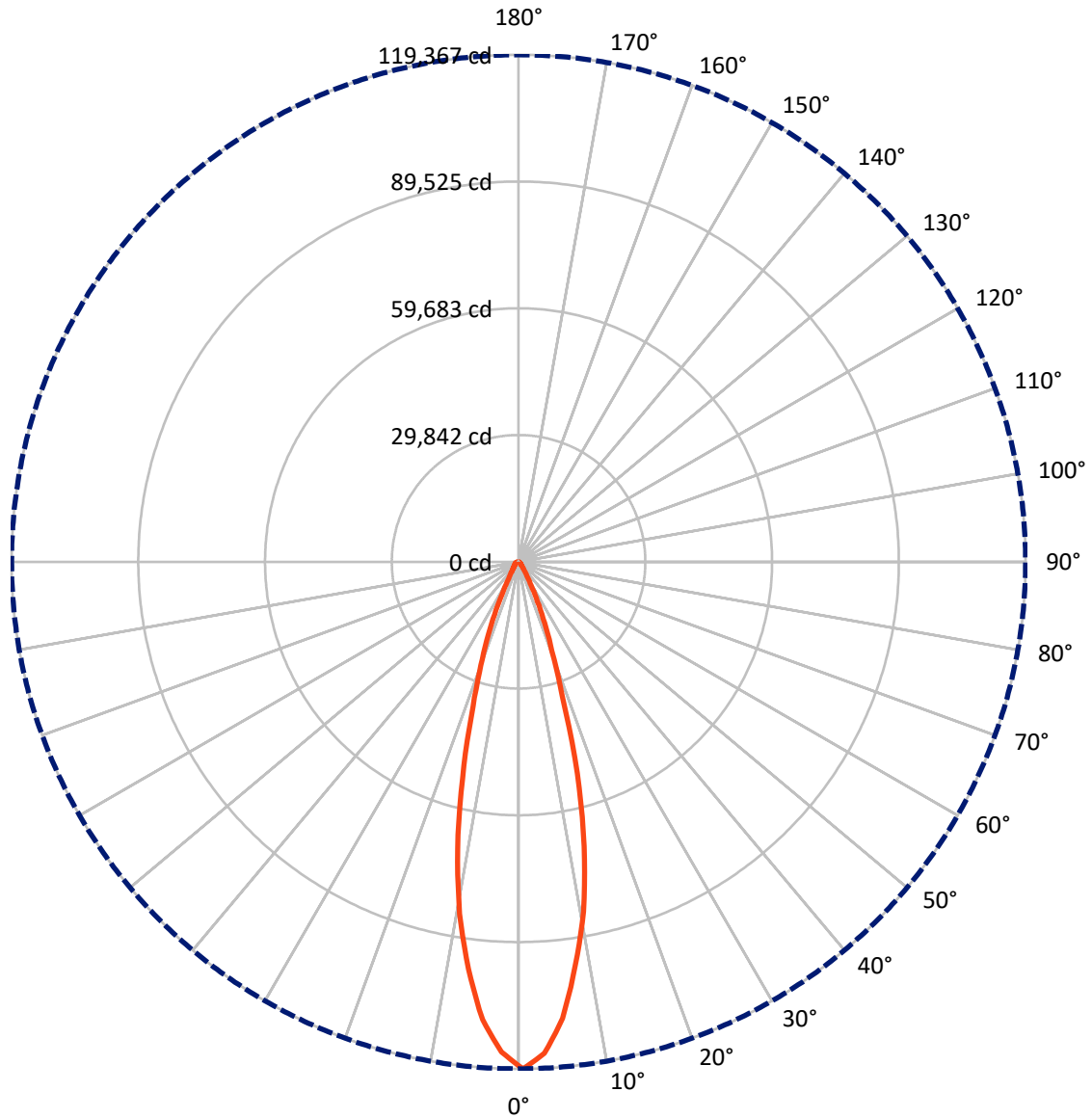
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 298.4 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	17862.1	0.0	17862.1
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	16014.6	0.0	16014.6
	% Fixture	47.3	0.0	47.3
Total	Lumens	33876.7	0.0	33876.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9634.0	28.4
10°-20°	14590.6	43.1
20°-30°	6157.3	18.2
30°-40°	1605.9	4.7
40°-50°	812.2	2.4
50°-60°	530.9	1.6
60°-70°	318.1	0.9
70°-80°	167.3	0.5
80°-90°	60.4	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°	33876.7	100.0
0°-180°	33876.7	100.0

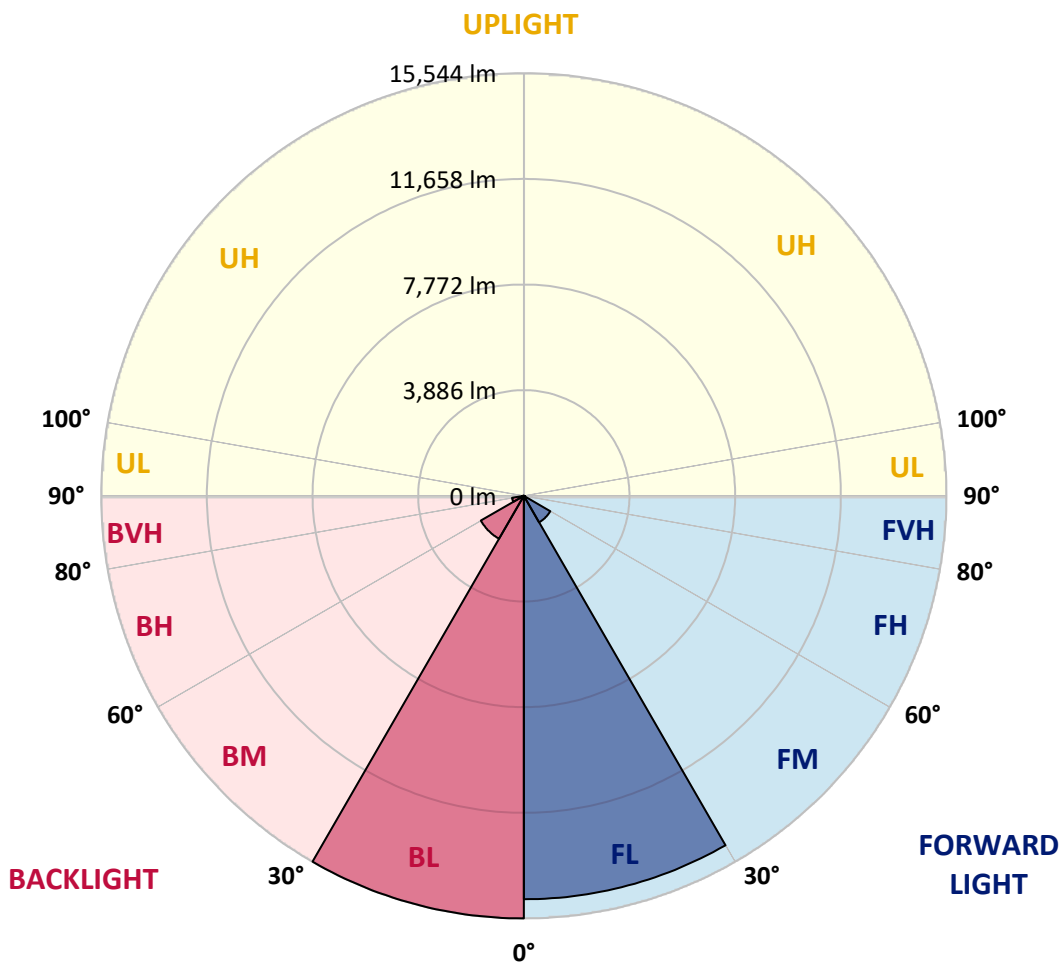


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	14837.8	43.8			
FM (30°-60°)	1123.7	3.3			
FH (60°-80°)	45.8	0.1			G0/660
FVH (80°-90°)	7.3	0.0			G0/10
BL (0°-30°)	15544.1	45.9	B5		
BM (30°-60°)	1825.3	5.4	B2/2500		
BH (60°-80°)	439.6	1.3	B1/500		G0/660
BVH (80°-90°)	53.1	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°	119366.8	119366.8	119366.8	119366.8	119366.8	119366.8	119366.8	119366.8	119366.8	119366.8
2.5°	115889.6	115954.3	115714.6	116232.0	115828.7	116909.2	116372.7	117209.7	116928.2	117396.1
5°	107976.4	107869.9	107801.4	108604.2	108372.1	109532.4	108790.6	108547.1	109300.4	109163.4
7.5°	96026.8	96308.3	96148.6	96357.8	96475.7	97799.7	98218.2	97891.0	97902.4	98092.6
10°	83776.7	83362.0	82772.3	83164.1	83993.5	84571.8	84339.7	84819.1	84712.5	85165.3
12.5°	68703.6	69030.8	68699.8	68349.8	69799.3	69639.5	70042.8	70305.3	69647.1	71111.8
15°	51751.2	51922.4	52325.7	52299.1	53413.8	53638.2	53584.9	53862.7	53349.1	53592.6
17.5°	33246.6	33824.9	34909.2	36742.9	38804.9	39044.5	38983.7	38755.4	38508.1	38234.2
20°	22331.8	22270.9	22662.8	23199.2	27467.8	28597.7	28563.4	27848.2	26813.4	26615.6
22.5°	15643.7	15757.8	15704.6	16237.2	17119.8	20235.6	19851.4	19124.7	18786.1	18565.5
25°	10290.9	10249.0	10515.4	10675.1	11432.2	11812.7	13159.4	12889.3	12368.1	12425.2
27.5°	6273.5	6326.7	6425.6	6562.6	7099.0	6977.3	7745.8	7848.5	7681.1	7502.3
30°	3850.1	3888.1	3968.0	4066.9	4253.3	4120.2	4333.2	4702.2	4641.4	4515.8
32.5°	2613.6	2617.4	2674.5	2712.5	2689.7	2564.2	2632.6	2982.6	2990.3	2978.8
35°	1879.4	1879.4	1932.6	1963.1	1898.4	1795.7	1807.1	2023.9	2119.0	2138.1
37.5°	1297.3	1301.1	1392.4	1483.7	1411.4	1384.8	1339.1	1483.7	1635.9	1658.7
40°	985.3	981.5	1027.2	1095.7	1103.3	1053.8	1069.0	1160.3	1316.3	1335.3
42.5°	798.9	802.7	825.6	817.9	821.8	886.4	909.3	951.1	1095.7	1129.9
45°	673.4	677.2	688.6	650.6	635.3	734.2	764.7	787.5	909.3	951.1
47.5°	555.4	563.1	574.5	532.6	525.0	589.7	642.9	665.8	772.3	817.9
50°	399.5	407.1	448.9	426.1	448.9	464.1	536.4	570.7	642.9	703.8
52.5°	289.1	296.7	308.2	312.0	369.0	376.6	429.9	483.2	517.4	585.9
55°	228.3	235.9	228.3	220.7	270.1	312.0	331.0	388.0	414.7	494.6
57.5°	129.3	137.0	148.4	171.2	178.8	239.7	258.7	308.2	331.0	407.1
60°	22.8	26.6	41.8	102.7	125.5	152.2	194.0	235.9	266.3	319.6
62.5°	3.8	3.8	7.6	22.8	72.3	106.5	140.8	167.4	194.0	243.5
65°	0.0	0.0	3.8	7.6	19.0	60.9	76.1	98.9	133.2	175.0
67.5°	0.0	0.0	3.8	7.6	11.4	22.8	34.2	60.9	76.1	117.9
70°	0.0	0.0	3.8	7.6	11.4	15.2	19.0	26.6	45.7	72.3
72.5°	0.0	0.0	3.8	7.6	11.4	15.2	19.0	22.8	22.8	45.7
75°	0.0	0.0	3.8	7.6	11.4	19.0	22.8	22.8	19.0	19.0
77.5°	0.0	0.0	3.8	7.6	15.2	22.8	26.6	22.8	15.2	15.2
80°	0.0	0.0	7.6	11.4	19.0	26.6	34.2	26.6	15.2	7.6
82.5°	0.0	0.0	7.6	15.2	19.0	30.4	41.8	34.2	15.2	7.6
85°	0.0	0.0	3.8	11.4	22.8	30.4	41.8	30.4	15.2	3.8
87.5°	0.0	0.0	3.8	3.8	7.6	11.4	22.8	19.0	7.6	3.8
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°
119366.8	0°	119366.8	119366.8	119366.8	119366.8	119366.8	119366.8	119366.8	119366.8	119366.8
116509.7	2.5°	117179.3	117788.0	117913.5	117746.1	117989.6	117552.1	117217.3	116349.9	115828.7
109121.6	5°	109825.4	109734.1	110369.4	110578.6	110552.0	110217.2	109749.3	109224.3	108714.5
97723.6	7.5°	98332.3	98450.2	99028.5	99397.5	99211.1	98792.6	98469.2	98073.6	97731.2
85328.8	10°	86108.8	85298.4	86017.4	86017.4	86515.8	85332.7	85443.0	84446.2	84491.9
71085.2	12.5°	71328.7	71621.6	71739.5	72078.1	71496.1	70868.3	70099.8	69947.7	69472.1
53128.4	15°	53893.1	54730.1	54011.0	55239.9	54646.4	53992.0	53874.1	52694.7	53067.6
38534.8	17.5°	38344.5	39269.0	39558.1	40261.9	39721.7	39333.7	38842.9	38485.3	38458.7
26977.0	20°	27190.0	28118.3	28331.4	29175.9	29115.1	28993.3	28578.6	28125.9	27635.1
18363.8	22.5°	18641.6	19398.6	20106.2	21243.8	21224.7	20867.1	20825.3	20186.1	20197.6
12406.1	25°	12535.5	13087.1	13254.5	14418.7	14548.0	14510.0	14293.1	13699.6	13924.1
7578.4	27.5°	7586.0	8069.1	8636.0	9046.9	9434.9	9374.0	9157.2	8826.2	8681.6
4553.9	30°	4675.6	4892.5	5101.7	5596.3	5828.3	5950.1	5847.4	5539.2	5562.0
2997.9	32.5°	3062.5	3245.2	3397.3	3709.3	3831.0	4055.5	4013.6	3949.0	3872.9
2157.1	35°	2233.2	2366.3	2469.1	2613.6	2769.6	2959.8	2990.3	2963.6	2933.2
1666.3	37.5°	1704.4	1841.3	1959.3	2020.1	2141.9	2290.2	2373.9	2370.1	2347.3
1358.2	40°	1384.8	1487.5	1594.0	1673.9	1757.6	1868.0	1970.7	1982.1	1982.1
1141.3	42.5°	1156.5	1244.0	1350.6	1434.3	1495.1	1597.8	1704.4	1712.0	1704.4
966.3	45°	989.1	1065.2	1168.0	1266.9	1316.3	1392.4	1495.1	1518.0	1502.7
829.4	47.5°	859.8	928.3	1015.8	1122.3	1175.6	1244.0	1339.1	1365.8	1362.0
715.2	50°	738.1	817.9	905.4	992.9	1061.4	1126.1	1217.4	1247.8	1236.4
608.7	52.5°	650.6	722.8	798.9	894.0	973.9	1031.0	1103.3	1156.5	1141.3
513.6	55°	544.0	631.5	711.4	791.3	890.2	951.1	1019.6	1084.3	1069.0
433.7	57.5°	471.7	544.0	635.3	707.6	806.5	878.8	947.3	1015.8	1012.0
353.8	60°	395.7	471.7	559.2	635.3	726.6	806.5	875.0	951.1	958.7
266.3	62.5°	312.0	403.3	479.4	566.9	658.2	745.7	806.5	882.6	894.0
201.6	65°	235.9	331.0	414.7	498.4	589.7	684.8	738.1	802.7	814.1
148.4	67.5°	175.0	254.9	353.8	429.9	525.0	616.3	665.8	719.0	738.1
91.3	70°	133.2	194.0	296.7	369.0	467.9	540.2	593.5	639.1	654.4
60.9	72.5°	83.7	152.2	239.7	315.8	403.3	467.9	506.0	532.6	555.4
34.2	75°	57.1	117.9	194.0	270.1	334.8	384.2	418.5	441.3	460.3
15.2	77.5°	34.2	91.3	159.8	224.5	266.3	304.4	338.6	353.8	365.2
11.4	80°	19.0	68.5	133.2	182.6	209.2	235.9	262.5	281.5	289.1
7.6	82.5°	11.4	53.3	106.5	140.8	152.2	178.8	205.4	216.9	216.9
3.8	85°	7.6	38.0	72.3	102.7	110.3	129.3	137.0	144.6	152.2
3.8	87.5°	7.6	22.8	45.7	57.1	60.9	68.5	72.3	79.9	87.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
119366.8
115444.5
108143.8
96570.8
84046.8
69038.4
52694.7
37751.0
27422.1
19976.9
13570.3
8556.1
5463.1
3846.2
2921.8
2335.9
1959.3
1696.8
1502.7
1354.4
1228.8
1137.5
1076.6
1015.8
962.5
901.6
825.6
745.7
662.0
551.6
456.5
361.4
281.5
213.0
148.4
83.7
0.0

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