

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: P637540

Luminaire Tested: **IFLD-L-SA7A-722-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637540
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-722-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21657.4 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 217.6
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



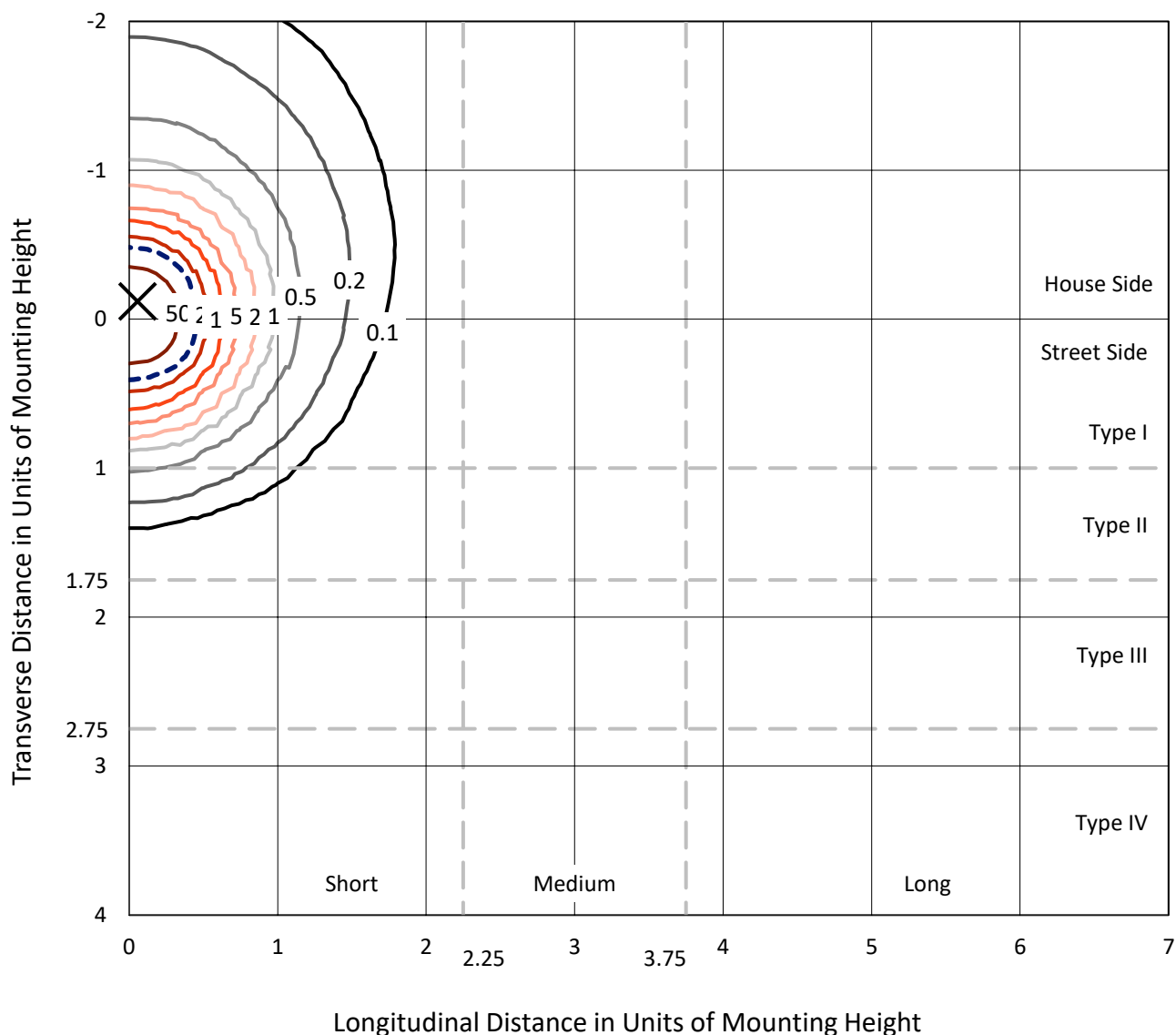
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

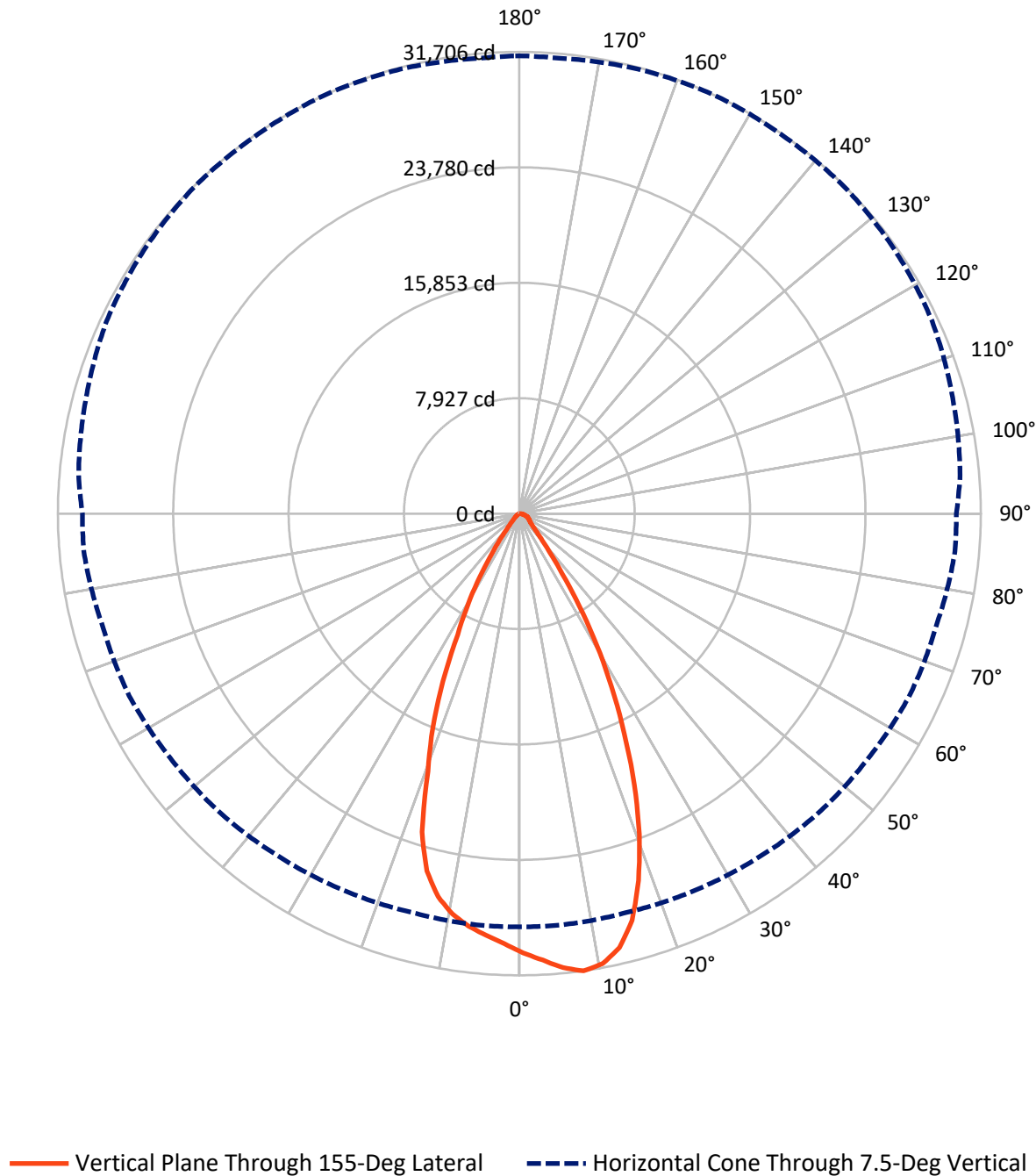


Based on 20 foot mounting height. Maximum calculated value = 76.7 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11955.7	0.0	11955.7
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	9701.7	0.0	9701.7
	% Fixture	44.8	0.0	44.8
Total	Lumens	21657.4	0.0	21657.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2877.0	13.3
10°-20°	7459.9	34.4
20°-30°	6835.4	31.6
30°-40°	2761.5	12.8
40°-50°	810.1	3.7
50°-60°	452.9	2.1
60°-70°	275.1	1.3
70°-80°	139.8	0.6
80°-90°	45.7	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°	21657.4	100.0
0°-180°	21657.4	100.0

Coefficient of Utilization



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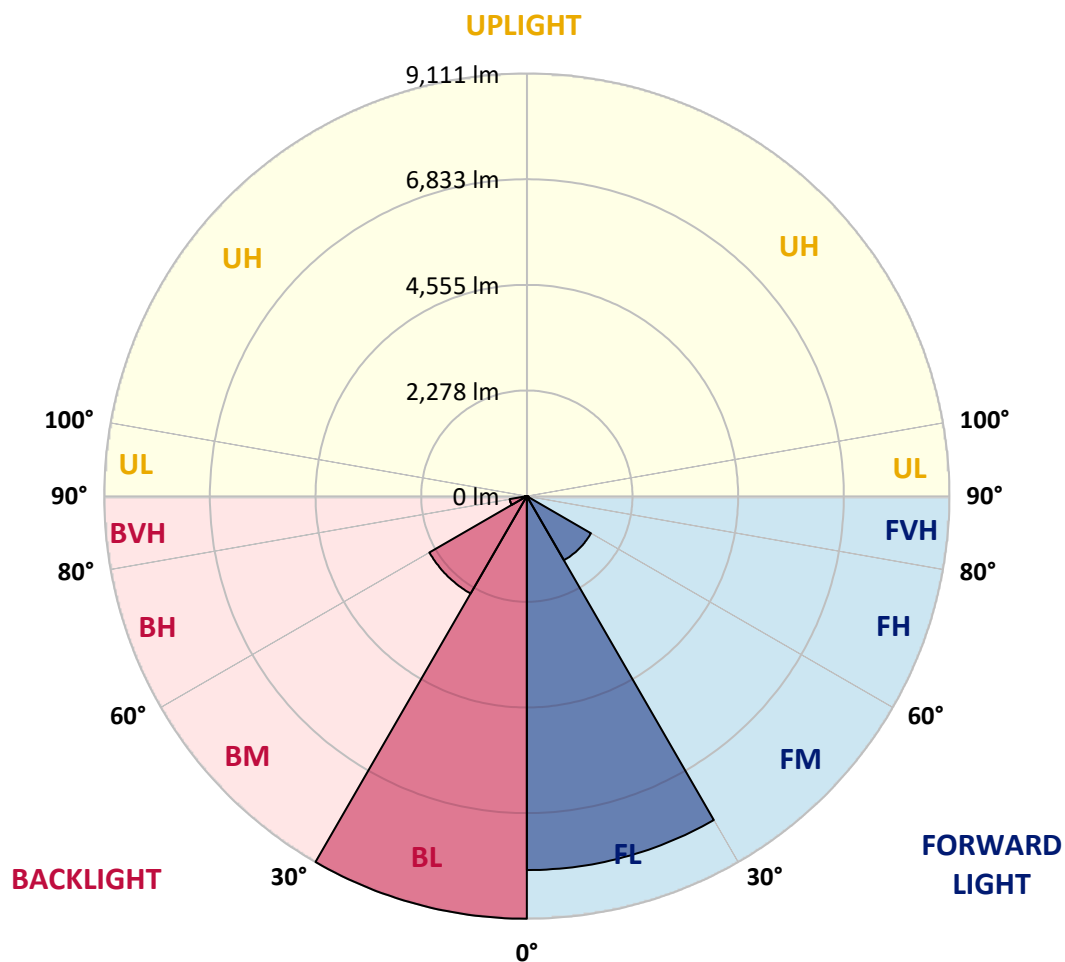
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8061.4	37.2			
FM	(30°-60°)	1597.6	7.4			
FH	(60°-80°)	38.7	0.2			G0/660
FVH	(80°-90°)	4.0	0.0			G0/10
BL	(0°-30°)	9110.8	42.1	B5		
BM	(30°-60°)	2426.9	11.2	B2/2500		
BH	(60°-80°)	376.2	1.7	B1/500		G1/500
BVH	(80°-90°)	41.8	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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	30170.5	30170.5	30170.5	30170.5	30170.5	30170.5	30170.5	30170.5	30170.5	30170.5
2.5°	29516.2	29616.1	29416.3	29548.6	29651.0	29895.8	29915.7	30000.7	30030.6	30252.9
5°	28956.8	29034.2	28871.8	29049.2	29194.0	29411.3	29578.6	29813.4	29943.2	30205.4
7.5°	28374.9	28392.4	28359.9	28547.2	28764.5	29064.1	29271.4	29578.6	29658.5	30033.1
10°	27670.6	27543.3	27605.7	27880.4	28205.1	28664.6	28806.9	29114.1	29256.4	29638.5
12.5°	26546.8	26611.7	26534.3	26884.0	27153.7	27675.6	27825.5	28135.1	28407.3	28744.5
15°	24963.5	24926.0	25083.4	25355.6	25647.8	26062.3	26304.6	26641.7	26849.0	27198.6
17.5°	21404.8	21532.1	22181.5	22863.2	23462.6	23947.1	24236.8	24516.5	24666.3	25045.9
20°	18485.4	18325.5	18413.0	18797.5	20503.2	21244.9	21549.6	21617.1	21679.5	21979.2
22.5°	15221.3	15168.9	15461.1	15893.1	16297.7	18008.4	18422.9	18265.6	18395.5	18677.7
25°	11303.0	11567.7	11827.4	12656.6	13181.0	14020.1	14806.8	14876.7	14924.2	15101.5
27.5°	9200.2	9107.8	9102.8	9335.1	10109.3	10808.5	11477.8	11632.7	11605.2	11775.0
30°	7232.3	7202.4	7097.5	7152.4	7075.0	7696.8	8011.5	8648.3	8613.4	8618.4
32.5°	5217.0	5104.6	5062.1	5144.5	5064.6	5007.2	5281.9	6001.1	5988.6	6038.6
35°	3156.6	3141.7	3176.6	3249.1	3089.2	3084.2	3141.7	3818.4	3900.9	3980.8
37.5°	1743.1	1728.2	1755.6	2022.9	1970.4	1923.0	1937.9	2295.1	2532.3	2592.2
40°	1148.8	1146.3	1166.3	1213.7	1303.6	1286.1	1293.6	1453.5	1678.2	1730.7
42.5°	769.2	771.7	784.2	839.1	851.6	941.5	926.5	964.0	1173.8	1218.7
45°	614.3	611.9	619.3	594.4	609.4	701.8	711.7	714.2	894.1	921.5
47.5°	484.5	484.5	492.0	459.5	452.0	509.5	561.9	569.4	714.2	751.7
50°	339.6	339.6	377.1	362.1	379.6	397.1	454.5	462.0	584.4	624.3
52.5°	249.7	254.7	259.7	262.2	319.7	317.2	367.1	402.1	442.0	512.0
55°	189.8	194.8	182.3	194.8	237.2	264.7	274.7	324.7	352.1	429.5
57.5°	124.9	137.4	127.4	149.8	159.8	204.8	219.8	267.2	284.7	352.1
60°	17.5	20.0	32.5	104.9	112.4	134.9	169.8	212.3	229.8	287.2
62.5°	2.5	2.5	7.5	17.5	74.9	89.9	127.4	147.3	169.8	214.8
65°	0.0	0.0	2.5	5.0	15.0	52.4	64.9	79.9	117.4	154.8
67.5°	0.0	0.0	2.5	5.0	7.5	17.5	27.5	52.4	67.4	107.4
70°	0.0	0.0	2.5	5.0	7.5	10.0	15.0	20.0	40.0	62.4
72.5°	0.0	0.0	2.5	5.0	7.5	10.0	12.5	15.0	17.5	40.0
75°	0.0	0.0	2.5	5.0	7.5	12.5	15.0	15.0	15.0	17.5
77.5°	0.0	0.0	2.5	5.0	10.0	15.0	17.5	15.0	12.5	12.5
80°	0.0	0.0	2.5	7.5	12.5	17.5	20.0	15.0	10.0	7.5
82.5°	0.0	0.0	2.5	7.5	12.5	17.5	20.0	17.5	10.0	7.5
85°	0.0	0.0	2.5	7.5	10.0	12.5	20.0	17.5	10.0	5.0
87.5°	0.0	0.0	0.0	2.5	2.5	5.0	10.0	7.5	5.0	2.5
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°
30170.5	0°	30170.5	30170.5	30170.5	30170.5	30170.5	30170.5	30170.5	30170.5	30170.5
30247.9	2.5°	30472.7	30585.0	30782.3	30837.3	31007.1	30812.3	30704.9	30714.9	30482.6
30173.0	5°	30472.7	30729.9	31074.5	31239.3	31364.2	31354.2	31326.7	31256.8	31087.0
30023.1	7.5°	30392.7	30812.3	31286.8	31506.6	31656.4	31643.9	31706.3	31594.0	31386.7
29755.9	10°	30135.5	30500.1	31084.5	31264.3	31506.6	31511.5	31434.1	31456.6	31087.0
28779.4	12.5°	29326.4	29611.1	30123.0	30327.8	30622.5	30669.9	30585.0	30552.6	30202.9
27178.6	15°	27760.5	27925.4	28439.8	28644.6	28936.8	28896.8	28981.7	28946.8	28639.6
25015.9	17.5°	25470.5	25522.9	26062.3	26234.6	26509.4	26616.7	26489.4	26651.7	26387.0
22031.6	20°	22186.4	22468.6	23075.5	23340.2	23500.1	23692.3	23525.0	23707.3	23397.7
18410.5	22.5°	18855.0	19022.3	19571.7	19953.8	20251.0	20288.5	20226.0	20353.4	19936.3
15218.8	25°	15216.3	15493.6	15928.1	16427.6	16719.8	16899.6	16737.2	16819.6	16752.2
11802.5	27.5°	12002.3	12249.5	12576.6	12948.8	13388.3	13623.0	13493.2	13633.0	13303.4
8800.7	30°	8808.1	8933.0	9302.6	9697.2	10179.2	10463.9	10476.4	10618.7	10423.9
6166.0	32.5°	6210.9	6320.8	6548.0	6810.3	7269.8	7586.9	7537.0	7557.0	7437.1
4018.2	35°	4038.2	4185.6	4347.9	4472.8	4750.0	5099.6	5072.1	5047.1	4964.7
2642.2	37.5°	2699.6	2757.1	2847.0	2959.4	3139.2	3358.9	3431.4	3341.5	3306.5
1783.1	40°	1825.6	1925.5	1985.4	2070.3	2155.2	2340.0	2390.0	2372.5	2337.5
1248.7	42.5°	1296.1	1373.5	1448.5	1530.9	1575.8	1690.7	1788.1	1760.6	1745.6
949.0	45°	984.0	1053.9	1141.3	1203.7	1248.7	1316.1	1408.5	1418.5	1396.0
761.7	47.5°	789.2	851.6	921.5	998.9	1051.4	1093.8	1173.8	1203.7	1188.7
641.8	50°	669.3	716.7	784.2	861.6	919.0	956.5	1026.4	1058.9	1048.9
536.9	52.5°	569.4	626.8	689.3	754.2	824.1	861.6	926.5	974.0	966.5
444.5	55°	472.0	546.9	611.9	676.8	756.7	794.2	851.6	914.0	901.5
377.1	57.5°	412.1	474.5	541.9	604.4	689.3	739.2	791.7	856.6	854.1
309.7	60°	344.6	407.1	482.0	534.4	624.3	694.3	741.7	809.1	814.1
234.8	62.5°	274.7	352.1	409.6	482.0	564.4	646.8	691.8	759.2	784.2
179.8	65°	204.8	289.7	354.6	427.0	504.5	596.9	636.8	704.3	729.2
129.9	67.5°	152.3	217.3	299.7	362.1	449.5	529.4	576.9	639.3	656.8
77.4	70°	114.9	167.3	249.7	304.7	394.6	459.5	507.0	554.4	576.9
52.4	72.5°	67.4	124.9	197.3	262.2	339.6	394.6	429.5	467.0	482.0
25.0	75°	47.4	94.9	154.8	217.3	274.7	319.7	352.1	384.6	399.6
12.5	77.5°	25.0	69.9	122.4	174.8	214.8	252.2	284.7	309.7	319.7
10.0	80°	15.0	49.9	99.9	137.4	164.8	197.3	229.8	247.2	244.7
7.5	82.5°	10.0	40.0	72.4	99.9	119.9	144.8	167.3	179.8	179.8
5.0	85°	7.5	27.5	49.9	77.4	79.9	99.9	104.9	117.4	119.9
5.0	87.5°	5.0	17.5	27.5	45.0	42.5	52.4	54.9	62.4	67.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
30170.5
30295.3
31141.9
31434.1
30979.6
30123.0
28737.0
26322.1
23372.7
19878.9
16709.8
13388.3
10458.9
7504.5
4892.3
3299.0
2342.5
1733.2
1393.5
1181.2
1046.4
961.5
901.5
851.6
814.1
781.7
726.7
656.8
571.9
477.0
394.6
317.2
242.2
177.3
117.4
64.9
0.0

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