

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: P636491

Luminaire Tested: **IFLD-M-SA4A-935-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636491
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-935-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10146.9 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 128.6
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



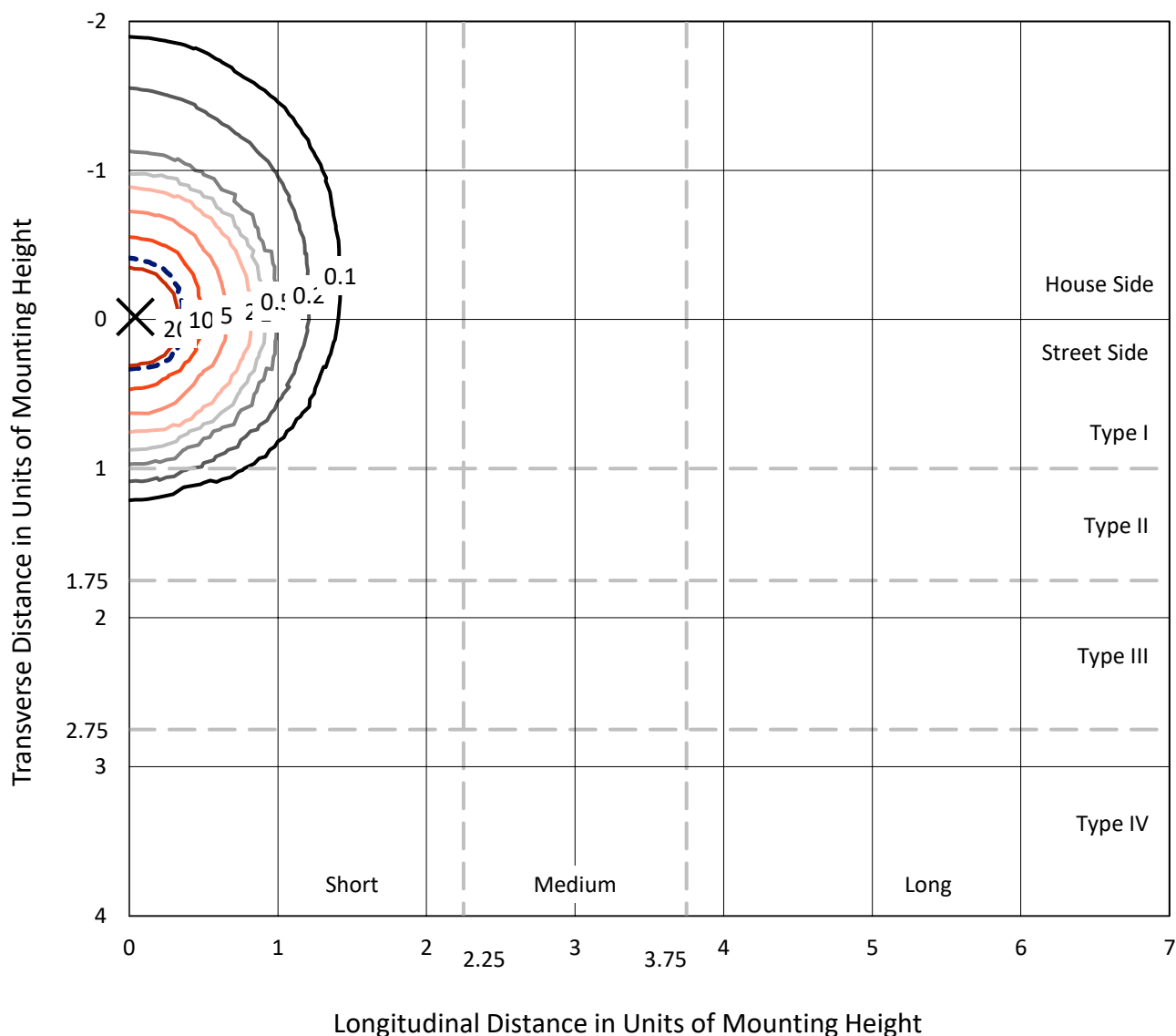
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

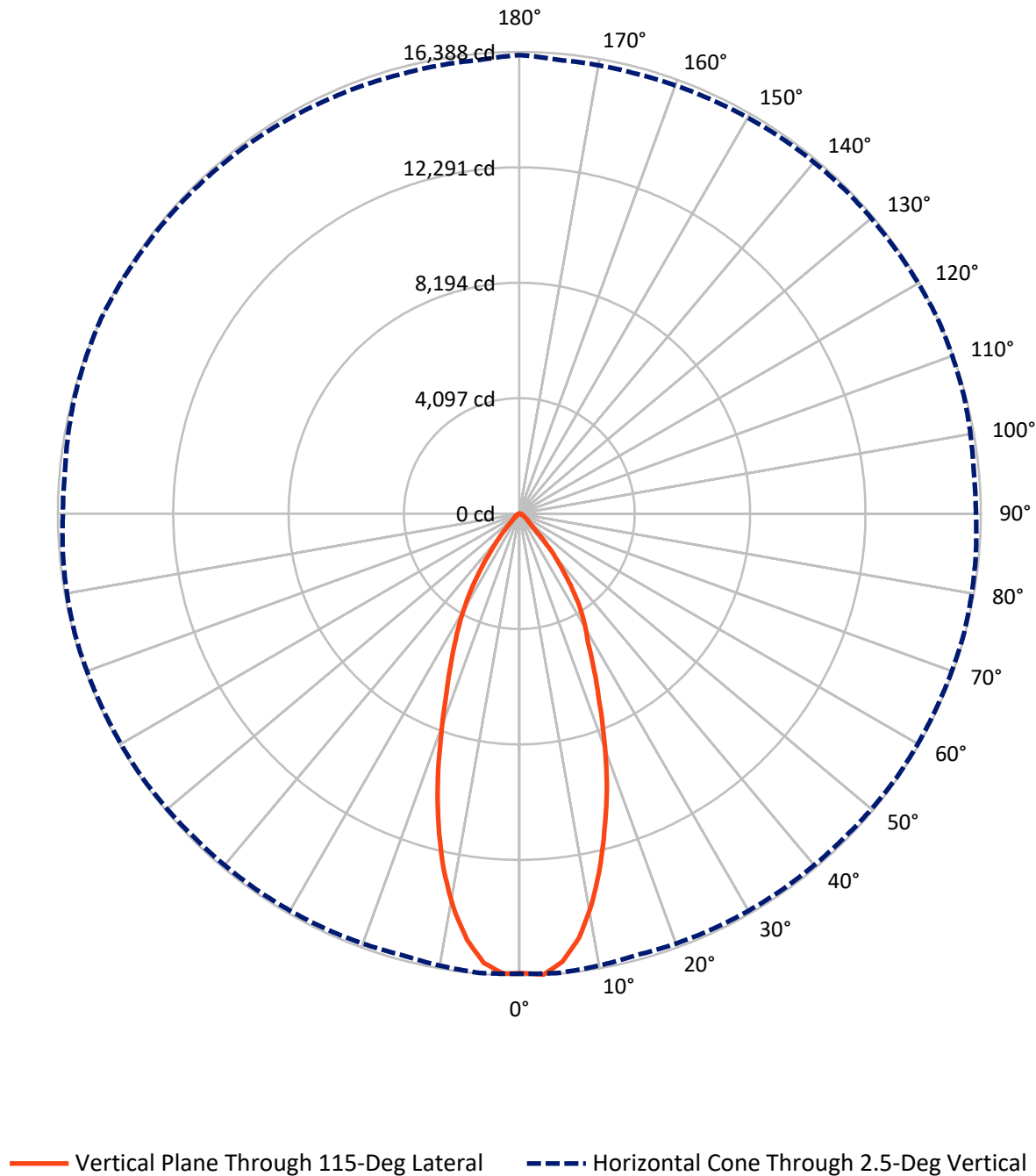


Based on 20 foot mounting height. Maximum calculated value = 40.8 fc

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	5599.9	0.0	5599.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	4547.0	0.0	4547.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	10146.9	0.0	10146.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1463.0	14.4
10°-20°	3092.0	30.5
20°-30°	2790.7	27.5
30°-40°	1846.8	18.2
40°-50°	553.2	5.5
50°-60°	221.9	2.2
60°-70°	114.9	1.1
70°-80°	49.9	0.5
80°-90°	14.5	0.1
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°	10146.9	100.0
0°-180°	10146.9	100.0

Coefficient of Utilization



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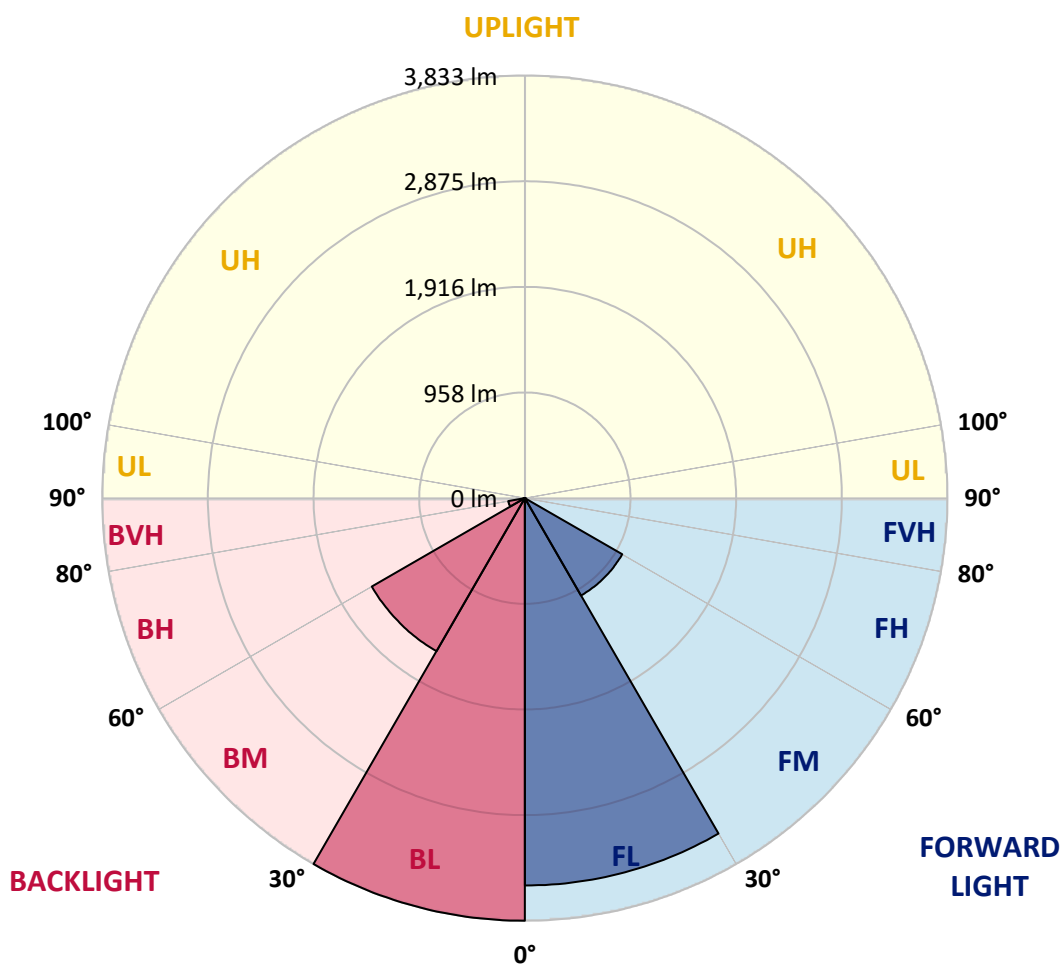
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3512.9	34.6			
FM	(30°-60°)	1019.3	10.0			
FH	(60°-80°)	12.6	0.1			G0/660
FVH	(80°-90°)	2.1	0.0			G0/10
BL	(0°-30°)	3832.7	37.8	B4/5000		
BM	(30°-60°)	1602.6	15.8	B2/2500		
BH	(60°-80°)	152.2	1.5	B1/500		G1/500
BVH	(80°-90°)	12.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16311.1	16311.1	16311.1	16311.1	16311.1	16311.1	16311.1	16311.1	16311.1	16311.1
2.5°	16331.9	16360.9	16215.7	16265.5	16286.2	16292.4	16344.3	16336.0	16350.5	16273.8
5°	16116.1	16060.0	15952.1	15954.2	15948.0	15889.9	16008.1	15999.8	15974.9	15883.6
7.5°	15381.4	15462.4	15259.0	15254.8	15250.7	15180.1	15335.8	15240.3	15261.1	15130.3
10°	14306.5	14316.8	14136.3	14119.7	14134.2	14042.9	14223.5	14186.1	14225.5	14088.6
12.5°	12988.7	13046.8	12847.6	12818.5	12876.7	12748.0	12893.3	12911.9	12853.8	12835.2
15°	10187.2	10340.8	10718.4	11295.3	11444.8	11336.9	11453.1	11451.0	11475.9	11334.8
17.5°	7761.3	7775.8	7686.6	7962.6	9560.5	10079.3	10104.2	9907.0	9757.6	9705.7
20°	6775.5	6825.4	6744.4	6767.2	7022.5	8543.6	8601.7	8305.0	8049.7	8029.0
22.5°	5991.1	6022.2	5964.1	5982.8	5995.3	6173.7	7184.4	6922.9	6800.5	6707.1
25°	5327.1	5327.1	5295.9	5302.2	5289.7	5026.1	5545.0	5843.8	5773.2	5740.0
27.5°	4721.1	4729.4	4690.0	4712.8	4561.3	4135.9	4073.6	4955.6	4880.9	4820.7
30°	4146.3	4173.2	4135.9	4148.3	3818.4	3469.7	3291.3	4133.8	4227.2	4210.6
32.5°	3121.1	3243.5	3544.5	3556.9	3108.7	2841.0	2762.1	3318.3	3673.1	3642.0
35°	1934.1	1927.9	1940.3	2538.0	2384.4	2201.8	2230.8	2506.8	2907.4	2892.8
37.5°	1475.5	1473.4	1496.2	1436.0	1562.6	1670.5	1693.4	1693.4	2122.9	2125.0
40°	1118.5	1110.2	1108.2	1012.7	848.8	1253.4	1216.1	1184.9	1475.5	1506.6
42.5°	713.9	738.8	720.1	616.3	554.1	684.8	763.7	738.8	911.0	933.8
45°	398.4	398.4	381.8	323.7	321.7	346.6	435.8	406.7	466.9	498.0
47.5°	193.0	188.8	207.5	255.3	265.6	257.3	311.3	323.7	352.8	381.8
50°	155.6	155.6	147.3	132.8	220.0	211.7	230.3	246.9	263.6	288.5
52.5°	130.7	130.7	120.4	112.1	126.6	161.9	163.9	195.1	193.0	228.3
55°	66.4	68.5	97.5	97.5	85.1	132.8	134.9	157.7	161.9	190.9
57.5°	6.2	8.3	12.5	60.2	66.4	72.6	101.7	116.2	134.9	147.3
60°	2.1	2.1	4.2	8.3	39.4	49.8	64.3	76.8	93.4	122.4
62.5°	0.0	0.0	2.1	4.2	8.3	31.1	35.3	39.4	56.0	76.8
65°	0.0	0.0	2.1	2.1	4.2	10.4	14.5	24.9	35.3	47.7
67.5°	0.0	0.0	2.1	2.1	4.2	6.2	8.3	12.5	16.6	31.1
70°	0.0	0.0	2.1	2.1	4.2	6.2	6.2	8.3	10.4	14.5
72.5°	0.0	0.0	2.1	2.1	4.2	8.3	6.2	6.2	8.3	10.4
75°	0.0	0.0	2.1	2.1	4.2	6.2	6.2	6.2	6.2	6.2
77.5°	0.0	0.0	2.1	2.1	4.2	6.2	6.2	6.2	4.2	4.2
80°	0.0	0.0	2.1	2.1	4.2	6.2	8.3	8.3	4.2	4.2
82.5°	0.0	0.0	2.1	4.2	4.2	10.4	12.5	10.4	4.2	2.1
85°	0.0	0.0	2.1	2.1	6.2	10.4	10.4	6.2	4.2	2.1
87.5°	0.0	0.0	0.0	2.1	2.1	4.2	6.2	6.2	2.1	2.1
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°
16311.1	0°	16311.1	16311.1	16311.1	16311.1	16311.1	16311.1	16311.1	16311.1	16311.1
16211.5	2.5°	16203.2	16329.8	16387.9	16327.7	16298.7	16257.2	16197.0	16155.5	16163.8
15833.8	5°	15798.5	15931.4	15977.0	15925.1	15881.6	15858.7	15848.3	15869.1	15923.1
15074.3	7.5°	15070.1	15155.2	15205.0	15180.1	15120.0	15188.4	15207.1	15194.7	15273.5
14047.1	10°	14051.2	14144.6	14099.0	14109.3	14038.8	14074.0	14063.7	14109.3	14188.2
12820.6	12.5°	12737.6	12826.8	12791.6	12785.3	12710.6	12777.0	12735.5	12785.3	12889.1
11276.7	15°	11357.6	11413.6	11390.8	11355.5	11289.1	11311.9	11440.6	11432.3	11478.0
9674.6	17.5°	9633.1	9902.9	10050.2	10081.4	10027.4	10073.1	10164.4	10141.5	10245.3
7985.4	20°	7970.9	8242.7	8605.9	8900.6	8906.8	8913.0	8971.1	8985.6	9074.9
6709.1	22.5°	6680.1	6873.1	7263.2	7653.4	7923.1	7979.2	7972.9	7993.7	8018.6
5694.4	25°	5679.8	5821.0	6177.9	6447.7	6920.8	7078.5	7124.2	7078.5	7093.1
4800.0	27.5°	4853.9	5069.7	5188.0	5476.5	5939.2	6304.5	6289.9	6263.0	6267.1
4177.4	30°	4175.3	4407.7	4582.1	4669.2	5017.8	5545.0	5598.9	5522.1	5524.2
3627.5	32.5°	3604.6	3677.3	3934.6	4005.1	4229.3	4708.6	4893.3	4835.2	4824.9
2901.1	35°	2986.2	3025.7	3143.9	3283.0	3415.8	3779.0	4084.0	4030.1	4057.0
2133.3	37.5°	2125.0	2286.9	2401.0	2515.1	2610.6	2838.9	3206.2	3156.4	3183.4
1510.8	40°	1498.3	1570.9	1768.1	1817.9	1959.0	2064.8	2376.1	2359.5	2392.7
938.0	42.5°	921.4	973.3	1072.9	1120.6	1216.1	1276.3	1458.9	1479.6	1523.2
518.8	45°	523.0	545.8	614.3	666.1	736.7	761.6	825.9	855.0	879.9
402.6	47.5°	398.4	423.3	469.0	514.7	572.8	593.5	639.2	682.7	705.6
311.3	50°	325.8	348.6	396.4	433.7	491.8	510.5	547.9	595.6	624.6
236.6	52.5°	246.9	280.2	338.3	377.7	437.9	460.7	496.0	543.7	570.7
195.1	55°	203.4	228.3	280.2	334.1	390.1	421.3	444.1	502.2	531.3
159.8	57.5°	174.3	193.0	226.2	290.5	338.3	383.9	402.6	456.5	485.6
126.6	60°	132.8	161.9	190.9	240.7	294.7	342.4	363.2	410.9	433.7
91.3	62.5°	110.0	128.7	166.0	193.0	253.2	303.0	323.7	367.3	383.9
60.2	65°	76.8	103.8	139.0	155.6	211.7	259.4	288.5	321.7	338.3
35.3	67.5°	45.7	76.8	110.0	132.8	172.2	220.0	251.1	282.2	296.8
20.8	70°	29.1	60.2	87.2	112.1	134.9	180.5	217.9	244.9	238.6
12.5	72.5°	16.6	37.4	64.3	91.3	112.1	151.5	186.8	207.5	147.3
8.3	75°	10.4	27.0	54.0	74.7	91.3	120.4	153.6	157.7	91.3
4.2	77.5°	8.3	20.8	41.5	60.2	62.3	89.2	107.9	122.4	68.5
4.2	80°	4.2	16.6	35.3	49.8	39.4	62.3	83.0	95.5	54.0
2.1	82.5°	4.2	10.4	27.0	35.3	29.1	47.7	60.2	68.5	45.7
2.1	85°	2.1	8.3	14.5	20.8	20.8	31.1	27.0	33.2	29.1
2.1	87.5°	2.1	4.2	8.3	10.4	8.3	12.5	14.5	14.5	12.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
16311.1
16275.8
16035.1
15352.4
14219.3
12907.8
11488.3
10228.7
9056.2
7972.9
7070.2
6273.3
5526.3
4849.8
4081.9
3206.2
2405.2
1573.0
877.8
715.9
637.1
589.4
539.6
498.0
437.9
386.0
338.3
294.7
220.0
130.7
85.1
68.5
56.0
49.8
29.1
10.4
0.0

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