

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: P636451

Luminaire Tested: **IFLD-S-SA2E-930-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636451
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-930-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9585.2 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 156.2
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



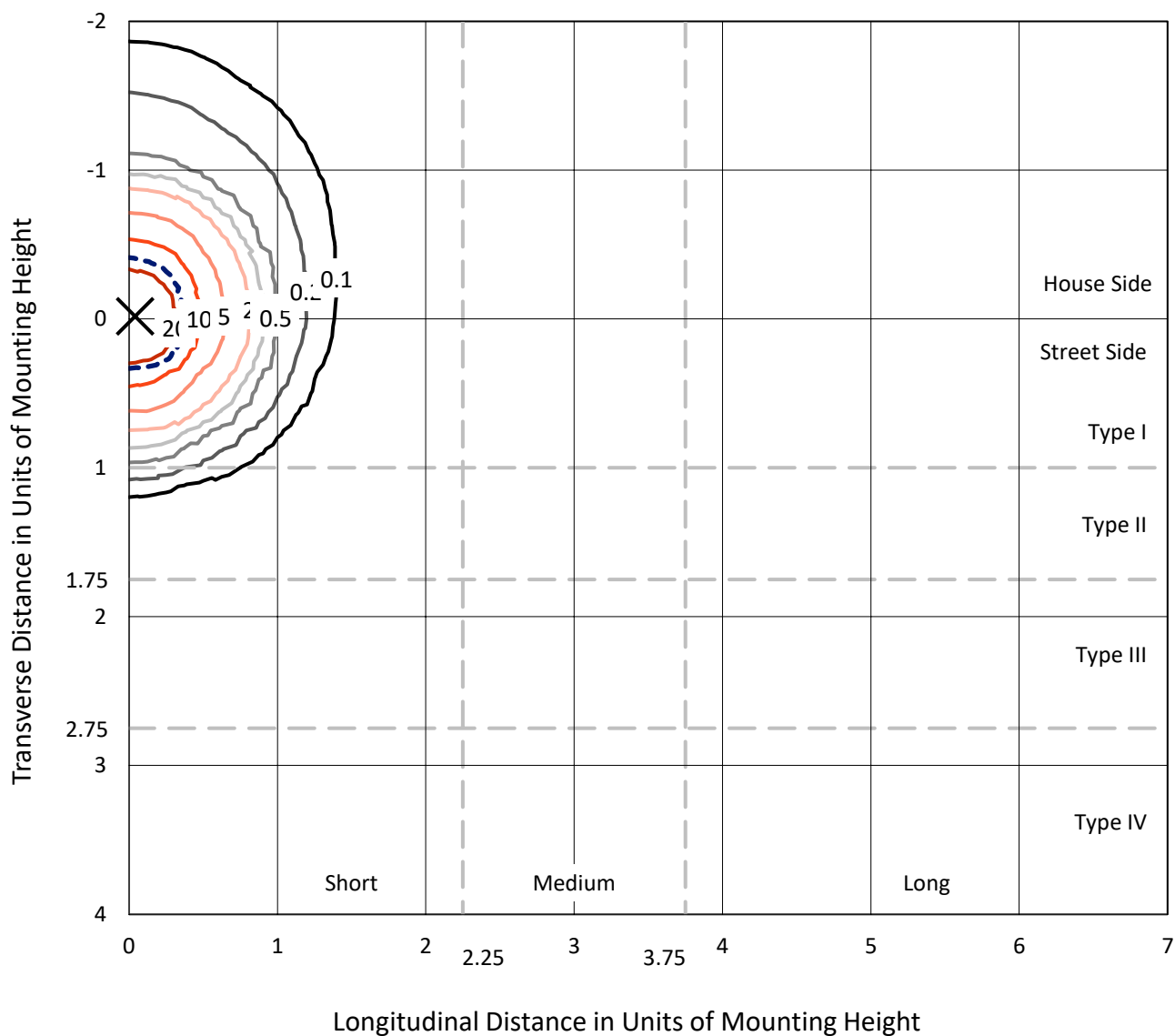
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

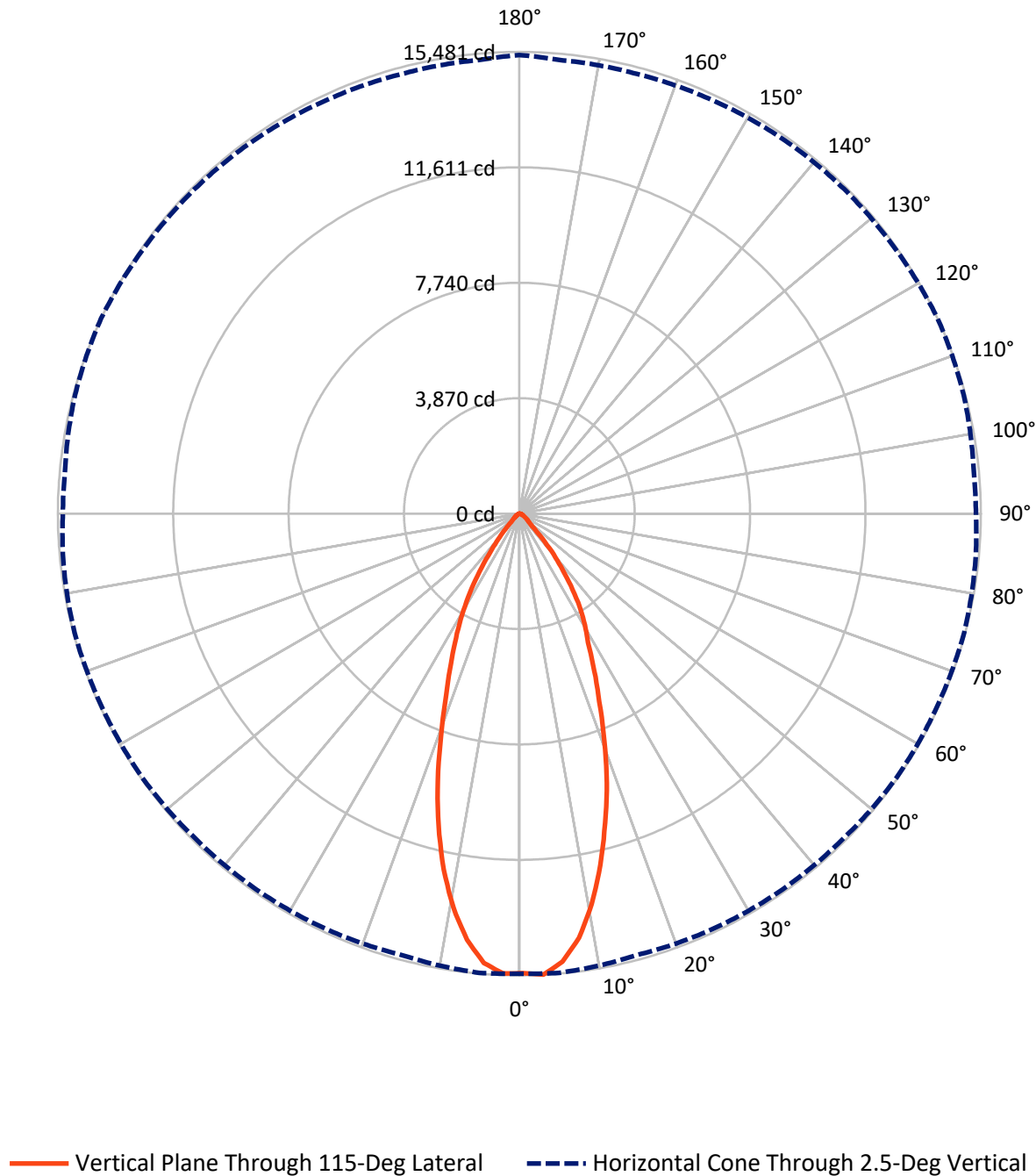


Based on 20 foot mounting height. Maximum calculated value = 38.5 fc

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	5289.9	0.0	5289.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	4295.3	0.0	4295.3
	% Fixture	44.8	0.0	44.8
Total	Lumens	9585.2	0.0	9585.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1382.0	14.4
10°-20°	2920.8	30.5
20°-30°	2636.2	27.5
30°-40°	1744.6	18.2
40°-50°	522.6	5.5
50°-60°	209.6	2.2
60°-70°	108.6	1.1
70°-80°	47.1	0.5
80°-90°	13.7	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°	9585.2	100.0
0°-180°	9585.2	100.0

Coefficient of Utilization



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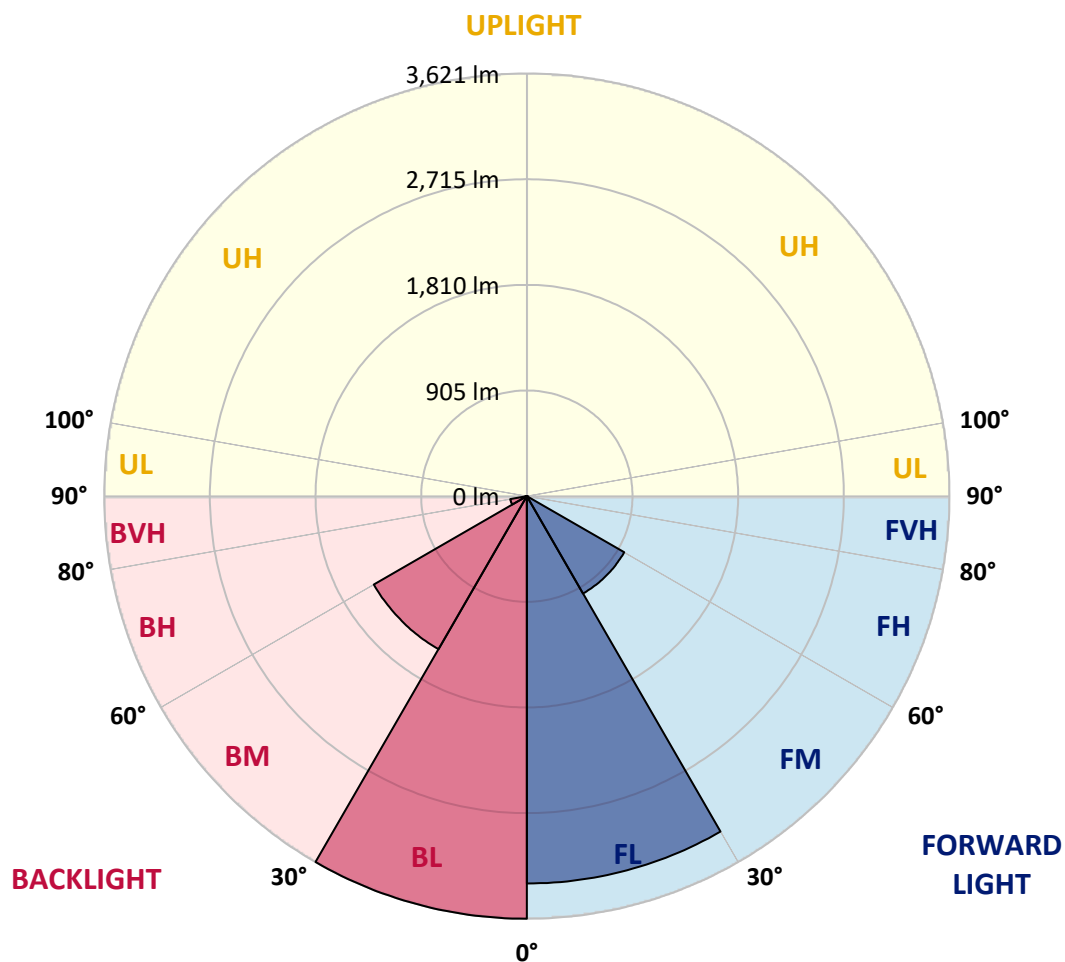
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3318.5	34.6			
FM	(30°-60°)	962.9	10.0			
FH	(60°-80°)	11.9	0.1			G0/660
FVH	(80°-90°)	2.0	0.0			G0/10
BL	(0°-30°)	3620.6	37.8	B4/5000		
BM	(30°-60°)	1513.9	15.8	B2/2500		
BH	(60°-80°)	143.8	1.5	B1/500		G1/500
BVH	(80°-90°)	11.7	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°	15408.3	15408.3	15408.3	15408.3	15408.3	15408.3	15408.3	15408.3	15408.3	15408.3
2.5°	15427.9	15455.3	15318.1	15365.1	15384.8	15390.6	15439.6	15431.8	15445.5	15373.0
5°	15224.0	15171.1	15069.1	15071.1	15065.2	15010.3	15122.1	15114.2	15090.7	15004.4
7.5°	14530.0	14606.5	14414.4	14410.5	14406.5	14339.9	14486.9	14396.7	14416.3	14292.8
10°	13514.6	13524.4	13353.8	13338.2	13351.9	13265.6	13436.2	13400.9	13438.1	13308.8
12.5°	12269.8	12324.7	12136.5	12109.0	12163.9	12042.4	12179.6	12197.2	12142.3	12124.7
15°	9623.3	9768.4	10125.2	10670.1	10811.3	10709.3	10819.1	10817.2	10840.7	10707.4
17.5°	7331.7	7345.4	7261.1	7521.8	9031.3	9521.4	9544.9	9358.7	9217.5	9168.5
20°	6400.5	6447.6	6371.1	6392.7	6633.8	8070.7	8125.6	7845.3	7604.2	7584.6
22.5°	5659.5	5688.9	5634.0	5651.7	5663.4	5832.0	6786.7	6539.7	6424.0	6335.8
25°	5032.2	5032.2	5002.8	5008.7	4996.9	4747.9	5238.0	5520.3	5453.7	5422.3
27.5°	4459.8	4467.6	4430.4	4451.9	4308.8	3907.0	3848.1	4681.3	4610.7	4553.9
30°	3916.8	3942.2	3907.0	3918.7	3607.0	3277.7	3109.1	3905.0	3993.2	3977.5
32.5°	2948.4	3064.0	3348.3	3360.0	2936.6	2683.7	2609.2	3134.6	3469.8	3440.4
35°	1827.0	1821.2	1832.9	2397.5	2252.4	2079.9	2107.4	2368.1	2746.4	2732.7
37.5°	1393.8	1391.8	1413.4	1356.6	1476.1	1578.1	1599.6	1599.6	2005.4	2007.4
40°	1056.6	1048.8	1046.8	956.6	801.8	1184.0	1148.8	1119.4	1393.8	1423.2
42.5°	674.4	697.9	680.2	582.2	523.4	646.9	721.4	697.9	860.6	882.2
45°	376.4	376.4	360.7	305.8	303.9	327.4	411.7	384.2	441.1	470.5
47.5°	182.3	178.4	196.0	241.1	250.9	243.1	294.1	305.8	333.3	360.7
50°	147.0	147.0	139.2	125.5	207.8	200.0	217.6	233.3	249.0	272.5
52.5°	123.5	123.5	113.7	105.9	119.6	152.9	154.9	184.3	182.3	215.6
55°	62.7	64.7	92.1	92.1	80.4	125.5	127.4	149.0	152.9	180.4
57.5°	5.9	7.8	11.8	56.8	62.7	68.6	96.1	109.8	127.4	139.2
60°	2.0	2.0	3.9	7.8	37.2	47.0	60.8	72.5	88.2	115.7
62.5°	0.0	0.0	2.0	3.9	7.8	29.4	33.3	37.2	52.9	72.5
65°	0.0	0.0	2.0	2.0	3.9	9.8	13.7	23.5	33.3	45.1
67.5°	0.0	0.0	2.0	2.0	3.9	5.9	7.8	11.8	15.7	29.4
70°	0.0	0.0	2.0	2.0	3.9	5.9	5.9	7.8	9.8	13.7
72.5°	0.0	0.0	2.0	2.0	3.9	7.8	5.9	5.9	7.8	9.8
75°	0.0	0.0	2.0	2.0	3.9	5.9	5.9	5.9	5.9	5.9
77.5°	0.0	0.0	2.0	2.0	3.9	5.9	5.9	5.9	3.9	3.9
80°	0.0	0.0	2.0	2.0	3.9	5.9	7.8	7.8	3.9	3.9
82.5°	0.0	0.0	2.0	3.9	3.9	9.8	11.8	9.8	3.9	2.0
85°	0.0	0.0	2.0	2.0	5.9	9.8	9.8	5.9	3.9	2.0
87.5°	0.0	0.0	0.0	2.0	2.0	3.9	5.9	5.9	2.0	2.0
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°
15408.3	0°	15408.3	15408.3	15408.3	15408.3	15408.3	15408.3	15408.3	15408.3	15408.3
15314.2	2.5°	15306.3	15425.9	15480.8	15424.0	15396.5	15357.3	15300.5	15261.3	15269.1
14957.4	5°	14924.1	15049.5	15092.7	15043.7	15002.5	14980.9	14971.1	14990.7	15041.7
14239.9	7.5°	14236.0	14316.4	14363.4	14339.9	14283.0	14347.7	14365.4	14353.6	14428.1
13269.5	10°	13273.5	13361.7	13318.6	13328.4	13261.7	13295.0	13285.2	13328.4	13402.8
12111.0	12.5°	12032.6	12116.9	12083.5	12077.7	12007.1	12069.8	12030.6	12077.7	12175.7
10652.5	15°	10728.9	10781.9	10760.3	10727.0	10664.3	10685.8	10807.4	10799.5	10842.6
9139.1	17.5°	9099.9	9354.7	9493.9	9523.3	9472.4	9515.5	9601.7	9580.2	9678.2
7543.4	20°	7529.7	7786.5	8129.5	8407.9	8413.8	8419.7	8474.6	8488.3	8572.6
6337.8	22.5°	6310.3	6492.6	6861.2	7229.7	7484.6	7537.5	7531.6	7551.2	7574.8
5379.2	25°	5365.5	5498.8	5835.9	6090.8	6537.7	6686.7	6729.8	6686.7	6700.4
4534.3	27.5°	4585.2	4789.1	4900.9	5173.3	5610.5	5955.5	5941.8	5916.3	5920.2
3946.2	30°	3944.2	4163.8	4328.4	4410.8	4740.1	5238.0	5289.0	5216.5	5218.4
3426.7	32.5°	3405.1	3473.7	3716.8	3783.5	3995.2	4448.0	4622.5	4567.6	4557.8
2740.6	35°	2820.9	2858.2	2969.9	3101.3	3226.7	3569.8	3858.0	3807.0	3832.5
2015.2	37.5°	2007.4	2160.3	2268.1	2375.9	2466.1	2681.7	3028.7	2981.7	3007.2
1427.1	40°	1415.4	1484.0	1670.2	1717.3	1850.6	1950.5	2244.6	2228.9	2260.3
886.1	42.5°	870.4	919.4	1013.5	1058.6	1148.8	1205.6	1378.1	1397.7	1438.9
490.1	45°	494.0	515.6	580.3	629.3	695.9	719.4	780.2	807.7	831.2
380.3	47.5°	376.4	399.9	443.0	486.2	541.1	560.7	603.8	645.0	666.5
294.1	50°	307.8	329.3	374.4	409.7	464.6	482.2	517.5	562.6	590.1
223.5	52.5°	233.3	264.6	319.5	356.8	413.6	435.2	468.5	513.6	539.1
184.3	55°	192.1	215.6	264.6	315.6	368.5	397.9	419.5	474.4	501.8
150.9	57.5°	164.7	182.3	213.7	274.4	319.5	362.7	380.3	431.3	458.7
119.6	60°	125.5	152.9	180.4	227.4	278.4	323.5	343.1	388.1	409.7
86.3	62.5°	103.9	121.5	156.8	182.3	239.2	286.2	305.8	347.0	362.7
56.8	65°	72.5	98.0	131.3	147.0	200.0	245.0	272.5	303.9	319.5
33.3	67.5°	43.1	72.5	103.9	125.5	162.7	207.8	237.2	266.6	280.3
19.6	70°	27.4	56.8	82.3	105.9	127.4	170.5	205.8	231.3	225.4
11.8	72.5°	15.7	35.3	60.8	86.3	105.9	143.1	176.4	196.0	139.2
7.8	75°	9.8	25.5	51.0	70.6	86.3	113.7	145.1	149.0	86.3
3.9	77.5°	7.8	19.6	39.2	56.8	58.8	84.3	101.9	115.7	64.7
3.9	80°	3.9	15.7	33.3	47.0	37.2	58.8	78.4	90.2	51.0
2.0	82.5°	3.9	9.8	25.5	33.3	27.4	45.1	56.8	64.7	43.1
2.0	85°	2.0	7.8	13.7	19.6	19.6	29.4	25.5	31.4	27.4
2.0	87.5°	2.0	3.9	7.8	9.8	7.8	11.8	13.7	13.7	11.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
15408.3
15375.0
15147.6
14502.6
13432.3
12193.3
10852.4
9662.5
8554.9
7531.6
6678.9
5926.1
5220.4
4581.3
3856.0
3028.7
2272.0
1485.9
829.2
676.3
601.8
556.7
509.7
470.5
413.6
364.6
319.5
278.4
207.8
123.5
80.4
64.7
52.9
47.0
27.4
9.8
0.0

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