

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: P636483

Luminaire Tested: **IFLD-S-SA3C-935-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636483
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-935-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5
distribution lens and Visor
Light Source: (48) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11638.4 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 160.8
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

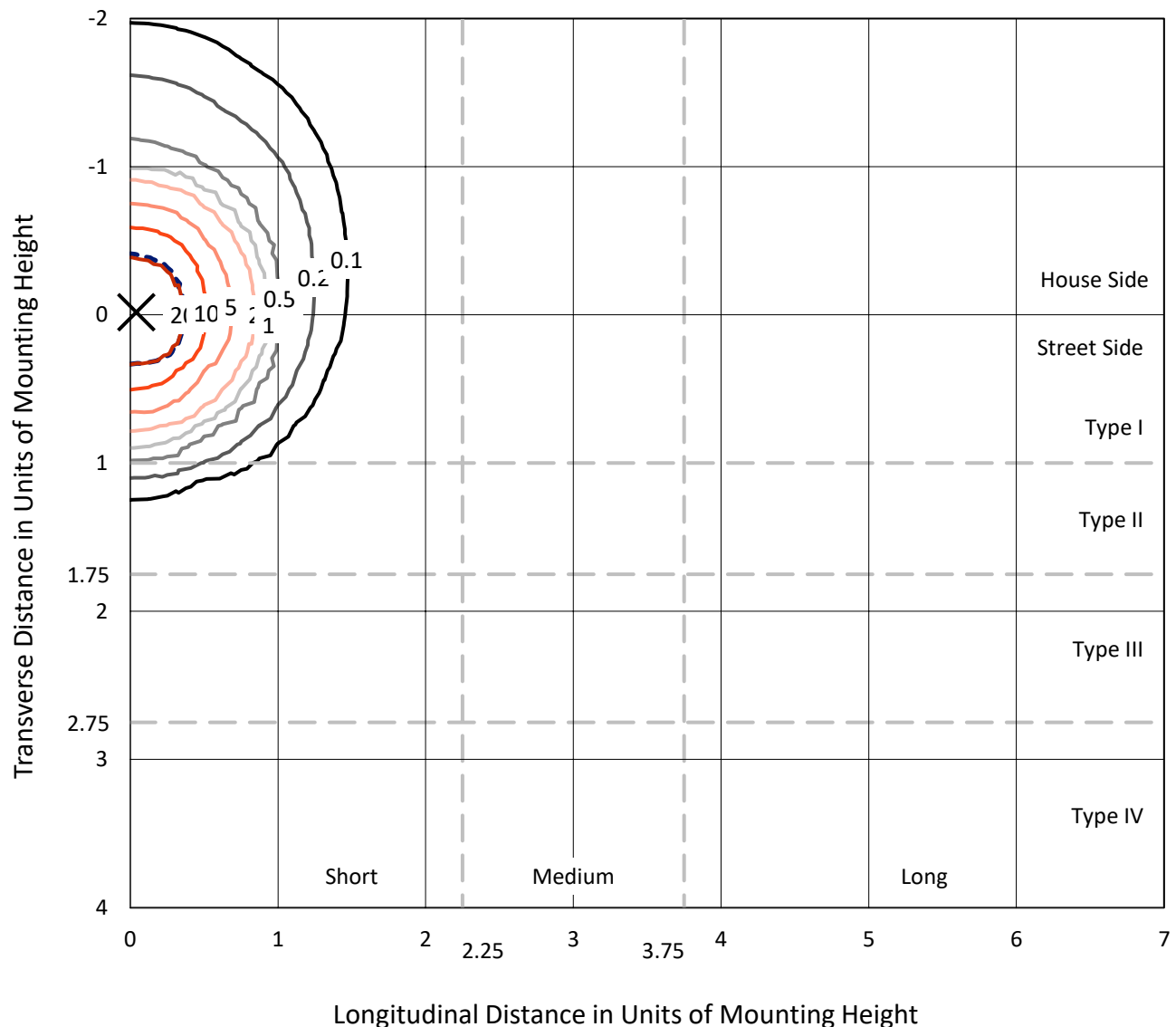


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



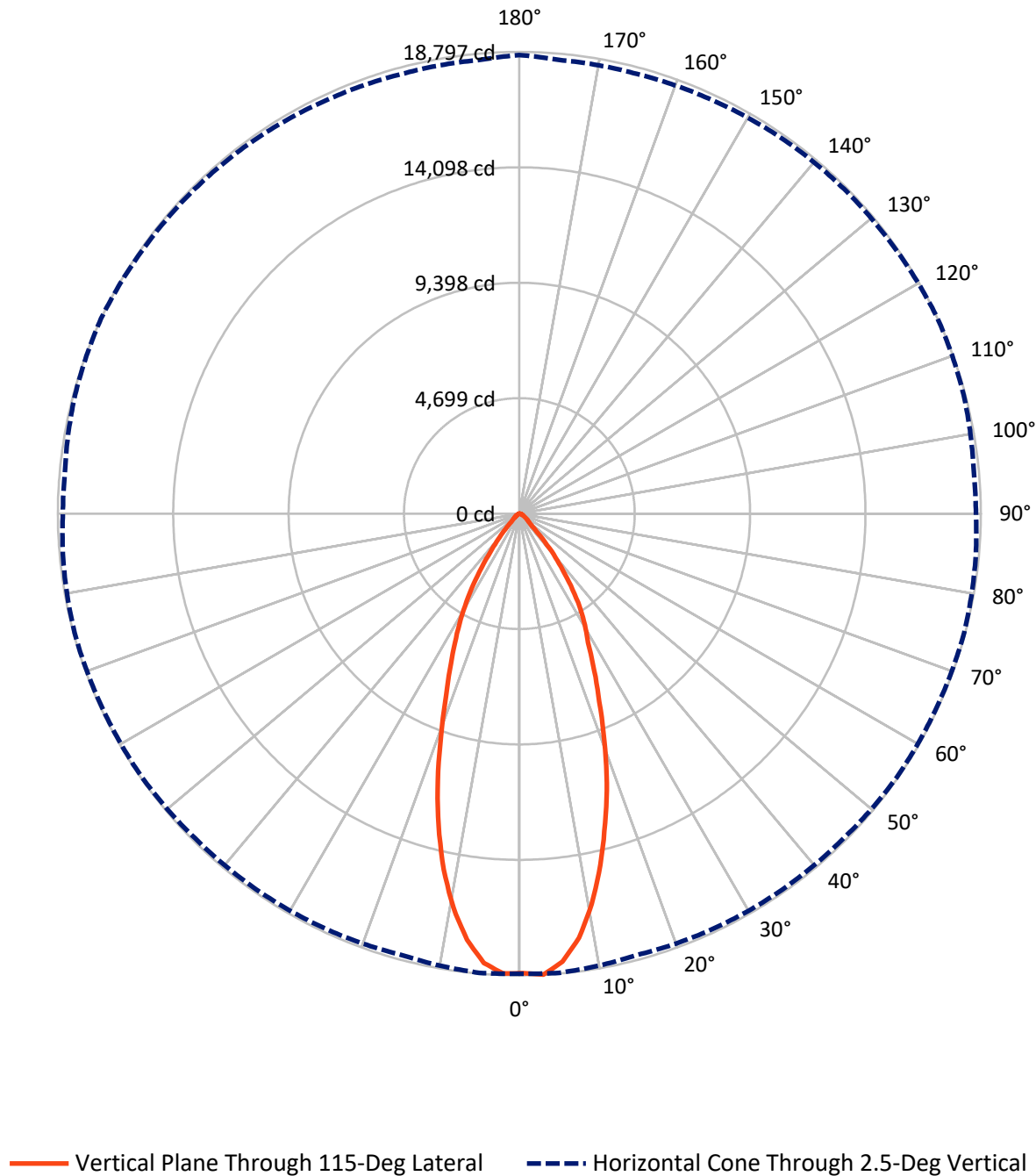
Based on 20 foot mounting height. Maximum calculated value = 46.8 fc

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	6423.0	0.0	6423.0
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	5215.4	0.0	5215.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	11638.4	0.0	11638.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1678.0	14.4
10°-20°	3546.5	30.5
20°-30°	3200.9	27.5
30°-40°	2118.2	18.2
40°-50°	634.5	5.5
50°-60°	254.5	2.2
60°-70°	131.8	1.1
70°-80°	57.2	0.5
80°-90°	16.6	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°	11638.4	100.0
0°-180°	11638.4	100.0

Coefficient of Utilization



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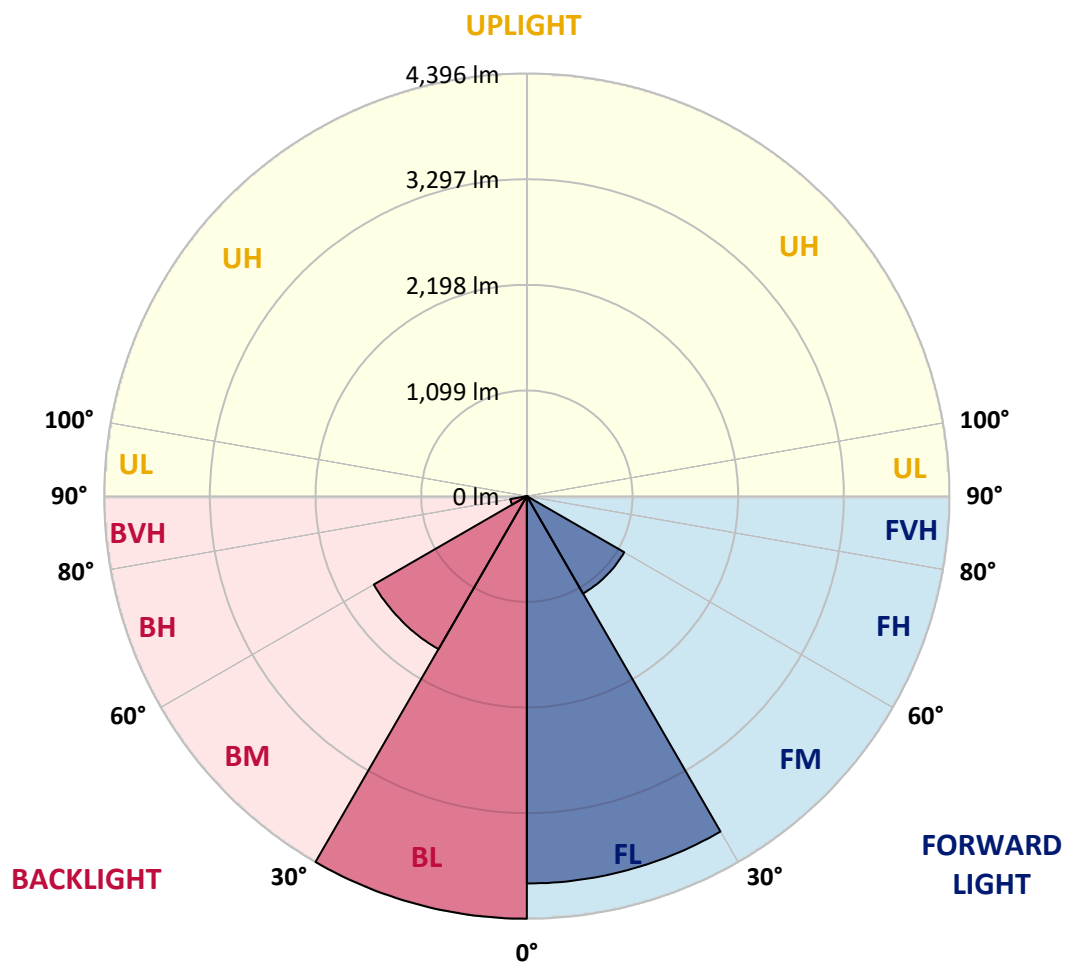
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4029.3	34.6			
FM	(30°-60°)	1169.2	10.0			
FH	(60°-80°)	14.5	0.1			G0/660
FVH	(80°-90°)	2.4	0.0			G0/10
BL	(0°-30°)	4396.1	37.8	B4/5000		
BM	(30°-60°)	1838.1	15.8	B2/2500		
BH	(60°-80°)	174.5	1.5	B1/500		G1/500
BVH	(80°-90°)	14.2	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°	18708.8	18708.8	18708.8	18708.8	18708.8	18708.8	18708.8	18708.8	18708.8	18708.8
2.5°	18732.6	18765.9	18599.3	18656.4	18680.2	18687.4	18746.9	18737.3	18754.0	18665.9
5°	18485.0	18420.8	18297.0	18299.4	18292.2	18225.6	18361.3	18351.7	18323.2	18218.4
7.5°	17642.4	17735.3	17502.0	17497.2	17492.5	17411.5	17590.1	17480.6	17504.4	17354.4
10°	16409.5	16421.4	16214.3	16195.2	16211.9	16107.2	16314.2	16271.4	16316.6	16159.5
12.5°	14898.0	14964.6	14736.1	14702.8	14769.5	14621.9	14788.5	14809.9	14743.3	14721.9
15°	11684.7	11860.8	12294.0	12955.7	13127.1	13003.3	13136.6	13134.2	13162.8	13000.9
17.5°	8902.1	8918.8	8816.5	9133.0	10965.8	11560.9	11589.4	11363.3	11191.9	11132.4
20°	7771.5	7828.6	7735.8	7762.0	8054.8	9799.5	9866.1	9525.8	9233.0	9209.2
22.5°	6871.8	6907.5	6840.8	6862.3	6876.5	7081.2	8240.4	7940.5	7800.1	7693.0
25°	6110.1	6110.1	6074.4	6081.5	6067.3	5765.0	6360.0	6702.8	6621.9	6583.8
27.5°	5415.1	5424.6	5379.4	5405.6	5231.8	4743.8	4672.4	5684.0	5598.4	5529.3
30°	4755.7	4786.7	4743.8	4758.1	4379.7	3979.8	3775.1	4741.5	4848.6	4829.5
32.5°	3579.9	3720.3	4065.5	4079.8	3565.6	3258.6	3168.1	3806.0	4213.0	4177.3
35°	2218.4	2211.3	2225.5	2911.0	2734.9	2525.4	2558.8	2875.3	3334.7	3318.1
37.5°	1692.4	1690.0	1716.2	1647.1	1792.3	1916.1	1942.3	1942.3	2435.0	2437.4
40°	1283.0	1273.4	1271.1	1161.6	973.5	1437.7	1394.8	1359.1	1692.4	1728.1
42.5°	818.8	847.4	825.9	706.9	635.5	785.5	875.9	847.4	1044.9	1071.1
45°	457.0	457.0	438.0	371.3	368.9	397.5	499.9	466.5	535.6	571.3
47.5°	221.4	216.6	238.0	292.8	304.7	295.2	357.0	371.3	404.6	438.0
50°	178.5	178.5	169.0	152.3	252.3	242.8	264.2	283.2	302.3	330.9
52.5°	150.0	150.0	138.1	128.5	145.2	185.7	188.0	223.7	221.4	261.8
55°	76.2	78.5	111.9	111.9	97.6	152.3	154.7	180.9	185.7	219.0
57.5°	7.1	9.5	14.3	69.0	76.2	83.3	116.6	133.3	154.7	169.0
60°	2.4	2.4	4.8	9.5	45.2	57.1	73.8	88.1	107.1	140.4
62.5°	0.0	0.0	2.4	4.8	9.5	35.7	40.5	45.2	64.3	88.1
65°	0.0	0.0	2.4	2.4	4.8	11.9	16.7	28.6	40.5	54.7
67.5°	0.0	0.0	2.4	2.4	4.8	7.1	9.5	14.3	19.0	35.7
70°	0.0	0.0	2.4	2.4	4.8	7.1	7.1	9.5	11.9	16.7
72.5°	0.0	0.0	2.4	2.4	4.8	9.5	7.1	7.1	9.5	11.9
75°	0.0	0.0	2.4	2.4	4.8	7.1	7.1	7.1	7.1	7.1
77.5°	0.0	0.0	2.4	2.4	4.8	7.1	7.1	7.1	4.8	4.8
80°	0.0	0.0	2.4	2.4	4.8	7.1	9.5	9.5	4.8	4.8
82.5°	0.0	0.0	2.4	4.8	4.8	11.9	14.3	11.9	4.8	2.4
85°	0.0	0.0	2.4	2.4	7.1	11.9	11.9	7.1	4.8	2.4
87.5°	0.0	0.0	0.0	2.4	2.4	4.8	7.1	7.1	2.4	2.4
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°
18708.8	0°	18708.8	18708.8	18708.8	18708.8	18708.8	18708.8	18708.8	18708.8	18708.8
18594.5	2.5°	18585.0	18730.2	18796.8	18727.8	18694.5	18646.9	18577.9	18530.3	18539.8
18161.3	5°	18120.9	18273.2	18325.6	18266.0	18216.1	18189.9	18178.0	18201.8	18263.7
17290.1	7.5°	17285.4	17383.0	17440.1	17411.5	17342.5	17421.1	17442.5	17428.2	17518.6
16111.9	10°	16116.7	16223.8	16171.4	16183.3	16102.4	16142.9	16131.0	16183.3	16273.8
14705.2	12.5°	14610.0	14712.3	14671.9	14664.7	14579.0	14655.2	14607.6	14664.7	14783.7
12934.3	15°	13027.1	13091.4	13065.2	13024.7	12948.6	12974.7	13122.3	13112.8	13165.2
11096.7	17.5°	11049.1	11358.6	11527.6	11563.3	11501.4	11553.7	11658.5	11632.3	11751.3
9159.2	20°	9142.5	9454.4	9870.9	10208.9	10216.0	10223.2	10289.8	10306.5	10408.8
7695.4	22.5°	7662.0	7883.4	8330.9	8778.4	9087.8	9152.1	9144.9	9168.7	9197.3
6531.4	25°	6514.7	6676.6	7086.0	7395.4	7938.1	8119.0	8171.4	8119.0	8135.7
5505.5	27.5°	5567.4	5815.0	5950.6	6281.5	6812.3	7231.2	7214.5	7183.6	7188.4
4791.4	30°	4789.1	5055.7	5255.6	5355.6	5755.4	6360.0	6421.9	6333.8	6336.2
4160.7	32.5°	4134.5	4217.8	4513.0	4593.9	4851.0	5400.8	5612.6	5546.0	5534.1
3327.6	35°	3425.2	3470.4	3606.1	3765.6	3917.9	4334.4	4684.3	4622.4	4653.4
2446.9	37.5°	2437.4	2623.0	2754.0	2884.9	2994.4	3256.2	3677.5	3620.4	3651.3
1732.8	40°	1718.5	1801.9	2028.0	2085.1	2247.0	2368.3	2725.4	2706.3	2744.4
1075.9	42.5°	1056.8	1116.3	1230.6	1285.3	1394.8	1463.9	1673.3	1697.1	1747.1
595.1	45°	599.8	626.0	704.6	764.1	845.0	873.6	947.3	980.7	1009.2
461.8	47.5°	457.0	485.6	537.9	590.3	656.9	680.8	733.1	783.1	809.3
357.0	50°	373.7	399.9	454.6	497.5	564.1	585.5	628.4	683.1	716.5
271.3	52.5°	283.2	321.3	388.0	433.2	502.2	528.4	568.9	623.6	654.6
223.7	55°	233.3	261.8	321.3	383.2	447.5	483.2	509.4	576.0	609.3
183.3	57.5°	199.9	221.4	259.4	333.2	388.0	440.3	461.8	523.7	557.0
145.2	60°	152.3	185.7	219.0	276.1	338.0	392.7	416.5	471.3	497.5
104.7	62.5°	126.2	147.6	190.4	221.4	290.4	347.5	371.3	421.3	440.3
69.0	65°	88.1	119.0	159.5	178.5	242.8	297.5	330.9	368.9	388.0
40.5	67.5°	52.4	88.1	126.2	152.3	197.6	252.3	288.0	323.7	340.4
23.8	70°	33.3	69.0	100.0	128.5	154.7	207.1	249.9	280.9	273.7
14.3	72.5°	19.0	42.8	73.8	104.7	128.5	173.8	214.2	238.0	169.0
9.5	75°	11.9	30.9	61.9	85.7	104.7	138.1	176.1	180.9	104.7
4.8	77.5°	9.5	23.8	47.6	69.0	71.4	102.4	123.8	140.4	78.5
4.8	80°	4.8	19.0	40.5	57.1	45.2	71.4	95.2	109.5	61.9
2.4	82.5°	4.8	11.9	30.9	40.5	33.3	54.7	69.0	78.5	52.4
2.4	85°	2.4	9.5	16.7	23.8	23.8	35.7	30.9	38.1	33.3
2.4	87.5°	2.4	4.8	9.5	11.9	9.5	14.3	16.7	16.7	14.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
18708.8
18668.3
18392.2
17609.1
16309.5
14805.2
13177.1
11732.3
10387.4
9144.9
8109.5
7195.5
6338.6
5562.6
4682.0
3677.5
2758.7
1804.2
1006.8
821.2
730.7
676.0
618.9
571.3
502.2
442.7
388.0
338.0
252.3
150.0
97.6
78.5
64.3
57.1
33.3
11.9
0.0

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