

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: P636549

Luminaire Tested: **IFLD-M-SA4A-950-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636549
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-950-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11042.4 lumens
Efficiency: N/A
Efficacy: 85.9 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



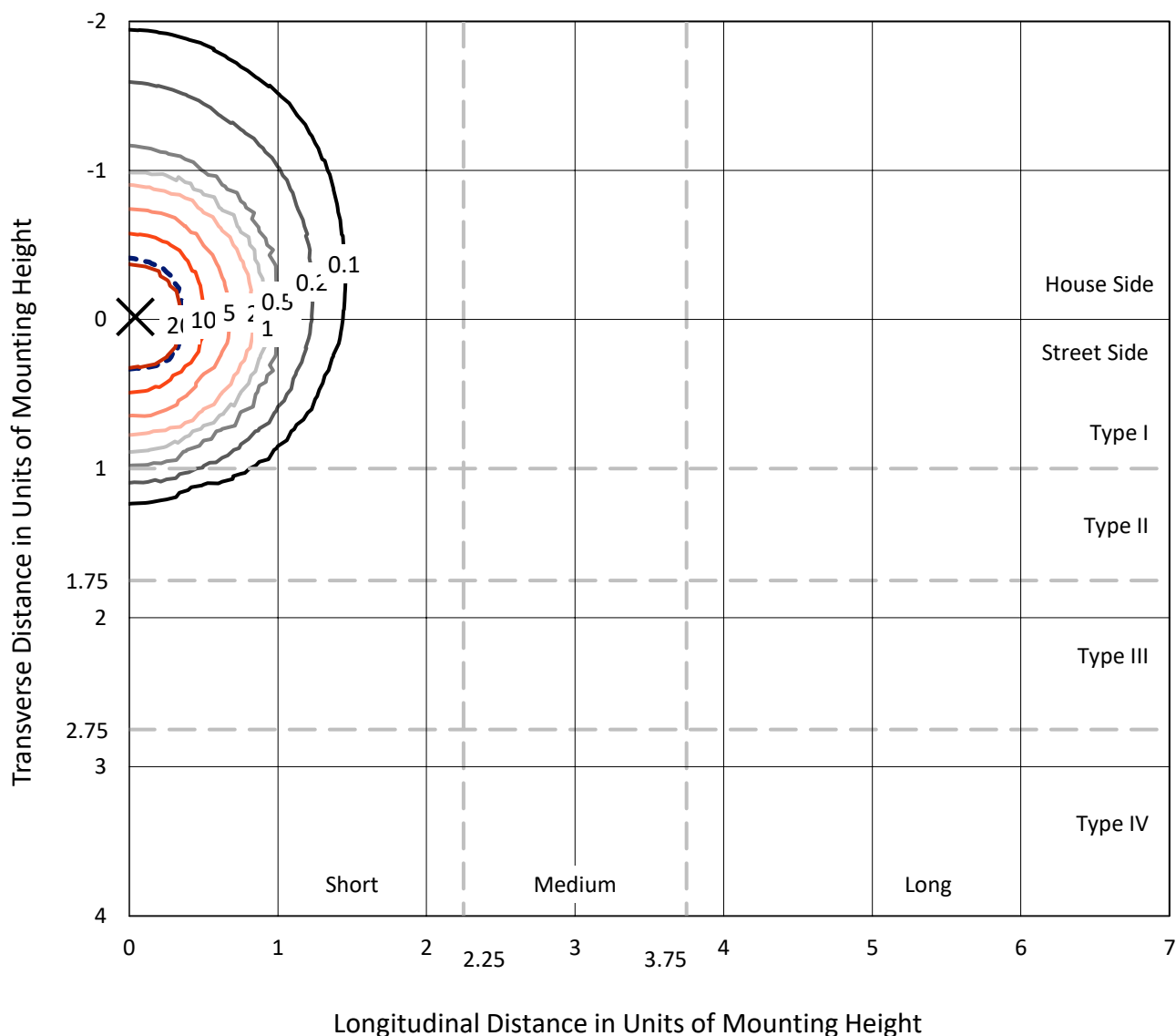
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

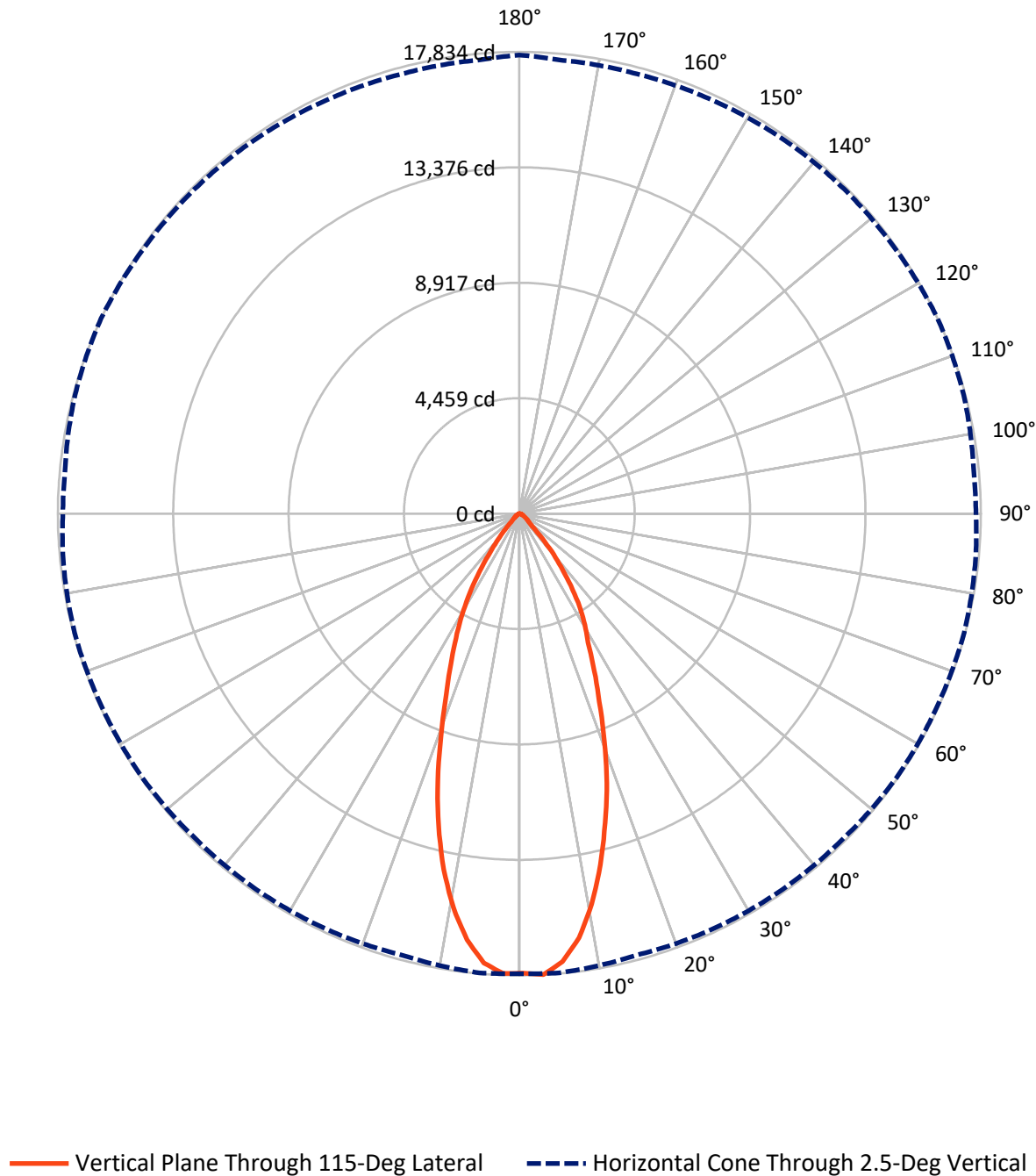


Based on 20 foot mounting height. Maximum calculated value = 44.4 fc

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	6094.1	0.0	6094.1
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	4948.3	0.0	4948.3
	% Fixture	44.8	0.0	44.8
Total	Lumens	11042.4	0.0	11042.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1592.1	14.4
10°-20°	3364.9	30.5
20°-30°	3037.0	27.5
30°-40°	2009.8	18.2
40°-50°	602.0	5.5
50°-60°	241.5	2.2
60°-70°	125.1	1.1
70°-80°	54.3	0.5
80°-90°	15.8	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°	11042.4	100.0
0°-180°	11042.4	100.0

Coefficient of Utilization



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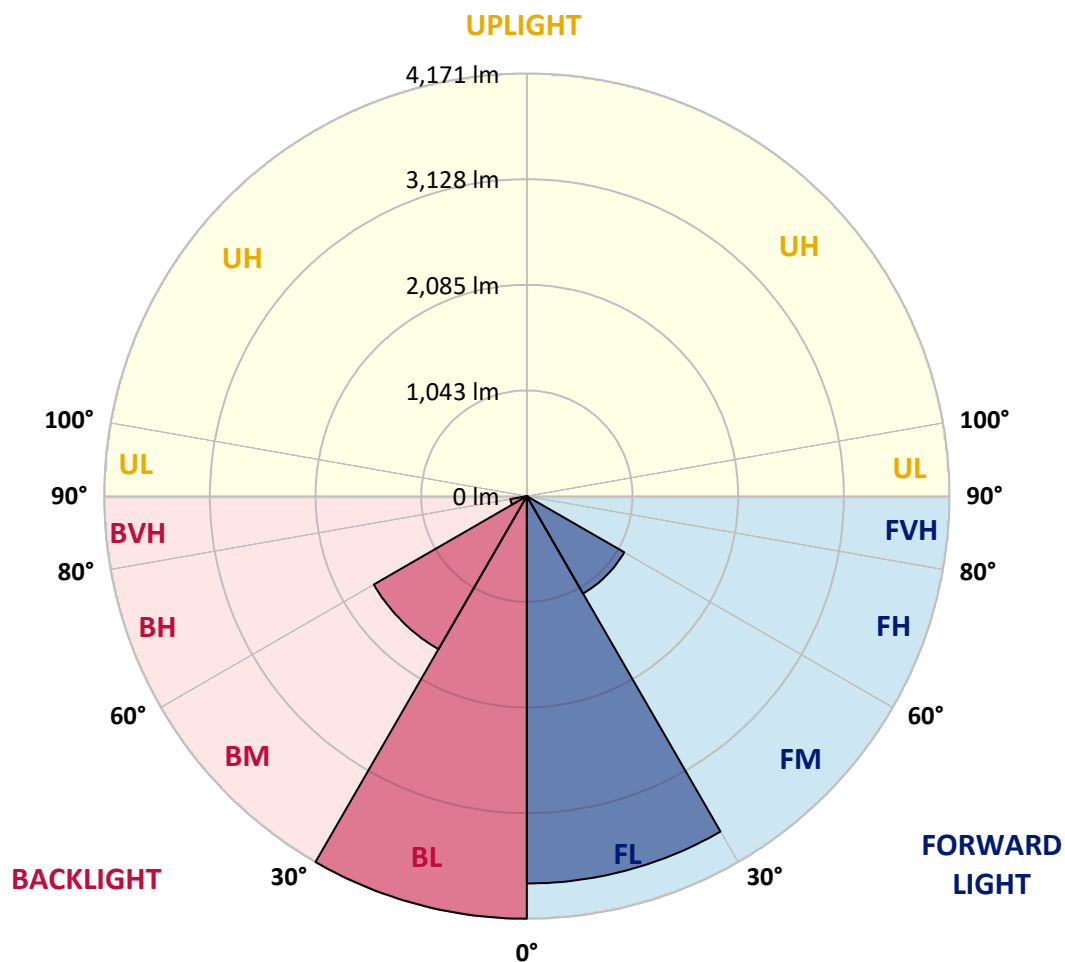
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3823.0	34.6			
FM	(30°-60°)	1109.3	10.0			
FH	(60°-80°)	13.7	0.1			G0/660
FVH	(80°-90°)	2.3	0.0			G0/10
BL	(0°-30°)	4171.0	37.8	B4/5000		
BM	(30°-60°)	1744.0	15.8	B2/2500		
BH	(60°-80°)	165.6	1.5	B1/500		G1/500
BVH	(80°-90°)	13.5	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°	17750.6	17750.6	17750.6	17750.6	17750.6	17750.6	17750.6	17750.6	17750.6	17750.6
2.5°	17773.2	17804.8	17646.7	17700.9	17723.5	17730.3	17786.8	17777.7	17793.5	17710.0
5°	17538.3	17477.4	17359.9	17362.2	17355.4	17292.2	17420.9	17411.9	17384.8	17285.4
7.5°	16738.9	16827.0	16605.6	16601.1	16596.6	16519.8	16689.2	16585.3	16607.9	16465.6
10°	15569.1	15580.4	15383.9	15365.8	15381.6	15282.3	15478.7	15438.1	15481.0	15331.9
12.5°	14135.0	14198.2	13981.4	13949.8	14013.1	13873.0	14031.1	14051.4	13988.2	13967.9
15°	11086.2	11253.4	11664.4	12292.2	12454.8	12337.4	12463.8	12461.6	12488.7	12335.1
17.5°	8446.2	8462.0	8364.9	8665.3	10404.2	10968.8	10995.9	10781.4	10618.8	10562.3
20°	7373.5	7427.7	7339.6	7364.5	7642.3	9297.6	9360.9	9037.9	8760.1	8737.6
22.5°	6519.9	6553.7	6490.5	6510.8	6524.4	6718.6	7818.4	7533.9	7400.6	7299.0
25°	5797.2	5797.2	5763.3	5770.1	5756.5	5469.7	6034.3	6359.5	6282.7	6246.6
27.5°	5137.7	5146.8	5103.9	5128.7	4963.9	4500.9	4433.1	5392.9	5311.6	5246.1
30°	4512.2	4541.5	4500.9	4514.4	4155.4	3776.0	3581.7	4498.6	4600.3	4582.2
32.5°	3396.6	3529.8	3857.3	3870.8	3383.0	3091.7	3005.9	3611.1	3997.3	3963.4
35°	2104.8	2098.0	2111.6	2762.0	2594.8	2396.1	2427.7	2728.1	3163.9	3148.1
37.5°	1605.7	1603.4	1628.3	1562.8	1700.5	1818.0	1842.8	1842.8	2310.3	2312.5
40°	1217.3	1208.2	1206.0	1102.1	923.7	1364.0	1323.4	1289.5	1605.7	1639.6
42.5°	776.9	804.0	783.6	670.7	603.0	745.3	831.1	804.0	991.4	1016.3
45°	433.6	433.6	415.5	352.3	350.0	377.1	474.3	442.6	508.1	542.0
47.5°	210.0	205.5	225.8	277.8	289.1	280.0	338.8	352.3	383.9	415.5
50°	169.4	169.4	160.3	144.5	239.4	230.4	250.7	268.7	286.8	313.9
52.5°	142.3	142.3	131.0	122.0	137.8	176.2	178.4	212.3	210.0	248.4
55°	72.3	74.5	106.1	106.1	92.6	144.5	146.8	171.6	176.2	207.8
57.5°	6.8	9.0	13.6	65.5	72.3	79.0	110.7	126.5	146.8	160.3
60°	2.3	2.3	4.5	9.0	42.9	54.2	70.0	83.6	101.6	133.2
62.5°	0.0	0.0	2.3	4.5	9.0	33.9	38.4	42.9	61.0	83.6
65°	0.0	0.0	2.3	2.3	4.5	11.3	15.8	27.1	38.4	51.9
67.5°	0.0	0.0	2.3	2.3	4.5	6.8	9.0	13.6	18.1	33.9
70°	0.0	0.0	2.3	2.3	4.5	6.8	6.8	9.0	11.3	15.8
72.5°	0.0	0.0	2.3	2.3	4.5	9.0	6.8	6.8	9.0	11.3
75°	0.0	0.0	2.3	2.3	4.5	6.8	6.8	6.8	6.8	6.8
77.5°	0.0	0.0	2.3	2.3	4.5	6.8	6.8	6.8	4.5	4.5
80°	0.0	0.0	2.3	2.3	4.5	6.8	9.0	9.0	4.5	4.5
82.5°	0.0	0.0	2.3	4.5	4.5	11.3	13.6	11.3	4.5	2.3
85°	0.0	0.0	2.3	2.3	6.8	11.3	11.3	6.8	4.5	2.3
87.5°	0.0	0.0	0.0	2.3	2.3	4.5	6.8	6.8	2.3	2.3
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°
17750.6	0°	17750.6	17750.6	17750.6	17750.6	17750.6	17750.6	17750.6	17750.6	17750.6
17642.2	2.5°	17633.2	17771.0	17834.2	17768.7	17737.1	17691.9	17626.4	17581.2	17590.3
17231.2	5°	17192.8	17337.3	17387.0	17330.6	17283.1	17258.3	17247.0	17269.6	17328.3
16404.6	7.5°	16400.1	16492.7	16546.9	16519.8	16454.3	16528.9	16549.2	16535.6	16621.5
15286.8	10°	15291.3	15392.9	15343.2	15354.5	15277.7	15316.1	15304.8	15354.5	15440.3
13952.1	12.5°	13861.7	13958.9	13920.5	13913.7	13832.4	13904.7	13859.5	13913.7	14026.6
12271.9	15°	12359.9	12420.9	12396.1	12357.7	12285.4	12310.3	12450.3	12441.2	12490.9
10528.4	17.5°	10483.3	10776.8	10937.2	10971.1	10912.3	10962.0	11061.4	11036.6	11149.5
8690.1	20°	8674.3	8970.2	9365.4	9686.1	9692.8	9699.6	9762.8	9778.7	9875.8
7301.2	22.5°	7269.6	7479.7	7904.2	8328.8	8622.4	8683.4	8676.6	8699.2	8726.3
6196.9	25°	6181.1	6334.7	6723.1	7016.7	7531.6	7703.2	7752.9	7703.2	7719.0
5223.6	27.5°	5282.3	5517.1	5645.9	5959.8	6463.4	6860.9	6845.1	6815.7	6820.2
4546.1	30°	4543.8	4796.7	4986.4	5081.3	5460.7	6034.3	6093.0	6009.5	6011.7
3947.6	32.5°	3922.8	4001.8	4281.8	4358.6	4602.5	5124.2	5325.2	5262.0	5250.7
3157.2	35°	3249.8	3292.7	3421.4	3572.7	3717.2	4112.5	4444.4	4385.7	4415.1
2321.6	37.5°	2312.5	2488.7	2612.9	2737.1	2841.0	3089.4	3489.1	3434.9	3464.3
1644.1	40°	1630.5	1709.6	1924.1	1978.3	2131.9	2247.1	2585.8	2567.7	2603.9
1020.8	42.5°	1002.7	1059.2	1167.6	1219.5	1323.4	1388.9	1587.6	1610.2	1657.6
564.6	45°	569.1	593.9	668.5	724.9	801.7	828.8	898.8	930.4	957.5
438.1	47.5°	433.6	460.7	510.4	560.1	623.3	645.9	695.6	743.0	767.8
338.8	50°	354.6	379.4	431.3	472.0	535.2	555.6	596.2	648.1	679.8
257.5	52.5°	268.7	304.9	368.1	411.0	476.5	501.4	539.7	591.7	621.0
212.3	55°	221.3	248.4	304.9	363.6	424.6	458.4	483.3	546.5	578.1
173.9	57.5°	189.7	210.0	246.2	316.2	368.1	417.8	438.1	496.8	528.5
137.8	60°	144.5	176.2	207.8	262.0	320.7	372.6	395.2	447.2	472.0
99.4	62.5°	119.7	140.0	180.7	210.0	275.5	329.7	352.3	399.7	417.8
65.5	65°	83.6	112.9	151.3	169.4	230.4	282.3	313.9	350.0	368.1
38.4	67.5°	49.7	83.6	119.7	144.5	187.4	239.4	273.3	307.1	322.9
22.6	70°	31.6	65.5	94.9	122.0	146.8	196.5	237.1	266.5	259.7
13.6	72.5°	18.1	40.7	70.0	99.4	122.0	164.9	203.3	225.8	160.3
9.0	75°	11.3	29.4	58.7	81.3	99.4	131.0	167.1	171.6	99.4
4.5	77.5°	9.0	22.6	45.2	65.5	67.8	97.1	117.4	133.2	74.5
4.5	80°	4.5	18.1	38.4	54.2	42.9	67.8	90.3	103.9	58.7
2.3	82.5°	4.5	11.3	29.4	38.4	31.6	51.9	65.5	74.5	49.7
2.3	85°	2.3	9.0	15.8	22.6	22.6	33.9	29.4	36.1	31.6
2.3	87.5°	2.3	4.5	9.0	11.3	9.0	13.6	15.8	15.8	13.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
17750.6
17712.2
17450.3
16707.3
15474.2
14046.9
12502.2
11131.4
9855.4
8676.6
7694.2
6827.0
6014.0
5277.8
4442.2
3489.1
2617.4
1711.8
955.3
779.1
693.3
641.4
587.2
542.0
476.5
420.1
368.1
320.7
239.4
142.3
92.6
74.5
61.0
54.2
31.6
11.3
0.0

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