

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: P637719

Luminaire Tested: **IFLD-L-SA8A-760-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637719
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-760-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32915.2 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 247.8
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



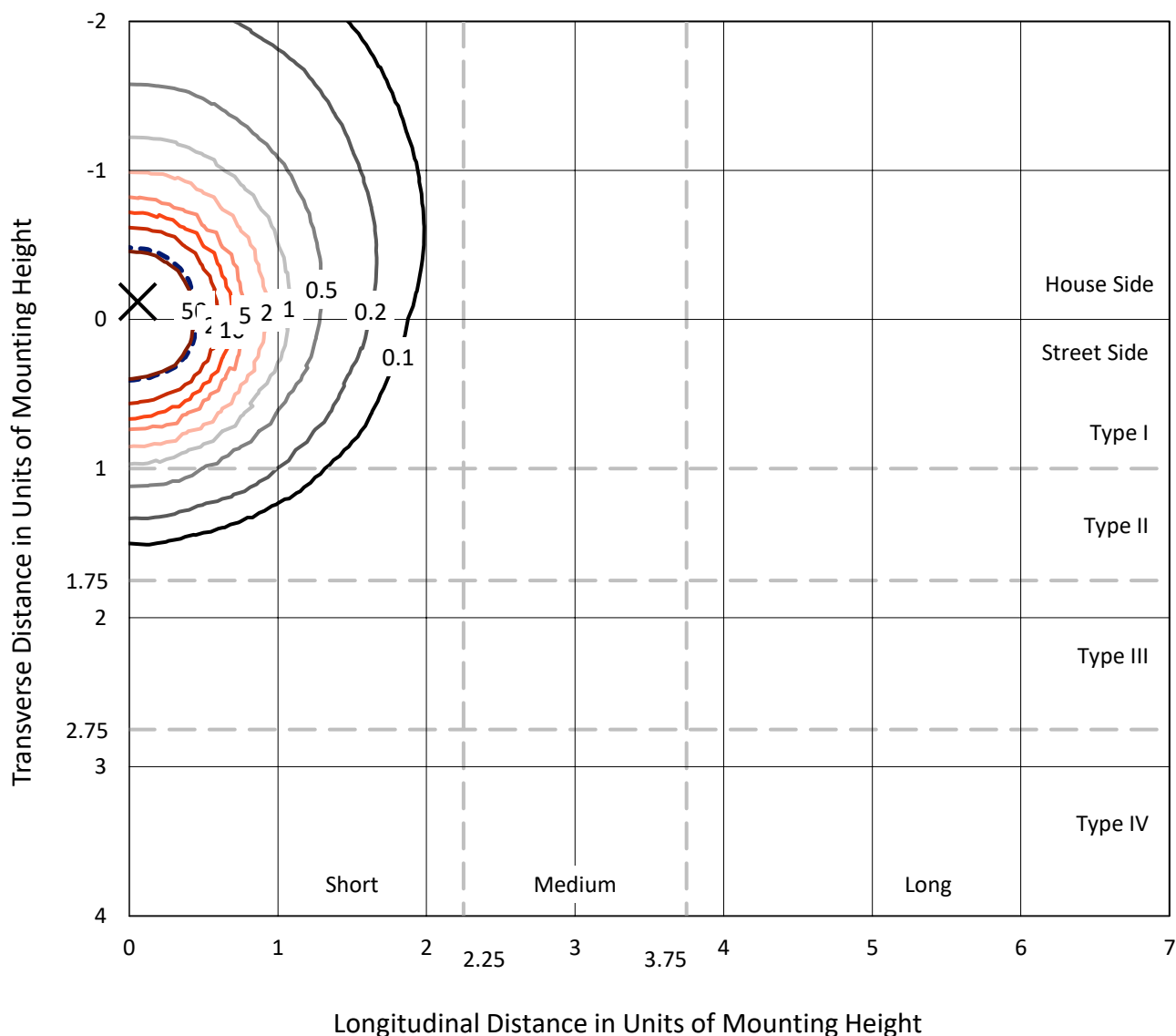
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

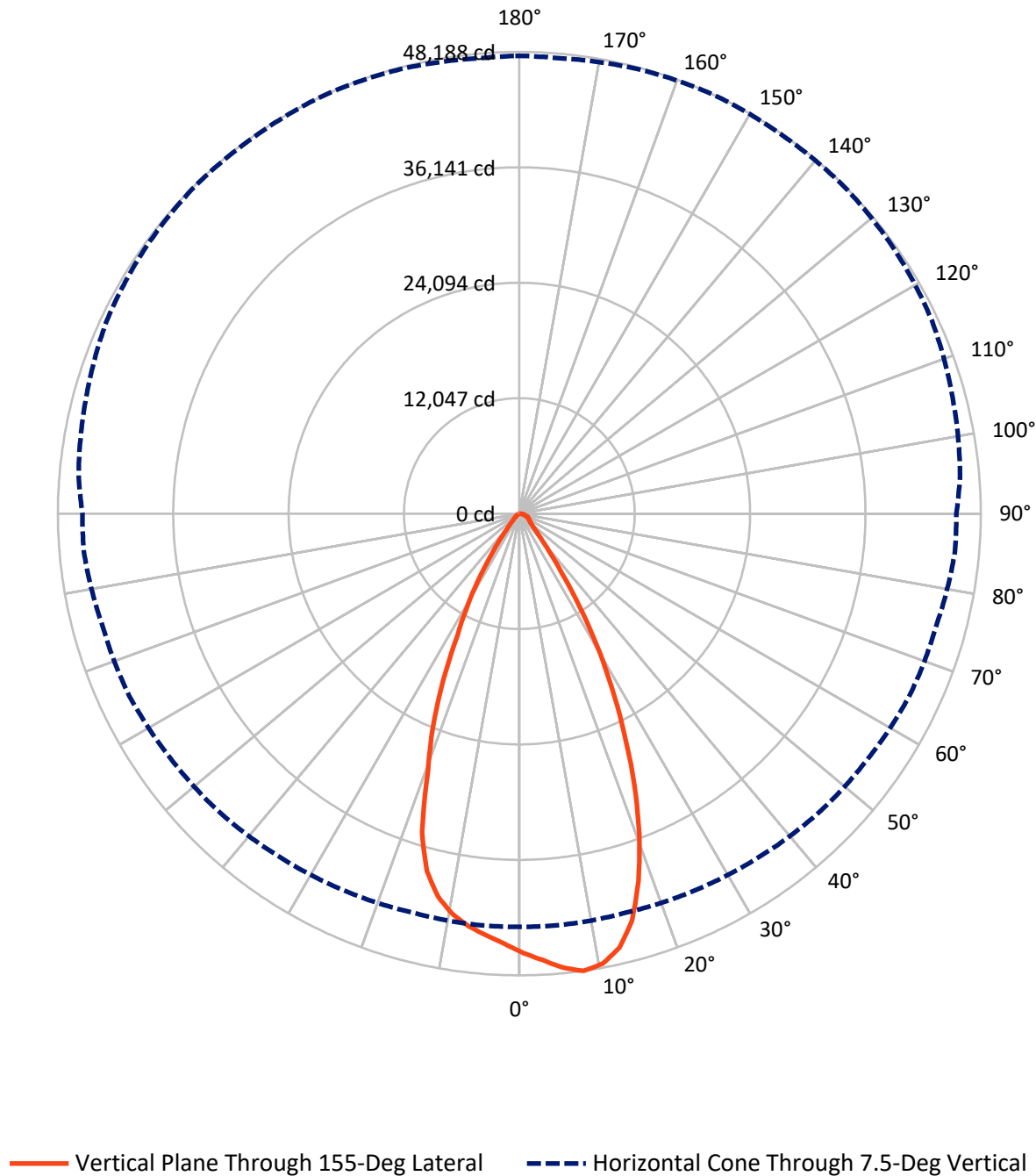


Based on 20 foot mounting height. Maximum calculated value = 116.5 fc

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	18170.4	0.0	18170.4
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	14744.8	0.0	14744.8
	% Fixture	44.8	0.0	44.8
Total	Lumens	32915.2	0.0	32915.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4372.4	13.3
10°-20°	11337.7	34.4
20°-30°	10388.5	31.6
30°-40°	4197.0	12.8
40°-50°	1231.2	3.7
50°-60°	688.4	2.1
60°-70°	418.1	1.3
70°-80°	212.4	0.6
80°-90°	69.5	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°	32915.2	100.0
0°-180°	32915.2	100.0

Coefficient of Utilization



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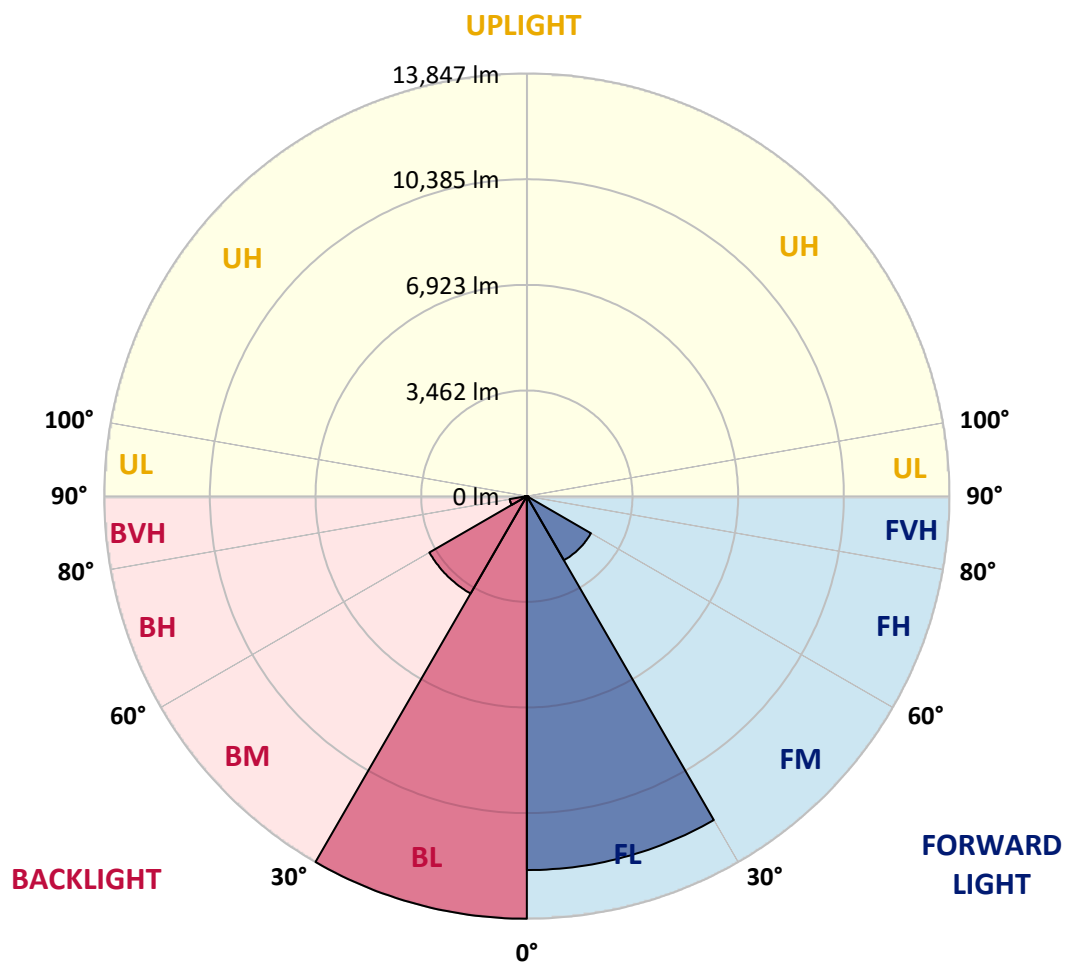
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	12251.9	37.2			
FM	(30°-60°)	2428.1	7.4			
FH	(60°-80°)	58.8	0.2			G0/660
FVH	(80°-90°)	6.0	0.0			G0/10
BL	(0°-30°)	13846.8	42.1	B5		
BM	(30°-60°)	3688.4	11.2	B3/5000		
BH	(60°-80°)	571.7	1.7	B2/1000		G2/1000
BVH	(80°-90°)	63.5	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-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	45853.4	45853.4	45853.4	45853.4	45853.4	45853.4	45853.4	45853.4	45853.4	45853.4
2.5°	44859.0	45010.8	44707.2	44908.3	45063.9	45435.9	45466.3	45595.3	45640.9	45978.7
5°	44008.8	44126.5	43879.8	44149.2	44369.4	44699.6	44953.9	45310.7	45508.0	45906.5
7.5°	43124.4	43151.0	43101.7	43386.3	43716.5	44172.0	44487.0	44953.9	45075.3	45644.7
10°	42054.1	41860.5	41955.4	42372.9	42866.4	43564.7	43781.1	44247.9	44464.3	45045.0
12.5°	40346.1	40444.8	40327.2	40858.5	41268.4	42061.7	42289.4	42760.1	43173.8	43686.2
15°	37939.8	37882.9	38122.0	38535.7	38979.8	39609.8	39978.0	40490.4	40805.4	41336.8
17.5°	32531.2	32724.8	33711.6	34747.8	35658.7	36395.0	36835.3	37260.4	37488.1	38065.0
20°	28094.3	27851.4	27984.2	28568.7	31161.0	32288.3	32751.4	32853.8	32948.7	33404.2
22.5°	23133.6	23053.9	23497.9	24154.5	24769.4	27369.3	27999.4	27760.3	27957.6	28386.5
25°	17178.4	17580.7	17975.5	19235.6	20032.6	21307.9	22503.5	22609.8	22681.9	22951.4
27.5°	13982.6	13842.2	13834.6	14187.6	15364.2	16426.9	17444.1	17679.4	17637.7	17895.8
30°	10991.8	10946.2	10786.8	10870.3	10752.6	11697.7	12176.0	13143.8	13090.7	13098.3
32.5°	7928.8	7758.0	7693.5	7818.7	7697.3	7610.0	8027.5	9120.6	9101.6	9177.5
35°	4797.5	4774.7	4827.9	4937.9	4695.0	4687.4	4774.7	5803.3	5928.6	6050.0
37.5°	2649.3	2626.5	2668.2	3074.4	2994.6	2922.5	2945.3	3488.1	3848.6	3939.7
40°	1745.9	1742.1	1772.5	1844.6	1981.2	1954.7	1966.1	2209.0	2550.6	2630.3
42.5°	1169.0	1172.8	1191.8	1275.3	1294.3	1430.9	1408.1	1465.1	1783.9	1852.2
45°	933.7	929.9	941.3	903.3	926.1	1066.5	1081.7	1085.5	1358.8	1400.5
47.5°	736.3	736.3	747.7	698.4	687.0	774.3	854.0	865.4	1085.5	1142.4
50°	516.2	516.2	573.1	550.3	576.9	603.5	690.8	702.2	888.1	948.9
52.5°	379.5	387.1	394.7	398.5	485.8	482.0	557.9	611.1	671.8	778.1
55°	288.5	296.0	277.1	296.0	360.6	402.3	417.5	493.4	535.2	652.8
57.5°	189.8	208.8	193.6	227.7	242.9	311.2	334.0	406.1	432.7	535.2
60°	26.6	30.4	49.3	159.4	170.8	205.0	258.1	322.6	349.2	436.5
62.5°	3.8	3.8	11.4	26.6	113.9	136.6	193.6	223.9	258.1	326.4
65°	0.0	0.0	3.8	7.6	22.8	79.7	98.7	121.5	178.4	235.3
67.5°	0.0	0.0	3.8	7.6	11.4	26.6	41.8	79.7	102.5	163.2
70°	0.0	0.0	3.8	7.6	11.4	15.2	22.8	30.4	60.7	94.9
72.5°	0.0	0.0	3.8	7.6	11.4	15.2	19.0	22.8	26.6	60.7
75°	0.0	0.0	3.8	7.6	11.4	19.0	22.8	22.8	22.8	26.6
77.5°	0.0	0.0	3.8	7.6	15.2	22.8	26.6	22.8	19.0	19.0
80°	0.0	0.0	3.8	11.4	19.0	26.6	30.4	22.8	15.2	11.4
82.5°	0.0	0.0	3.8	11.4	19.0	26.6	30.4	26.6	15.2	11.4
85°	0.0	0.0	3.8	11.4	15.2	19.0	30.4	26.6	15.2	7.6
87.5°	0.0	0.0	0.0	3.8	3.8	7.6	15.2	11.4	7.6	3.8
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°
45853.4	0°	45853.4	45853.4	45853.4	45853.4	45853.4	45853.4	45853.4	45853.4	45853.4
45971.1	2.5°	46312.7	46483.5	46783.3	46866.8	47124.9	46828.9	46665.6	46680.8	46327.8
45857.2	5°	46312.7	46703.6	47227.4	47477.9	47667.7	47652.5	47610.7	47504.5	47246.4
45629.5	7.5°	46191.2	46828.9	47550.0	47884.0	48111.7	48092.8	48187.6	48016.8	47701.8
45223.4	10°	45800.3	46354.4	47242.6	47515.8	47884.0	47891.6	47773.9	47808.1	47246.4
43739.3	12.5°	44570.5	45003.2	45781.3	46092.5	46540.4	46612.5	46483.5	46434.1	45902.8
41306.4	15°	42190.8	42441.3	43223.1	43534.4	43978.4	43917.7	44046.8	43993.6	43526.8
38019.5	17.5°	38710.3	38790.0	39609.8	39871.7	40289.2	40452.4	40258.8	40505.6	40103.2
33483.9	20°	33719.2	34148.1	35070.4	35472.7	35715.6	36007.9	35753.6	36030.7	35560.0
27980.4	22.5°	28656.0	28910.3	29745.3	30326.0	30777.7	30834.6	30739.7	30933.3	30299.5
23129.8	25°	23126.0	23547.3	24207.7	24966.8	25410.9	25684.1	25437.4	25562.7	25460.2
17937.5	27.5°	18241.2	18616.9	19114.1	19679.7	20347.7	20704.4	20507.1	20719.6	20218.6
13375.3	30°	13386.7	13576.5	14138.2	14737.9	15470.4	15903.1	15922.1	16138.5	15842.4
9371.1	32.5°	9439.4	9606.4	9951.8	10350.3	11048.7	11530.7	11454.8	11485.2	11303.0
6107.0	35°	6137.3	6361.3	6608.0	6797.7	7219.0	7750.4	7708.7	7670.7	7545.4
4015.6	37.5°	4102.9	4190.2	4326.9	4497.7	4770.9	5104.9	5215.0	5078.4	5025.2
2710.0	40°	2774.5	2926.3	3017.4	3146.5	3275.5	3556.4	3632.3	3605.7	3552.6
1897.7	42.5°	1969.9	2087.5	2201.4	2326.6	2395.0	2569.6	2717.6	2675.8	2653.1
1442.3	45°	1495.4	1601.7	1734.5	1829.4	1897.7	2000.2	2140.7	2155.8	2121.7
1157.6	47.5°	1199.4	1294.3	1400.5	1518.2	1597.9	1662.4	1783.9	1829.4	1806.7
975.4	50°	1017.2	1089.3	1191.8	1309.4	1396.7	1453.7	1559.9	1609.3	1594.1
816.0	52.5°	865.4	952.7	1047.6	1146.2	1252.5	1309.4	1408.1	1480.2	1468.9
675.6	55°	717.3	831.2	929.9	1028.6	1150.0	1207.0	1294.3	1389.2	1370.2
573.1	57.5°	626.3	721.1	823.6	918.5	1047.6	1123.5	1203.2	1301.9	1298.1
470.6	60°	523.8	618.7	732.5	812.2	948.9	1055.1	1127.3	1229.7	1237.3
356.8	62.5°	417.5	535.2	622.5	732.5	857.8	983.0	1051.4	1153.8	1191.8
273.3	65°	311.2	440.3	539.0	649.0	766.7	907.1	967.9	1070.3	1108.3
197.4	67.5°	231.5	330.2	455.5	550.3	683.2	804.6	876.8	971.6	998.2
117.7	70°	174.6	254.3	379.5	463.1	599.7	698.4	770.5	842.6	876.8
79.7	72.5°	102.5	189.8	299.8	398.5	516.2	599.7	652.8	709.8	732.5
38.0	75°	72.1	144.2	235.3	330.2	417.5	485.8	535.2	584.5	607.3
19.0	77.5°	38.0	106.3	186.0	265.7	326.4	383.3	432.7	470.6	485.8
15.2	80°	22.8	75.9	151.8	208.8	250.5	299.8	349.2	375.8	372.0
11.4	82.5°	15.2	60.7	110.1	151.8	182.2	220.1	254.3	273.3	273.3
7.6	85°	11.4	41.8	75.9	117.7	121.5	151.8	159.4	178.4	182.2
7.6	87.5°	7.6	26.6	41.8	68.3	64.5	79.7	83.5	94.9	102.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
45853.4
46043.2
47329.9
47773.9
47083.2
45781.3
43674.8
40004.5
35522.1
30212.2
25395.7
20347.7
15895.5
11405.5
7435.4
5013.9
3560.2
2634.1
2117.9
1795.3
1590.3
1461.3
1370.2
1294.3
1237.3
1188.0
1104.5
998.2
869.2
724.9
599.7
482.0
368.2
269.5
178.4
98.7
0.0

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