

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: P477714

Luminaire Tested: **IFLD-L-SA7B-730-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477714
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-730-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

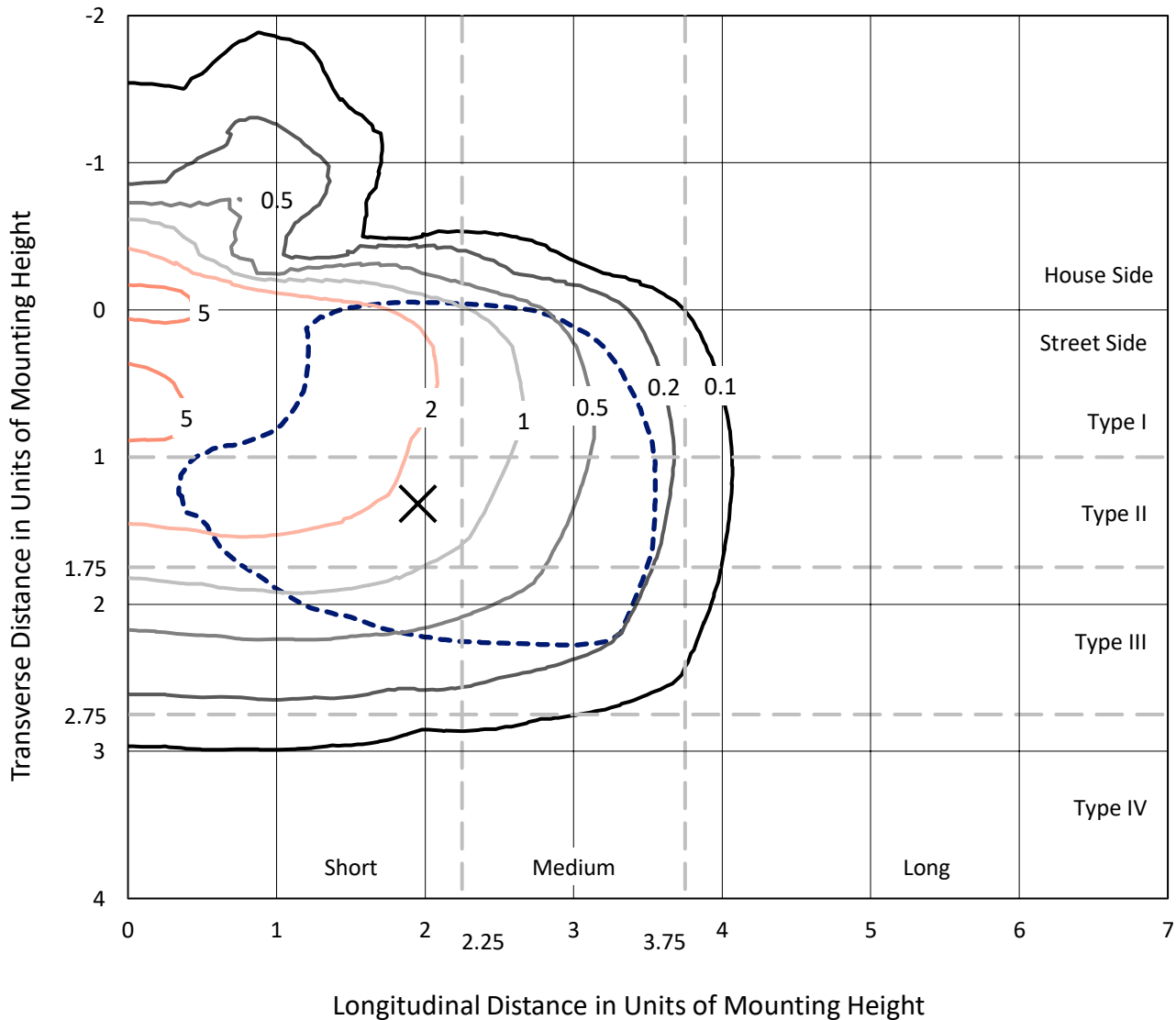
Lumens per Lamp: N/A
Luminaire Lumens: 31854.3 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 281
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

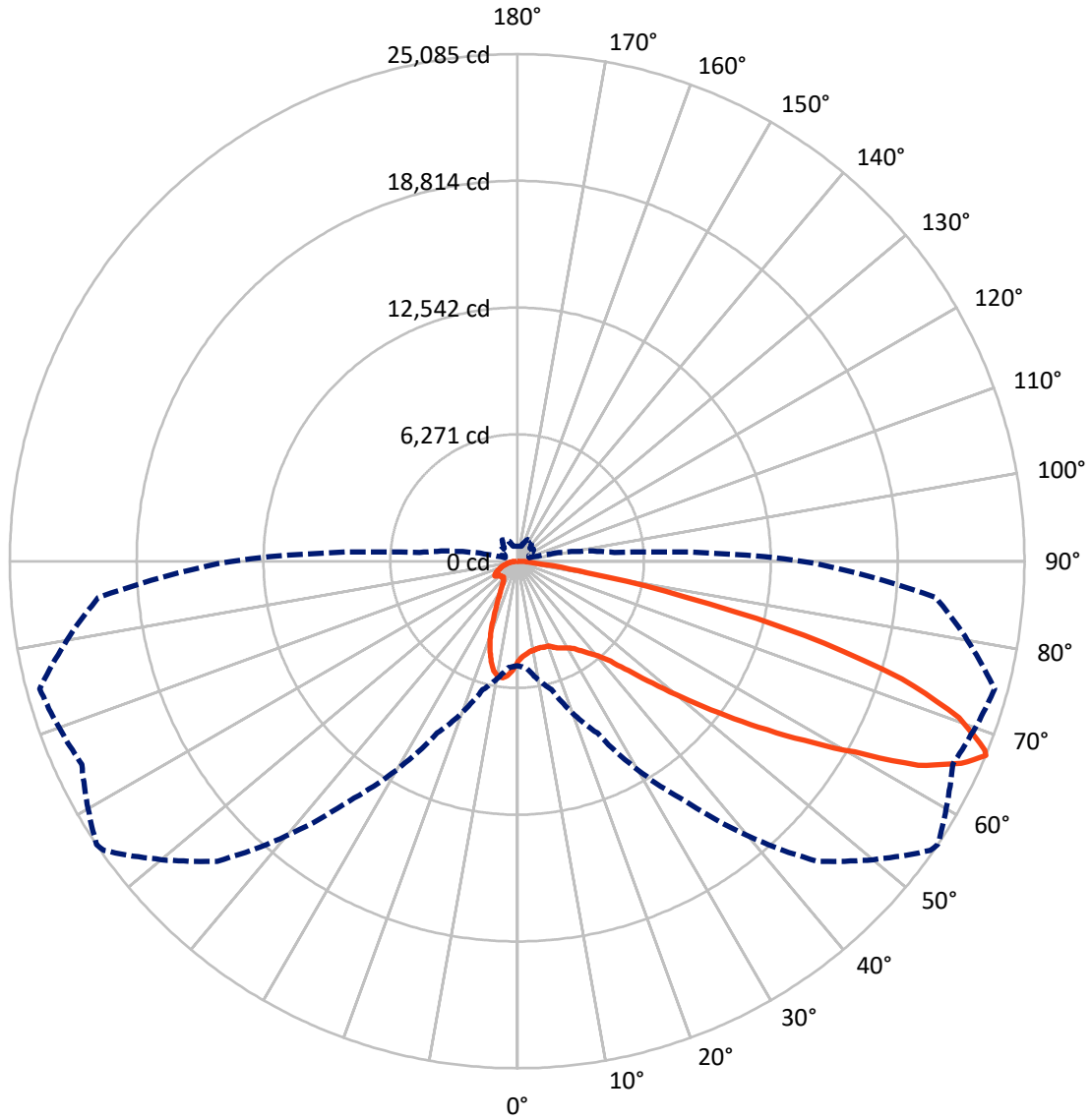
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5042.9	0.0	5042.9
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	26811.4	0.0	26811.4
	% Fixture	84.2	0.0	84.2
Total	Lumens	31854.3	0.0	31854.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.5	1.5
10°-20°	1302.7	4.1
20°-30°	2042.9	6.4
30°-40°	2916.3	9.2
40°-50°	4401.6	13.8
50°-60°	7006.6	22.0
60°-70°	8957.3	28.1
70°-80°	4367.3	13.7
80°-90°	382.0	1.2
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°	31854.3	100.0
0°-180°	31854.3	100.0

Coefficient of Utilization

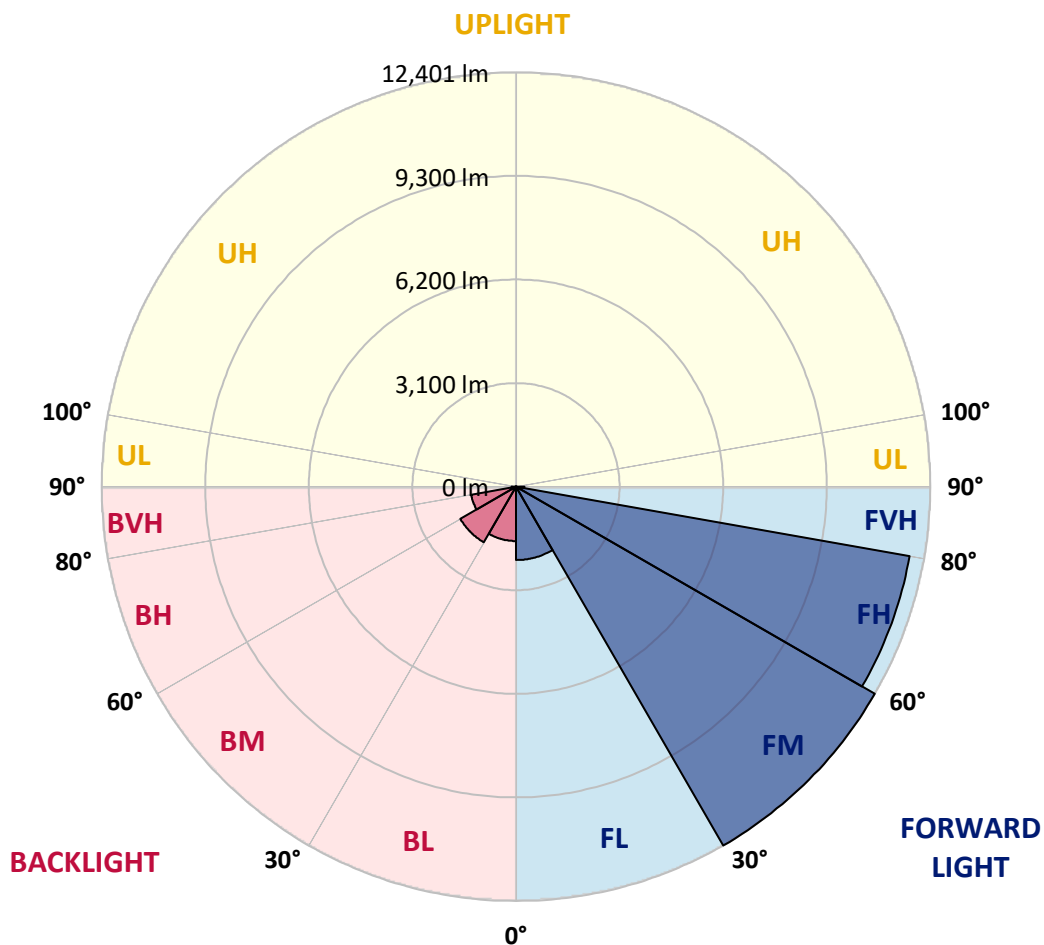


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2195.1	6.9			
FM (30°-60°)	12400.6	38.9			
FH (60°-80°)	11962.0	37.6			G4/12000
FVH (80°-90°)	253.7	0.8			G3/500
BL (0°-30°)	1628.0	5.1	B3/2500		
BM (30°-60°)	1923.9	6.0	B2/2500		
BH (60°-80°)	1362.7	4.3	B3/2500		G3/2500
BVH (80°-90°)	128.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4956.4	4956.4	4956.4	4956.4	4956.4	4956.4	4956.4	4956.4	4956.4	4956.4
2.5°	4553.1	4534.4	4556.8	4534.4	4635.2	4695.0	4713.7	4739.8	4833.2	4922.8
5°	4362.6	4280.4	4370.0	4399.9	4407.4	4508.2	4612.8	4631.5	4680.0	4825.7
7.5°	4045.1	4138.5	4104.8	4194.5	4287.9	4388.7	4560.5	4512.0	4691.3	4829.4
10°	3977.9	3985.3	4022.7	4056.3	4138.5	4269.2	4508.2	4478.4	4661.4	4956.4
12.5°	4045.1	4045.1	4033.9	4007.7	4101.1	4228.1	4418.6	4433.5	4721.1	4993.8
15°	4280.4	4325.2	4205.7	4224.4	4187.0	4228.1	4396.2	4429.8	4743.5	5023.7
17.5°	4855.6	4840.7	4698.7	4500.8	4336.4	4310.3	4426.1	4463.4	4721.1	5109.6
20°	5415.9	5386.0	5139.5	4934.0	4609.1	4455.9	4474.6	4478.4	4758.5	5165.6
22.5°	6039.6	6118.0	5849.1	5430.8	5027.4	4646.4	4571.7	4631.5	4844.4	5195.5
25°	7018.2	6850.1	6618.5	6069.5	5419.6	4941.5	4732.3	4762.2	4926.6	5270.2
27.5°	7724.1	7656.9	7294.6	6850.1	5968.6	5173.1	4818.2	4874.3	5076.0	5266.5
30°	8403.9	8403.9	8183.5	7518.7	6547.6	5561.5	5001.3	4975.1	5005.0	5259.0
32.5°	9199.5	9091.2	8773.7	8332.9	7275.9	5916.4	5146.9	5154.4	5154.4	5397.2
35°	9617.8	9793.4	9580.5	8863.3	7832.4	6506.5	5498.0	5442.0	5400.9	5550.3
37.5°	10230.4	10334.9	10110.8	9688.8	8523.4	6984.6	5808.0	5763.2	5524.2	5669.8
40°	10600.1	10581.5	10574.0	10379.8	9438.5	7548.6	6263.7	6147.9	5826.7	6091.9
42.5°	10809.3	10771.9	11231.4	11111.8	10301.3	8377.8	6835.2	6771.7	6416.9	6842.7
45°	11044.6	11321.0	11698.2	12034.4	11306.1	9543.1	7802.6	7712.9	7395.4	7937.0
47.5°	11250.0	11589.9	12071.8	12430.3	12213.7	10809.3	8997.8	9020.2	8811.0	9367.6
50°	11593.7	11627.3	12280.9	13005.5	13173.6	11978.4	10603.9	10566.5	10473.1	11253.8
52.5°	11489.1	11589.9	12415.4	13341.7	13618.1	13214.7	12329.5	12441.5	12318.3	13300.6
55°	9785.9	10088.4	12333.2	13696.5	14671.4	14611.6	14548.1	14473.4	14465.9	15601.4
57.5°	9012.7	9259.2	10865.3	14088.7	15799.4	16240.1	16651.0	16733.1	16729.4	18100.2
60°	8504.8	8758.7	10271.4	13875.8	16759.3	18372.8	19160.9	19172.1	19149.7	20770.7
62.5°	7511.2	7757.7	9244.3	12710.5	17024.5	20341.2	22096.7	22242.4	21215.2	23071.5
65°	6316.0	6517.7	7828.7	10928.8	16318.5	21592.5	24304.1	24132.3	22955.8	24386.3
67°	5165.6	5300.1	6577.5	9382.5	14473.4	20991.1	24942.8	25084.7	23758.8	24442.3
67.5°	4836.9	4960.2	6166.6	8855.9	13771.2	20535.4	24965.2	24942.8	23773.7	24453.5
70°	3357.8	3410.1	4202.0	6091.9	10144.5	17349.4	23142.5	23194.8	22776.5	23127.6
72.5°	2226.1	2304.5	2808.8	3839.7	5979.9	12624.5	19343.9	19904.2	19639.0	18963.0
75°	1434.3	1479.1	1837.7	2285.9	2943.2	7190.0	14290.4	14663.9	14055.1	11728.1
77.5°	803.0	851.6	1109.3	1389.4	1434.3	2991.8	8026.7	8489.8	7193.7	4982.6
80°	500.5	564.0	836.7	825.5	683.5	1098.1	3309.3	3544.6	2876.0	1714.4
82.5°	377.2	425.8	646.2	578.9	384.7	489.3	1240.0	1329.7	1053.3	661.1
85°	257.7	325.0	466.9	358.6	201.7	235.3	493.0	530.4	481.8	321.2
87.5°	93.4	138.2	242.8	179.3	89.6	71.0	160.6	179.3	171.8	145.7
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4956.4	0°	4956.4	4956.4	4956.4	4956.4	4956.4	4956.4	4956.4	4956.4	4956.4	4956.4
5001.3	2.5°	5072.2	5124.5	5150.7	5303.8	5367.3	5356.1	5371.0	5393.4	5415.9	5445.7
5064.8	5°	5113.3	5273.9	5359.8	5539.1	5658.6	5606.3	5673.6	5654.9	5628.8	5625.0
5180.5	7.5°	5247.8	5453.2	5710.9	5759.5	5811.8	5681.0	5569.0	5415.9	5378.5	5247.8
5277.7	10°	5486.8	5654.9	5968.6	5987.3	5755.7	5419.6	5169.3	4851.9	4848.1	4657.6
5427.1	12.5°	5714.7	5905.1	6159.1	6050.8	5498.0	5038.6	4631.5	4284.1	4138.5	4041.3
5516.7	15°	5856.6	6170.3	6304.8	5837.9	5046.1	4426.1	3899.4	3525.9	3376.5	3305.5
5628.8	17.5°	5987.3	6424.3	6364.6	5464.4	4489.6	3794.8	3167.3	2842.4	2801.3	2749.0
5808.0	20°	6166.6	6517.7	6151.7	4978.9	3858.3	2980.6	2580.9	2424.1	2461.4	2483.8
5826.7	22.5°	6334.7	6566.3	5882.7	4448.5	3047.8	2360.6	2162.6	2196.2	2252.2	2327.0
5871.5	25°	6409.4	6644.7	5520.4	3716.4	2319.5	1987.1	1942.2	1998.3	2091.6	2095.4
5935.0	27.5°	6457.9	6588.7	5083.4	3003.0	1833.9	1736.8	1804.0	1845.1	1856.3	1901.2
6069.5	30°	6543.8	6472.9	4530.6	2147.7	1538.8	1542.6	1628.5	1628.5	1628.5	1662.1
6204.0	32.5°	6693.2	6394.4	3884.5	1568.7	1326.0	1445.5	1423.1	1415.6	1400.7	1359.6
6375.8	35°	6786.6	6181.5	3066.5	1161.6	1191.5	1326.0	1318.5	1202.7	1008.5	911.4
6812.8	37.5°	6980.9	6073.2	2256.0	896.4	1113.1	1266.2	1225.1	945.0	732.1	638.7
7354.4	40°	7399.2	6002.3	1561.3	784.4	1060.8	1236.3	1094.4	806.8	560.3	395.9
8191.0	42.5°	7910.9	6006.0	1060.8	739.5	1064.5	1299.8	1053.3	691.0	395.9	317.5
9307.8	45°	8598.1	5950.0	728.3	739.5	1131.7	1404.4	1079.4	627.5	384.7	403.4
10708.5	47.5°	9337.7	5998.5	541.6	672.3	1142.9	1408.1	986.1	616.3	369.8	466.9
12232.4	50°	10200.5	6047.1	448.2	620.0	1146.7	1363.3	907.6	601.3	384.7	493.0
13980.4	52.5°	11089.4	6200.2	381.0	586.4	1191.5	1344.6	907.6	623.8	384.7	429.5
16206.5	55°	12415.4	6592.4	549.1	732.1	1355.8	1467.9	1116.8	874.0	537.9	552.8
18339.2	57.5°	13879.5	6995.8	612.6	769.4	1393.2	1322.2	1202.7	963.6	567.7	571.5
19997.6	60°	14843.2	7010.7	608.8	750.7	1303.5	1142.9	1176.5	1015.9	578.9	489.3
21024.7	62.5°	15227.9	6555.1	635.0	750.7	1213.9	1068.2	1206.4	1094.4	597.6	612.6
21316.1	65°	14790.9	5613.8	612.6	672.3	1068.2	956.2	1213.9	1109.3	653.6	616.3
20793.1	67°	14107.4	4836.9	623.8	638.7	993.5	907.6	1277.4	1165.3	758.2	739.5
20520.5	67.5°	13913.1	4631.5	620.0	620.0	967.4	892.7	1292.3	1165.3	773.2	765.7
18111.4	70°	12262.2	3753.7	635.0	612.6	855.3	847.9	1374.5	1228.8	888.9	896.4
13304.3	72.5°	9333.9	2846.1	631.2	612.6	743.3	810.5	1385.7	1269.9	967.4	896.4
7451.5	75°	5303.8	1703.2	556.5	534.1	586.4	705.9	1296.1	1210.2	941.2	803.0
2976.9	77.5°	2192.5	877.7	511.7	481.8	485.6	575.2	1079.4	1128.0	896.4	683.5
993.5	80°	818.0	526.6	410.9	384.7	373.5	422.1	769.4	900.2	765.7	560.3
437.0	82.5°	425.8	328.7	280.1	280.1	254.0	268.9	414.6	597.6	578.9	384.7
175.5	85°	216.6	186.8	160.6	156.9	141.9	127.0	209.2	354.8	332.4	212.9
78.4	87.5°	115.8	104.6	67.2	63.5	52.3	33.6	37.4	71.0	115.8	93.4
0.0	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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180°
4956.4
5475.6
5658.6
5292.6
4650.2
4018.9
3290.6
2775.2
2457.7
2285.9
2132.7
1942.2
1699.5
1337.2
956.2
635.0
384.7
310.0
410.9
519.2
571.5
440.7
582.7
552.8
504.2
620.0
605.1
728.3
750.7
829.2
795.6
717.1
646.2
511.7
302.5
175.5
67.2
0.0

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