

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: P477827

Luminaire Tested: **IFLD-M-SA4C-750-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477827
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-750-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

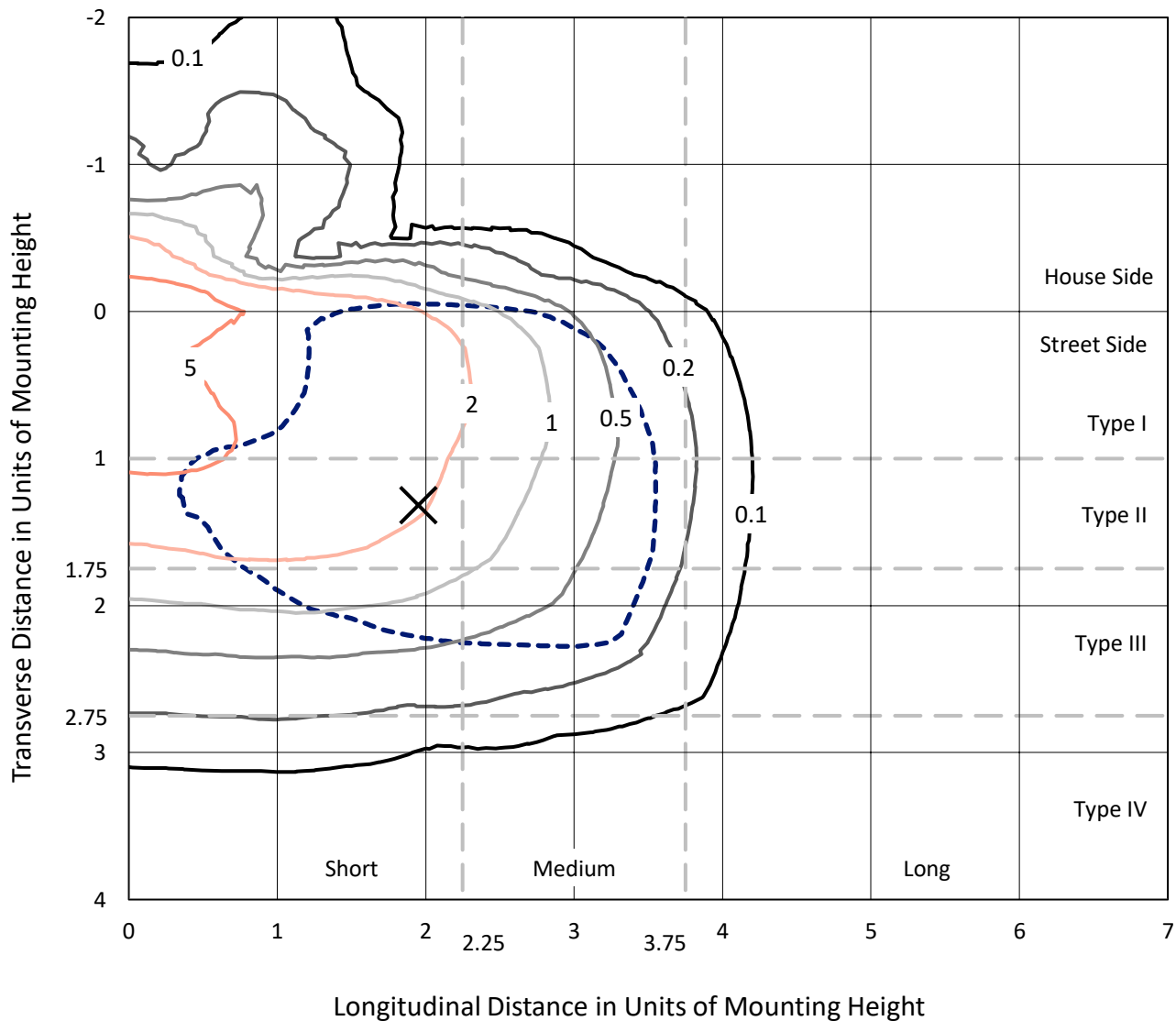
Lumens per Lamp: N/A
Luminaire Lumens: 28567.9 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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

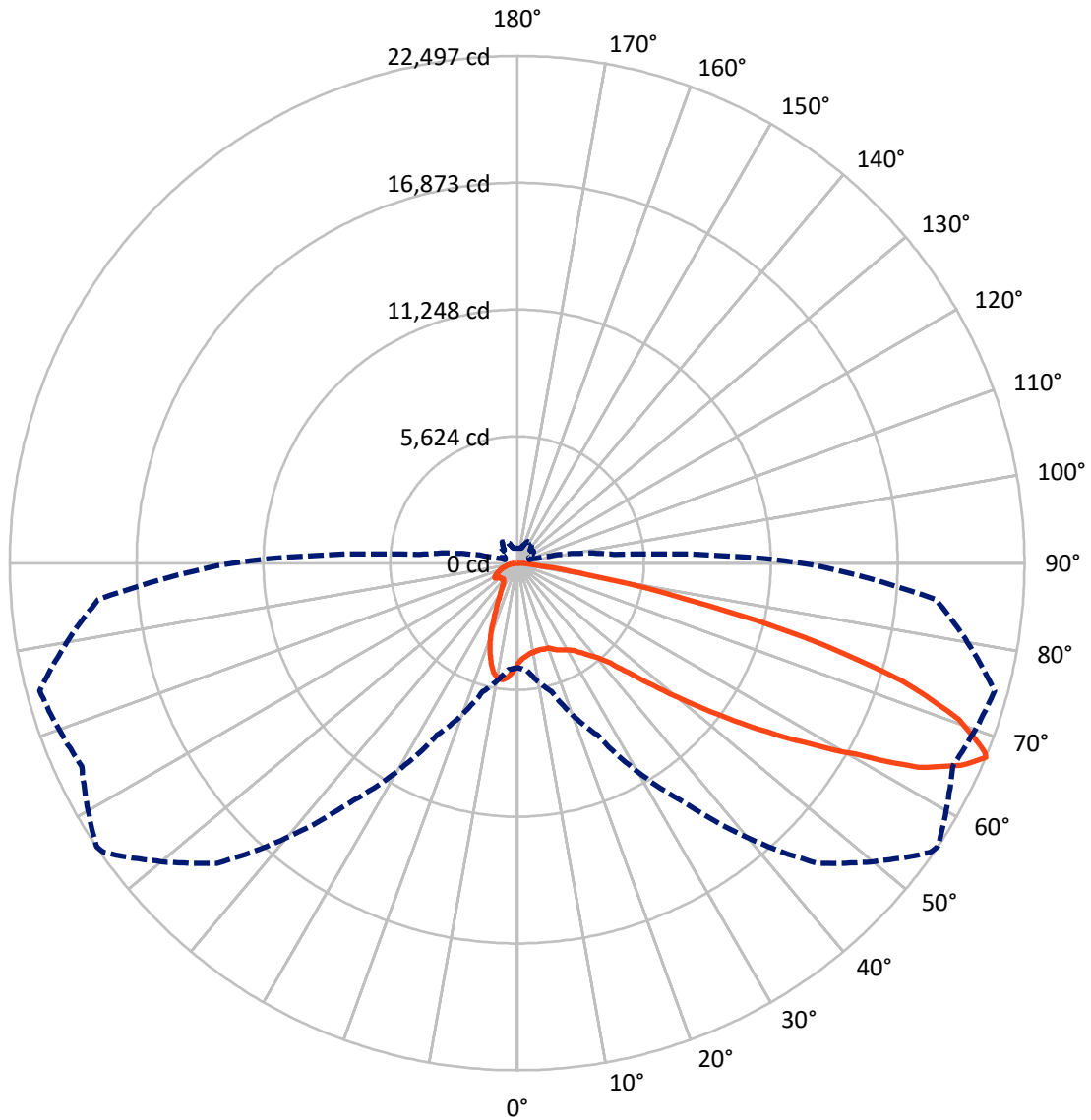
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	4522.6	0.0	4522.6
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	24045.3	0.0	24045.3
	% Fixture	84.2	0.0	84.2
Total	Lumens	28567.9	0.0	28567.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.2	1.5
10°-20°	1168.3	4.1
20°-30°	1832.2	6.4
30°-40°	2615.5	9.2
40°-50°	3947.5	13.8
50°-60°	6283.7	22.0
60°-70°	8033.2	28.1
70°-80°	3916.7	13.7
80°-90°	342.6	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°	28567.9	100.0
0°-180°	28567.9	100.0

Coefficient of Utilization

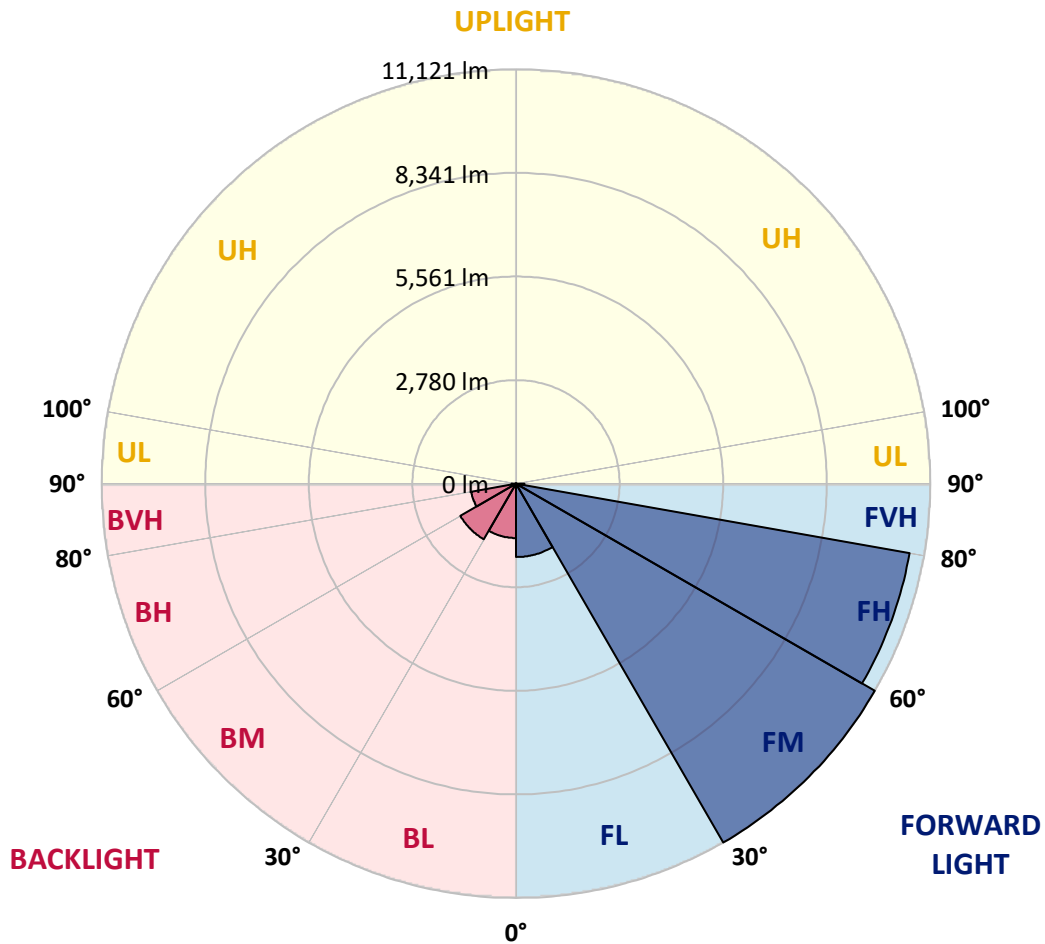


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1968.7	6.9			
FM (30°-60°)	11121.2	38.9			
FH (60°-80°)	10727.9	37.6			G4/12000
FVH (80°-90°)	227.5	0.8			G3/500
BL (0°-30°)	1460.0	5.1	B3/2500		
BM (30°-60°)	1725.4	6.0	B2/2500		
BH (60°-80°)	1222.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	115.1	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°	4445.1	4445.1	4445.1	4445.1	4445.1	4445.1	4445.1	4445.1	4445.1	4445.1
2.5°	4083.3	4066.6	4086.7	4066.6	4157.0	4210.6	4227.4	4250.8	4334.6	4414.9
5°	3912.5	3838.8	3919.2	3946.0	3952.7	4043.1	4136.9	4153.7	4197.2	4327.9
7.5°	3627.8	3711.5	3681.4	3761.7	3845.5	3935.9	4090.0	4046.5	4207.3	4331.2
10°	3567.5	3574.2	3607.7	3637.8	3711.5	3828.7	4043.1	4016.3	4180.5	4445.1
12.5°	3627.8	3627.8	3617.7	3594.3	3678.0	3791.9	3962.7	3976.1	4234.1	4478.6
15°	3838.8	3879.0	3771.8	3788.5	3755.0	3791.9	3942.6	3972.8	4254.2	4505.4
17.5°	4354.6	4341.2	4214.0	4036.4	3889.0	3865.6	3969.4	4002.9	4234.1	4582.4
20°	4857.1	4830.3	4609.2	4425.0	4133.6	3996.2	4013.0	4016.3	4267.6	4632.7
22.5°	5416.5	5486.9	5245.7	4870.5	4508.7	4167.1	4100.1	4153.7	4344.6	4659.5
25°	6294.1	6143.4	5935.7	5443.3	4860.5	4431.7	4244.1	4270.9	4418.3	4726.5
27.5°	6927.2	6866.9	6542.0	6143.4	5352.9	4639.4	4321.2	4371.4	4552.3	4723.1
30°	7536.9	7536.9	7339.3	6743.0	5872.1	4987.7	4485.3	4461.8	4488.6	4716.4
32.5°	8250.4	8153.2	7868.5	7473.2	6525.3	5306.0	4615.9	4622.6	4622.6	4840.4
35°	8625.6	8783.0	8592.1	7948.9	7024.4	5835.2	4930.8	4880.6	4843.7	4977.7
37.5°	9174.9	9268.7	9067.7	8689.2	7644.1	6264.0	5208.8	5168.6	4954.3	5084.9
40°	9506.5	9489.8	9483.1	9308.9	8464.8	6769.8	5617.5	5513.7	5225.6	5463.4
42.5°	9694.1	9660.6	10072.6	9965.4	9238.6	7513.4	6130.0	6073.1	5754.8	6136.7
45°	9905.2	10153.0	10491.4	10792.8	10139.6	8558.6	6997.6	6917.2	6632.5	7118.2
47.5°	10089.4	10394.2	10826.3	11147.9	10953.6	9694.1	8069.5	8089.6	7902.0	8401.1
50°	10397.6	10427.7	11013.9	11663.8	11814.5	10742.6	9509.9	9476.4	9392.6	10092.7
52.5°	10303.8	10394.2	11134.5	11965.2	12213.1	11851.3	11057.5	11157.9	11047.4	11928.4
55°	8776.3	9047.6	11060.8	12283.5	13157.7	13104.1	13047.2	12980.2	12973.5	13991.8
57.5°	8082.9	8304.0	9744.4	12635.2	14169.4	14564.6	14933.1	15006.8	15003.4	16232.8
60°	7627.3	7855.1	9211.8	12444.2	15030.2	16477.3	17184.1	17194.2	17174.1	18627.8
62.5°	6736.3	6957.4	8290.6	11399.1	15268.1	18242.6	19817.0	19947.6	19026.5	20691.3
65°	5664.4	5845.3	7021.0	9801.3	14635.0	19364.8	21796.7	21642.6	20587.4	21870.4
67°	4632.7	4753.3	5898.9	8414.5	12980.2	18825.5	22369.5	22496.8	21307.6	21920.6
67.5°	4337.9	4448.4	5530.4	7942.2	12350.5	18416.8	22389.6	22369.5	21321.0	21930.7
70°	3011.4	3058.3	3768.4	5463.4	9097.9	15559.5	20754.9	20801.8	20426.7	20741.5
72.5°	1996.4	2066.8	2519.0	3443.5	5362.9	11322.1	17348.3	17850.7	17612.9	17006.6
75°	1286.3	1326.5	1648.1	2050.0	2639.6	6448.2	12816.1	13151.0	12605.0	10518.2
77.5°	720.2	763.7	994.9	1246.1	1286.3	2683.1	7198.6	7613.9	6451.6	4468.5
80°	448.9	505.8	750.3	740.3	613.0	984.8	2967.9	3178.9	2579.3	1537.5
82.5°	338.3	381.9	579.5	519.2	345.0	438.8	1112.1	1192.5	944.6	592.9
85°	231.1	291.4	418.7	321.6	180.9	211.0	442.2	475.7	432.1	288.1
87.5°	83.7	123.9	217.7	160.8	80.4	63.6	144.0	160.8	154.1	130.6
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°
4445.1	0°	4445.1	4445.1	4445.1	4445.1	4445.1	4445.1	4445.1	4445.1	4445.1	4445.1
4485.3	2.5°	4548.9	4595.8	4619.3	4756.6	4813.6	4803.5	4816.9	4837.0	4857.1	4883.9
4542.2	5°	4585.8	4729.8	4806.9	4967.6	5074.8	5027.9	5088.2	5071.5	5048.0	5044.7
4646.1	7.5°	4706.4	4890.6	5121.7	5165.3	5212.2	5094.9	4994.4	4857.1	4823.6	4706.4
4733.2	10°	4920.8	5071.5	5352.9	5369.6	5161.9	4860.5	4636.0	4351.3	4347.9	4177.1
4867.2	12.5°	5125.1	5295.9	5523.7	5426.6	4930.8	4518.8	4153.7	3842.1	3711.5	3624.4
4947.6	15°	5252.4	5533.8	5654.3	5235.6	4525.5	3969.4	3497.1	3162.1	3028.2	2964.5
5048.0	17.5°	5369.6	5761.5	5707.9	4900.7	4026.4	3403.3	2840.6	2549.1	2512.3	2465.4
5208.8	20°	5530.4	5845.3	5517.0	4465.2	3460.3	2673.1	2314.7	2174.0	2207.5	2227.6
5225.6	22.5°	5681.1	5888.8	5275.8	3989.5	2733.4	2117.0	1939.5	1969.6	2019.9	2086.9
5265.8	25°	5748.1	5959.2	4950.9	3333.0	2080.2	1782.1	1741.9	1792.1	1875.8	1879.2
5322.7	27.5°	5791.7	5908.9	4559.0	2693.2	1644.7	1557.6	1617.9	1654.8	1664.8	1705.0
5443.3	30°	5868.7	5805.1	4063.2	1926.1	1380.1	1383.4	1460.5	1460.5	1460.5	1490.6
5563.9	32.5°	6002.7	5734.7	3483.7	1406.9	1189.2	1296.3	1276.2	1269.5	1256.1	1219.3
5718.0	35°	6086.5	5543.8	2750.1	1041.8	1068.6	1189.2	1182.5	1078.6	904.4	817.3
6109.9	37.5°	6260.6	5446.7	2023.2	803.9	998.2	1135.6	1098.7	847.5	656.5	572.8
6595.6	40°	6635.8	5383.0	1400.2	703.4	951.3	1108.8	981.5	723.5	502.5	355.1
7346.0	42.5°	7094.7	5386.4	951.3	663.2	954.7	1165.7	944.6	619.7	355.1	284.7
8347.5	45°	7711.1	5336.1	653.2	663.2	1015.0	1259.5	968.1	562.8	345.0	361.8
9603.7	47.5°	8374.3	5379.7	485.7	603.0	1025.0	1262.8	884.3	552.7	331.6	418.7
10970.4	50°	9148.1	5423.2	402.0	556.1	1028.4	1222.7	814.0	539.3	345.0	442.2
12538.0	52.5°	9945.3	5560.6	341.7	525.9	1068.6	1205.9	814.0	559.4	345.0	385.2
14534.5	55°	11134.5	5912.3	492.4	656.5	1216.0	1316.4	1001.6	783.8	482.4	495.8
16447.2	57.5°	12447.6	6274.0	549.4	690.0	1249.4	1185.8	1078.6	864.2	509.2	512.5
17934.5	60°	13311.8	6287.4	546.0	673.3	1169.1	1025.0	1055.2	911.1	519.2	438.8
18855.6	62.5°	13656.8	5878.8	569.5	673.3	1088.7	958.0	1082.0	981.5	536.0	549.4
19116.9	65°	13264.9	5034.6	549.4	603.0	958.0	857.5	1088.7	994.9	586.2	552.7
18647.9	67°	12651.9	4337.9	559.4	572.8	891.0	814.0	1145.6	1045.1	680.0	663.2
18403.4	67.5°	12477.7	4153.7	556.1	556.1	867.6	800.6	1159.0	1045.1	693.4	686.7
16242.8	70°	10997.2	3366.5	569.5	549.4	767.1	760.4	1232.7	1102.1	797.2	803.9
11931.7	72.5°	8371.0	2552.5	566.1	549.4	666.6	726.9	1242.7	1138.9	867.6	803.9
6682.7	75°	4756.6	1527.5	499.1	479.0	525.9	633.1	1162.4	1085.3	844.1	720.2
2669.7	77.5°	1966.3	787.2	458.9	432.1	435.5	515.9	968.1	1011.6	803.9	613.0
891.0	80°	733.6	472.3	368.5	345.0	335.0	378.5	690.0	807.3	686.7	502.5
391.9	82.5°	381.9	294.8	251.2	251.2	227.8	241.2	371.8	536.0	519.2	345.0
157.4	85°	194.3	167.5	144.0	140.7	127.3	113.9	187.6	318.2	298.1	190.9
70.3	87.5°	103.8	93.8	60.3	56.9	46.9	30.1	33.5	63.6	103.8	83.7
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°
4445.1
4910.7
5074.8
4746.6
4170.4
3604.3
2951.1
2488.8
2204.1
2050.0
1912.7
1741.9
1524.1
1199.2
857.5
569.5
345.0
278.0
368.5
465.6
512.5
395.3
522.6
495.8
452.2
556.1
542.7
653.2
673.3
743.6
713.5
643.1
579.5
458.9
271.3
157.4
60.3
0.0

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