

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: P477673

Luminaire Tested: **IFLD-M-SA4E-727-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477673  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-727-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (64) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

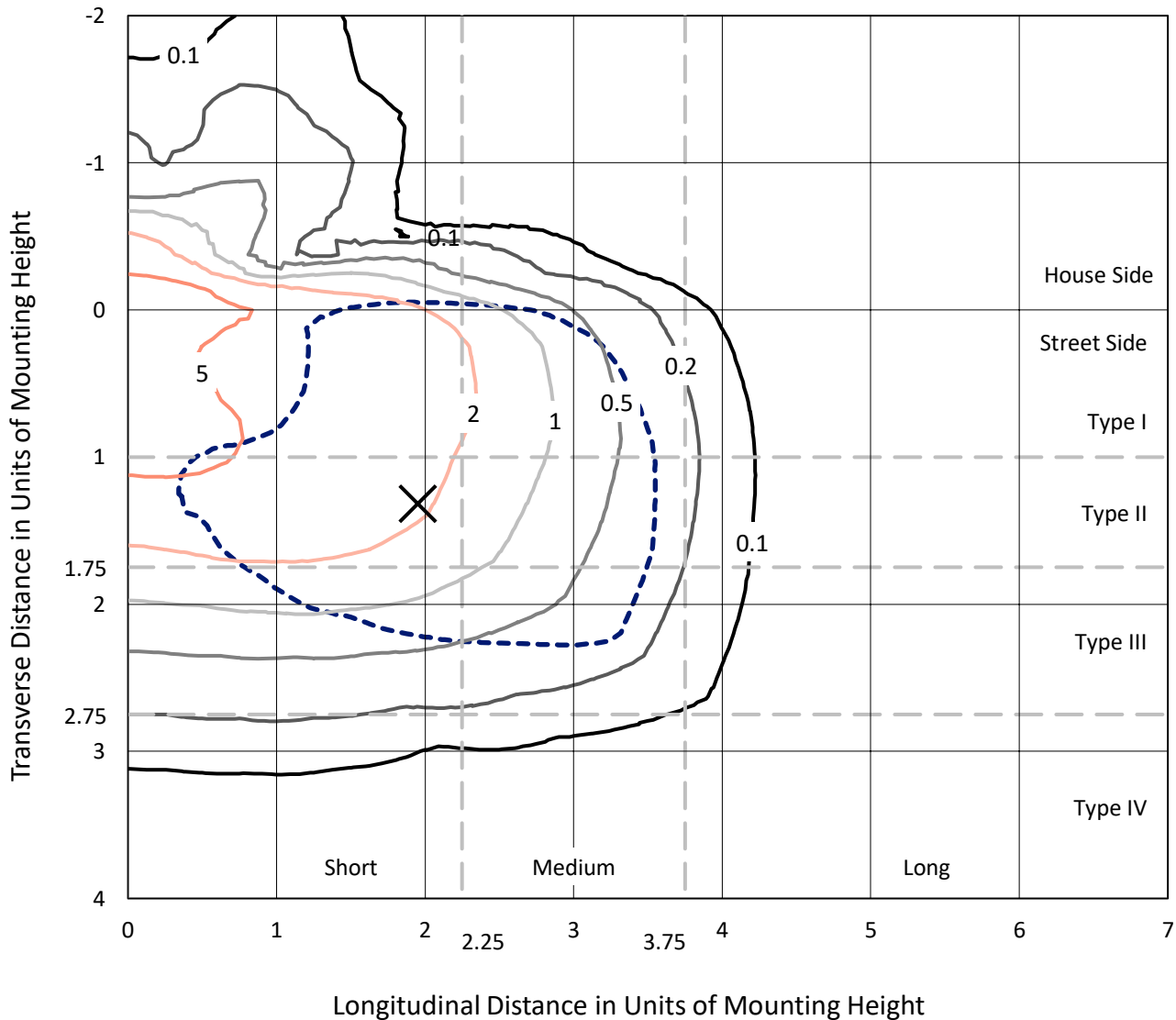
Lumens per Lamp: N/A  
Luminaire Lumens: 29741.9 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 314.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

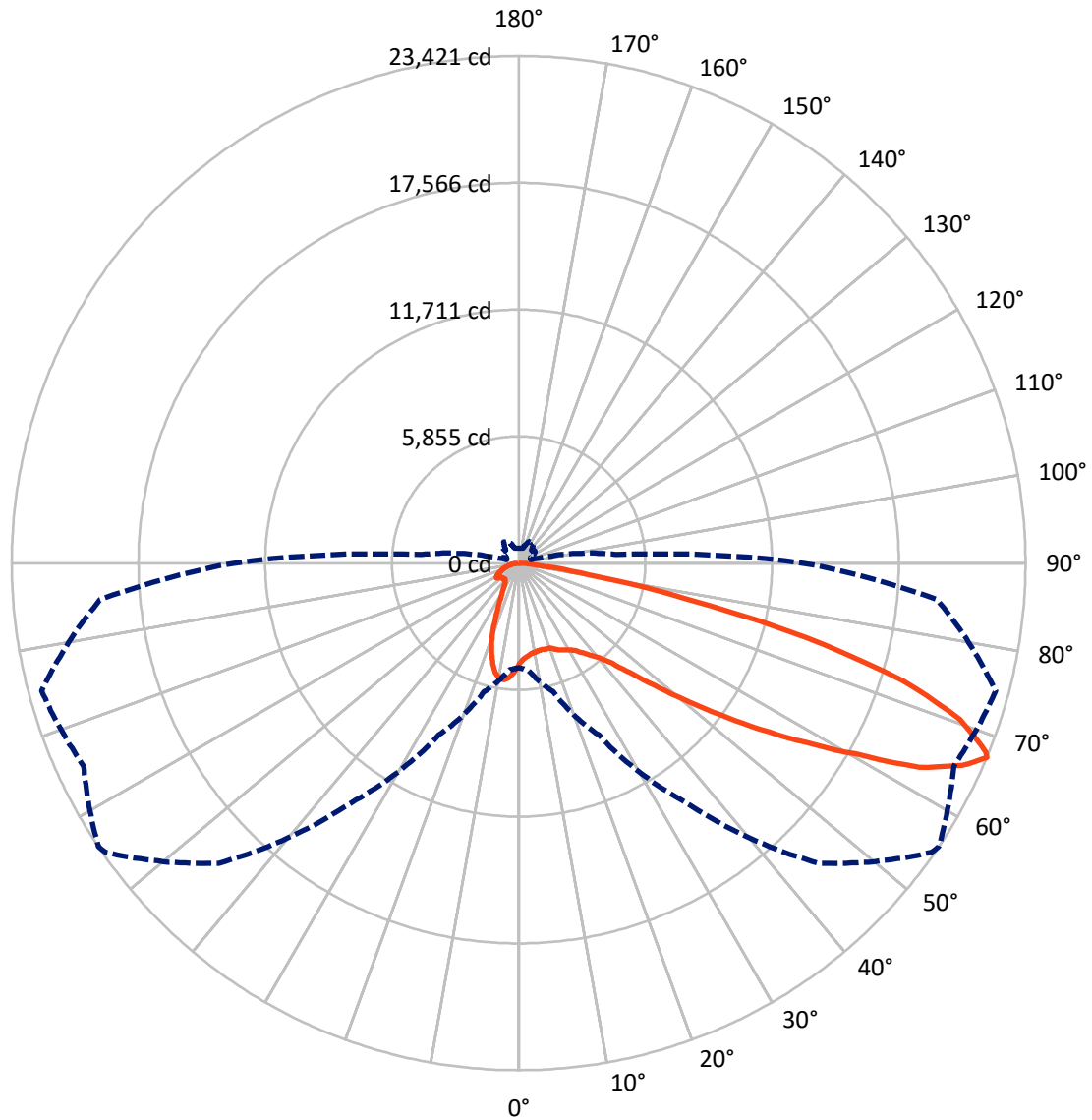
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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
<b>House Side</b>	Lumens	4708.4	0.0	4708.4
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	25033.4	0.0	25033.4
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	29741.9	0.0	29741.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	445.8	1.5
10°-20°	1216.3	4.1
20°-30°	1907.5	6.4
30°-40°	2722.9	9.2
40°-50°	4109.7	13.8
50°-60°	6541.9	22.0
60°-70°	8363.4	28.1
70°-80°	4077.7	13.7
80°-90°	356.7	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°	29741.9	100.0
0°-180°	29741.9	100.0

**Coefficient of Utilization**

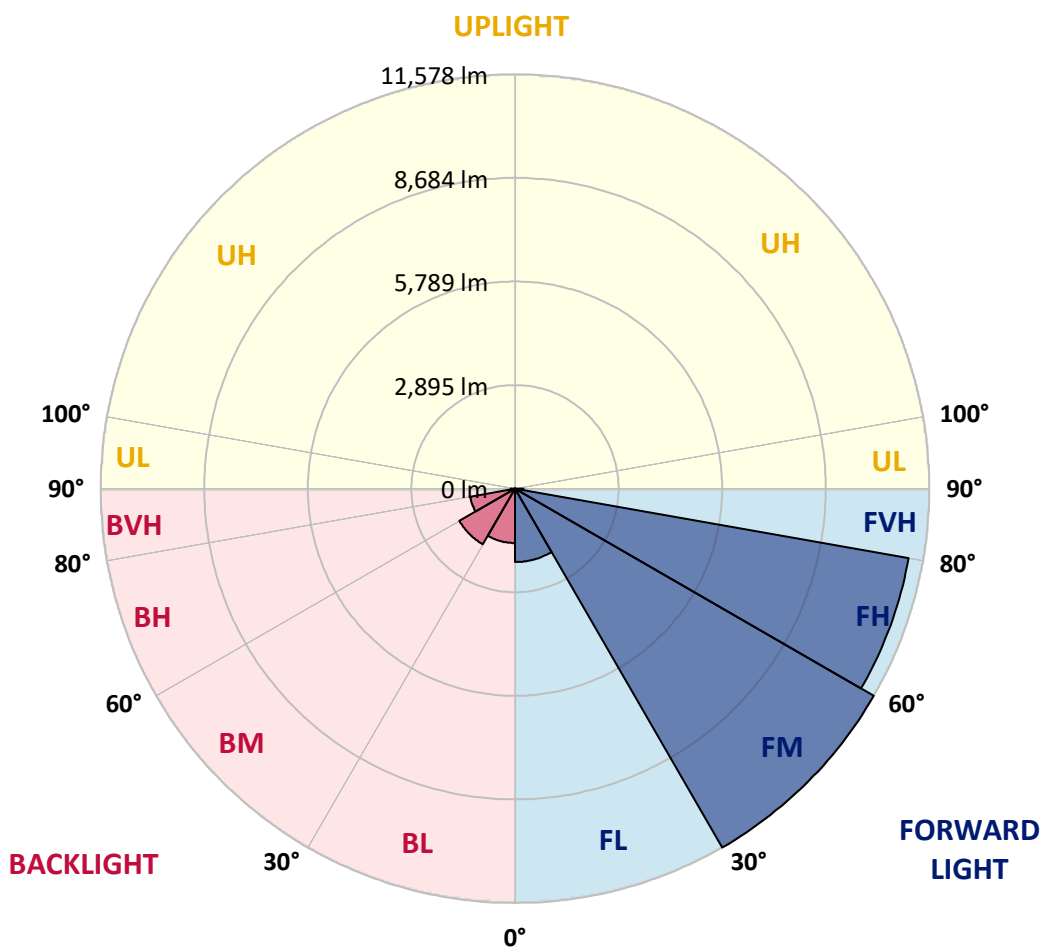


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2049.6	6.9			
FM (30°-60°)	11578.3	38.9			
FH (60°-80°)	11168.7	37.6			G4/12000
FVH (80°-90°)	236.9	0.8			G3/500
BL (0°-30°)	1520.0	5.1	B3/2500		
BM (30°-60°)	1796.3	6.0	B2/2500		
BH (60°-80°)	1272.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	119.8	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°	4627.8	4627.8	4627.8	4627.8	4627.8	4627.8	4627.8	4627.8	4627.8	4627.8
2.5°	4251.1	4233.7	4254.6	4233.7	4327.8	4383.6	4401.1	4425.5	4512.7	4596.4
5°	4073.3	3996.5	4080.2	4108.1	4115.1	4209.3	4306.9	4324.4	4369.7	4505.7
7.5°	3776.8	3864.0	3832.6	3916.3	4003.5	4097.7	4258.1	4212.8	4380.2	4509.2
10°	3714.1	3721.0	3755.9	3787.3	3864.0	3986.1	4209.3	4181.4	4352.3	4627.8
12.5°	3776.8	3776.8	3766.4	3742.0	3829.1	3947.7	4125.6	4139.5	4408.1	4662.6
15°	3996.5	4038.4	3926.8	3944.2	3909.4	3947.7	4104.7	4136.0	4429.0	4690.5
17.5°	4533.6	4519.6	4387.1	4202.3	4048.9	4024.4	4132.5	4167.4	4408.1	4770.7
20°	5056.7	5028.8	4798.6	4606.8	4303.4	4160.4	4177.9	4181.4	4442.9	4823.1
22.5°	5639.1	5712.3	5461.2	5070.7	4694.0	4338.3	4268.6	4324.4	4523.1	4851.0
25°	6552.8	6395.9	6179.6	5667.0	5060.2	4613.8	4418.5	4446.4	4599.9	4920.7
27.5°	7211.9	7149.1	6810.9	6395.9	5572.8	4830.0	4498.7	4551.0	4739.4	4917.2
30°	7846.6	7846.6	7640.9	7020.1	6113.4	5192.7	4669.6	4645.2	4673.1	4910.2
32.5°	8589.4	8488.3	8191.9	7780.4	6793.4	5524.0	4805.6	4812.6	4812.6	5039.3
35°	8980.0	9143.9	8945.1	8275.6	7313.0	6075.0	5133.4	5081.1	5042.8	5182.3
37.5°	9551.9	9649.6	9440.3	9046.3	7958.2	6521.4	5422.9	5381.0	5157.8	5293.8
40°	9897.2	9879.8	9872.8	9691.4	8812.6	7048.0	5848.3	5740.2	5440.3	5687.9
42.5°	10092.5	10057.6	10486.6	10375.0	9618.2	7822.2	6381.9	6322.6	5991.3	6388.9
45°	10312.2	10570.3	10922.5	11236.4	10556.3	8910.3	7285.1	7201.4	6905.0	7410.7
47.5°	10504.0	10821.4	11271.2	11606.0	11403.7	10092.5	8401.1	8422.0	8226.7	8746.4
50°	10824.8	10856.2	11466.5	12143.1	12300.0	11184.0	9900.7	9865.8	9778.6	10507.5
52.5°	10727.2	10821.4	11592.1	12456.9	12715.0	12338.4	11511.9	11616.5	11501.4	12418.6
55°	9136.9	9419.4	11515.3	12788.2	13698.4	13642.6	13583.4	13513.6	13506.6	14566.8
57.5°	8415.1	8645.2	10144.8	13154.4	14751.6	15163.1	15546.8	15623.5	15620.0	16899.9
60°	7940.8	8177.9	9590.3	12955.6	15647.9	17154.4	17890.3	17900.7	17879.8	19393.3
62.5°	7013.1	7243.3	8631.3	11867.6	15895.5	18992.3	20631.4	20767.4	19808.3	21541.6
65°	5897.2	6085.5	7309.6	10204.1	15236.4	20160.6	22692.4	22532.0	21433.5	22769.1
67°	4823.1	4948.6	6141.3	8760.3	13513.6	19599.1	23288.7	23421.3	22183.2	22821.4
67.5°	4516.2	4631.2	5757.7	8268.6	12858.0	19173.6	23309.7	23288.7	22197.2	22831.9
70°	3135.2	3184.0	3923.3	5687.9	9471.7	16198.9	21607.8	21656.7	21266.1	21593.9
72.5°	2078.5	2151.7	2622.5	3585.0	5583.3	11787.4	18061.2	18584.3	18336.7	17705.4
75°	1339.2	1381.0	1715.8	2134.3	2748.1	6713.2	13342.7	13691.5	13123.0	10950.4
77.5°	749.8	795.1	1035.8	1297.3	1339.2	2793.4	7494.4	7926.8	6716.7	4652.2
80°	467.3	526.6	781.2	770.7	638.2	1025.3	3089.8	3309.5	2685.3	1600.7
82.5°	352.2	397.6	603.3	540.5	359.2	456.8	1157.8	1241.5	983.4	617.3
85°	240.6	303.4	435.9	334.8	188.3	219.7	460.3	495.2	449.9	299.9
87.5°	87.2	129.0	226.7	167.4	83.7	66.3	150.0	167.4	160.4	136.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4627.8	0°	4627.8	4627.8	4627.8	4627.8	4627.8	4627.8	4627.8	4627.8	4627.8	4627.8
4669.6	2.5°	4735.9	4784.7	4809.1	4952.1	5011.4	5000.9	5014.9	5035.8	5056.7	5084.6
4728.9	5°	4774.2	4924.2	5004.4	5171.8	5283.4	5234.6	5297.3	5279.9	5255.5	5252.0
4837.0	7.5°	4899.8	5091.6	5332.2	5377.5	5426.4	5304.3	5199.7	5056.7	5021.8	4899.8
4927.7	10°	5123.0	5279.9	5572.8	5590.3	5374.1	5060.2	4826.5	4530.1	4526.6	4348.8
5067.2	12.5°	5335.7	5513.6	5750.7	5649.6	5133.4	4704.5	4324.4	4000.0	3864.0	3773.3
5150.9	15°	5468.2	5761.2	5886.7	5450.8	4711.5	4132.5	3640.8	3292.1	3152.6	3086.3
5255.5	17.5°	5590.3	5998.3	5942.5	5102.0	4191.8	3543.2	2957.3	2653.9	2615.5	2566.7
5422.9	20°	5757.7	6085.5	5743.7	4648.7	3602.5	2782.9	2409.8	2263.3	2298.2	2319.1
5440.3	22.5°	5914.6	6130.8	5492.6	4153.5	2845.7	2204.0	2019.2	2050.6	2102.9	2172.6
5482.2	25°	5984.4	6204.1	5154.4	3469.9	2165.7	1855.3	1813.4	1865.8	1952.9	1956.4
5541.5	27.5°	6029.7	6151.7	4746.3	2803.9	1712.3	1621.6	1684.4	1722.8	1733.2	1775.1
5667.0	30°	6109.9	6043.6	4230.2	2005.2	1436.8	1440.3	1520.5	1520.5	1520.5	1551.9
5792.5	32.5°	6249.4	5970.4	3626.9	1464.7	1238.0	1349.6	1328.7	1321.7	1307.8	1269.4
5953.0	35°	6336.6	5771.6	2863.1	1084.6	1112.5	1238.0	1231.0	1122.9	941.6	850.9
6361.0	37.5°	6517.9	5670.5	2106.4	837.0	1039.2	1182.2	1143.9	882.3	683.5	596.3
6866.7	40°	6908.5	5604.2	1457.7	732.4	990.4	1154.3	1021.8	753.3	523.1	369.7
7647.8	42.5°	7386.3	5607.7	990.4	690.5	993.9	1213.6	983.4	645.2	369.7	296.4
8690.6	45°	8028.0	5555.4	680.0	690.5	1056.7	1311.3	1007.9	585.9	359.2	376.6
9998.3	47.5°	8718.5	5600.7	505.7	627.7	1067.1	1314.7	920.7	575.4	345.3	435.9
11421.2	50°	9524.0	5646.1	418.5	578.9	1070.6	1272.9	847.4	561.5	359.2	460.3
13053.3	52.5°	10354.0	5789.1	355.7	547.5	1112.5	1255.5	847.4	582.4	359.2	401.0
15131.8	55°	11592.1	6155.2	512.6	683.5	1265.9	1370.5	1042.7	816.0	502.2	516.1
17123.1	57.5°	12959.1	6531.9	571.9	718.4	1300.8	1234.5	1122.9	899.7	530.1	533.6
18671.5	60°	13858.9	6545.8	568.4	701.0	1217.1	1067.1	1098.5	948.6	540.5	456.8
19630.5	62.5°	14218.1	6120.4	592.9	701.0	1133.4	997.4	1126.4	1021.8	558.0	571.9
19902.5	65°	13810.0	5241.5	571.9	627.7	997.4	892.8	1133.4	1035.8	610.3	575.4
19414.3	67°	13171.8	4516.2	582.4	596.3	927.6	847.4	1192.7	1088.1	707.9	690.5
19159.7	67.5°	12990.5	4324.4	578.9	578.9	903.2	833.5	1206.6	1088.1	721.9	714.9
16910.3	70°	11449.1	3504.8	592.9	571.9	798.6	791.6	1283.4	1147.3	830.0	837.0
12422.1	72.5°	8715.0	2657.4	589.4	571.9	694.0	756.8	1293.8	1185.7	903.2	837.0
6957.3	75°	4952.1	1590.2	519.6	498.7	547.5	659.1	1210.1	1129.9	878.8	749.8
2779.4	77.5°	2047.1	819.5	477.8	449.9	453.4	537.1	1007.9	1053.2	837.0	638.2
927.6	80°	763.7	491.7	383.6	359.2	348.7	394.1	718.4	840.5	714.9	523.1
408.0	82.5°	397.6	306.9	261.6	261.6	237.1	251.1	387.1	558.0	540.5	359.2
163.9	85°	202.3	174.4	150.0	146.5	132.5	118.6	195.3	331.3	310.4	198.8
73.2	87.5°	108.1	97.6	62.8	59.3	48.8	31.4	34.9	66.3	108.1	87.2
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°
4627.8
5112.5
5283.4
4941.6
4341.8
3752.4
3072.4
2591.1
2294.7
2134.3
1991.3
1813.4
1586.8
1248.5
892.8
592.9
359.2
289.5
383.6
484.7
533.6
411.5
544.0
516.1
470.8
578.9
565.0
680.0
701.0
774.2
742.8
669.6
603.3
477.8
282.5
163.9
62.8
0.0

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