

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: P477808

Luminaire Tested: **IFLD-S-SA3D-750-U-T3R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477808  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-750-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

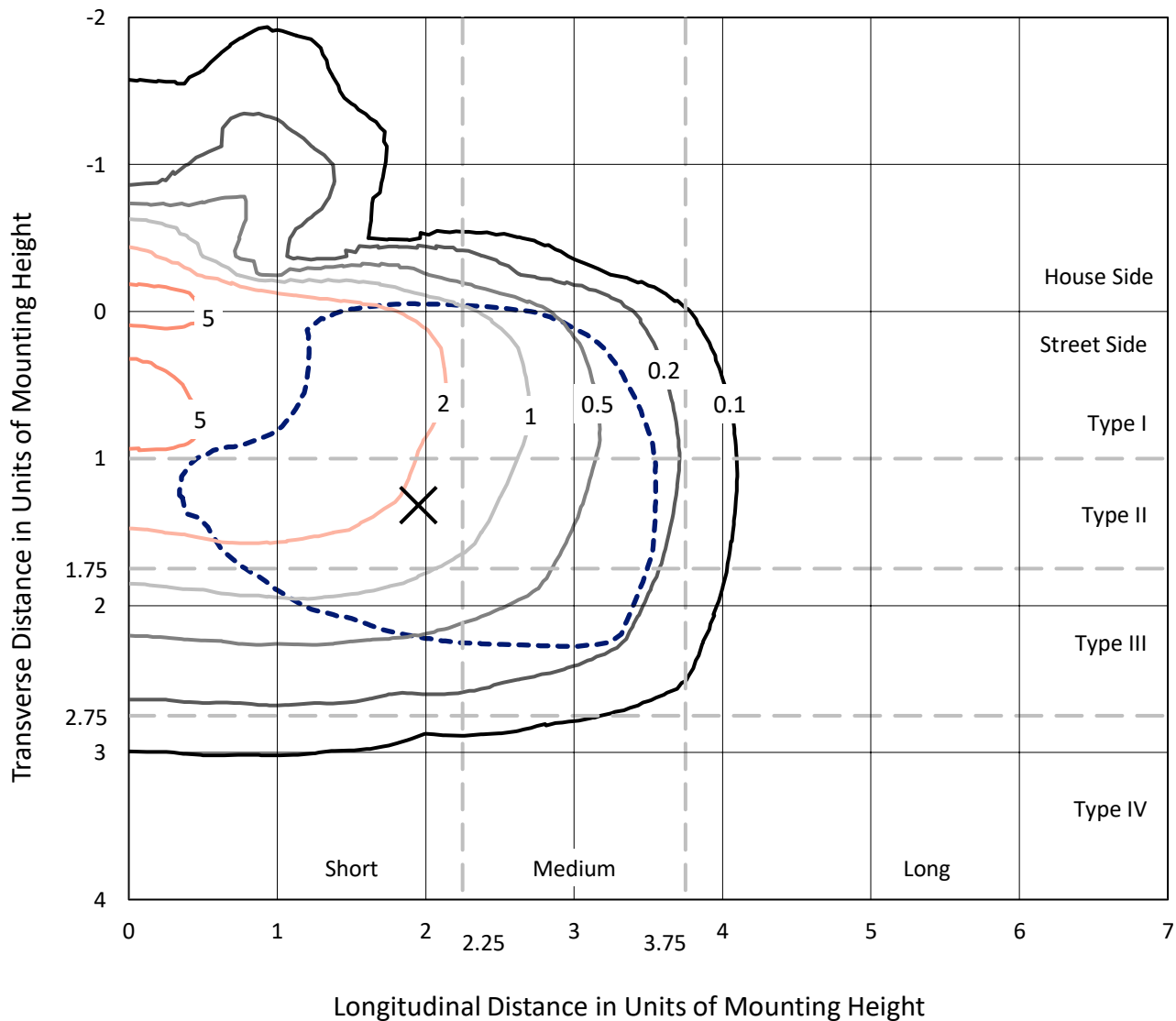
Lumens per Lamp: N/A  
Luminaire Lumens: 23418.7 lumens  
Efficiency: N/A  
Efficacy: 127.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 184.1  
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

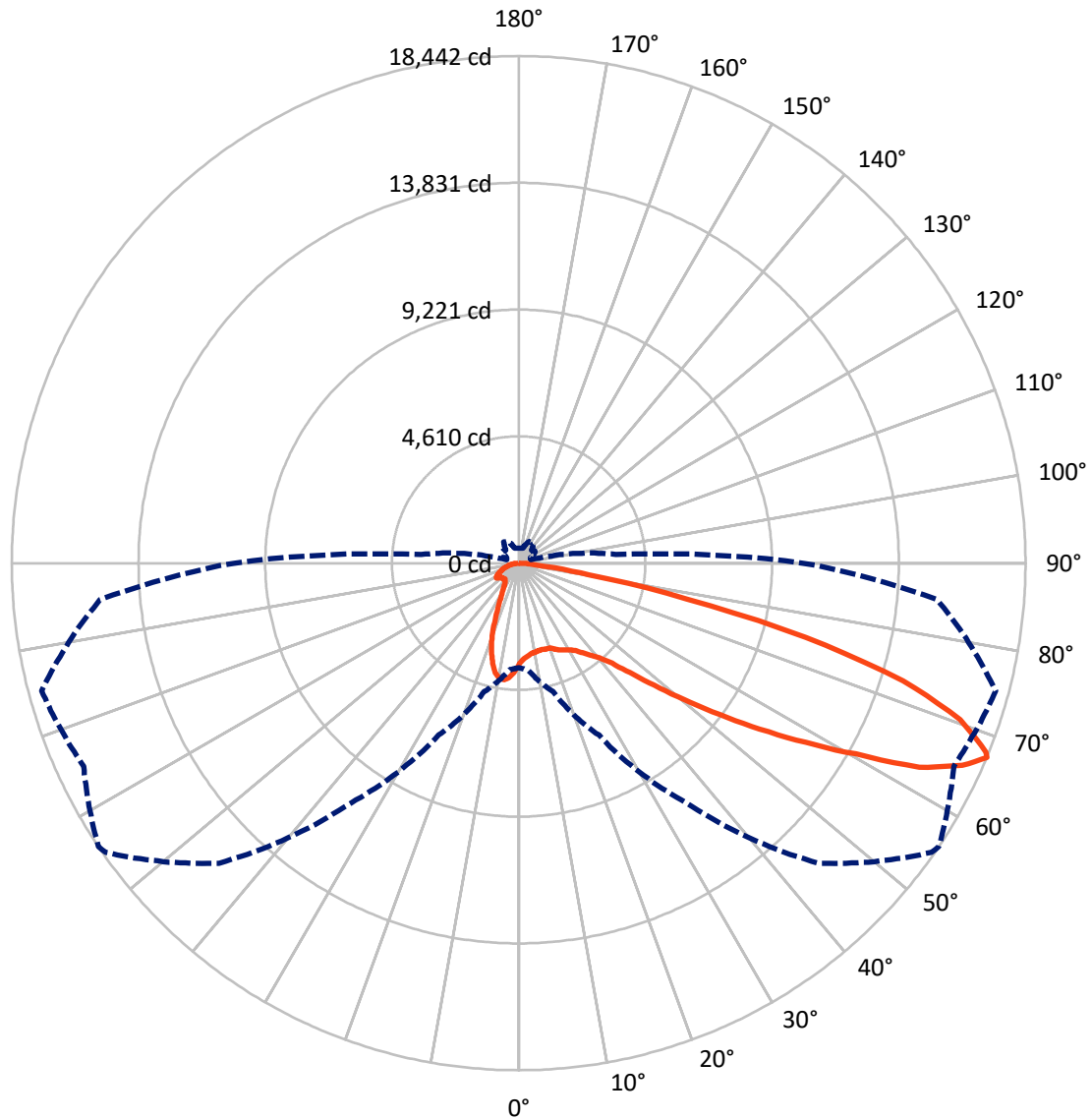
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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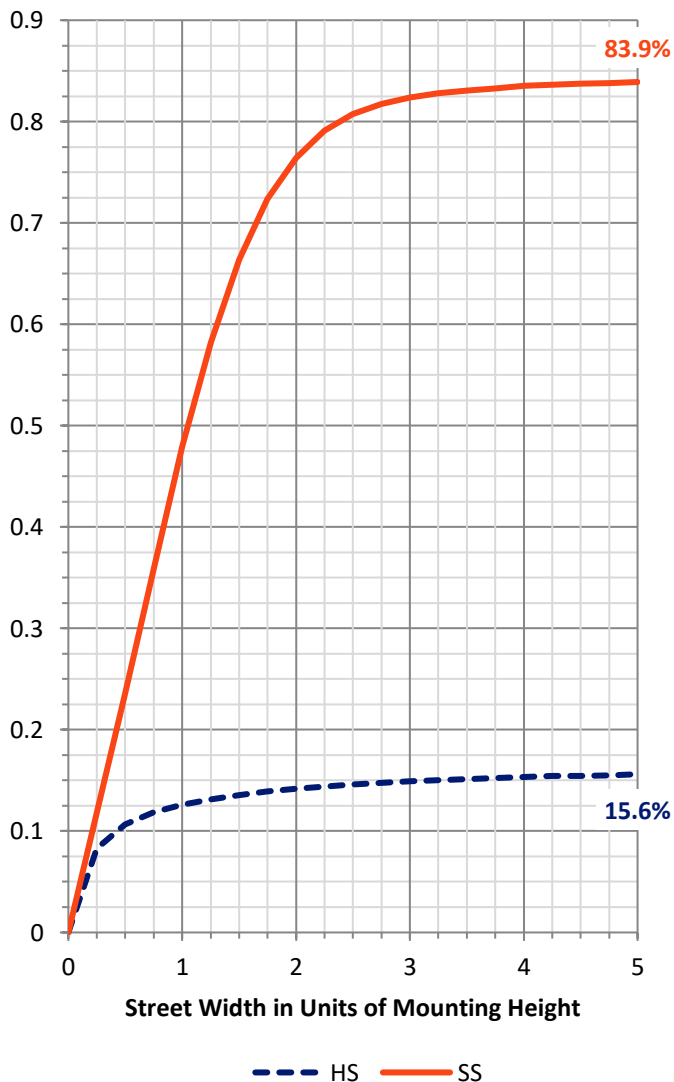
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3707.4	0.0	3707.4
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	19711.3	0.0	19711.3
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	23418.7	0.0	23418.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	351.0	1.5
10°-20°	957.7	4.1
20°-30°	1501.9	6.4
30°-40°	2144.0	9.2
40°-50°	3236.0	13.8
50°-60°	5151.1	22.0
60°-70°	6585.3	28.1
70°-80°	3210.8	13.7
80°-90°	280.9	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°	23418.7	100.0
0°-180°	23418.7	100.0

**Coefficient of Utilization**

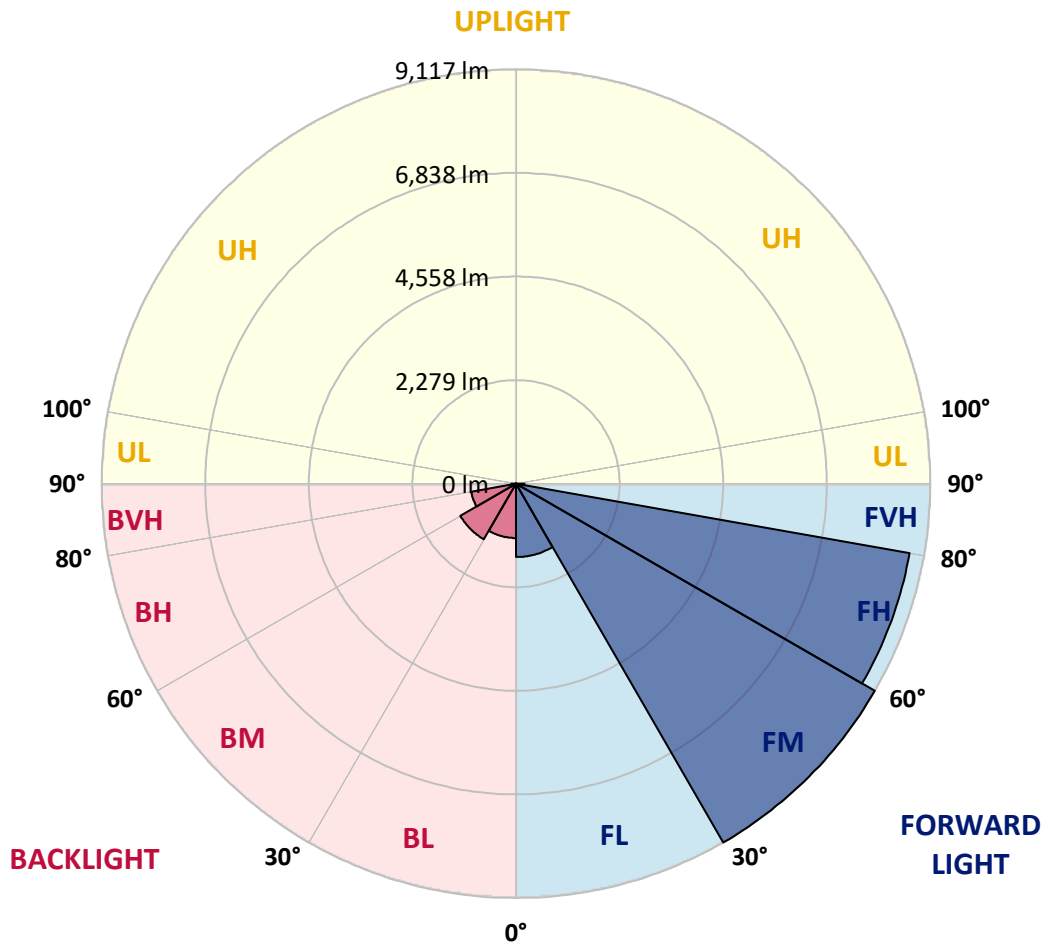


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1613.8	6.9			
FM (30°-60°)	9116.7	38.9			
FH (60°-80°)	8794.2	37.6			G4/12000
FVH (80°-90°)	186.5	0.8			G2/225
BL (0°-30°)	1196.9	5.1	B3/2500		
BM (30°-60°)	1414.4	6.0	B2/2500		
BH (60°-80°)	1001.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	94.3	0.4			G1/100
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°	3643.9	3643.9	3643.9	3643.9	3643.9	3643.9	3643.9	3643.9	3643.9	3643.9
2.5°	3347.3	3333.6	3350.1	3333.6	3407.7	3451.7	3465.4	3484.6	3553.3	3619.2
5°	3207.3	3146.9	3212.8	3234.7	3240.2	3314.4	3391.3	3405.0	3440.7	3547.8
7.5°	2973.9	3042.5	3017.8	3083.7	3152.4	3226.5	3352.8	3317.1	3448.9	3550.5
10°	2924.4	2929.9	2957.4	2982.1	3042.5	3138.6	3314.4	3292.4	3427.0	3643.9
12.5°	2973.9	2973.9	2965.6	2946.4	3015.1	3108.4	3248.5	3259.5	3470.9	3671.3
15°	3146.9	3179.8	3091.9	3105.7	3078.2	3108.4	3232.0	3256.7	3487.4	3693.3
17.5°	3569.7	3558.8	3454.4	3308.9	3188.1	3168.8	3254.0	3281.4	3470.9	3756.5
20°	3981.6	3959.7	3778.4	3627.4	3388.5	3275.9	3289.7	3292.4	3498.3	3797.7
22.5°	4440.2	4497.9	4300.2	3992.6	3696.1	3416.0	3361.1	3405.0	3561.5	3819.6
25°	5159.7	5036.1	4865.8	4462.2	3984.4	3632.9	3479.1	3501.1	3621.9	3874.5
27.5°	5678.6	5629.2	5362.9	5036.1	4388.0	3803.2	3542.3	3583.5	3731.8	3871.8
30°	6178.4	6178.4	6016.4	5527.6	4813.7	4088.7	3676.8	3657.6	3679.6	3866.3
32.5°	6763.3	6683.7	6450.3	6126.2	5349.1	4349.6	3783.9	3789.4	3789.4	3967.9
35°	7070.8	7199.9	7043.4	6516.2	5758.3	4783.5	4042.0	4000.9	3970.7	4080.5
37.5°	7521.2	7598.1	7433.3	7123.0	6266.3	5134.9	4270.0	4237.0	4061.3	4168.4
40°	7793.0	7779.3	7773.8	7631.0	6939.0	5549.6	4605.0	4519.8	4283.7	4478.7
42.5°	7946.8	7919.3	8257.1	8169.2	7573.4	6159.2	5025.1	4978.4	4717.6	5030.6
45°	8119.8	8323.0	8600.3	8847.5	8312.0	7015.9	5736.3	5670.4	5437.0	5835.2
47.5°	8270.8	8520.7	8874.9	9138.5	8979.3	7946.8	6615.0	6631.5	6477.7	6886.9
50°	8523.5	8548.2	9028.7	9561.4	9685.0	8806.3	7795.8	7768.3	7699.7	8273.6
52.5°	8446.6	8520.7	9127.6	9808.6	10011.8	9715.2	9064.4	9146.8	9056.2	9778.4
55°	7194.4	7416.8	9067.2	10069.4	10786.1	10742.2	10695.5	10640.6	10635.1	11469.9
57.5°	6626.0	6807.2	7988.0	10357.8	11615.4	11939.4	12241.5	12301.9	12299.1	13306.9
60°	6252.5	6439.3	7551.4	10201.2	12321.1	13507.4	14086.8	14095.0	14078.5	15270.3
62.5°	5522.1	5703.4	6796.2	9344.5	12516.1	14954.5	16245.1	16352.2	15597.0	16961.8
65°	4643.4	4791.7	5755.5	8034.7	11997.1	15874.4	17867.9	17741.6	16876.7	17928.4
67°	3797.7	3896.5	4835.6	6897.8	10640.6	15432.3	18337.5	18441.8	17467.0	17969.5
67.5°	3556.0	3646.6	4533.6	6510.7	10124.3	15097.3	18354.0	18337.5	17478.0	17977.8
70°	2468.6	2507.1	3089.2	4478.7	7458.0	12755.0	17014.0	17052.4	16744.8	17003.0
72.5°	1636.6	1694.3	2065.0	2822.8	4396.3	9281.3	14221.3	14633.2	14438.2	13941.2
75°	1054.4	1087.4	1351.0	1680.5	2163.8	5286.0	10506.0	10780.6	10333.0	8622.3
77.5°	590.4	626.1	815.5	1021.5	1054.4	2199.5	5901.1	6241.6	5288.7	3663.1
80°	368.0	414.6	615.1	606.9	502.5	807.3	2432.9	2605.9	2114.4	1260.4
82.5°	277.3	313.0	475.1	425.6	282.8	359.7	911.7	977.6	774.4	486.0
85°	189.5	238.9	343.2	263.6	148.3	173.0	362.5	389.9	354.2	236.2
87.5°	68.6	101.6	178.5	131.8	65.9	52.2	118.1	131.8	126.3	107.1
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°
3643.9	0°	3643.9	3643.9	3643.9	3643.9	3643.9	3643.9	3643.9	3643.9	3643.9	3643.9
3676.8	2.5°	3729.0	3767.5	3786.7	3899.3	3945.9	3937.7	3948.7	3965.2	3981.6	4003.6
3723.5	5°	3759.2	3877.3	3940.4	4072.3	4160.1	4121.7	4171.1	4157.4	4138.2	4135.4
3808.6	7.5°	3858.1	4009.1	4198.6	4234.3	4272.7	4176.6	4094.2	3981.6	3954.2	3858.1
3880.0	10°	4033.8	4157.4	4388.0	4401.8	4231.5	3984.4	3800.4	3567.0	3564.3	3424.2
3989.9	12.5°	4201.3	4341.4	4528.1	4448.5	4042.0	3704.3	3405.0	3149.6	3042.5	2971.1
4055.8	15°	4305.7	4536.3	4635.2	4291.9	3709.8	3254.0	2866.8	2592.2	2482.3	2430.2
4138.2	17.5°	4401.8	4723.0	4679.1	4017.3	3300.6	2789.9	2328.6	2089.7	2059.5	2021.0
4270.0	20°	4533.6	4791.7	4522.6	3660.4	2836.6	2191.3	1897.5	1782.1	1809.6	1826.1
4283.7	22.5°	4657.1	4827.4	4324.9	3270.4	2240.7	1735.4	1589.9	1614.6	1655.8	1710.7
4316.6	25°	4712.1	4885.1	4058.5	2732.2	1705.2	1460.8	1427.9	1469.1	1537.7	1540.5
4363.3	27.5°	4747.8	4843.9	3737.2	2207.7	1348.3	1276.9	1326.3	1356.5	1364.7	1397.7
4462.2	30°	4810.9	4758.7	3330.8	1578.9	1131.3	1134.1	1197.2	1197.2	1197.2	1222.0
4561.0	32.5°	4920.8	4701.1	2855.8	1153.3	974.8	1062.7	1046.2	1040.7	1029.7	999.5
4687.3	35°	4989.4	4544.6	2254.4	854.0	876.0	974.8	969.3	884.2	741.4	670.0
5008.6	37.5°	5132.2	4464.9	1658.6	659.0	818.3	930.9	900.7	694.7	538.2	469.6
5406.8	40°	5439.7	4412.8	1147.8	576.7	779.9	908.9	804.6	593.1	411.9	291.1
6021.9	42.5°	5815.9	4415.5	779.9	543.7	782.6	955.6	774.4	508.0	291.1	233.4
6842.9	45°	6321.2	4374.3	535.5	543.7	832.0	1032.5	793.6	461.3	282.8	296.6
7872.7	47.5°	6864.9	4410.0	398.2	494.3	840.3	1035.2	724.9	453.1	271.8	343.2
8993.0	50°	7499.2	4445.7	329.5	455.8	843.0	1002.3	667.3	442.1	282.8	362.5
10278.1	52.5°	8152.7	4558.3	280.1	431.1	876.0	988.5	667.3	458.6	282.8	315.8
11914.7	55°	9127.6	4846.6	403.7	538.2	996.8	1079.2	821.0	642.6	395.4	406.4
13482.7	57.5°	10204.0	5143.2	450.3	565.7	1024.2	972.1	884.2	708.5	417.4	420.1
14701.9	60°	10912.4	5154.2	447.6	551.9	958.3	840.3	865.0	746.9	425.6	359.7
15457.0	62.5°	11195.3	4819.2	466.8	551.9	892.4	785.3	886.9	804.6	439.4	450.3
15671.2	65°	10874.0	4127.2	450.3	494.3	785.3	703.0	892.4	815.5	480.5	453.1
15286.7	67°	10371.5	3556.0	458.6	469.6	730.4	667.3	939.1	856.7	557.4	543.7
15086.3	67.5°	10228.7	3405.0	455.8	455.8	711.2	656.3	950.1	856.7	568.4	562.9
13315.1	70°	9015.0	2759.7	466.8	450.3	628.8	623.3	1010.5	903.4	653.5	659.0
9781.1	72.5°	6862.1	2092.4	464.1	450.3	546.4	595.9	1018.8	933.6	711.2	659.0
5478.2	75°	3899.3	1252.2	409.1	392.7	431.1	519.0	952.8	889.7	692.0	590.4
2188.5	77.5°	1611.9	645.3	376.2	354.2	357.0	422.9	793.6	829.3	659.0	502.5
730.4	80°	601.4	387.2	302.1	282.8	274.6	310.3	565.7	661.8	562.9	411.9
321.3	82.5°	313.0	241.6	205.9	205.9	186.7	197.7	304.8	439.4	425.6	282.8
129.1	85°	159.3	137.3	118.1	115.3	104.3	93.4	153.8	260.9	244.4	156.5
57.7	87.5°	85.1	76.9	49.4	46.7	38.4	24.7	27.5	52.2	85.1	68.6
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°
3643.9
4025.6
4160.1
3891.0
3418.7
2954.7
2419.2
2040.2
1806.8
1680.5
1567.9
1427.9
1249.4
983.1
703.0
466.8
282.8
227.9
302.1
381.7
420.1
324.0
428.4
406.4
370.7
455.8
444.8
535.5
551.9
609.6
584.9
527.2
475.1
376.2
222.4
129.1
49.4
0.0

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