

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: P477826

Luminaire Tested: **IFLD-M-SA4B-750-U-T3R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477826  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-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**

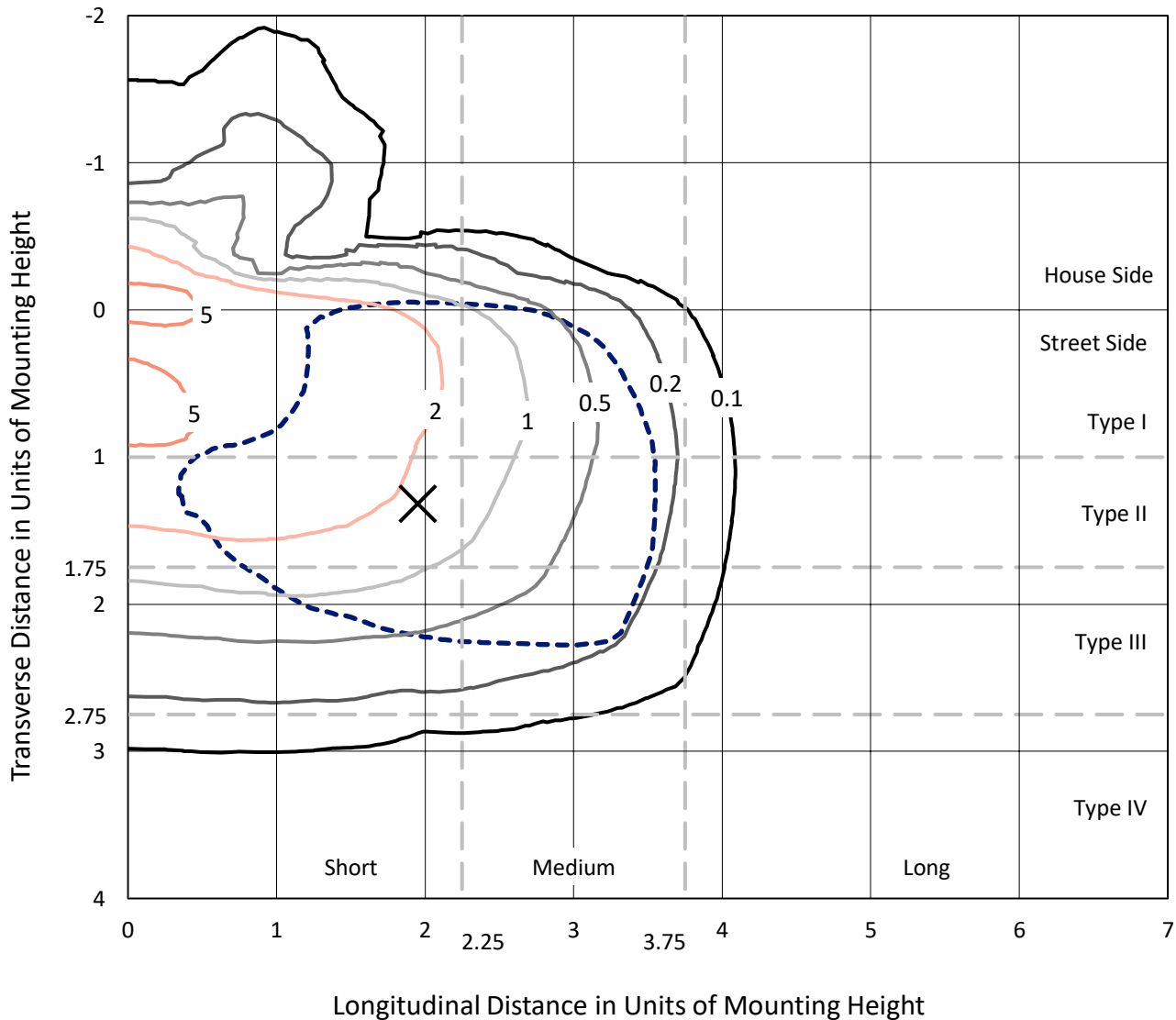
Lumens per Lamp: N/A  
Luminaire Lumens: 22948.9 lumens  
Efficiency: N/A  
Efficacy: 138.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 166.1  
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

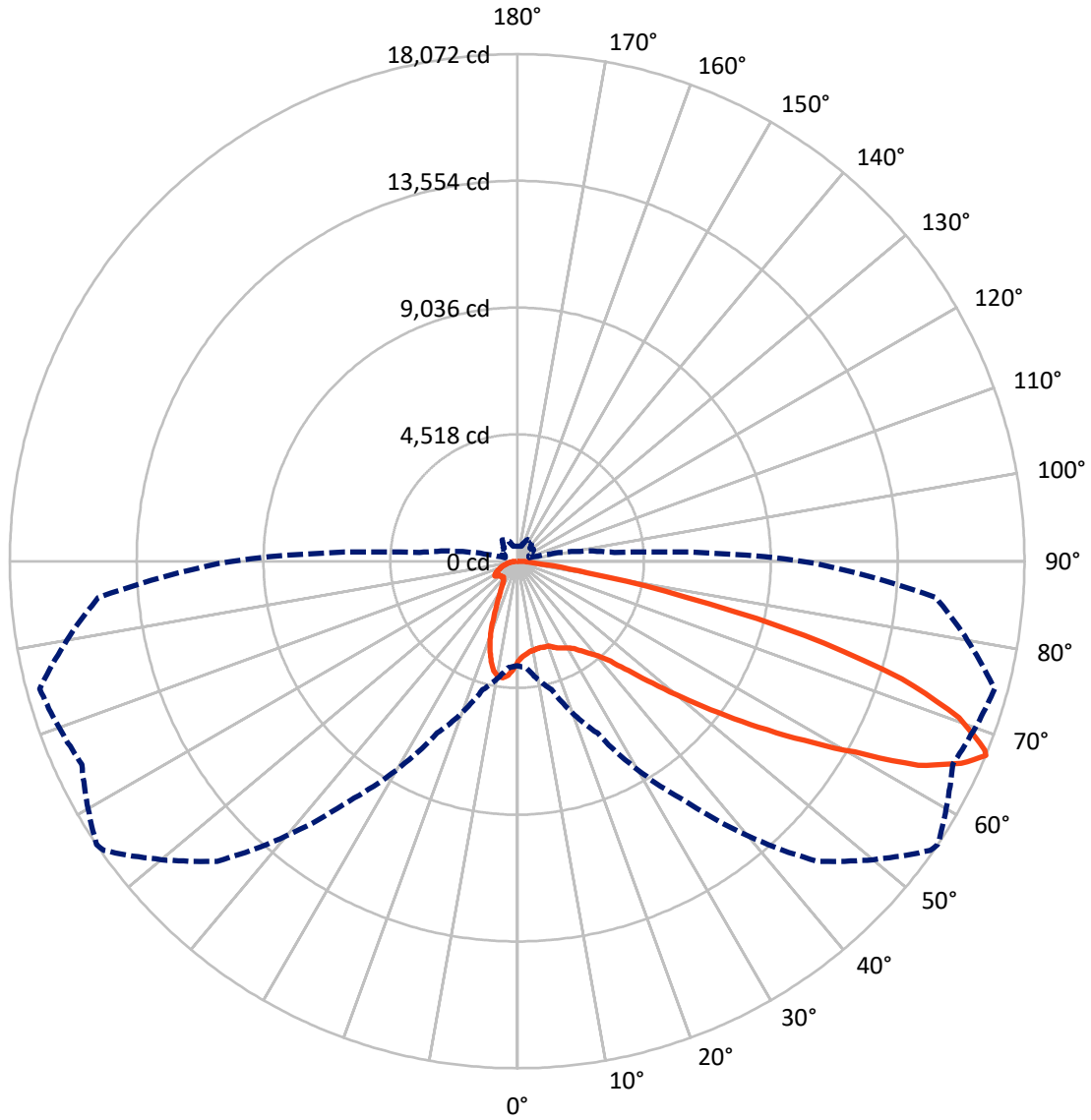
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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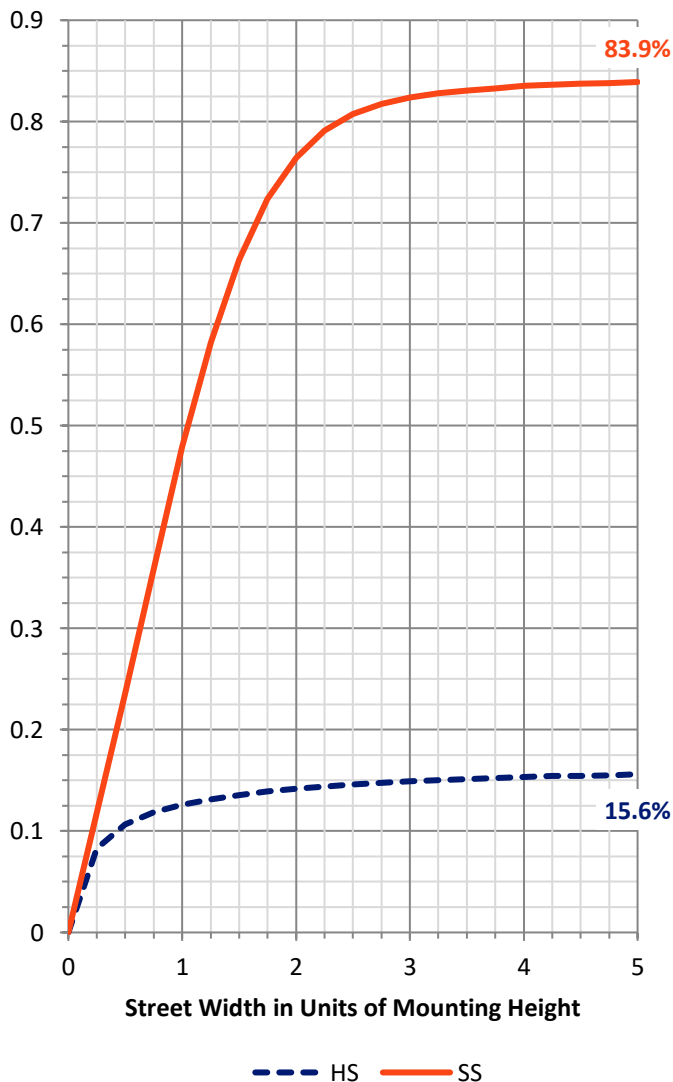
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3633.0	0.0	3633.0
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	19315.8	0.0	19315.8
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	22948.9	0.0	22948.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.0	1.5
10°-20°	938.5	4.1
20°-30°	1471.8	6.4
30°-40°	2101.0	9.2
40°-50°	3171.1	13.8
50°-60°	5047.8	22.0
60°-70°	6453.2	28.1
70°-80°	3146.3	13.7
80°-90°	275.2	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°	22948.9	100.0
0°-180°	22948.9	100.0

**Coefficient of Utilization**

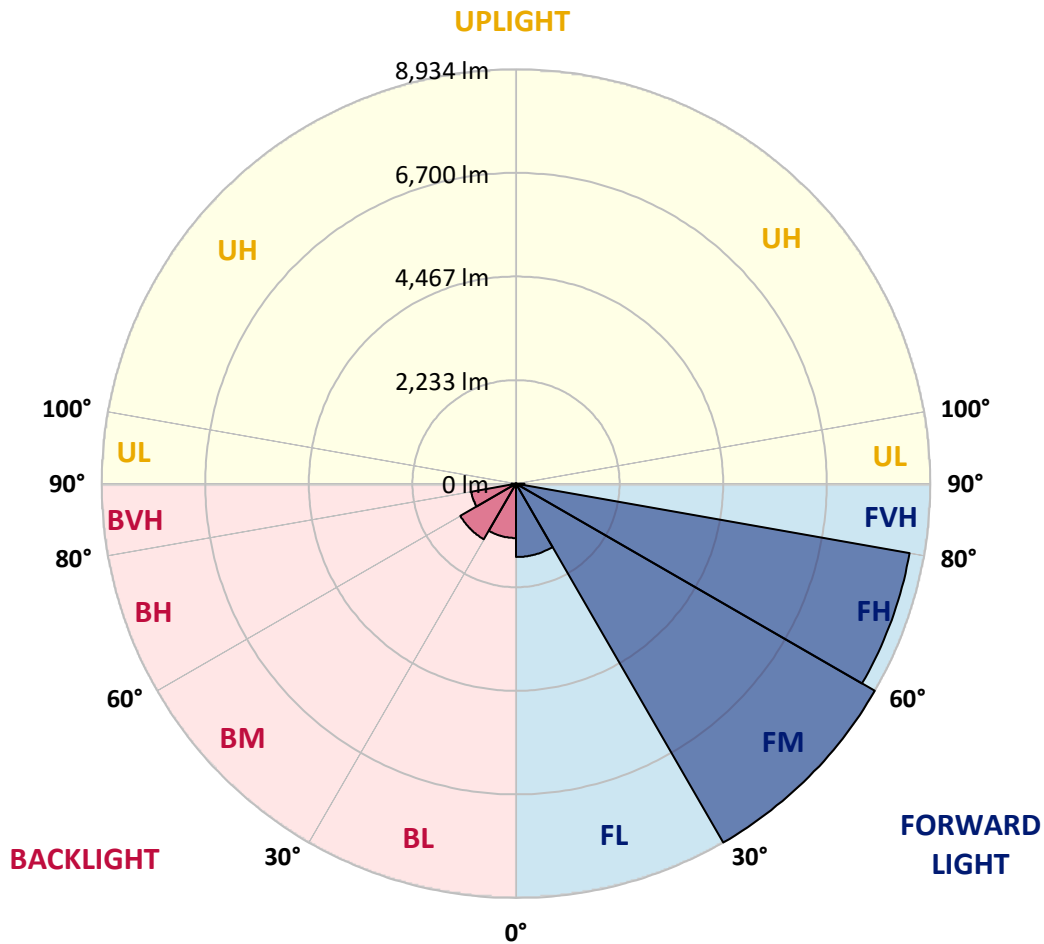


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1581.4	6.9			
FM (30°-60°)	8933.8	38.9			
FH (60°-80°)	8617.8	37.6			G4/12000
FVH (80°-90°)	182.8	0.8			G2/225
BL (0°-30°)	1172.8	5.1	B3/2500		
BM (30°-60°)	1386.0	6.0	B2/2500		
BH (60°-80°)	981.7	4.3	B2/1000		G2/1000
BVH (80°-90°)	92.4	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°	3570.8	3570.8	3570.8	3570.8	3570.8	3570.8	3570.8	3570.8	3570.8	3570.8
2.5°	3280.2	3266.7	3282.9	3266.7	3339.4	3382.4	3395.9	3414.7	3482.0	3546.6
5°	3142.9	3083.7	3148.3	3169.8	3175.2	3247.9	3323.2	3336.7	3371.7	3476.6
7.5°	2914.2	2981.5	2957.3	3021.8	3089.1	3161.8	3285.6	3250.6	3379.7	3479.3
10°	2865.8	2871.2	2898.1	2922.3	2981.5	3075.7	3247.9	3226.4	3358.2	3570.8
12.5°	2914.2	2914.2	2906.1	2887.3	2954.6	3046.1	3183.3	3194.1	3401.3	3597.7
15°	3083.7	3116.0	3029.9	3043.4	3016.5	3046.1	3167.2	3191.4	3417.4	3619.2
17.5°	3498.1	3487.4	3385.1	3242.5	3124.1	3105.3	3188.7	3215.6	3401.3	3681.1
20°	3901.8	3880.2	3702.6	3554.6	3320.5	3210.2	3223.7	3226.4	3428.2	3721.5
22.5°	4351.1	4407.6	4213.9	3912.5	3621.9	3347.4	3293.6	3336.7	3490.1	3743.0
25°	5056.1	4935.1	4768.2	4372.7	3904.5	3560.0	3409.3	3430.9	3549.3	3796.8
27.5°	5564.7	5516.3	5255.3	4935.1	4300.0	3726.9	3471.2	3511.6	3656.9	3794.1
30°	6054.5	6054.5	5895.7	5416.7	4717.1	4006.7	3603.1	3584.2	3605.8	3788.7
32.5°	6627.6	6549.6	6320.9	6003.3	5241.8	4262.3	3708.0	3713.4	3713.4	3888.3
35°	6929.0	7055.5	6902.1	6385.4	5642.8	4687.5	3961.0	3920.6	3891.0	3998.6
37.5°	7370.3	7445.6	7284.2	6980.1	6140.6	5031.9	4184.3	4152.0	3979.8	4084.7
40°	7636.7	7623.2	7617.9	7477.9	6799.8	5438.2	4512.6	4429.2	4197.8	4388.8
42.5°	7787.4	7760.5	8091.4	8005.3	7421.4	6035.6	4924.3	4878.5	4622.9	4929.7
45°	7956.9	8156.0	8427.8	8670.0	8145.3	6875.2	5621.2	5556.6	5327.9	5718.1
47.5°	8104.9	8349.8	8696.9	8955.2	8799.1	7787.4	6482.3	6498.5	6347.8	6748.7
50°	8352.5	8376.7	8847.6	9369.6	9490.7	8629.6	7639.4	7612.5	7545.2	8107.6
52.5°	8277.1	8349.8	8944.5	9611.8	9810.9	9520.3	8882.6	8963.3	8874.5	9582.2
55°	7050.1	7268.0	8885.3	9867.4	10569.7	10526.7	10480.9	10427.1	10421.7	11239.8
57.5°	6493.1	6670.7	7827.7	10150.0	11382.4	11699.9	11995.9	12055.1	12052.4	13040.0
60°	6127.1	6310.1	7399.9	9996.6	12073.9	13236.4	13804.2	13812.2	13796.1	14963.9
62.5°	5411.3	5588.9	6659.9	9157.0	12265.0	14654.5	15919.2	16024.1	15284.1	16621.5
65°	4550.3	4695.6	5640.1	7873.5	11756.4	15555.9	17509.5	17385.7	16538.1	17568.7
67°	3721.5	3818.3	4738.6	6759.5	10427.1	15122.7	17969.6	18071.9	17116.6	17609.1
67.5°	3484.7	3573.5	4442.6	6380.1	9921.2	14794.4	17985.8	17969.6	17127.4	17617.1
70°	2419.1	2456.8	3027.2	4388.8	7308.4	12499.1	16672.6	16710.3	16408.9	16661.9
72.5°	1603.8	1660.3	2023.5	2766.2	4308.1	9095.1	13936.0	14339.6	14148.6	13661.5
75°	1033.3	1065.6	1323.9	1646.8	2120.4	5179.9	10295.3	10564.4	10125.7	8449.3
77.5°	578.5	613.5	799.2	1001.0	1033.3	2155.4	5782.7	6116.3	5182.6	3589.6
80°	360.6	406.3	602.8	594.7	492.4	791.1	2384.1	2553.6	2072.0	1235.1
82.5°	271.8	306.8	465.5	417.1	277.2	352.5	893.4	957.9	758.8	476.3
85°	185.7	234.1	336.4	258.3	145.3	169.5	355.2	382.1	347.1	231.4
87.5°	67.3	99.6	174.9	129.2	64.6	51.1	115.7	129.2	123.8	104.9
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°
3570.8	0°	3570.8	3570.8	3570.8	3570.8	3570.8	3570.8	3570.8	3570.8	3570.8	3570.8
3603.1	2.5°	3654.2	3691.9	3710.7	3821.0	3866.8	3858.7	3869.5	3885.6	3901.8	3923.3
3648.8	5°	3683.8	3799.5	3861.4	3990.6	4076.7	4039.0	4087.4	4074.0	4055.1	4052.5
3732.2	7.5°	3780.7	3928.7	4114.3	4149.3	4187.0	4092.8	4012.1	3901.8	3874.9	3780.7
3802.2	10°	3952.9	4074.0	4300.0	4313.5	4146.6	3904.5	3724.2	3495.4	3492.7	3355.5
3909.8	12.5°	4117.0	4254.3	4437.2	4359.2	3961.0	3630.0	3336.7	3086.4	2981.5	2911.5
3974.4	15°	4219.3	4445.3	4542.2	4205.8	3635.4	3188.7	2809.3	2540.2	2432.5	2381.4
4055.1	17.5°	4313.5	4628.3	4585.2	3936.7	3234.4	2733.9	2281.9	2047.8	2018.2	1980.5
4184.3	20°	4442.6	4695.6	4431.9	3586.9	2779.7	2147.3	1859.4	1746.4	1773.3	1789.4
4197.8	22.5°	4563.7	4730.5	4238.1	3204.8	2195.8	1700.6	1558.0	1582.2	1622.6	1676.4
4230.0	25°	4617.5	4787.1	3977.1	2677.4	1671.0	1431.5	1399.3	1439.6	1506.9	1509.6
4275.8	27.5°	4652.5	4746.7	3662.3	2163.5	1321.2	1251.3	1299.7	1329.3	1337.4	1369.7
4372.7	30°	4714.4	4663.3	3264.0	1547.3	1108.6	1111.3	1173.2	1173.2	1173.2	1197.4
4469.5	32.5°	4822.0	4606.8	2798.5	1130.2	955.3	1041.4	1025.2	1019.8	1009.1	979.5
4593.3	35°	4889.3	4453.4	2209.2	836.9	858.4	955.3	949.9	866.5	726.5	656.6
4908.1	37.5°	5029.2	4375.4	1625.3	645.8	801.9	912.2	882.6	680.8	527.4	460.1
5298.3	40°	5330.6	4324.2	1124.8	565.1	764.2	890.7	788.4	581.2	403.6	285.2
5901.1	42.5°	5699.3	4326.9	764.2	532.8	766.9	936.4	758.8	497.8	285.2	228.7
6705.6	45°	6194.4	4286.6	524.7	532.8	815.3	1011.8	777.7	452.1	277.2	290.6
7714.7	47.5°	6727.2	4321.5	390.2	484.4	823.4	1014.5	710.4	444.0	266.4	336.4
8812.6	50°	7348.8	4356.5	322.9	446.7	826.1	982.2	653.9	433.2	277.2	355.2
10071.9	52.5°	7989.2	4466.8	274.5	422.5	858.4	968.7	653.9	449.4	277.2	309.5
11675.7	55°	8944.5	4749.4	395.6	527.4	976.8	1057.5	804.6	629.7	387.5	398.2
13212.2	57.5°	9999.3	5040.0	441.3	554.3	1003.7	952.6	866.5	694.2	409.0	411.7
14406.9	60°	10693.5	5050.8	438.6	540.9	939.1	823.4	847.6	731.9	417.1	352.5
15146.9	62.5°	10970.7	4722.5	457.4	540.9	874.5	769.6	869.2	788.4	430.5	441.3
15356.8	65°	10655.8	4044.4	441.3	484.4	769.6	688.9	874.5	799.2	470.9	444.0
14980.1	67°	10163.4	3484.7	449.4	460.1	715.8	653.9	920.3	839.6	546.2	532.8
14783.6	67.5°	10023.5	3336.7	446.7	446.7	696.9	643.1	931.0	839.6	557.0	551.6
13048.0	70°	8834.1	2704.3	457.4	441.3	616.2	610.8	990.2	885.3	640.4	645.8
9584.9	72.5°	6724.5	2050.4	454.8	441.3	535.5	583.9	998.3	914.9	696.9	645.8
5368.3	75°	3821.0	1227.0	400.9	384.8	422.5	508.6	933.7	871.8	678.1	578.5
2144.6	77.5°	1579.5	632.4	368.6	347.1	349.8	414.4	777.7	812.6	645.8	492.4
715.8	80°	589.3	379.4	296.0	277.2	269.1	304.1	554.3	648.5	551.6	403.6
314.8	82.5°	306.8	236.8	201.8	201.8	183.0	193.7	298.7	430.5	417.1	277.2
126.5	85°	156.1	134.5	115.7	113.0	102.3	91.5	150.7	255.6	239.5	153.4
56.5	87.5°	83.4	75.3	48.4	45.7	37.7	24.2	26.9	51.1	83.4	67.3
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°
3570.8
3944.8
4076.7
3813.0
3350.1
2895.4
2370.7
1999.3
1770.6
1646.8
1536.5
1399.3
1224.3
963.3
688.9
457.4
277.2
223.3
296.0
374.0
411.7
317.5
419.8
398.2
363.3
446.7
435.9
524.7
540.9
597.4
573.2
516.6
465.5
368.6
218.0
126.5
48.4
0.0

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