

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: P638087

Luminaire Tested: **IFLD-M-SA4B-727-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638087
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-727-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14691.9 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

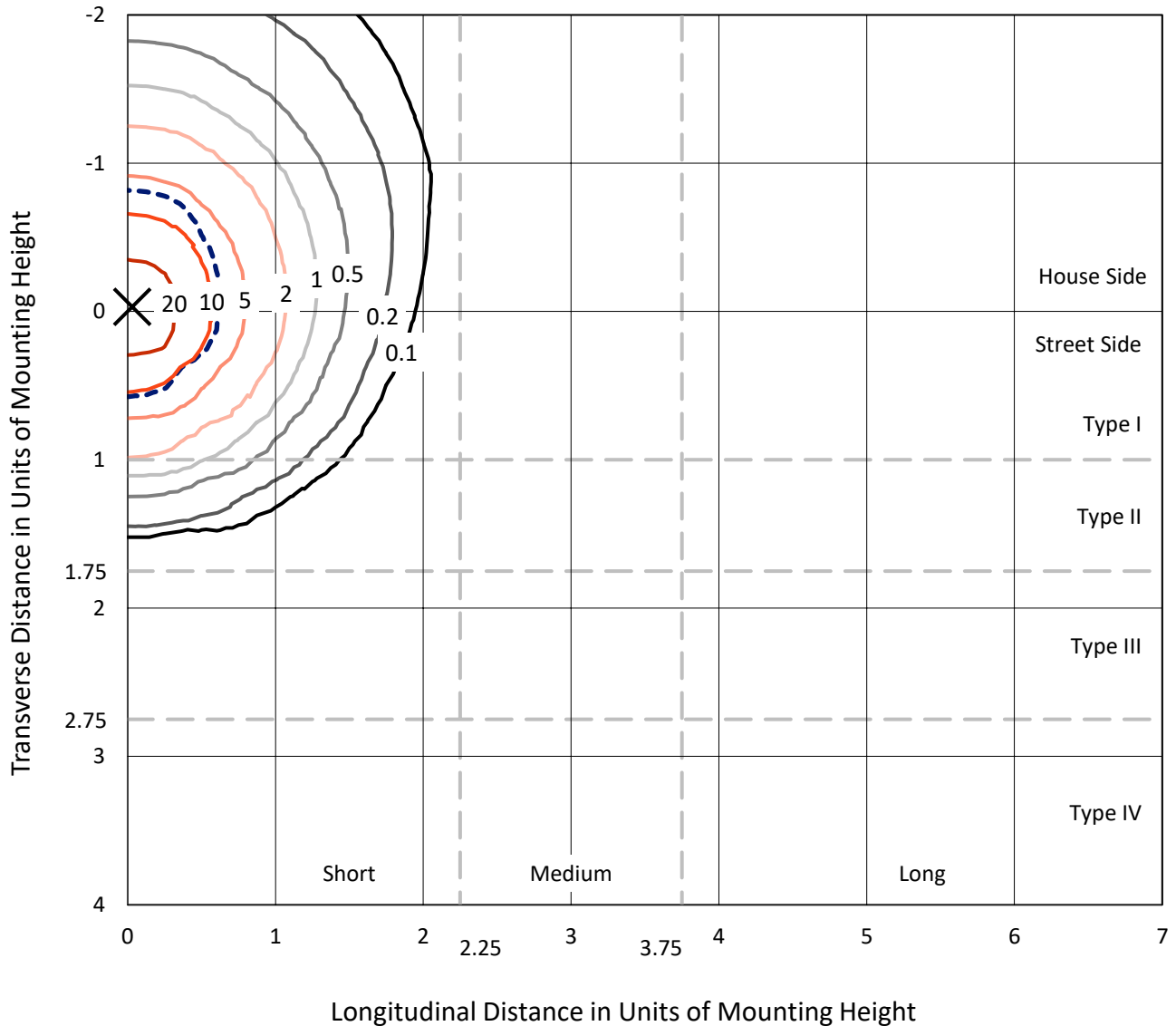
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

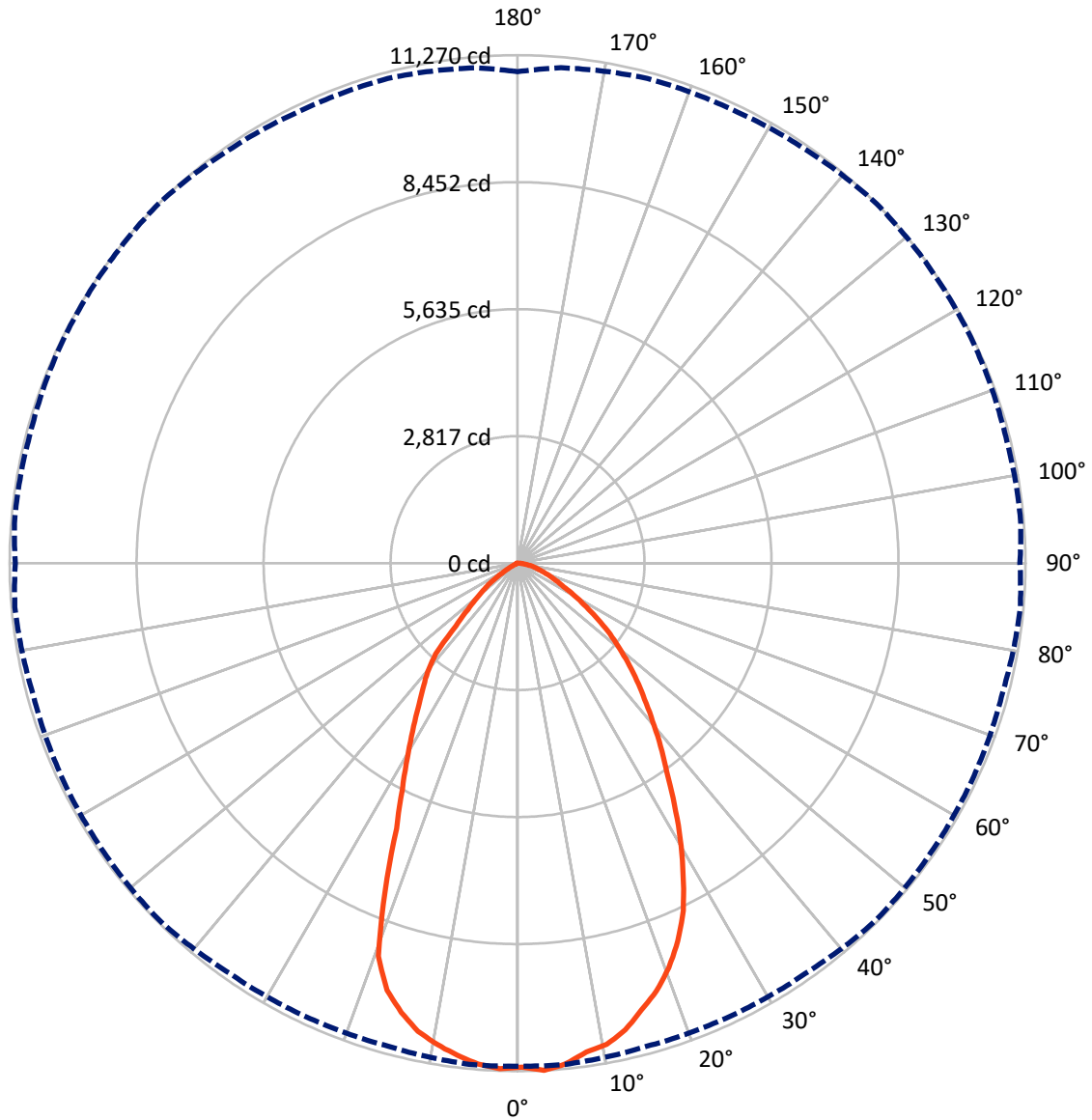
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 28 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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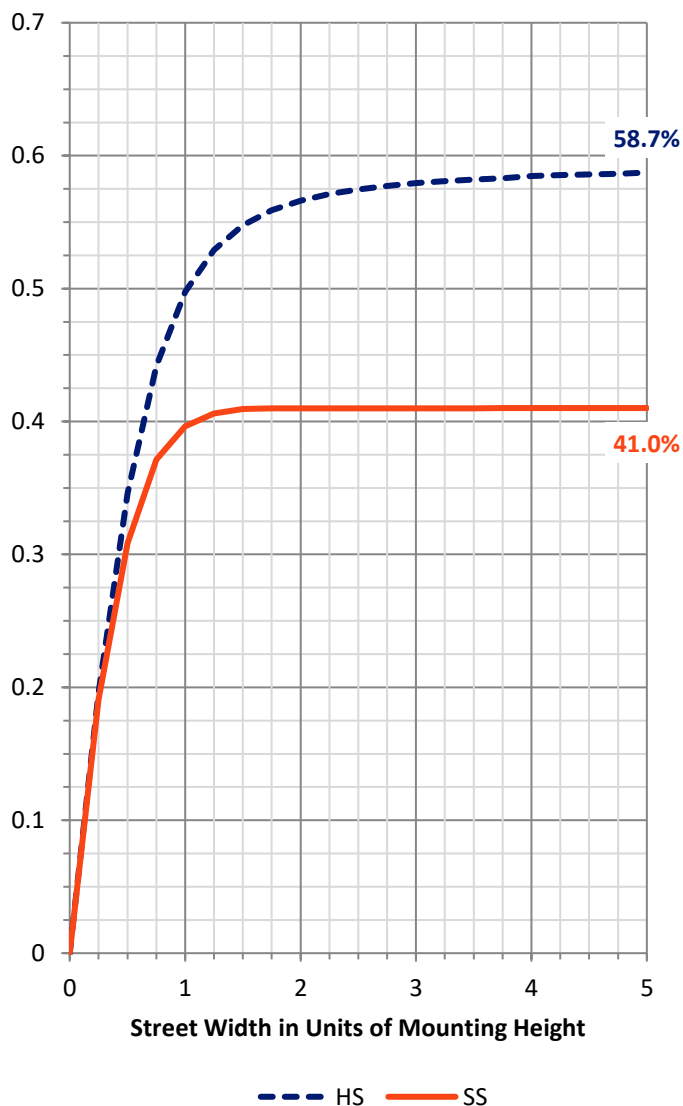
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8701.3	0.0	8701.3
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	5990.6	0.0	5990.6
	% Fixture	40.8	0.0	40.8
Total	Lumens	14691.9	0.0	14691.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1048.6	7.1
10°-20°	2811.8	19.1
20°-30°	3429.1	23.3
30°-40°	3130.7	21.3
40°-50°	2262.5	15.4
50°-60°	1235.4	8.4
60°-70°	510.8	3.5
70°-80°	206.9	1.4
80°-90°	56.3	0.4
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°	14691.9	100.0
0°-180°	14691.9	100.0



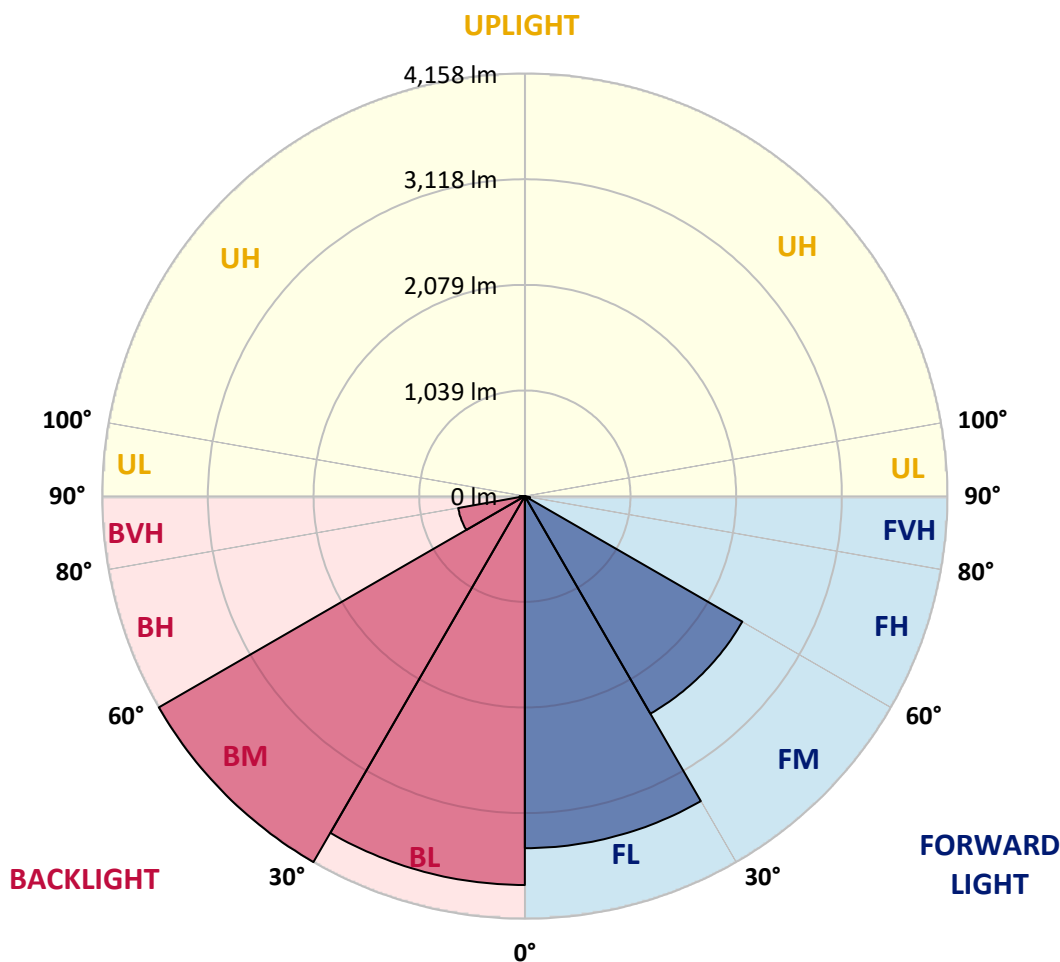
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3463.4	23.6			
FM (30°-60°)	2470.9	16.8			
FH (60°-80°)	51.8	0.4			G0/660
FVH (80°-90°)	4.5	0.0			G0/10
BL (0°-30°)	3826.0	26.0	B4/5000		
BM (30°-60°)	4157.7	28.3	B3/5000		
BH (60°-80°)	665.9	4.5	B2/1000		G2/1000
BVH (80°-90°)	51.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11180.5	11180.5	11180.5	11180.5	11180.5	11180.5	11180.5	11180.5	11180.5	11180.5
2.5°	11159.8	11174.3	11095.7	11103.9	11118.4	11223.9	11197.0	11172.2	11137.0	11197.0
5°	11145.3	11153.6	11070.8	11041.9	11054.3	11149.5	11062.6	11062.6	11054.3	11043.9
7.5°	11033.6	11037.7	10973.6	10921.9	10955.0	10998.4	10934.3	10965.3	10919.8	10955.0
10°	10866.0	10839.1	10762.6	10748.1	10785.3	10826.7	10783.3	10812.2	10770.8	10797.7
12.5°	10619.8	10578.4	10516.4	10497.7	10561.9	10617.7	10582.6	10566.0	10512.2	10578.4
15°	9670.2	9639.1	9779.8	10026.0	10247.4	10295.0	10257.7	10274.3	10162.6	10181.2
17.5°	7959.2	7901.2	8052.3	8635.7	9467.4	9906.0	9872.9	9765.3	9599.8	9637.1
20°	7233.0	7216.4	7199.9	7338.5	7919.9	9250.2	9295.7	9022.6	8786.7	8735.0
22.5°	6823.3	6817.1	6800.6	6831.6	6984.7	7839.2	8360.5	8108.1	7950.9	7936.4
25°	6448.9	6438.5	6388.9	6428.2	6428.2	6477.8	7146.1	7299.2	7160.6	7144.0
27.5°	6068.2	6049.5	6041.3	6059.9	5964.7	5629.6	5799.2	6546.1	6473.7	6477.8
30°	5656.5	5650.2	5627.5	5666.8	5373.0	4957.2	4849.6	5863.3	5877.8	5873.7
32.5°	5044.0	5070.9	5174.4	5217.8	4733.7	4390.3	4210.3	5073.0	5368.9	5362.7
35°	3664.1	3664.1	4001.3	4628.2	4148.2	3889.6	3792.3	4301.3	4866.1	4886.8
37.5°	3012.4	3022.7	3088.9	3374.4	3579.2	3488.2	3459.2	3620.6	4220.6	4253.7
40°	2710.3	2710.3	2710.3	2592.4	2586.2	3142.7	3126.2	3074.4	3645.5	3717.9
42.5°	2435.1	2441.3	2445.5	2147.5	1982.0	2716.5	2679.3	2600.6	3130.3	3215.1
45°	2151.7	2162.0	2174.4	1795.8	1723.4	1955.1	2267.5	2180.7	2621.3	2731.0
47.5°	1313.8	1330.3	1611.7	1522.7	1531.0	1508.2	1849.6	1835.1	2149.6	2304.8
50°	887.6	893.8	920.7	966.2	1313.8	1185.5	1309.6	1518.6	1632.4	1868.2
52.5°	744.8	755.2	689.0	626.9	862.7	926.9	914.5	1127.6	1173.1	1464.8
55°	523.4	556.5	525.5	519.3	490.3	720.0	693.1	866.9	895.8	1113.1
57.5°	53.8	62.1	107.6	386.9	320.7	407.6	494.5	635.2	664.1	821.4
60°	4.1	4.1	10.3	53.8	233.8	244.1	341.4	391.0	446.9	573.1
62.5°	0.0	2.1	4.1	8.3	37.2	130.3	171.7	204.8	269.0	370.3
65°	0.0	0.0	2.1	6.2	8.3	49.7	66.2	107.6	146.9	229.7
67.5°	0.0	0.0	2.1	4.1	6.2	12.4	22.8	39.3	78.6	130.3
70°	0.0	0.0	2.1	4.1	6.2	10.3	16.6	24.8	35.2	70.3
72.5°	0.0	0.0	2.1	2.1	4.1	10.3	12.4	16.6	24.8	35.2
75°	0.0	0.0	2.1	2.1	6.2	12.4	10.3	12.4	16.6	22.8
77.5°	0.0	0.0	2.1	4.1	6.2	12.4	10.3	12.4	12.4	14.5
80°	0.0	0.0	2.1	4.1	8.3	14.5	12.4	12.4	10.3	10.3
82.5°	0.0	0.0	2.1	6.2	8.3	18.6	18.6	16.6	8.3	6.2
85°	0.0	0.0	4.1	8.3	12.4	20.7	20.7	16.6	6.2	4.1
87.5°	0.0	0.0	4.1	6.2	10.3	14.5	20.7	16.6	6.2	2.1
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
11180.5	0°	11180.5	11180.5	11180.5	11180.5	11180.5	11180.5	11180.5	11180.5	11180.5
11145.3	2.5°	11201.2	11188.8	11230.1	11246.7	11269.5	11182.6	11128.8	11130.8	11031.5
11019.1	5°	11085.3	11087.4	11141.2	11137.0	11159.8	11112.2	11091.5	11056.4	10969.5
10859.8	7.5°	10938.4	10919.8	10971.5	11010.8	10952.9	10986.0	10938.4	10955.0	10903.3
10719.1	10°	10824.6	10781.2	10828.8	10855.7	10857.7	10824.6	10779.1	10735.7	10717.1
10499.8	12.5°	10572.2	10516.4	10597.1	10634.3	10628.1	10564.0	10512.2	10522.6	10462.6
10115.0	15°	10224.6	10226.7	10284.6	10319.8	10286.7	10272.2	10276.4	10251.5	10199.8
9583.3	17.5°	9692.9	9724.0	9877.1	9961.9	9980.5	9951.5	9937.1	9908.1	9856.4
8735.0	20°	8807.4	8993.6	9266.7	9529.5	9581.2	9572.9	9521.2	9508.8	9479.8
7895.0	22.5°	8029.5	8168.1	8484.7	8894.3	9105.4	9126.0	9064.0	9045.4	9014.3
7144.0	25°	7224.7	7373.7	7659.2	8104.0	8540.5	8629.5	8619.2	8563.3	8530.2
6477.8	27.5°	6546.1	6695.1	6953.7	7355.0	7822.6	8108.1	8135.0	8046.1	8044.0
5884.0	30°	5933.7	6138.5	6335.1	6662.0	7115.0	7543.3	7588.8	7526.8	7533.0
5339.9	32.5°	5453.7	5623.3	5790.9	6010.2	6386.8	6885.4	7063.3	7005.4	6982.6
4886.8	35°	4963.4	5079.2	5250.9	5451.6	5708.2	6202.6	6510.9	6467.5	6444.7
4274.4	37.5°	4404.7	4603.4	4727.5	4953.0	5153.7	5546.8	5981.3	5975.1	5927.5
3753.0	40°	3831.7	4040.6	4228.9	4456.5	4611.6	4924.1	5406.1	5404.0	5410.2
3213.0	42.5°	3312.4	3504.8	3732.3	3980.6	4129.6	4357.2	4874.4	4903.4	4938.5
2768.2	45°	2842.7	3016.5	3227.5	3529.6	3709.6	3839.9	4299.2	4431.6	4429.6
2371.0	47.5°	2420.6	2584.1	2762.0	3055.8	3285.5	3403.4	3784.1	3972.3	3959.9
1944.8	50°	2031.7	2176.5	2362.7	2575.8	2884.1	2987.5	3271.0	3519.2	3500.6
1549.6	52.5°	1634.5	1835.1	1992.4	2186.9	2511.7	2613.1	2832.4	3074.4	3059.9
1162.7	55°	1274.5	1468.9	1659.3	1826.9	2100.0	2251.0	2408.2	2656.5	2652.4
910.3	57.5°	964.1	1177.2	1357.2	1516.5	1733.8	1920.0	2046.2	2271.7	2300.6
622.7	60°	713.8	877.2	1071.7	1249.6	1421.4	1613.8	1698.6	1920.0	1932.4
426.2	62.5°	486.2	666.2	856.5	1017.9	1146.2	1344.8	1421.4	1603.4	1626.2
273.1	65°	337.2	453.1	670.3	786.2	943.4	1113.1	1189.6	1334.5	1380.0
157.2	67.5°	223.4	322.8	523.4	629.0	784.1	900.0	997.2	1115.2	1164.8
99.3	70°	122.1	237.9	374.5	496.5	631.0	742.7	837.9	933.1	976.5
45.5	72.5°	82.8	159.3	260.7	393.1	509.0	618.6	703.4	773.8	775.8
26.9	75°	41.4	107.6	198.6	304.1	397.2	504.8	581.4	622.7	573.1
16.6	77.5°	24.8	78.6	161.4	244.1	322.8	407.6	451.0	473.8	393.1
12.4	80°	14.5	55.9	126.2	194.5	223.4	300.0	341.4	347.6	262.8
8.3	82.5°	10.3	41.4	99.3	142.8	136.5	211.0	256.5	248.3	167.6
6.2	85°	6.2	29.0	62.1	89.0	82.8	138.6	149.0	153.1	97.2
4.1	87.5°	4.1	16.6	33.1	47.6	39.3	60.0	60.0	72.4	47.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11180.5
10903.3
10948.8
10816.4
10634.3
10410.9
10148.1
9833.6
9413.6
9006.0
8495.0
8039.9
7501.9
6984.7
6413.7
5966.8
5410.2
4919.9
4433.7
3964.1
3517.2
3091.0
2662.7
2288.2
1951.0
1630.3
1369.6
1158.6
960.0
757.2
535.9
378.6
246.2
155.2
89.0
41.4
0.0

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