

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: P638059

Luminaire Tested: **IFLD-M-SA4C-722-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638059
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-722-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16108.8 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

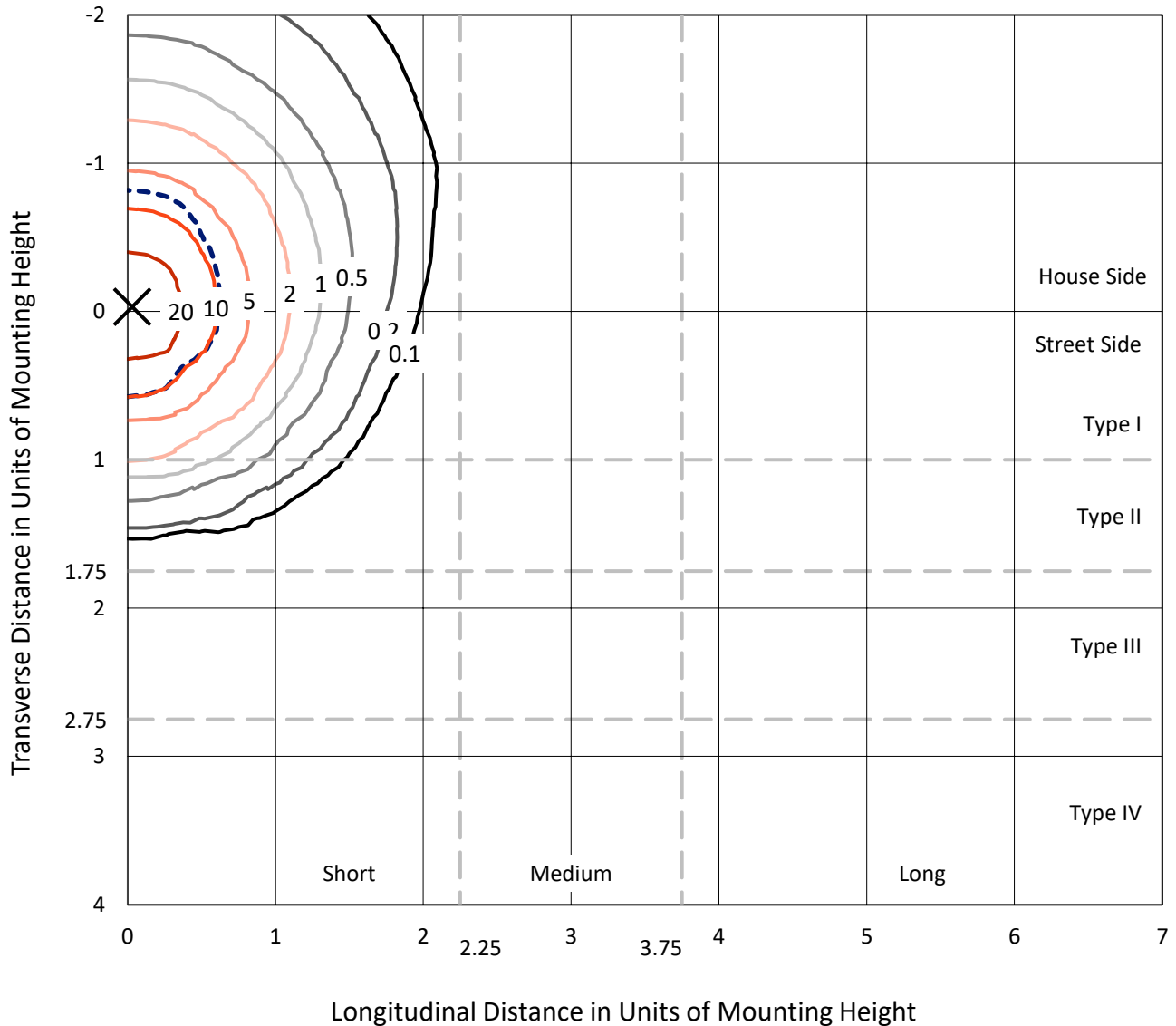
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

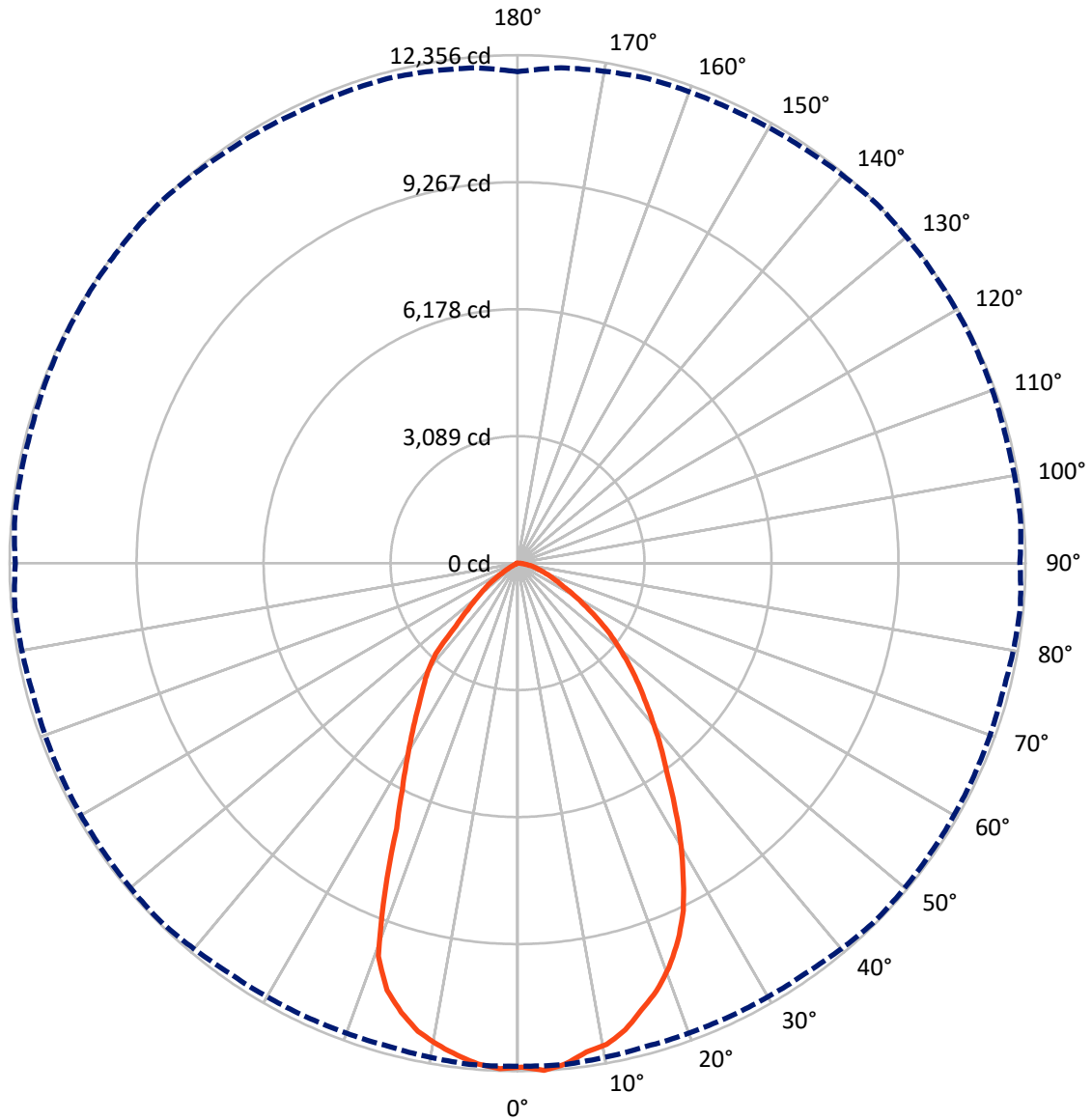
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 30.6 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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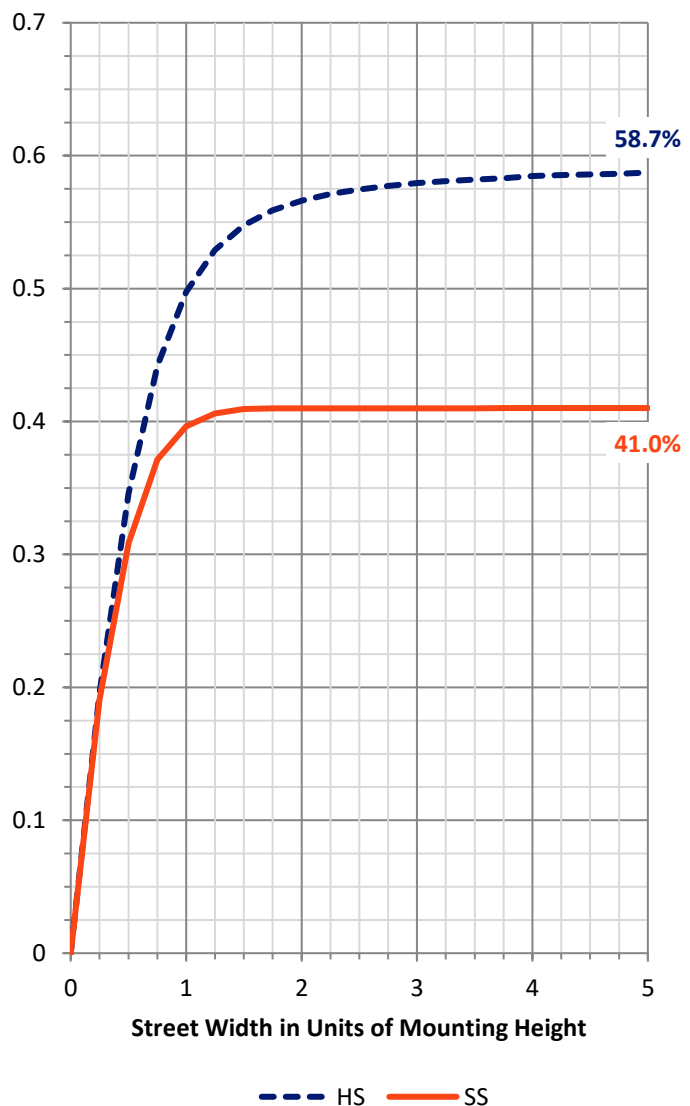
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9540.5	0.0	9540.5
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	6568.4	0.0	6568.4
	% Fixture	40.8	0.0	40.8
Total	Lumens	16108.8	0.0	16108.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1149.7	7.1
10°-20°	3082.9	19.1
20°-30°	3759.8	23.3
30°-40°	3432.7	21.3
40°-50°	2480.7	15.4
50°-60°	1354.5	8.4
60°-70°	560.0	3.5
70°-80°	226.8	1.4
80°-90°	61.7	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°	16108.8	100.0
0°-180°	16108.8	100.0



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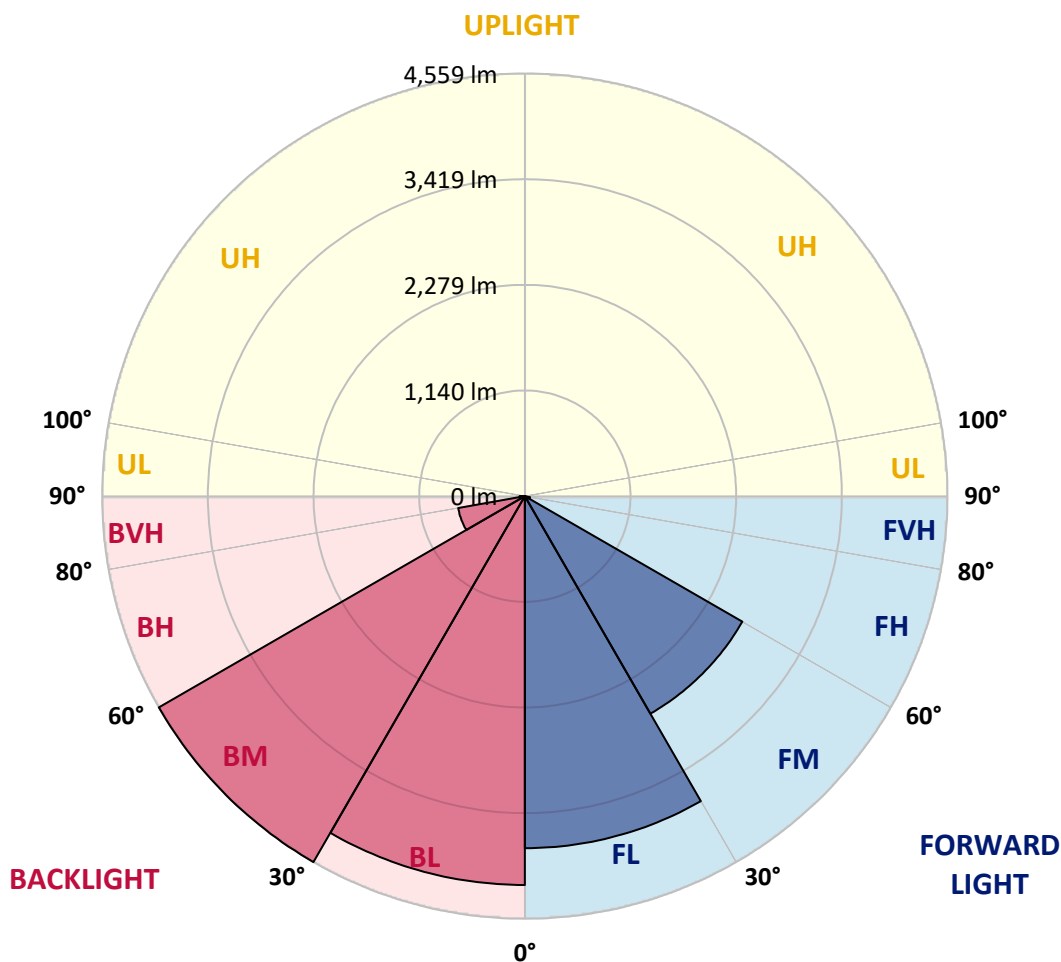
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3797.5	23.6			
FM (30°-60°)	2709.2	16.8			
FH (60°-80°)	56.8	0.4			G0/660
FVH (80°-90°)	4.9	0.0			G0/10
BL (0°-30°)	4195.0	26.0	B4/5000		
BM (30°-60°)	4558.7	28.3	B3/5000		
BH (60°-80°)	730.1	4.5	B2/1000		G2/1000
BVH (80°-90°)	56.8	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°	12258.8	12258.8	12258.8	12258.8	12258.8	12258.8	12258.8	12258.8	12258.8	12258.8
2.5°	12236.1	12252.0	12165.8	12174.9	12190.7	12306.4	12276.9	12249.7	12211.2	12276.9
5°	12220.2	12229.3	12138.6	12106.8	12120.4	12224.8	12129.5	12129.5	12120.4	12109.1
7.5°	12097.7	12102.3	12031.9	11975.2	12011.5	12059.2	11988.8	12022.9	11973.0	12011.5
10°	11914.0	11884.5	11800.6	11784.7	11825.5	11870.9	11823.2	11855.0	11809.6	11839.1
12.5°	11644.0	11598.7	11530.6	11510.2	11580.5	11641.8	11603.2	11585.1	11526.1	11598.7
15°	10602.8	10568.8	10723.0	10993.0	11235.7	11287.9	11247.1	11265.2	11142.7	11163.1
17.5°	8726.8	8663.3	8828.9	9468.6	10380.5	10861.4	10825.1	10707.2	10525.7	10566.5
20°	7930.6	7912.4	7894.3	8046.2	8683.7	10142.3	10192.2	9892.8	9634.2	9577.5
22.5°	7481.4	7474.6	7456.4	7490.5	7658.3	8595.2	9166.9	8890.1	8717.7	8701.8
25°	7070.8	7059.5	7005.0	7048.1	7048.1	7102.6	7835.3	8003.1	7851.2	7833.0
27.5°	6653.4	6633.0	6623.9	6644.3	6540.0	6172.5	6358.5	7177.4	7098.0	7102.6
30°	6202.0	6195.2	6170.2	6213.3	5891.2	5435.2	5317.3	6428.8	6444.7	6440.2
32.5°	5530.5	5560.0	5673.4	5721.1	5190.2	4813.7	4616.3	5562.3	5886.7	5879.9
35°	4017.5	4017.5	4387.2	5074.6	4548.3	4264.7	4158.1	4716.1	5335.4	5358.1
37.5°	3302.9	3314.2	3386.8	3699.9	3924.4	3824.6	3792.9	3969.8	4627.7	4664.0
40°	2971.7	2971.7	2971.7	2842.4	2835.6	3445.8	3427.7	3370.9	3997.0	4076.4
42.5°	2670.0	2676.8	2681.3	2354.7	2173.2	2978.5	2937.7	2851.5	3432.2	3525.2
45°	2359.2	2370.5	2384.2	1969.0	1889.6	2143.7	2486.2	2391.0	2874.1	2994.4
47.5°	1440.5	1458.6	1767.1	1669.6	1678.7	1653.7	2028.0	2012.1	2356.9	2527.1
50°	973.2	980.0	1009.5	1059.4	1440.5	1299.8	1435.9	1665.1	1789.8	2048.4
52.5°	816.6	828.0	755.4	687.3	946.0	1016.3	1002.7	1236.3	1286.2	1606.1
55°	573.9	610.2	576.2	569.4	537.6	789.4	759.9	950.5	982.2	1220.4
57.5°	59.0	68.1	118.0	424.2	351.6	446.9	542.2	696.4	728.2	900.6
60°	4.5	4.5	11.3	59.0	256.3	267.7	374.3	428.7	490.0	628.4
62.5°	0.0	2.3	4.5	9.1	40.8	142.9	188.3	224.6	294.9	406.1
65°	0.0	0.0	2.3	6.8	9.1	54.4	72.6	118.0	161.1	251.8
67.5°	0.0	0.0	2.3	4.5	6.8	13.6	25.0	43.1	86.2	142.9
70°	0.0	0.0	2.3	4.5	6.8	11.3	18.1	27.2	38.6	77.1
72.5°	0.0	0.0	2.3	2.3	4.5	11.3	13.6	18.1	27.2	38.6
75°	0.0	0.0	2.3	2.3	6.8	13.6	11.3	13.6	18.1	25.0
77.5°	0.0	0.0	2.3	4.5	6.8	13.6	11.3	13.6	13.6	15.9
80°	0.0	0.0	2.3	4.5	9.1	15.9	13.6	13.6	11.3	11.3
82.5°	0.0	0.0	2.3	6.8	9.1	20.4	20.4	18.1	9.1	6.8
85°	0.0	0.0	4.5	9.1	13.6	22.7	22.7	18.1	6.8	4.5
87.5°	0.0	0.0	4.5	6.8	11.3	15.9	22.7	18.1	6.8	2.3
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°
12258.8	0°	12258.8	12258.8	12258.8	12258.8	12258.8	12258.8	12258.8	12258.8	12258.8
12220.2	2.5°	12281.5	12267.9	12313.2	12331.4	12356.3	12261.1	12202.1	12204.3	12095.5
12081.8	5°	12154.4	12156.7	12215.7	12211.2	12236.1	12183.9	12161.2	12122.7	12027.4
11907.2	7.5°	11993.4	11973.0	12029.7	12072.8	12009.3	12045.6	11993.4	12011.5	11954.8
11752.9	10°	11868.6	11821.0	11873.1	11902.6	11904.9	11868.6	11818.7	11771.1	11750.7
11512.5	12.5°	11591.9	11530.6	11619.1	11659.9	11653.1	11582.8	11526.1	11537.4	11471.6
11090.5	15°	11210.8	11213.0	11276.5	11315.1	11278.8	11262.9	11267.5	11240.2	11183.5
10507.5	17.5°	10627.8	10661.8	10829.7	10922.7	10943.1	10911.3	10895.4	10863.7	10807.0
9577.5	20°	9656.9	9861.0	10160.5	10448.6	10505.3	10496.2	10439.5	10425.9	10394.1
8656.5	22.5°	8803.9	8955.9	9303.0	9752.1	9983.5	10006.2	9938.1	9917.7	9883.7
7833.0	25°	7921.5	8084.8	8397.9	8885.6	9364.2	9461.8	9450.4	9389.2	9352.9
7102.6	27.5°	7177.4	7340.8	7624.3	8064.4	8577.1	8890.1	8919.6	8822.1	8819.8
6451.5	30°	6506.0	6730.5	6946.0	7304.5	7801.3	8270.8	8320.7	8252.7	8259.5
5854.9	32.5°	5979.7	6165.7	6349.4	6589.9	7002.8	7549.5	7744.5	7681.0	7656.1
5358.1	35°	5442.0	5569.1	5757.4	5977.4	6258.7	6800.9	7138.9	7091.2	7066.3
4686.7	37.5°	4829.6	5047.3	5183.4	5430.7	5650.7	6081.8	6558.1	6551.3	6499.2
4115.0	40°	4201.2	4430.3	4636.7	4886.3	5056.4	5398.9	5927.5	5925.2	5932.0
3522.9	42.5°	3631.8	3842.8	4092.3	4364.5	4527.9	4777.4	5344.5	5376.3	5414.8
3035.2	45°	3116.9	3307.4	3538.8	3870.0	4067.4	4210.3	4713.9	4859.1	4856.8
2599.7	47.5°	2654.1	2833.3	3028.4	3350.5	3602.3	3731.6	4149.0	4355.5	4341.8
2132.4	50°	2227.6	2386.4	2590.6	2824.2	3162.2	3275.7	3586.4	3858.7	3838.2
1699.1	52.5°	1792.1	2012.1	2184.5	2397.8	2753.9	2865.1	3105.5	3370.9	3355.1
1274.9	55°	1397.4	1610.6	1819.3	2003.1	2302.5	2468.1	2640.5	2912.7	2908.2
998.1	57.5°	1057.1	1290.8	1488.1	1662.8	1901.0	2105.1	2243.5	2490.8	2522.5
682.8	60°	782.6	961.8	1175.1	1370.2	1558.4	1769.4	1862.4	2105.1	2118.7
467.3	62.5°	533.1	730.4	939.1	1116.1	1256.7	1474.5	1558.4	1758.1	1783.0
299.4	65°	369.8	496.8	735.0	862.0	1034.4	1220.4	1304.4	1463.2	1513.1
172.4	67.5°	245.0	353.9	573.9	689.6	859.7	986.8	1093.4	1222.7	1277.1
108.9	70°	133.8	260.9	410.6	544.4	691.9	814.4	918.7	1023.1	1070.7
49.9	72.5°	90.7	174.7	285.8	431.0	558.0	678.3	771.3	848.4	850.7
29.5	75°	45.4	118.0	217.8	333.5	435.5	553.5	637.4	682.8	628.4
18.1	77.5°	27.2	86.2	176.9	267.7	353.9	446.9	494.5	519.5	431.0
13.6	80°	15.9	61.2	138.4	213.2	245.0	328.9	374.3	381.1	288.1
9.1	82.5°	11.3	45.4	108.9	156.5	149.7	231.4	281.3	272.2	183.7
6.8	85°	6.8	31.8	68.1	97.5	90.7	152.0	163.3	167.9	106.6
4.5	87.5°	4.5	18.1	36.3	52.2	43.1	65.8	65.8	79.4	52.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
12258.8
11954.8
12004.7
11859.5
11659.9
11414.9
11126.8
10782.0
10321.5
9874.6
9314.3
8815.3
8225.5
7658.3
7032.2
6542.3
5932.0
5394.4
4861.3
4346.4
3856.4
3389.1
2919.5
2508.9
2139.2
1787.6
1501.7
1270.3
1052.6
830.3
587.5
415.1
269.9
170.1
97.5
45.4
0.0

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