

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: P638081

Luminaire Tested: **IFLD-S-SA6A-727-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638081
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-727-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17361.8 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

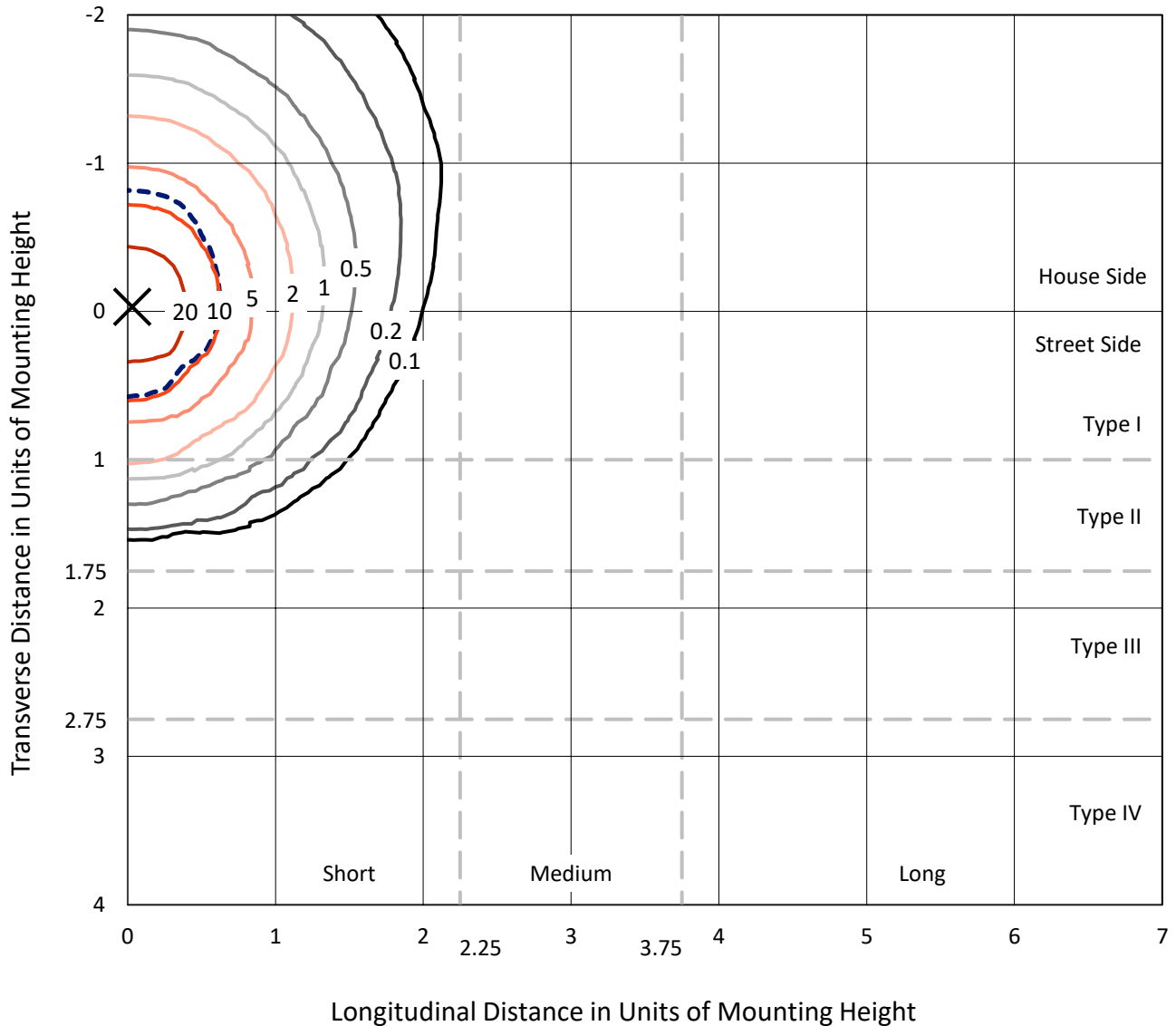
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

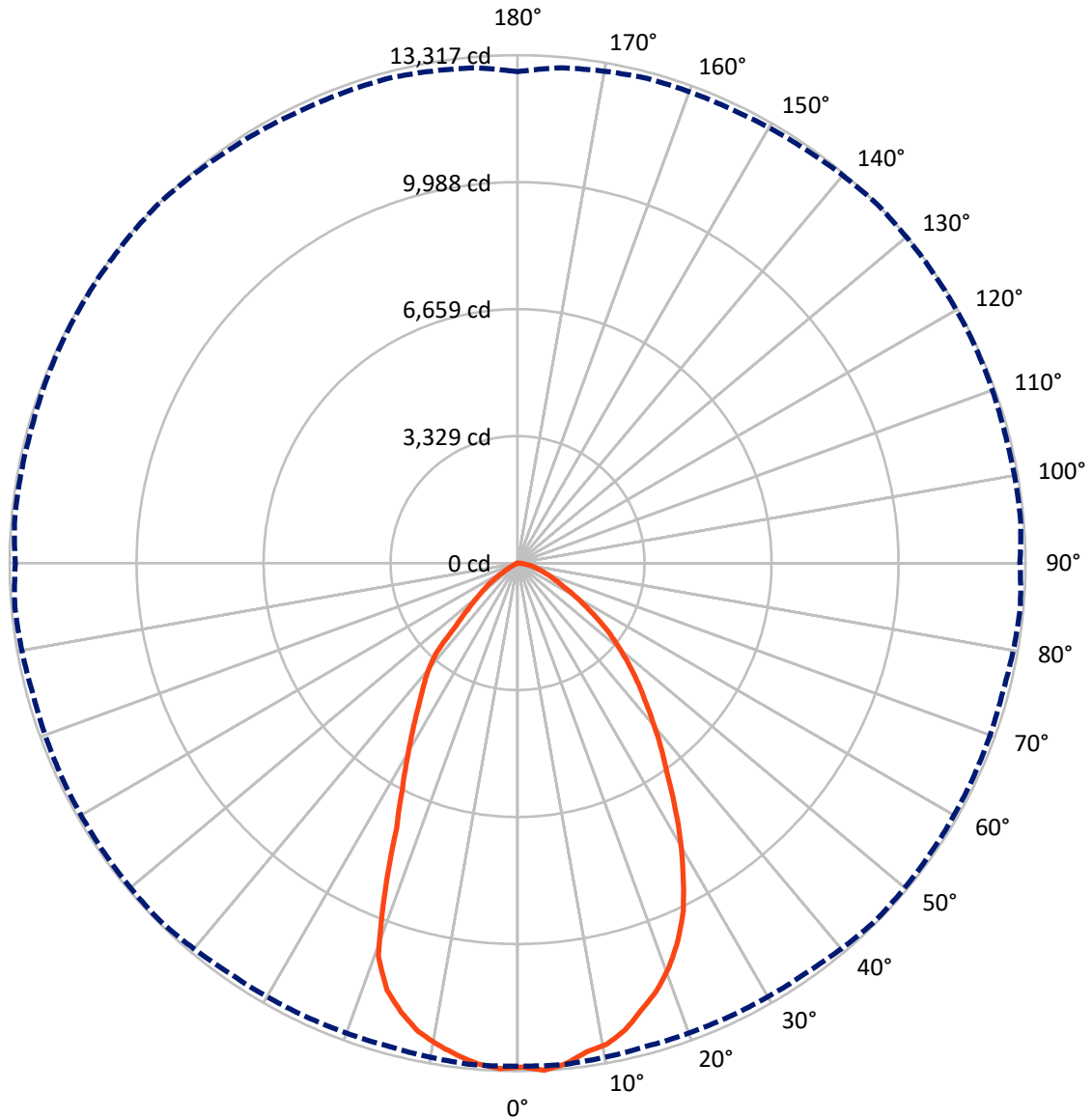
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 33 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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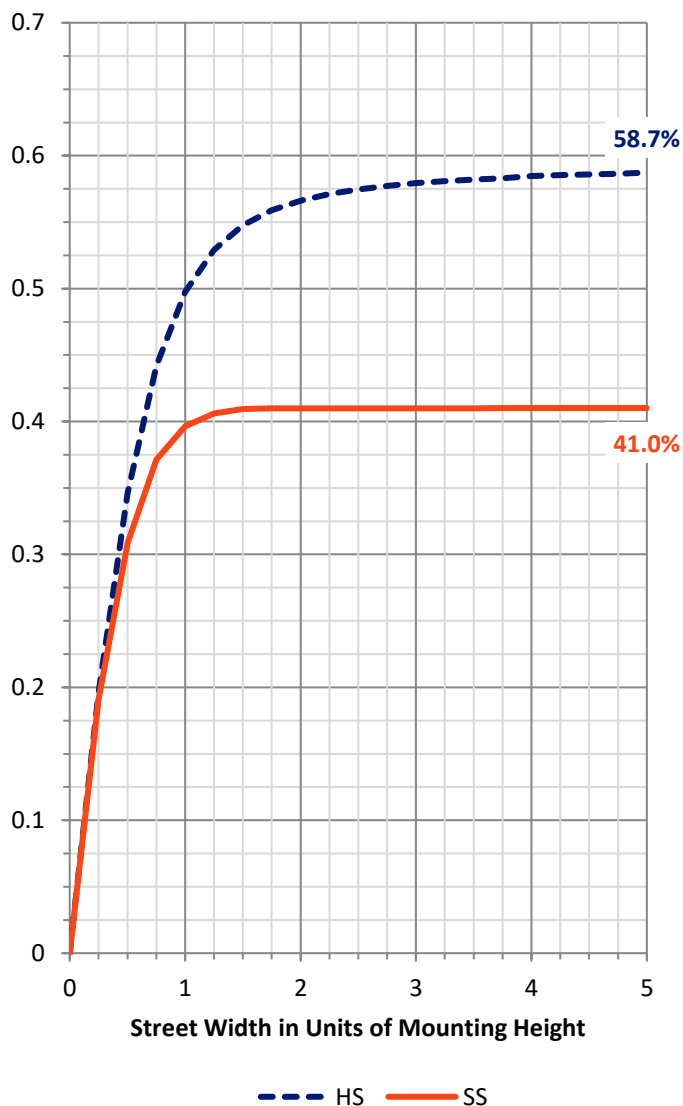
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10282.5	0.0	10282.5
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	7079.2	0.0	7079.2
	% Fixture	40.8	0.0	40.8
Total	Lumens	17361.8	0.0	17361.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1239.1	7.1
10°-20°	3322.7	19.1
20°-30°	4052.3	23.3
30°-40°	3699.7	21.3
40°-50°	2673.7	15.4
50°-60°	1459.8	8.4
60°-70°	603.6	3.5
70°-80°	244.5	1.4
80°-90°	66.5	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°	17361.8	100.0
0°-180°	17361.8	100.0



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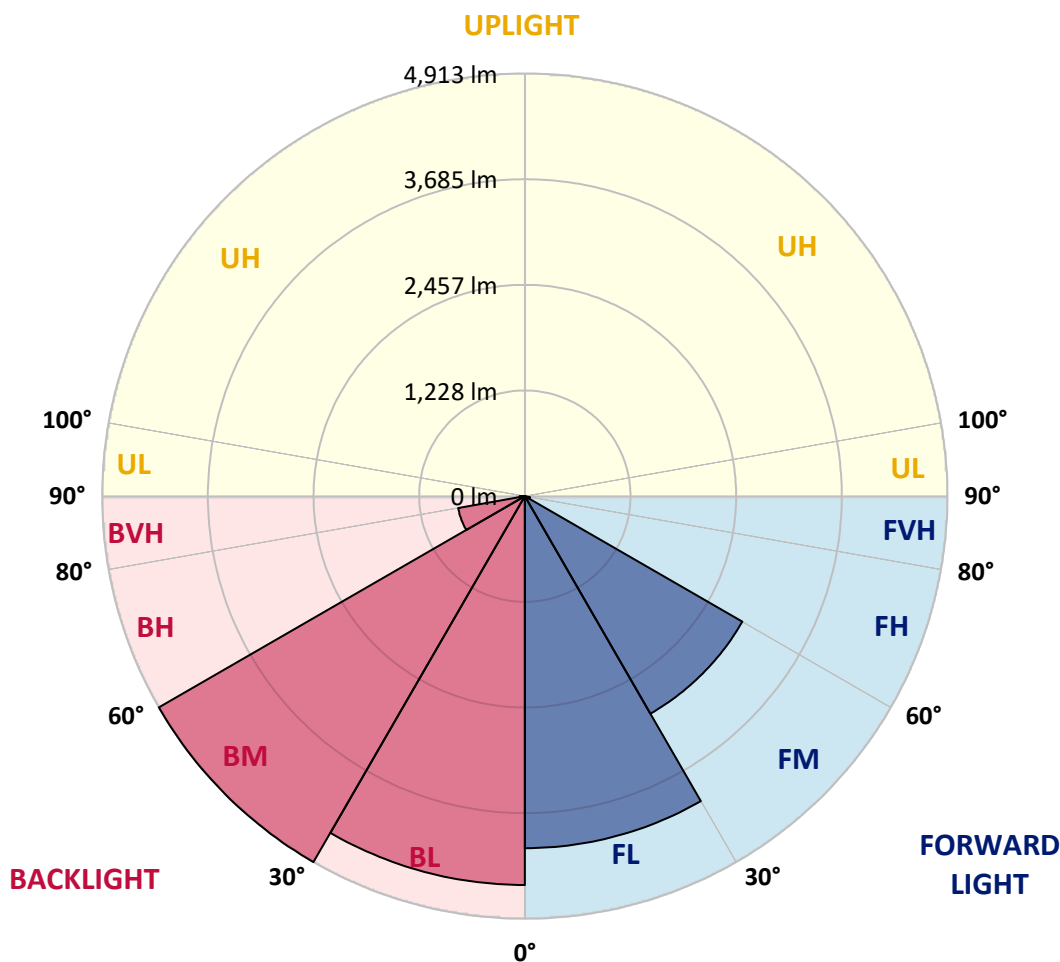
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4092.8	23.6			
FM (30°-60°)	2919.9	16.8			
FH (60°-80°)	61.2	0.4			G0/660
FVH (80°-90°)	5.3	0.0			G0/10
BL (0°-30°)	4521.3	26.0	B4/5000		
BM (30°-60°)	4913.2	28.3	B3/5000		
BH (60°-80°)	786.9	4.5	B2/1000		G2/1000
BVH (80°-90°)	61.2	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°	13212.3	13212.3	13212.3	13212.3	13212.3	13212.3	13212.3	13212.3	13212.3	13212.3
2.5°	13187.8	13204.9	13112.0	13121.8	13138.9	13263.6	13231.8	13202.5	13160.9	13231.8
5°	13170.7	13180.5	13082.7	13048.5	13063.1	13175.6	13072.9	13072.9	13063.1	13050.9
7.5°	13038.7	13043.6	12967.8	12906.7	12945.8	12997.1	12921.3	12958.0	12904.2	12945.8
10°	12840.6	12808.9	12718.4	12701.3	12745.3	12794.2	12742.8	12777.1	12728.2	12760.0
12.5°	12549.7	12500.8	12427.5	12405.4	12481.2	12547.3	12505.7	12486.1	12422.6	12500.8
15°	11427.5	11390.8	11557.1	11848.0	12109.6	12165.8	12121.8	12141.4	12009.4	12031.4
17.5°	9405.5	9337.1	9515.6	10205.0	11187.9	11706.2	11667.1	11540.0	11344.4	11388.4
20°	8547.4	8527.8	8508.3	8672.1	9359.1	10931.2	10985.0	10662.2	10383.5	10322.4
22.5°	8063.3	8056.0	8036.4	8073.1	8254.0	9263.7	9879.9	9581.6	9395.8	9378.7
25°	7620.8	7608.5	7549.9	7596.3	7596.3	7655.0	8444.7	8625.6	8461.8	8442.3
27.5°	7170.9	7148.9	7139.1	7161.1	7048.7	6652.6	6853.1	7735.7	7650.1	7655.0
30°	6684.4	6677.0	6650.1	6696.6	6349.4	5858.0	5730.9	6928.9	6946.0	6941.1
32.5°	5960.7	5992.5	6114.7	6166.1	5593.9	5188.1	4975.4	5994.9	6344.5	6337.2
35°	4329.9	4329.9	4728.4	5469.3	4902.0	4596.4	4481.5	5083.0	5750.4	5774.9
37.5°	3559.8	3572.0	3650.2	3987.6	4229.7	4122.1	4087.9	4278.6	4987.6	5026.7
40°	3202.8	3202.8	3202.8	3063.5	3056.1	3713.8	3694.3	3633.1	4307.9	4393.5
42.5°	2877.7	2885.0	2889.9	2537.8	2342.2	3210.2	3166.2	3073.2	3699.1	3799.4
45°	2542.7	2554.9	2569.6	2122.2	2036.6	2310.4	2679.6	2576.9	3097.7	3227.3
47.5°	1552.5	1572.1	1904.6	1799.5	1809.2	1782.3	2185.7	2168.6	2540.3	2723.6
50°	1048.9	1056.2	1088.0	1141.8	1552.5	1400.9	1547.6	1794.6	1929.0	2207.7
52.5°	880.2	892.4	814.2	740.8	1019.5	1095.3	1080.6	1332.5	1386.3	1731.0
55°	618.6	657.7	621.0	613.7	579.4	850.8	819.0	1024.4	1058.6	1315.4
57.5°	63.6	73.3	127.1	457.2	379.0	481.6	584.3	750.6	784.8	970.6
60°	4.9	4.9	12.2	63.6	276.3	288.5	403.4	462.1	528.1	677.2
62.5°	0.0	2.4	4.9	9.8	44.0	154.0	202.9	242.0	317.8	437.6
65°	0.0	0.0	2.4	7.3	9.8	58.7	78.2	127.1	173.6	271.4
67.5°	0.0	0.0	2.4	4.9	7.3	14.7	26.9	46.5	92.9	154.0
70°	0.0	0.0	2.4	4.9	7.3	12.2	19.6	29.3	41.6	83.1
72.5°	0.0	0.0	2.4	2.4	4.9	12.2	14.7	19.6	29.3	41.6
75°	0.0	0.0	2.4	2.4	7.3	14.7	12.2	14.7	19.6	26.9
77.5°	0.0	0.0	2.4	4.9	7.3	14.7	12.2	14.7	14.7	17.1
80°	0.0	0.0	2.4	4.9	9.8	17.1	14.7	14.7	12.2	12.2
82.5°	0.0	0.0	2.4	7.3	9.8	22.0	22.0	19.6	9.8	7.3
85°	0.0	0.0	4.9	9.8	14.7	24.4	24.4	19.6	7.3	4.9
87.5°	0.0	0.0	4.9	7.3	12.2	17.1	24.4	19.6	7.3	2.4
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°
13212.3	0°	13212.3	13212.3	13212.3	13212.3	13212.3	13212.3	13212.3	13212.3	13212.3
13170.7	2.5°	13236.7	13222.0	13270.9	13290.5	13317.4	13214.7	13151.1	13153.6	13036.2
13021.6	5°	13099.8	13102.2	13165.8	13160.9	13187.8	13131.6	13107.1	13065.6	12962.9
12833.3	7.5°	12926.2	12904.2	12965.3	13011.8	12943.3	12982.4	12926.2	12945.8	12884.6
12667.1	10°	12791.7	12740.4	12796.6	12828.4	12830.9	12791.7	12738.0	12686.6	12664.6
12407.9	12.5°	12493.5	12427.5	12522.8	12566.8	12559.5	12483.7	12422.6	12434.8	12363.9
11953.1	15°	12082.7	12085.2	12153.6	12195.2	12156.1	12139.0	12143.8	12114.5	12053.4
11324.8	17.5°	11454.4	11491.1	11672.0	11772.2	11794.2	11760.0	11742.9	11708.6	11647.5
10322.4	20°	10408.0	10628.0	10950.7	11261.2	11322.4	11312.6	11251.5	11236.8	11202.6
9329.8	22.5°	9488.7	9652.5	10026.6	10510.6	10760.0	10784.5	10711.1	10689.1	10652.5
8442.3	25°	8537.6	8713.6	9051.0	9576.7	10092.6	10197.7	10185.5	10119.5	10080.3
7655.0	27.5°	7735.7	7911.7	8217.3	8691.6	9244.2	9581.6	9613.4	9508.2	9505.8
6953.3	30°	7012.0	7254.0	7486.3	7872.6	8408.0	8914.1	8967.9	8894.6	8901.9
6310.3	32.5°	6444.8	6645.3	6843.3	7102.4	7547.4	8136.6	8346.9	8278.4	8251.6
5774.9	35°	5865.3	6002.2	6205.2	6442.3	6745.5	7329.8	7694.1	7642.8	7615.9
5051.2	37.5°	5205.2	5439.9	5586.6	5853.1	6090.3	6554.8	7068.2	7060.9	7004.7
4435.1	40°	4528.0	4774.9	4997.4	5266.3	5449.7	5818.9	6388.5	6386.1	6393.4
3796.9	42.5°	3914.3	4141.7	4410.6	4704.0	4880.0	5149.0	5760.2	5794.4	5836.0
3271.3	45°	3359.3	3564.7	3814.1	4171.0	4383.7	4537.7	5080.5	5237.0	5234.5
2801.9	47.5°	2860.5	3053.7	3263.9	3611.1	3882.5	4021.9	4471.7	4694.2	4679.5
2298.2	50°	2400.9	2572.0	2792.1	3043.9	3408.2	3530.4	3865.4	4158.8	4136.8
1831.2	52.5°	1931.5	2168.6	2354.4	2584.3	2968.1	3087.9	3347.1	3633.1	3616.0
1374.0	55°	1506.1	1735.9	1960.8	2158.9	2481.6	2660.1	2845.9	3139.3	3134.4
1075.8	57.5°	1139.3	1391.2	1603.9	1792.1	2048.8	2268.9	2418.0	2684.5	2718.7
735.9	60°	843.5	1036.6	1266.5	1476.7	1679.6	1907.0	2007.3	2268.9	2283.5
503.7	62.5°	574.6	787.3	1012.2	1202.9	1354.5	1589.2	1679.6	1894.8	1921.7
322.7	65°	398.5	535.4	792.1	929.1	1114.9	1315.4	1405.8	1577.0	1630.8
185.8	67.5°	264.0	381.4	618.6	743.3	926.6	1063.5	1178.4	1317.8	1376.5
117.4	70°	144.2	281.2	442.5	586.8	745.7	877.7	990.2	1102.7	1154.0
53.8	72.5°	97.8	188.3	308.1	464.5	601.4	731.0	831.3	914.4	916.8
31.8	75°	48.9	127.1	234.7	359.4	469.4	596.6	687.0	735.9	677.2
19.6	77.5°	29.3	92.9	190.7	288.5	381.4	481.6	533.0	559.9	464.5
14.7	80°	17.1	66.0	149.1	229.8	264.0	354.5	403.4	410.7	310.5
9.8	82.5°	12.2	48.9	117.4	168.7	161.4	249.4	303.2	293.4	198.0
7.3	85°	7.3	34.2	73.3	105.1	97.8	163.8	176.0	180.9	114.9
4.9	87.5°	4.9	19.6	39.1	56.2	46.5	70.9	70.9	85.6	56.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13212.3
12884.6
12938.4
12782.0
12566.8
12302.8
11992.3
11620.6
11124.3
10642.7
10038.8
9500.9
8865.2
8254.0
7579.2
7051.1
6393.4
5814.0
5239.4
4684.4
4156.3
3652.7
3146.6
2704.1
2305.5
1926.6
1618.5
1369.1
1134.4
894.8
633.2
447.4
290.9
183.4
105.1
48.9
0.0

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