

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: P638093

Luminaire Tested: **IFLD-L-SA7C-727-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638093
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-727-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28516.7 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

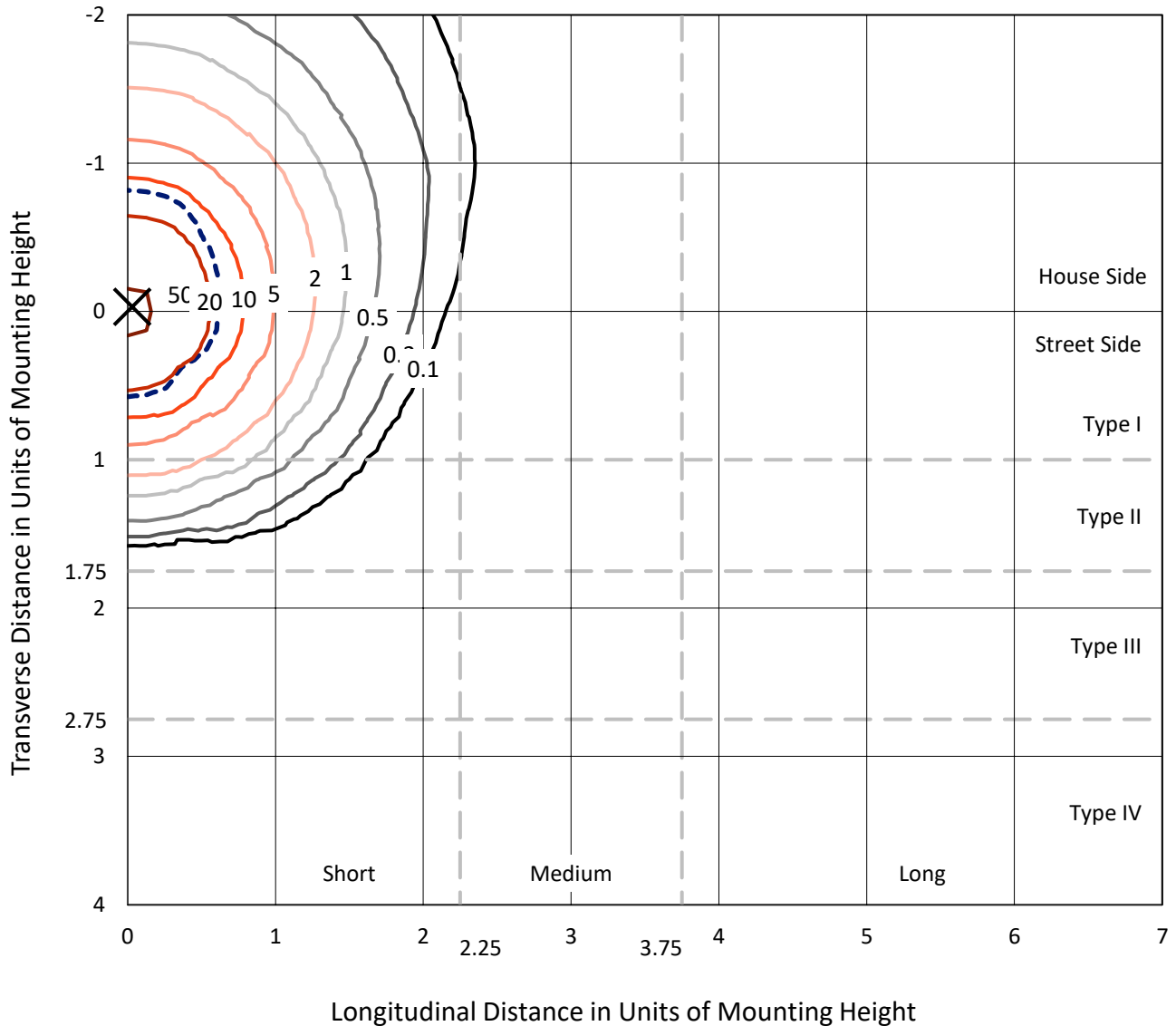
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

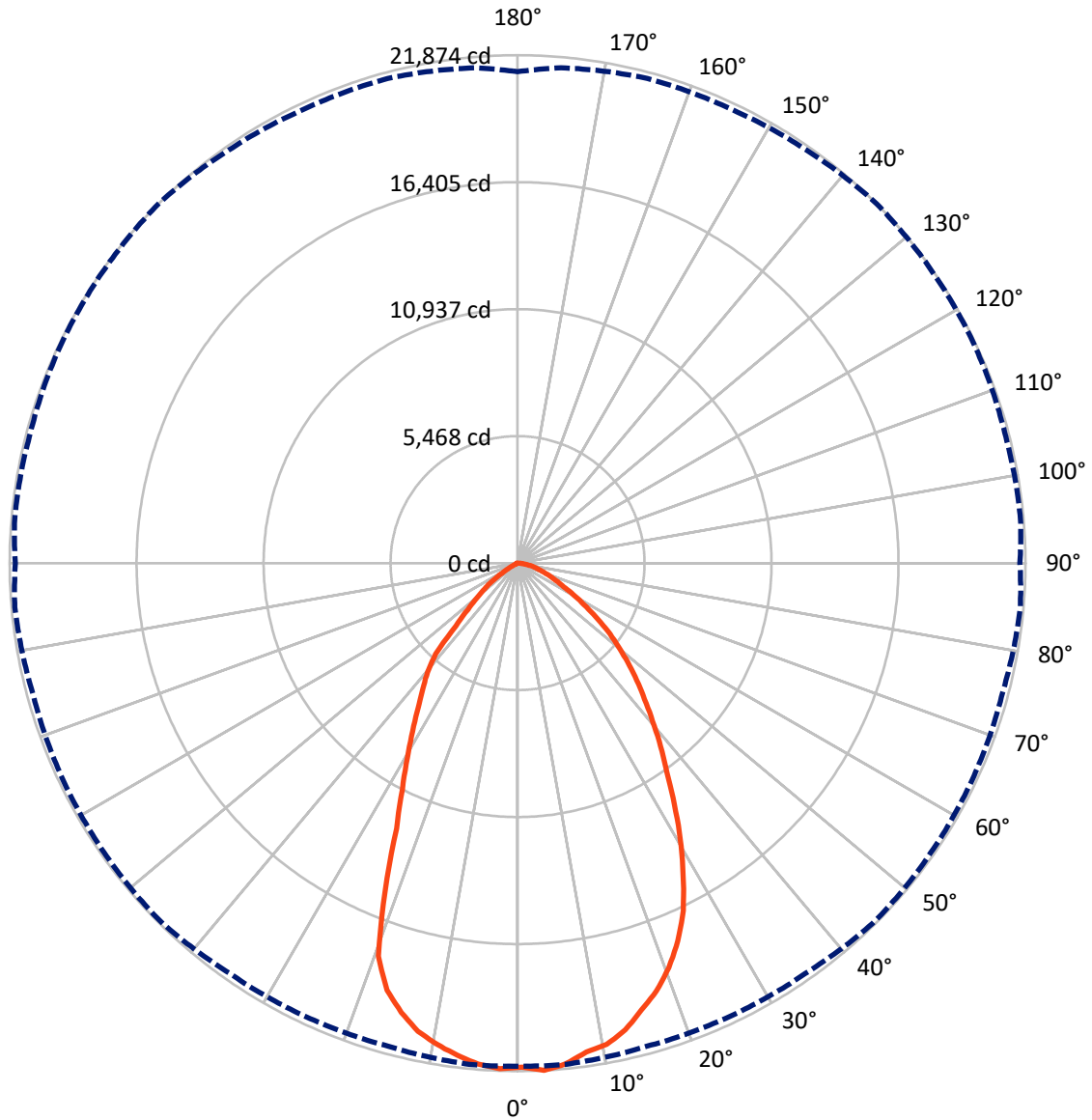
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 54.3 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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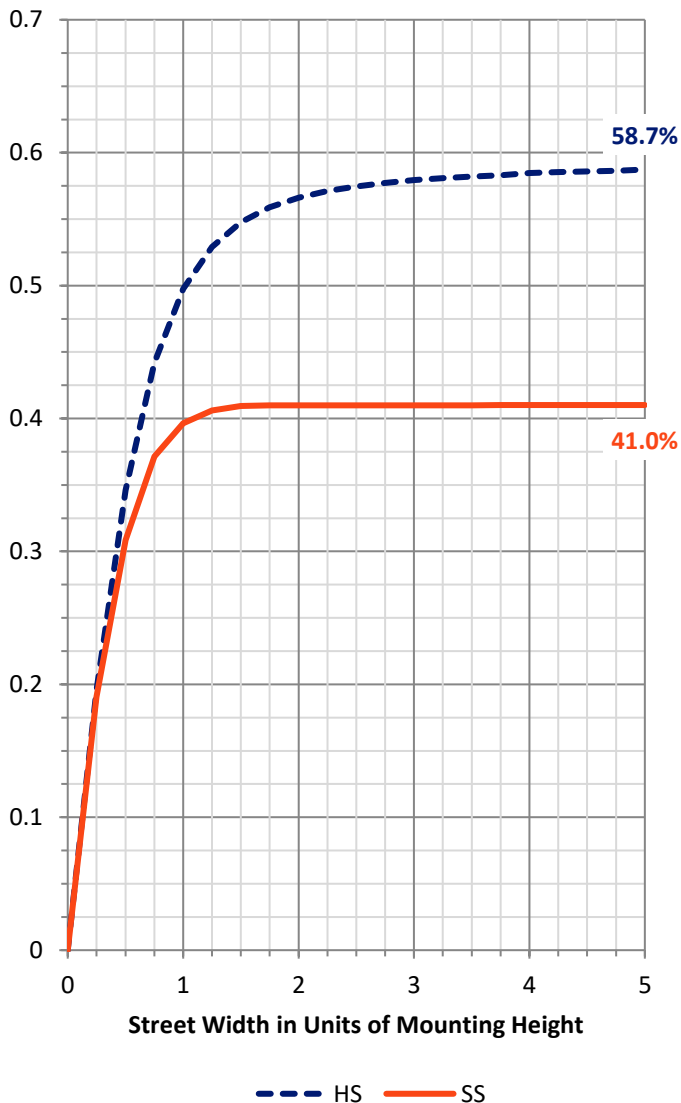
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16889.0	0.0	16889.0
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	11627.6	0.0	11627.6
	% Fixture	40.8	0.0	40.8
Total	Lumens	28516.7	0.0	28516.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2035.2	7.1
10°-20°	5457.6	19.1
20°-30°	6655.8	23.3
30°-40°	6076.7	21.3
40°-50°	4391.5	15.4
50°-60°	2397.8	8.4
60°-70°	991.4	3.5
70°-80°	401.5	1.4
80°-90°	109.2	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°	28516.7	100.0
0°-180°	28516.7	100.0



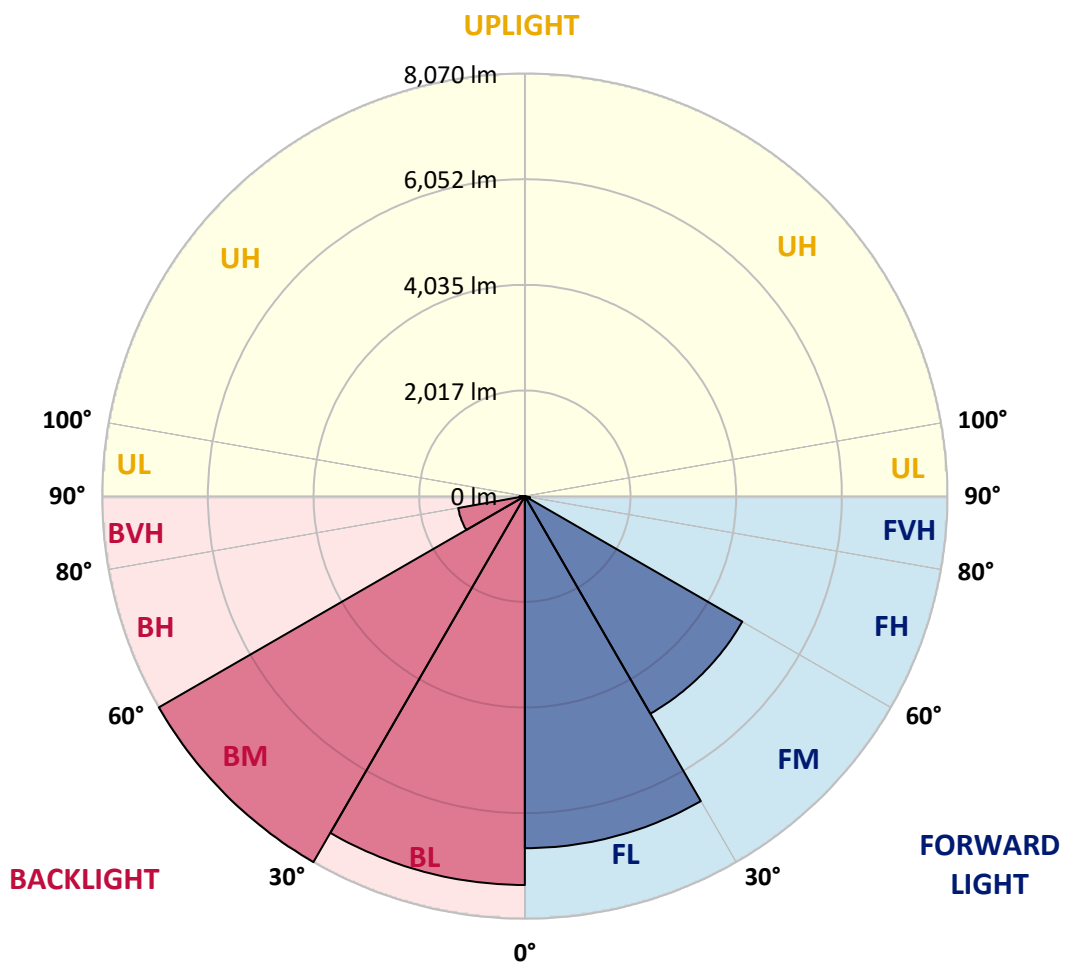
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6722.4	23.6			
FM (30°-60°)	4796.0	16.8			
FH (60°-80°)	100.5	0.4			G0/660
FVH (80°-90°)	8.7	0.0			G0/10
BL (0°-30°)	7426.1	26.0	B5		
BM (30°-60°)	8070.0	28.3	B4/8500		
BH (60°-80°)	1292.4	4.5	B3/2500		G3/2500
BVH (80°-90°)	100.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	21701.1	21701.1	21701.1	21701.1	21701.1	21701.1	21701.1	21701.1	21701.1	21701.1
2.5°	21660.9	21689.0	21536.4	21552.5	21580.6	21785.4	21733.2	21685.0	21616.8	21733.2
5°	21632.8	21648.9	21488.3	21432.0	21456.1	21640.9	21472.2	21472.2	21456.1	21436.0
7.5°	21416.0	21424.0	21299.5	21199.1	21263.4	21347.7	21223.2	21283.5	21195.1	21263.4
10°	21090.7	21038.5	20889.9	20861.8	20934.1	21014.4	20930.1	20986.3	20906.0	20958.2
12.5°	20612.8	20532.5	20412.0	20375.9	20500.4	20608.8	20540.5	20508.4	20404.0	20532.5
15°	18769.6	18709.4	18982.4	19460.3	19890.0	19982.3	19910.1	19942.2	19725.3	19761.5
17.5°	15448.6	15336.1	15629.3	16761.7	18376.1	19227.4	19163.1	18954.3	18633.1	18705.3
20°	14039.0	14006.9	13974.8	14243.8	15372.3	17954.4	18042.7	17512.7	17054.9	16954.5
22.5°	13243.9	13231.9	13199.8	13260.0	13557.2	15215.7	16227.6	15737.7	15432.5	15404.4
25°	12517.1	12497.0	12400.6	12476.9	12476.9	12573.3	13870.4	14167.5	13898.5	13866.4
27.5°	11778.2	11742.0	11726.0	11762.1	11577.4	10926.8	11256.1	12705.8	12565.3	12573.3
30°	10979.0	10967.0	10922.8	10999.1	10428.9	9621.7	9412.9	11380.6	11408.7	11400.7
32.5°	9790.4	9842.6	10043.4	10127.7	9188.0	8521.4	8172.0	9846.6	10420.9	10408.8
35°	7111.9	7111.9	7766.5	8983.2	8051.6	7549.6	7360.9	8348.7	9445.0	9485.2
37.5°	5846.9	5867.0	5995.5	6549.7	6947.2	6770.5	6714.3	7027.6	8192.1	8256.4
40°	5260.6	5260.6	5260.6	5031.7	5019.7	6099.9	6067.8	5967.4	7075.7	7216.3
42.5°	4726.5	4738.6	4746.6	4168.3	3847.1	5272.7	5200.4	5047.8	6075.8	6240.5
45°	4176.4	4196.5	4220.5	3485.7	3345.1	3794.9	4401.3	4232.6	5087.9	5300.8
47.5°	2550.0	2582.1	3128.3	2955.6	2971.7	2927.5	3590.1	3562.0	4172.4	4473.5
50°	1722.8	1734.8	1787.0	1875.4	2550.0	2301.0	2542.0	2947.6	3168.4	3626.2
52.5°	1445.7	1465.7	1337.2	1216.8	1674.6	1799.1	1775.0	2188.6	2276.9	2843.1
55°	1016.0	1080.2	1020.0	1008.0	951.7	1397.5	1345.3	1682.6	1738.8	2160.5
57.5°	104.4	120.5	208.8	750.9	622.4	791.1	959.8	1232.8	1289.1	1594.3
60°	8.0	8.0	20.1	104.4	453.8	473.9	662.6	759.0	867.4	1112.4
62.5°	0.0	4.0	8.0	16.1	72.3	253.0	333.3	397.6	522.0	718.8
65°	0.0	0.0	4.0	12.0	16.1	96.4	128.5	208.8	285.1	445.7
67.5°	0.0	0.0	4.0	8.0	12.0	24.1	44.2	76.3	152.6	253.0
70°	0.0	0.0	4.0	8.0	12.0	20.1	32.1	48.2	68.3	136.5
72.5°	0.0	0.0	4.0	4.0	8.0	20.1	24.1	32.1	48.2	68.3
75°	0.0	0.0	4.0	4.0	12.0	24.1	20.1	24.1	32.1	44.2
77.5°	0.0	0.0	4.0	8.0	12.0	24.1	20.1	24.1	24.1	28.1
80°	0.0	0.0	4.0	8.0	16.1	28.1	24.1	24.1	20.1	20.1
82.5°	0.0	0.0	4.0	12.0	16.1	36.1	36.1	32.1	16.1	12.0
85°	0.0	0.0	8.0	16.1	24.1	40.2	40.2	32.1	12.0	8.0
87.5°	0.0	0.0	8.0	12.0	20.1	28.1	40.2	32.1	12.0	4.0
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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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
21701.1	0°	21701.1	21701.1	21701.1	21701.1	21701.1	21701.1	21701.1	21701.1	21701.1
21632.8	2.5°	21741.2	21717.2	21797.5	21829.6	21873.8	21705.1	21600.7	21604.7	21412.0
21387.9	5°	21516.4	21520.4	21624.8	21616.8	21660.9	21568.6	21528.4	21460.1	21291.5
21078.6	7.5°	21231.2	21195.1	21295.5	21371.8	21259.4	21323.6	21231.2	21263.4	21163.0
20805.6	10°	21010.4	20926.0	21018.4	21070.6	21074.6	21010.4	20922.0	20837.7	20801.6
20379.9	12.5°	20520.5	20412.0	20568.6	20640.9	20628.9	20504.4	20404.0	20424.1	20307.6
19633.0	15°	19845.8	19849.8	19962.3	20030.5	19966.3	19938.2	19946.2	19898.0	19797.6
18600.9	17.5°	18813.8	18874.0	19171.2	19335.8	19372.0	19315.7	19287.6	19231.4	19131.0
16954.5	20°	17095.0	17456.4	17986.5	18496.5	18596.9	18580.9	18480.5	18456.4	18400.1
15324.1	22.5°	15585.1	15854.2	16468.6	17263.7	17673.3	17713.5	17593.0	17556.8	17496.6
13866.4	25°	14023.0	14312.1	14866.3	15729.7	16577.0	16749.7	16729.6	16621.2	16556.9
12573.3	27.5°	12705.8	12995.0	13496.9	14276.0	15183.5	15737.7	15789.9	15617.2	15613.2
11420.8	30°	11517.2	11914.7	12296.2	12930.7	13810.1	14641.4	14729.8	14609.3	14621.3
10364.6	32.5°	10585.5	10914.8	11240.1	11665.7	12396.6	13364.4	13709.8	13597.3	13553.1
9485.2	35°	9633.8	9858.7	10192.0	10581.5	11079.4	12039.2	12637.6	12553.2	12509.0
8296.5	37.5°	8549.5	8935.0	9176.0	9613.7	10003.2	10766.2	11609.5	11597.5	11505.1
7284.6	40°	7437.2	7842.8	8208.2	8649.9	8951.1	9557.5	10493.1	10489.1	10501.2
6236.5	42.5°	6429.2	6802.7	7244.4	7726.3	8015.4	8457.2	9461.1	9517.3	9585.6
5373.1	45°	5517.6	5855.0	6264.6	6850.9	7200.2	7453.2	8344.7	8601.7	8597.7
4602.0	47.5°	4698.4	5015.7	5361.0	5931.3	6377.0	6605.9	7344.8	7710.2	7686.1
3774.8	50°	3943.5	4224.6	4586.0	4999.6	5597.9	5798.7	6348.9	6830.8	6794.6
3007.8	52.5°	3172.4	3562.0	3867.2	4244.6	4875.1	5071.9	5497.6	5967.4	5939.3
2256.8	55°	2473.7	2851.2	3220.6	3545.9	4076.0	4369.1	4674.3	5156.2	5148.2
1766.9	57.5°	1871.3	2285.0	2634.3	2943.5	3365.2	3726.6	3971.6	4409.3	4465.5
1208.7	60°	1385.4	1702.7	2080.2	2425.5	2758.8	3132.3	3296.9	3726.6	3750.7
827.2	62.5°	943.7	1293.1	1662.5	1975.7	2224.7	2610.2	2758.8	3112.2	3156.4
530.1	65°	654.6	879.4	1301.1	1526.0	1831.2	2160.5	2309.1	2590.2	2678.5
305.2	67.5°	433.7	626.5	1016.0	1220.8	1522.0	1746.8	1935.6	2164.5	2260.9
192.8	70°	236.9	461.8	726.8	963.8	1224.8	1441.7	1626.4	1811.1	1895.4
88.3	72.5°	160.6	309.2	506.0	763.0	987.9	1200.7	1365.4	1501.9	1505.9
52.2	75°	80.3	208.8	385.5	590.3	771.0	979.8	1128.4	1208.7	1112.4
32.1	77.5°	48.2	152.6	313.2	473.9	626.5	791.1	875.4	919.6	763.0
24.1	80°	28.1	108.4	245.0	377.5	433.7	582.3	662.6	674.6	510.0
16.1	82.5°	20.1	80.3	192.8	277.1	265.0	409.6	498.0	481.9	325.3
12.0	85°	12.0	56.2	120.5	172.7	160.6	269.1	289.1	297.2	188.7
8.0	87.5°	8.0	32.1	64.3	92.4	76.3	116.5	116.5	140.6	92.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
21701.1
21163.0
21251.3
20994.3
20640.9
20207.2
19697.2
19086.8
18271.6
17480.5
16488.7
15605.2
14561.1
13557.2
12448.8
11581.4
10501.2
9549.4
8605.7
7694.2
6826.8
5999.5
5168.3
4441.4
3786.8
3164.4
2658.4
2248.8
1863.3
1469.8
1040.1
734.9
477.9
301.2
172.7
80.3
0.0

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