

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: P638273

Luminaire Tested: **IFLD-L-SA8D-827-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638273
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-827-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31521.3 lumens
Efficiency: N/A
Efficacy: 64.6 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): 488.3
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

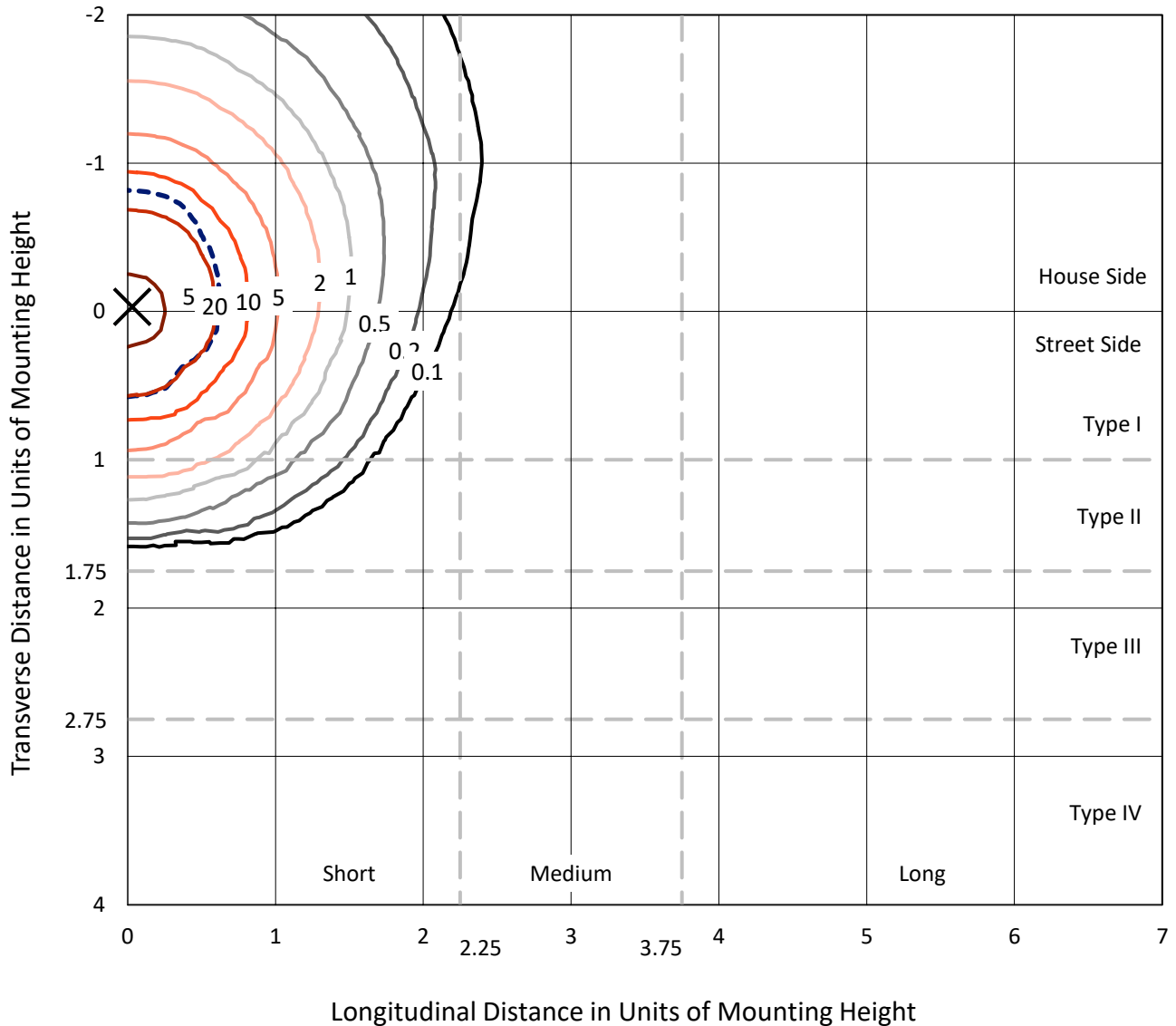




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Iso-Footcandle Lines of Horizontal Illumination

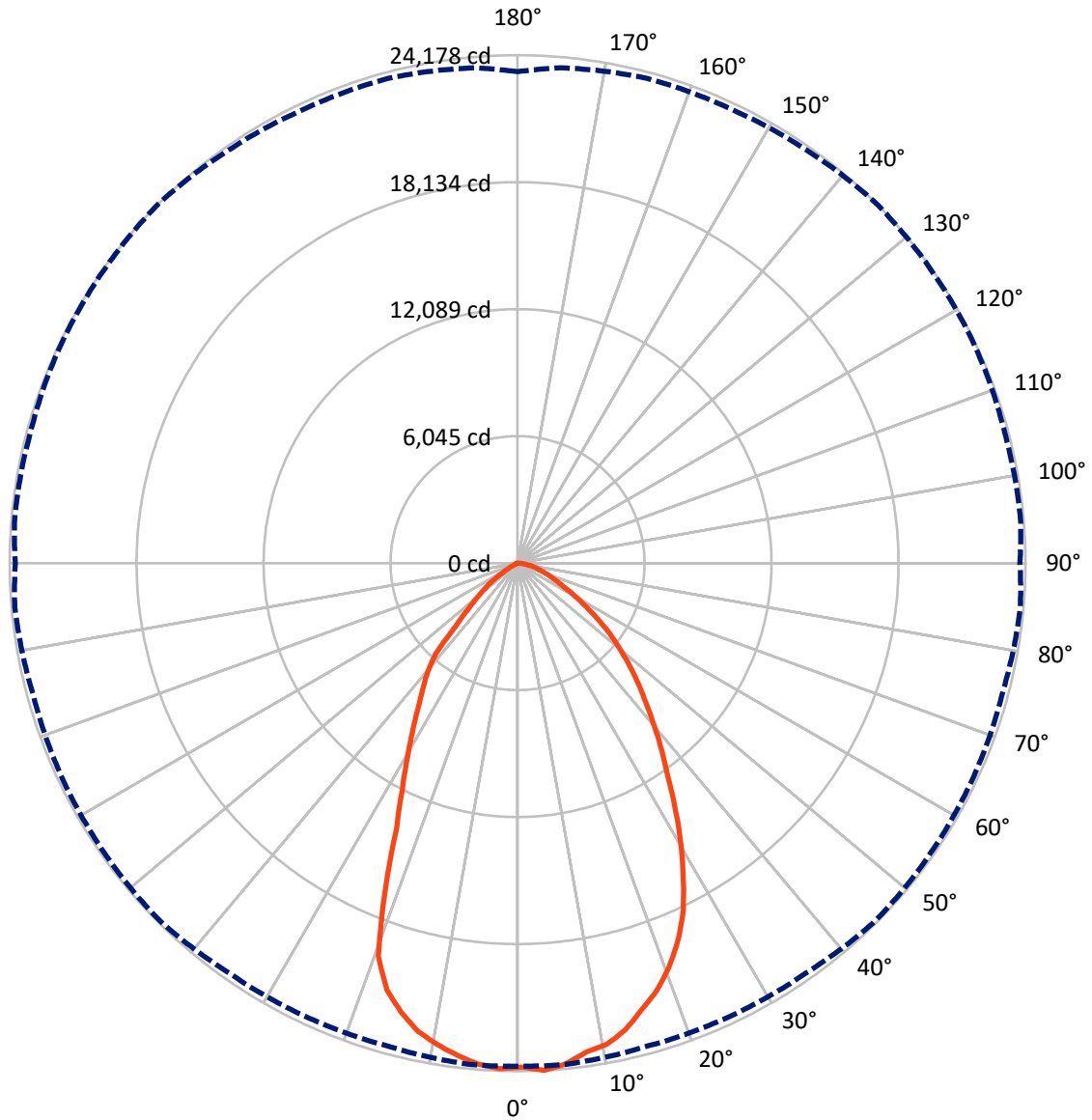
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 60 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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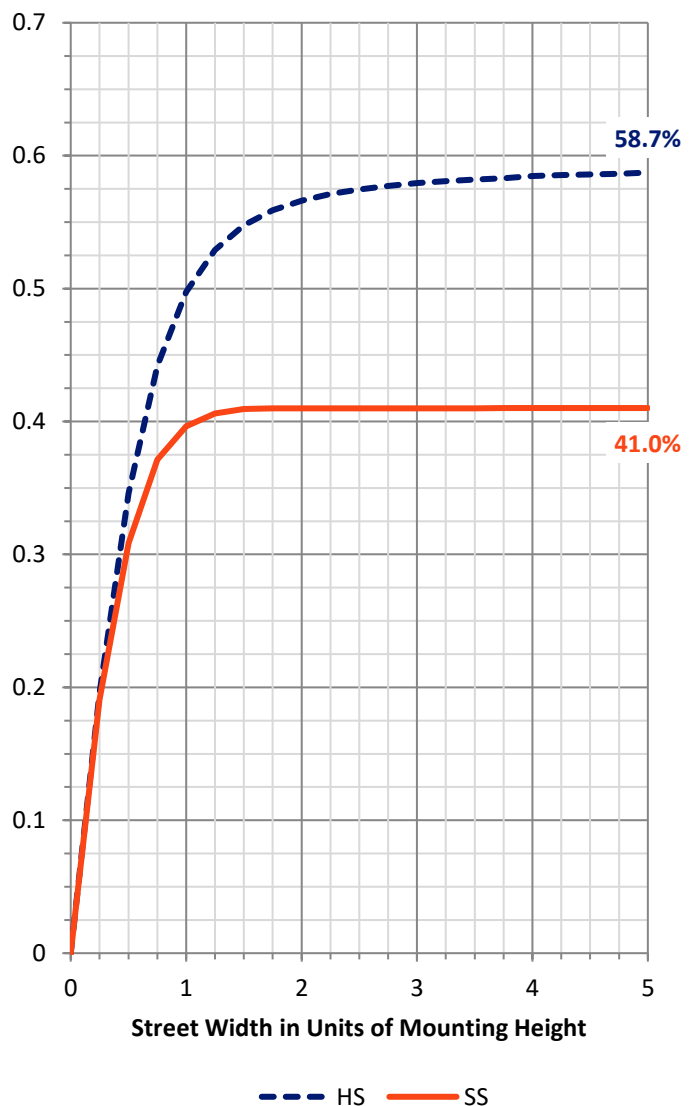
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18668.5	0.0	18668.5
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	12852.8	0.0	12852.8
	% Fixture	40.8	0.0	40.8
Total	Lumens	31521.3	0.0	31521.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2249.6	7.1
10°-20°	6032.6	19.1
20°-30°	7357.1	23.3
30°-40°	6716.9	21.3
40°-50°	4854.2	15.4
50°-60°	2650.4	8.4
60°-70°	1095.9	3.5
70°-80°	443.8	1.4
80°-90°	120.7	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°	31521.3	100.0
0°-180°	31521.3	100.0



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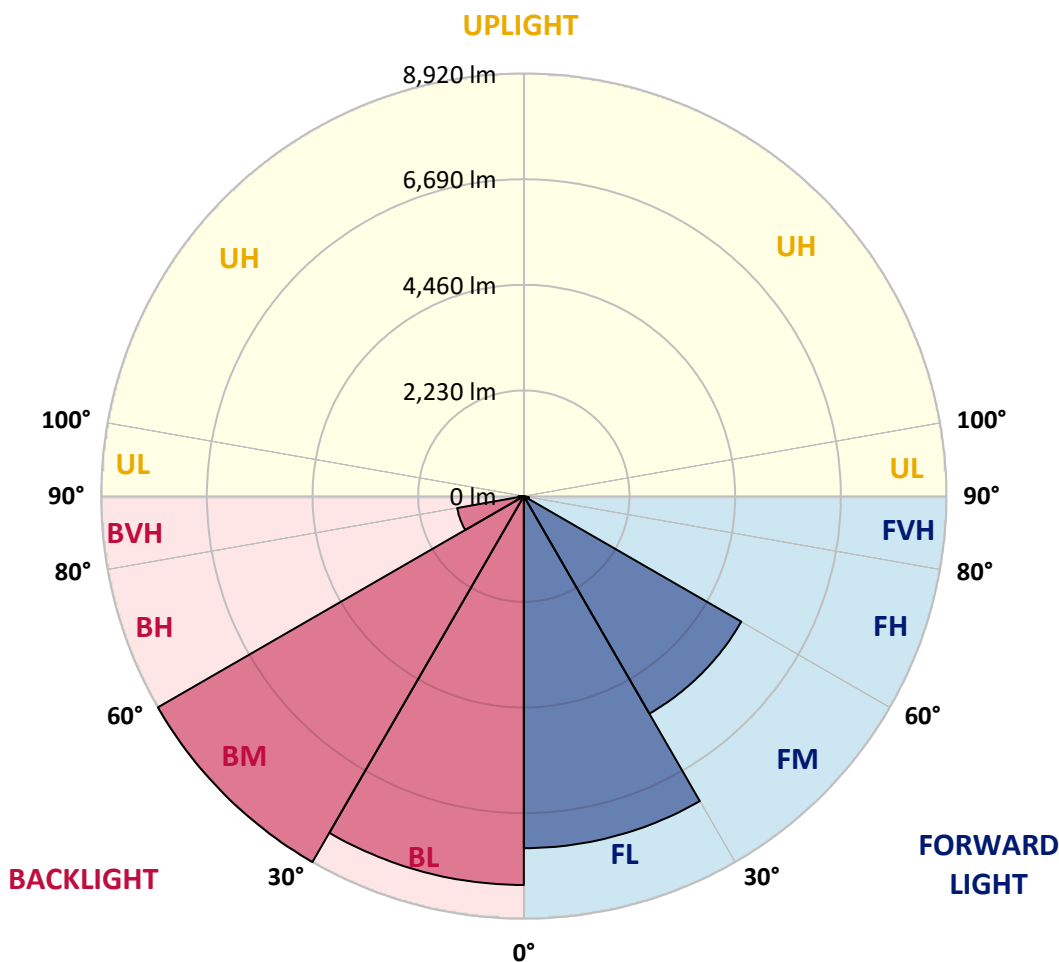
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7430.7	23.6			
FM (30°-60°)	5301.3	16.8			
FH (60°-80°)	111.1	0.4			G0/660
FVH (80°-90°)	9.7	0.0			G0/10
BL (0°-30°)	8208.6	26.0	B5		
BM (30°-60°)	8920.2	28.3	B5		
BH (60°-80°)	1428.6	4.5	B3/2500		G3/2500
BVH (80°-90°)	111.1	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°	23987.6	23987.6	23987.6	23987.6	23987.6	23987.6	23987.6	23987.6	23987.6	23987.6
2.5°	23943.2	23974.3	23805.6	23823.3	23854.4	24080.8	24023.1	23969.8	23894.4	24023.1
5°	23912.1	23929.9	23752.3	23690.2	23716.8	23921.0	23734.6	23734.6	23716.8	23694.6
7.5°	23672.4	23681.3	23543.7	23432.7	23503.7	23597.0	23459.3	23525.9	23428.3	23503.7
10°	23312.9	23255.2	23090.9	23059.9	23139.8	23228.5	23135.3	23197.5	23108.7	23166.4
12.5°	22784.6	22695.9	22562.7	22522.7	22660.4	22780.2	22704.7	22669.2	22553.8	22695.9
15°	20747.2	20680.6	20982.5	21510.7	21985.6	22087.7	22007.8	22043.4	21803.7	21843.6
17.5°	17076.3	16952.0	17276.0	18527.8	20312.2	21253.2	21182.2	20951.4	20596.3	20676.2
20°	15518.2	15482.7	15447.2	15744.6	16991.9	19846.1	19943.8	19357.8	18851.8	18740.8
22.5°	14639.3	14626.0	14590.5	14657.1	14985.6	16818.8	17937.4	17395.9	17058.5	17027.4
25°	13835.9	13813.7	13707.2	13791.5	13791.5	13898.1	15331.8	15660.3	15362.9	15327.4
27.5°	13019.2	12979.2	12961.5	13001.4	12797.2	12078.1	12442.1	14044.5	13889.2	13898.1
30°	12135.8	12122.5	12073.7	12158.0	11527.7	10635.5	10404.7	12579.7	12610.8	12601.9
32.5°	10821.9	10879.6	11101.6	11194.8	10156.1	9419.2	9033.1	10884.1	11518.8	11505.5
35°	7861.2	7861.2	8584.7	9929.7	8899.9	8345.0	8136.4	9228.4	10440.2	10484.6
37.5°	6463.0	6485.2	6627.2	7239.8	7679.2	7483.9	7421.8	7768.0	9055.3	9126.3
40°	5814.9	5814.9	5814.9	5561.9	5548.6	6742.6	6707.1	6596.1	7821.3	7976.6
42.5°	5224.5	5237.8	5246.7	4607.5	4252.4	5828.2	5748.3	5579.6	6716.0	6898.0
45°	4616.4	4638.6	4665.2	3852.9	3697.6	4194.7	4865.0	4678.6	5624.0	5859.3
47.5°	2818.7	2854.2	3457.9	3267.0	3284.8	3235.9	3968.3	3937.3	4612.0	4944.9
50°	1904.3	1917.6	1975.3	2072.9	2818.7	2543.5	2809.8	3258.1	3502.3	4008.3
52.5°	1598.0	1620.2	1478.1	1345.0	1851.0	1988.6	1962.0	2419.2	2516.8	3142.7
55°	1123.0	1194.1	1127.5	1114.2	1052.0	1544.7	1487.0	1859.9	1922.0	2388.1
57.5°	115.4	133.2	230.8	830.1	688.0	874.5	1060.9	1362.7	1424.9	1762.2
60°	8.9	8.9	22.2	115.4	501.6	523.8	732.4	838.9	958.8	1229.6
62.5°	0.0	4.4	8.9	17.8	79.9	279.6	368.4	439.4	577.1	794.6
65°	0.0	0.0	4.4	13.3	17.8	106.5	142.0	230.8	315.2	492.7
67.5°	0.0	0.0	4.4	8.9	13.3	26.6	48.8	84.3	168.7	279.6
70°	0.0	0.0	4.4	8.9	13.3	22.2	35.5	53.3	75.5	150.9
72.5°	0.0	0.0	4.4	4.4	8.9	22.2	26.6	35.5	53.3	75.5
75°	0.0	0.0	4.4	4.4	13.3	26.6	22.2	26.6	35.5	48.8
77.5°	0.0	0.0	4.4	8.9	13.3	26.6	22.2	26.6	26.6	31.1
80°	0.0	0.0	4.4	8.9	17.8	31.1	26.6	26.6	22.2	22.2
82.5°	0.0	0.0	4.4	13.3	17.8	39.9	39.9	35.5	17.8	13.3
85°	0.0	0.0	8.9	17.8	26.6	44.4	44.4	35.5	13.3	8.9
87.5°	0.0	0.0	8.9	13.3	22.2	31.1	44.4	35.5	13.3	4.4
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°
23987.6	0°	23987.6	23987.6	23987.6	23987.6	23987.6	23987.6	23987.6	23987.6	23987.6
23912.1	2.5°	24032.0	24005.3	24094.1	24129.6	24178.4	23992.0	23876.6	23881.0	23668.0
23641.3	5°	23783.4	23787.8	23903.2	23894.4	23943.2	23841.1	23796.7	23721.2	23534.8
23299.5	7.5°	23468.2	23428.3	23539.2	23623.6	23499.3	23570.3	23468.2	23503.7	23392.8
22997.7	10°	23224.1	23130.9	23233.0	23290.7	23295.1	23224.1	23126.4	23033.2	22993.3
22527.2	12.5°	22682.5	22562.7	22735.8	22815.7	22802.4	22664.8	22553.8	22576.0	22447.3
21701.6	15°	21936.8	21941.3	22065.5	22141.0	22070.0	22038.9	22047.8	21994.5	21883.6
20560.8	17.5°	20796.0	20862.6	21191.1	21373.1	21413.0	21350.9	21319.8	21257.7	21146.7
18740.8	20°	18896.2	19295.7	19881.6	20445.4	20556.3	20538.6	20427.6	20401.0	20338.8
16938.7	22.5°	17227.2	17524.6	18203.7	19082.6	19535.4	19579.8	19446.6	19406.7	19340.1
15327.4	25°	15500.5	15820.1	16432.6	17387.0	18323.6	18514.5	18492.3	18372.4	18301.4
13898.1	27.5°	14044.5	14364.1	14919.0	15780.1	16783.3	17395.9	17453.6	17262.7	17258.3
12624.1	30°	12730.6	13170.1	13591.8	14293.1	15265.2	16184.1	16281.7	16148.6	16161.9
11456.7	32.5°	11700.8	12064.8	12424.4	12894.9	13702.7	14772.5	15154.3	15030.0	14981.1
10484.6	35°	10648.8	10897.4	11265.8	11696.4	12246.8	13307.7	13969.1	13875.9	13827.0
9170.7	37.5°	9450.3	9876.5	10142.8	10626.6	11057.2	11900.6	12832.7	12819.4	12717.3
8052.1	40°	8220.8	8669.1	9073.0	9561.3	9894.2	10564.5	11598.7	11594.3	11607.6
6893.5	42.5°	7106.6	7519.4	8007.7	8540.4	8860.0	9348.2	10457.9	10520.1	10595.5
5939.2	45°	6099.0	6471.9	6924.6	7572.7	7958.9	8238.5	9223.9	9508.0	9503.6
5086.9	47.5°	5193.5	5544.1	5925.9	6556.2	7048.9	7301.9	8118.7	8522.6	8496.0
4172.5	50°	4359.0	4669.7	5069.2	5526.4	6187.8	6409.7	7017.8	7550.5	7510.5
3324.7	52.5°	3506.7	3937.3	4274.6	4691.9	5388.8	5606.3	6076.8	6596.1	6565.1
2494.6	55°	2734.3	3151.6	3560.0	3919.5	4505.4	4829.5	5166.8	5699.5	5690.6
1953.1	57.5°	2068.5	2525.7	2911.9	3253.7	3719.8	4119.3	4390.0	4873.9	4936.0
1336.1	60°	1531.4	1882.1	2299.3	2681.1	3049.5	3462.3	3644.3	4119.3	4145.9
914.4	62.5°	1043.1	1429.3	1837.7	2183.9	2459.1	2885.3	3049.5	3440.1	3488.9
585.9	65°	723.5	972.1	1438.2	1686.8	2024.1	2388.1	2552.3	2863.1	2960.7
337.4	67.5°	479.4	692.5	1123.0	1349.4	1682.3	1930.9	2139.5	2392.5	2499.1
213.1	70°	261.9	510.5	803.4	1065.3	1353.9	1593.5	1797.7	2001.9	2095.1
97.7	72.5°	177.6	341.8	559.3	843.4	1092.0	1327.2	1509.2	1660.1	1664.6
57.7	75°	88.8	230.8	426.1	652.5	852.3	1083.1	1247.3	1336.1	1229.6
35.5	77.5°	53.3	168.7	346.2	523.8	692.5	874.5	967.7	1016.5	843.4
26.6	80°	31.1	119.8	270.8	417.3	479.4	643.6	732.4	745.7	563.7
17.8	82.5°	22.2	88.8	213.1	306.3	293.0	452.8	550.4	532.7	359.5
13.3	85°	13.3	62.1	133.2	190.9	177.6	297.4	319.6	328.5	208.6
8.9	87.5°	8.9	35.5	71.0	102.1	84.3	128.7	128.7	155.4	102.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
23987.6
23392.8
23490.4
23206.3
22815.7
22336.3
21772.6
21097.9
20196.8
19322.3
18225.9
17249.4
16095.3
14985.6
13760.4
12801.7
11607.6
10555.6
9512.5
8504.8
7546.1
6631.6
5712.8
4909.4
4185.8
3497.8
2938.5
2485.8
2059.6
1624.6
1149.7
812.3
528.2
332.9
190.9
88.8
0.0

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