

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: P638272

Luminaire Tested: **IFLD-L-SA8C-827-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638272
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-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: 28646.8 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

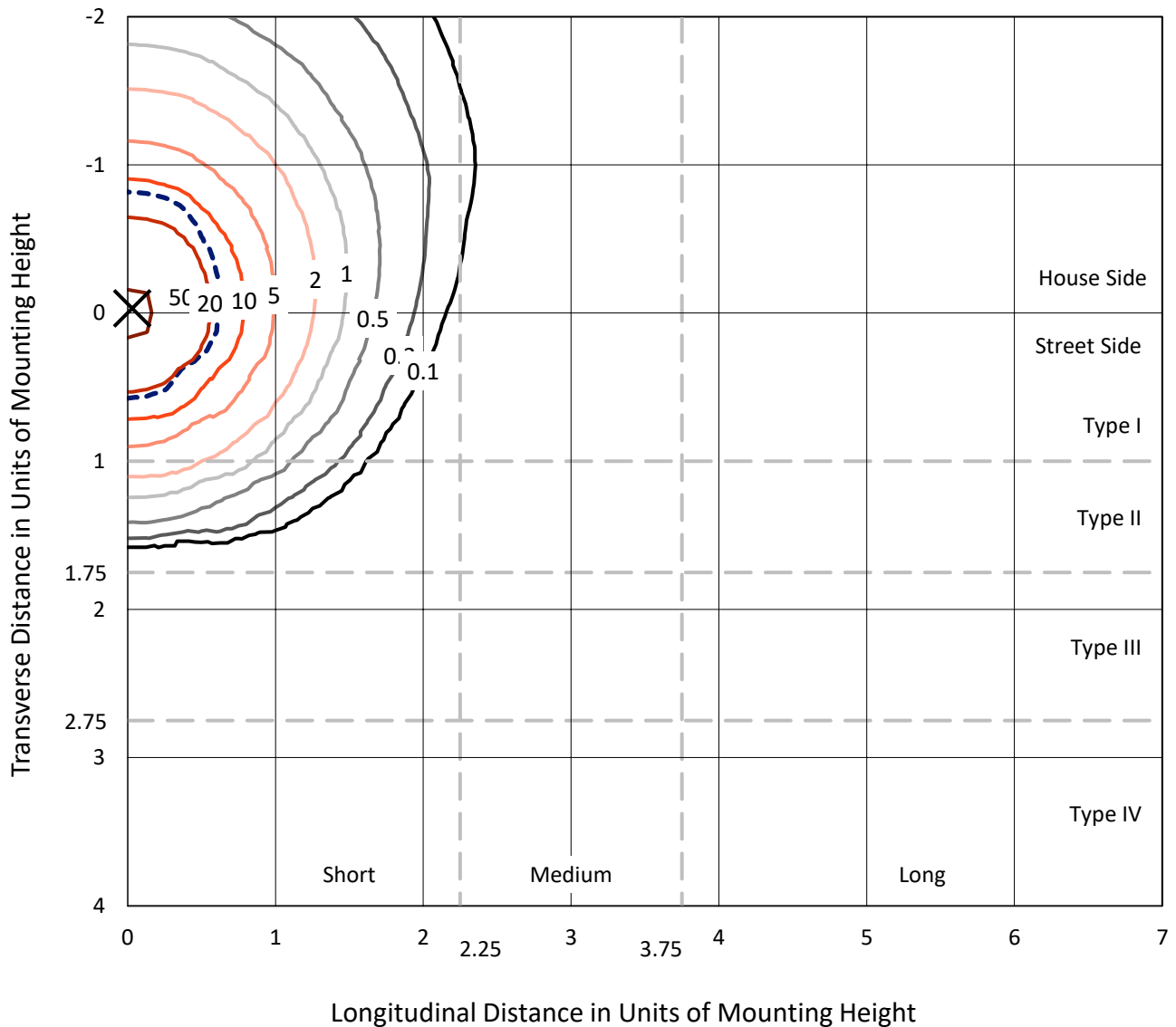
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

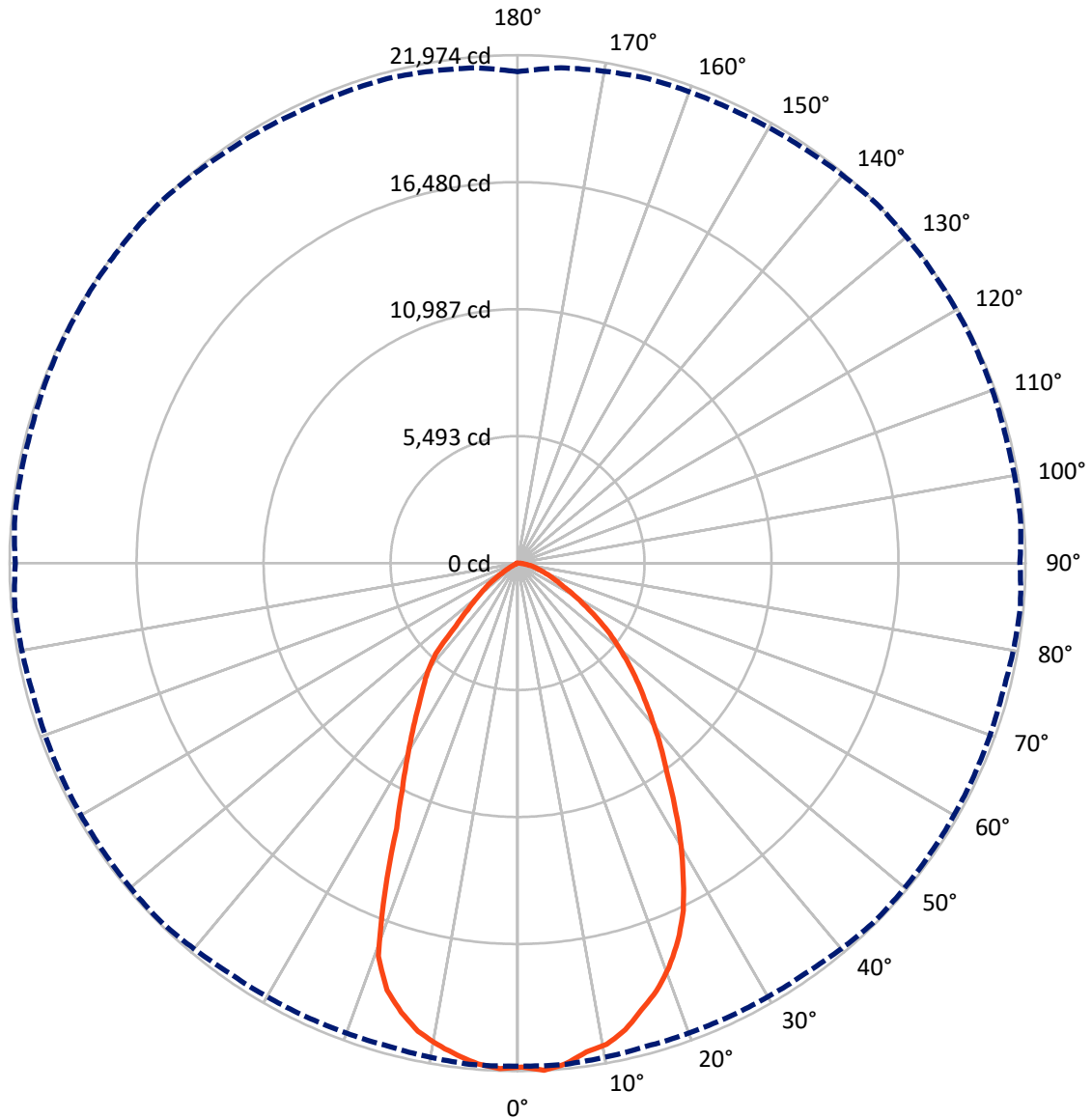
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 54.5 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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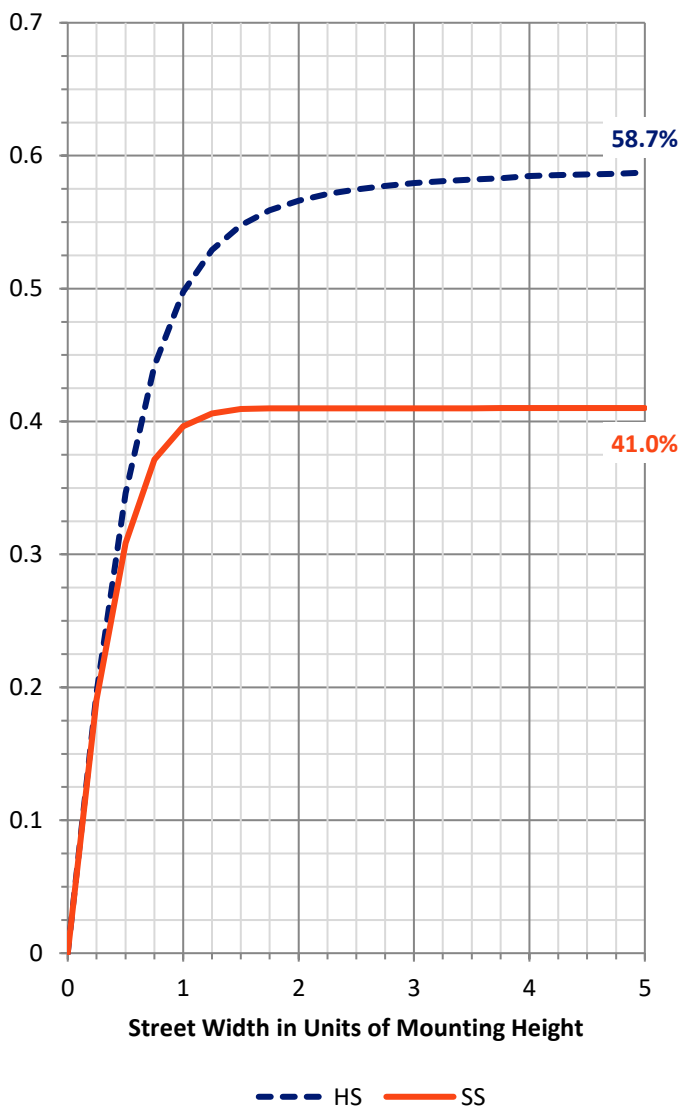
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16966.1	0.0	16966.1
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	11680.7	0.0	11680.7
	% Fixture	40.8	0.0	40.8
Total	Lumens	28646.8	0.0	28646.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2044.5	7.1
10°-20°	5482.5	19.1
20°-30°	6686.2	23.3
30°-40°	6104.4	21.3
40°-50°	4411.5	15.4
50°-60°	2408.7	8.4
60°-70°	995.9	3.5
70°-80°	403.4	1.4
80°-90°	109.7	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°	28646.8	100.0
0°-180°	28646.8	100.0



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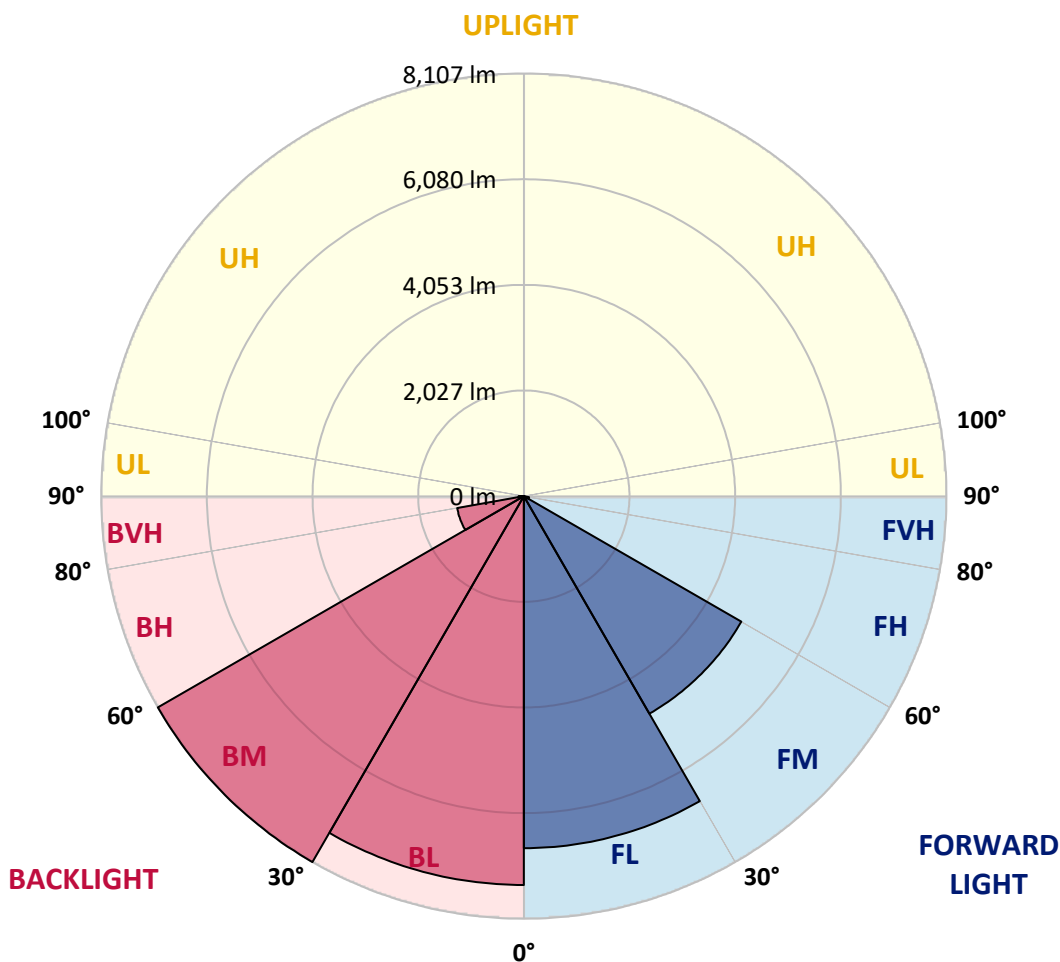
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6753.1	23.6			
FM (30°-60°)	4817.9	16.8			
FH (60°-80°)	100.9	0.4			G0/660
FVH (80°-90°)	8.8	0.0			G0/10
BL (0°-30°)	7460.0	26.0	B5		
BM (30°-60°)	8106.8	28.3	B4/8500		
BH (60°-80°)	1298.3	4.5	B3/2500		G3/2500
BVH (80°-90°)	100.9	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°	21800.1	21800.1	21800.1	21800.1	21800.1	21800.1	21800.1	21800.1	21800.1	21800.1
2.5°	21759.8	21788.0	21634.7	21650.9	21679.1	21884.8	21832.4	21784.0	21715.4	21832.4
5°	21731.5	21747.7	21586.3	21529.8	21554.0	21739.6	21570.2	21570.2	21554.0	21533.9
7.5°	21513.7	21521.8	21396.7	21295.9	21360.4	21445.1	21320.1	21380.6	21291.8	21360.4
10°	21186.9	21134.5	20985.2	20957.0	21029.6	21110.3	21025.6	21082.1	21001.4	21053.8
12.5°	20706.9	20626.2	20505.2	20468.9	20593.9	20702.9	20634.3	20602.0	20497.1	20626.2
15°	18855.3	18794.7	19069.1	19549.1	19980.8	20073.5	20000.9	20033.2	19815.4	19851.7
17.5°	15519.1	15406.1	15700.6	16838.2	18459.9	19315.1	19250.6	19040.8	18718.1	18790.7
20°	14103.1	14070.8	14038.6	14308.9	15442.4	18036.3	18125.1	17592.6	17132.7	17031.9
22.5°	13304.4	13292.3	13260.0	13320.5	13619.0	15285.1	16301.7	15809.5	15502.9	15474.7
25°	12574.2	12554.0	12457.2	12533.9	12533.9	12630.7	13933.7	14232.2	13961.9	13929.7
27.5°	11831.9	11795.6	11779.5	11815.8	11630.2	10976.7	11307.5	12763.8	12622.6	12630.7
30°	11029.2	11017.1	10972.7	11049.3	10476.5	9665.6	9455.9	11432.6	11460.8	11452.7
32.5°	9835.1	9887.5	10089.2	10173.9	9230.0	8560.3	8209.3	9891.5	10468.4	10456.3
35°	7144.3	7144.3	7801.9	9024.2	8088.3	7584.1	7394.5	8386.8	9488.1	9528.5
37.5°	5873.6	5893.8	6022.9	6579.6	6978.9	6801.4	6745.0	7059.6	8229.5	8294.1
40°	5284.6	5284.6	5284.6	5054.7	5042.6	6127.8	6095.5	5994.6	7108.0	7249.2
42.5°	4748.1	4760.2	4768.3	4187.4	3864.6	5296.7	5224.1	5070.8	6103.6	6268.9
45°	4195.4	4215.6	4239.8	3501.6	3360.4	3812.2	4421.3	4251.9	5111.2	5325.0
47.5°	2561.6	2593.9	3142.5	2969.1	2985.2	2940.8	3606.5	3578.2	4191.4	4494.0
50°	1730.6	1742.7	1795.2	1883.9	2561.6	2311.5	2553.6	2961.0	3182.9	3642.8
52.5°	1452.3	1472.4	1343.3	1222.3	1682.2	1807.3	1783.1	2198.6	2287.3	2856.1
55°	1020.6	1085.2	1024.7	1012.6	956.1	1403.9	1351.4	1690.3	1746.8	2170.3
57.5°	104.9	121.0	209.8	754.4	625.3	794.7	964.1	1238.5	1294.9	1601.5
60°	8.1	8.1	20.2	104.9	455.9	476.0	665.6	762.4	871.4	1117.4
62.5°	0.0	4.0	8.1	16.1	72.6	254.1	334.8	399.4	524.4	722.1
65°	0.0	0.0	4.0	12.1	16.1	96.8	129.1	209.8	286.4	447.8
67.5°	0.0	0.0	4.0	8.1	12.1	24.2	44.4	76.6	153.3	254.1
70°	0.0	0.0	4.0	8.1	12.1	20.2	32.3	48.4	68.6	137.2
72.5°	0.0	0.0	4.0	4.0	8.1	20.2	24.2	32.3	48.4	68.6
75°	0.0	0.0	4.0	4.0	12.1	24.2	20.2	24.2	32.3	44.4
77.5°	0.0	0.0	4.0	8.1	12.1	24.2	20.2	24.2	24.2	28.2
80°	0.0	0.0	4.0	8.1	16.1	28.2	24.2	24.2	20.2	20.2
82.5°	0.0	0.0	4.0	12.1	16.1	36.3	36.3	32.3	16.1	12.1
85°	0.0	0.0	8.1	16.1	24.2	40.3	40.3	32.3	12.1	8.1
87.5°	0.0	0.0	8.1	12.1	20.2	28.2	40.3	32.3	12.1	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°
21800.1	0°	21800.1	21800.1	21800.1	21800.1	21800.1	21800.1	21800.1	21800.1	21800.1
21731.5	2.5°	21840.5	21816.3	21896.9	21929.2	21973.6	21804.2	21699.3	21703.3	21509.7
21485.5	5°	21614.6	21618.6	21723.5	21715.4	21759.8	21667.0	21626.7	21558.1	21388.6
21174.8	7.5°	21328.1	21291.8	21392.7	21469.3	21356.4	21420.9	21328.1	21360.4	21259.6
20900.5	10°	21106.3	21021.5	21114.3	21166.8	21170.8	21106.3	21017.5	20932.8	20896.5
20472.9	12.5°	20614.1	20505.2	20662.5	20735.1	20723.0	20598.0	20497.1	20517.3	20400.3
19722.6	15°	19936.4	19940.4	20053.4	20122.0	20057.4	20029.2	20037.2	19988.8	19888.0
18685.8	17.5°	18899.6	18960.1	19258.7	19424.1	19460.4	19403.9	19375.6	19319.2	19218.3
17031.9	20°	17173.0	17536.1	18068.6	18580.9	18681.8	18665.7	18564.8	18540.6	18484.1
15394.0	22.5°	15656.2	15926.5	16543.7	17342.5	17754.0	17794.3	17673.3	17637.0	17576.5
13929.7	25°	14087.0	14377.4	14934.1	15801.5	16652.6	16826.1	16805.9	16697.0	16632.5
12630.7	27.5°	12763.8	13054.3	13558.5	14341.1	15252.8	15809.5	15862.0	15688.5	15684.5
11472.9	30°	11569.7	11969.1	12352.3	12989.7	13873.2	14708.2	14797.0	14676.0	14688.1
10411.9	32.5°	10633.8	10964.6	11291.4	11719.0	12453.2	13425.4	13772.3	13659.4	13615.0
9528.5	35°	9677.7	9903.6	10238.5	10629.8	11130.0	12094.1	12695.2	12610.5	12566.1
8334.4	37.5°	8588.5	8975.8	9217.9	9657.6	10048.9	10815.3	11662.5	11650.4	11557.6
7317.8	40°	7471.1	7878.5	8245.6	8689.4	8991.9	9601.1	10541.0	10537.0	10549.1
6264.9	42.5°	6458.5	6833.7	7277.5	7761.6	8052.0	8495.8	9504.3	9560.8	9629.3
5397.6	45°	5542.8	5881.7	6293.2	6882.1	7233.1	7487.2	8382.8	8641.0	8636.9
4623.0	47.5°	4719.9	5038.6	5385.5	5958.3	6406.1	6636.0	7378.3	7745.4	7721.2
3792.0	50°	3961.5	4243.8	4606.9	5022.4	5623.5	5825.2	6377.9	6862.0	6825.6
3021.5	52.5°	3186.9	3578.2	3884.8	4264.0	4897.4	5095.0	5522.6	5994.6	5966.4
2267.1	55°	2485.0	2864.2	3235.3	3562.1	4094.6	4389.1	4695.7	5179.7	5171.7
1775.0	57.5°	1879.9	2295.4	2646.4	2957.0	3380.6	3743.6	3989.7	4429.4	4485.9
1214.3	60°	1391.8	1710.4	2089.6	2436.6	2771.4	3146.6	3312.0	3743.6	3767.8
831.0	62.5°	948.0	1299.0	1670.1	1984.8	2234.9	2622.1	2771.4	3126.4	3170.8
532.5	65°	657.6	883.5	1307.0	1532.9	1839.5	2170.3	2319.6	2602.0	2690.7
306.6	67.5°	435.7	629.3	1020.6	1226.4	1528.9	1754.8	1944.4	2174.4	2271.2
193.6	70°	238.0	463.9	730.2	968.2	1230.4	1448.2	1633.8	1819.4	1904.1
88.7	72.5°	161.4	310.6	508.3	766.5	992.4	1206.2	1371.6	1508.7	1512.8
52.4	75°	80.7	209.8	387.3	593.0	774.5	984.3	1133.6	1214.3	1117.4
32.3	77.5°	48.4	153.3	314.7	476.0	629.3	794.7	879.4	923.8	766.5
24.2	80°	28.2	108.9	246.1	379.2	435.7	584.9	665.6	677.7	512.3
16.1	82.5°	20.2	80.7	193.6	278.4	266.2	411.5	500.2	484.1	326.8
12.1	85°	12.1	56.5	121.0	173.5	161.4	270.3	290.5	298.5	189.6
8.1	87.5°	8.1	32.3	64.5	92.8	76.6	117.0	117.0	141.2	92.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
21800.1
21259.6
21348.3
21090.1
20735.1
20299.4
19787.1
19173.9
18355.0
17560.3
16563.9
15676.4
14627.5
13619.0
12505.6
11634.3
10549.1
9593.0
8645.0
7729.3
6857.9
6026.9
5191.9
4461.7
3804.1
3178.8
2670.6
2259.1
1871.8
1476.5
1044.8
738.2
480.1
302.6
173.5
80.7
0.0

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