

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: P636757

Luminaire Tested: **IFLD-L-SA7A-930-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636757
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-930-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15408.5 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

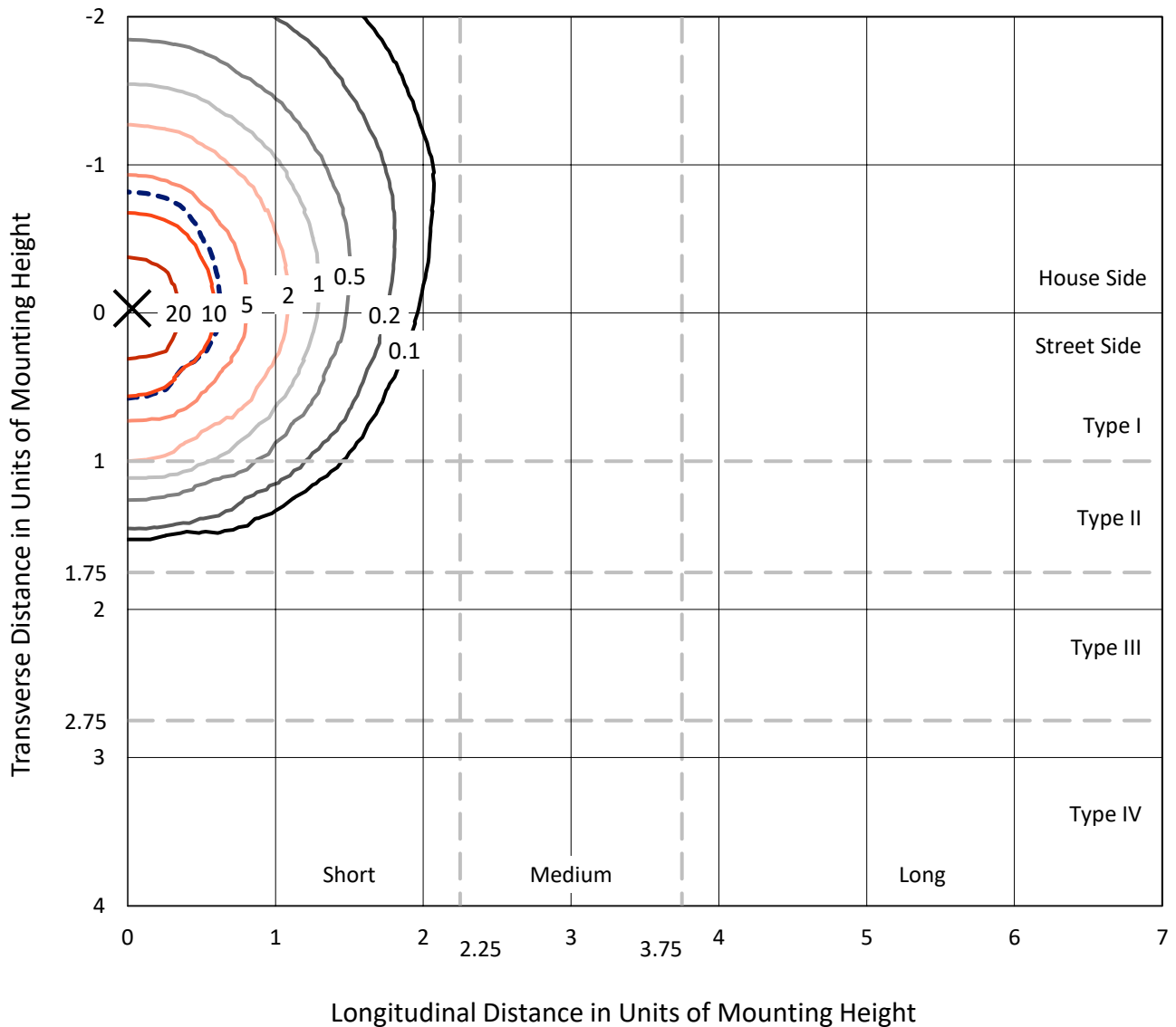
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

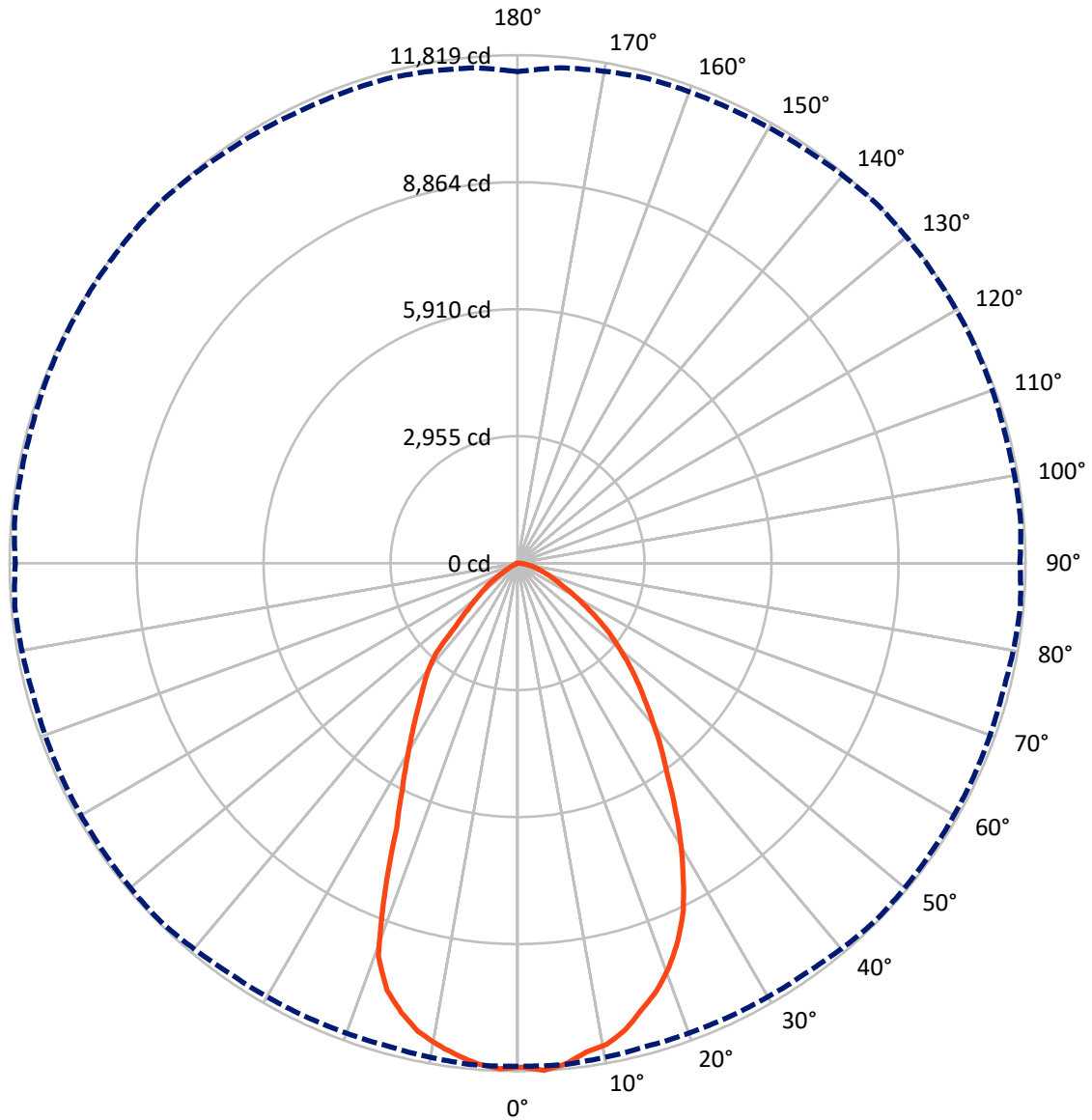
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 29.3 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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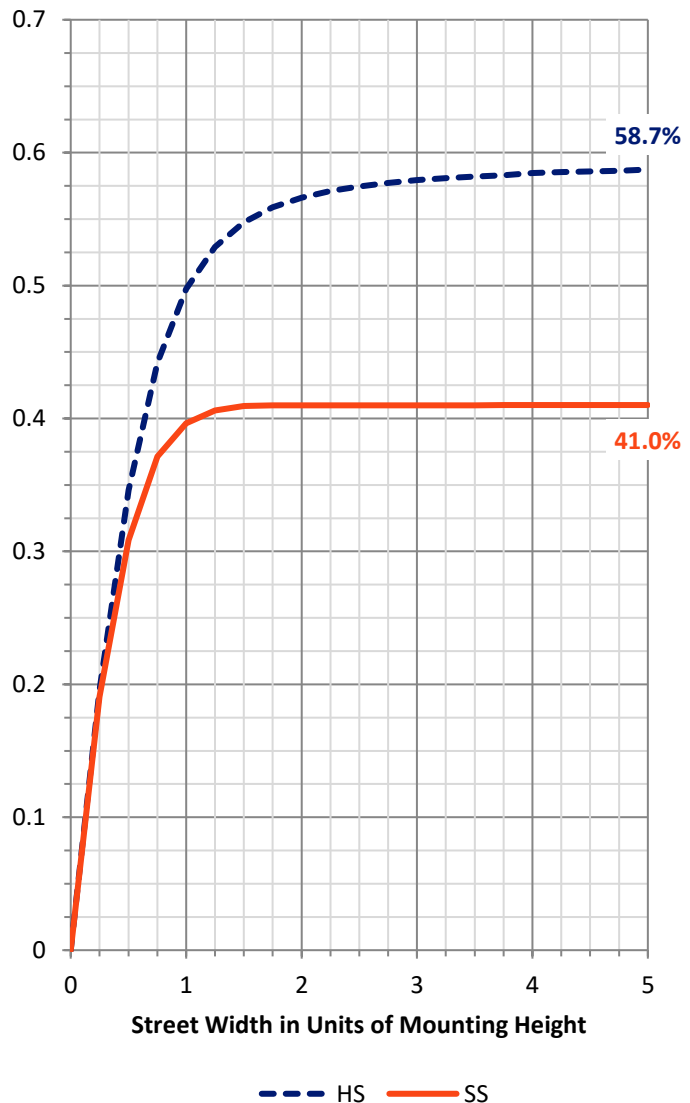
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9125.7	0.0	9125.7
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	6282.8	0.0	6282.8
	% Fixture	40.8	0.0	40.8
Total	Lumens	15408.5	0.0	15408.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1099.7	7.1
10°-20°	2948.9	19.1
20°-30°	3596.4	23.3
30°-40°	3283.4	21.3
40°-50°	2372.9	15.4
50°-60°	1295.6	8.4
60°-70°	535.7	3.5
70°-80°	216.9	1.4
80°-90°	59.0	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°	15408.5	100.0
0°-180°	15408.5	100.0



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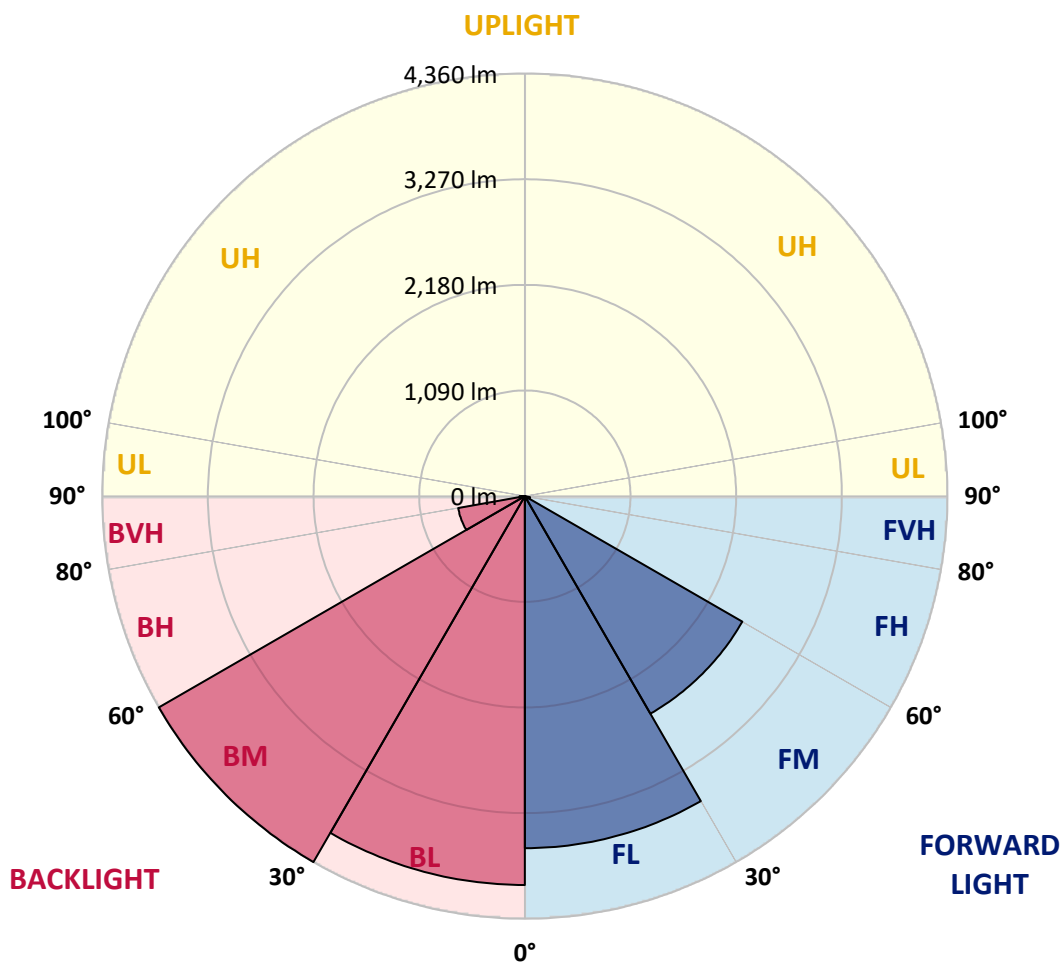
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3632.4	23.6			
FM (30°-60°)	2591.4	16.8			
FH (60°-80°)	54.3	0.4			G0/660
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	4012.6	26.0	B4/5000		
BM (30°-60°)	4360.5	28.3	B3/5000		
BH (60°-80°)	698.3	4.5	B2/1000		G2/1000
BVH (80°-90°)	54.3	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°	11725.9	11725.9	11725.9	11725.9	11725.9	11725.9	11725.9	11725.9	11725.9	11725.9
2.5°	11704.2	11719.4	11636.9	11645.6	11660.8	11771.4	11743.2	11717.2	11680.3	11743.2
5°	11689.0	11697.7	11610.9	11580.5	11593.5	11693.3	11602.2	11602.2	11593.5	11582.7
7.5°	11571.8	11576.1	11508.9	11454.6	11489.4	11534.9	11467.7	11500.2	11452.5	11489.4
10°	11396.0	11367.8	11287.6	11272.4	11311.4	11354.8	11309.3	11339.6	11296.2	11324.4
12.5°	11137.8	11094.4	11029.3	11009.8	11077.1	11135.7	11098.8	11081.4	11025.0	11094.4
15°	10141.9	10109.3	10256.9	10515.1	10747.3	10797.2	10758.1	10775.5	10658.3	10677.8
17.5°	8347.4	8286.7	8445.1	9056.9	9929.2	10389.2	10354.5	10241.7	10068.1	10107.2
20°	7585.8	7568.4	7551.1	7696.5	8306.2	9701.4	9749.1	9462.7	9215.3	9161.1
22.5°	7156.2	7149.7	7132.3	7164.8	7325.4	8221.6	8768.4	8503.6	8338.7	8323.5
25°	6763.4	6752.6	6700.5	6741.7	6741.7	6793.8	7494.7	7655.2	7509.8	7492.5
27.5°	6364.2	6344.6	6336.0	6355.5	6255.7	5904.2	6082.1	6865.4	6789.5	6793.8
30°	5932.4	5925.9	5902.0	5943.2	5635.1	5199.0	5086.1	6149.4	6164.5	6160.2
32.5°	5290.1	5318.3	5426.8	5472.4	4964.6	4604.4	4415.6	5320.5	5630.8	5624.2
35°	3842.8	3842.8	4196.5	4854.0	4350.5	4079.3	3977.3	4511.1	5103.5	5125.2
37.5°	3159.3	3170.1	3239.6	3539.0	3753.8	3658.4	3628.0	3797.2	4426.5	4461.2
40°	2842.5	2842.5	2842.5	2718.8	2712.3	3296.0	3278.6	3224.4	3823.3	3899.2
42.5°	2553.9	2560.4	2564.8	2252.3	2078.7	2849.0	2810.0	2727.5	3283.0	3371.9
45°	2256.6	2267.5	2280.5	1883.4	1807.5	2050.5	2378.2	2287.0	2749.2	2864.2
47.5°	1377.9	1395.2	1690.3	1597.0	1605.7	1581.8	1939.8	1924.7	2254.5	2417.2
50°	930.9	937.4	965.6	1013.3	1377.9	1243.3	1373.5	1592.7	1712.0	1959.4
52.5°	781.1	792.0	722.6	657.5	904.8	972.1	959.1	1182.6	1230.3	1536.3
55°	549.0	583.7	551.1	544.6	514.3	755.1	726.9	909.2	939.5	1167.4
57.5°	56.4	65.1	112.8	405.8	336.3	427.5	518.6	666.1	696.5	861.4
60°	4.3	4.3	10.8	56.4	245.2	256.0	358.0	410.1	468.7	601.0
62.5°	0.0	2.2	4.3	8.7	39.1	136.7	180.1	214.8	282.1	388.4
65°	0.0	0.0	2.2	6.5	8.7	52.1	69.4	112.8	154.1	240.9
67.5°	0.0	0.0	2.2	4.3	6.5	13.0	23.9	41.2	82.5	136.7
70°	0.0	0.0	2.2	4.3	6.5	10.8	17.4	26.0	36.9	73.8
72.5°	0.0	0.0	2.2	2.2	4.3	10.8	13.0	17.4	26.0	36.9
75°	0.0	0.0	2.2	2.2	6.5	13.0	10.8	13.0	17.4	23.9
77.5°	0.0	0.0	2.2	4.3	6.5	13.0	10.8	13.0	13.0	15.2
80°	0.0	0.0	2.2	4.3	8.7	15.2	13.0	13.0	10.8	10.8
82.5°	0.0	0.0	2.2	6.5	8.7	19.5	19.5	17.4	8.7	6.5
85°	0.0	0.0	4.3	8.7	13.0	21.7	21.7	17.4	6.5	4.3
87.5°	0.0	0.0	4.3	6.5	10.8	15.2	21.7	17.4	6.5	2.2
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°
11725.9	0°	11725.9	11725.9	11725.9	11725.9	11725.9	11725.9	11725.9	11725.9	11725.9
11689.0	2.5°	11747.6	11734.5	11777.9	11795.3	11819.2	11728.0	11671.6	11673.8	11569.6
11556.6	5°	11626.1	11628.2	11684.6	11680.3	11704.2	11654.3	11632.6	11595.7	11504.5
11389.5	7.5°	11472.0	11452.5	11506.7	11547.9	11487.2	11521.9	11472.0	11489.4	11435.1
11242.0	10°	11352.6	11307.1	11357.0	11385.2	11387.4	11352.6	11304.9	11259.3	11239.8
11012.0	12.5°	11087.9	11029.3	11114.0	11153.0	11146.5	11079.2	11025.0	11035.9	10972.9
10608.4	15°	10723.4	10725.6	10786.3	10823.2	10788.5	10773.3	10777.6	10751.6	10697.4
10050.7	17.5°	10165.7	10198.3	10358.9	10447.8	10467.4	10437.0	10421.8	10391.4	10337.2
9161.1	20°	9237.0	9432.3	9718.8	9994.3	10048.6	10039.9	9985.6	9972.6	9942.2
8280.1	22.5°	8421.2	8566.6	8898.6	9328.2	9549.5	9571.2	9506.1	9486.6	9454.0
7492.5	25°	7577.1	7733.3	8032.8	8499.3	8957.1	9050.4	9039.6	8981.0	8946.3
6793.8	27.5°	6865.4	7021.6	7292.9	7713.8	8204.2	8503.6	8531.8	8438.5	8436.4
6171.1	30°	6223.1	6437.9	6644.1	6986.9	7462.1	7911.3	7959.0	7893.9	7900.4
5600.4	32.5°	5719.7	5897.6	6073.4	6303.4	6698.3	7221.3	7407.9	7347.1	7323.2
5125.2	35°	5205.5	5327.0	5507.1	5717.6	5986.6	6505.2	6828.5	6782.9	6759.1
4482.9	37.5°	4619.6	4827.9	4958.1	5194.6	5405.1	5817.4	6273.0	6266.5	6216.6
3936.1	40°	4018.6	4237.7	4435.2	4673.9	4836.6	5164.2	5669.8	5667.6	5674.2
3369.8	42.5°	3473.9	3675.7	3914.4	4174.8	4331.0	4569.7	5112.2	5142.5	5179.4
2903.3	45°	2981.4	3163.6	3385.0	3701.8	3890.5	4027.2	4508.9	4647.8	4645.6
2486.6	47.5°	2538.7	2710.1	2896.7	3204.9	3445.7	3569.4	3968.7	4166.1	4153.1
2039.7	50°	2130.8	2282.7	2478.0	2701.5	3024.8	3133.3	3430.5	3690.9	3671.4
1625.2	52.5°	1714.2	1924.7	2089.6	2293.5	2634.2	2740.5	2970.5	3224.4	3209.2
1219.5	55°	1336.6	1540.6	1740.2	1916.0	2202.4	2360.8	2525.7	2786.1	2781.7
954.7	57.5°	1011.1	1234.6	1423.4	1590.5	1818.3	2013.6	2146.0	2382.5	2412.9
653.1	60°	748.6	920.0	1124.0	1310.6	1490.7	1692.5	1781.4	2013.6	2026.6
447.0	62.5°	509.9	698.7	898.3	1067.6	1202.1	1410.4	1490.7	1681.6	1705.5
286.4	65°	353.7	475.2	703.0	824.5	989.5	1167.4	1247.7	1399.6	1447.3
164.9	67.5°	234.3	338.5	549.0	659.6	822.4	943.9	1045.9	1169.5	1221.6
104.2	70°	128.0	249.5	392.7	520.8	661.8	779.0	878.8	978.6	1024.2
47.7	72.5°	86.8	167.1	273.4	412.3	533.8	648.8	737.7	811.5	813.7
28.2	75°	43.4	112.8	208.3	319.0	416.6	529.4	609.7	653.1	601.0
17.4	77.5°	26.0	82.5	169.2	256.0	338.5	427.5	473.0	496.9	412.3
13.0	80°	15.2	58.6	132.4	204.0	234.3	314.6	358.0	364.5	275.6
8.7	82.5°	10.8	43.4	104.2	149.7	143.2	221.3	269.1	260.4	175.8
6.5	85°	6.5	30.4	65.1	93.3	86.8	145.4	156.2	160.6	102.0
4.3	87.5°	4.3	17.4	34.7	49.9	41.2	62.9	62.9	75.9	49.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11725.9
11435.1
11482.8
11344.0
11153.0
10918.7
10643.1
10313.3
9872.8
9445.4
8909.4
8432.0
7867.9
7325.4
6726.5
6257.8
5674.2
5159.9
4650.0
4157.4
3688.7
3241.8
2792.6
2399.9
2046.2
1709.8
1436.4
1215.1
1006.8
794.2
562.0
397.1
258.2
162.7
93.3
43.4
0.0

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