

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: P638092

Luminaire Tested: **IFLD-L-SA7B-727-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638092
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-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: 22908.1 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

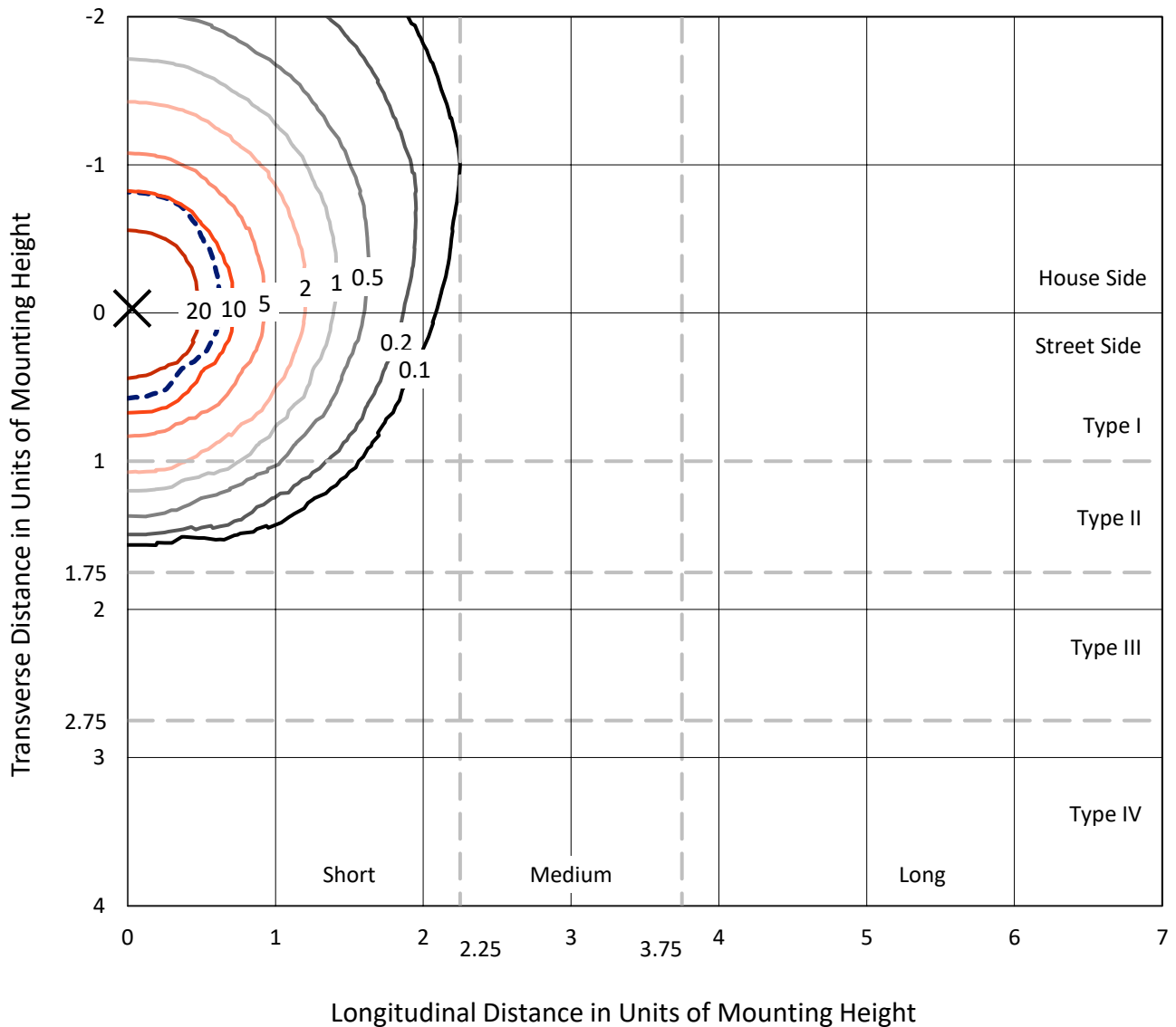
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

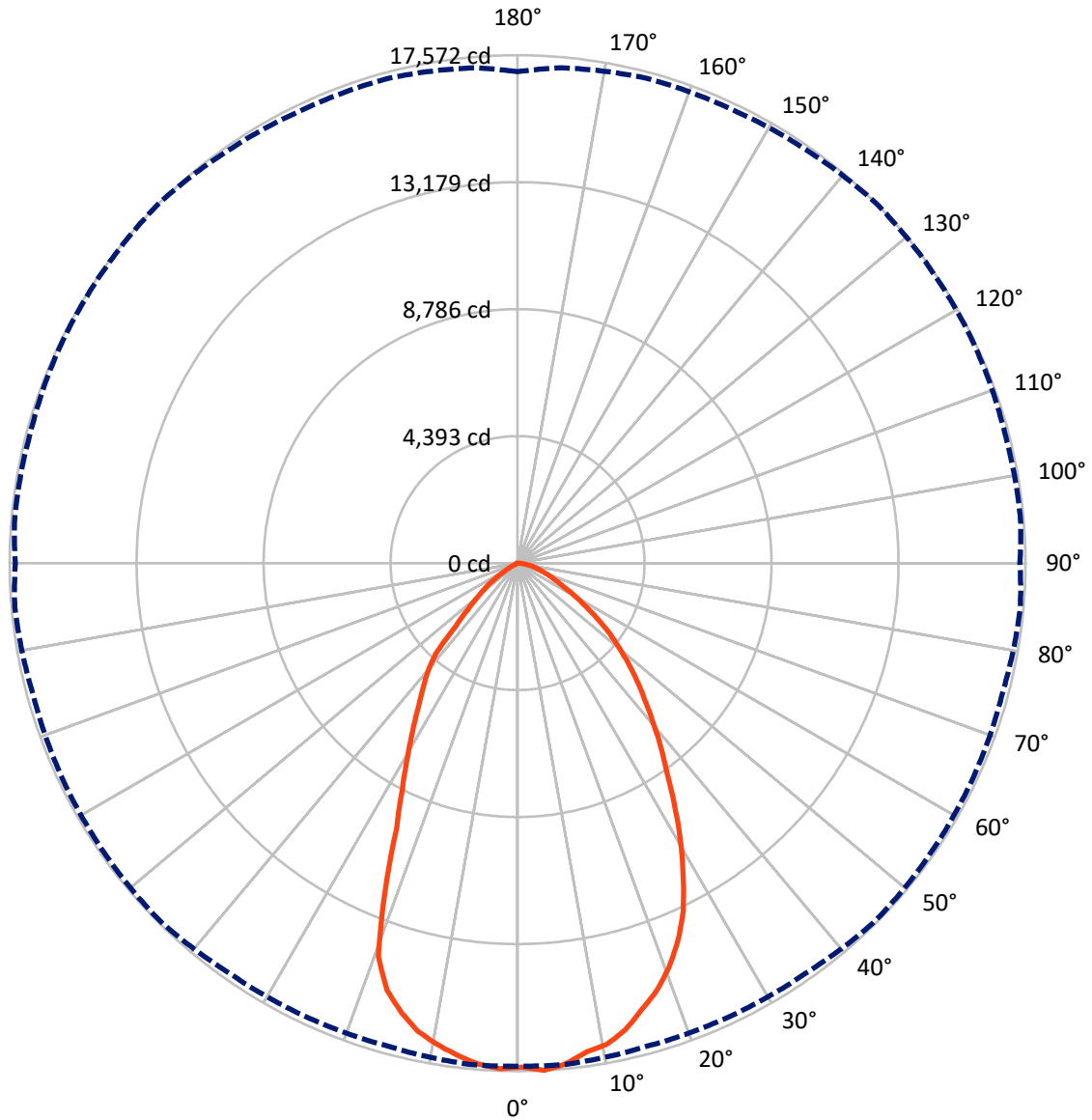
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 43.6 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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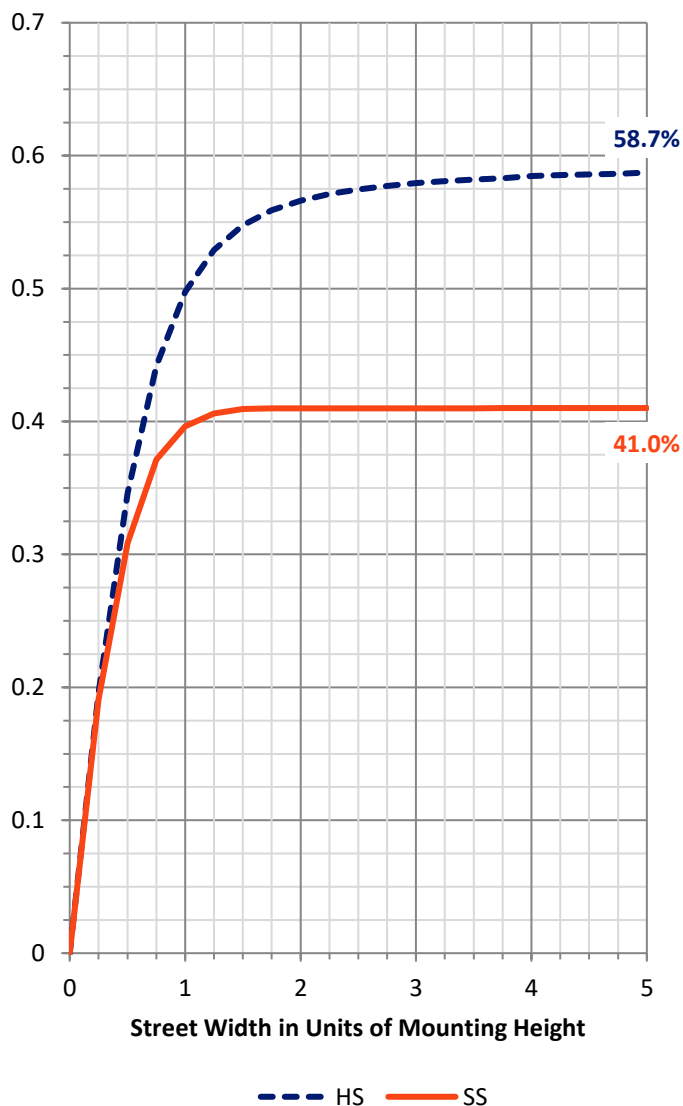
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13567.4	0.0	13567.4
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	9340.8	0.0	9340.8
	% Fixture	40.8	0.0	40.8
Total	Lumens	22908.1	0.0	22908.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1634.9	7.1
10°-20°	4384.2	19.1
20°-30°	5346.8	23.3
30°-40°	4881.5	21.3
40°-50°	3527.8	15.4
50°-60°	1926.2	8.4
60°-70°	796.4	3.5
70°-80°	322.5	1.4
80°-90°	87.7	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°	22908.1	100.0
0°-180°	22908.1	100.0



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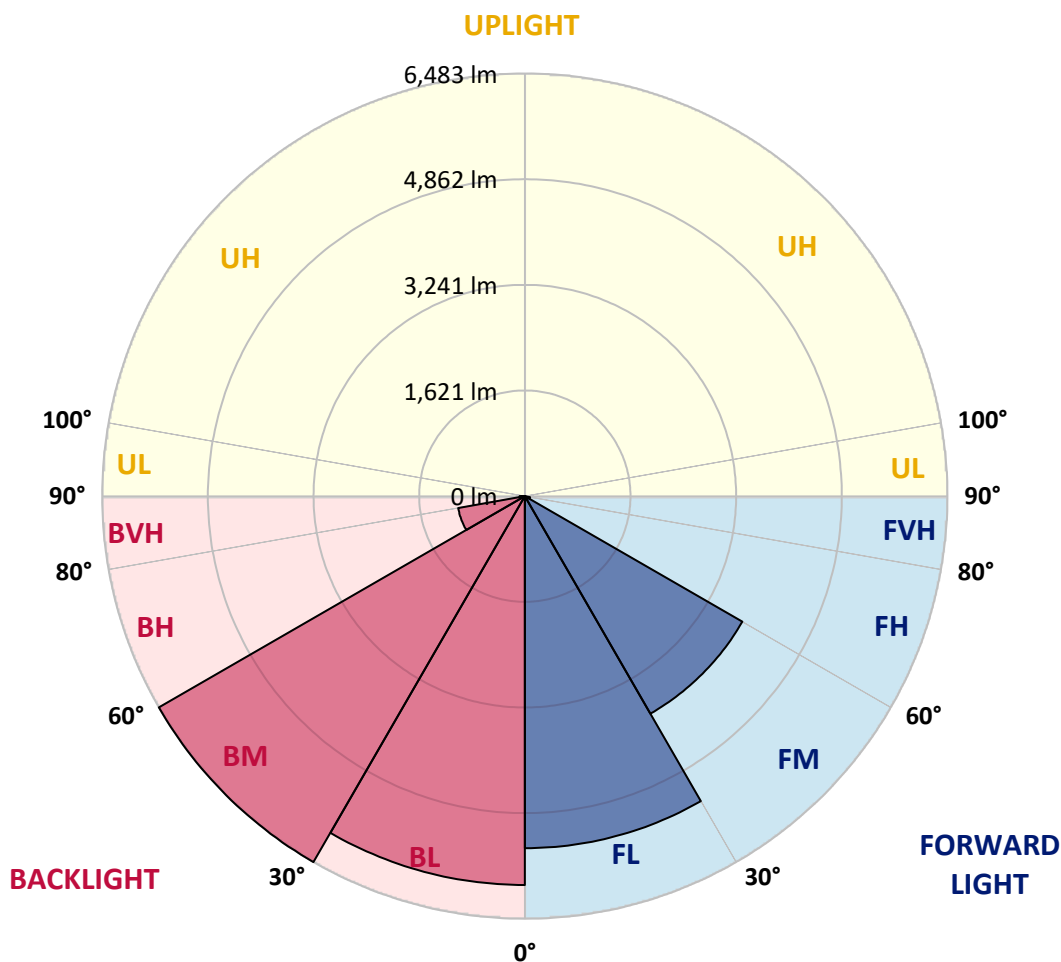
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5400.3	23.6			
FM (30°-60°)	3852.7	16.8			
FH (60°-80°)	80.7	0.4			G0/660
FVH (80°-90°)	7.0	0.0			G0/10
BL (0°-30°)	5965.6	26.0	B5		
BM (30°-60°)	6482.8	28.3	B4/8500		
BH (60°-80°)	1038.2	4.5	B3/2500		G3/2500
BVH (80°-90°)	80.7	0.4			G1/100
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°	17433.0	17433.0	17433.0	17433.0	17433.0	17433.0	17433.0	17433.0	17433.0	17433.0
2.5°	17400.8	17423.3	17300.8	17313.7	17336.2	17500.8	17458.8	17420.1	17365.3	17458.8
5°	17378.2	17391.1	17262.0	17216.9	17236.2	17384.6	17249.1	17249.1	17236.2	17220.1
7.5°	17204.0	17210.4	17110.4	17029.8	17081.4	17149.1	17049.1	17097.5	17026.6	17081.4
10°	16942.7	16900.7	16781.4	16758.8	16816.9	16881.4	16813.6	16858.8	16794.3	16836.2
12.5°	16558.8	16494.3	16397.5	16368.5	16468.5	16555.6	16500.7	16474.9	16391.0	16494.3
15°	15078.1	15029.7	15249.1	15632.9	15978.1	16052.3	15994.3	16020.1	15845.9	15874.9
17.5°	12410.2	12319.9	12555.4	13465.1	14761.9	15445.8	15394.2	15226.5	14968.4	15026.5
20°	11277.9	11252.1	11226.3	11442.4	12348.9	14423.2	14494.2	14068.4	13700.6	13620.0
22.5°	10639.2	10629.5	10603.7	10652.1	10890.8	12223.1	13036.1	12642.5	12397.3	12374.7
25°	10055.3	10039.2	9961.7	10023.0	10023.0	10100.4	11142.4	11381.1	11165.0	11139.2
27.5°	9461.7	9432.7	9419.8	9448.8	9300.4	8777.8	9042.3	10206.9	10094.0	10100.4
30°	8819.7	8810.1	8774.6	8835.9	8377.8	7729.4	7561.6	9142.3	9164.9	9158.5
32.5°	7864.9	7906.8	8068.1	8135.8	7381.0	6845.5	6564.8	7910.0	8371.3	8361.7
35°	5713.2	5713.2	6239.0	7216.4	6468.0	6064.8	5913.2	6706.7	7587.4	7619.7
37.5°	4697.0	4713.1	4816.3	5261.5	5580.9	5438.9	5393.8	5645.4	6580.9	6632.5
40°	4226.0	4226.0	4226.0	4042.1	4032.4	4900.2	4874.4	4793.8	5684.1	5797.0
42.5°	3796.9	3806.6	3813.1	3348.5	3090.5	4235.7	4177.6	4055.0	4880.9	5013.1
45°	3355.0	3371.1	3390.5	2800.1	2687.2	3048.5	3535.6	3400.1	4087.3	4258.3
47.5°	2048.5	2074.3	2513.0	2374.3	2387.2	2351.7	2884.0	2861.4	3351.8	3593.7
50°	1383.9	1393.6	1435.5	1506.5	2048.5	1848.5	2042.0	2367.8	2545.3	2913.0
52.5°	1161.3	1177.5	1074.2	977.5	1345.2	1445.2	1425.9	1758.1	1829.1	2284.0
55°	816.2	867.8	819.4	809.7	764.5	1122.6	1080.7	1351.7	1396.8	1735.6
57.5°	83.9	96.8	167.7	603.3	500.0	635.5	771.0	990.4	1035.5	1280.7
60°	6.5	6.5	16.1	83.9	364.5	380.7	532.3	609.7	696.8	893.6
62.5°	0.0	3.2	6.5	12.9	58.1	203.2	267.8	319.4	419.4	577.4
65°	0.0	0.0	3.2	9.7	12.9	77.4	103.2	167.7	229.0	358.1
67.5°	0.0	0.0	3.2	6.5	9.7	19.4	35.5	61.3	122.6	203.2
70°	0.0	0.0	3.2	6.5	9.7	16.1	25.8	38.7	54.8	109.7
72.5°	0.0	0.0	3.2	3.2	6.5	16.1	19.4	25.8	38.7	54.8
75°	0.0	0.0	3.2	3.2	9.7	19.4	16.1	19.4	25.8	35.5
77.5°	0.0	0.0	3.2	6.5	9.7	19.4	16.1	19.4	19.4	22.6
80°	0.0	0.0	3.2	6.5	12.9	22.6	19.4	19.4	16.1	16.1
82.5°	0.0	0.0	3.2	9.7	12.9	29.0	29.0	25.8	12.9	9.7
85°	0.0	0.0	6.5	12.9	19.4	32.3	32.3	25.8	9.7	6.5
87.5°	0.0	0.0	6.5	9.7	16.1	22.6	32.3	25.8	9.7	3.2
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°
17433.0	0°	17433.0	17433.0	17433.0	17433.0	17433.0	17433.0	17433.0	17433.0	17433.0
17378.2	2.5°	17465.3	17445.9	17510.4	17536.3	17571.7	17436.3	17352.4	17355.6	17200.8
17181.4	5°	17284.6	17287.9	17371.7	17365.3	17400.8	17326.6	17294.3	17239.5	17104.0
16933.0	7.5°	17055.6	17026.6	17107.2	17168.5	17078.2	17129.8	17055.6	17081.4	17000.7
16713.6	10°	16878.2	16810.4	16884.6	16926.6	16929.8	16878.2	16807.2	16739.4	16710.4
16371.7	12.5°	16484.6	16397.5	16523.3	16581.4	16571.7	16471.7	16391.0	16407.2	16313.6
15771.7	15°	15942.6	15945.9	16036.2	16091.0	16039.4	16016.8	16023.3	15984.6	15903.9
14942.6	17.5°	15113.6	15162.0	15400.7	15532.9	15562.0	15516.8	15494.2	15449.1	15368.4
13620.0	20°	13732.9	14023.2	14449.0	14858.7	14939.4	14926.5	14845.8	14826.5	14781.3
12310.2	22.5°	12519.9	12736.0	13229.6	13868.4	14197.4	14229.7	14132.9	14103.8	14055.5
11139.2	25°	11265.0	11497.3	11942.5	12636.0	13316.7	13455.4	13439.3	13352.2	13300.6
10100.4	27.5°	10206.9	10439.2	10842.4	11468.2	12197.3	12642.5	12684.4	12545.7	12542.5
9174.6	30°	9252.0	9571.4	9877.9	10387.6	11094.0	11761.8	11832.8	11736.0	11745.7
8326.2	32.5°	8503.6	8768.1	9029.4	9371.4	9958.5	10736.0	11013.4	10923.1	10887.6
7619.7	35°	7739.0	7919.7	8187.5	8500.4	8900.4	9671.4	10152.1	10084.3	10048.8
6664.8	37.5°	6868.0	7177.7	7371.3	7722.9	8035.8	8648.8	9326.2	9316.5	9242.3
5851.9	40°	5974.5	6300.3	6593.8	6948.7	7190.6	7677.8	8429.4	8426.2	8435.9
5009.9	42.5°	5164.7	5464.8	5819.6	6206.7	6439.0	6793.8	7600.3	7645.5	7700.3
4316.3	45°	4432.5	4703.4	5032.5	5503.5	5784.1	5987.4	6703.5	6910.0	6906.8
3696.9	47.5°	3774.4	4029.2	4306.6	4764.7	5122.8	5306.7	5900.3	6193.8	6174.5
3032.4	50°	3167.9	3393.7	3684.0	4016.3	4497.0	4658.3	5100.2	5487.3	5458.3
2416.2	52.5°	2548.5	2861.4	3106.6	3409.8	3916.3	4074.4	4416.3	4793.8	4771.2
1813.0	55°	1987.2	2290.4	2587.2	2848.5	3274.3	3509.8	3755.0	4142.1	4135.7
1419.4	57.5°	1503.3	1835.6	2116.2	2364.6	2703.3	2993.7	3190.5	3542.1	3587.3
971.0	60°	1113.0	1367.8	1671.0	1948.5	2216.2	2516.2	2648.5	2993.7	3013.0
664.5	62.5°	758.1	1038.8	1335.5	1587.2	1787.2	2096.9	2216.2	2500.1	2535.6
425.8	65°	525.8	706.5	1045.2	1225.9	1471.0	1735.6	1854.9	2080.7	2151.7
245.2	67.5°	348.4	503.2	816.2	980.7	1222.6	1403.3	1554.9	1738.8	1816.2
154.8	70°	190.3	371.0	583.9	774.2	983.9	1158.1	1306.5	1454.9	1522.6
71.0	72.5°	129.0	248.4	406.5	612.9	793.6	964.6	1096.8	1206.5	1209.7
41.9	75°	64.5	167.7	309.7	474.2	619.4	787.1	906.5	971.0	893.6
25.8	77.5°	38.7	122.6	251.6	380.7	503.2	635.5	703.3	738.7	612.9
19.4	80°	22.6	87.1	196.8	303.2	348.4	467.8	532.3	542.0	409.7
12.9	82.5°	16.1	64.5	154.8	222.6	212.9	329.0	400.0	387.1	261.3
9.7	85°	9.7	45.2	96.8	138.7	129.0	216.1	232.3	238.7	151.6
6.5	87.5°	6.5	25.8	51.6	74.2	61.3	93.6	93.6	112.9	74.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
17433.0
17000.7
17071.7
16865.3
16581.4
16233.0
15823.3
15332.9
14678.1
14042.6
13245.7
12536.0
11697.3
10890.8
10000.4
9303.6
8435.9
7671.3
6913.2
6180.9
5484.1
4819.6
4151.8
3567.9
3042.1
2542.0
2135.6
1806.5
1496.8
1180.7
835.5
590.3
383.9
241.9
138.7
64.5
0.0

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