

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: P638199

Luminaire Tested: **IFLD-S-SA6C-750-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638199
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-750-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32692.9 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

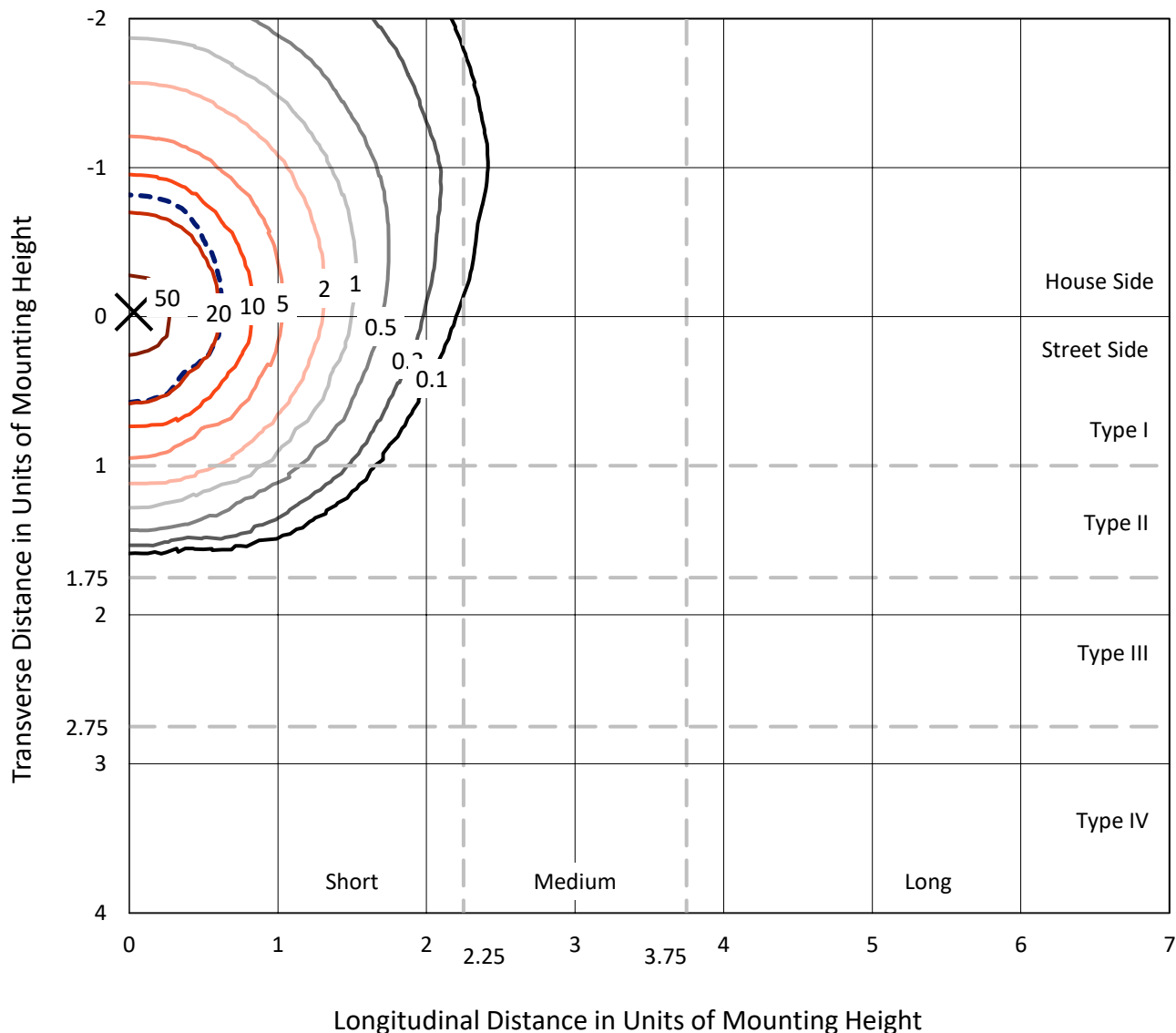
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

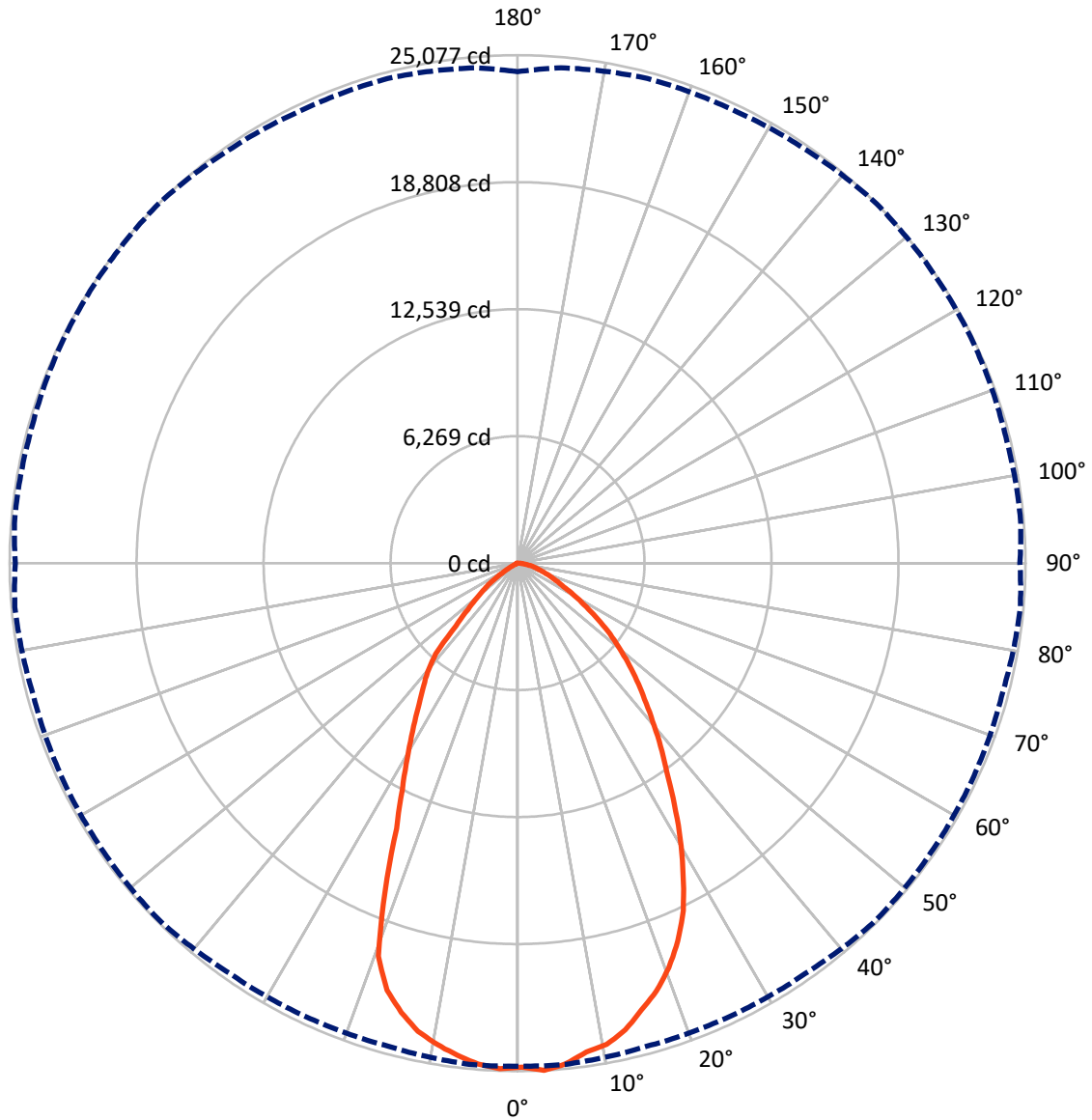
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 62.2 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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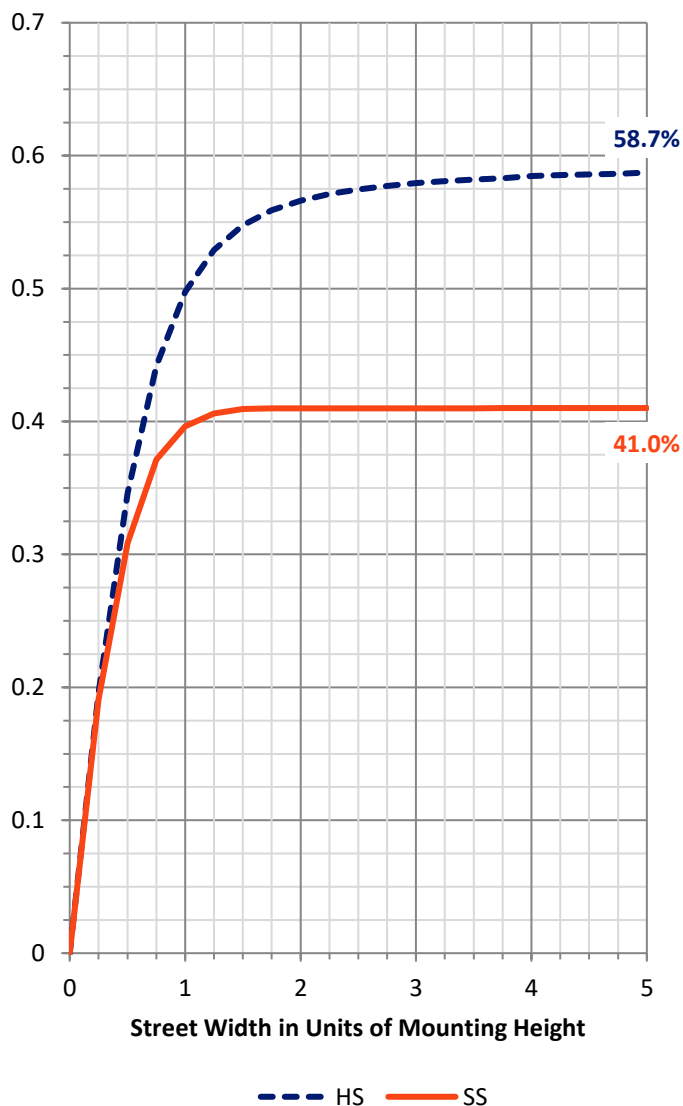
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19362.4	0.0	19362.4
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	13330.5	0.0	13330.5
	% Fixture	40.8	0.0	40.8
Total	Lumens	32692.9	0.0	32692.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2333.3	7.1
10°-20°	6256.8	19.1
20°-30°	7630.5	23.3
30°-40°	6966.6	21.3
40°-50°	5034.6	15.4
50°-60°	2748.9	8.4
60°-70°	1136.6	3.5
70°-80°	460.3	1.4
80°-90°	125.2	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°	32692.9	100.0
0°-180°	32692.9	100.0



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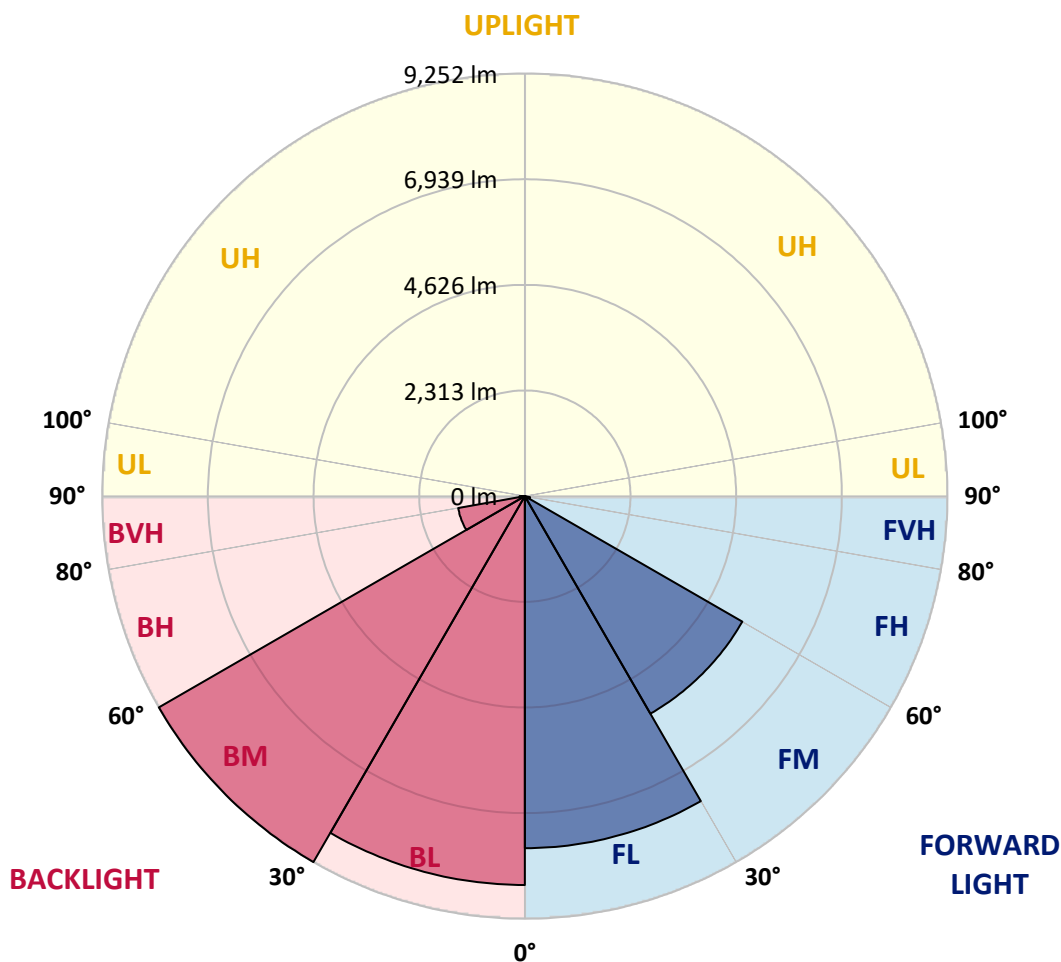
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7706.9	23.6			
FM (30°-60°)	5498.3	16.8			
FH (60°-80°)	115.2	0.4			G0/660
FVH (80°-90°)	10.0	0.0			G1/100
BL (0°-30°)	8513.7	26.0	B5		
BM (30°-60°)	9251.8	28.3	B5		
BH (60°-80°)	1481.7	4.5	B3/2500		G3/2500
BVH (80°-90°)	115.2	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°	24879.2	24879.2	24879.2	24879.2	24879.2	24879.2	24879.2	24879.2	24879.2	24879.2
2.5°	24833.2	24865.4	24690.4	24708.9	24741.1	24975.9	24916.0	24860.8	24782.5	24916.0
5°	24800.9	24819.4	24635.2	24570.7	24598.4	24810.1	24616.8	24616.8	24598.4	24575.4
7.5°	24552.3	24561.5	24418.8	24303.7	24377.4	24474.1	24331.3	24400.4	24299.1	24377.4
10°	24179.4	24119.6	23949.2	23917.0	23999.9	24091.9	23995.3	24059.7	23967.6	24027.5
12.5°	23631.6	23539.5	23401.4	23359.9	23502.7	23627.0	23548.7	23511.9	23392.2	23539.5
15°	21518.4	21449.3	21762.4	22310.3	22802.9	22908.8	22825.9	22862.7	22614.1	22655.5
17.5°	17711.0	17582.1	17918.2	19216.5	21067.2	22043.2	21969.6	21730.2	21361.9	21444.7
20°	16095.1	16058.2	16021.4	16329.9	17623.5	20583.8	20685.1	20077.4	19552.6	19437.5
22.5°	15183.5	15169.7	15132.9	15201.9	15542.6	17444.0	18604.2	18042.5	17692.6	17660.4
25°	14350.2	14327.2	14216.7	14304.2	14304.2	14414.7	15901.7	16242.4	15933.9	15897.1
27.5°	13503.1	13461.7	13443.2	13484.7	13272.9	12527.1	12904.6	14566.6	14405.4	14414.7
30°	12586.9	12573.1	12522.5	12609.9	11956.2	11030.8	10791.4	13047.3	13079.5	13070.3
32.5°	11224.2	11284.0	11514.2	11610.9	10533.6	9769.4	9368.8	11288.6	11947.0	11933.2
35°	8153.4	8153.4	8903.8	10298.8	9230.7	8655.2	8438.9	9571.4	10828.3	10874.3
37.5°	6703.2	6726.2	6873.5	7508.9	7964.7	7762.1	7697.6	8056.7	9391.9	9465.5
40°	6031.0	6031.0	6031.0	5768.6	5754.8	6993.2	6956.4	6841.3	8112.0	8273.1
42.5°	5418.7	5432.5	5441.8	4778.8	4410.5	6044.9	5962.0	5787.0	6965.6	7154.4
45°	4788.0	4811.0	4838.6	3996.1	3835.0	4350.6	5045.8	4852.5	5833.1	6077.1
47.5°	2923.4	2960.3	3586.4	3388.4	3406.8	3356.2	4115.8	4083.6	4783.4	5128.7
50°	1975.1	1988.9	2048.7	2150.0	2923.4	2638.0	2914.2	3379.2	3632.4	4157.3
52.5°	1657.4	1680.4	1533.1	1395.0	1919.8	2062.5	2034.9	2509.1	2610.4	3259.5
55°	1164.8	1238.4	1169.4	1155.6	1091.1	1602.1	1542.3	1929.0	1993.5	2476.9
57.5°	119.7	138.1	239.4	860.9	713.6	907.0	1100.3	1413.4	1477.8	1827.7
60°	9.2	9.2	23.0	119.7	520.2	543.3	759.6	870.1	994.4	1275.3
62.5°	0.0	4.6	9.2	18.4	82.9	290.0	382.1	455.8	598.5	824.1
65°	0.0	0.0	4.6	13.8	18.4	110.5	147.3	239.4	326.9	511.0
67.5°	0.0	0.0	4.6	9.2	13.8	27.6	50.6	87.5	174.9	290.0
70°	0.0	0.0	4.6	9.2	13.8	23.0	36.8	55.2	78.3	156.5
72.5°	0.0	0.0	4.6	4.6	9.2	23.0	27.6	36.8	55.2	78.3
75°	0.0	0.0	4.6	4.6	13.8	27.6	23.0	27.6	36.8	50.6
77.5°	0.0	0.0	4.6	9.2	13.8	27.6	23.0	27.6	27.6	32.2
80°	0.0	0.0	4.6	9.2	18.4	32.2	27.6	27.6	23.0	23.0
82.5°	0.0	0.0	4.6	13.8	18.4	41.4	41.4	36.8	18.4	13.8
85°	0.0	0.0	9.2	18.4	27.6	46.0	46.0	36.8	13.8	9.2
87.5°	0.0	0.0	9.2	13.8	23.0	32.2	46.0	36.8	13.8	4.6
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°
24879.2	0°	24879.2	24879.2	24879.2	24879.2	24879.2	24879.2	24879.2	24879.2	24879.2
24800.9	2.5°	24925.2	24897.6	24989.7	25026.5	25077.2	24883.8	24764.1	24768.7	24547.7
24520.1	5°	24667.4	24672.0	24791.7	24782.5	24833.2	24727.3	24681.2	24603.0	24409.6
24165.6	7.5°	24340.6	24299.1	24414.2	24501.7	24372.8	24446.4	24340.6	24377.4	24262.3
23852.5	10°	24087.3	23990.7	24096.6	24156.4	24161.0	24087.3	23986.1	23889.4	23847.9
23364.5	12.5°	23525.7	23401.4	23580.9	23663.8	23650.0	23507.3	23392.2	23415.2	23281.7
22508.2	15°	22752.2	22756.8	22885.7	22964.0	22890.3	22858.1	22867.3	22812.1	22697.0
21325.0	17.5°	21569.0	21638.1	21978.8	22167.5	22209.0	22144.5	22112.3	22047.8	21932.7
19437.5	20°	19598.6	20012.9	20620.6	21205.3	21320.4	21302.0	21186.9	21159.3	21094.8
17568.3	22.5°	17867.5	18176.0	18880.4	19792.0	20261.5	20307.6	20169.5	20128.0	20059.0
15897.1	25°	16076.6	16408.1	17043.5	18033.3	19004.7	19202.7	19179.6	19055.3	18981.7
14414.7	27.5°	14566.6	14898.1	15473.5	16366.7	17407.2	18042.5	18102.3	17904.4	17899.8
13093.3	30°	13203.8	13659.6	14097.0	14824.4	15832.6	16785.6	16886.9	16748.8	16762.6
11882.5	32.5°	12135.7	12513.3	12886.2	13374.2	14212.1	15321.6	15717.5	15588.6	15538.0
10874.3	35°	11044.6	11302.5	11684.6	12131.1	12702.0	13802.3	14488.3	14391.6	14341.0
9511.6	37.5°	9801.6	10243.6	10519.8	11021.6	11468.2	12342.9	13309.7	13295.9	13190.0
8351.4	40°	8526.3	8991.3	9410.3	9916.7	10262.0	10957.2	12029.9	12025.3	12039.1
7149.8	42.5°	7370.8	7798.9	8305.3	8857.8	9189.3	9695.7	10846.7	10911.1	10989.4
6160.0	45°	6325.7	6712.4	7182.0	7854.2	8254.7	8544.7	9566.8	9861.4	9856.8
5276.0	47.5°	5386.5	5750.2	6146.1	6799.9	7310.9	7573.3	8420.4	8839.4	8811.8
4327.6	50°	4521.0	4843.3	5257.6	5731.8	6417.8	6648.0	7278.7	7831.1	7789.7
3448.3	52.5°	3637.0	4083.6	4433.5	4866.3	5589.1	5814.7	6302.7	6841.3	6809.1
2587.4	55°	2836.0	3268.7	3692.3	4065.2	4672.9	5009.0	5358.9	5911.3	5902.1
2025.7	57.5°	2145.4	2619.6	3020.1	3374.6	3858.0	4272.4	4553.2	5055.0	5119.5
1385.8	60°	1588.3	1952.0	2384.8	2780.7	3162.8	3591.0	3779.8	4272.4	4300.0
948.4	62.5°	1081.9	1482.4	1906.0	2265.1	2550.5	2992.5	3162.8	3568.0	3618.6
607.7	65°	750.4	1008.2	1491.6	1749.5	2099.4	2476.9	2647.2	2969.5	3070.8
349.9	67.5°	497.2	718.2	1164.8	1399.6	1744.9	2002.7	2219.1	2481.5	2592.0
221.0	70°	271.6	529.4	833.3	1104.9	1404.2	1652.8	1864.6	2076.3	2173.0
101.3	72.5°	184.2	354.5	580.1	874.7	1132.5	1376.6	1565.3	1721.8	1726.4
59.9	75°	92.1	239.4	442.0	676.8	883.9	1123.3	1293.7	1385.8	1275.3
36.8	77.5°	55.2	174.9	359.1	543.3	718.2	907.0	1003.6	1054.3	874.7
27.6	80°	32.2	124.3	280.8	432.8	497.2	667.6	759.6	773.4	584.7
18.4	82.5°	23.0	92.1	221.0	317.7	303.9	469.6	570.9	552.5	372.9
13.8	85°	13.8	64.5	138.1	198.0	184.2	308.5	331.5	340.7	216.4
9.2	87.5°	9.2	36.8	73.7	105.9	87.5	133.5	133.5	161.1	105.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
24879.2
24262.3
24363.6
24068.9
23663.8
23166.6
22581.9
21882.1
20947.5
20040.6
18903.4
17890.6
16693.6
15542.6
14271.9
13277.5
12039.1
10948.0
9866.1
8821.0
7826.5
6878.2
5925.2
5091.9
4341.4
3627.8
3047.7
2578.2
2136.2
1685.0
1192.4
842.5
547.9
345.3
198.0
92.1
0.0

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