

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: P638085

Luminaire Tested: **IFLD-S-SA6E-727-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638085
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-727-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34037.3 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

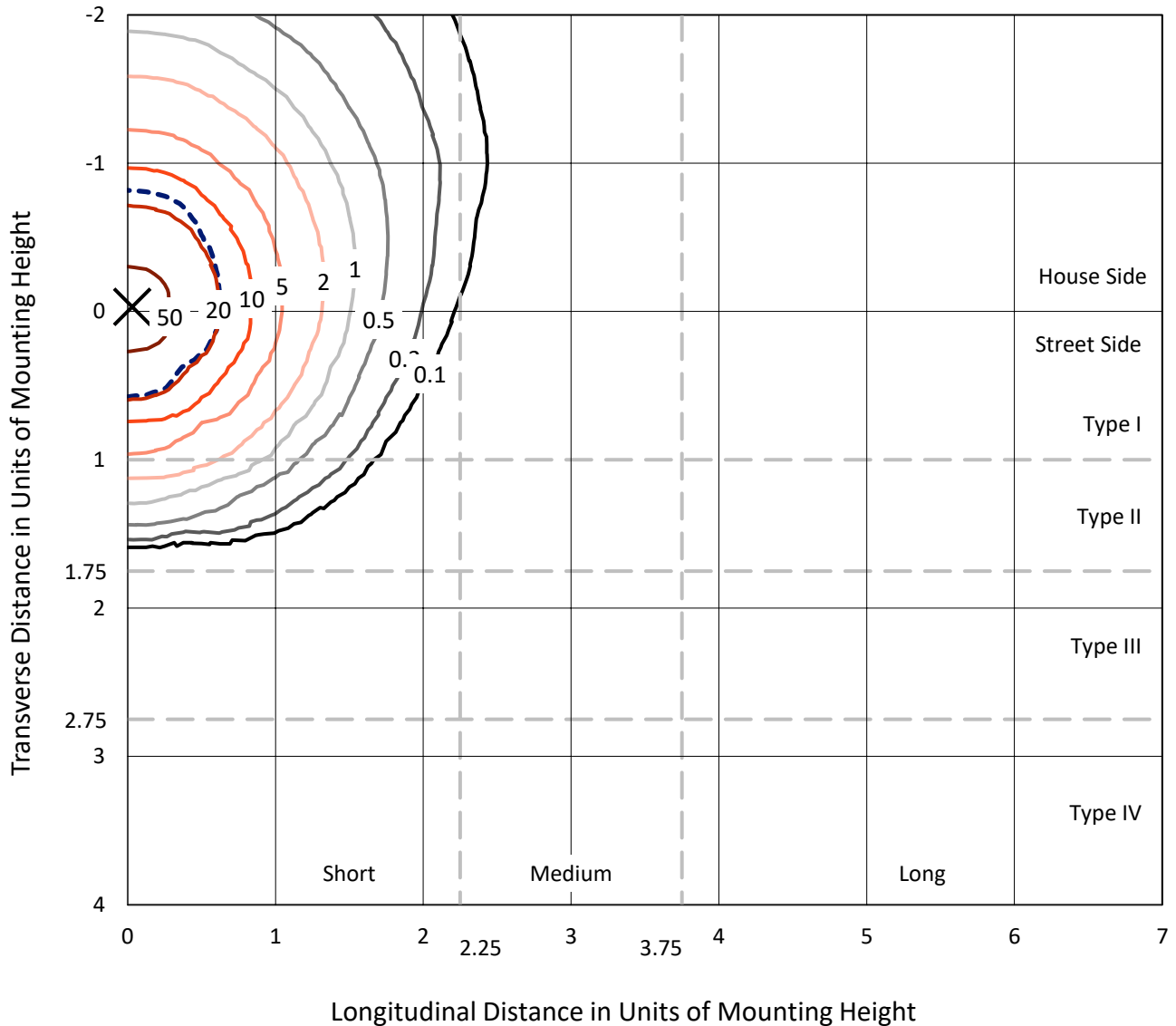
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

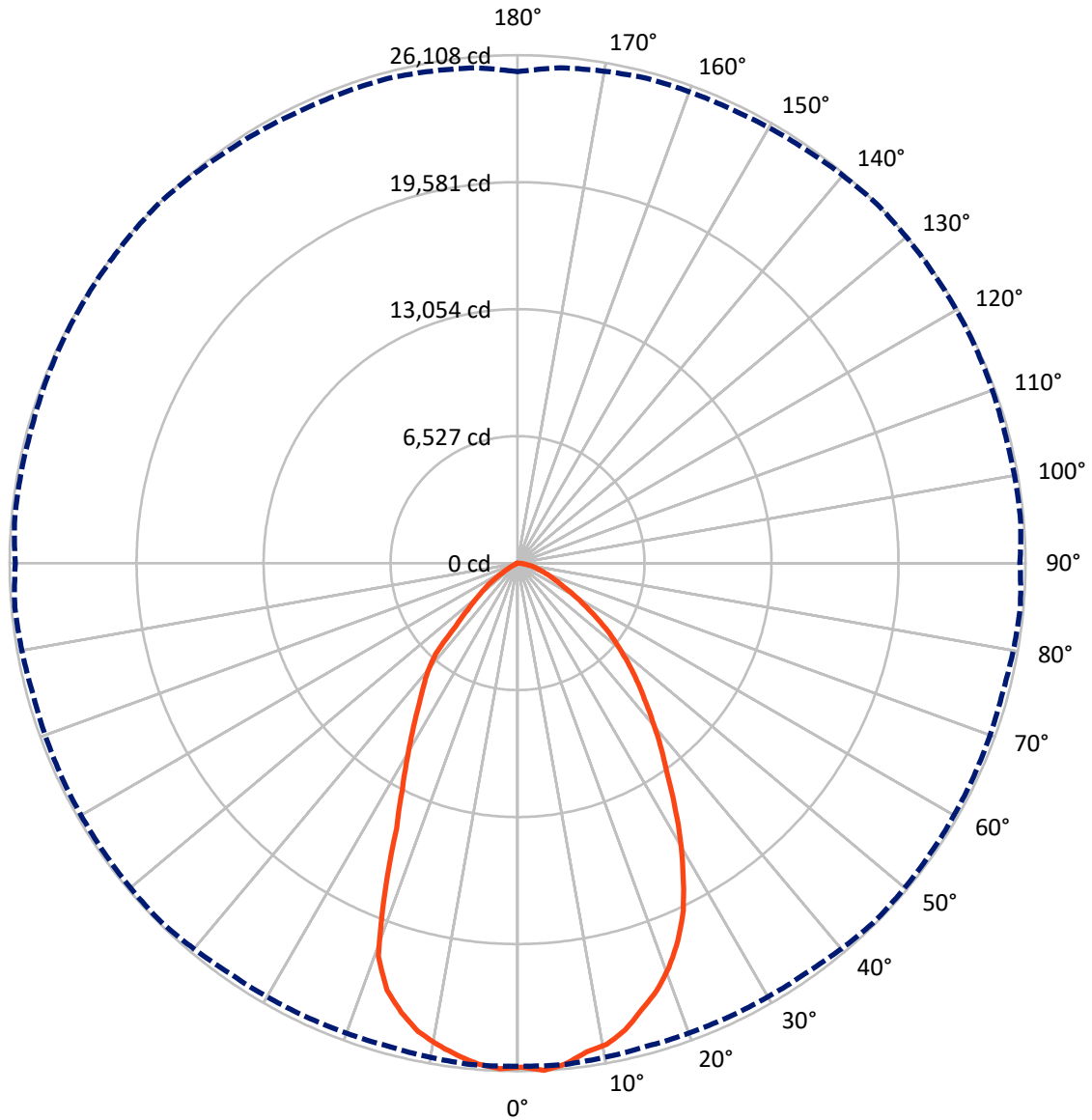
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 64.8 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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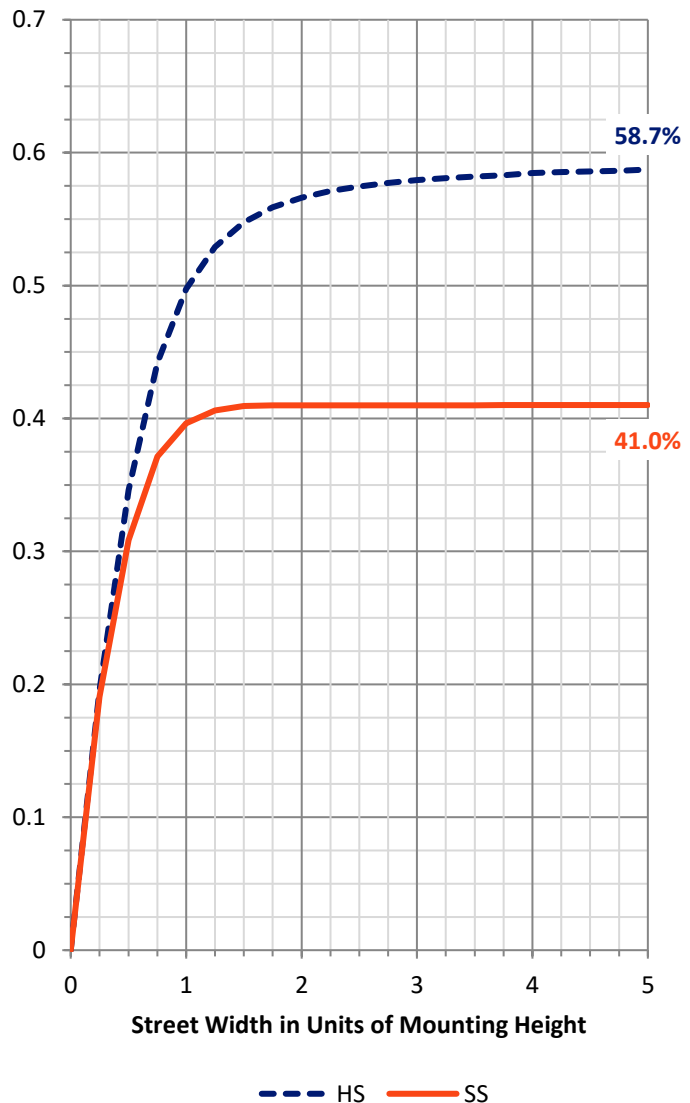
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20158.6	0.0	20158.6
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	13878.7	0.0	13878.7
	% Fixture	40.8	0.0	40.8
Total	Lumens	34037.3	0.0	34037.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2429.2	7.1
10°-20°	6514.1	19.1
20°-30°	7944.3	23.3
30°-40°	7253.1	21.3
40°-50°	5241.6	15.4
50°-60°	2862.0	8.4
60°-70°	1183.3	3.5
70°-80°	479.3	1.4
80°-90°	130.4	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°	34037.3	100.0
0°-180°	34037.3	100.0



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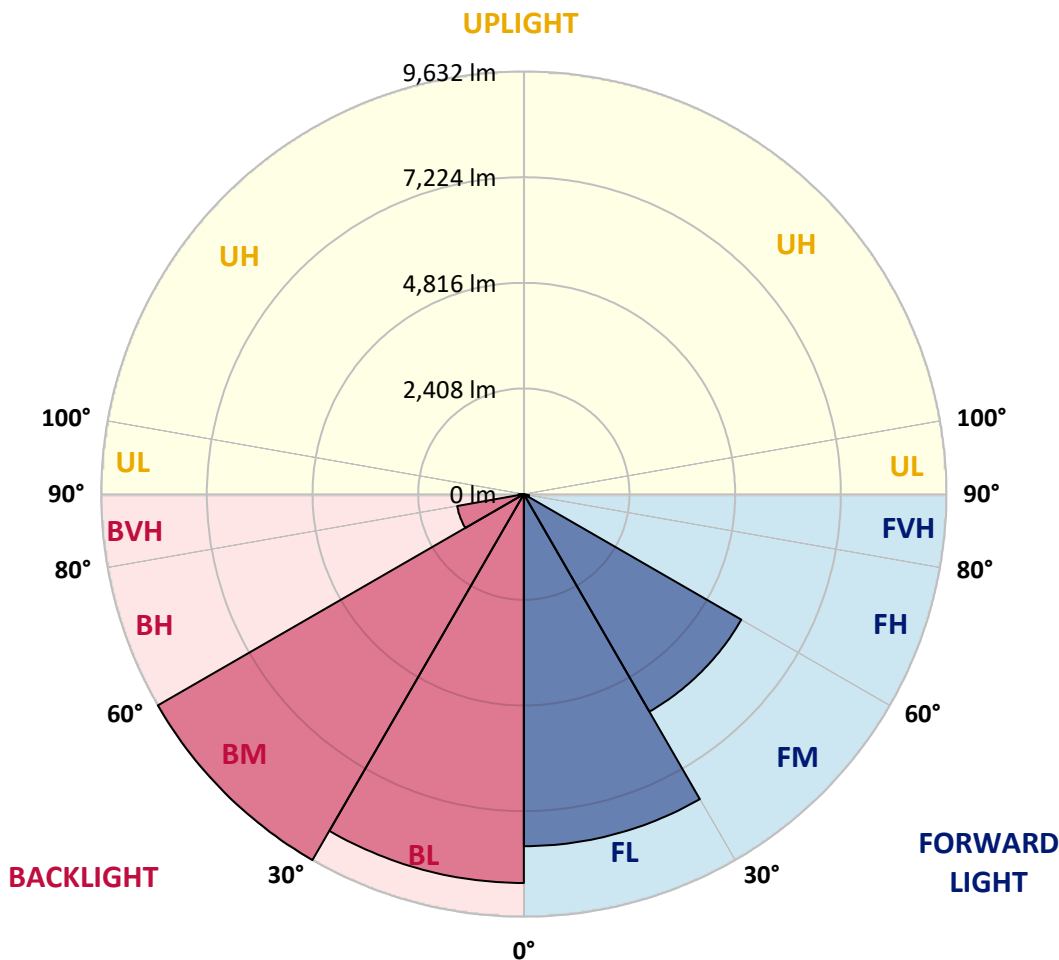
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8023.8	23.6			
FM (30°-60°)	5724.4	16.8			
FH (60°-80°)	119.9	0.4			G0/660
FVH (80°-90°)	10.4	0.0			G1/100
BL (0°-30°)	8863.8	26.0	B5		
BM (30°-60°)	9632.3	28.3	B5		
BH (60°-80°)	1542.6	4.5	B3/2500		G3/2500
BVH (80°-90°)	119.9	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°	25902.3	25902.3	25902.3	25902.3	25902.3	25902.3	25902.3	25902.3	25902.3	25902.3
2.5°	25854.3	25887.9	25705.7	25724.9	25758.5	26002.9	25940.6	25883.1	25801.6	25940.6
5°	25820.8	25839.9	25648.2	25581.1	25609.9	25830.4	25629.0	25629.0	25609.9	25585.9
7.5°	25561.9	25571.5	25422.9	25303.1	25379.8	25480.5	25331.9	25403.8	25298.3	25379.8
10°	25173.7	25111.4	24934.0	24900.5	24986.8	25082.6	24982.0	25049.1	24953.2	25015.5
12.5°	24603.3	24507.4	24363.6	24320.5	24469.1	24598.5	24517.0	24478.7	24354.1	24507.4
15°	22403.2	22331.3	22657.3	23227.7	23740.5	23850.8	23764.5	23802.8	23544.0	23587.2
17.5°	18439.3	18305.1	18655.0	20006.7	21933.5	22949.7	22873.0	22623.7	22240.3	22326.6
20°	16756.9	16718.6	16680.2	17001.4	18348.2	21430.2	21535.7	20903.0	20356.6	20236.7
22.5°	15807.9	15793.5	15755.1	15827.0	16181.7	18161.3	19369.2	18784.4	18420.1	18386.6
25°	14940.3	14916.3	14801.3	14892.4	14892.4	15007.4	16555.6	16910.3	16589.1	16550.8
27.5°	14058.3	14015.2	13996.0	14039.2	13818.7	13042.2	13435.2	15165.6	14997.8	15007.4
30°	13104.5	13090.1	13037.4	13128.5	12447.8	11484.4	11235.2	13583.8	13617.4	13607.8
32.5°	11685.7	11748.0	11987.7	12088.4	10966.8	10171.1	9754.1	11752.8	12438.3	12423.9
35°	8488.7	8488.7	9270.0	10722.3	9610.3	9011.1	8785.9	9965.0	11273.5	11321.5
37.5°	6978.8	7002.8	7156.2	7817.6	8292.2	8081.3	8014.2	8388.0	9778.1	9854.7
40°	6279.0	6279.0	6279.0	6005.8	5991.5	7280.8	7242.5	7122.6	8445.6	8613.3
42.5°	5641.6	5655.9	5665.5	4975.3	4591.9	6293.4	6207.1	6025.0	7252.1	7448.6
45°	4984.9	5008.9	5037.6	4160.5	3992.7	4529.5	5253.3	5052.0	6072.9	6327.0
47.5°	3043.7	3082.0	3733.9	3527.8	3546.9	3494.2	4285.1	4251.5	4980.1	5339.6
50°	2056.3	2070.6	2133.0	2238.4	3043.7	2746.5	3034.1	3518.2	3781.8	4328.2
52.5°	1725.5	1749.5	1596.1	1452.3	1998.7	2147.3	2118.6	2612.3	2717.7	3393.6
55°	1212.7	1289.4	1217.5	1203.1	1136.0	1668.0	1605.7	2008.3	2075.4	2578.7
57.5°	124.6	143.8	249.2	896.3	742.9	944.3	1145.6	1471.5	1538.6	1902.9
60°	9.6	9.6	24.0	124.6	541.6	565.6	790.9	905.9	1035.3	1327.7
62.5°	0.0	4.8	9.6	19.2	86.3	302.0	397.8	474.5	623.1	858.0
65°	0.0	0.0	4.8	14.4	19.2	115.0	153.4	249.2	340.3	532.0
67.5°	0.0	0.0	4.8	9.6	14.4	28.8	52.7	91.1	182.1	302.0
70°	0.0	0.0	4.8	9.6	14.4	24.0	38.3	57.5	81.5	163.0
72.5°	0.0	0.0	4.8	4.8	9.6	24.0	28.8	38.3	57.5	81.5
75°	0.0	0.0	4.8	4.8	14.4	28.8	24.0	28.8	38.3	52.7
77.5°	0.0	0.0	4.8	9.6	14.4	28.8	24.0	28.8	28.8	33.6
80°	0.0	0.0	4.8	9.6	19.2	33.6	28.8	28.8	24.0	24.0
82.5°	0.0	0.0	4.8	14.4	19.2	43.1	43.1	38.3	19.2	14.4
85°	0.0	0.0	9.6	19.2	28.8	47.9	47.9	38.3	14.4	9.6
87.5°	0.0	0.0	9.6	14.4	24.0	33.6	47.9	38.3	14.4	4.8
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°
25902.3	0°	25902.3	25902.3	25902.3	25902.3	25902.3	25902.3	25902.3	25902.3	25902.3
25820.8	2.5°	25950.2	25921.4	26017.3	26055.6	26108.4	25907.0	25782.4	25787.2	25557.1
25528.4	5°	25681.8	25686.6	25811.2	25801.6	25854.3	25744.1	25696.1	25614.7	25413.4
25159.3	7.5°	25341.5	25298.3	25418.1	25509.2	25375.0	25451.7	25341.5	25379.8	25260.0
24833.4	10°	25077.8	24977.2	25087.4	25149.7	25154.5	25077.8	24972.4	24871.7	24828.6
24325.3	12.5°	24493.1	24363.6	24550.6	24636.9	24622.5	24473.9	24354.1	24378.0	24239.0
23433.8	15°	23687.8	23692.6	23826.8	23908.3	23831.6	23798.1	23807.6	23750.1	23630.3
22201.9	17.5°	22456.0	22527.9	22882.6	23079.1	23122.2	23055.1	23021.6	22954.5	22834.6
20236.7	20°	20404.5	20835.9	21468.6	22077.3	22197.1	22178.0	22058.1	22029.4	21962.3
18290.7	22.5°	18602.3	18923.4	19656.8	20605.8	21094.7	21142.6	20998.8	20955.7	20883.8
16550.8	25°	16737.7	17082.8	17744.3	18774.8	19786.2	19992.3	19968.3	19838.9	19762.2
15007.4	27.5°	15165.6	15510.7	16109.8	17039.7	18123.0	18784.4	18846.7	18640.6	18635.8
13631.8	30°	13746.8	14221.3	14676.7	15434.0	16483.7	17475.9	17581.3	17437.5	17451.9
12371.2	32.5°	12634.8	13027.8	13416.1	13924.1	14796.5	15951.6	16363.9	16229.7	16176.9
11321.5	35°	11498.8	11767.2	12165.0	12630.0	13224.3	14369.9	15084.1	14983.4	14930.7
9902.7	37.5°	10204.6	10664.8	10952.4	11474.8	11939.8	12850.5	13857.0	13842.7	13732.4
8694.8	40°	8876.9	9361.0	9797.2	10324.5	10684.0	11407.7	12524.5	12519.7	12534.1
7443.8	42.5°	7673.9	8119.6	8646.9	9222.0	9567.2	10094.4	11292.7	11359.8	11441.3
6413.3	45°	6585.8	6988.4	7477.3	8177.1	8594.1	8896.1	9960.2	10267.0	10262.2
5493.0	47.5°	5608.0	5986.7	6398.9	7079.5	7611.5	7884.8	8766.7	9202.9	9174.1
4505.6	50°	4706.9	5042.4	5473.8	5967.5	6681.7	6921.3	7578.0	8153.2	8110.0
3590.1	52.5°	3786.6	4251.5	4615.8	5066.4	5818.9	6053.8	6561.8	7122.6	7089.1
2693.8	55°	2952.6	3403.1	3844.1	4232.4	4865.1	5215.0	5579.2	6154.4	6144.8
2109.0	57.5°	2233.6	2727.3	3144.3	3513.4	4016.7	4448.1	4740.4	5262.9	5330.0
1442.7	60°	1653.6	2032.3	2482.9	2895.1	3292.9	3738.7	3935.2	4448.1	4476.8
987.4	62.5°	1126.4	1543.4	1984.4	2358.2	2655.4	3115.6	3292.9	3714.7	3767.4
632.7	65°	781.3	1049.7	1553.0	1821.4	2185.7	2578.7	2756.1	3091.6	3197.0
364.3	67.5°	517.7	747.7	1212.7	1457.1	1816.6	2085.0	2310.3	2583.5	2698.6
230.1	70°	282.8	551.2	867.6	1150.4	1461.9	1720.7	1941.2	2161.7	2262.4
105.4	72.5°	191.7	369.1	603.9	910.7	1179.1	1433.2	1629.7	1792.6	1797.4
62.3	75°	95.9	249.2	460.1	704.6	920.3	1169.5	1346.9	1442.7	1327.7
38.3	77.5°	57.5	182.1	373.9	565.6	747.7	944.3	1044.9	1097.6	910.7
28.8	80°	33.6	129.4	292.4	450.6	517.7	695.0	790.9	805.3	608.7
19.2	82.5°	24.0	95.9	230.1	330.7	316.3	488.9	594.4	575.2	388.2
14.4	85°	14.4	67.1	143.8	206.1	191.7	321.1	345.1	354.7	225.3
9.6	87.5°	9.6	38.3	76.7	110.2	91.1	139.0	139.0	167.8	110.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
25902.3
25260.0
25365.4
25058.7
24636.9
24119.2
23510.5
22781.9
21808.9
20864.6
19680.7
18626.2
17380.0
16181.7
14858.8
13823.5
12534.1
11398.1
10271.7
9183.7
8148.4
7161.0
6168.8
5301.2
4520.0
3777.0
3173.1
2684.2
2224.0
1754.3
1241.4
877.1
570.4
359.5
206.1
95.9
0.0

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