

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: P638200

Luminaire Tested: **IFLD-S-SA6D-750-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638200
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-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: 35973.9 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

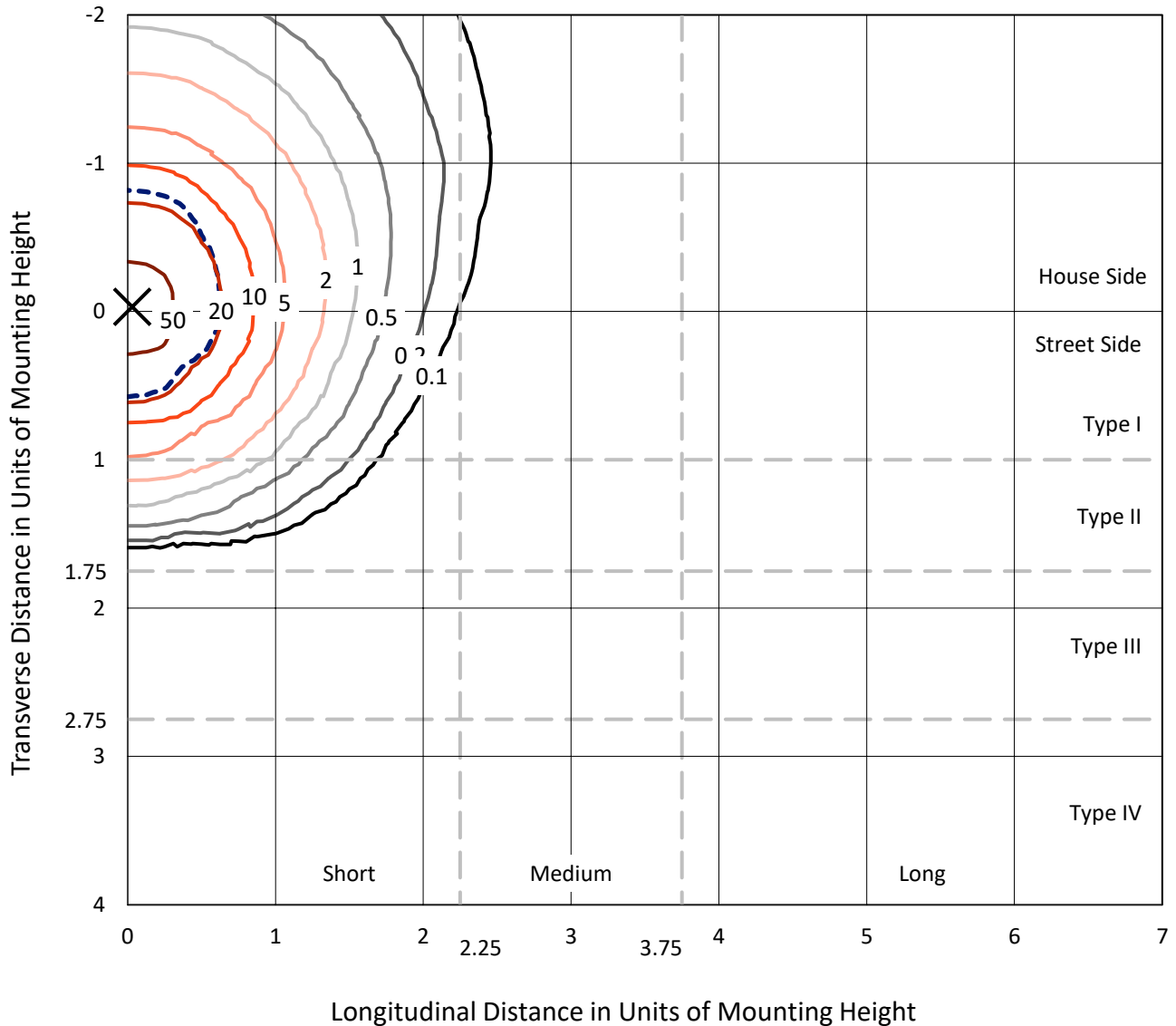
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

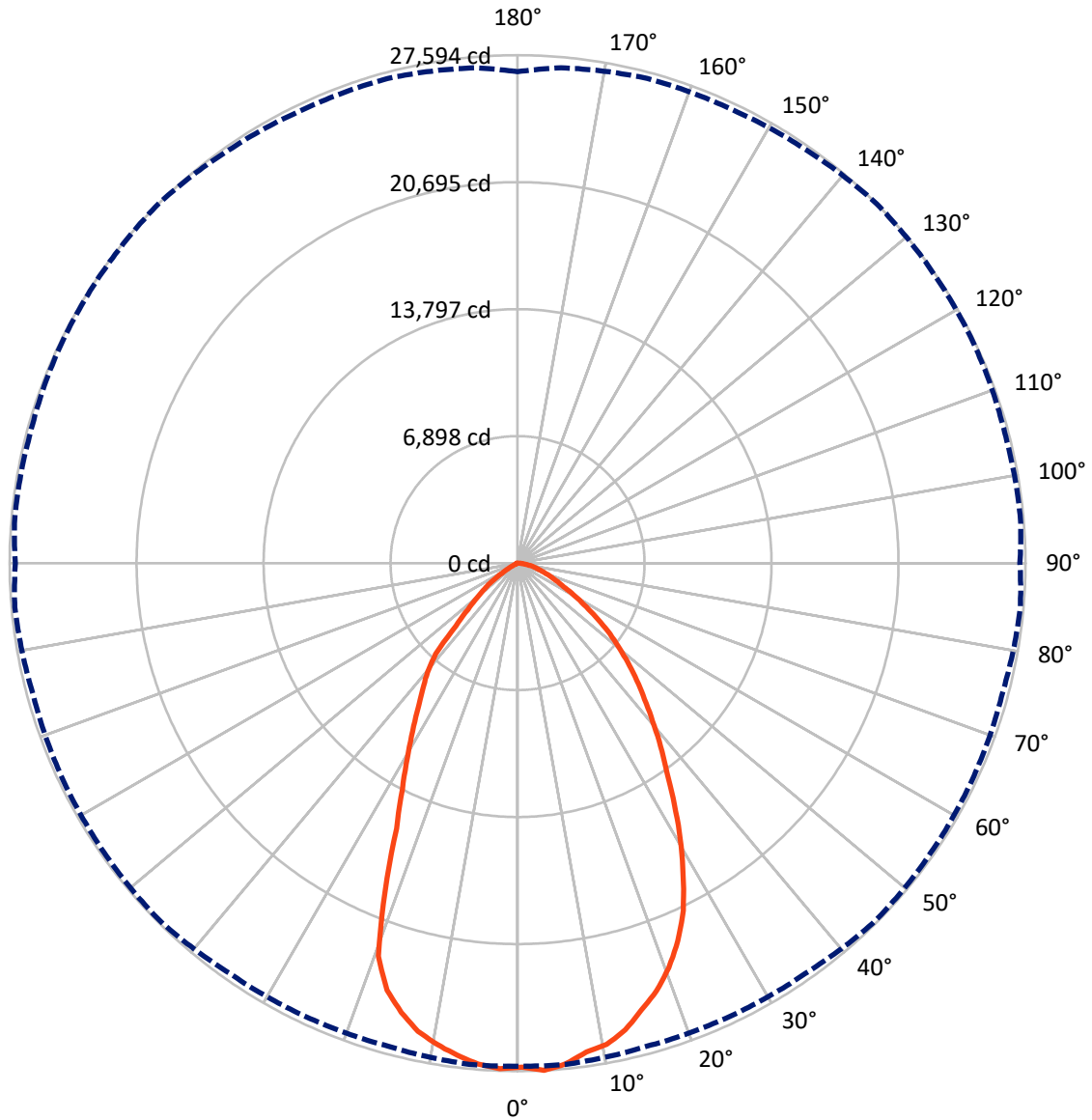
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 68.4 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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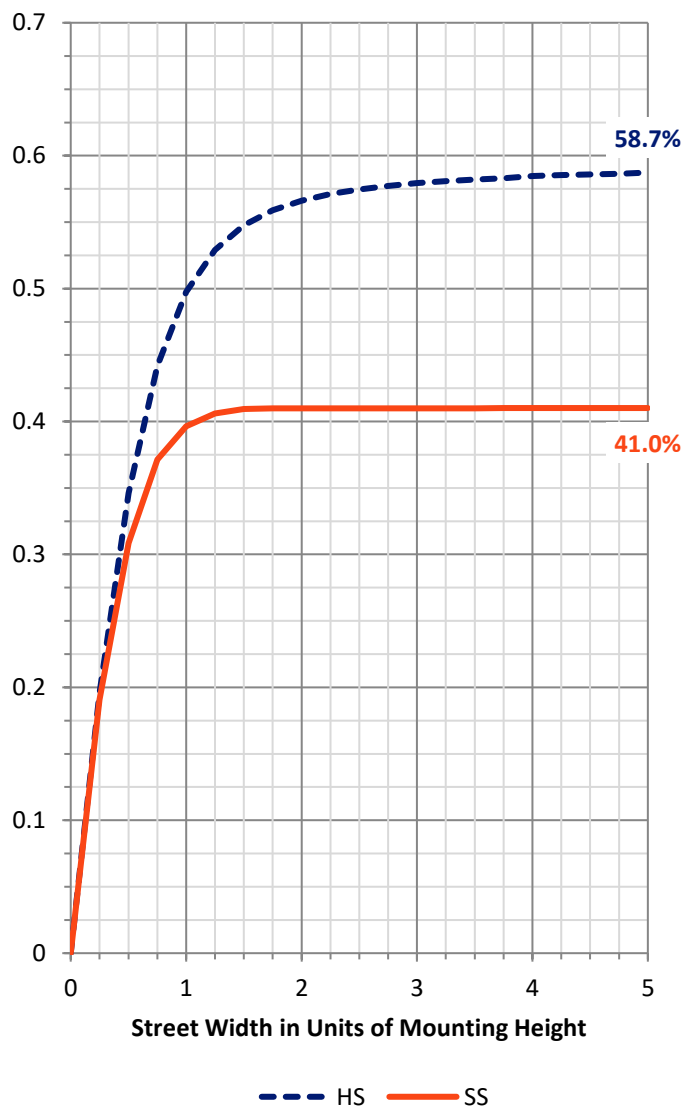
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21305.6	0.0	21305.6
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	14668.3	0.0	14668.3
	% Fixture	40.8	0.0	40.8
Total	Lumens	35973.9	0.0	35973.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2567.4	7.1
10°-20°	6884.7	19.1
20°-30°	8396.3	23.3
30°-40°	7665.8	21.3
40°-50°	5539.9	15.4
50°-60°	3024.8	8.4
60°-70°	1250.7	3.5
70°-80°	506.5	1.4
80°-90°	137.8	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°	35973.9	100.0
0°-180°	35973.9	100.0



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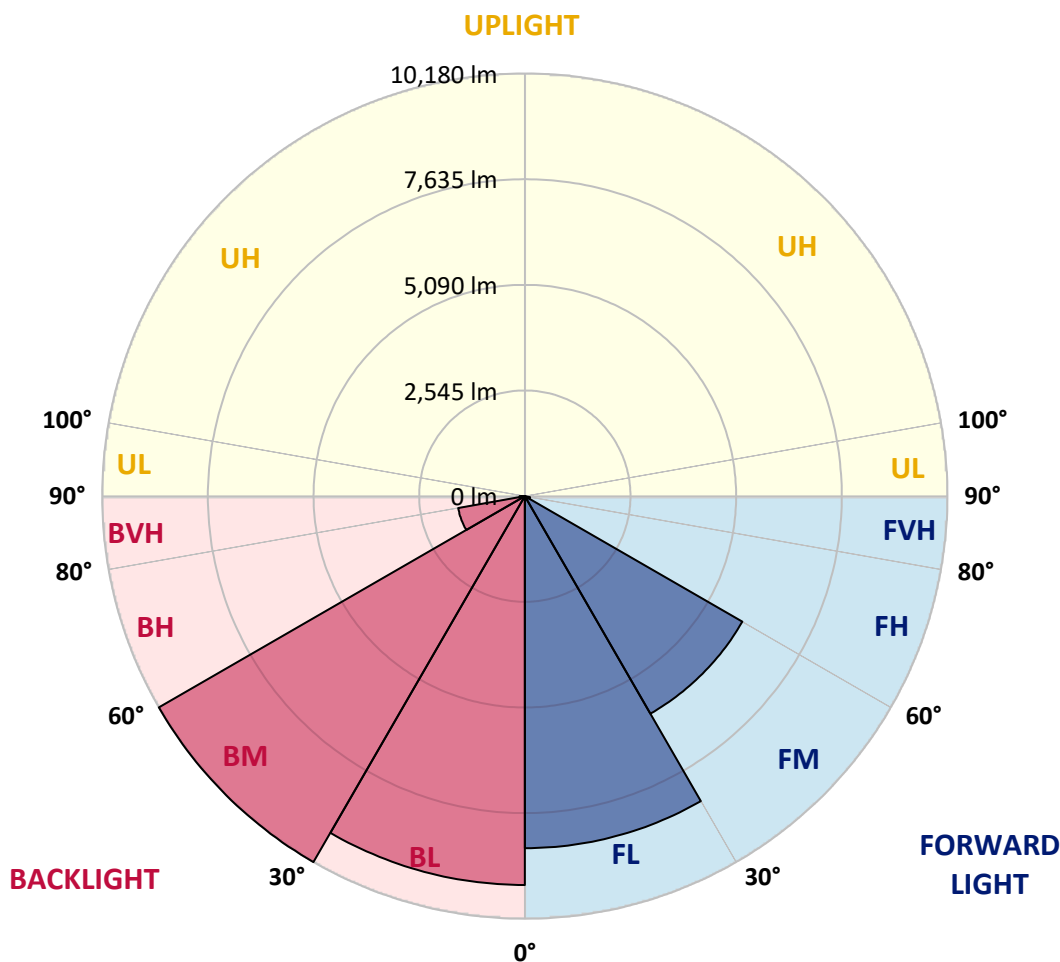
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8480.4	23.6			
FM (30°-60°)	6050.1	16.8			
FH (60°-80°)	126.8	0.4			G0/660
FVH (80°-90°)	11.0	0.0			G1/100
BL (0°-30°)	9368.1	26.0	B5		
BM (30°-60°)	10180.3	28.3	B5		
BH (60°-80°)	1630.4	4.5	B3/2500		G3/2500
BVH (80°-90°)	126.7	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°	27376.0	27376.0	27376.0	27376.0	27376.0	27376.0	27376.0	27376.0	27376.0	27376.0
2.5°	27325.4	27360.8	27168.3	27188.6	27224.0	27482.4	27416.5	27355.7	27269.6	27416.5
5°	27289.9	27310.2	27107.5	27036.6	27067.0	27300.0	27087.3	27087.3	27067.0	27041.7
7.5°	27016.3	27026.5	26869.4	26742.8	26823.8	26930.2	26773.2	26849.2	26737.7	26823.8
10°	26606.0	26540.1	26352.7	26317.2	26408.4	26509.7	26403.4	26474.3	26373.0	26438.8
12.5°	26003.2	25901.8	25749.9	25704.3	25861.3	25998.1	25912.0	25871.4	25739.7	25901.8
15°	23677.9	23601.9	23946.4	24549.2	25091.3	25207.8	25116.6	25157.2	24883.6	24929.2
17.5°	19488.4	19346.6	19716.4	21145.0	23181.5	24255.4	24174.4	23910.9	23505.7	23596.9
20°	17710.3	17669.8	17629.3	17968.7	19392.2	22649.5	22761.0	22092.3	21514.8	21388.1
22.5°	16707.3	16692.1	16651.5	16727.5	17102.4	19194.6	20471.2	19853.2	19468.2	19432.7
25°	15790.3	15765.0	15643.4	15739.7	15739.7	15861.3	17497.5	17872.4	17533.0	17492.5
27.5°	14858.2	14812.6	14792.4	14838.0	14604.9	13784.3	14199.7	16028.4	15851.1	15861.3
30°	13850.1	13834.9	13779.2	13875.4	13156.1	12137.8	11874.4	14356.7	14392.2	14382.0
32.5°	12350.6	12416.5	12669.8	12776.1	11590.7	10749.8	10309.1	12421.5	13146.0	13130.8
35°	8971.7	8971.7	9797.4	11332.4	10157.1	9523.9	9285.8	10532.0	11914.9	11965.6
37.5°	7375.9	7401.2	7563.4	8262.4	8764.0	8541.1	8470.1	8865.3	10334.4	10415.4
40°	6636.3	6636.3	6636.3	6347.5	6332.3	7695.1	7654.5	7527.9	8926.1	9103.4
42.5°	5962.5	5977.7	5987.9	5258.4	4853.1	6651.5	6560.3	6367.8	7664.7	7872.4
45°	5268.5	5293.8	5324.2	4397.2	4219.9	4787.3	5552.2	5339.4	6418.5	6687.0
47.5°	3216.8	3257.4	3946.3	3728.5	3748.8	3693.0	4528.9	4493.4	5263.4	5643.4
50°	2173.3	2188.5	2254.3	2365.8	3216.8	2902.7	3206.7	3718.4	3997.0	4574.5
52.5°	1823.7	1849.0	1686.9	1535.0	2112.5	2269.5	2239.1	2760.9	2872.4	3586.6
55°	1281.7	1362.7	1286.7	1271.5	1200.6	1762.9	1697.1	2122.6	2193.5	2725.4
57.5°	131.7	152.0	263.4	947.3	785.2	998.0	1210.7	1555.2	1626.1	2011.2
60°	10.1	10.1	25.3	131.7	572.4	597.8	835.9	957.5	1094.2	1403.2
62.5°	0.0	5.1	10.1	20.3	91.2	319.2	420.5	501.5	658.6	906.8
65°	0.0	0.0	5.1	15.2	20.3	121.6	162.1	263.4	359.7	562.3
67.5°	0.0	0.0	5.1	10.1	15.2	30.4	55.7	96.3	192.5	319.2
70°	0.0	0.0	5.1	10.1	15.2	25.3	40.5	60.8	86.1	172.2
72.5°	0.0	0.0	5.1	5.1	10.1	25.3	30.4	40.5	60.8	86.1
75°	0.0	0.0	5.1	5.1	15.2	30.4	25.3	30.4	40.5	55.7
77.5°	0.0	0.0	5.1	10.1	15.2	30.4	25.3	30.4	30.4	35.5
80°	0.0	0.0	5.1	10.1	20.3	35.5	30.4	30.4	25.3	25.3
82.5°	0.0	0.0	5.1	15.2	20.3	45.6	45.6	40.5	20.3	15.2
85°	0.0	0.0	10.1	20.3	30.4	50.7	50.7	40.5	15.2	10.1
87.5°	0.0	0.0	10.1	15.2	25.3	35.5	50.7	40.5	15.2	5.1
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°
27376.0	0°	27376.0	27376.0	27376.0	27376.0	27376.0	27376.0	27376.0	27376.0	27376.0
27289.9	2.5°	27426.7	27396.3	27497.6	27538.1	27593.8	27381.1	27249.4	27254.4	27011.3
26980.9	5°	27143.0	27148.0	27279.8	27269.6	27325.4	27208.8	27158.2	27072.1	26859.3
26590.8	7.5°	26783.3	26737.7	26864.4	26960.6	26818.8	26899.8	26783.3	26823.8	26697.2
26246.3	10°	26504.7	26398.3	26514.8	26580.7	26585.7	26504.7	26393.2	26286.8	26241.3
25709.3	12.5°	25886.6	25749.9	25947.4	26038.6	26023.4	25866.4	25739.7	25765.1	25618.2
24767.1	15°	25035.6	25040.6	25182.5	25268.6	25187.6	25152.1	25162.2	25101.4	24974.8
23465.2	17.5°	23733.6	23809.6	24184.5	24392.2	24437.8	24366.9	24331.4	24260.5	24133.8
21388.1	20°	21565.4	22021.4	22690.1	23333.4	23460.1	23439.8	23313.2	23282.8	23211.9
19331.4	22.5°	19660.7	20000.1	20775.2	21778.2	22294.9	22345.6	22193.6	22148.0	22072.0
17492.5	25°	17690.0	18054.8	18753.9	19843.0	20911.9	21129.8	21104.5	20967.7	20886.6
15861.3	27.5°	16028.4	16393.2	17026.4	18009.2	19154.1	19853.2	19919.0	19701.2	19696.1
14407.4	30°	14528.9	15030.5	15511.7	16312.1	17421.6	18470.2	18581.6	18429.7	18444.9
13075.0	32.5°	13353.7	13769.1	14179.4	14716.4	15638.4	16859.2	17294.9	17153.1	17097.3
11965.6	35°	12153.0	12436.7	12857.2	13348.6	13976.8	15187.5	15942.3	15835.9	15780.2
10466.1	37.5°	10785.3	11271.6	11575.5	12127.7	12619.1	13581.6	14645.5	14630.3	14513.7
9189.5	40°	9382.0	9893.7	10354.7	10911.9	11291.8	12056.8	13237.1	13232.1	13247.3
7867.3	42.5°	8110.5	8581.6	9138.8	9746.8	10111.5	10668.7	11935.2	12006.1	12092.3
6778.1	45°	6960.5	7386.1	7902.8	8642.4	9083.1	9402.3	10526.9	10851.1	10846.0
5805.5	47.5°	5927.1	6327.3	6762.9	7482.3	8044.6	8333.4	9265.5	9726.5	9696.1
4761.9	50°	4974.7	5329.3	5785.2	6307.0	7061.8	7315.1	8009.2	8617.1	8571.5
3794.3	52.5°	4002.0	4493.4	4878.4	5354.6	6150.0	6398.2	6935.2	7527.9	7492.4
2847.0	55°	3120.6	3596.8	4062.8	4473.2	5141.9	5511.7	5896.7	6504.6	6494.5
2229.0	57.5°	2360.7	2882.5	3323.2	3713.3	4245.2	4701.1	5010.2	5562.3	5633.3
1524.8	60°	1747.7	2147.9	2624.1	3059.8	3480.3	3951.4	4159.1	4701.1	4731.5
1043.6	62.5°	1190.5	1631.2	2097.3	2492.4	2806.5	3292.8	3480.3	3926.1	3981.8
668.7	65°	825.7	1109.4	1641.3	1925.0	2310.0	2725.4	2912.9	3267.5	3378.9
385.0	67.5°	547.1	790.3	1281.7	1540.0	1920.0	2203.7	2441.8	2730.5	2852.1
243.2	70°	298.9	582.6	916.9	1215.8	1545.1	1818.7	2051.7	2284.7	2391.1
111.4	72.5°	202.6	390.1	638.3	962.5	1246.2	1514.7	1722.4	1894.6	1899.7
65.9	75°	101.3	263.4	486.3	744.7	972.6	1236.1	1423.5	1524.8	1403.2
40.5	77.5°	60.8	192.5	395.1	597.8	790.3	998.0	1104.4	1160.1	962.5
30.4	80°	35.5	136.8	309.0	476.2	547.1	734.6	835.9	851.1	643.4
20.3	82.5°	25.3	101.3	243.2	349.5	334.3	516.7	628.2	607.9	410.3
15.2	85°	15.2	70.9	152.0	217.8	202.6	339.4	364.7	374.9	238.1
10.1	87.5°	10.1	40.5	81.1	116.5	96.3	146.9	146.9	177.3	116.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
27376.0
26697.2
26808.6
26484.4
26038.6
25491.5
24848.1
24078.1
23049.7
22051.8
20800.5
19686.0
18368.9
17102.4
15704.2
14610.0
13247.3
12046.7
10856.2
9706.2
8612.0
7568.4
6519.8
5602.9
4777.1
3991.9
3353.6
2836.9
2350.6
1854.1
1312.1
927.1
602.8
379.9
217.8
101.3
0.0

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