

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: P637681

Luminaire Tested: **IFLD-M-SA4B-750-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637681
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-750-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21945.3 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 166.1
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



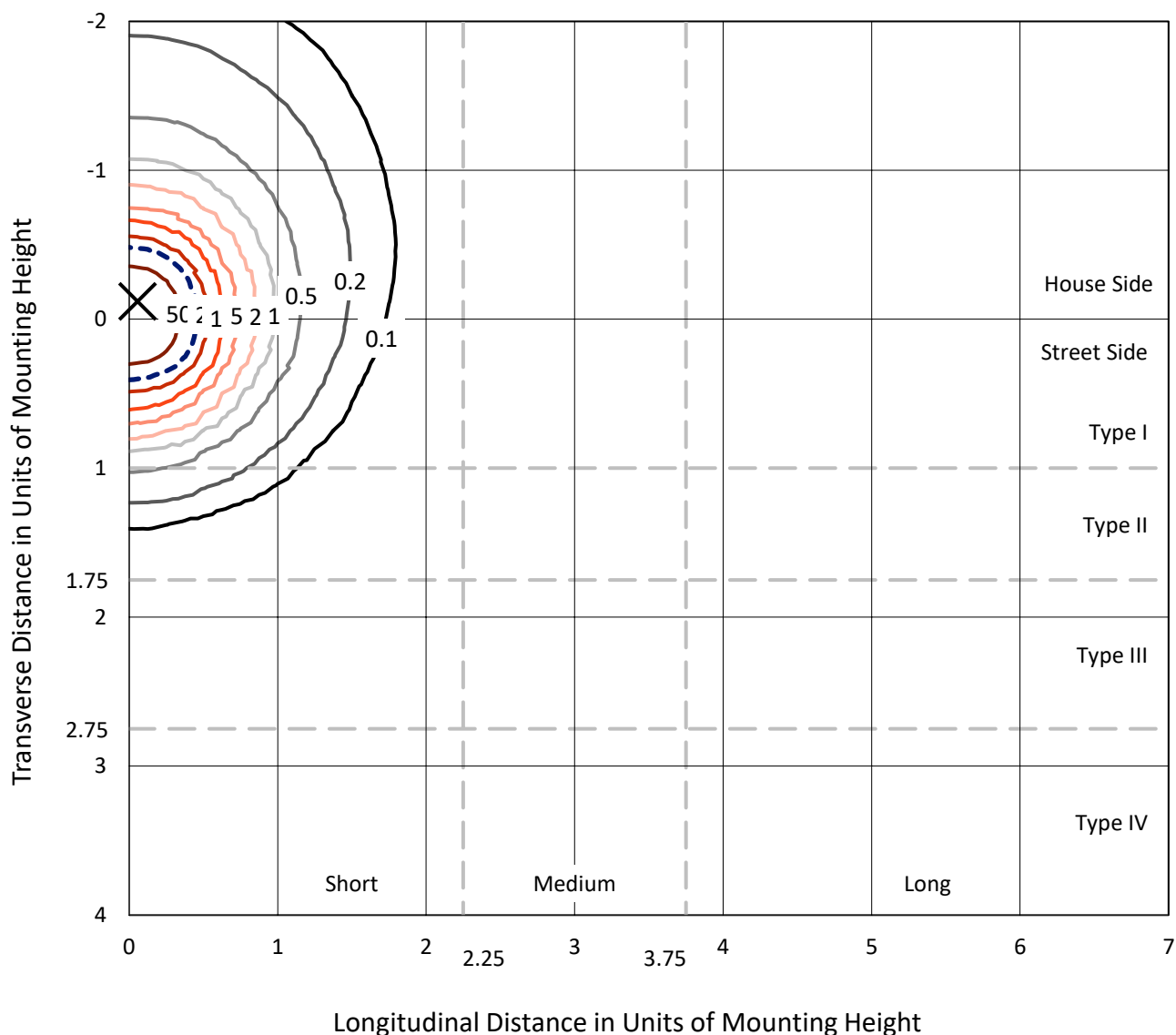
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

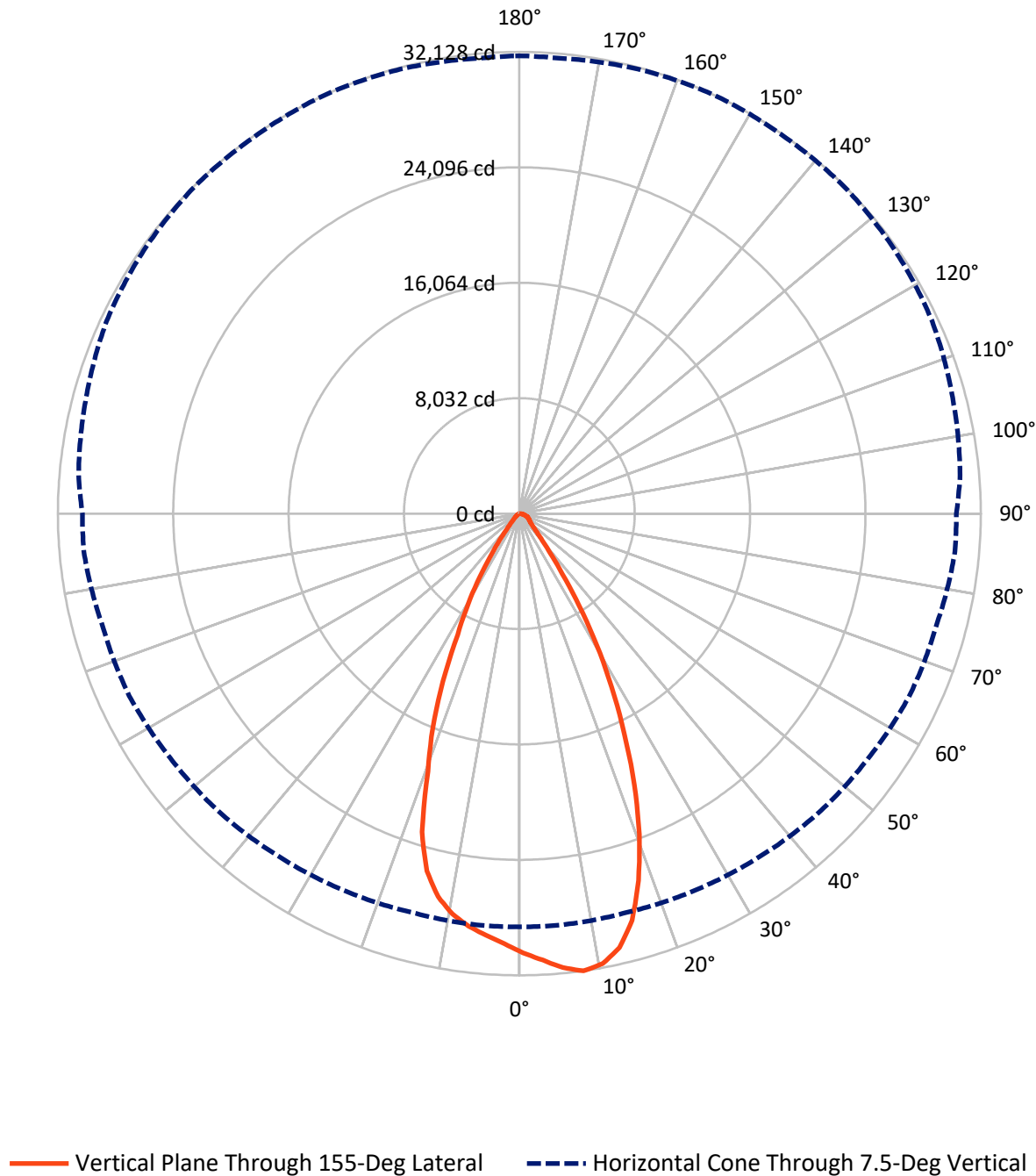


Based on 20 foot mounting height. Maximum calculated value = 77.7 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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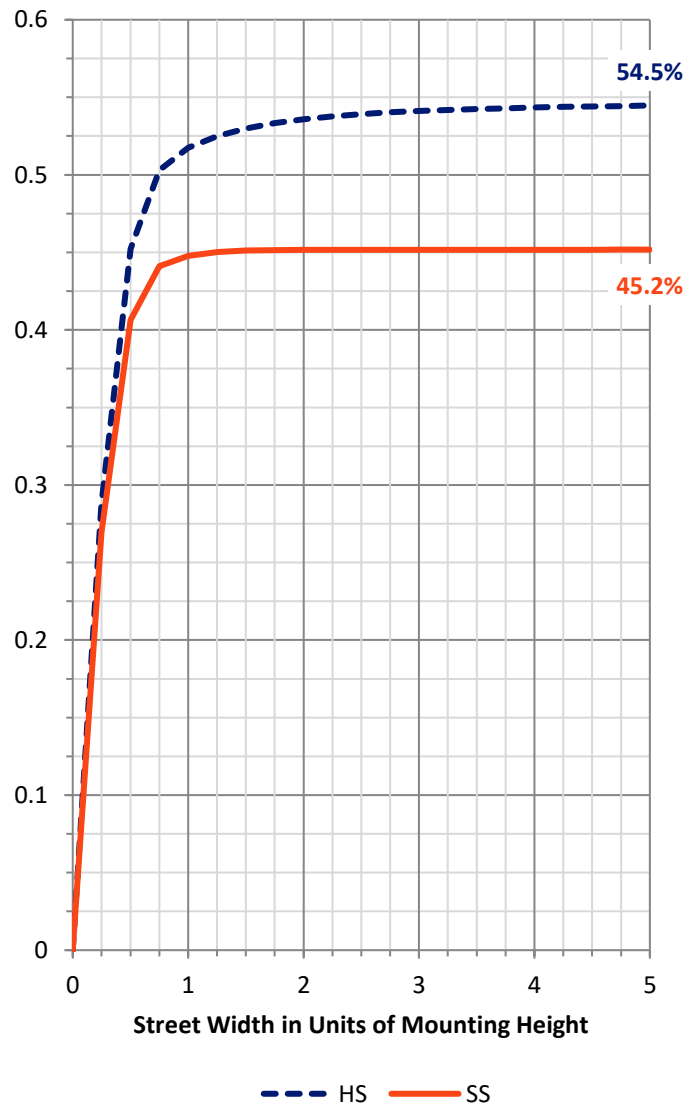
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12114.6	0.0	12114.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	9830.7	0.0	9830.7
	% Fixture	44.8	0.0	44.8
Total	Lumens	21945.3	0.0	21945.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2915.2	13.3
10°-20°	7559.1	34.4
20°-30°	6926.3	31.6
30°-40°	2798.2	12.8
40°-50°	820.9	3.7
50°-60°	459.0	2.1
60°-70°	278.8	1.3
70°-80°	141.6	0.6
80°-90°	46.3	0.2
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°	21945.3	100.0
0°-180°	21945.3	100.0

Coefficient of Utilization



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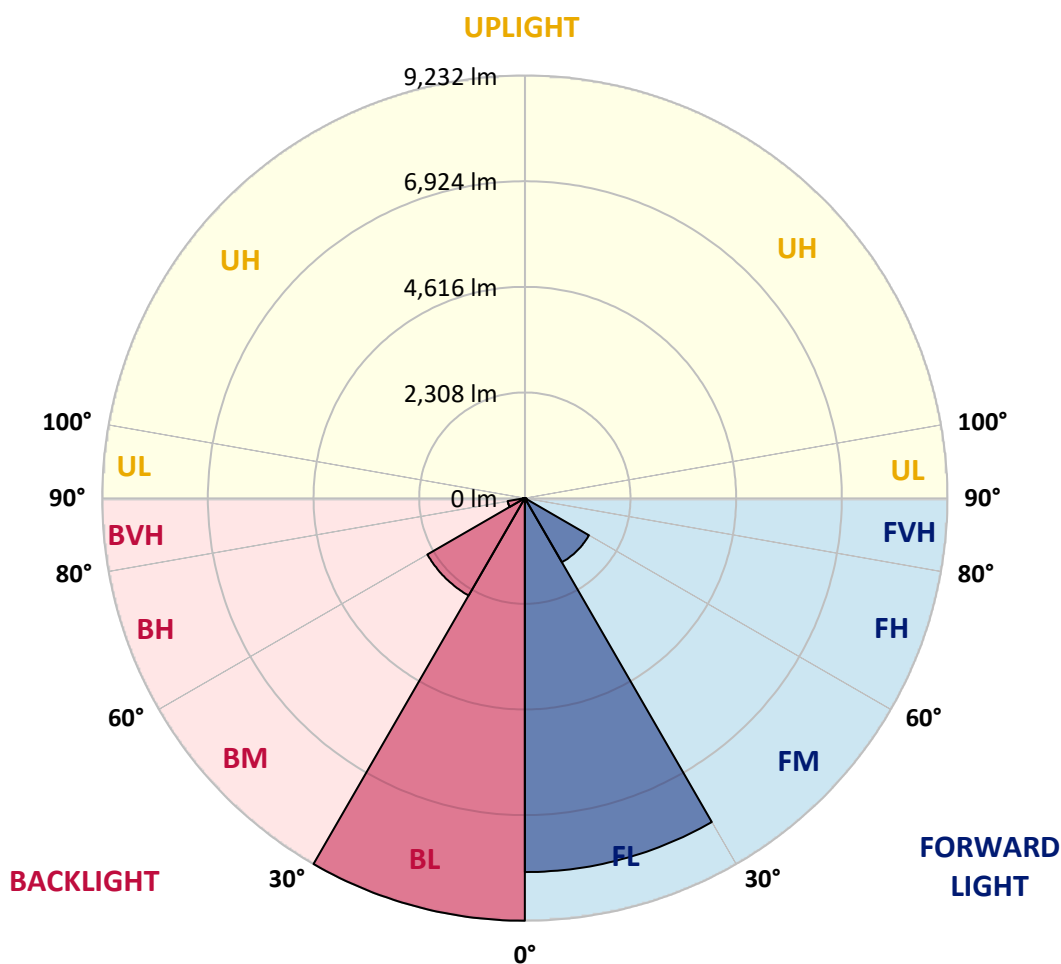
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8168.6	37.2			
FM	(30°-60°)	1618.9	7.4			
FH	(60°-80°)	39.2	0.2			G0/660
FVH	(80°-90°)	4.0	0.0			G0/10
BL	(0°-30°)	9232.0	42.1	B5		
BM	(30°-60°)	2459.2	11.2	B2/2500		
BH	(60°-80°)	381.2	1.7	B1/500		G1/500
BVH	(80°-90°)	42.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	30571.6	30571.6	30571.6	30571.6	30571.6	30571.6	30571.6	30571.6	30571.6	30571.6
2.5°	29908.5	30009.8	29807.3	29941.4	30045.2	30293.2	30313.4	30399.5	30429.8	30655.1
5°	29341.7	29420.2	29255.7	29435.3	29582.1	29802.3	29971.8	30209.7	30341.3	30607.0
7.5°	28752.1	28769.8	28736.9	28926.7	29146.9	29450.5	29660.6	29971.8	30052.8	30432.4
10°	28038.5	27909.4	27972.7	28251.0	28580.0	29045.6	29189.9	29501.1	29645.4	30032.5
12.5°	26899.7	26965.5	26887.1	27241.4	27514.7	28043.5	28195.4	28509.2	28785.0	29126.6
15°	25295.4	25257.4	25416.8	25692.7	25988.7	26408.8	26654.3	26995.9	27205.9	27560.2
17.5°	21689.3	21818.4	22476.3	23167.2	23774.5	24265.4	24559.0	24842.4	24994.2	25378.9
20°	18731.1	18569.2	18657.7	19047.4	20775.8	21527.4	21836.1	21904.4	21967.7	22271.4
22.5°	15423.7	15370.5	15666.6	16104.4	16514.4	18247.8	18667.9	18508.4	18640.0	18926.0
25°	11453.3	11721.5	11984.7	12824.8	13356.2	14206.5	15003.6	15074.5	15122.6	15302.2
27.5°	9322.5	9228.9	9223.8	9459.2	10243.7	10952.2	11630.4	11787.3	11759.5	11931.5
30°	7328.5	7298.1	7191.8	7247.5	7169.0	7799.1	8118.0	8763.3	8727.9	8732.9
32.5°	5286.3	5172.4	5129.4	5212.9	5132.0	5073.7	5352.1	6080.9	6068.3	6118.9
35°	3198.6	3183.4	3218.9	3292.2	3130.3	3125.2	3183.4	3869.2	3952.7	4033.7
37.5°	1766.3	1751.1	1779.0	2049.7	1996.6	1948.5	1963.7	2325.6	2566.0	2626.7
40°	1164.1	1161.5	1181.8	1229.8	1320.9	1303.2	1310.8	1472.8	1700.5	1753.7
42.5°	779.4	781.9	794.6	850.3	862.9	954.0	938.8	976.8	1189.4	1234.9
45°	622.5	620.0	627.6	602.3	617.5	711.1	721.2	723.7	905.9	933.8
47.5°	490.9	490.9	498.5	465.6	458.0	516.2	569.4	577.0	723.7	761.7
50°	344.2	344.2	382.1	366.9	384.6	402.4	460.6	468.2	592.1	632.6
52.5°	253.1	258.1	263.2	265.7	323.9	321.4	372.0	407.4	447.9	518.8
55°	192.3	197.4	184.7	197.4	240.4	268.2	278.4	329.0	356.8	435.3
57.5°	126.5	139.2	129.1	151.8	162.0	207.5	222.7	270.8	288.5	356.8
60°	17.7	20.2	32.9	106.3	113.9	136.6	172.1	215.1	232.8	291.0
62.5°	2.5	2.5	7.6	17.7	75.9	91.1	129.1	149.3	172.1	217.6
65°	0.0	0.0	2.5	5.1	15.2	53.1	65.8	81.0	118.9	156.9
67.5°	0.0	0.0	2.5	5.1	7.6	17.7	27.8	53.1	68.3	108.8
70°	0.0	0.0	2.5	5.1	7.6	10.1	15.2	20.2	40.5	63.3
72.5°	0.0	0.0	2.5	5.1	7.6	10.1	12.7	15.2	17.7	40.5
75°	0.0	0.0	2.5	5.1	7.6	12.7	15.2	15.2	15.2	17.7
77.5°	0.0	0.0	2.5	5.1	10.1	15.2	17.7	15.2	12.7	12.7
80°	0.0	0.0	2.5	7.6	12.7	17.7	20.2	15.2	10.1	7.6
82.5°	0.0	0.0	2.5	7.6	12.7	17.7	20.2	17.7	10.1	7.6
85°	0.0	0.0	2.5	7.6	10.1	12.7	20.2	17.7	10.1	5.1
87.5°	0.0	0.0	0.0	2.5	2.5	5.1	10.1	7.6	5.1	2.5
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°
30571.6	0°	30571.6	30571.6	30571.6	30571.6	30571.6	30571.6	30571.6	30571.6	30571.6
30650.0	2.5°	30877.7	30991.6	31191.5	31247.2	31419.3	31221.9	31113.1	31123.2	30887.9
30574.1	5°	30877.7	31138.4	31487.6	31654.6	31781.2	31771.0	31743.2	31672.3	31500.3
30422.3	7.5°	30796.8	31221.9	31702.7	31925.4	32077.2	32064.6	32127.8	32014.0	31803.9
30151.5	10°	30536.1	30905.6	31497.7	31679.9	31925.4	31930.5	31852.0	31874.8	31500.3
29162.0	12.5°	29716.2	30004.7	30523.5	30731.0	31029.6	31077.7	30991.6	30958.7	30604.5
27540.0	15°	28129.6	28296.6	28817.9	29025.4	29321.5	29281.0	29367.0	29331.6	29020.3
25348.5	17.5°	25809.1	25862.2	26408.8	26583.4	26861.8	26970.6	26841.5	27006.0	26737.8
22324.5	20°	22481.4	22767.3	23382.3	23650.5	23812.5	24007.3	23837.8	24022.5	23708.7
18655.2	22.5°	19105.6	19275.2	19831.9	20219.1	20520.2	20558.2	20494.9	20624.0	20201.4
15421.2	25°	15418.6	15699.5	16139.8	16645.9	16942.0	17124.2	16959.7	17043.2	16974.9
11959.4	27.5°	12161.8	12412.3	12743.8	13120.9	13566.3	13804.1	13672.6	13814.3	13480.2
8917.7	30°	8925.2	9051.8	9426.3	9826.1	10314.5	10603.0	10615.6	10759.9	10562.5
6247.9	32.5°	6293.5	6404.8	6635.1	6900.8	7366.4	7687.8	7637.2	7657.4	7536.0
4071.7	35°	4091.9	4241.2	4405.7	4532.2	4813.1	5167.4	5139.5	5114.2	5030.7
2677.3	37.5°	2735.5	2793.7	2884.8	2998.7	3180.9	3403.6	3477.0	3385.9	3350.4
1806.8	40°	1849.8	1951.1	2011.8	2097.8	2183.9	2371.1	2421.7	2404.0	2368.6
1265.3	42.5°	1313.4	1391.8	1467.7	1551.2	1596.8	1713.2	1811.9	1784.0	1768.9
961.6	45°	997.0	1067.9	1156.5	1219.7	1265.3	1333.6	1427.2	1437.4	1414.6
771.8	47.5°	799.7	862.9	933.8	1012.2	1065.4	1108.4	1189.4	1219.7	1204.5
650.4	50°	678.2	726.3	794.6	873.0	931.2	969.2	1040.1	1073.0	1062.8
544.1	52.5°	577.0	635.2	698.4	764.2	835.1	873.0	938.8	986.9	979.3
450.4	55°	478.3	554.2	620.0	685.8	766.8	804.7	862.9	926.2	913.5
382.1	57.5°	417.5	480.8	549.1	612.4	698.4	749.0	802.2	868.0	865.4
313.8	60°	349.2	412.5	488.4	541.5	632.6	703.5	751.6	819.9	825.0
237.9	62.5°	278.4	356.8	415.0	488.4	571.9	655.4	701.0	769.3	794.6
182.2	65°	207.5	293.5	359.3	432.7	511.2	604.8	645.3	713.6	738.9
131.6	67.5°	154.4	220.2	303.7	366.9	455.5	536.5	584.6	647.8	665.5
78.4	70°	116.4	169.5	253.1	308.7	399.8	465.6	513.7	561.8	584.6
53.1	72.5°	68.3	126.5	199.9	265.7	344.2	399.8	435.3	473.2	488.4
25.3	75°	48.1	96.2	156.9	220.2	278.4	323.9	356.8	389.7	404.9
12.7	77.5°	25.3	70.9	124.0	177.1	217.6	255.6	288.5	313.8	323.9
10.1	80°	15.2	50.6	101.2	139.2	167.0	199.9	232.8	250.5	248.0
7.6	82.5°	10.1	40.5	73.4	101.2	121.5	146.8	169.5	182.2	182.2
5.1	85°	7.6	27.8	50.6	78.4	81.0	101.2	106.3	118.9	121.5
5.1	87.5°	5.1	17.7	27.8	45.5	43.0	53.1	55.7	63.3	68.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
30571.6
30698.1
31555.9
31852.0
31391.5
30523.5
29119.0
26672.0
23683.4
20143.2
16931.9
13566.3
10597.9
7604.3
4957.3
3342.9
2373.7
1756.2
1412.0
1196.9
1060.3
974.3
913.5
862.9
825.0
792.1
736.4
665.5
579.5
483.3
399.8
321.4
245.5
179.7
118.9
65.8
0.0

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