

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: P637654

Luminaire Tested: **IFLD-M-SA4D-740-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637654
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-740-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29386.3 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 249.7
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



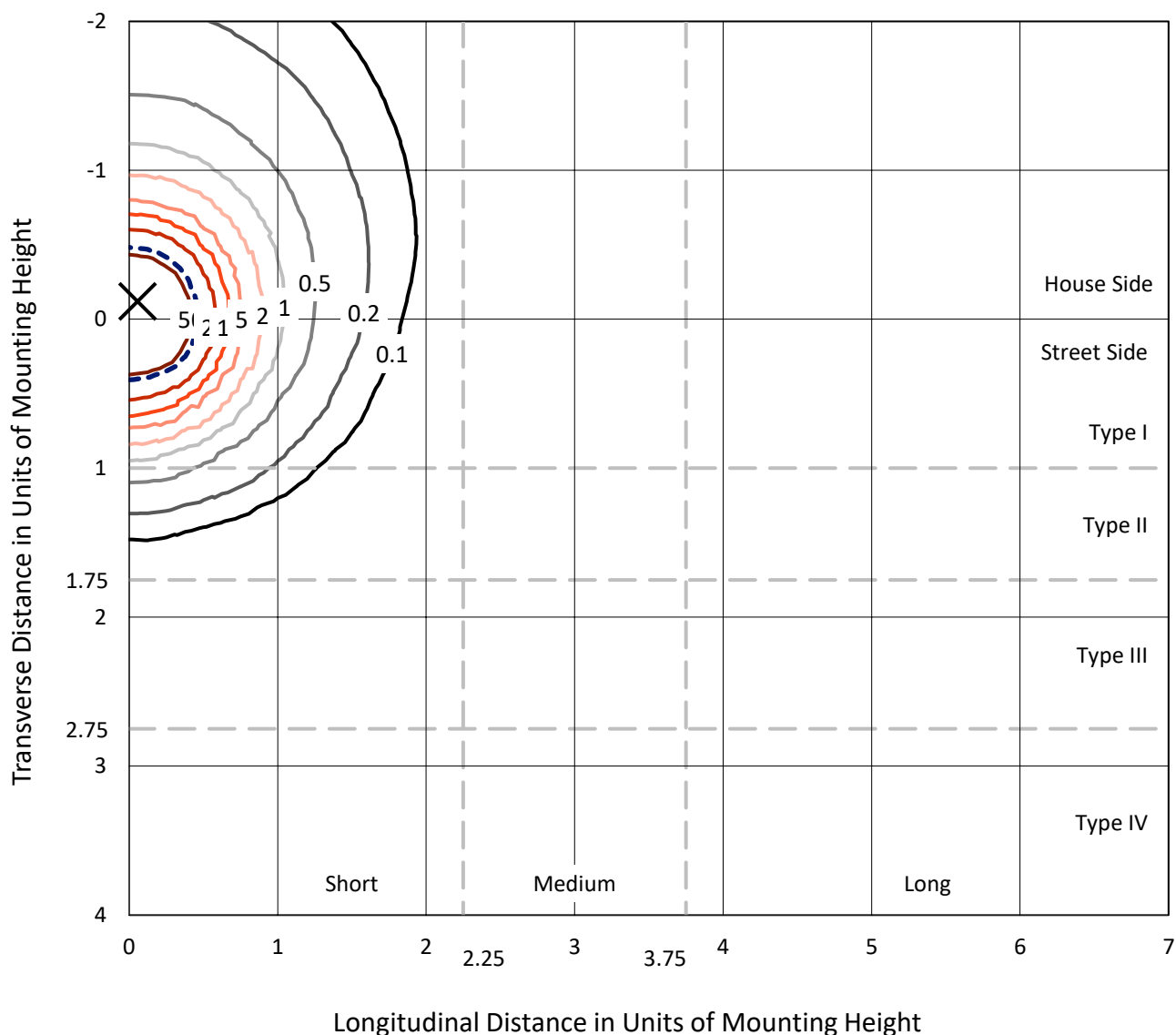
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

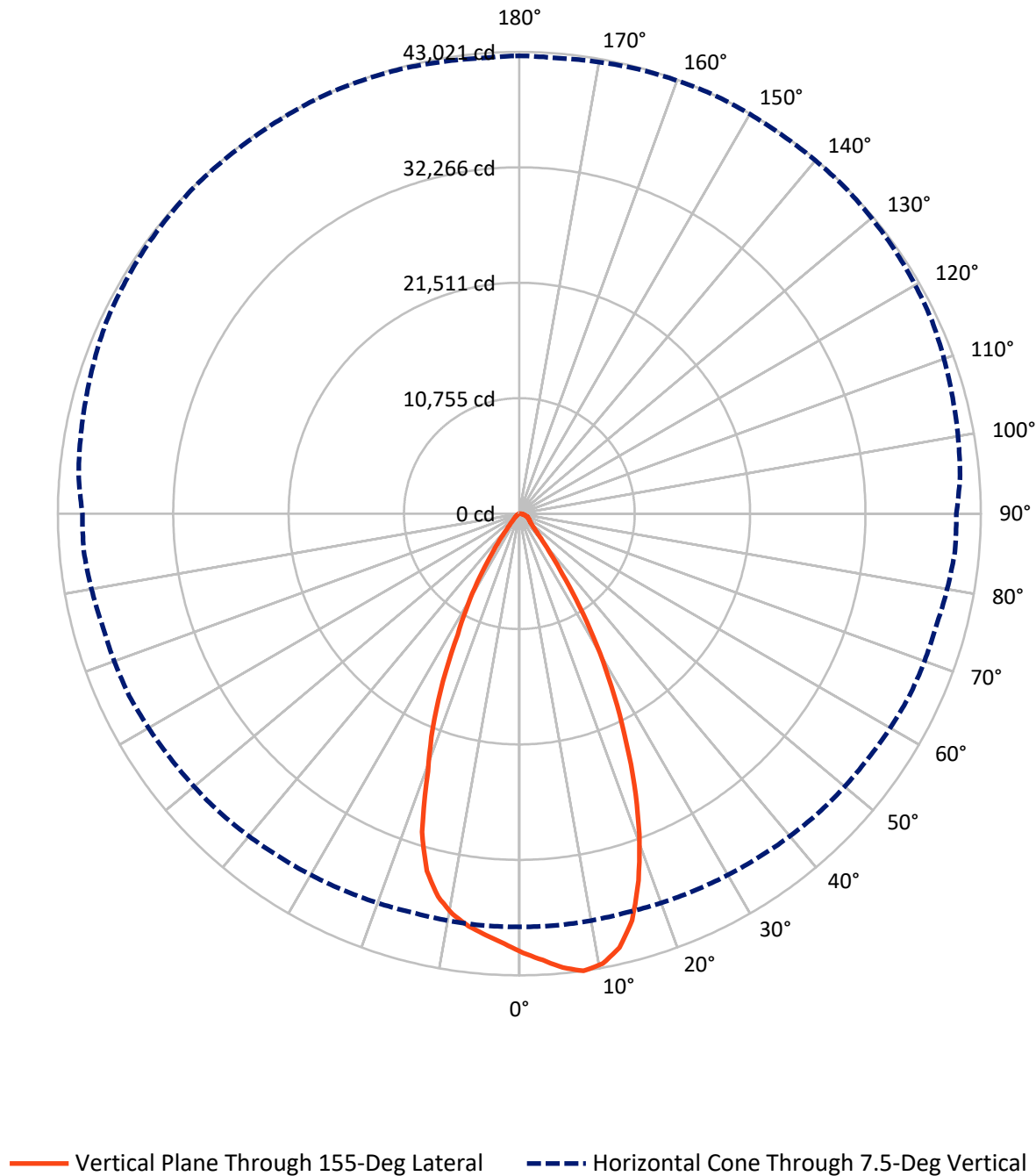


Based on 20 foot mounting height. Maximum calculated value = 104 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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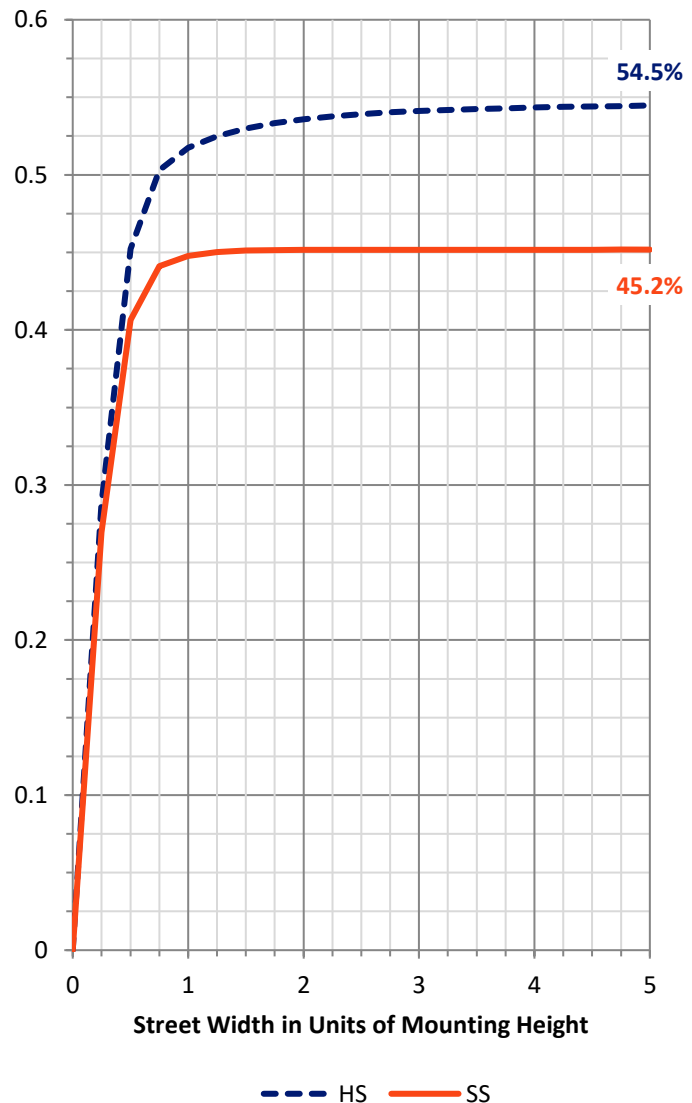
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16222.3	0.0	16222.3
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	13164.0	0.0	13164.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	29386.3	0.0	29386.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3903.6	13.3
10°-20°	10122.2	34.4
20°-30°	9274.7	31.6
30°-40°	3747.0	12.8
40°-50°	1099.2	3.7
50°-60°	614.6	2.1
60°-70°	373.3	1.3
70°-80°	189.7	0.6
80°-90°	62.0	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°	29386.3	100.0
0°-180°	29386.3	100.0

Coefficient of Utilization



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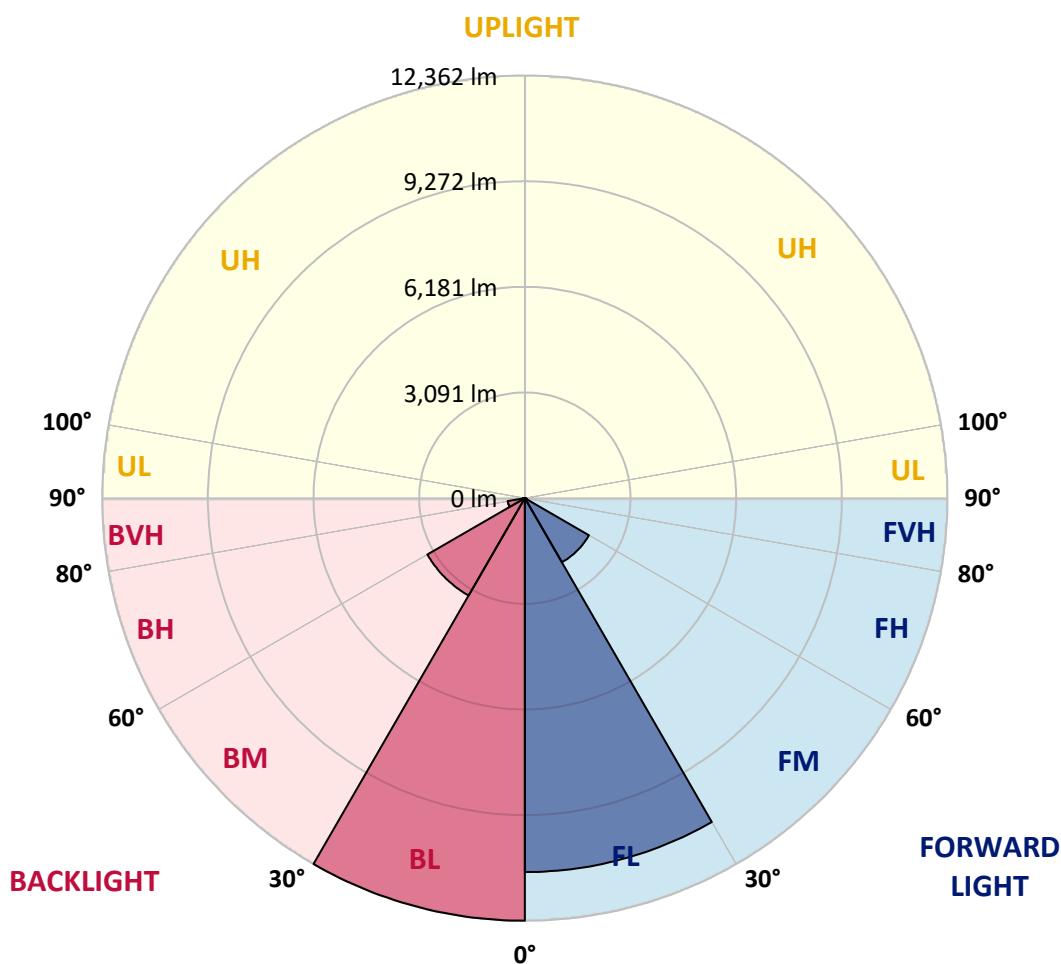
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	10938.3	37.2			
FM	(30°-60°)	2167.8	7.4			
FH	(60°-80°)	52.5	0.2			G0/660
FVH	(80°-90°)	5.4	0.0			G0/10
BL	(0°-30°)	12362.2	42.1	B5		
BM	(30°-60°)	3293.0	11.2	B3/5000		
BH	(60°-80°)	510.4	1.7	B2/1000		G2/1000
BVH	(80°-90°)	56.7	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-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	40937.4	40937.4	40937.4	40937.4	40937.4	40937.4	40937.4	40937.4	40937.4	40937.4
2.5°	40049.6	40185.1	39914.0	40093.6	40232.6	40564.6	40591.7	40707.0	40747.6	41049.2
5°	39290.5	39395.6	39175.3	39415.9	39612.4	39907.3	40134.3	40452.8	40629.0	40984.8
7.5°	38501.0	38524.7	38480.7	38734.8	39029.6	39436.2	39717.5	40134.3	40242.7	40751.0
10°	37545.4	37372.6	37457.3	37830.1	38270.6	38894.1	39087.2	39504.0	39697.2	40215.6
12.5°	36020.6	36108.7	36003.6	36478.0	36844.0	37552.2	37755.5	38175.7	38545.0	39002.5
15°	33872.2	33821.4	34034.9	34404.2	34800.7	35363.2	35691.9	36149.3	36430.6	36905.0
17.5°	29043.5	29216.3	30097.3	31022.4	31835.7	32493.1	32886.1	33265.6	33469.0	33984.0
20°	25082.2	24865.4	24984.0	25505.8	27820.2	28826.6	29240.0	29331.5	29416.2	29822.9
22.5°	20653.4	20582.2	20978.7	21564.9	22113.8	24435.0	24997.5	24784.0	24960.2	25343.2
25°	15336.7	15695.9	16048.3	17173.3	17884.9	19023.5	20090.9	20185.7	20250.1	20490.7
27.5°	12483.5	12358.1	12351.4	12666.5	13717.0	14665.8	15573.9	15784.0	15746.7	15977.1
30°	9813.3	9772.7	9630.3	9704.9	9599.8	10443.6	10870.6	11734.6	11687.2	11694.0
32.5°	7078.7	6926.2	6868.6	6980.5	6872.0	6794.1	7166.8	8142.7	8125.8	8193.6
35°	4283.2	4262.8	4310.3	4408.5	4191.7	4184.9	4262.8	5181.1	5293.0	5401.4
37.5°	2365.2	2344.9	2382.2	2744.7	2673.6	2609.2	2629.5	3114.1	3436.0	3517.3
40°	1558.7	1555.4	1582.5	1646.8	1768.8	1745.1	1755.3	1972.2	2277.1	2348.3
42.5°	1043.7	1047.1	1064.0	1138.6	1155.5	1277.5	1257.2	1308.0	1592.6	1653.6
45°	833.6	830.2	840.4	806.5	826.8	952.2	965.7	969.1	1213.1	1250.4
47.5°	657.4	657.4	667.5	623.5	613.3	691.3	762.4	772.6	969.1	1020.0
50°	460.8	460.8	511.7	491.3	515.1	538.8	616.7	626.9	792.9	847.1
52.5°	338.9	345.6	352.4	355.8	433.7	430.3	498.1	545.6	599.8	694.7
55°	257.5	264.3	247.4	264.3	321.9	359.2	372.7	440.5	477.8	582.8
57.5°	169.4	186.4	172.8	203.3	216.9	277.9	298.2	362.6	386.3	477.8
60°	23.7	27.1	44.1	142.3	152.5	183.0	230.4	288.0	311.7	389.7
62.5°	3.4	3.4	10.2	23.7	101.7	122.0	172.8	199.9	230.4	291.4
65°	0.0	0.0	3.4	6.8	20.3	71.2	88.1	108.4	159.3	210.1
67.5°	0.0	0.0	3.4	6.8	10.2	23.7	37.3	71.2	91.5	145.7
70°	0.0	0.0	3.4	6.8	10.2	13.6	20.3	27.1	54.2	84.7
72.5°	0.0	0.0	3.4	6.8	10.2	13.6	16.9	20.3	23.7	54.2
75°	0.0	0.0	3.4	6.8	10.2	16.9	20.3	20.3	20.3	23.7
77.5°	0.0	0.0	3.4	6.8	13.6	20.3	23.7	20.3	16.9	16.9
80°	0.0	0.0	3.4	10.2	16.9	23.7	27.1	20.3	13.6	10.2
82.5°	0.0	0.0	3.4	10.2	16.9	23.7	27.1	23.7	13.6	10.2
85°	0.0	0.0	3.4	10.2	13.6	16.9	27.1	23.7	13.6	6.8
87.5°	0.0	0.0	0.0	3.4	3.4	6.8	13.6	10.2	6.8	3.4
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°
40937.4	0°	40937.4	40937.4	40937.4	40937.4	40937.4	40937.4	40937.4	40937.4	40937.4
41042.4	2.5°	41347.4	41499.9	41767.6	41842.1	42072.6	41808.2	41662.5	41676.1	41361.0
40940.8	5°	41347.4	41696.4	42164.0	42387.7	42557.1	42543.6	42506.3	42411.4	42181.0
40737.5	7.5°	41239.0	41808.2	42452.1	42750.3	42953.6	42936.6	43021.4	42868.9	42587.6
40374.9	10°	40889.9	41384.7	42177.6	42421.6	42750.3	42757.0	42652.0	42682.5	42181.0
39049.9	12.5°	39792.0	40178.3	40873.0	41150.9	41550.7	41615.1	41499.9	41455.8	40981.4
36877.9	15°	37667.4	37891.1	38589.1	38867.0	39263.4	39209.2	39324.4	39277.0	38860.2
33943.4	17.5°	34560.1	34631.2	35363.2	35597.0	35969.7	36115.4	35942.6	36162.9	35803.7
29894.0	20°	30104.1	30487.0	31310.4	31669.6	31886.5	32147.4	31920.4	32167.7	31747.6
24980.6	22.5°	25583.7	25810.8	26556.3	27074.7	27478.0	27528.8	27444.1	27616.9	27051.0
20650.0	25°	20646.6	21022.7	21612.3	22290.1	22686.5	22930.5	22710.2	22822.1	22730.6
16014.4	27.5°	16285.5	16621.0	17064.9	17569.8	18166.2	18484.7	18308.5	18498.2	18050.9
11941.3	30°	11951.5	12120.9	12622.4	13157.8	13811.8	14198.1	14215.1	14408.2	14143.9
8366.4	32.5°	8427.4	8576.5	8884.8	9240.6	9864.1	10294.5	10226.7	10253.8	10091.2
5452.2	35°	5479.3	5679.3	5899.5	6068.9	6445.1	6919.5	6882.2	6848.3	6736.5
3585.1	37.5°	3663.1	3741.0	3863.0	4015.5	4259.4	4557.6	4655.9	4533.9	4486.5
2419.4	40°	2477.0	2612.6	2693.9	2809.1	2924.3	3175.1	3242.9	3219.1	3171.7
1694.3	42.5°	1758.7	1863.7	1965.4	2077.2	2138.2	2294.1	2426.2	2388.9	2368.6
1287.7	45°	1335.1	1430.0	1548.6	1633.3	1694.3	1785.8	1911.2	1924.7	1894.2
1033.5	47.5°	1070.8	1155.5	1250.4	1355.4	1426.6	1484.2	1592.6	1633.3	1613.0
870.9	50°	908.1	972.5	1064.0	1169.1	1247.0	1297.8	1392.7	1436.8	1423.2
728.5	52.5°	772.6	850.5	935.2	1023.3	1118.2	1169.1	1257.2	1321.5	1311.4
603.2	55°	640.4	742.1	830.2	918.3	1026.7	1077.6	1155.5	1240.2	1223.3
511.7	57.5°	559.1	643.8	735.3	820.0	935.2	1003.0	1074.2	1162.3	1158.9
420.2	60°	467.6	552.3	654.0	725.2	847.1	942.0	1006.4	1097.9	1104.7
318.5	62.5°	372.7	477.8	555.7	654.0	765.8	877.6	938.6	1030.1	1064.0
244.0	65°	277.9	393.1	481.2	579.4	684.5	809.9	864.1	955.6	989.5
176.2	67.5°	206.7	294.8	406.6	491.3	609.9	718.4	782.8	867.5	891.2
105.0	70°	155.9	227.0	338.9	413.4	535.4	623.5	687.9	752.3	782.8
71.2	72.5°	91.5	169.4	267.7	355.8	460.8	535.4	582.8	633.7	654.0
33.9	75°	64.4	128.8	210.1	294.8	372.7	433.7	477.8	521.8	542.2
16.9	77.5°	33.9	94.9	166.0	237.2	291.4	342.2	386.3	420.2	433.7
13.6	80°	20.3	67.8	135.5	186.4	223.6	267.7	311.7	335.5	332.1
10.2	82.5°	13.6	54.2	98.3	135.5	162.7	196.5	227.0	244.0	244.0
6.8	85°	10.2	37.3	67.8	105.0	108.4	135.5	142.3	159.3	162.7
6.8	87.5°	6.8	23.7	37.3	61.0	57.6	71.2	74.5	84.7	91.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
40937.4
41106.8
42255.5
42652.0
42035.3
40873.0
38992.3
35715.6
31713.7
26973.1
22673.0
18166.2
14191.4
10182.7
6638.2
4476.3
3178.5
2351.7
1890.8
1602.8
1419.8
1304.6
1223.3
1155.5
1104.7
1060.6
986.1
891.2
776.0
647.2
535.4
430.3
328.7
240.6
159.3
88.1
0.0

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