

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: P637777

Luminaire Tested: **IFLD-L-SA8A-830-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637777
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-830-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25568.9 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 247.8
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



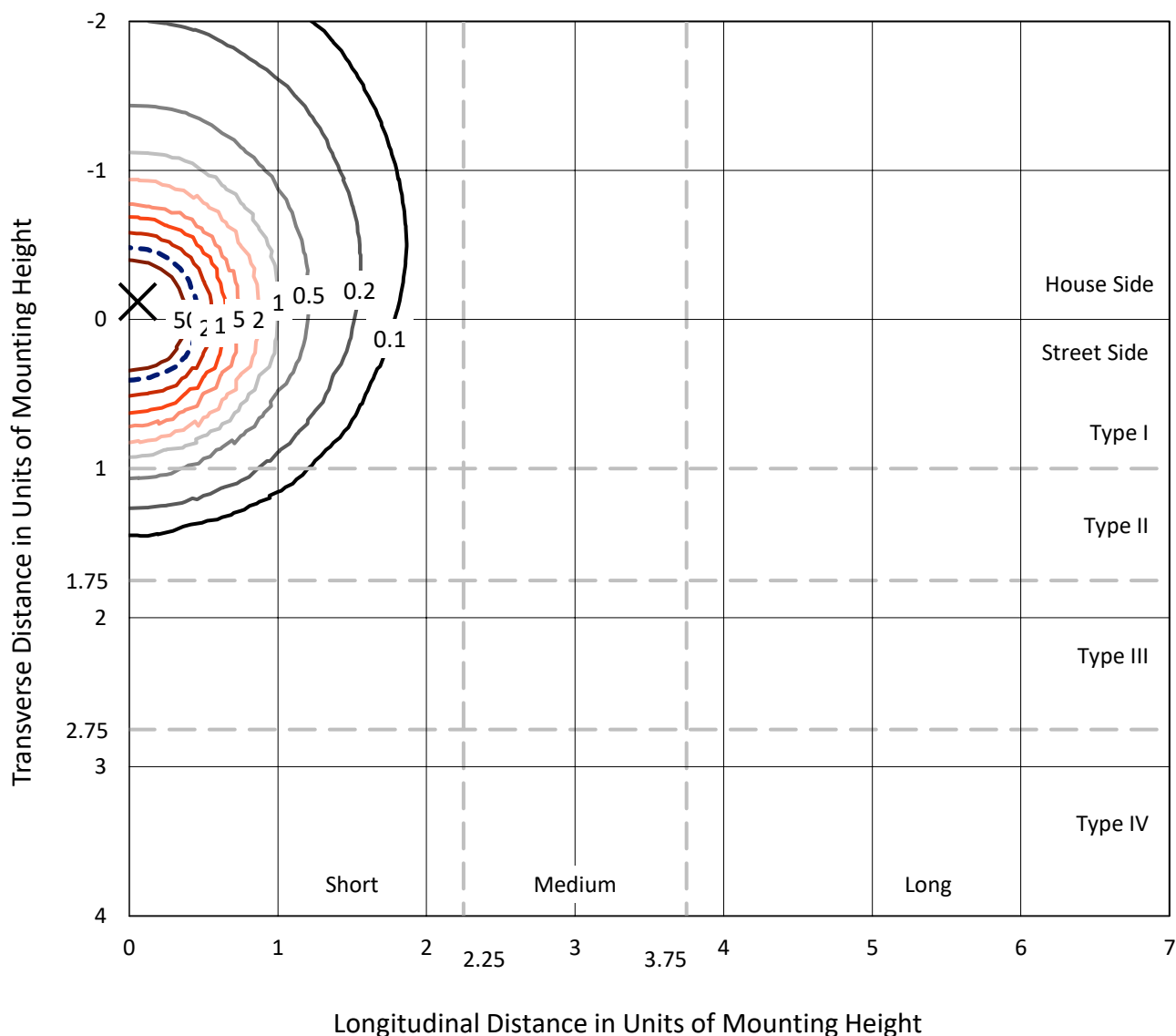
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



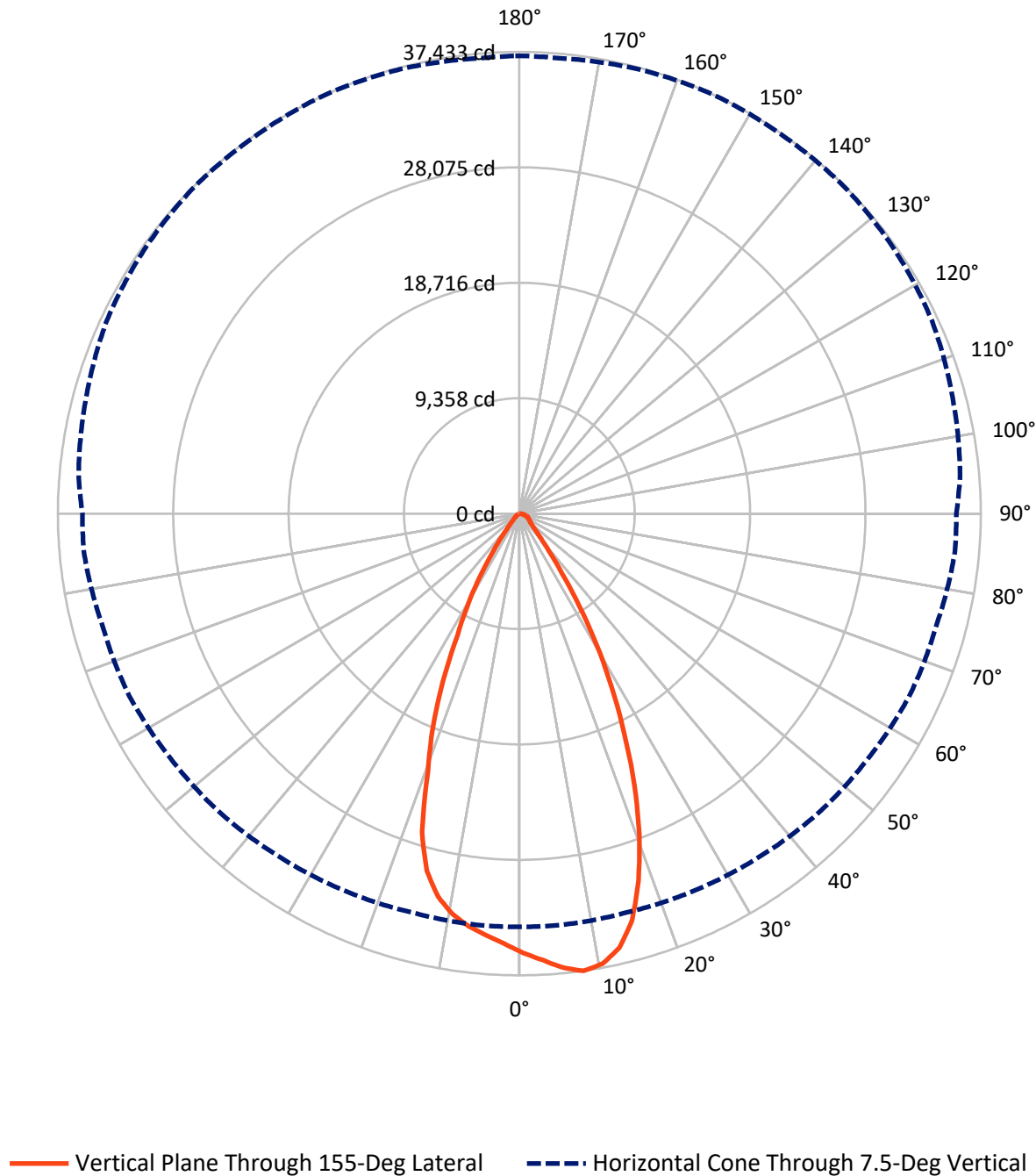
Based on 20 foot mounting height. Maximum calculated value = 90.5 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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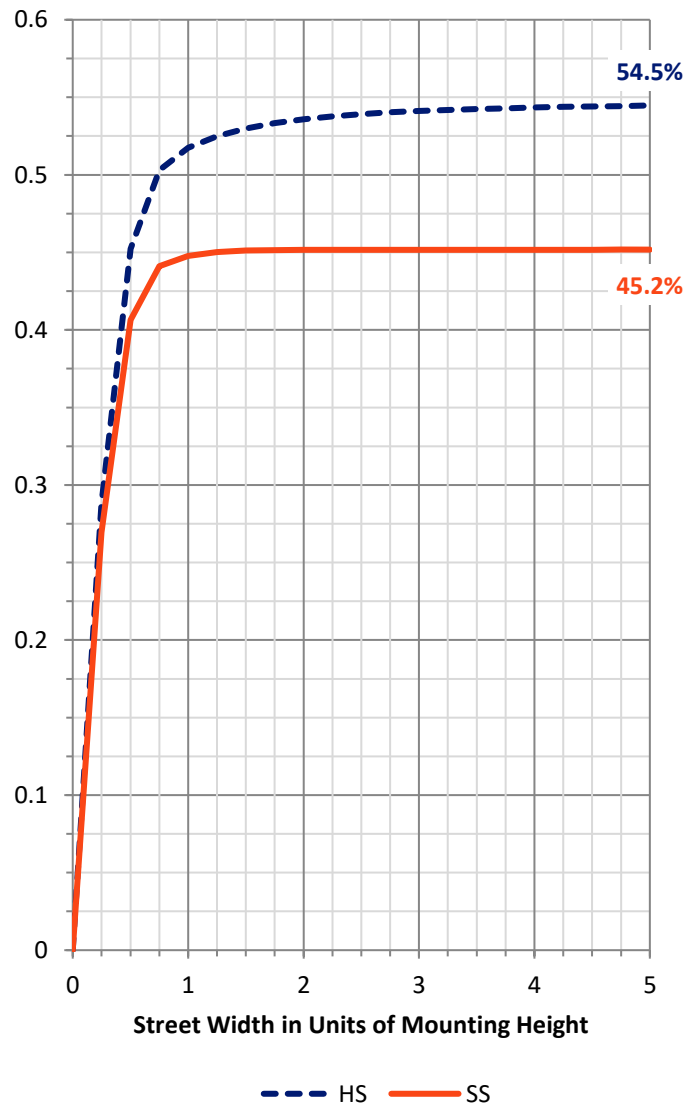
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14115.0	0.0	14115.0
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	11453.9	0.0	11453.9
	% Fixture	44.8	0.0	44.8
Total	Lumens	25568.9	0.0	25568.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3396.5	13.3
10°-20°	8807.3	34.4
20°-30°	8069.9	31.6
30°-40°	3260.2	12.8
40°-50°	956.4	3.7
50°-60°	534.7	2.1
60°-70°	324.8	1.3
70°-80°	165.0	0.6
80°-90°	54.0	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°	25568.9	100.0
0°-180°	25568.9	100.0

Coefficient of Utilization



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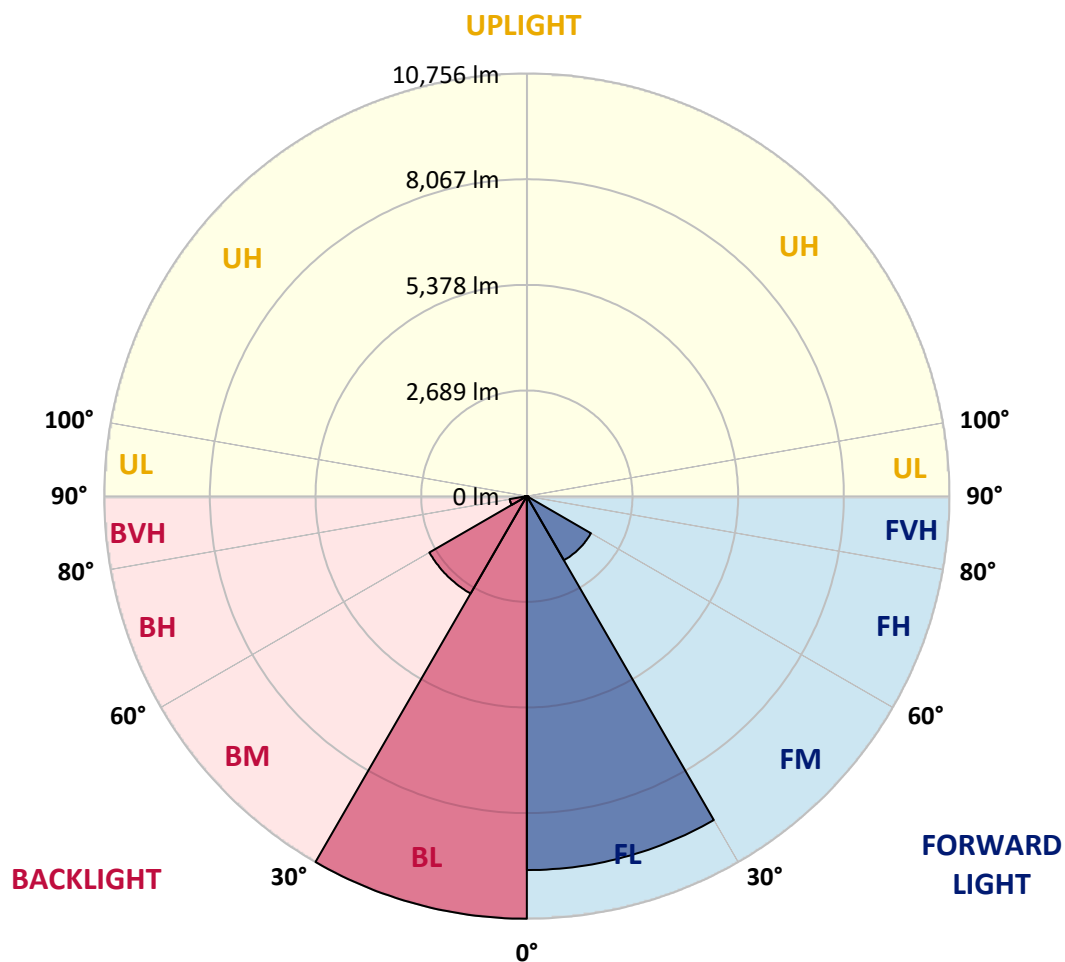
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9517.4	37.2			
FM	(30°-60°)	1886.2	7.4			
FH	(60°-80°)	45.7	0.2			G0/660
FVH	(80°-90°)	4.7	0.0			G0/10
BL	(0°-30°)	10756.3	42.1	B5		
BM	(30°-60°)	2865.2	11.2	B3/5000		
BH	(60°-80°)	444.1	1.7	B1/500		G1/500
BVH	(80°-90°)	49.3	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°	35619.4	35619.4	35619.4	35619.4	35619.4	35619.4	35619.4	35619.4	35619.4	35619.4
2.5°	34847.0	34964.9	34729.0	34885.3	35006.2	35295.1	35318.7	35418.9	35454.3	35716.7
5°	34186.5	34277.9	34086.3	34295.6	34466.6	34723.1	34920.7	35197.8	35351.1	35660.7
7.5°	33499.5	33520.2	33481.9	33703.0	33959.5	34313.3	34558.0	34920.7	35015.0	35457.3
10°	32668.1	32517.7	32591.4	32915.8	33299.1	33841.6	34009.6	34372.3	34540.3	34991.4
12.5°	31341.3	31418.0	31326.6	31739.4	32057.8	32674.0	32850.9	33216.5	33537.9	33935.9
15°	29472.1	29427.8	29613.6	29934.9	30279.9	30769.3	31055.3	31453.4	31698.1	32110.9
17.5°	25270.6	25421.0	26187.6	26992.5	27700.1	28272.1	28614.1	28944.3	29121.2	29569.3
20°	21823.9	21635.2	21738.4	22192.5	24206.2	25081.9	25441.6	25521.2	25594.9	25948.7
22.5°	17970.4	17908.5	18253.4	18763.5	19241.2	21260.8	21750.2	21564.5	21717.8	22051.0
25°	13344.4	13656.9	13963.5	14942.4	15561.6	16552.2	17481.0	17563.5	17619.5	17828.9
27.5°	10861.8	10752.8	10746.9	11021.1	11935.1	12760.6	13550.8	13733.6	13701.1	13901.6
30°	8538.5	8503.1	8379.3	8444.2	8352.8	9086.9	9458.4	10210.3	10169.0	10174.9
32.5°	6159.2	6026.5	5976.4	6073.7	5979.3	5911.5	6235.8	7085.0	7070.2	7129.2
35°	3726.8	3709.1	3750.3	3835.8	3647.2	3641.3	3709.1	4508.1	4605.4	4699.7
37.5°	2058.0	2040.3	2072.7	2388.2	2326.3	2270.3	2287.9	2709.6	2989.7	3060.4
40°	1356.3	1353.3	1376.9	1432.9	1539.1	1518.4	1527.3	1716.0	1981.3	2043.2
42.5°	908.1	911.1	925.8	990.7	1005.4	1111.5	1093.9	1138.1	1385.7	1438.8
45°	725.3	722.4	731.2	701.7	719.4	828.5	840.3	843.2	1055.5	1088.0
47.5°	572.0	572.0	580.8	542.5	533.7	601.5	663.4	672.2	843.2	887.5
50°	401.0	401.0	445.2	427.5	448.2	468.8	536.6	545.5	689.9	737.1
52.5°	294.8	300.7	306.6	309.6	377.4	374.4	433.4	474.7	521.9	604.4
55°	224.1	230.0	215.2	230.0	280.1	312.5	324.3	383.3	415.7	507.1
57.5°	147.4	162.2	150.4	176.9	188.7	241.8	259.5	315.5	336.1	415.7
60°	20.6	23.6	38.3	123.8	132.7	159.2	200.5	250.6	271.3	339.1
62.5°	2.9	2.9	8.8	20.6	88.5	106.1	150.4	174.0	200.5	253.6
65°	0.0	0.0	2.9	5.9	17.7	61.9	76.7	94.3	138.6	182.8
67.5°	0.0	0.0	2.9	5.9	8.8	20.6	32.4	61.9	79.6	126.8
70°	0.0	0.0	2.9	5.9	8.8	11.8	17.7	23.6	47.2	73.7
72.5°	0.0	0.0	2.9	5.9	8.8	11.8	14.7	17.7	20.6	47.2
75°	0.0	0.0	2.9	5.9	8.8	14.7	17.7	17.7	17.7	20.6
77.5°	0.0	0.0	2.9	5.9	11.8	17.7	20.6	17.7	14.7	14.7
80°	0.0	0.0	2.9	8.8	14.7	20.6	23.6	17.7	11.8	8.8
82.5°	0.0	0.0	2.9	8.8	14.7	20.6	23.6	20.6	11.8	8.8
85°	0.0	0.0	2.9	8.8	11.8	14.7	23.6	20.6	11.8	5.9
87.5°	0.0	0.0	0.0	2.9	2.9	5.9	11.8	8.8	5.9	2.9
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°
35619.4	0°	35619.4	35619.4	35619.4	35619.4	35619.4	35619.4	35619.4	35619.4	35619.4
35710.8	2.5°	35976.2	36108.9	36341.8	36406.7	36607.1	36377.2	36250.4	36262.2	35988.0
35622.4	5°	35976.2	36279.9	36686.7	36881.3	37028.8	37017.0	36984.5	36902.0	36701.5
35445.5	7.5°	35881.8	36377.2	36937.4	37196.8	37373.7	37359.0	37432.7	37300.0	37055.3
35130.0	10°	35578.2	36008.6	36698.5	36910.8	37196.8	37202.7	37111.3	37137.9	36701.5
33977.2	12.5°	34622.9	34959.0	35563.4	35805.2	36153.1	36209.1	36108.9	36070.5	35657.8
32087.3	15°	32774.2	32968.8	33576.2	33818.0	34162.9	34115.8	34216.0	34174.7	33812.1
29534.0	17.5°	30070.6	30132.5	30769.3	30972.8	31297.1	31423.9	31273.5	31465.2	31152.6
26010.6	20°	26193.4	26526.6	27243.1	27555.6	27744.3	27971.3	27773.8	27989.0	27623.4
21735.5	22.5°	22260.3	22457.8	23106.5	23557.6	23908.5	23952.7	23879.0	24029.3	23537.0
17967.5	25°	17964.5	18291.8	18804.8	19394.5	19739.4	19951.7	19760.1	19857.4	19777.8
13934.1	27.5°	14169.9	14461.8	14848.1	15287.4	15806.3	16083.4	15930.1	16095.2	15706.0
10390.1	30°	10399.0	10546.4	10982.7	11448.6	12017.6	12353.7	12368.5	12536.5	12306.6
7279.6	32.5°	7332.6	7462.4	7730.7	8040.2	8582.7	8957.2	8898.2	8921.8	8780.3
4744.0	35°	4767.5	4941.5	5133.1	5280.6	5607.8	6020.6	5988.2	5958.7	5861.4
3119.4	37.5°	3187.2	3255.0	3361.2	3493.8	3706.1	3965.6	4051.1	3944.9	3903.7
2105.1	40°	2155.3	2273.2	2344.0	2444.2	2544.5	2762.6	2821.6	2801.0	2759.7
1474.2	42.5°	1530.2	1621.6	1710.1	1807.4	1860.4	1996.1	2111.0	2078.6	2060.9
1120.4	45°	1161.7	1244.2	1347.4	1421.1	1474.2	1553.8	1662.9	1674.7	1648.1
899.3	47.5°	931.7	1005.4	1088.0	1179.4	1241.3	1291.4	1385.7	1421.1	1403.4
757.7	50°	790.2	846.2	925.8	1017.2	1085.0	1129.2	1211.8	1250.1	1238.3
633.9	52.5°	672.2	740.0	813.8	890.4	973.0	1017.2	1093.9	1149.9	1141.0
524.8	55°	557.2	645.7	722.4	799.0	893.4	937.6	1005.4	1079.1	1064.4
445.2	57.5°	486.5	560.2	639.8	713.5	813.8	872.7	934.6	1011.3	1008.3
365.6	60°	406.9	480.6	569.0	631.0	737.1	819.7	875.7	955.3	961.2
277.1	62.5°	324.3	415.7	483.5	569.0	666.3	763.6	816.7	896.3	925.8
212.3	65°	241.8	342.0	418.7	504.2	595.6	704.7	751.8	831.4	860.9
153.3	67.5°	179.9	256.5	353.8	427.5	530.7	625.1	681.1	754.8	775.4
91.4	70°	135.6	197.5	294.8	359.7	465.8	542.5	598.5	654.5	681.1
61.9	72.5°	79.6	147.4	232.9	309.6	401.0	465.8	507.1	551.3	569.0
29.5	75°	56.0	112.0	182.8	256.5	324.3	377.4	415.7	454.1	471.7
14.7	77.5°	29.5	82.6	144.5	206.4	253.6	297.8	336.1	365.6	377.4
11.8	80°	17.7	59.0	117.9	162.2	194.6	232.9	271.3	291.9	288.9
8.8	82.5°	11.8	47.2	85.5	117.9	141.5	171.0	197.5	212.3	212.3
5.9	85°	8.8	32.4	59.0	91.4	94.3	117.9	123.8	138.6	141.5
5.9	87.5°	5.9	20.6	32.4	53.1	50.1	61.9	64.9	73.7	79.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
35619.4
35766.9
36766.4
37111.3
36574.7
35563.4
33927.1
31076.0
27593.9
23469.1
19727.6
15806.3
12347.8
8859.9
5775.9
3894.8
2765.6
2046.2
1645.2
1394.6
1235.4
1135.1
1064.4
1005.4
961.2
922.8
858.0
775.4
675.2
563.1
465.8
374.4
286.0
209.3
138.6
76.7
0.0

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