

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: P637600

Luminaire Tested: **IFLD-L-SA7C-730-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637600
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-730-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37919 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 369
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



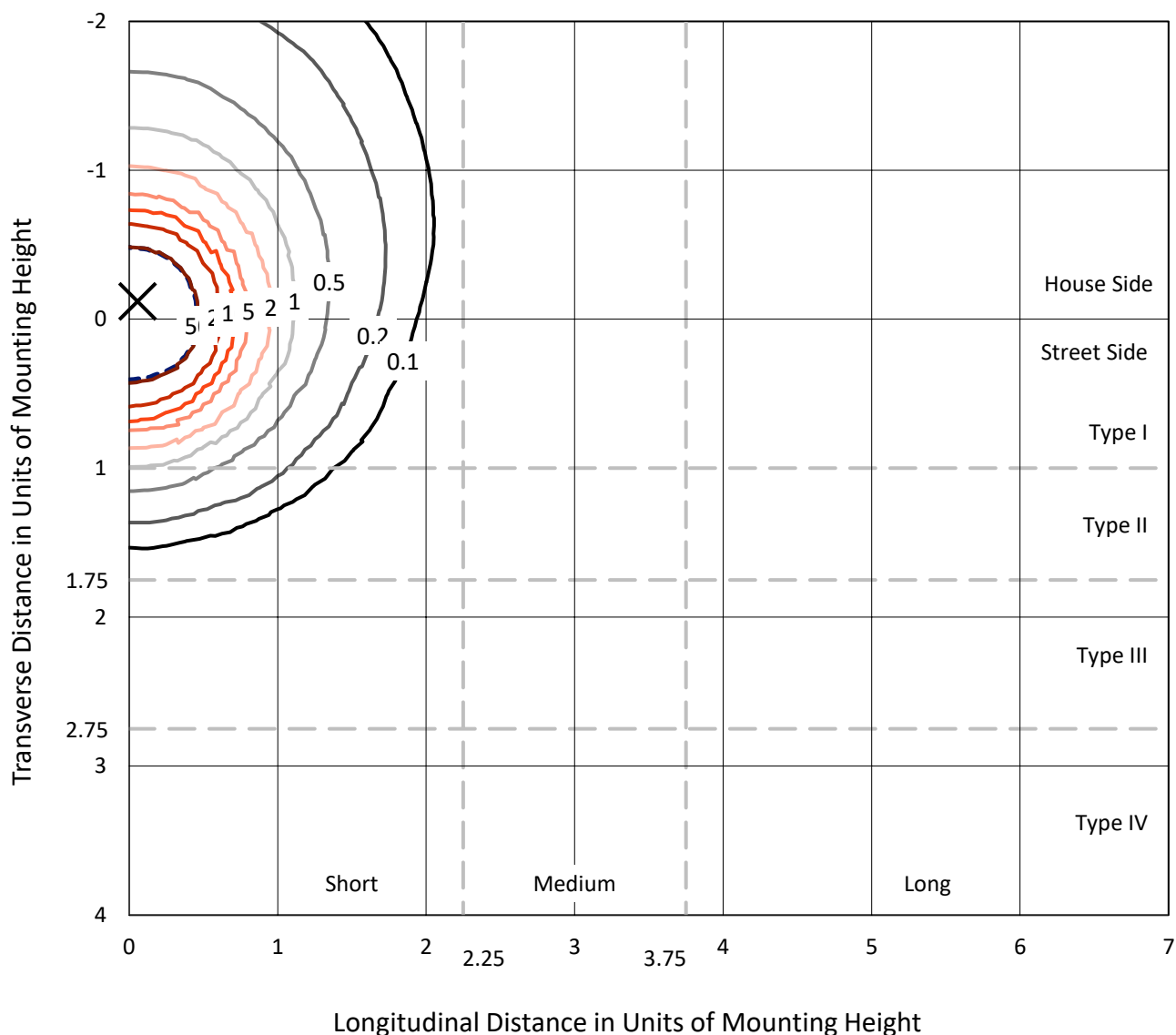
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

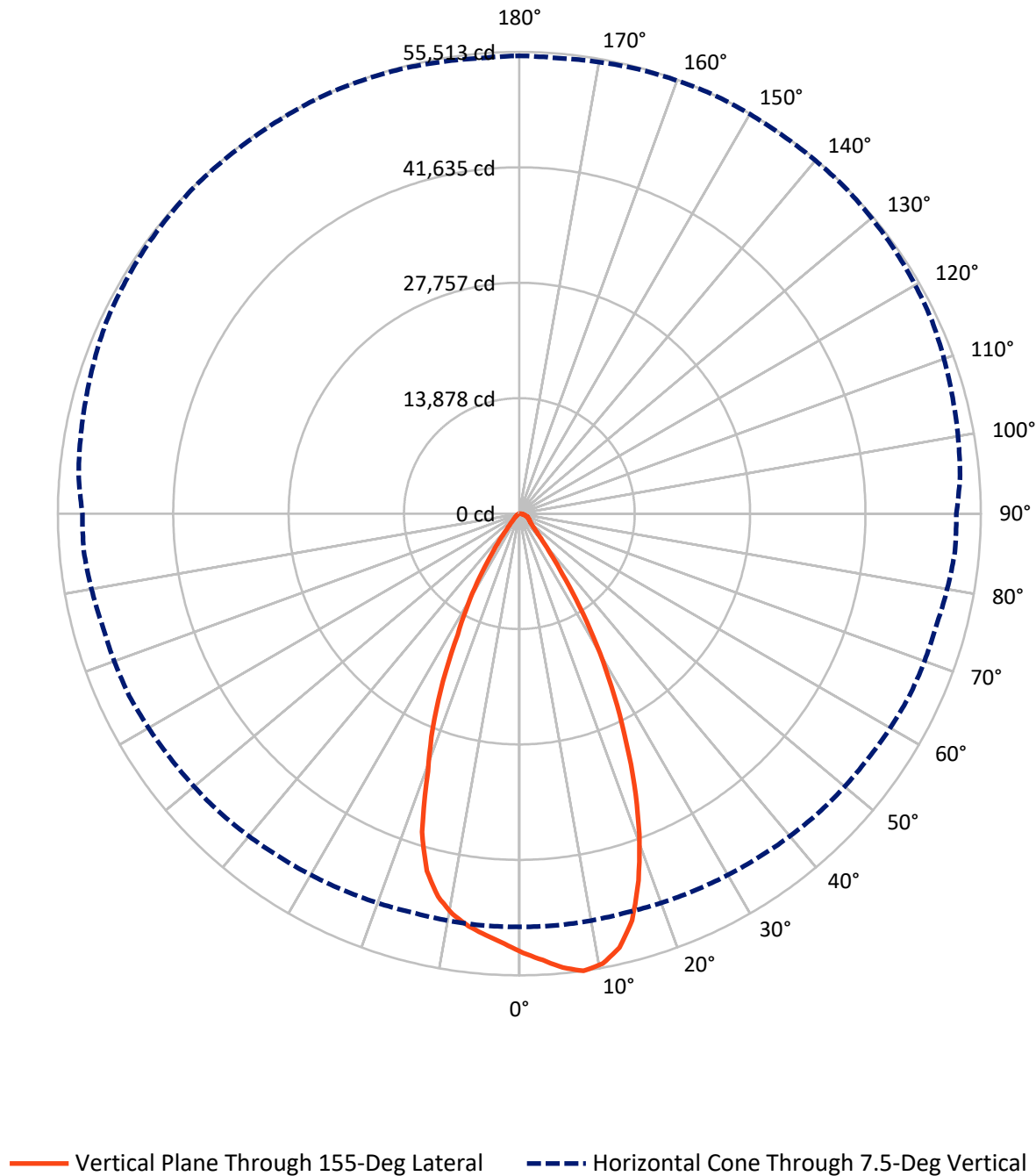


Based on 20 foot mounting height. Maximum calculated value = 134.2 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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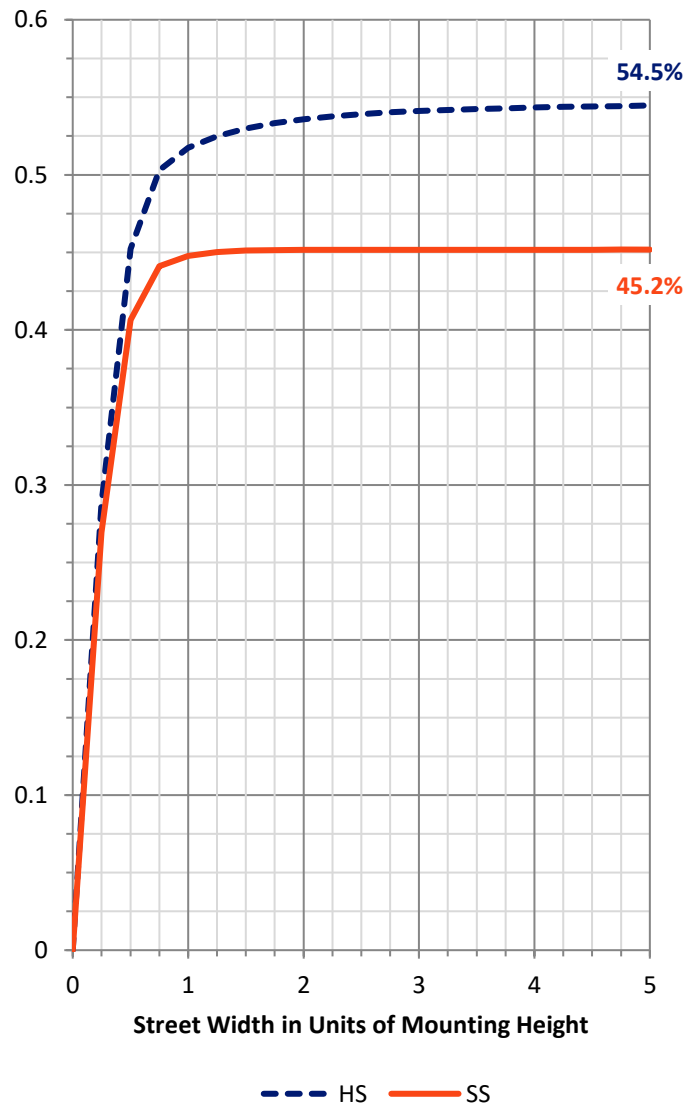
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20932.7	0.0	20932.7
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	16986.3	0.0	16986.3
	% Fixture	44.8	0.0	44.8
Total	Lumens	37919.0	0.0	37919.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5037.1	13.3
10°-20°	13061.3	34.4
20°-30°	11967.8	31.6
30°-40°	4835.0	12.8
40°-50°	1418.4	3.7
50°-60°	793.0	2.1
60°-70°	481.7	1.3
70°-80°	244.7	0.6
80°-90°	80.0	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°	37919.0	100.0
0°-180°	37919.0	100.0

Coefficient of Utilization



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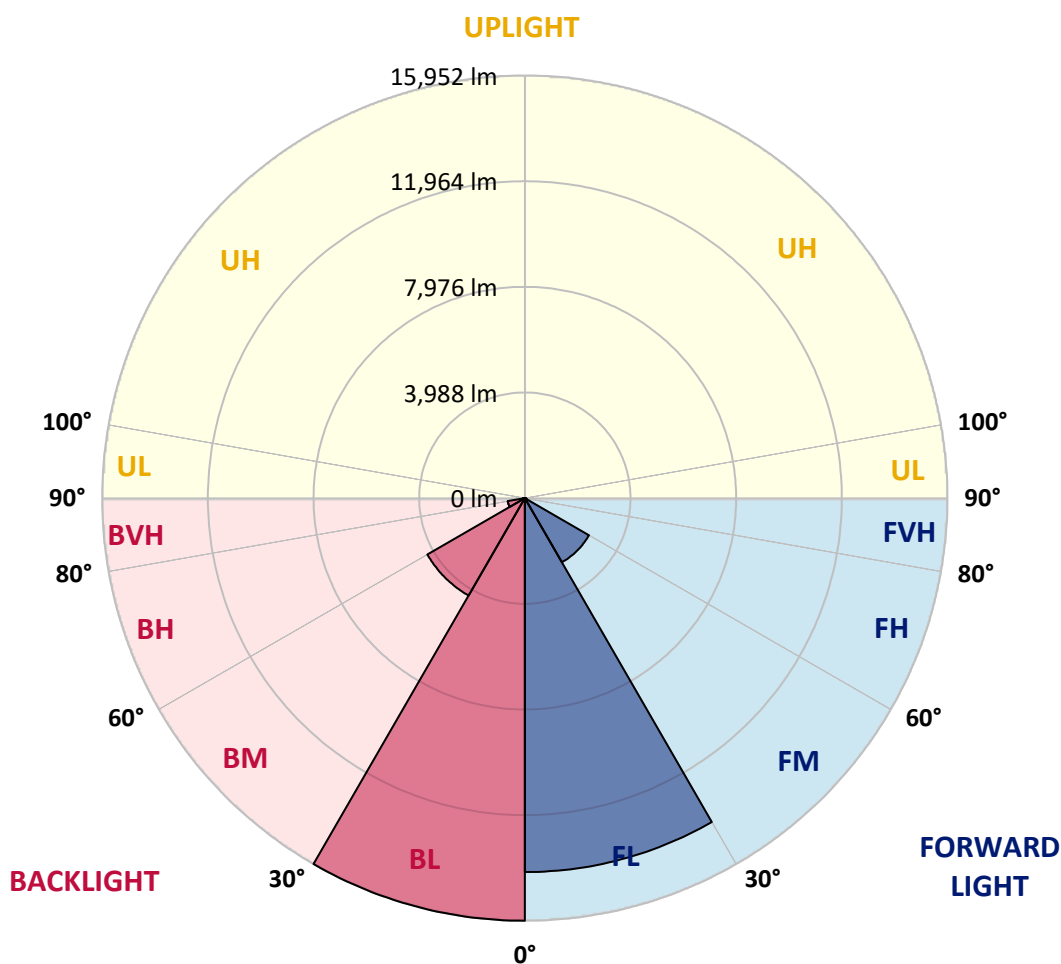
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	14114.4	37.2			
FM	(30°-60°)	2797.2	7.4			
FH	(60°-80°)	67.7	0.2			G0/660
FVH	(80°-90°)	6.9	0.0			G0/10
BL	(0°-30°)	15951.8	42.1	B5		
BM	(30°-60°)	4249.2	11.2	B3/5000		
BH	(60°-80°)	658.6	1.7	B2/1000		G2/1000
BVH	(80°-90°)	73.1	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°	52824.2	52824.2	52824.2	52824.2	52824.2	52824.2	52824.2	52824.2	52824.2	52824.2
2.5°	51678.6	51853.5	51503.7	51735.4	51914.7	52343.2	52378.2	52526.8	52579.3	52968.4
5°	50699.1	50834.7	50550.5	50860.9	51114.5	51494.9	51787.9	52198.9	52426.3	52885.4
7.5°	49680.3	49710.9	49654.1	49982.0	50362.4	50887.1	51250.1	51787.9	51927.8	52583.7
10°	48447.3	48224.3	48333.6	48814.6	49383.0	50187.5	50436.8	50974.6	51223.8	51892.8
12.5°	46479.7	46593.3	46457.8	47069.9	47542.2	48456.0	48718.4	49260.6	49737.2	50327.5
15°	43707.5	43641.9	43917.4	44394.0	44905.6	45631.4	46055.5	46645.8	47008.7	47620.9
17.5°	37476.7	37699.7	38836.5	40030.2	41079.6	41927.9	42435.1	42924.8	43187.2	43851.8
20°	32365.2	32085.4	32238.4	32911.8	35898.2	37196.8	37730.3	37848.3	37957.7	38482.4
22.5°	26650.4	26558.6	27070.1	27826.6	28534.9	31530.1	32255.9	31980.5	32207.8	32701.9
25°	19789.9	20253.4	20708.2	22159.8	23078.0	24547.2	25924.5	26047.0	26130.1	26440.5
27.5°	16108.3	15946.5	15937.8	16344.4	17699.9	18924.2	20096.0	20367.1	20319.0	20616.3
30°	12662.8	12610.3	12426.6	12522.8	12387.3	13476.0	14027.0	15142.0	15080.7	15089.5
32.5°	9134.1	8937.4	8863.1	9007.3	8867.4	8766.9	9247.8	10507.1	10485.3	10572.7
35°	5526.8	5500.6	5561.8	5688.6	5408.8	5400.0	5500.6	6685.6	6829.8	6969.8
37.5°	3052.0	3025.8	3073.9	3541.7	3449.9	3366.8	3393.1	4018.3	4433.7	4538.7
40°	2011.3	2007.0	2042.0	2125.0	2282.4	2251.8	2265.0	2544.8	2938.3	3030.1
42.5°	1346.7	1351.1	1373.0	1469.2	1491.0	1648.4	1622.2	1687.8	2055.1	2133.8
45°	1075.6	1071.3	1084.4	1040.7	1066.9	1228.7	1246.2	1250.5	1565.4	1613.5
47.5°	848.3	848.3	861.4	804.5	791.4	892.0	983.8	996.9	1250.5	1316.1
50°	594.7	594.7	660.2	634.0	664.6	695.2	795.8	808.9	1023.2	1093.1
52.5°	437.2	446.0	454.7	459.1	559.7	555.3	642.8	704.0	773.9	896.4
55°	332.3	341.1	319.2	341.1	415.4	463.5	481.0	568.4	616.5	752.1
57.5°	218.6	240.5	223.0	262.3	279.8	358.5	384.8	467.9	498.5	616.5
60°	30.6	35.0	56.8	183.6	196.8	236.1	297.3	371.7	402.3	502.8
62.5°	4.4	4.4	13.1	30.6	131.2	157.4	223.0	258.0	297.3	376.0
65°	0.0	0.0	4.4	8.7	26.2	91.8	113.7	139.9	205.5	271.1
67.5°	0.0	0.0	4.4	8.7	13.1	30.6	48.1	91.8	118.1	188.0
70°	0.0	0.0	4.4	8.7	13.1	17.5	26.2	35.0	70.0	109.3
72.5°	0.0	0.0	4.4	8.7	13.1	17.5	21.9	26.2	30.6	70.0
75°	0.0	0.0	4.4	8.7	13.1	21.9	26.2	26.2	26.2	30.6
77.5°	0.0	0.0	4.4	8.7	17.5	26.2	30.6	26.2	21.9	21.9
80°	0.0	0.0	4.4	13.1	21.9	30.6	35.0	26.2	17.5	13.1
82.5°	0.0	0.0	4.4	13.1	21.9	30.6	35.0	30.6	17.5	13.1
85°	0.0	0.0	4.4	13.1	17.5	21.9	35.0	30.6	17.5	8.7
87.5°	0.0	0.0	0.0	4.4	4.4	8.7	17.5	13.1	8.7	4.4
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°
52824.2	0°	52824.2	52824.2	52824.2	52824.2	52824.2	52824.2	52824.2	52824.2	52824.2
52959.7	2.5°	53353.2	53550.0	53895.4	53991.6	54288.9	53947.9	53759.9	53777.4	53370.7
52828.5	5°	53353.2	53803.6	54407.0	54695.6	54914.2	54896.7	54848.6	54726.2	54428.9
52566.2	7.5°	53213.3	53947.9	54778.7	55163.4	55425.8	55403.9	55513.2	55316.5	54953.6
52098.3	10°	52762.9	53401.3	54424.5	54739.3	55163.4	55172.2	55036.6	55076.0	54428.9
50388.7	12.5°	51346.2	51844.7	52741.1	53099.6	53615.6	53698.7	53550.0	53493.1	52881.0
47585.9	15°	48604.7	48893.3	49794.0	50152.6	50664.1	50594.2	50742.8	50681.6	50143.8
43799.3	17.5°	44595.1	44686.9	45631.4	45933.1	46414.1	46602.1	46379.1	46663.3	46199.8
38574.2	20°	38845.3	39339.4	40401.9	40865.4	41145.2	41481.9	41188.9	41508.1	40965.9
32234.1	22.5°	33012.4	33305.3	34267.3	34936.3	35456.6	35522.2	35412.9	35635.9	34905.7
26646.0	25°	26641.6	27127.0	27887.8	28762.3	29273.9	29588.7	29304.5	29448.8	29330.7
20664.4	27.5°	21014.2	21447.1	22019.9	22671.4	23441.0	23852.0	23624.6	23869.5	23292.3
15408.7	30°	15421.8	15640.4	16287.6	16978.4	17822.3	18320.8	18342.6	18591.9	18250.8
10795.7	32.5°	10874.4	11066.8	11464.7	11923.8	12728.3	13283.7	13196.2	13231.2	13021.3
7035.4	35°	7070.3	7328.3	7612.5	7831.1	8316.5	8928.6	8880.5	8836.8	8692.5
4626.1	37.5°	4726.7	4827.2	4984.6	5181.4	5496.2	5881.0	6007.8	5850.4	5789.2
3122.0	40°	3196.3	3371.2	3476.1	3624.8	3773.5	4097.0	4184.5	4153.9	4092.7
2186.2	42.5°	2269.3	2404.9	2536.0	2680.3	2759.0	2960.2	3130.7	3082.6	3056.4
1661.5	45°	1722.8	1845.2	1998.2	2107.5	2186.2	2304.3	2466.1	2483.6	2444.2
1333.6	47.5°	1381.7	1491.0	1613.5	1749.0	1840.8	1915.2	2055.1	2107.5	2081.3
1123.7	50°	1171.8	1254.9	1373.0	1508.5	1609.1	1674.7	1797.1	1853.9	1836.4
940.1	52.5°	996.9	1097.5	1206.8	1320.5	1442.9	1508.5	1622.2	1705.3	1692.2
778.3	55°	826.4	957.6	1071.3	1184.9	1324.9	1390.5	1491.0	1600.3	1578.5
660.2	57.5°	721.5	830.8	948.8	1058.1	1206.8	1294.3	1386.1	1499.8	1495.4
542.2	60°	603.4	712.7	843.9	935.7	1093.1	1215.6	1298.6	1416.7	1425.4
411.0	62.5°	481.0	616.5	717.1	843.9	988.2	1132.5	1211.2	1329.2	1373.0
314.8	65°	358.5	507.2	620.9	747.7	883.2	1045.0	1115.0	1233.0	1276.8
227.4	67.5°	266.7	380.4	524.7	634.0	787.0	927.0	1010.0	1119.4	1150.0
135.5	70°	201.1	293.0	437.2	533.4	690.9	804.5	887.6	970.7	1010.0
91.8	72.5°	118.1	218.6	345.4	459.1	594.7	690.9	752.1	817.7	843.9
43.7	75°	83.1	166.2	271.1	380.4	481.0	559.7	616.5	673.4	699.6
21.9	77.5°	43.7	122.4	214.3	306.1	376.0	441.6	498.5	542.2	559.7
17.5	80°	26.2	87.4	174.9	240.5	288.6	345.4	402.3	432.9	428.5
13.1	82.5°	17.5	70.0	126.8	174.9	209.9	253.6	293.0	314.8	314.8
8.7	85°	13.1	48.1	87.4	135.5	139.9	174.9	183.6	205.5	209.9
8.7	87.5°	8.7	30.6	48.1	78.7	74.3	91.8	96.2	109.3	118.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
52824.2
53042.8
54525.1
55036.6
54240.8
52741.1
50314.3
46086.1
40922.2
34805.1
29256.4
23441.0
18312.0
13139.4
8565.7
5776.1
4101.4
3034.5
2439.9
2068.2
1832.1
1683.4
1578.5
1491.0
1425.4
1368.6
1272.4
1150.0
1001.3
835.1
690.9
555.3
424.1
310.4
205.5
113.7
0.0

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