

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: P637539

Luminaire Tested: **IFLD-M-SA4E-722-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637539
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-722-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25050.6 lumens
Efficiency: N/A
Efficacy: 79.6 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): 314.8
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



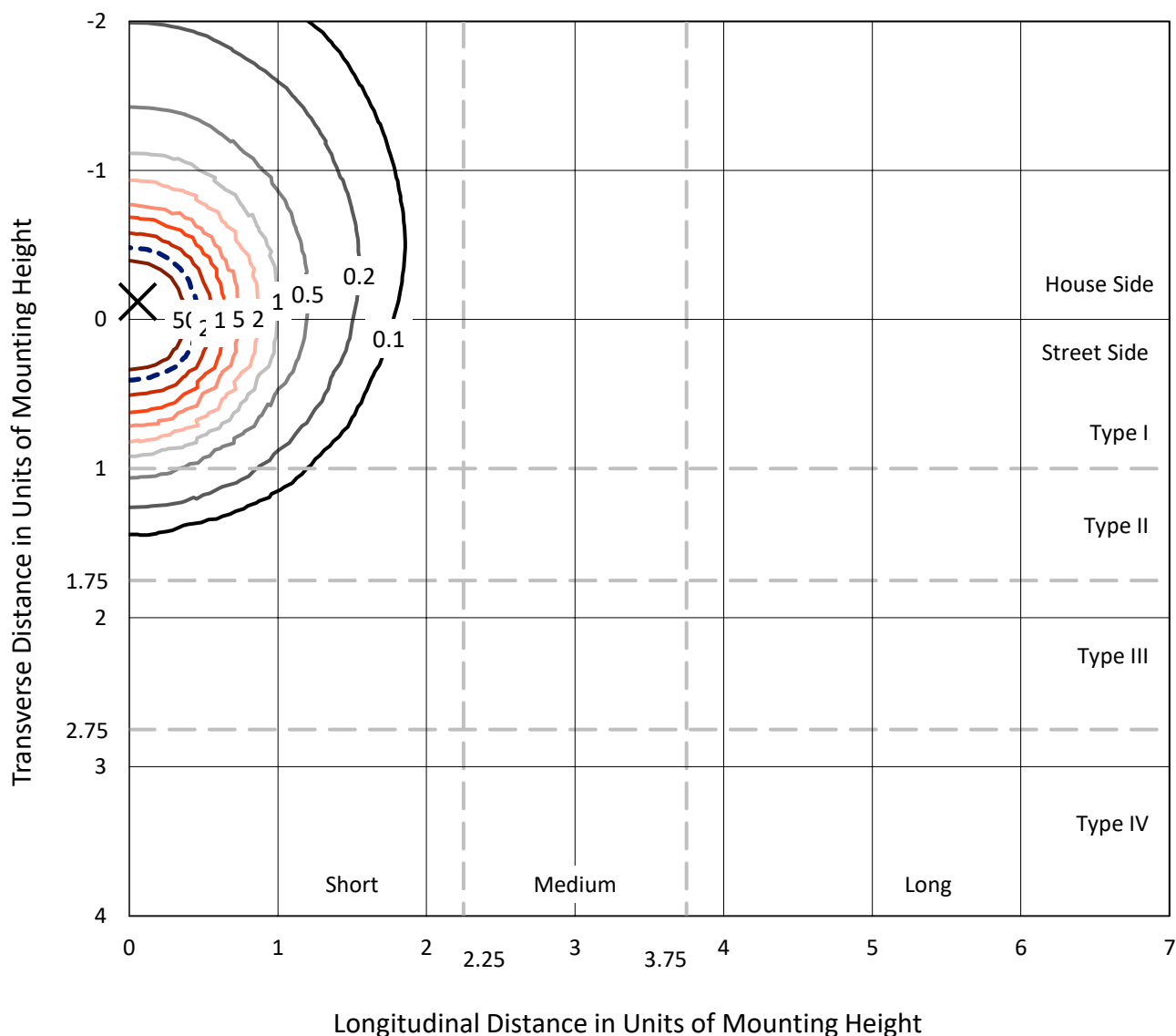
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

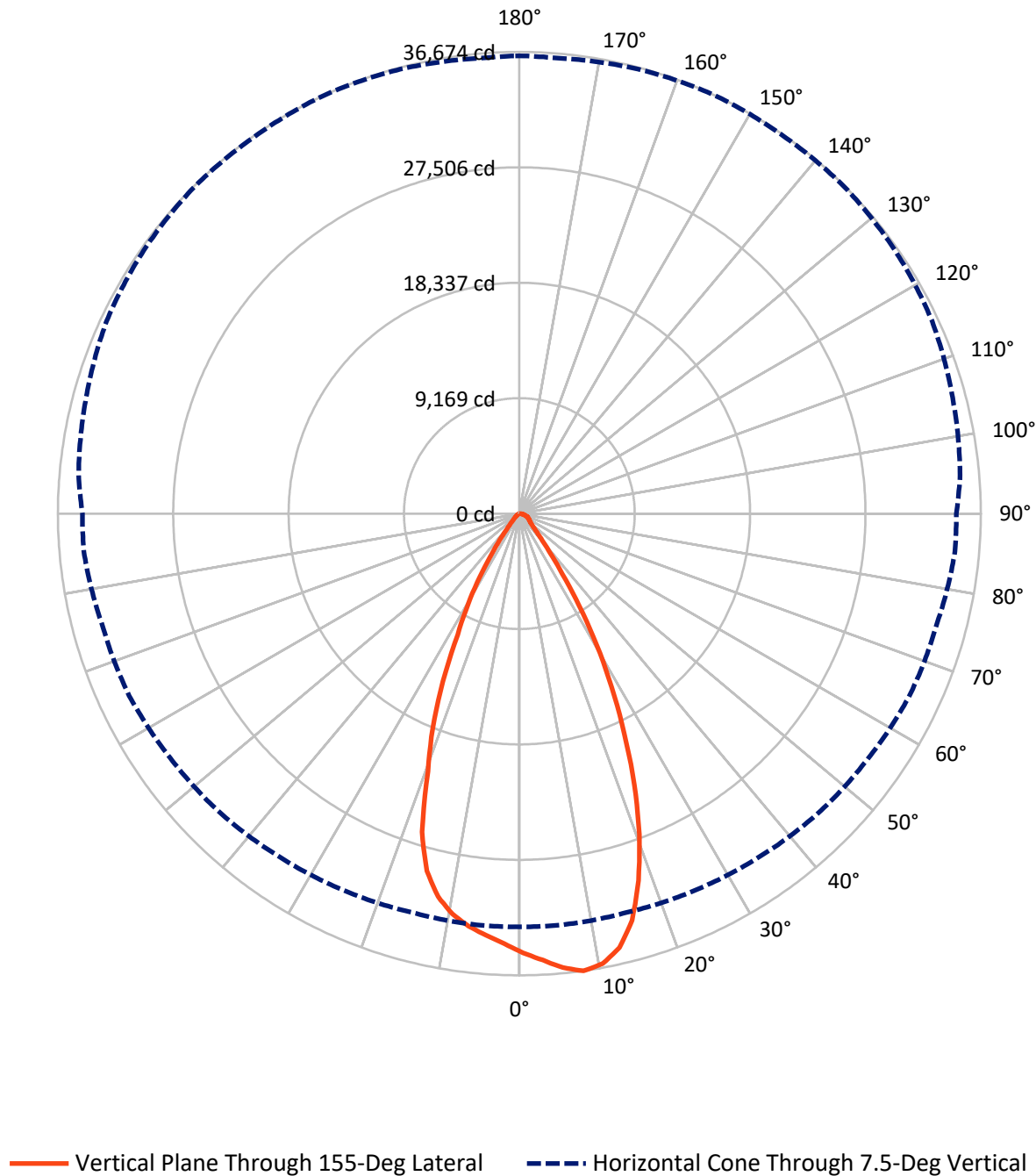


Based on 20 foot mounting height. Maximum calculated value = 88.7 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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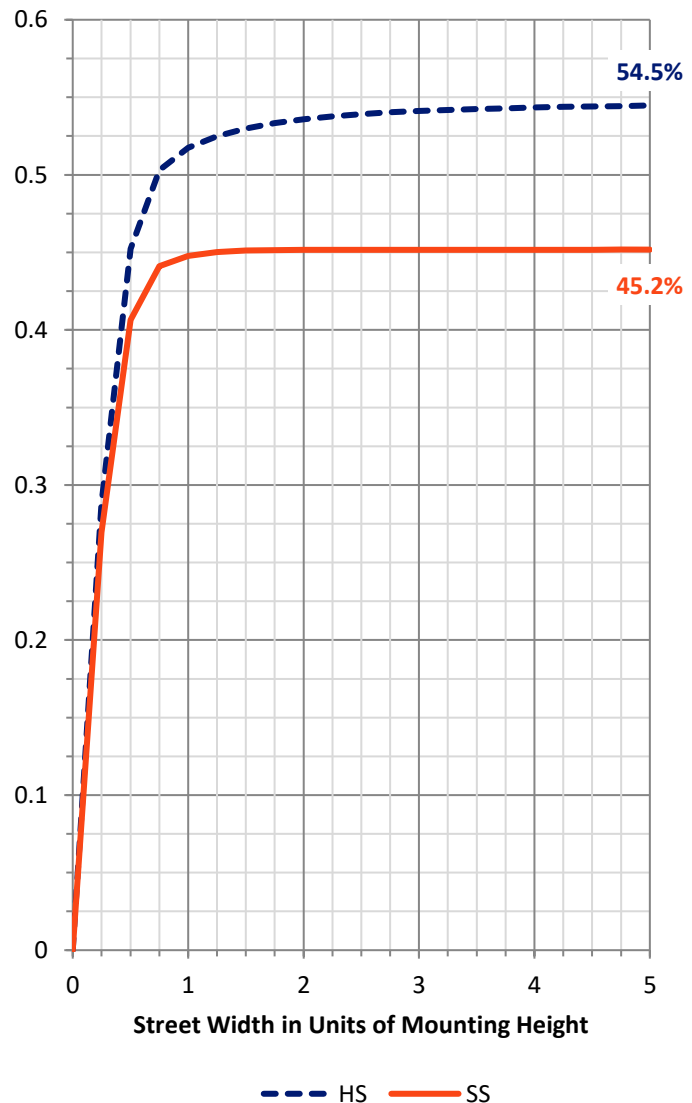
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13828.9	0.0	13828.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	11221.8	0.0	11221.8
	% Fixture	44.8	0.0	44.8
Total	Lumens	25050.6	0.0	25050.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3327.7	13.3
10°-20°	8628.7	34.4
20°-30°	7906.3	31.6
30°-40°	3194.2	12.8
40°-50°	937.0	3.7
50°-60°	523.9	2.1
60°-70°	318.2	1.3
70°-80°	161.7	0.6
80°-90°	52.9	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°	25050.6	100.0
0°-180°	25050.6	100.0

Coefficient of Utilization



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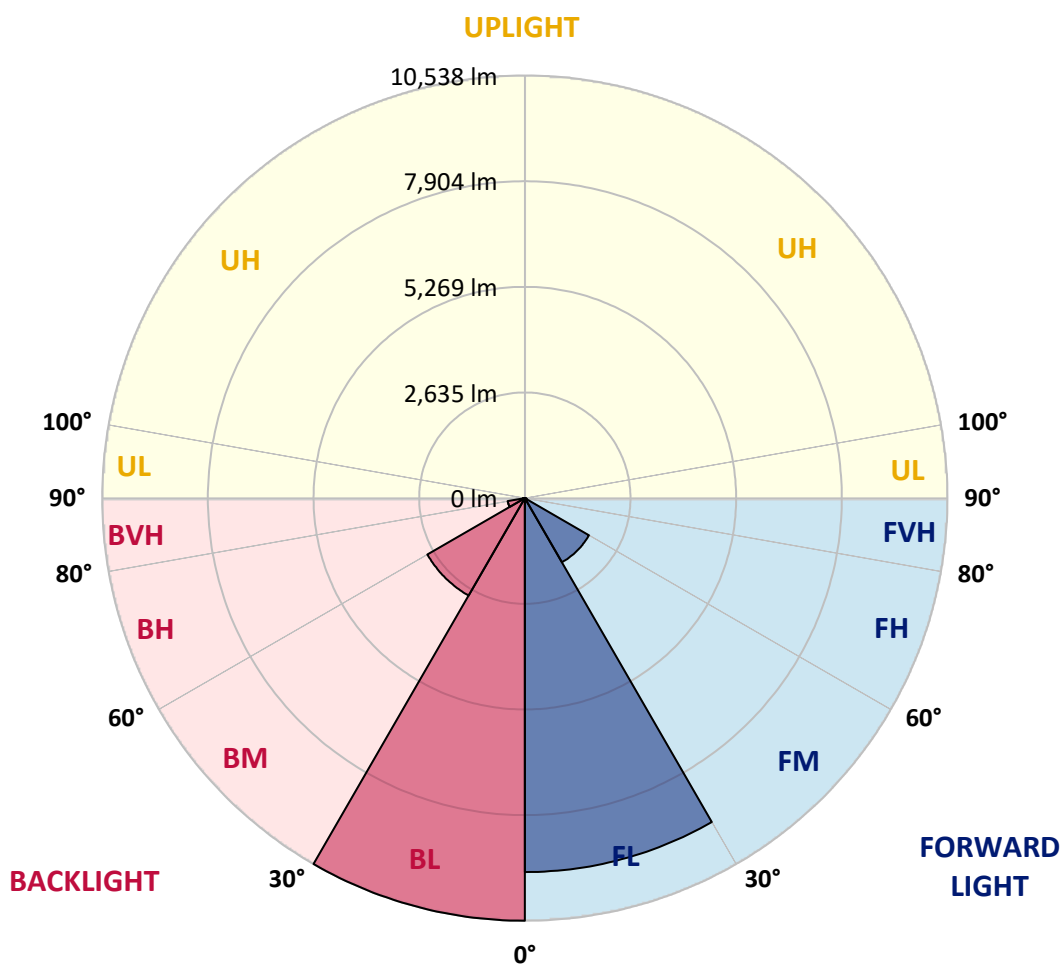
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9324.5	37.2			
FM	(30°-60°)	1847.9	7.4			
FH	(60°-80°)	44.8	0.2			G0/660
FVH	(80°-90°)	4.6	0.0			G0/10
BL	(0°-30°)	10538.3	42.1	B5		
BM	(30°-60°)	2807.1	11.2	B3/5000		
BH	(60°-80°)	435.1	1.7	B1/500		G1/500
BVH	(80°-90°)	48.3	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°	34897.5	34897.5	34897.5	34897.5	34897.5	34897.5	34897.5	34897.5	34897.5	34897.5
2.5°	34140.7	34256.2	34025.1	34178.2	34296.7	34579.7	34602.8	34701.1	34735.7	34992.8
5°	33493.6	33583.2	33395.4	33600.5	33768.0	34019.3	34212.9	34484.4	34634.6	34937.9
7.5°	32820.6	32840.8	32803.2	33019.9	33271.2	33617.8	33857.6	34212.9	34305.3	34738.6
10°	32006.0	31858.7	31930.9	32248.6	32624.1	33155.6	33320.3	33675.6	33840.2	34282.2
12.5°	30706.1	30781.2	30691.6	31096.1	31408.0	32011.7	32185.1	32543.3	32858.1	33248.1
15°	28874.7	28831.4	29013.4	29328.2	29666.2	30145.7	30425.9	30815.9	31055.6	31460.0
17.5°	24758.4	24905.7	25656.8	26445.4	27138.6	27699.0	28034.1	28357.6	28531.0	28970.0
20°	21381.6	21196.7	21297.8	21742.7	23715.6	24573.5	24926.0	25003.9	25076.2	25422.8
22.5°	17606.2	17545.5	17883.5	18383.2	18851.2	20829.9	21309.4	21127.4	21277.6	21604.0
25°	13073.9	13380.1	13680.5	14639.6	15246.2	16216.7	17126.7	17207.5	17262.4	17467.5
27.5°	10641.7	10534.8	10529.0	10797.7	11693.2	12502.0	13276.1	13455.2	13423.4	13619.9
30°	8365.5	8330.8	8209.5	8273.0	8183.5	8902.7	9266.7	10003.3	9962.9	9968.6
32.5°	6034.3	5904.4	5855.2	5950.6	5858.1	5791.7	6109.4	6941.4	6926.9	6984.7
35°	3651.2	3633.9	3674.3	3758.1	3573.2	3567.5	3633.9	4416.7	4512.0	4604.5
37.5°	2016.3	1998.9	2030.7	2339.8	2279.1	2224.2	2241.6	2654.6	2929.1	2998.4
40°	1328.8	1325.9	1349.0	1403.9	1507.9	1487.6	1496.3	1681.2	1941.2	2001.8
42.5°	889.7	892.6	907.0	970.6	985.0	1089.0	1071.7	1115.0	1357.7	1409.6
45°	710.6	707.7	716.4	687.5	704.8	811.7	823.3	826.1	1034.1	1065.9
47.5°	560.4	560.4	569.1	531.5	522.8	589.3	649.9	658.6	826.1	869.5
50°	392.9	392.9	436.2	418.9	439.1	459.3	525.7	534.4	675.9	722.2
52.5°	288.9	294.6	300.4	303.3	369.7	366.9	424.6	465.1	511.3	592.2
55°	219.5	225.3	210.9	225.3	274.4	306.2	317.7	375.5	407.3	496.8
57.5°	144.4	158.9	147.3	173.3	184.9	236.9	254.2	309.1	329.3	407.3
60°	20.2	23.1	37.6	121.3	130.0	156.0	196.4	245.5	265.8	332.2
62.5°	2.9	2.9	8.7	20.2	86.7	104.0	147.3	170.4	196.4	248.4
65°	0.0	0.0	2.9	5.8	17.3	60.7	75.1	92.4	135.8	179.1
67.5°	0.0	0.0	2.9	5.8	8.7	20.2	31.8	60.7	78.0	124.2
70°	0.0	0.0	2.9	5.8	8.7	11.6	17.3	23.1	46.2	72.2
72.5°	0.0	0.0	2.9	5.8	8.7	11.6	14.4	17.3	20.2	46.2
75°	0.0	0.0	2.9	5.8	8.7	14.4	17.3	17.3	17.3	20.2
77.5°	0.0	0.0	2.9	5.8	11.6	17.3	20.2	17.3	14.4	14.4
80°	0.0	0.0	2.9	8.7	14.4	20.2	23.1	17.3	11.6	8.7
82.5°	0.0	0.0	2.9	8.7	14.4	20.2	23.1	20.2	11.6	8.7
85°	0.0	0.0	2.9	8.7	11.6	14.4	23.1	20.2	11.6	5.8
87.5°	0.0	0.0	0.0	2.9	2.9	5.8	11.6	8.7	5.8	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°
34897.5	0°	34897.5	34897.5	34897.5	34897.5	34897.5	34897.5	34897.5	34897.5	34897.5
34987.0	2.5°	35247.0	35377.0	35605.2	35668.7	35865.2	35639.9	35515.7	35527.2	35258.6
34900.4	5°	35247.0	35544.5	35943.2	36133.8	36278.2	36266.7	36234.9	36154.0	35957.6
34727.1	7.5°	35154.6	35639.9	36188.7	36442.9	36616.2	36601.8	36674.0	36544.0	36304.2
34418.0	10°	34857.0	35278.8	35954.7	36162.7	36442.9	36448.7	36359.1	36385.1	35957.6
33288.5	12.5°	33921.1	34250.4	34842.6	35079.5	35420.3	35475.2	35377.0	35339.4	34935.0
31436.9	15°	32110.0	32300.6	32895.7	33132.5	33470.5	33424.3	33522.5	33482.1	33126.8
28935.4	17.5°	29461.1	29521.8	30145.7	30345.0	30662.8	30787.0	30639.7	30827.4	30521.2
25483.5	20°	25662.5	25989.0	26690.9	26997.1	27182.0	27404.4	27210.9	27421.7	27063.5
21294.9	22.5°	21809.1	22002.7	22638.2	23080.1	23423.9	23467.2	23395.0	23542.3	23059.9
17603.3	25°	17600.4	17921.0	18423.7	19001.4	19339.3	19547.3	19359.6	19454.9	19376.9
13651.6	27.5°	13882.7	14168.7	14547.1	14977.5	15485.9	15757.5	15607.2	15769.0	15387.7
10179.5	30°	10188.2	10332.6	10760.1	11216.5	11774.0	12103.3	12117.8	12282.4	12057.1
7132.0	32.5°	7184.0	7311.1	7574.0	7877.3	8408.8	8775.6	8717.9	8741.0	8602.3
4647.8	35°	4670.9	4841.3	5029.1	5173.5	5494.2	5898.6	5866.8	5837.9	5742.6
3056.2	37.5°	3122.6	3189.0	3293.0	3423.0	3631.0	3885.2	3969.0	3865.0	3824.5
2062.5	40°	2111.6	2227.1	2296.5	2394.7	2492.9	2706.6	2764.4	2744.2	2703.8
1444.3	42.5°	1499.2	1588.7	1675.4	1770.7	1822.7	1955.6	2068.3	2036.5	2019.1
1097.7	45°	1138.1	1219.0	1320.1	1392.3	1444.3	1522.3	1629.2	1640.7	1614.7
881.0	47.5°	912.8	985.0	1065.9	1155.5	1216.1	1265.2	1357.7	1392.3	1375.0
742.4	50°	774.2	829.0	907.0	996.6	1063.0	1106.3	1187.2	1224.8	1213.2
621.1	52.5°	658.6	725.0	797.3	872.4	953.2	996.6	1071.7	1126.6	1117.9
514.2	55°	546.0	632.6	707.7	782.8	875.3	918.6	985.0	1057.2	1042.8
436.2	57.5°	476.6	548.8	626.8	699.0	797.3	855.0	915.7	990.8	987.9
358.2	60°	398.6	470.8	557.5	618.2	722.2	803.0	857.9	935.9	941.7
271.5	62.5°	317.7	407.3	473.7	557.5	652.8	748.2	800.1	878.1	907.0
208.0	65°	236.9	335.1	410.2	494.0	583.5	690.4	736.6	814.6	843.5
150.2	67.5°	176.2	251.3	346.6	418.9	520.0	612.4	667.3	739.5	759.7
89.5	70°	132.9	193.5	288.9	352.4	456.4	531.5	586.4	641.3	667.3
60.7	72.5°	78.0	144.4	228.2	303.3	392.9	456.4	496.8	540.2	557.5
28.9	75°	54.9	109.8	179.1	251.3	317.7	369.7	407.3	444.8	462.2
14.4	77.5°	28.9	80.9	141.5	202.2	248.4	291.8	329.3	358.2	369.7
11.6	80°	17.3	57.8	115.5	158.9	190.6	228.2	265.8	286.0	283.1
8.7	82.5°	11.6	46.2	83.8	115.5	138.7	167.5	193.5	208.0	208.0
5.8	85°	8.7	31.8	57.8	89.5	92.4	115.5	121.3	135.8	138.7
5.8	87.5°	5.8	20.2	31.8	52.0	49.1	60.7	63.5	72.2	78.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
34897.5
35041.9
36021.2
36359.1
35833.4
34842.6
33239.4
30446.1
27034.6
22993.5
19327.8
15485.9
12097.6
8680.3
5658.8
3815.9
2709.5
2004.7
1611.9
1366.3
1210.3
1112.1
1042.8
985.0
941.7
904.1
840.6
759.7
661.5
551.7
456.4
366.9
280.2
205.1
135.8
75.1
0.0

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