

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: P637593

Luminaire Tested: **IFLD-M-SA4A-730-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637593
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-730-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15796.3 lumens
Efficiency: N/A
Efficacy: 122.8 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): 128.6
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



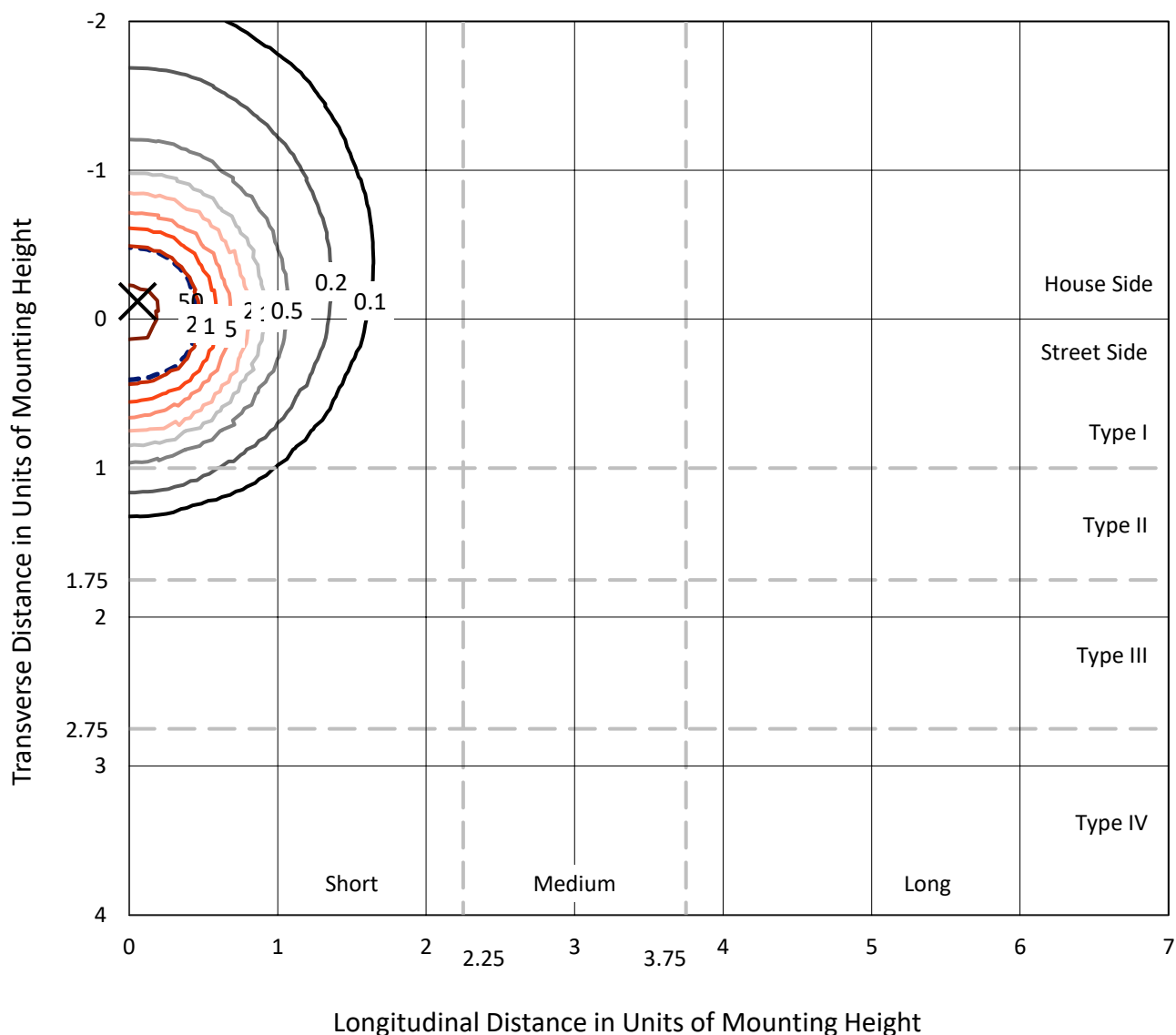
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

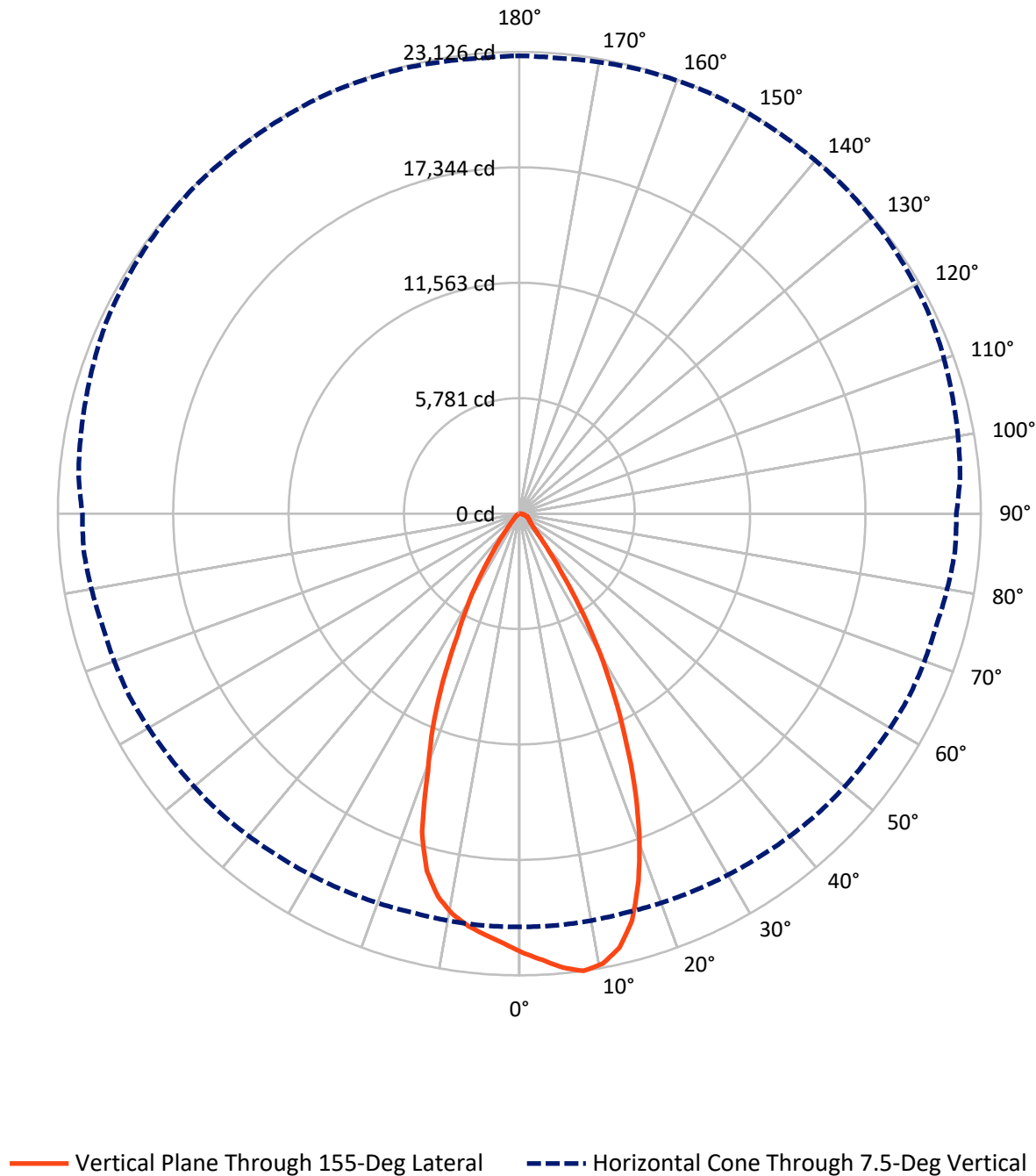


Based on 20 foot mounting height. Maximum calculated value = 55.9 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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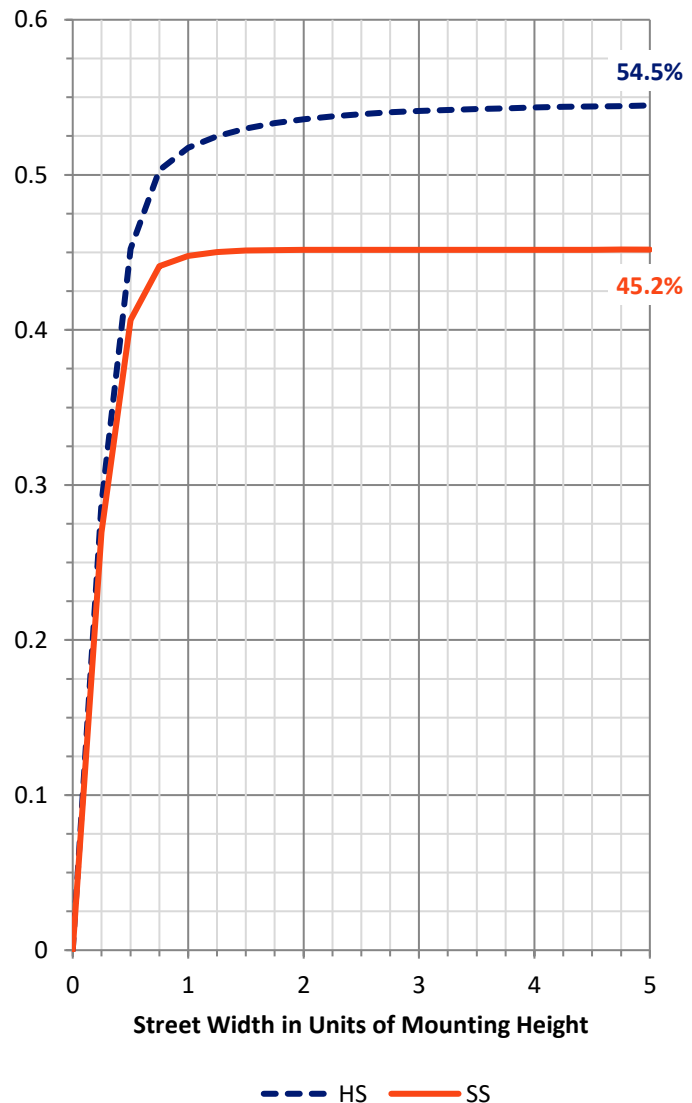
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8720.2	0.0	8720.2
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	7076.2	0.0	7076.2
	% Fixture	44.8	0.0	44.8
Total	Lumens	15796.3	0.0	15796.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2098.4	13.3
10°-20°	5441.1	34.4
20°-30°	4985.5	31.6
30°-40°	2014.2	12.8
40°-50°	590.9	3.7
50°-60°	330.4	2.1
60°-70°	200.7	1.3
70°-80°	101.9	0.6
80°-90°	33.3	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°	15796.3	100.0
0°-180°	15796.3	100.0

Coefficient of Utilization



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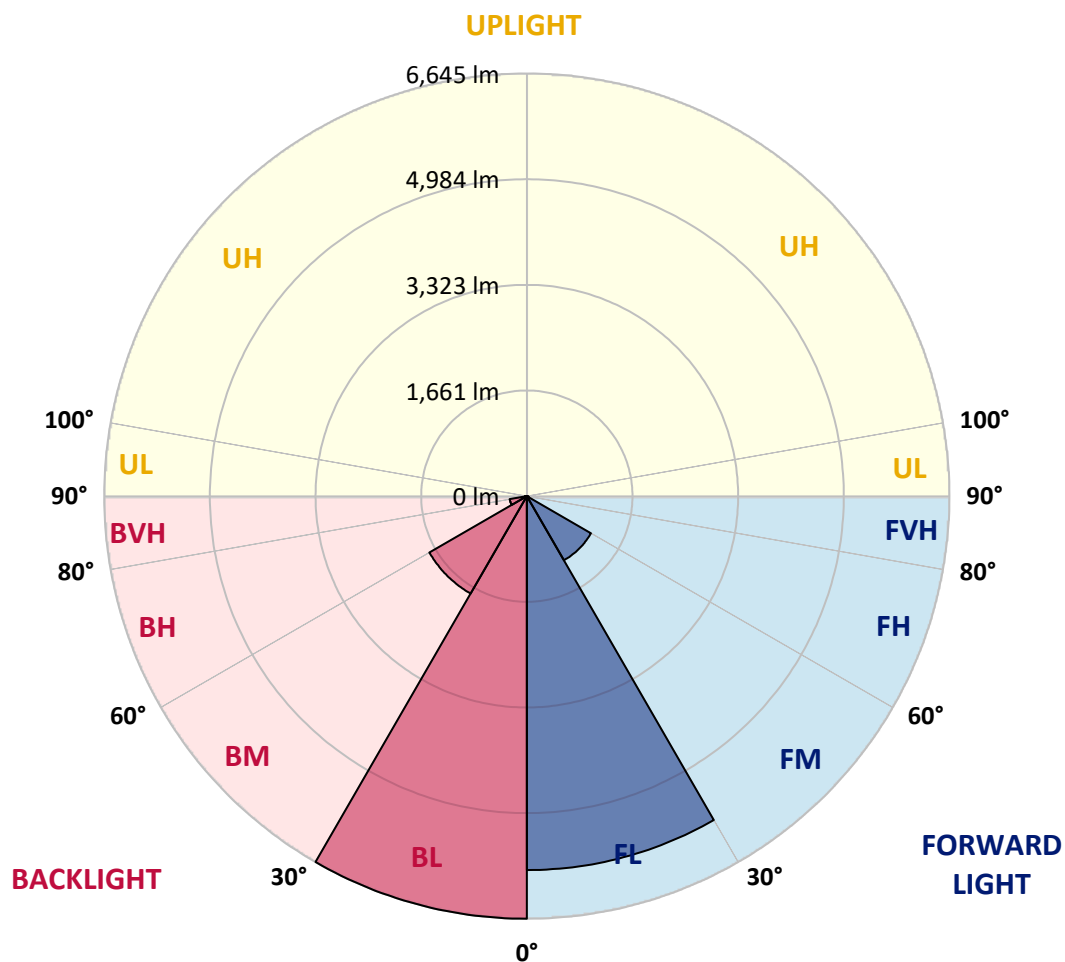
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5879.8	37.2			
FM	(30°-60°)	1165.3	7.4			
FH	(60°-80°)	28.2	0.2			G0/660
FVH	(80°-90°)	2.9	0.0			G0/10
BL	(0°-30°)	6645.2	42.1	B5		
BM	(30°-60°)	1770.1	11.2	B2/2500		
BH	(60°-80°)	274.4	1.7	B1/500		G1/500
BVH	(80°-90°)	30.5	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°	22005.5	22005.5	22005.5	22005.5	22005.5	22005.5	22005.5	22005.5	22005.5	22005.5
2.5°	21528.3	21601.1	21455.4	21552.0	21626.6	21805.1	21819.7	21881.6	21903.5	22065.6
5°	21120.3	21176.7	21058.3	21187.7	21293.3	21451.8	21573.8	21745.0	21839.8	22031.0
7.5°	20695.9	20708.6	20684.9	20821.5	20980.0	21198.6	21349.8	21573.8	21632.1	21905.3
10°	20182.2	20089.3	20134.8	20335.2	20572.0	20907.1	21011.0	21235.0	21338.8	21617.5
12.5°	19362.5	19409.9	19353.4	19608.4	19805.1	20185.8	20295.1	20521.0	20719.5	20965.4
15°	18207.7	18180.4	18295.1	18493.7	18706.8	19009.1	19185.8	19431.7	19582.9	19837.9
17.5°	15612.1	15704.9	16178.5	16675.8	17113.0	17466.3	17677.6	17881.6	17990.9	18267.8
20°	13482.7	13366.1	13429.9	13710.4	14954.5	15495.5	15717.7	15766.9	15812.4	16031.0
22.5°	11102.0	11063.8	11276.9	11592.0	11887.1	13134.8	13437.2	13322.4	13417.1	13623.0
25°	8244.1	8437.2	8626.6	9231.3	9613.9	10225.9	10799.7	10850.7	10885.3	11014.6
27.5°	6710.4	6643.0	6639.4	6808.8	7373.4	7883.4	8371.6	8484.5	8464.5	8588.4
30°	5275.1	5253.2	5176.7	5216.8	5160.3	5613.9	5843.4	6307.8	6282.3	6286.0
32.5°	3805.1	3723.1	3692.2	3752.3	3694.0	3652.1	3852.5	4377.1	4368.0	4404.4
35°	2302.4	2291.4	2316.9	2369.8	2253.2	2249.5	2291.4	2785.1	2845.2	2903.5
37.5°	1271.4	1260.5	1280.5	1475.4	1437.2	1402.6	1413.5	1674.0	1847.0	1890.7
40°	837.9	836.1	850.6	885.2	950.8	938.1	943.5	1060.1	1224.0	1262.3
42.5°	561.0	562.8	572.0	612.0	621.1	686.7	675.8	703.1	856.1	888.9
45°	448.1	446.3	451.7	433.5	444.4	511.8	519.1	520.9	652.1	672.1
47.5°	353.4	353.4	358.8	335.2	329.7	371.6	409.8	415.3	520.9	548.3
50°	247.7	247.7	275.0	264.1	276.9	289.6	331.5	337.0	426.2	455.4
52.5°	182.1	185.8	189.4	191.3	233.2	231.3	267.8	293.3	322.4	373.4
55°	138.4	142.1	133.0	142.1	173.0	193.1	200.4	236.8	256.8	313.3
57.5°	91.1	100.2	92.9	109.3	116.6	149.4	160.3	194.9	207.7	256.8
60°	12.8	14.6	23.7	76.5	82.0	98.4	123.9	154.8	167.6	209.5
62.5°	1.8	1.8	5.5	12.8	54.6	65.6	92.9	107.5	123.9	156.6
65°	0.0	0.0	1.8	3.6	10.9	38.3	47.4	58.3	85.6	112.9
67.5°	0.0	0.0	1.8	3.6	5.5	12.8	20.0	38.3	49.2	78.3
70°	0.0	0.0	1.8	3.6	5.5	7.3	10.9	14.6	29.1	45.5
72.5°	0.0	0.0	1.8	3.6	5.5	7.3	9.1	10.9	12.8	29.1
75°	0.0	0.0	1.8	3.6	5.5	9.1	10.9	10.9	10.9	12.8
77.5°	0.0	0.0	1.8	3.6	7.3	10.9	12.8	10.9	9.1	9.1
80°	0.0	0.0	1.8	5.5	9.1	12.8	14.6	10.9	7.3	5.5
82.5°	0.0	0.0	1.8	5.5	9.1	12.8	14.6	12.8	7.3	5.5
85°	0.0	0.0	1.8	5.5	7.3	9.1	14.6	12.8	7.3	3.6
87.5°	0.0	0.0	0.0	1.8	1.8	3.6	7.3	5.5	3.6	1.8
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°
22005.5	0°	22005.5	22005.5	22005.5	22005.5	22005.5	22005.5	22005.5	22005.5	22005.5
22062.0	2.5°	22225.9	22307.9	22451.8	22491.8	22615.7	22473.6	22395.3	22402.6	22233.2
22007.3	5°	22225.9	22413.5	22664.9	22785.1	22876.2	22868.9	22848.9	22797.9	22674.0
21898.0	7.5°	22167.6	22473.6	22819.7	22980.0	23089.3	23080.2	23125.7	23043.8	22892.6
21703.1	10°	21980.0	22245.9	22672.2	22803.3	22980.0	22983.7	22927.2	22943.6	22674.0
20990.9	12.5°	21389.8	21597.5	21970.9	22120.3	22335.2	22369.8	22307.9	22284.2	22029.2
19823.4	15°	20247.8	20368.0	20743.2	20892.6	21105.7	21076.5	21138.5	21113.0	20888.9
18245.9	17.5°	18577.5	18615.7	19009.1	19134.8	19335.2	19413.5	19320.6	19439.0	19245.9
16069.2	20°	16182.2	16388.0	16830.6	17023.7	17140.3	17280.5	17158.5	17291.5	17065.6
13428.1	22.5°	13752.3	13874.3	14275.1	14553.8	14770.5	14797.8	14752.3	14845.2	14541.0
11100.2	25°	11098.4	11300.6	11617.5	11981.8	12194.9	12326.1	12207.7	12267.8	12218.6
8608.4	27.5°	8754.1	8934.4	9173.1	9444.5	9765.0	9936.3	9841.5	9943.6	9703.1
6419.0	30°	6424.4	6515.5	6785.1	7072.9	7424.4	7632.1	7641.2	7745.0	7602.9
4497.3	32.5°	4530.1	4610.2	4776.0	4967.2	5302.4	5533.7	5497.3	5511.9	5424.4
2930.8	35°	2945.4	3052.8	3171.2	3262.3	3464.5	3719.5	3699.5	3681.2	3621.1
1927.1	37.5°	1969.0	2010.9	2076.5	2158.5	2289.6	2449.9	2502.7	2437.2	2411.7
1300.5	40°	1331.5	1404.4	1448.1	1510.0	1572.0	1706.7	1743.2	1730.4	1704.9
910.7	42.5°	945.4	1001.8	1056.5	1116.6	1149.4	1233.2	1304.2	1284.2	1273.2
692.2	45°	717.7	768.7	832.4	878.0	910.7	959.9	1027.3	1034.6	1018.2
555.6	47.5°	575.6	621.1	672.1	728.6	766.9	797.8	856.1	878.0	867.0
468.1	50°	488.2	522.8	572.0	628.4	670.3	697.6	748.6	772.3	765.0
391.6	52.5°	415.3	457.2	502.7	550.1	601.1	628.4	675.8	710.4	704.9
324.2	55°	344.3	398.9	446.3	493.6	551.9	579.2	621.1	666.7	657.6
275.0	57.5°	300.5	346.1	395.3	440.8	502.7	539.2	577.4	624.8	623.0
225.9	60°	251.4	296.9	351.5	389.8	455.4	506.4	541.0	590.2	593.8
171.2	62.5°	200.4	256.8	298.7	351.5	411.7	471.8	504.6	553.7	572.0
131.1	65°	149.4	211.3	258.7	311.5	367.9	435.3	464.5	513.7	531.9
94.7	67.5°	111.1	158.5	218.6	264.1	327.9	386.2	420.8	466.3	479.1
56.5	70°	83.8	122.0	182.1	222.2	287.8	335.2	369.8	404.4	420.8
38.3	72.5°	49.2	91.1	143.9	191.3	247.7	287.8	313.3	340.6	351.5
18.2	75°	34.6	69.2	112.9	158.5	200.4	233.2	256.8	280.5	291.4
9.1	77.5°	18.2	51.0	89.3	127.5	156.6	184.0	207.7	225.9	233.2
7.3	80°	10.9	36.4	72.9	100.2	120.2	143.9	167.6	180.3	178.5
5.5	82.5°	7.3	29.1	52.8	72.9	87.4	105.6	122.0	131.1	131.1
3.6	85°	5.5	20.0	36.4	56.5	58.3	72.9	76.5	85.6	87.4
3.6	87.5°	3.6	12.8	20.0	32.8	31.0	38.3	40.1	45.5	49.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
22005.5
22096.6
22714.1
22927.2
22595.7
21970.9
20960.0
19198.6
17047.4
14499.1
12187.6
9765.0
7628.4
5473.6
3568.3
2406.2
1708.6
1264.1
1016.4
861.6
763.2
701.3
657.6
621.1
593.8
570.1
530.1
479.1
417.1
347.9
287.8
231.3
176.7
129.3
85.6
47.4
0.0

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