

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: P637579

Luminaire Tested: **IFLD-S-SA2B-730-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637579
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-730-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9766.4 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 82.4
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



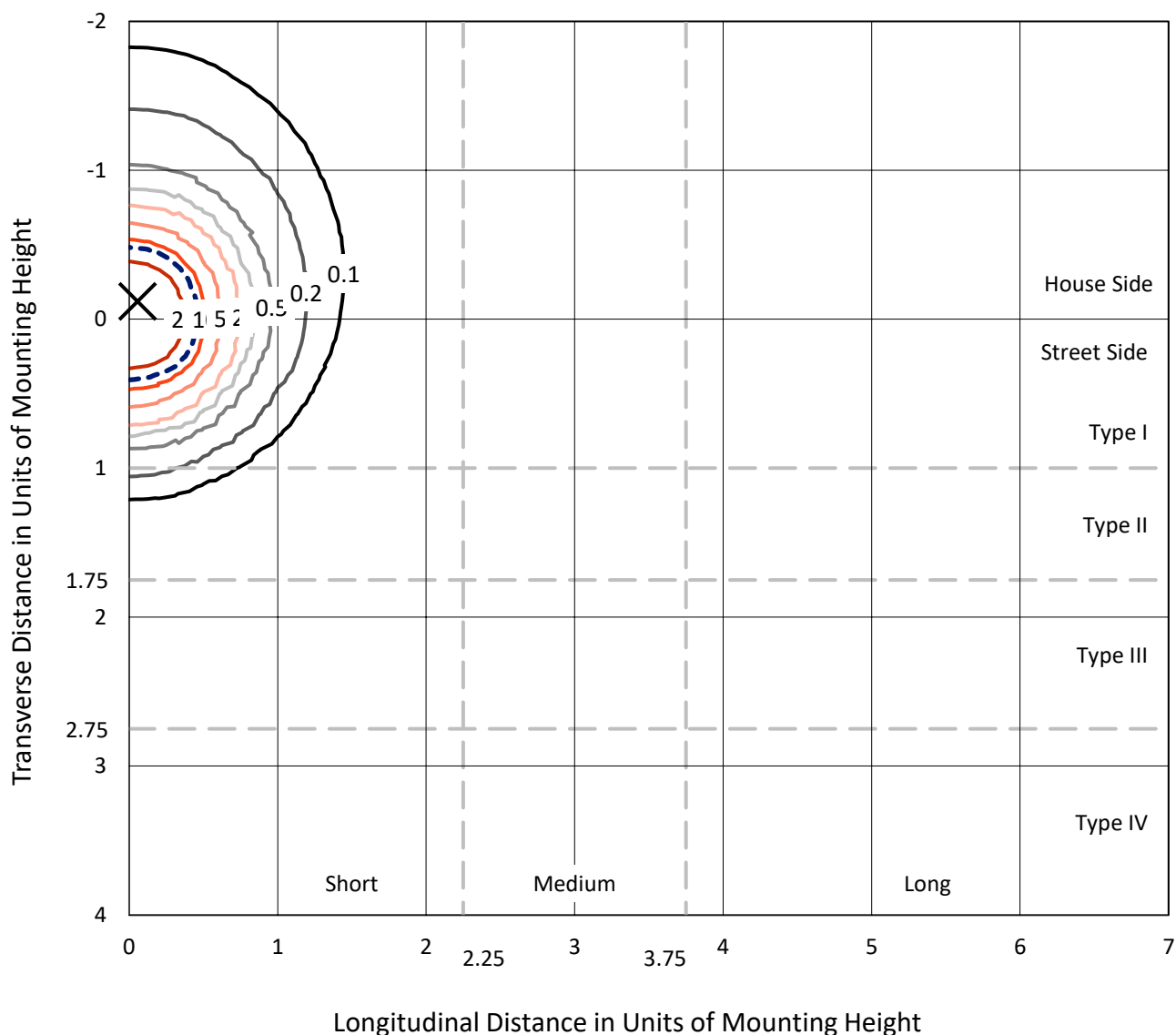
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



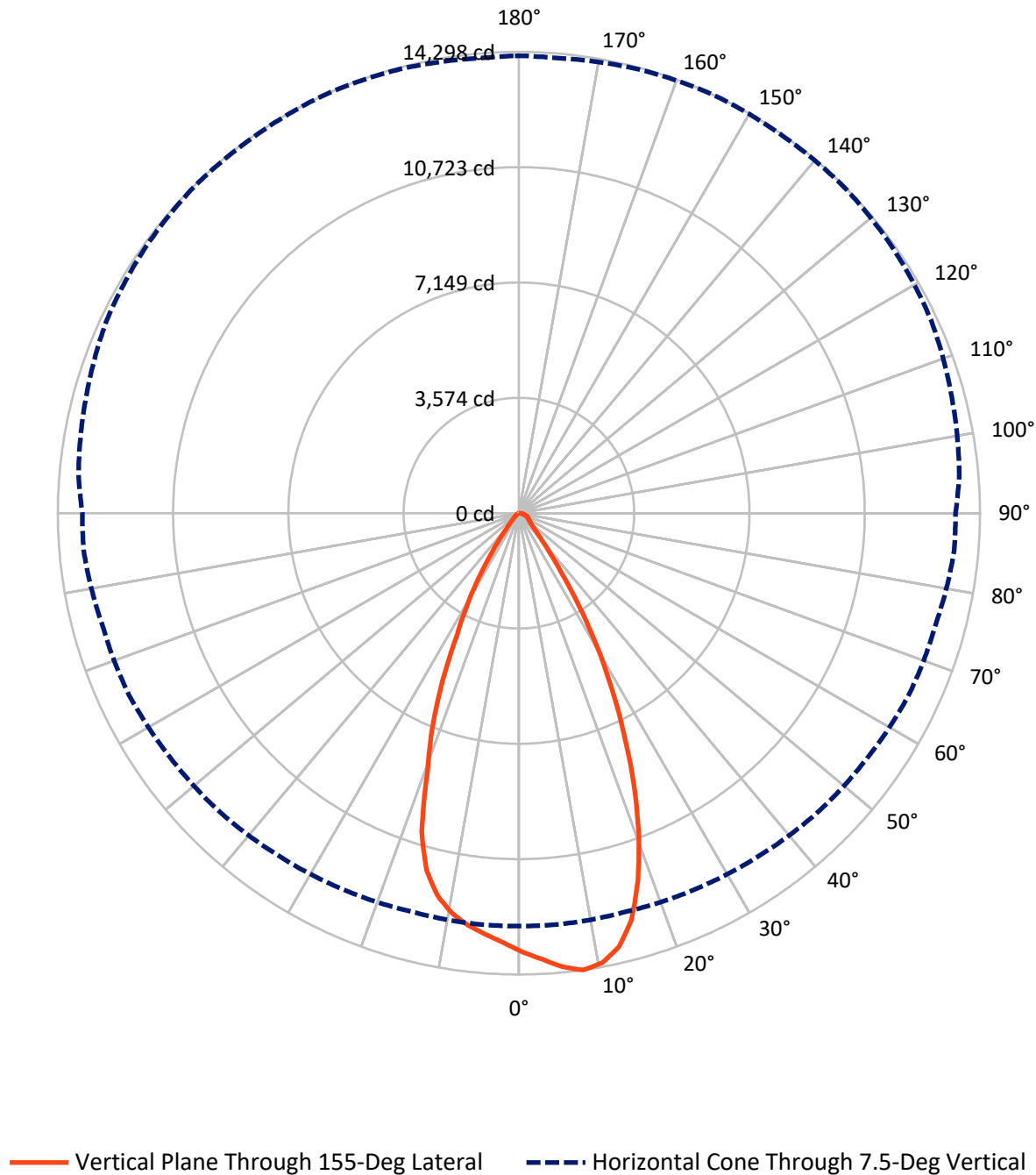
Based on 20 foot mounting height. Maximum calculated value = 34.6 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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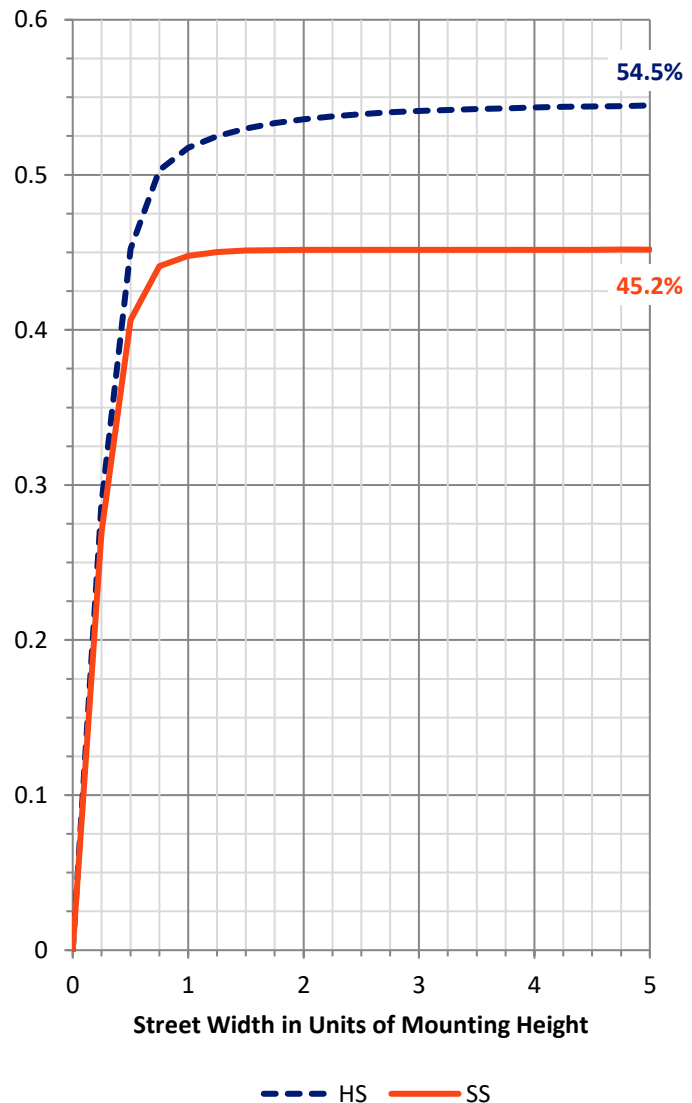
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5391.4	0.0	5391.4
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	4375.0	0.0	4375.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	9766.4	0.0	9766.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1297.4	13.3
10°-20°	3364.0	34.4
20°-30°	3082.4	31.6
30°-40°	1245.3	12.8
40°-50°	365.3	3.7
50°-60°	204.2	2.1
60°-70°	124.1	1.3
70°-80°	63.0	0.6
80°-90°	20.6	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°	9766.4	100.0
0°-180°	9766.4	100.0

Coefficient of Utilization



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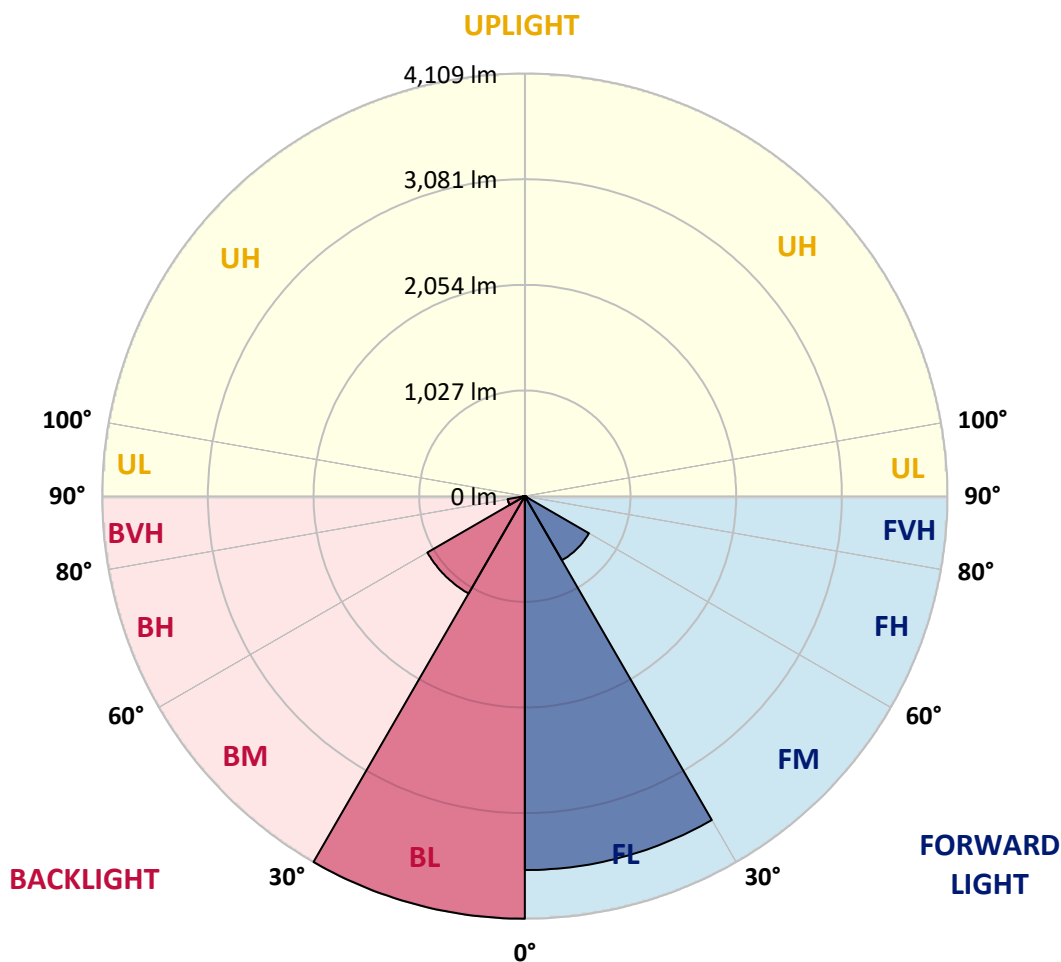
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3635.3	37.2			
FM	(30°-60°)	720.5	7.4			
FH	(60°-80°)	17.5	0.2			G0/660
FVH	(80°-90°)	1.8	0.0			G0/10
BL	(0°-30°)	4108.5	42.1	B4/5000		
BM	(30°-60°)	1094.4	11.2	B2/2500		
BH	(60°-80°)	169.6	1.7	B1/500		G1/500
BVH	(80°-90°)	18.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13605.3	13605.3	13605.3	13605.3	13605.3	13605.3	13605.3	13605.3	13605.3	13605.3
2.5°	13310.2	13355.3	13265.2	13324.9	13371.0	13481.4	13490.4	13528.7	13542.2	13642.5
5°	13058.0	13092.9	13019.7	13099.6	13165.0	13262.9	13338.4	13444.2	13502.8	13621.1
7.5°	12795.6	12803.5	12788.8	12873.3	12971.3	13106.4	13199.9	13338.4	13374.4	13543.3
10°	12478.0	12420.6	12448.7	12572.6	12719.0	12926.2	12990.4	13128.9	13193.1	13365.4
12.5°	11971.2	12000.5	11965.6	12123.2	12244.9	12480.2	12547.8	12687.5	12810.2	12962.2
15°	11257.2	11240.3	11311.3	11434.0	11565.8	11752.7	11862.0	12014.0	12107.5	12265.1
17.5°	9652.4	9709.9	10002.7	10310.1	10580.4	10798.9	10929.5	11055.6	11123.2	11294.4
20°	8335.9	8263.9	8303.3	8476.7	9245.9	9580.3	9717.7	9748.1	9776.3	9911.4
22.5°	6864.0	6840.4	6972.1	7167.0	7349.4	8120.8	8307.8	8236.8	8295.4	8422.6
25°	5097.1	5216.4	5333.6	5707.4	5943.9	6322.3	6677.1	6708.6	6730.0	6810.0
27.5°	4148.8	4107.2	4104.9	4209.6	4558.7	4874.1	5175.9	5245.7	5233.3	5309.9
30°	3261.4	3247.9	3200.6	3225.4	3190.4	3470.9	3612.8	3899.9	3884.2	3886.4
32.5°	2352.6	2301.9	2282.8	2319.9	2283.9	2258.0	2381.9	2706.2	2700.6	2723.1
35°	1423.5	1416.7	1432.5	1465.2	1393.1	1390.8	1416.7	1721.9	1759.1	1795.1
37.5°	786.1	779.3	791.7	912.2	888.5	867.2	873.9	1035.0	1141.9	1169.0
40°	518.0	516.9	525.9	547.3	587.9	580.0	583.4	655.4	756.8	780.4
42.5°	346.9	348.0	353.6	378.4	384.0	424.6	417.8	434.7	529.3	549.6
45°	277.0	275.9	279.3	268.0	274.8	316.5	321.0	322.1	403.2	415.6
47.5°	218.5	218.5	221.9	207.2	203.8	229.7	253.4	256.8	322.1	339.0
50°	153.2	153.2	170.1	163.3	171.2	179.1	205.0	208.3	263.5	281.5
52.5°	112.6	114.9	117.1	118.2	144.2	143.0	165.5	181.3	199.3	230.9
55°	85.6	87.8	82.2	87.8	107.0	119.4	123.9	146.4	158.8	193.7
57.5°	56.3	61.9	57.4	67.6	72.1	92.3	99.1	120.5	128.4	158.8
60°	7.9	9.0	14.6	47.3	50.7	60.8	76.6	95.7	103.6	129.5
62.5°	1.1	1.1	3.4	7.9	33.8	40.5	57.4	66.4	76.6	96.9
65°	0.0	0.0	1.1	2.3	6.8	23.6	29.3	36.0	52.9	69.8
67.5°	0.0	0.0	1.1	2.3	3.4	7.9	12.4	23.6	30.4	48.4
70°	0.0	0.0	1.1	2.3	3.4	4.5	6.8	9.0	18.0	28.2
72.5°	0.0	0.0	1.1	2.3	3.4	4.5	5.6	6.8	7.9	18.0
75°	0.0	0.0	1.1	2.3	3.4	5.6	6.8	6.8	6.8	7.9
77.5°	0.0	0.0	1.1	2.3	4.5	6.8	7.9	6.8	5.6	5.6
80°	0.0	0.0	1.1	3.4	5.6	7.9	9.0	6.8	4.5	3.4
82.5°	0.0	0.0	1.1	3.4	5.6	7.9	9.0	7.9	4.5	3.4
85°	0.0	0.0	1.1	3.4	4.5	5.6	9.0	7.9	4.5	2.3
87.5°	0.0	0.0	0.0	1.1	1.1	2.3	4.5	3.4	2.3	1.1
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°
13605.3	0°	13605.3	13605.3	13605.3	13605.3	13605.3	13605.3	13605.3	13605.3	13605.3
13640.2	2.5°	13741.6	13792.2	13881.2	13906.0	13982.6	13894.7	13846.3	13850.8	13746.1
13606.4	5°	13741.6	13857.6	14013.0	14087.3	14143.6	14139.1	14126.7	14095.2	14018.6
13538.8	7.5°	13705.5	13894.7	14108.7	14207.8	14275.4	14269.7	14297.9	14247.2	14153.7
13418.3	10°	13589.5	13753.9	14017.5	14098.6	14207.8	14210.0	14175.1	14185.3	14018.6
12978.0	12.5°	13224.6	13353.0	13583.9	13676.2	13809.1	13830.5	13792.2	13777.6	13619.9
12256.1	15°	12518.5	12592.9	12824.9	12917.2	13049.0	13030.9	13069.2	13053.5	12914.9
11280.9	17.5°	11485.8	11509.5	11752.7	11830.4	11954.3	12002.7	11945.3	12018.5	11899.1
9935.1	20°	10004.9	10132.2	10405.8	10525.2	10597.3	10684.0	10608.5	10690.8	10551.1
8302.1	22.5°	8502.6	8578.1	8825.8	8998.1	9132.1	9149.0	9120.9	9178.3	8990.2
6862.9	25°	6861.8	6986.8	7182.7	7408.0	7539.7	7620.8	7547.6	7584.8	7554.4
5322.3	27.5°	5412.4	5523.9	5671.4	5839.2	6037.4	6143.3	6084.7	6147.8	5999.1
3968.6	30°	3972.0	4028.3	4195.0	4372.9	4590.3	4718.7	4724.3	4788.5	4700.6
2780.5	32.5°	2800.8	2850.3	2952.8	3071.1	3278.3	3421.3	3398.8	3407.8	3353.7
1812.0	35°	1821.0	1887.5	1960.7	2017.0	2142.0	2299.6	2287.3	2276.0	2238.8
1191.5	37.5°	1217.4	1243.3	1283.8	1334.5	1415.6	1514.7	1547.4	1506.8	1491.1
804.1	40°	823.2	868.3	895.3	933.6	971.9	1055.2	1077.7	1069.9	1054.1
563.1	42.5°	584.5	619.4	653.2	690.3	710.6	762.4	806.3	794.0	787.2
427.9	45°	443.7	475.2	514.7	542.8	563.1	593.5	635.2	639.7	629.5
343.5	47.5°	355.9	384.0	415.6	450.5	474.1	493.3	529.3	542.8	536.1
289.4	50°	301.8	323.2	353.6	388.5	414.4	431.3	462.9	477.5	473.0
242.1	52.5°	256.8	282.7	310.8	340.1	371.6	388.5	417.8	439.2	435.8
200.5	55°	212.8	246.6	275.9	305.2	341.2	358.1	384.0	412.2	406.5
170.1	57.5°	185.8	214.0	244.4	272.5	310.8	333.3	357.0	386.3	385.2
139.6	60°	155.4	183.6	217.4	241.0	281.5	313.1	334.5	364.9	367.1
105.9	62.5°	123.9	158.8	184.7	217.4	254.5	291.7	311.9	342.4	353.6
81.1	65°	92.3	130.6	159.9	192.6	227.5	269.2	287.2	317.6	328.8
58.6	67.5°	68.7	98.0	135.1	163.3	202.7	238.7	260.1	288.3	296.2
34.9	70°	51.8	75.5	112.6	137.4	177.9	207.2	228.6	250.0	260.1
23.6	72.5°	30.4	56.3	89.0	118.2	153.2	177.9	193.7	210.6	217.4
11.3	75°	21.4	42.8	69.8	98.0	123.9	144.2	158.8	173.4	180.2
5.6	77.5°	11.3	31.5	55.2	78.8	96.9	113.7	128.4	139.6	144.2
4.5	80°	6.8	22.5	45.0	61.9	74.3	89.0	103.6	111.5	110.4
3.4	82.5°	4.5	18.0	32.7	45.0	54.1	65.3	75.5	81.1	81.1
2.3	85°	3.4	12.4	22.5	34.9	36.0	45.0	47.3	52.9	54.1
2.3	87.5°	2.3	7.9	12.4	20.3	19.1	23.6	24.8	28.2	30.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
13605.3
13661.6
14043.4
14175.1
13970.2
13583.9
12958.9
11869.9
10539.8
8964.3
7535.2
6037.4
4716.4
3384.1
2206.2
1487.7
1056.3
781.6
628.4
532.7
471.9
433.6
406.5
384.0
367.1
352.5
327.7
296.2
257.9
215.1
177.9
143.0
109.2
80.0
52.9
29.3
0.0

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