

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: P636493

Luminaire Tested: **IFLD-M-SA4C-935-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636493
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-935-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15621.8 lumens
Efficiency: N/A
Efficacy: 71.6 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): 218.1
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



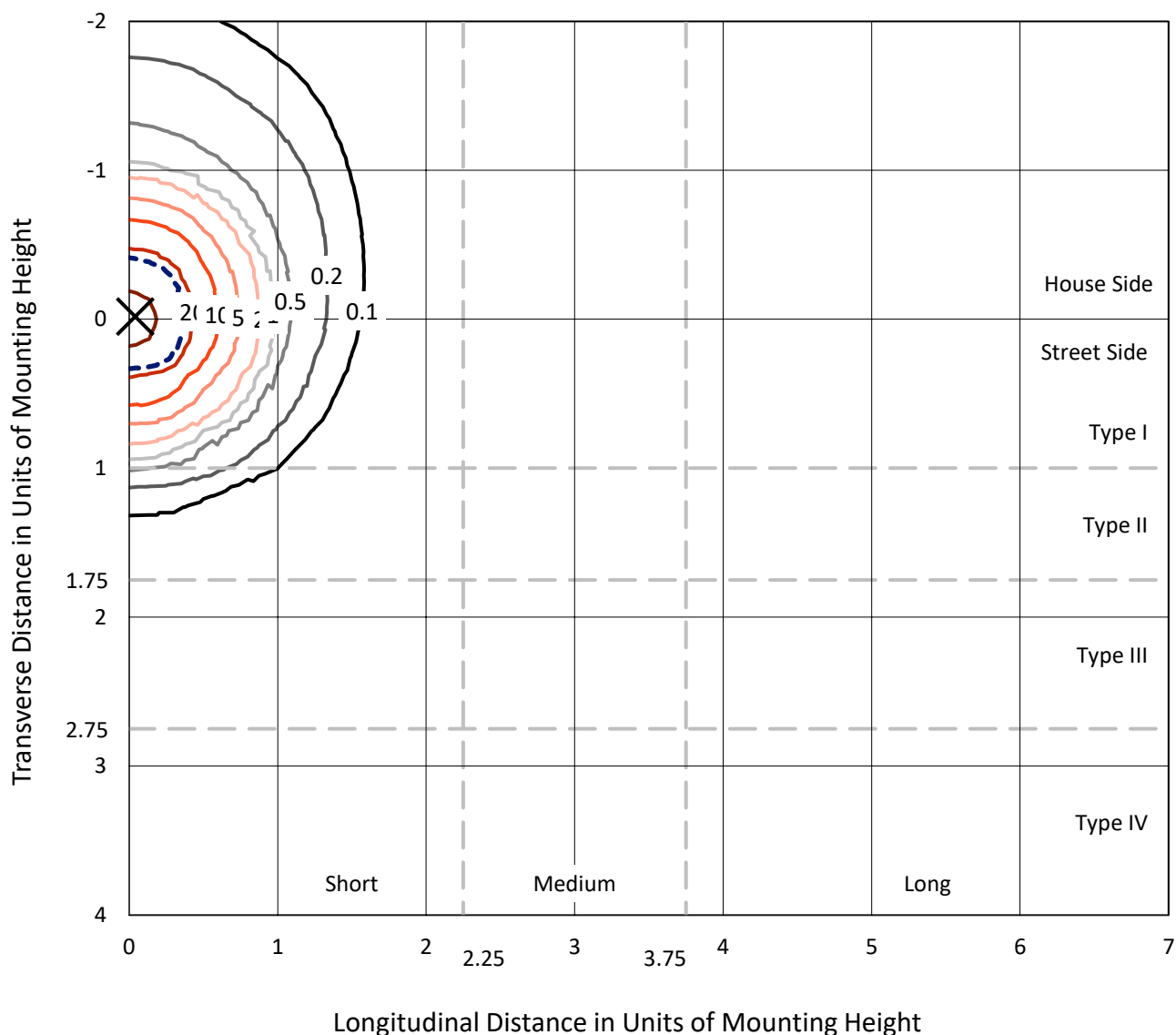
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

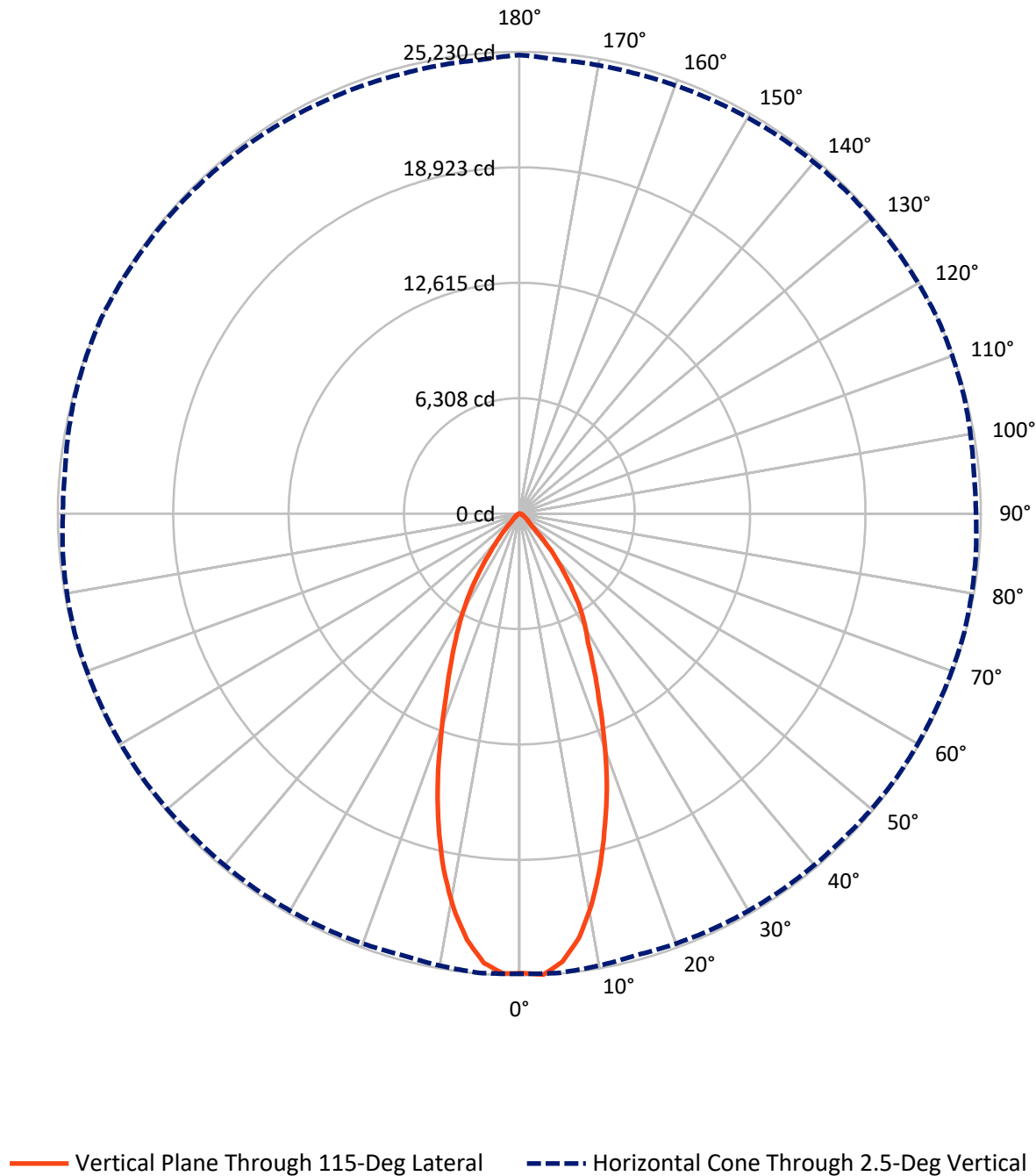


Based on 20 foot mounting height. Maximum calculated value = 62.8 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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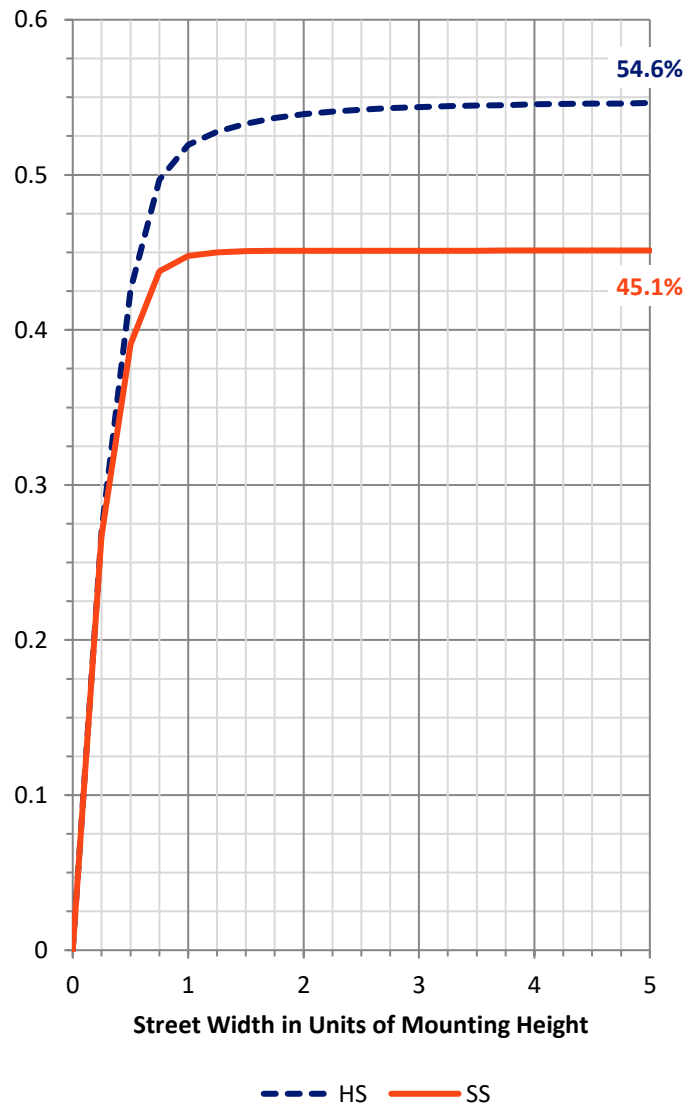
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8621.4	0.0	8621.4
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	7000.4	0.0	7000.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	15621.8	0.0	15621.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2252.4	14.4
10°-20°	4760.3	30.5
20°-30°	4296.5	27.5
30°-40°	2843.2	18.2
40°-50°	851.7	5.5
50°-60°	341.7	2.2
60°-70°	176.9	1.1
70°-80°	76.8	0.5
80°-90°	22.3	0.1
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°	15621.8	100.0
0°-180°	15621.8	100.0

Coefficient of Utilization



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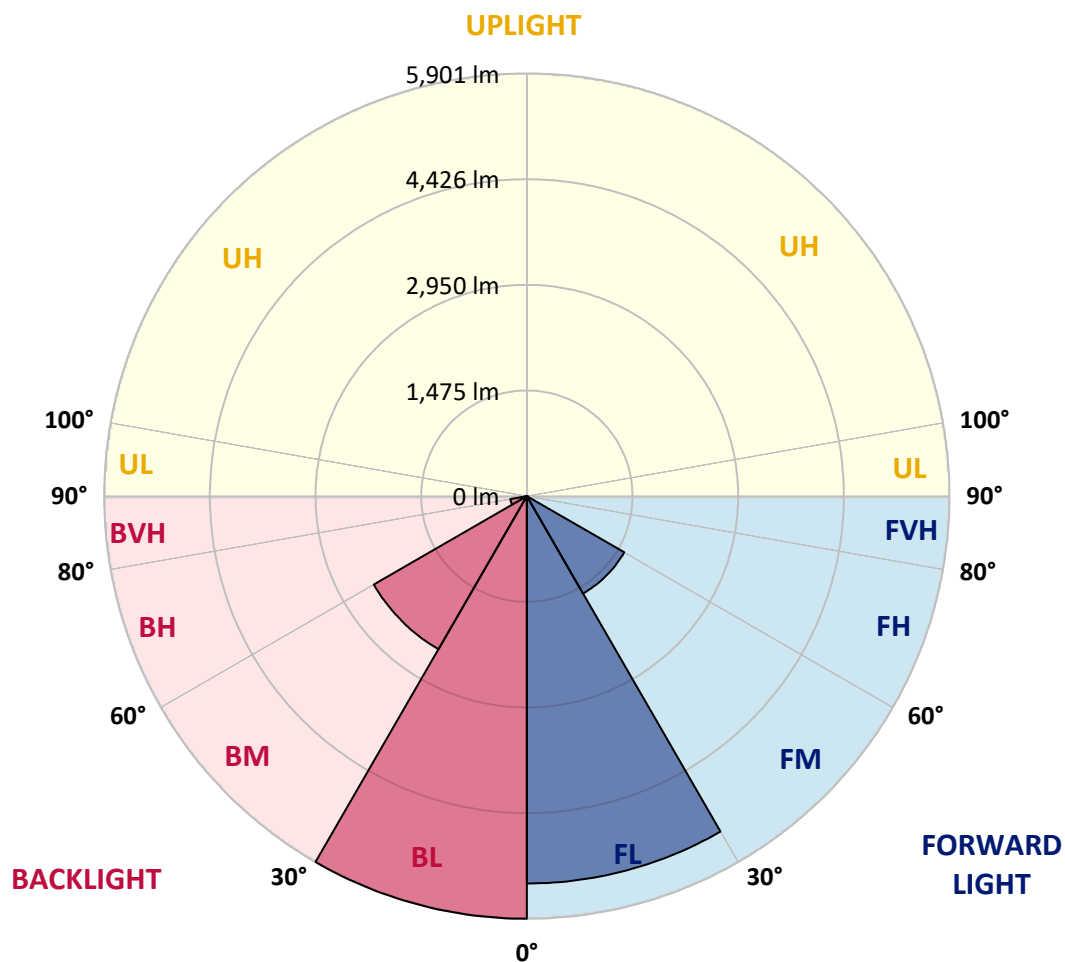
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5408.4	34.6			
FM	(30°-60°)	1569.3	10.0			
FH	(60°-80°)	19.4	0.1			G0/660
FVH	(80°-90°)	3.2	0.0			G0/10
BL	(0°-30°)	5900.7	37.8	B5		
BM	(30°-60°)	2467.2	15.8	B2/2500		
BH	(60°-80°)	234.3	1.5	B1/500		G1/500
BVH	(80°-90°)	19.1	0.1			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°	25112.0	25112.0	25112.0	25112.0	25112.0	25112.0	25112.0	25112.0	25112.0	25112.0
2.5°	25144.0	25188.7	24965.0	25041.7	25073.7	25083.2	25163.1	25150.3	25172.7	25054.5
5°	24811.7	24725.4	24559.3	24562.5	24552.9	24463.4	24645.5	24632.8	24594.4	24453.9
7.5°	23680.7	23805.3	23492.2	23485.8	23479.4	23370.8	23610.4	23463.4	23495.4	23294.1
10°	22025.7	22041.7	21763.7	21738.2	21760.5	21620.0	21897.9	21840.4	21901.1	21690.3
12.5°	19997.0	20086.4	19779.7	19735.0	19824.4	19626.3	19850.0	19878.7	19789.3	19760.5
15°	15683.8	15920.2	16501.7	17389.9	17619.9	17453.8	17632.7	17629.5	17667.9	17450.6
17.5°	11949.0	11971.3	11834.0	12258.9	14719.0	15517.7	15556.0	15252.5	15022.5	14942.6
20°	10431.4	10508.1	10383.5	10418.6	10811.6	13153.5	13242.9	12786.0	12393.1	12361.1
22.5°	9223.7	9271.6	9182.2	9210.9	9230.1	9504.9	11060.8	10658.2	10469.7	10326.0
25°	8201.3	8201.3	8153.4	8163.0	8143.8	7738.1	8536.8	8996.9	8888.2	8837.1
27.5°	7268.4	7281.2	7220.5	7255.6	7022.4	6367.5	6271.6	7629.4	7514.4	7421.8
30°	6383.4	6425.0	6367.5	6386.6	5878.6	5341.9	5067.1	6364.3	6508.0	6482.5
32.5°	4805.1	4993.6	5456.9	5476.1	4786.0	4373.8	4252.4	5108.7	5655.0	5607.1
35°	2977.7	2968.1	2987.2	3907.4	3671.0	3389.8	3434.5	3859.5	4476.1	4453.7
37.5°	2271.6	2268.4	2303.5	2210.9	2405.8	2571.9	2607.0	2607.0	3268.4	3271.6
40°	1722.1	1709.3	1706.1	1559.1	1306.7	1929.7	1872.2	1824.3	2271.6	2319.5
42.5°	1099.0	1137.4	1108.6	948.9	853.0	1054.3	1175.7	1137.4	1402.6	1437.7
45°	613.4	613.4	587.9	498.4	495.2	533.6	670.9	626.2	718.9	766.8
47.5°	297.1	290.7	319.5	393.0	408.9	396.2	479.2	498.4	543.1	587.9
50°	239.6	239.6	226.8	204.5	338.7	325.9	354.6	380.2	405.8	444.1
52.5°	201.3	201.3	185.3	172.5	194.9	249.2	252.4	300.3	297.1	351.4
55°	102.2	105.4	150.2	150.2	131.0	204.5	207.7	242.8	249.2	293.9
57.5°	9.6	12.8	19.2	92.7	102.2	111.8	156.6	178.9	207.7	226.8
60°	3.2	3.2	6.4	12.8	60.7	76.7	99.0	118.2	143.8	188.5
62.5°	0.0	0.0	3.2	6.4	12.8	47.9	54.3	60.7	86.3	118.2
65°	0.0	0.0	3.2	3.2	6.4	16.0	22.4	38.3	54.3	73.5
67.5°	0.0	0.0	3.2	3.2	6.4	9.6	12.8	19.2	25.6	47.9
70°	0.0	0.0	3.2	3.2	6.4	9.6	9.6	12.8	16.0	22.4
72.5°	0.0	0.0	3.2	3.2	6.4	12.8	9.6	9.6	12.8	16.0
75°	0.0	0.0	3.2	3.2	6.4	9.6	9.6	9.6	9.6	9.6
77.5°	0.0	0.0	3.2	3.2	6.4	9.6	9.6	9.6	6.4	6.4
80°	0.0	0.0	3.2	3.2	6.4	9.6	12.8	12.8	6.4	6.4
82.5°	0.0	0.0	3.2	6.4	6.4	16.0	19.2	16.0	6.4	3.2
85°	0.0	0.0	3.2	3.2	9.6	16.0	16.0	9.6	6.4	3.2
87.5°	0.0	0.0	0.0	3.2	3.2	6.4	9.6	9.6	3.2	3.2
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°
25112.0	0°	25112.0	25112.0	25112.0	25112.0	25112.0	25112.0	25112.0	25112.0	25112.0
24958.6	2.5°	24945.9	25140.8	25230.2	25137.6	25092.8	25028.9	24936.3	24872.4	24885.2
24377.2	5°	24322.9	24527.3	24597.6	24517.8	24450.7	24415.5	24399.5	24431.5	24514.6
23207.8	7.5°	23201.4	23332.4	23409.1	23370.8	23278.1	23383.6	23412.3	23393.1	23514.5
21626.4	10°	21632.7	21776.5	21706.2	21722.2	21613.6	21667.9	21651.9	21722.2	21843.6
19738.2	12.5°	19610.4	19747.7	19693.4	19683.8	19568.8	19671.1	19607.2	19683.8	19843.6
17361.1	15°	17485.8	17572.0	17536.9	17482.6	17380.3	17415.5	17613.5	17600.8	17671.1
14894.7	17.5°	14830.8	15246.1	15473.0	15520.9	15437.8	15508.1	15648.7	15613.5	15773.3
12294.0	20°	12271.7	12690.2	13249.3	13703.0	13712.6	13722.1	13811.6	13834.0	13971.3
10329.1	22.5°	10284.4	10581.5	11182.2	11782.8	12198.2	12284.4	12274.8	12306.8	12345.1
8766.8	25°	8744.5	8961.7	9511.3	9926.6	10655.0	10897.8	10968.1	10897.8	10920.2
7389.8	27.5°	7472.9	7805.2	7987.3	8431.4	9143.8	9706.1	9683.8	9642.2	9648.6
6431.4	30°	6428.2	6786.0	7054.4	7188.6	7725.3	8536.8	8619.9	8501.7	8504.9
5584.7	32.5°	5549.6	5661.4	6057.6	6166.2	6511.2	7249.3	7533.6	7444.1	7428.2
4466.5	35°	4597.5	4658.2	4840.3	5054.3	5258.8	5817.9	6287.6	6204.5	6246.1
3284.4	37.5°	3271.6	3520.8	3696.5	3872.2	4019.2	4370.6	4936.1	4859.5	4901.0
2325.9	40°	2306.7	2418.5	2722.1	2798.7	3016.0	3178.9	3658.2	3632.6	3683.7
1444.1	42.5°	1418.5	1498.4	1651.8	1725.3	1872.2	1964.9	2246.0	2278.0	2345.1
798.7	45°	805.1	840.3	945.7	1025.6	1134.2	1172.5	1271.6	1316.3	1354.6
619.8	47.5°	613.4	651.8	722.0	792.3	881.8	913.7	984.0	1051.1	1086.3
479.2	50°	501.6	536.7	610.2	667.7	757.2	785.9	843.5	916.9	961.7
364.2	52.5°	380.2	431.3	520.8	581.5	674.1	709.3	763.6	837.1	878.6
300.3	55°	313.1	351.4	431.3	514.4	600.6	648.6	683.7	773.2	817.9
246.0	57.5°	268.4	297.1	348.2	447.3	520.8	591.1	619.8	702.9	747.6
194.9	60°	204.5	249.2	293.9	370.6	453.7	527.2	559.1	632.6	667.7
140.6	62.5°	169.3	198.1	255.6	297.1	389.8	466.5	498.4	565.5	591.1
92.7	65°	118.2	159.7	214.1	239.6	325.9	399.4	444.1	495.2	520.8
54.3	67.5°	70.3	118.2	169.3	204.5	265.2	338.7	386.6	434.5	456.9
31.9	70°	44.7	92.7	134.2	172.5	207.7	278.0	335.5	377.0	367.4
19.2	72.5°	25.6	57.5	99.0	140.6	172.5	233.2	287.5	319.5	226.8
12.8	75°	16.0	41.5	83.1	115.0	140.6	185.3	236.4	242.8	140.6
6.4	77.5°	12.8	31.9	63.9	92.7	95.8	137.4	166.1	188.5	105.4
6.4	80°	6.4	25.6	54.3	76.7	60.7	95.8	127.8	147.0	83.1
3.2	82.5°	6.4	16.0	41.5	54.3	44.7	73.5	92.7	105.4	70.3
3.2	85°	3.2	12.8	22.4	31.9	31.9	47.9	41.5	51.1	44.7
3.2	87.5°	3.2	6.4	12.8	16.0	12.8	19.2	22.4	22.4	19.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
25112.0
25057.7
24687.1
23636.0
21891.5
19872.3
17687.0
15747.7
13942.6
12274.8
10885.1
9658.2
8508.0
7466.5
6284.4
4936.1
3702.9
2421.7
1351.4
1102.2
980.8
907.4
830.7
766.8
674.1
594.3
520.8
453.7
338.7
201.3
131.0
105.4
86.3
76.7
44.7
16.0
0.0

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