

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: P637565

Luminaire Tested: **IFLD-M-SA4B-727-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637565
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-727-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17942 lumens
Efficiency: N/A
Efficacy: 108.0 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): 166.1
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



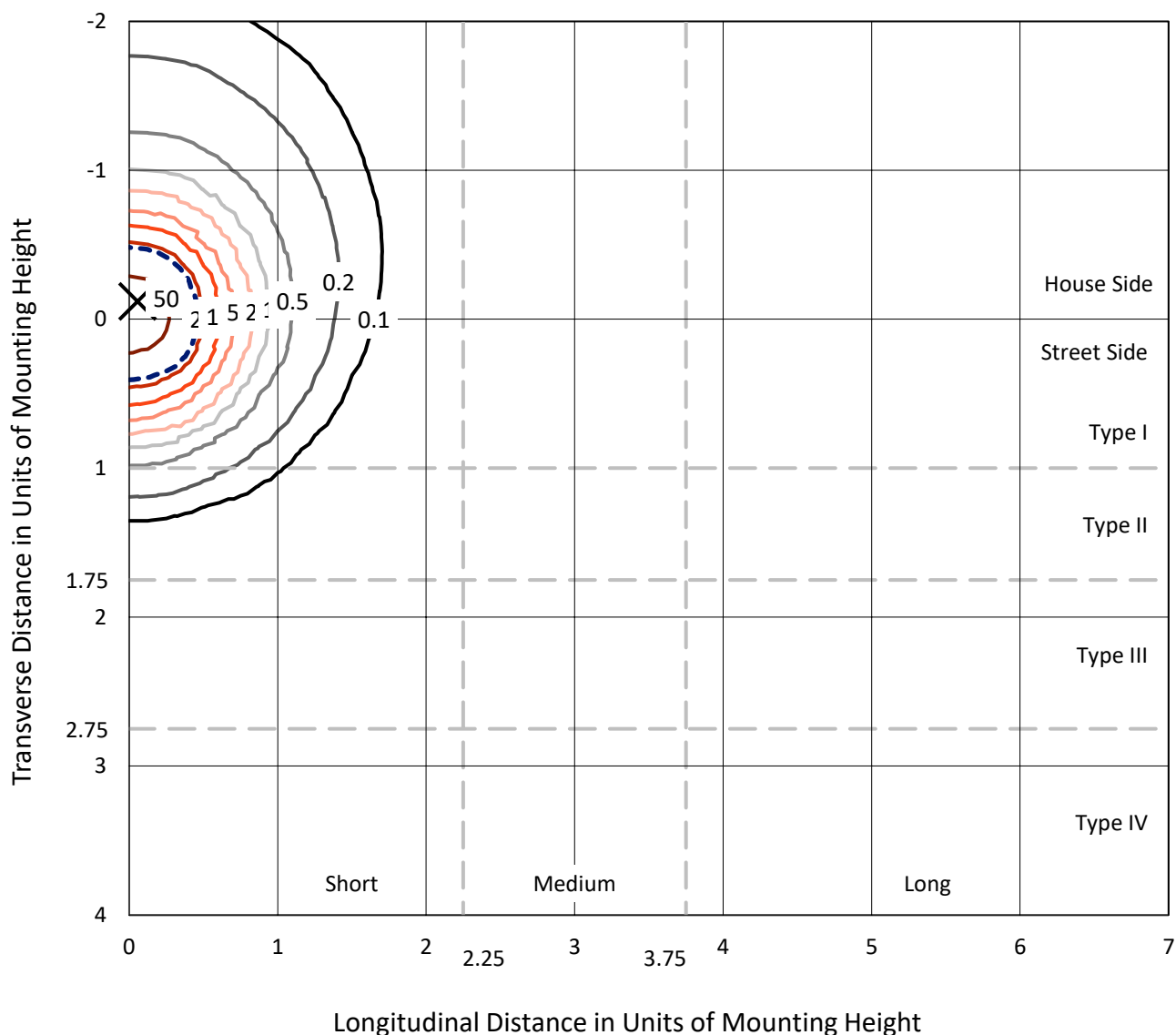
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

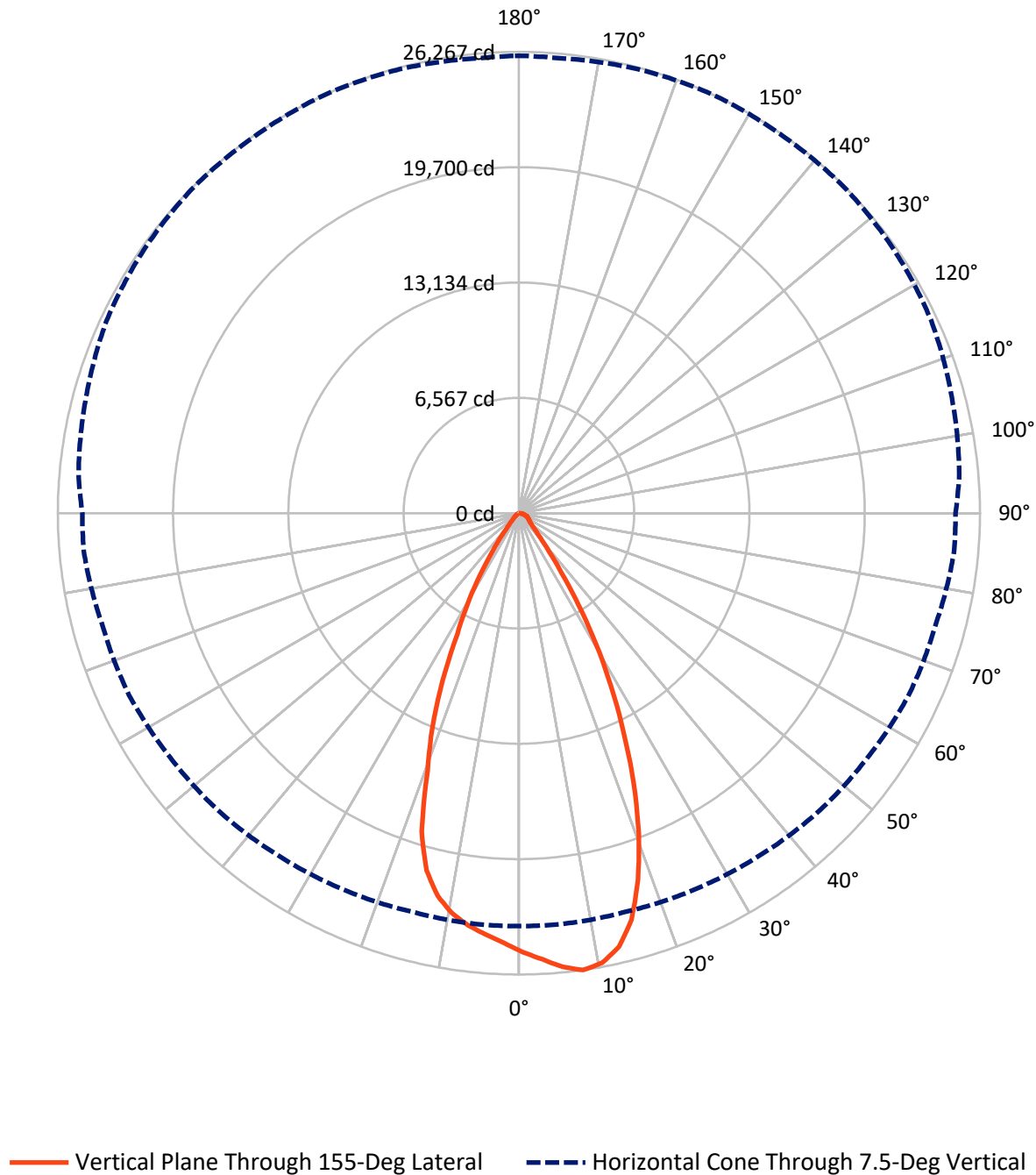


Based on 20 foot mounting height. Maximum calculated value = 63.5 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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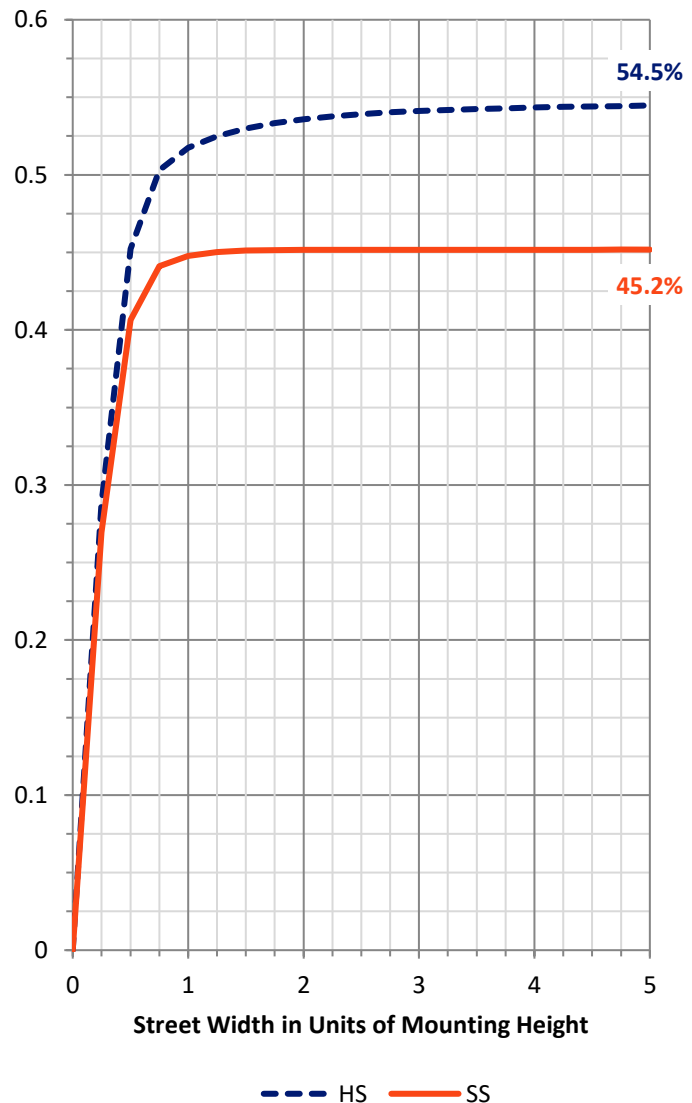
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9904.6	0.0	9904.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	8037.4	0.0	8037.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	17942.0	0.0	17942.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2383.4	13.3
10°-20°	6180.2	34.4
20°-30°	5662.8	31.6
30°-40°	2287.8	12.8
40°-50°	671.1	3.7
50°-60°	375.2	2.1
60°-70°	227.9	1.3
70°-80°	115.8	0.6
80°-90°	37.9	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°	17942.0	100.0
0°-180°	17942.0	100.0

Coefficient of Utilization



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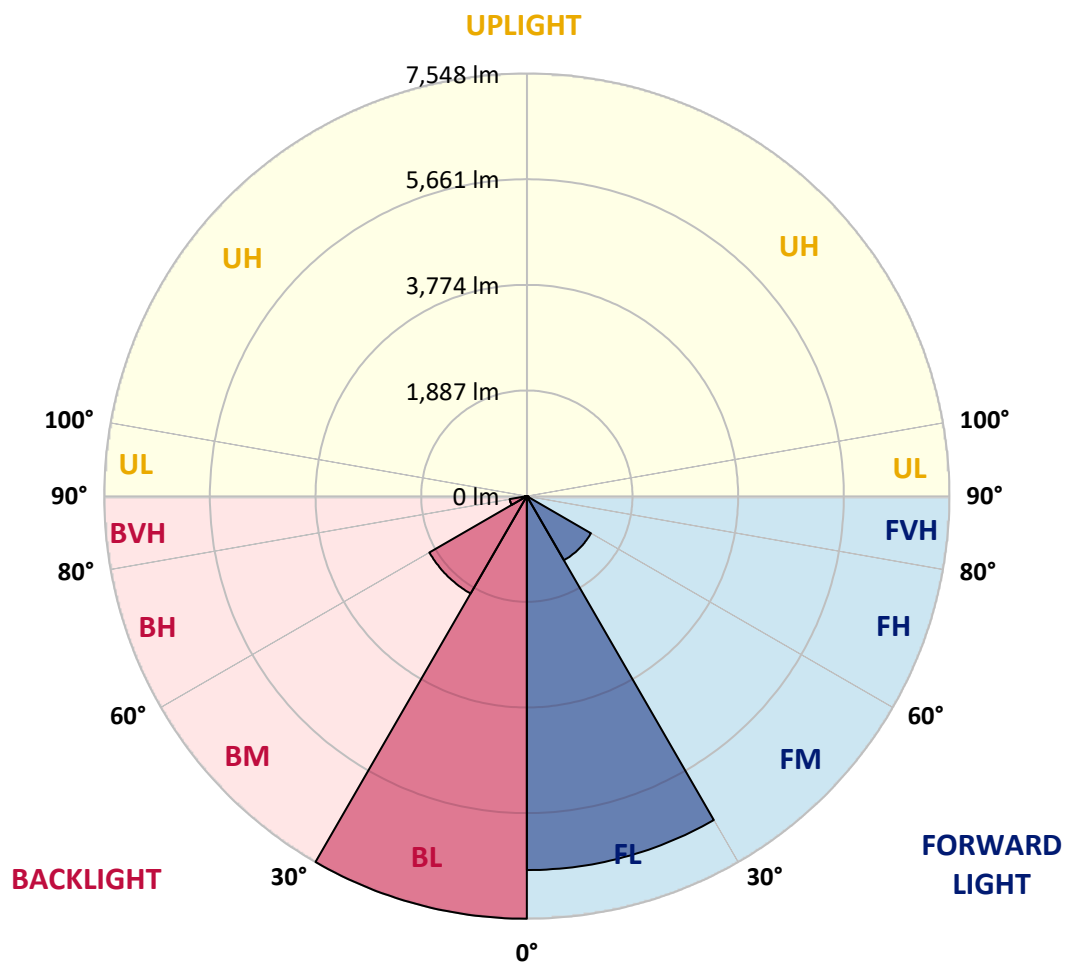
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6678.5	37.2			
FM	(30°-60°)	1323.6	7.4			
FH	(60°-80°)	32.1	0.2			G0/660
FVH	(80°-90°)	3.3	0.0			G0/10
BL	(0°-30°)	7547.8	42.1	B5		
BM	(30°-60°)	2010.6	11.2	B2/2500		
BH	(60°-80°)	311.6	1.7	B1/500		G1/500
BVH	(80°-90°)	34.6	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°	24994.6	24994.6	24994.6	24994.6	24994.6	24994.6	24994.6	24994.6	24994.6	24994.6
2.5°	24452.6	24535.3	24369.8	24479.5	24564.3	24767.0	24783.6	24853.9	24878.8	25062.9
5°	23989.1	24053.3	23918.8	24065.7	24185.7	24365.7	24504.3	24698.8	24806.3	25023.6
7.5°	23507.1	23521.5	23494.6	23649.8	23829.8	24078.1	24249.8	24504.3	24570.5	24880.8
10°	22923.6	22818.1	22869.8	23097.4	23366.4	23747.1	23865.0	24119.5	24237.4	24553.9
12.5°	21992.6	22046.4	21982.3	22271.9	22495.4	22927.8	23051.9	23308.4	23534.0	23813.3
15°	20680.9	20649.9	20780.2	21005.7	21247.8	21591.2	21791.9	22071.2	22243.0	22532.6
17.5°	17732.7	17838.2	18376.1	18941.0	19437.5	19838.9	20078.9	20310.6	20434.7	20749.2
20°	15314.1	15181.7	15254.1	15572.8	16985.8	17600.3	17852.7	17908.6	17960.3	18208.6
22.5°	12610.1	12566.6	12808.7	13166.6	13501.8	14919.0	15262.4	15132.1	15239.7	15473.4
25°	9363.9	9583.2	9798.4	10485.3	10919.8	11614.9	12266.6	12324.6	12363.9	12510.8
27.5°	7621.9	7545.3	7541.2	7733.6	8375.0	8954.3	9508.8	9637.0	9614.3	9755.0
30°	5991.6	5966.8	5879.9	5925.4	5861.2	6376.4	6637.1	7164.7	7135.7	7139.8
32.5°	4322.0	4228.9	4193.7	4262.0	4195.8	4148.2	4375.8	4971.6	4961.3	5002.6
35°	2615.1	2602.7	2631.7	2691.7	2559.3	2555.1	2602.7	3163.4	3231.7	3297.9
37.5°	1444.1	1431.7	1454.5	1675.8	1632.4	1593.1	1605.5	1901.3	2097.9	2147.5
40°	951.7	949.6	966.2	1005.5	1080.0	1065.5	1071.7	1204.1	1390.3	1433.8
42.5°	637.2	639.3	649.6	695.2	705.5	780.0	767.6	798.6	972.4	1009.6
45°	509.0	506.9	513.1	492.4	504.8	581.4	589.6	591.7	740.7	763.4
47.5°	401.4	401.4	407.6	380.7	374.5	422.1	465.5	471.7	591.7	622.7
50°	281.4	281.4	312.4	300.0	314.5	329.0	376.5	382.8	484.1	517.2
52.5°	206.9	211.0	215.2	217.2	264.8	262.8	304.1	333.1	366.2	424.1
55°	157.2	161.4	151.0	161.4	196.5	219.3	227.6	269.0	291.7	355.9
57.5°	103.4	113.8	105.5	124.1	132.4	169.7	182.1	221.4	235.9	291.7
60°	14.5	16.6	26.9	86.9	93.1	111.7	140.7	175.9	190.3	237.9
62.5°	2.1	2.1	6.2	14.5	62.1	74.5	105.5	122.1	140.7	177.9
65°	0.0	0.0	2.1	4.1	12.4	43.4	53.8	66.2	97.2	128.3
67.5°	0.0	0.0	2.1	4.1	6.2	14.5	22.8	43.4	55.9	89.0
70°	0.0	0.0	2.1	4.1	6.2	8.3	12.4	16.6	33.1	51.7
72.5°	0.0	0.0	2.1	4.1	6.2	8.3	10.3	12.4	14.5	33.1
75°	0.0	0.0	2.1	4.1	6.2	10.3	12.4	12.4	12.4	14.5
77.5°	0.0	0.0	2.1	4.1	8.3	12.4	14.5	12.4	10.3	10.3
80°	0.0	0.0	2.1	6.2	10.3	14.5	16.6	12.4	8.3	6.2
82.5°	0.0	0.0	2.1	6.2	10.3	14.5	16.6	14.5	8.3	6.2
85°	0.0	0.0	2.1	6.2	8.3	10.3	16.6	14.5	8.3	4.1
87.5°	0.0	0.0	0.0	2.1	2.1	4.1	8.3	6.2	4.1	2.1
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°
24994.6	0°	24994.6	24994.6	24994.6	24994.6	24994.6	24994.6	24994.6	24994.6	24994.6
25058.7	2.5°	25245.0	25338.1	25501.5	25547.0	25687.7	25526.3	25437.4	25445.6	25253.2
24996.7	5°	25245.0	25458.1	25743.6	25880.1	25983.6	25975.3	25952.5	25894.6	25753.9
24872.5	7.5°	25178.7	25526.3	25919.4	26101.5	26225.6	26215.3	26267.0	26173.9	26002.2
24651.2	10°	24965.6	25267.7	25751.8	25900.8	26101.5	26105.6	26041.5	26060.1	25753.9
23842.2	12.5°	24295.3	24531.2	24955.3	25125.0	25369.1	25408.4	25338.1	25311.2	25021.5
22516.0	15°	22998.1	23134.7	23560.9	23730.5	23972.6	23939.5	24009.8	23980.8	23726.4
20724.4	17.5°	21100.9	21144.4	21591.2	21734.0	21961.6	22050.5	21945.0	22079.5	21860.2
18252.0	20°	18380.3	18614.1	19116.8	19336.1	19468.5	19627.8	19489.2	19640.3	19383.7
15252.1	22.5°	15620.3	15759.0	16214.1	16530.7	16776.9	16807.9	16756.2	16861.7	16516.2
12608.0	25°	12605.9	12835.6	13195.6	13609.4	13851.4	14000.4	13865.9	13934.2	13878.3
9777.7	27.5°	9943.2	10148.0	10419.1	10727.3	11091.5	11286.0	11178.4	11294.2	11021.1
7290.9	30°	7297.1	7400.5	7706.7	8033.6	8432.9	8668.8	8679.1	8797.0	8635.7
5108.2	32.5°	5145.4	5236.4	5424.7	5641.9	6022.6	6285.4	6244.0	6260.5	6161.2
3328.9	35°	3345.4	3467.5	3602.0	3705.4	3935.1	4224.7	4202.0	4181.3	4113.0
2188.9	37.5°	2236.5	2284.1	2358.6	2451.7	2600.6	2782.7	2842.7	2768.2	2739.2
1477.2	40°	1512.4	1595.1	1644.8	1715.1	1785.5	1938.6	1980.0	1965.5	1936.5
1034.5	42.5°	1073.8	1137.9	1200.0	1268.2	1305.5	1400.7	1481.3	1458.6	1446.2
786.2	45°	815.2	873.1	945.5	997.2	1034.5	1090.3	1166.9	1175.1	1156.5
631.0	47.5°	653.8	705.5	763.4	827.6	871.0	906.2	972.4	997.2	984.8
531.7	50°	554.5	593.8	649.6	713.8	761.4	792.4	850.3	877.2	868.9
444.8	52.5°	471.7	519.3	571.0	624.8	682.7	713.8	767.6	806.9	800.7
368.3	55°	391.0	453.1	506.9	560.7	626.9	657.9	705.5	757.2	746.9
312.4	57.5°	341.4	393.1	449.0	500.7	571.0	612.4	655.8	709.6	707.6
256.5	60°	285.5	337.2	399.3	442.7	517.2	575.2	614.5	670.3	674.5
194.5	62.5°	227.6	291.7	339.3	399.3	467.6	535.9	573.1	629.0	649.6
149.0	65°	169.7	240.0	293.8	353.8	417.9	494.5	527.6	583.4	604.1
107.6	67.5°	126.2	180.0	248.3	300.0	372.4	438.6	477.9	529.6	544.1
64.1	70°	95.2	138.6	206.9	252.4	326.9	380.7	420.0	459.3	477.9
43.4	72.5°	55.9	103.4	163.4	217.2	281.4	326.9	355.9	386.9	399.3
20.7	75°	39.3	78.6	128.3	180.0	227.6	264.8	291.7	318.6	331.0
10.3	77.5°	20.7	57.9	101.4	144.8	177.9	209.0	235.9	256.5	264.8
8.3	80°	12.4	41.4	82.8	113.8	136.5	163.4	190.3	204.8	202.8
6.2	82.5°	8.3	33.1	60.0	82.8	99.3	120.0	138.6	149.0	149.0
4.1	85°	6.2	22.8	41.4	64.1	66.2	82.8	86.9	97.2	99.3
4.1	87.5°	4.1	14.5	22.8	37.2	35.2	43.4	45.5	51.7	55.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
24994.6
25098.1
25799.4
26041.5
25664.9
24955.3
23807.1
21806.4
19363.0
16468.6
13843.1
11091.5
8664.6
6217.1
4053.0
2733.0
1940.6
1435.8
1154.5
978.6
866.9
796.5
746.9
705.5
674.5
647.6
602.1
544.1
473.8
395.2
326.9
262.8
200.7
146.9
97.2
53.8
0.0

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