

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: P636439

Luminaire Tested: **IFLD-L-SA7B-927-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636439
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-927-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18656.4 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

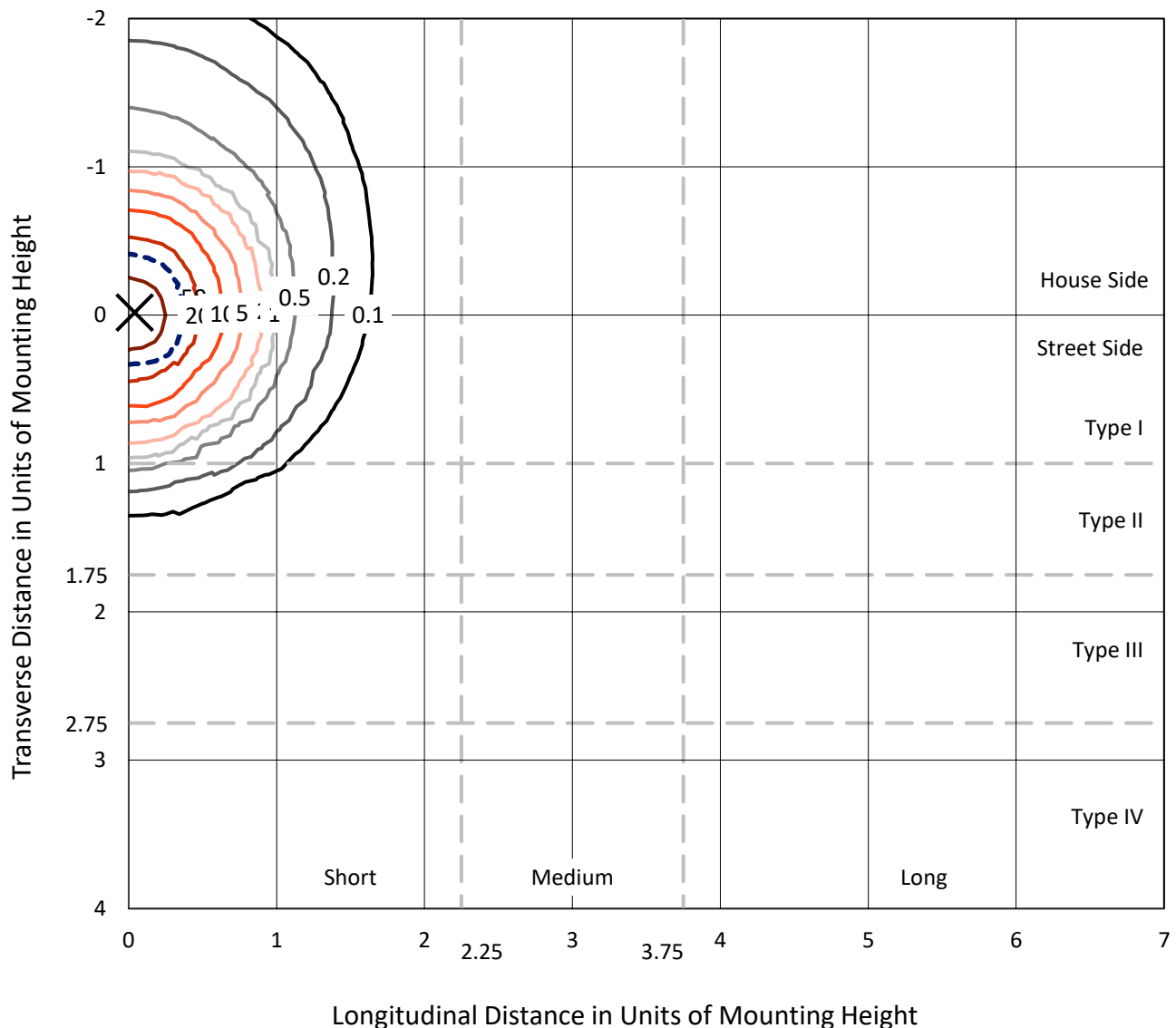
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

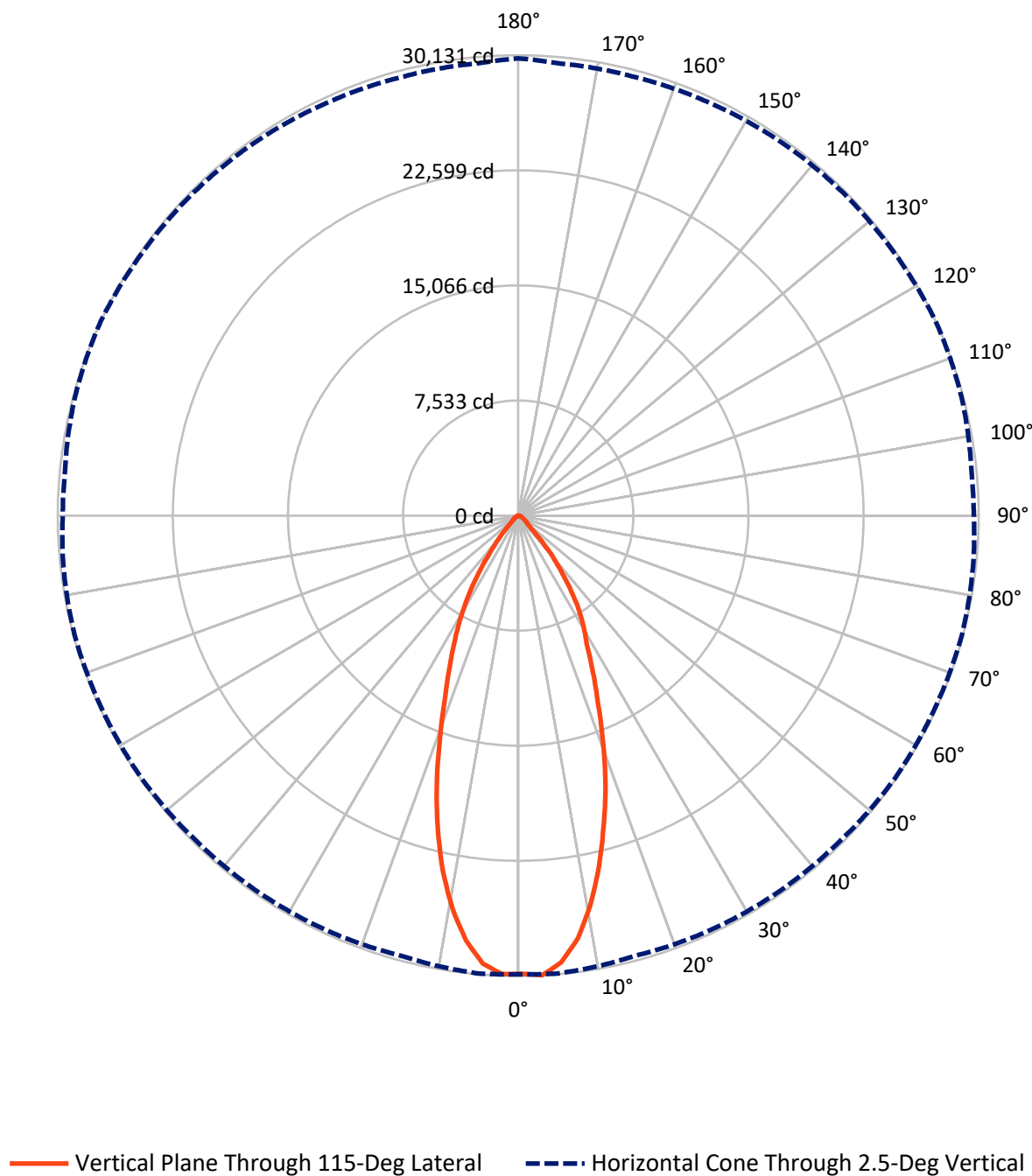


Based on 20 foot mounting height. Maximum calculated value = 75 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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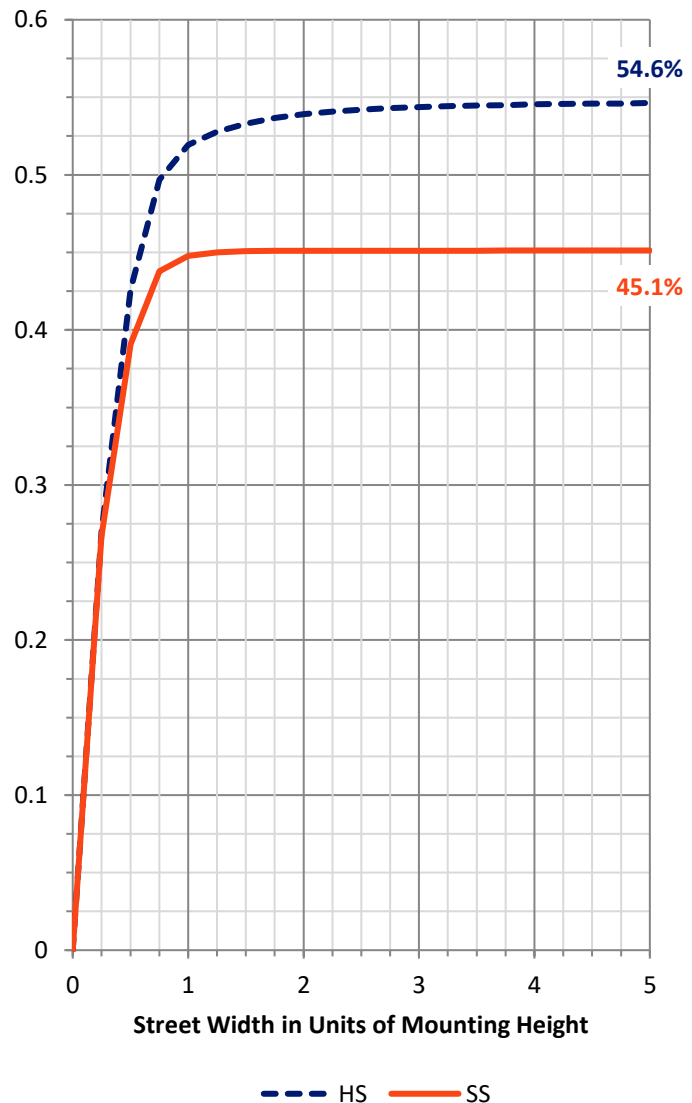
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10296.2	0.0	10296.2
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	8360.3	0.0	8360.3
	% Fixture	44.8	0.0	44.8
Total	Lumens	18656.4	0.0	18656.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2689.9	14.4
10°-20°	5685.0	30.5
20°-30°	5131.1	27.5
30°-40°	3395.5	18.2
40°-50°	1017.2	5.5
50°-60°	408.0	2.2
60°-70°	211.3	1.1
70°-80°	91.7	0.5
80°-90°	26.7	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°	18656.4	100.0
0°-180°	18656.4	100.0

Coefficient of Utilization



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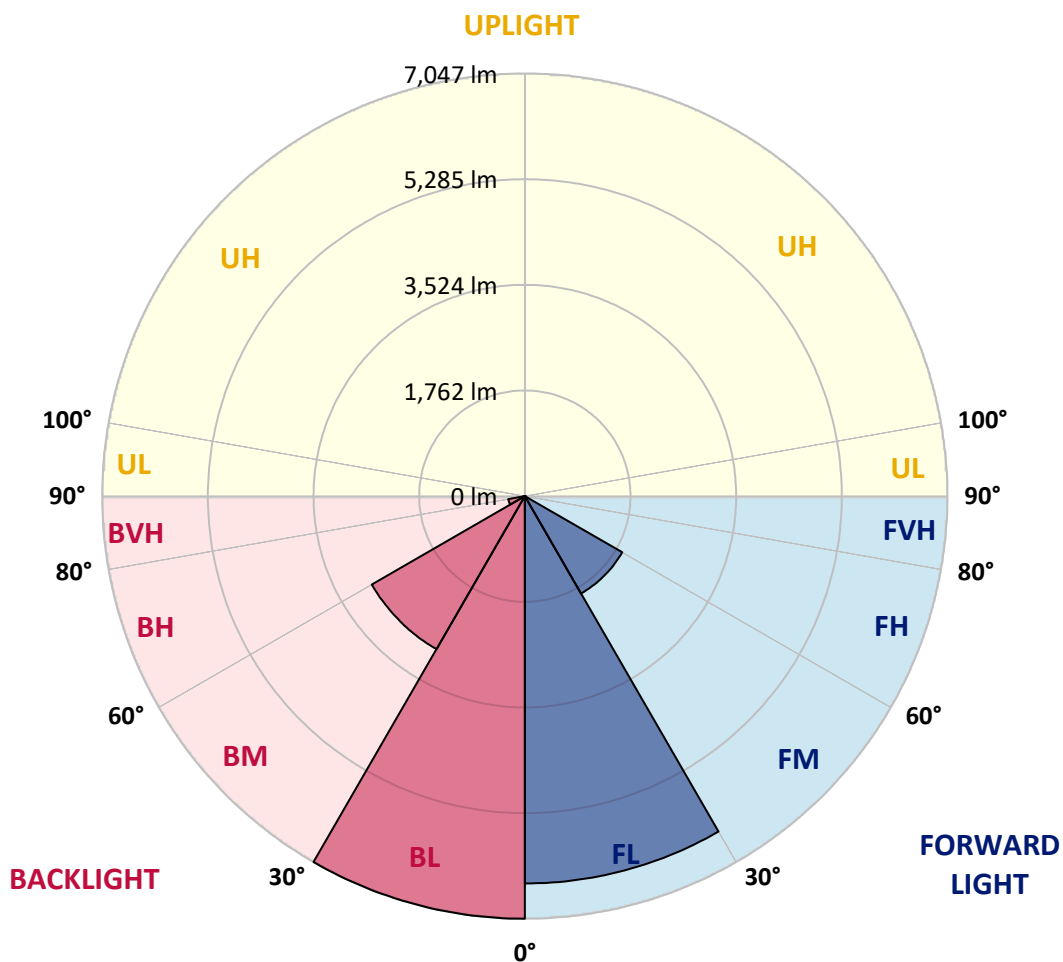
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6459.0	34.6			
FM	(30°-60°)	1874.2	10.0			
FH	(60°-80°)	23.2	0.1			G0/660
FVH	(80°-90°)	3.8	0.0			G0/10
BL	(0°-30°)	7047.0	37.8	B5		
BM	(30°-60°)	2946.5	15.8	B3/5000		
BH	(60°-80°)	279.8	1.5	B1/500		G1/500
BVH	(80°-90°)	22.8	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°	29990.3	29990.3	29990.3	29990.3	29990.3	29990.3	29990.3	29990.3	29990.3	29990.3
2.5°	30028.4	30081.8	29814.8	29906.3	29944.5	29955.9	30051.3	30036.1	30062.8	29921.6
5°	29631.6	29528.6	29330.2	29334.0	29322.5	29215.7	29433.2	29417.9	29372.2	29204.3
7.5°	28280.9	28429.7	28055.8	28048.2	28040.5	27910.8	28197.0	28021.4	28059.6	27819.2
10°	26304.4	26323.5	25991.6	25961.0	25987.8	25819.9	26151.8	26083.1	26155.6	25903.8
12.5°	23881.6	23988.4	23622.1	23568.7	23675.5	23439.0	23706.1	23740.4	23633.6	23599.2
15°	18730.6	19012.9	19707.3	20768.1	21042.8	20844.4	21058.1	21054.2	21100.0	20840.6
17.5°	14270.2	14296.9	14132.8	14640.3	17578.3	18532.2	18577.9	18215.5	17940.7	17845.4
20°	12457.8	12549.4	12400.6	12442.5	12911.8	15708.6	15815.5	15269.9	14800.5	14762.4
22.5°	11015.5	11072.7	10965.9	11000.2	11023.1	11351.3	13209.5	12728.7	12503.6	12331.9
25°	9794.5	9794.5	9737.3	9748.7	9725.9	9241.3	10195.2	10744.6	10614.9	10553.8
27.5°	8680.4	8695.7	8623.2	8665.1	8386.6	7604.4	7489.9	9111.5	8974.2	8863.5
30°	7623.5	7673.1	7604.4	7627.3	7020.6	6379.6	6051.5	7600.6	7772.3	7741.8
32.5°	5738.6	5963.7	6517.0	6539.9	5715.7	5223.5	5078.5	6101.1	6753.5	6696.3
35°	3556.1	3544.7	3567.5	4666.4	4384.1	4048.3	4101.7	4609.2	5345.6	5318.9
37.5°	2712.9	2709.0	2751.0	2640.4	2873.1	3071.5	3113.5	3113.5	3903.3	3907.1
40°	2056.6	2041.3	2037.5	1862.0	1560.6	2304.6	2235.9	2178.7	2712.9	2770.1
42.5°	1312.6	1358.3	1324.0	1133.2	1018.8	1259.1	1404.1	1358.3	1675.0	1717.0
45°	732.6	732.6	702.1	595.2	591.4	637.2	801.3	747.8	858.5	915.7
47.5°	354.8	347.2	381.6	469.3	488.4	473.1	572.3	595.2	648.6	702.1
50°	286.2	286.2	270.9	244.2	404.4	389.2	423.5	454.1	484.6	530.4
52.5°	240.4	240.4	221.3	206.0	232.7	297.6	301.4	358.7	354.8	419.7
55°	122.1	125.9	179.3	179.3	156.4	244.2	248.0	290.0	297.6	351.0
57.5°	11.4	15.3	22.9	110.7	122.1	133.5	187.0	213.7	248.0	270.9
60°	3.8	3.8	7.6	15.3	72.5	91.6	118.3	141.2	171.7	225.1
62.5°	0.0	0.0	3.8	7.6	15.3	57.2	64.9	72.5	103.0	141.2
65°	0.0	0.0	3.8	3.8	7.6	19.1	26.7	45.8	64.9	87.8
67.5°	0.0	0.0	3.8	3.8	7.6	11.4	15.3	22.9	30.5	57.2
70°	0.0	0.0	3.8	3.8	7.6	11.4	11.4	15.3	19.1	26.7
72.5°	0.0	0.0	3.8	3.8	7.6	15.3	11.4	11.4	15.3	19.1
75°	0.0	0.0	3.8	3.8	7.6	11.4	11.4	11.4	11.4	11.4
77.5°	0.0	0.0	3.8	3.8	7.6	11.4	11.4	11.4	7.6	7.6
80°	0.0	0.0	3.8	3.8	7.6	11.4	15.3	15.3	7.6	7.6
82.5°	0.0	0.0	3.8	7.6	7.6	19.1	22.9	19.1	7.6	3.8
85°	0.0	0.0	3.8	3.8	11.4	19.1	19.1	11.4	7.6	3.8
87.5°	0.0	0.0	0.0	3.8	3.8	7.6	11.4	11.4	3.8	3.8
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°
29990.3	0°	29990.3	29990.3	29990.3	29990.3	29990.3	29990.3	29990.3	29990.3	29990.3
29807.1	2.5°	29791.9	30024.6	30131.4	30020.8	29967.4	29891.1	29780.4	29704.1	29719.4
29112.7	5°	29047.8	29292.0	29376.0	29280.6	29200.5	29158.5	29139.4	29177.6	29276.8
27716.2	7.5°	27708.6	27865.0	27956.6	27910.8	27800.1	27926.1	27960.4	27937.5	28082.5
25827.5	10°	25835.1	26006.8	25922.9	25942.0	25812.2	25877.1	25858.0	25942.0	26087.0
23572.5	12.5°	23419.9	23584.0	23519.1	23507.6	23370.3	23492.4	23416.1	23507.6	23698.4
20733.7	15°	20882.5	20985.6	20943.6	20878.7	20756.6	20798.6	21035.2	21019.9	21103.8
17788.1	17.5°	17711.8	18207.8	18478.7	18536.0	18436.8	18520.7	18688.6	18646.6	18837.4
14682.3	20°	14655.6	15155.4	15823.1	16364.9	16376.4	16387.8	16494.6	16521.4	16685.4
12335.7	22.5°	12282.3	12637.1	13354.4	14071.8	14567.8	14670.8	14659.4	14697.5	14743.3
10469.9	25°	10443.2	10702.6	11358.9	11854.9	12724.9	13014.9	13098.8	13014.9	13041.6
8825.4	27.5°	8924.6	9321.4	9538.9	10069.3	10920.1	11591.7	11565.0	11515.3	11523.0
7680.7	30°	7676.9	8104.2	8424.7	8585.0	9226.0	10195.2	10294.4	10153.2	10157.0
6669.6	32.5°	6627.6	6761.2	7234.3	7364.0	7776.1	8657.5	8997.1	8890.2	8871.2
5334.1	35°	5490.6	5563.1	5780.6	6036.2	6280.4	6948.1	7509.0	7409.8	7459.4
3922.4	37.5°	3907.1	4204.7	4414.6	4624.5	4800.0	5219.7	5895.0	5803.5	5853.1
2777.7	40°	2754.8	2888.4	3250.9	3342.4	3601.9	3796.5	4368.8	4338.3	4399.3
1724.6	42.5°	1694.1	1789.5	1972.6	2060.4	2235.9	2346.6	2682.3	2720.5	2800.6
953.9	45°	961.5	1003.5	1129.4	1224.8	1354.5	1400.3	1518.6	1572.0	1617.8
740.2	47.5°	732.6	778.4	862.3	946.3	1053.1	1091.2	1175.2	1255.3	1297.3
572.3	50°	599.0	641.0	728.8	797.5	904.3	938.6	1007.3	1095.1	1148.5
435.0	52.5°	454.1	515.1	621.9	694.4	805.1	847.1	911.9	999.7	1049.3
358.7	55°	373.9	419.7	515.1	614.3	717.3	774.6	816.5	923.4	976.8
293.8	57.5°	320.5	354.8	415.9	534.2	621.9	705.9	740.2	839.4	892.8
232.7	60°	244.2	297.6	351.0	442.6	541.8	629.6	667.7	755.5	797.5
167.9	62.5°	202.2	236.6	305.2	354.8	465.5	557.1	595.2	675.4	705.9
110.7	65°	141.2	190.8	255.6	286.2	389.2	476.9	530.4	591.4	621.9
64.9	67.5°	83.9	141.2	202.2	244.2	316.7	404.4	461.7	518.9	545.6
38.2	70°	53.4	110.7	160.3	206.0	248.0	332.0	400.6	450.2	438.8
22.9	72.5°	30.5	68.7	118.3	167.9	206.0	278.5	343.4	381.6	270.9
15.3	75°	19.1	49.6	99.2	137.4	167.9	221.3	282.4	290.0	167.9
7.6	77.5°	15.3	38.2	76.3	110.7	114.5	164.1	198.4	225.1	125.9
7.6	80°	7.6	30.5	64.9	91.6	72.5	114.5	152.6	175.5	99.2
3.8	82.5°	7.6	19.1	49.6	64.9	53.4	87.8	110.7	125.9	83.9
3.8	85°	3.8	15.3	26.7	38.2	38.2	57.2	49.6	61.0	53.4
3.8	87.5°	3.8	7.6	15.3	19.1	15.3	22.9	26.7	26.7	22.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
29990.3
29925.4
29482.8
28227.5
26144.2
23732.8
21122.9
18806.9
16651.1
14659.4
12999.6
11534.4
10160.8
8917.0
7505.2
5895.0
4422.2
2892.2
1614.0
1316.4
1171.4
1083.6
992.0
915.7
805.1
709.7
621.9
541.8
404.4
240.4
156.4
125.9
103.0
91.6
53.4
19.1
0.0

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