

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: P637615

Luminaire Tested: **IFLD-S-SA3D-735-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637615
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-735-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21593.3 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 184.1
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



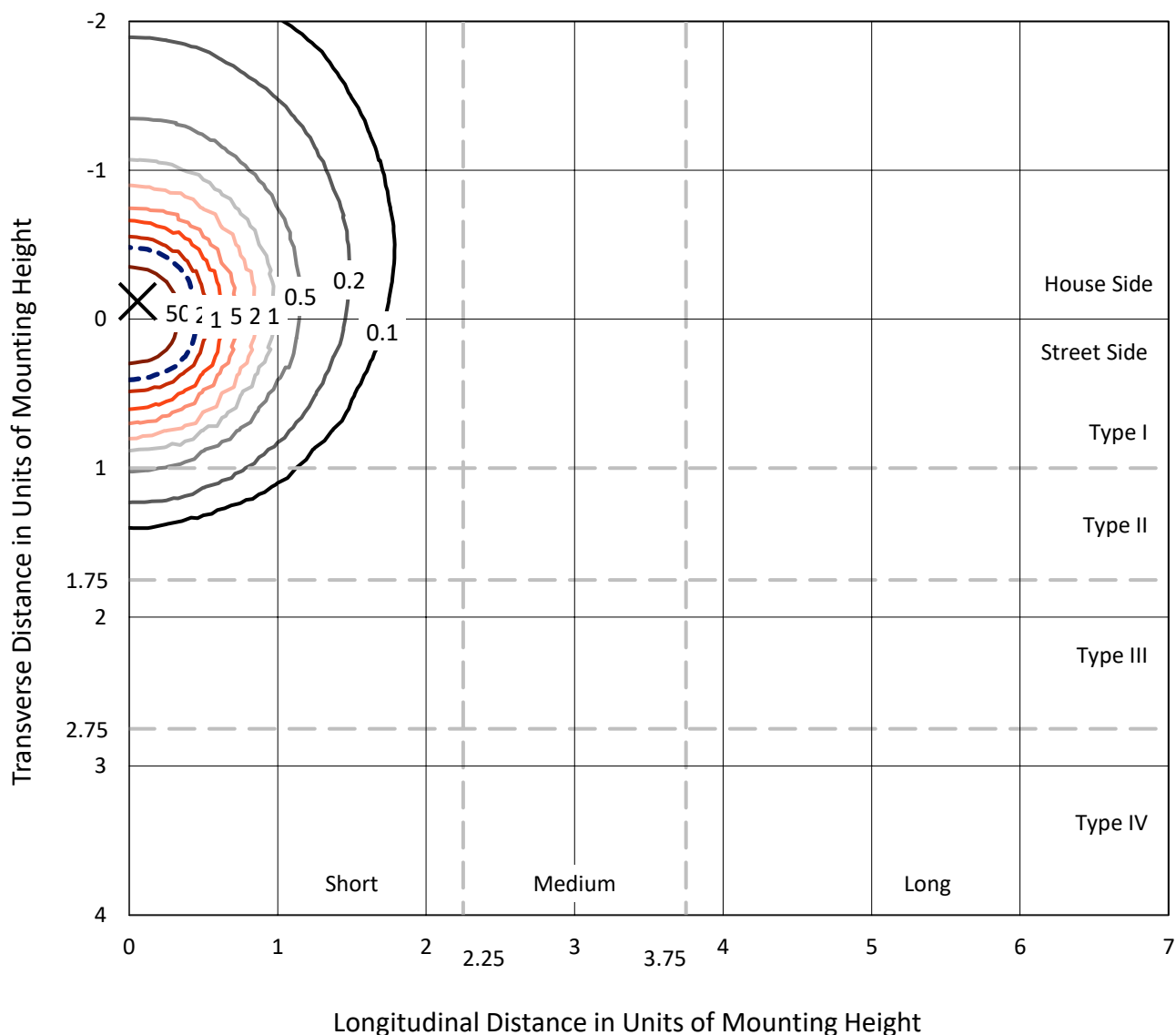
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

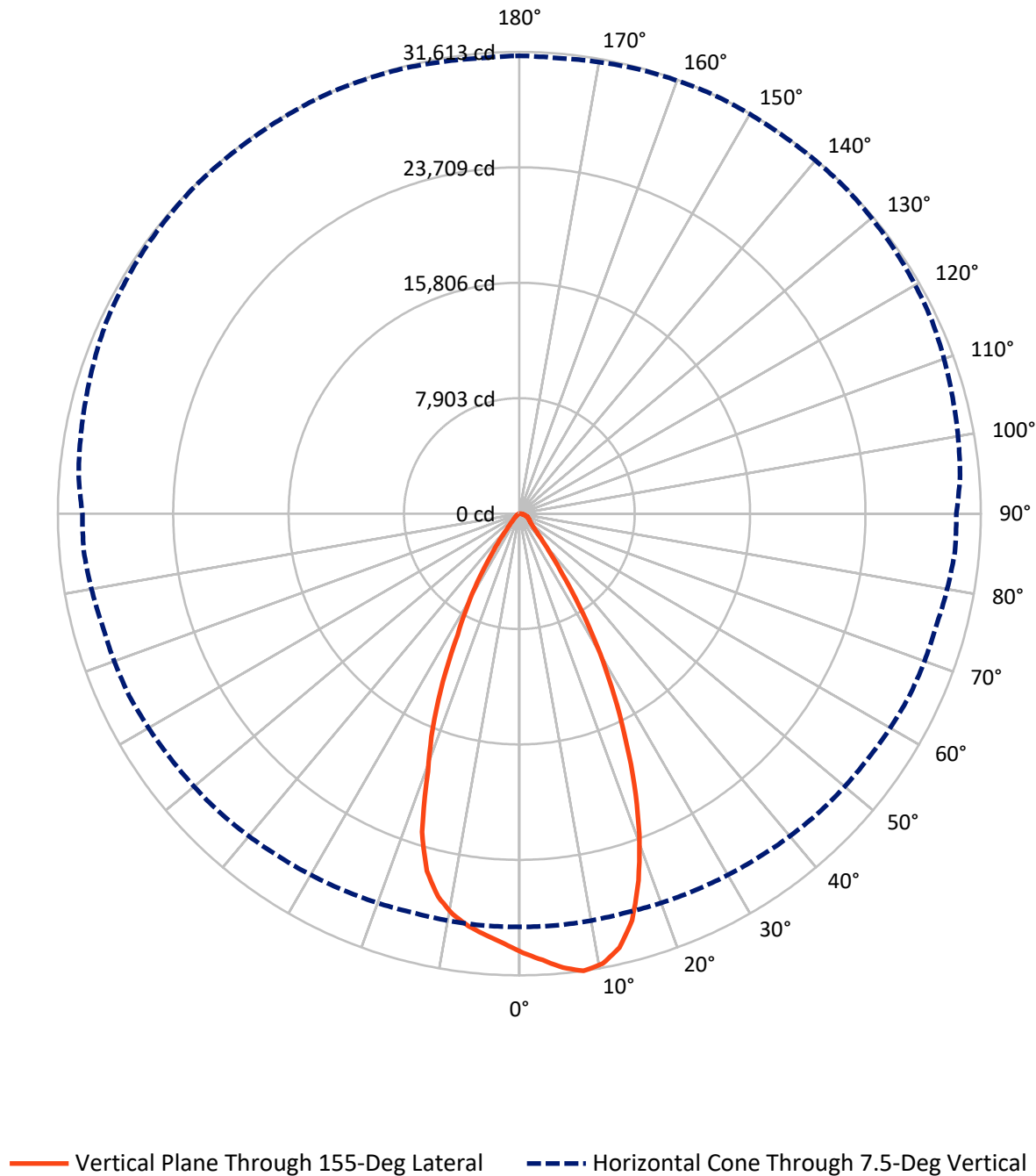


Based on 20 foot mounting height. Maximum calculated value = 76.4 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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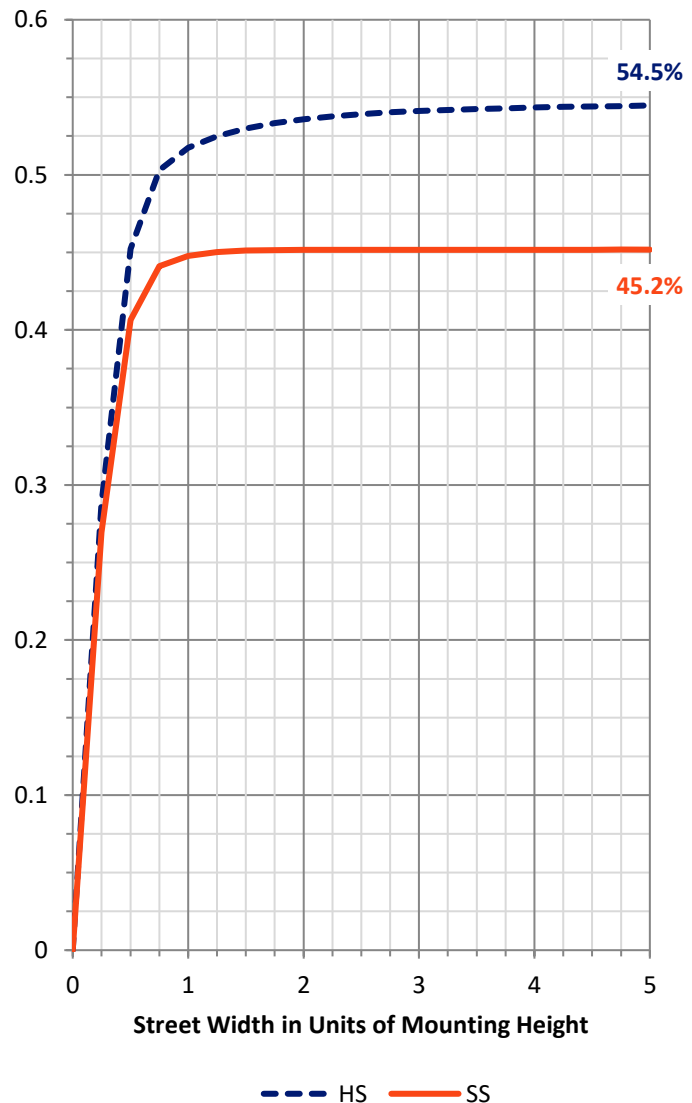
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11920.3	0.0	11920.3
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	9673.0	0.0	9673.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	21593.3	0.0	21593.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2868.4	13.3
10°-20°	7437.9	34.4
20°-30°	6815.2	31.6
30°-40°	2753.3	12.8
40°-50°	807.7	3.7
50°-60°	451.6	2.1
60°-70°	274.3	1.3
70°-80°	139.4	0.6
80°-90°	45.6	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°	21593.3	100.0
0°-180°	21593.3	100.0

Coefficient of Utilization



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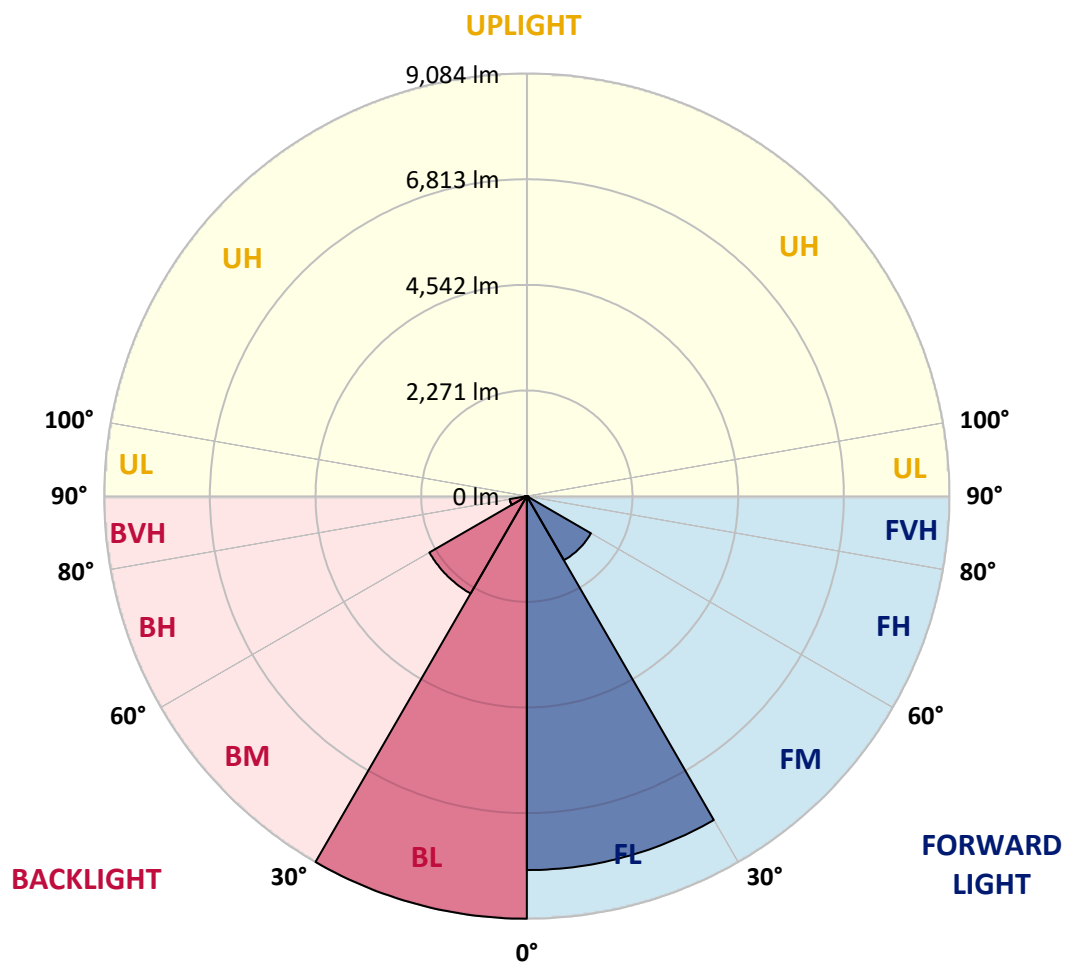
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8037.6	37.2			
FM	(30°-60°)	1592.9	7.4			
FH	(60°-80°)	38.6	0.2			G0/660
FVH	(80°-90°)	4.0	0.0			G0/10
BL	(0°-30°)	9083.9	42.1	B5		
BM	(30°-60°)	2419.7	11.2	B2/2500		
BH	(60°-80°)	375.1	1.7	B1/500		G1/500
BVH	(80°-90°)	41.6	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°	30081.1	30081.1	30081.1	30081.1	30081.1	30081.1	30081.1	30081.1	30081.1	30081.1
2.5°	29428.8	29528.4	29329.2	29461.1	29563.2	29807.3	29827.2	29911.8	29941.7	30163.3
5°	28871.0	28948.2	28786.4	28963.2	29107.6	29324.2	29491.0	29725.1	29854.6	30116.0
7.5°	28290.9	28308.3	28275.9	28462.7	28679.3	28978.1	29184.8	29491.0	29570.7	29944.2
10°	27588.7	27461.7	27524.0	27797.9	28121.6	28579.7	28721.6	29027.9	29169.8	29550.8
12.5°	26468.2	26533.0	26455.8	26804.4	27073.3	27593.7	27743.1	28051.8	28323.2	28659.4
15°	24889.6	24852.2	25009.1	25280.5	25571.8	25985.2	26226.7	26562.8	26769.5	27118.1
17.5°	21341.4	21468.4	22115.8	22795.5	23393.1	23876.2	24165.0	24443.9	24593.3	24971.8
20°	18430.6	18271.3	18358.4	18741.9	20442.5	21182.0	21485.8	21553.1	21615.3	21914.1
22.5°	15176.3	15124.0	15415.3	15846.1	16249.4	17955.1	18368.4	18211.5	18341.0	18622.4
25°	11269.5	11533.5	11792.4	12619.1	13142.0	13978.6	14762.9	14832.7	14880.0	15056.8
27.5°	9173.0	9080.9	9075.9	9307.5	10079.3	10776.5	11443.8	11598.2	11570.8	11740.1
30°	7210.9	7181.0	7076.5	7131.2	7054.0	7674.0	7987.8	8622.7	8587.9	8592.8
32.5°	5201.5	5089.5	5047.1	5129.3	5049.6	4992.4	5266.3	5983.4	5970.9	6020.7
35°	3147.3	3132.4	3167.2	3239.4	3080.1	3075.1	3132.4	3807.1	3889.3	3969.0
37.5°	1738.0	1723.0	1750.4	2016.9	1964.6	1917.3	1932.2	2288.3	2524.8	2584.6
40°	1145.4	1142.9	1162.8	1210.1	1299.8	1282.3	1289.8	1449.2	1673.2	1725.5
42.5°	766.9	769.4	781.8	836.6	849.1	938.7	923.8	961.1	1170.3	1215.1
45°	612.5	610.0	617.5	592.6	607.5	699.7	709.6	712.1	891.4	918.8
47.5°	483.1	483.1	490.5	458.2	450.7	508.0	560.2	567.7	712.1	749.5
50°	338.6	338.6	376.0	361.0	378.5	395.9	453.2	460.6	582.6	622.5
52.5°	249.0	254.0	259.0	261.4	318.7	316.2	366.0	400.9	440.7	510.4
55°	189.2	194.2	181.8	194.2	236.5	263.9	273.9	323.7	351.1	428.3
57.5°	124.5	136.9	127.0	149.4	159.4	204.2	219.1	266.4	283.9	351.1
60°	17.4	19.9	32.4	104.6	112.0	134.5	169.3	211.6	229.1	286.3
62.5°	2.5	2.5	7.5	17.4	74.7	89.6	127.0	146.9	169.3	214.1
65°	0.0	0.0	2.5	5.0	14.9	52.3	64.7	79.7	117.0	154.4
67.5°	0.0	0.0	2.5	5.0	7.5	17.4	27.4	52.3	67.2	107.1
70°	0.0	0.0	2.5	5.0	7.5	10.0	14.9	19.9	39.8	62.2
72.5°	0.0	0.0	2.5	5.0	7.5	10.0	12.4	14.9	17.4	39.8
75°	0.0	0.0	2.5	5.0	7.5	12.4	14.9	14.9	14.9	17.4
77.5°	0.0	0.0	2.5	5.0	10.0	14.9	17.4	14.9	12.4	12.4
80°	0.0	0.0	2.5	7.5	12.4	17.4	19.9	14.9	10.0	7.5
82.5°	0.0	0.0	2.5	7.5	12.4	17.4	19.9	17.4	10.0	7.5
85°	0.0	0.0	2.5	7.5	10.0	12.4	19.9	17.4	10.0	5.0
87.5°	0.0	0.0	0.0	2.5	2.5	5.0	10.0	7.5	5.0	2.5
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°
30081.1	0°	30081.1	30081.1	30081.1	30081.1	30081.1	30081.1	30081.1	30081.1	30081.1
30158.3	2.5°	30382.4	30494.5	30691.2	30746.0	30915.3	30721.1	30614.0	30624.0	30392.4
30083.6	5°	30382.4	30638.9	30982.5	31146.8	31271.3	31261.4	31234.0	31164.3	30995.0
29934.2	7.5°	30302.8	30721.1	31194.2	31413.3	31562.7	31550.2	31612.5	31500.4	31293.8
29667.8	10°	30046.3	30409.8	30992.5	31171.7	31413.3	31418.3	31341.1	31363.5	30995.0
28694.2	12.5°	29239.5	29523.4	30033.8	30238.0	30531.8	30579.1	30494.5	30462.1	30113.5
27098.2	15°	27678.3	27842.7	28355.6	28559.8	28851.1	28811.3	28895.9	28861.1	28554.8
24941.9	17.5°	25395.1	25447.3	25985.2	26157.0	26430.9	26537.9	26411.0	26572.8	26308.9
21966.4	20°	22120.8	22402.1	23007.2	23271.1	23430.5	23622.2	23455.4	23637.1	23328.4
18355.9	22.5°	18799.2	18966.0	19513.8	19894.7	20191.0	20228.4	20166.1	20293.1	19877.3
15173.8	25°	15171.3	15447.7	15880.9	16378.9	16670.2	16849.5	16687.7	16769.8	16702.6
11767.5	27.5°	11966.7	12213.2	12539.4	12910.4	13348.6	13582.7	13453.2	13592.7	13264.0
8774.6	30°	8782.1	8906.6	9275.1	9668.5	10149.1	10432.9	10445.4	10587.3	10393.1
6147.7	32.5°	6192.5	6302.1	6528.7	6790.1	7248.3	7564.5	7514.7	7534.6	7415.1
4006.3	35°	4026.3	4173.2	4335.0	4459.5	4735.9	5084.5	5057.1	5032.2	4950.0
2634.4	37.5°	2691.6	2748.9	2838.5	2950.6	3129.9	3349.0	3421.2	3331.6	3296.7
1777.8	40°	1820.2	1919.8	1979.5	2064.2	2148.8	2333.1	2382.9	2365.5	2330.6
1245.0	42.5°	1292.3	1369.5	1444.2	1526.3	1571.2	1685.7	1782.8	1755.4	1740.5
946.2	45°	981.0	1050.8	1137.9	1200.2	1245.0	1312.2	1404.3	1414.3	1391.9
759.4	47.5°	786.8	849.1	918.8	996.0	1048.3	1090.6	1170.3	1200.2	1185.2
639.9	50°	667.3	714.6	781.8	859.0	916.3	953.7	1023.4	1055.7	1045.8
535.3	52.5°	567.7	625.0	687.2	752.0	821.7	859.0	923.8	971.1	963.6
443.2	55°	470.6	545.3	610.0	674.8	754.5	791.8	849.1	911.3	898.9
376.0	57.5°	410.8	473.1	540.3	602.6	687.2	737.0	789.3	854.1	851.6
308.8	60°	343.6	405.9	480.6	532.9	622.5	692.2	739.5	806.7	811.7
234.1	62.5°	273.9	351.1	408.4	480.6	562.7	644.9	689.7	756.9	781.8
179.3	65°	204.2	288.8	353.6	425.8	503.0	595.1	634.9	702.2	727.1
129.5	67.5°	151.9	216.6	298.8	361.0	448.2	527.9	575.2	637.4	654.9
77.2	70°	114.5	166.8	249.0	303.8	393.4	458.2	505.5	552.8	575.2
52.3	72.5°	67.2	124.5	196.7	261.4	338.6	393.4	428.3	465.6	480.6
24.9	75°	47.3	94.6	154.4	216.6	273.9	318.7	351.1	383.5	398.4
12.4	77.5°	24.9	69.7	122.0	174.3	214.1	251.5	283.9	308.8	318.7
10.0	80°	14.9	49.8	99.6	136.9	164.3	196.7	229.1	246.5	244.0
7.5	82.5°	10.0	39.8	72.2	99.6	119.5	144.4	166.8	179.3	179.3
5.0	85°	7.5	27.4	49.8	77.2	79.7	99.6	104.6	117.0	119.5
5.0	87.5°	5.0	17.4	27.4	44.8	42.3	52.3	54.8	62.2	67.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
30081.1
30205.6
31049.7
31341.1
30887.9
30033.8
28651.9
26244.1
23303.5
19820.0
16660.3
13348.6
10427.9
7482.3
4877.8
3289.2
2335.6
1728.0
1389.4
1177.7
1043.3
958.6
898.9
849.1
811.7
779.4
724.6
654.9
570.2
475.6
393.4
316.2
241.5
176.8
117.0
64.7
0.0

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