

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: P637656

Luminaire Tested: **IFLD-L-SA7A-740-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637656
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-740-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29401.9 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

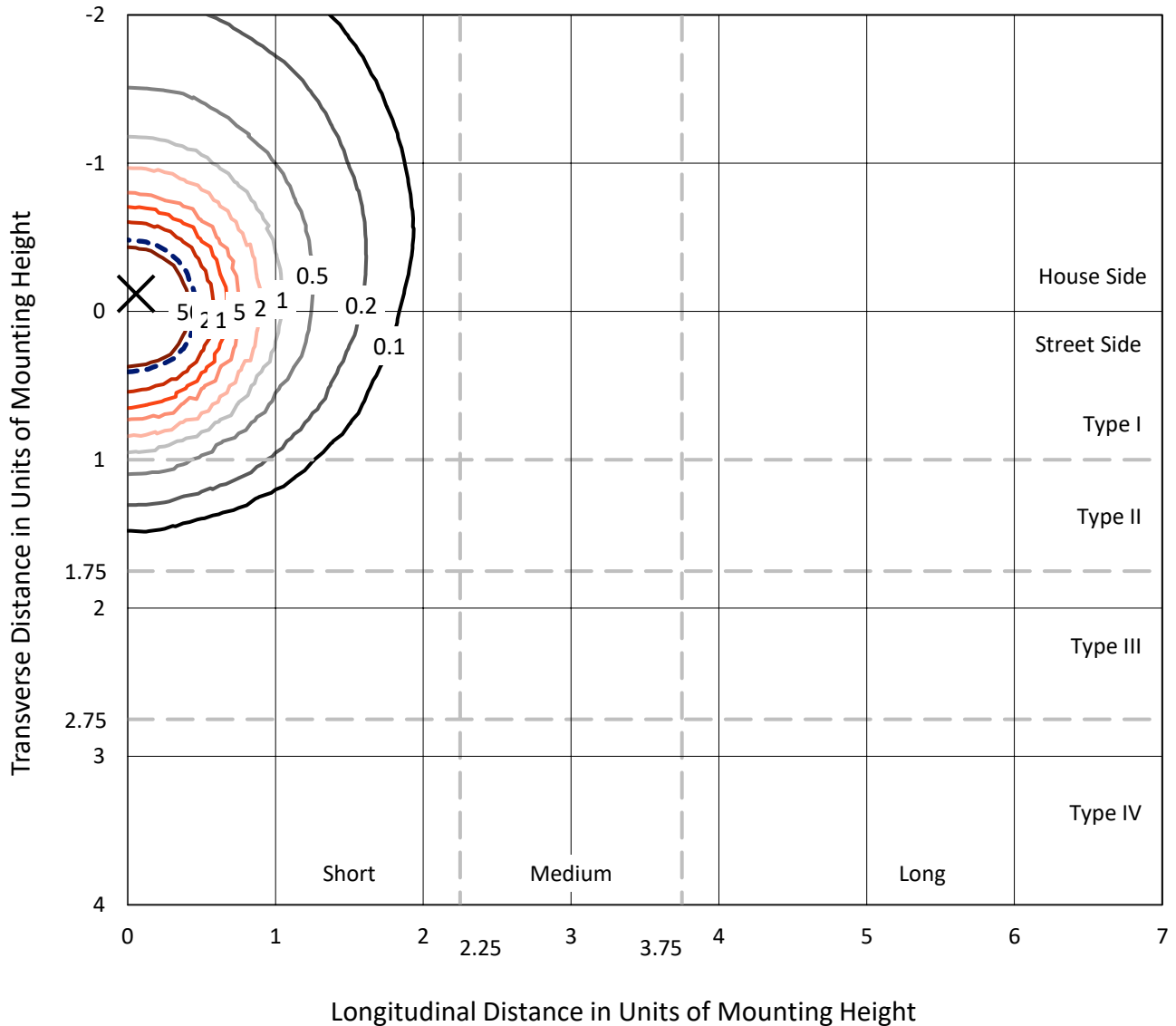
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

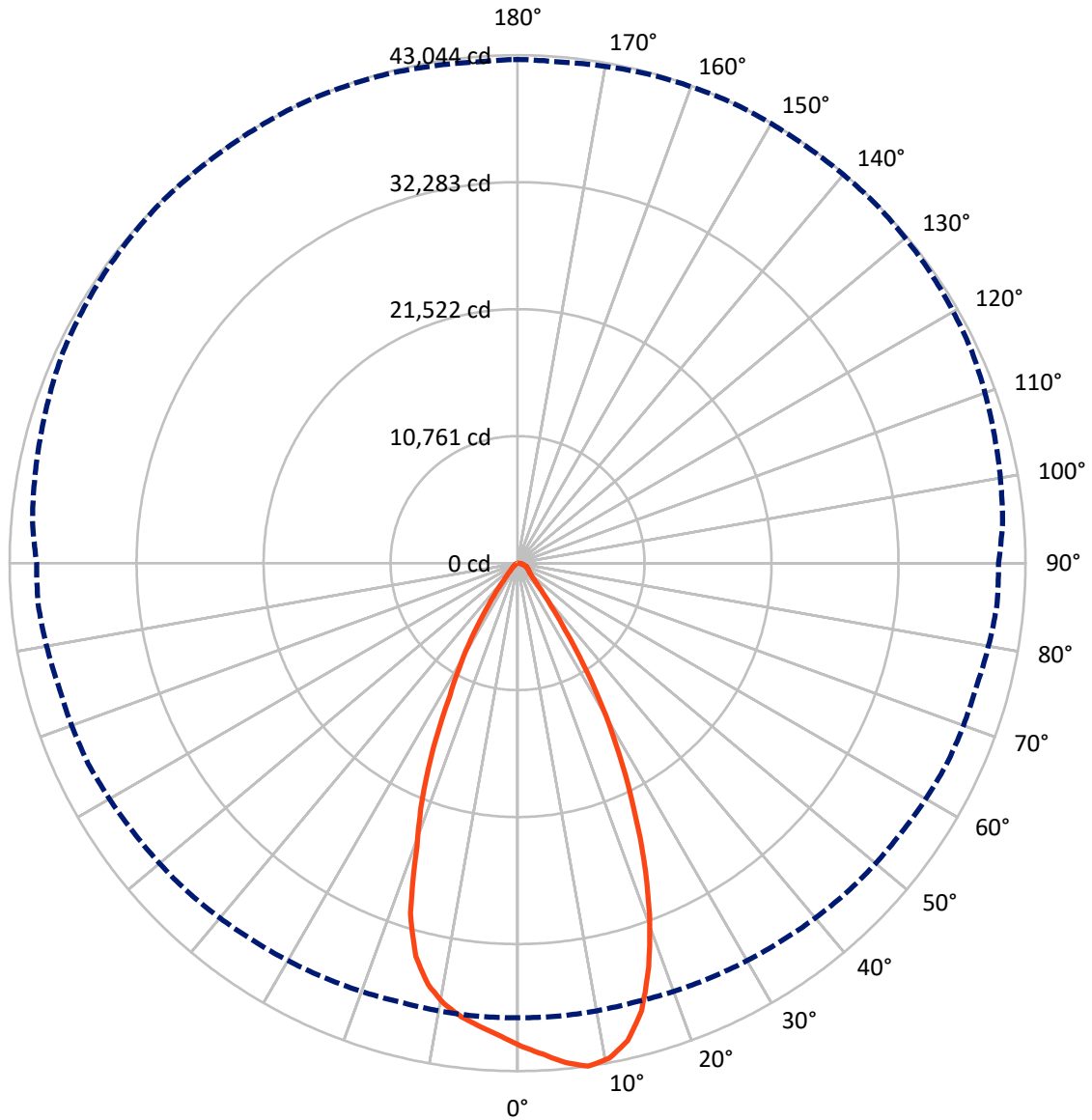
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 104.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 7.5-Deg Vertical

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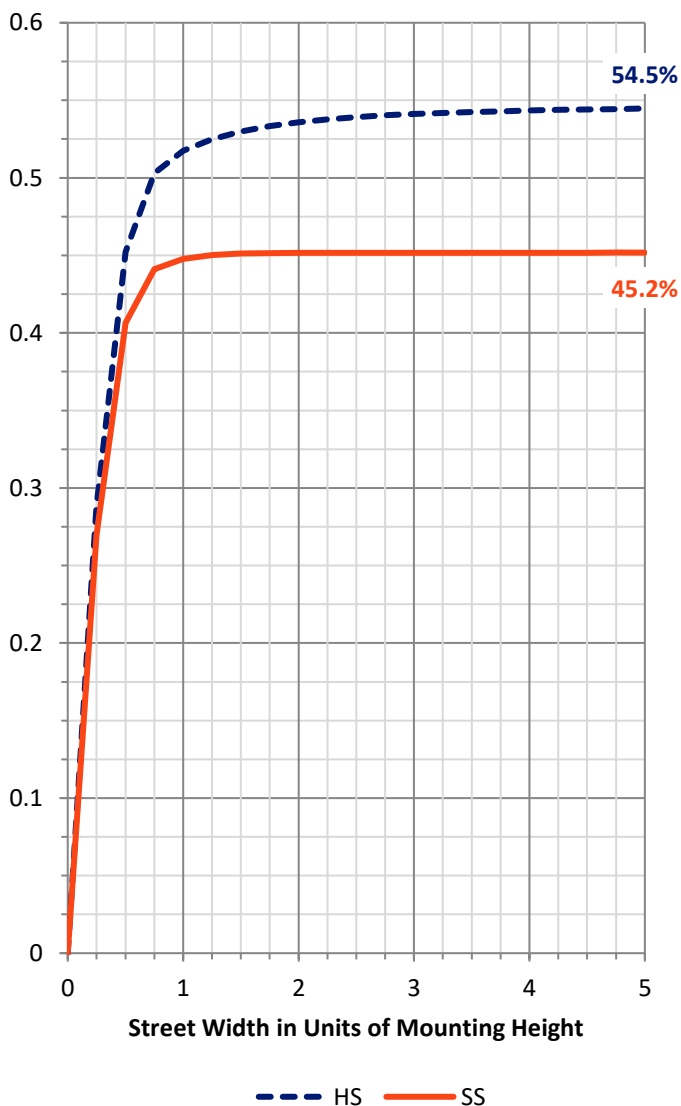
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16230.9	0.0	16230.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	13171.0	0.0	13171.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	29401.9	0.0	29401.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3905.7	13.3
10°-20°	10127.5	34.4
20°-30°	9279.7	31.6
30°-40°	3749.0	12.8
40°-50°	1099.8	3.7
50°-60°	614.9	2.1
60°-70°	373.5	1.3
70°-80°	189.8	0.6
80°-90°	62.1	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°	29401.9	100.0
0°-180°	29401.9	100.0



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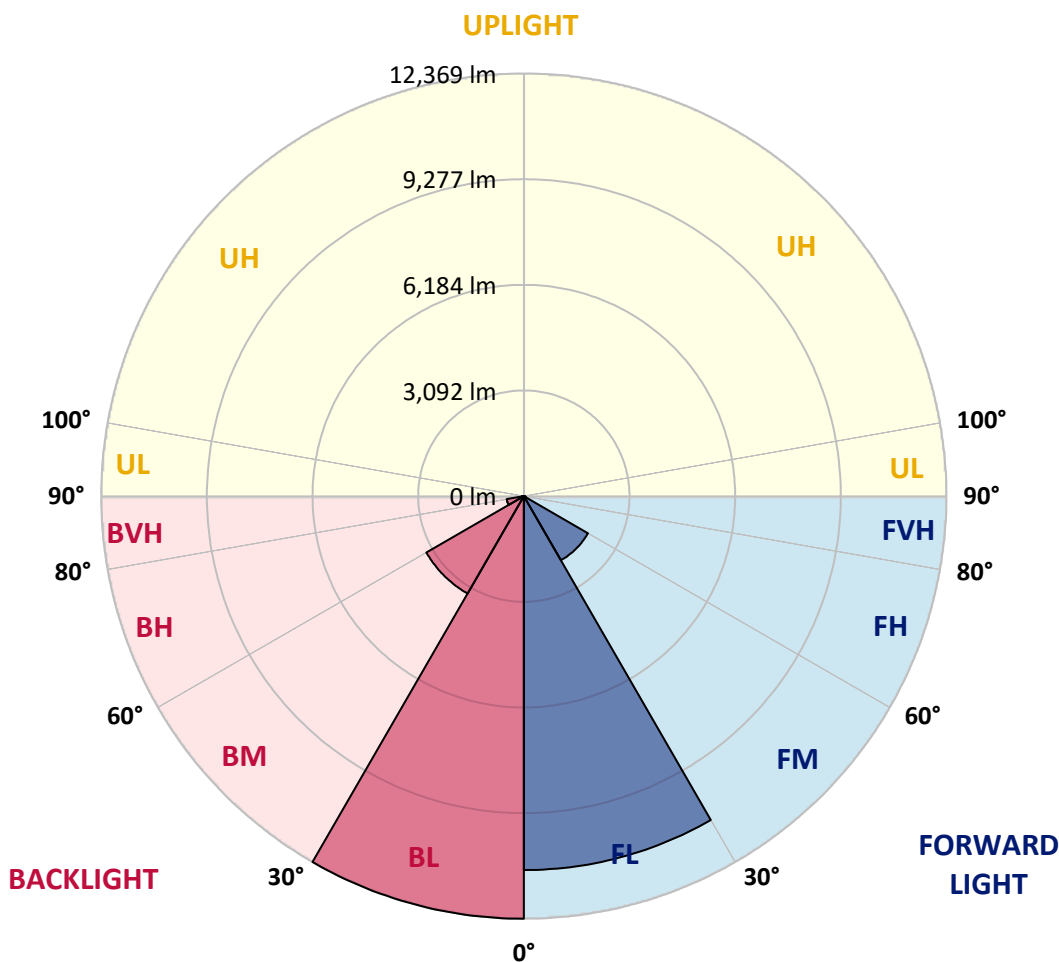
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10944.1	37.2			
FM (30°-60°)	2168.9	7.4			
FH (60°-80°)	52.5	0.2			G0/660
FVH (80°-90°)	5.4	0.0			G0/10
BL (0°-30°)	12368.8	42.1	B5		
BM (30°-60°)	3294.7	11.2	B3/5000		
BH (60°-80°)	510.7	1.7	B2/1000		G2/1000
BVH (80°-90°)	56.7	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	40959.1	40959.1	40959.1	40959.1	40959.1	40959.1	40959.1	40959.1	40959.1	40959.1
2.5°	40070.8	40206.4	39935.2	40114.9	40253.9	40586.2	40613.3	40728.6	40769.2	41071.0
5°	39311.4	39416.5	39196.1	39436.8	39633.5	39928.4	40155.6	40474.3	40650.6	41006.6
7.5°	38521.4	38545.2	38501.1	38755.4	39050.3	39457.2	39738.6	40155.6	40264.1	40772.6
10°	37565.3	37392.4	37477.2	37850.1	38290.9	38914.7	39108.0	39525.0	39718.2	40236.9
12.5°	36039.7	36127.8	36022.7	36497.4	36863.5	37572.1	37775.5	38195.9	38565.5	39023.2
15°	33890.2	33839.3	34052.9	34422.5	34819.1	35381.9	35710.8	36168.5	36449.9	36924.6
17.5°	29058.9	29231.8	30113.3	31038.9	31852.6	32510.3	32903.6	33283.3	33486.7	34002.1
20°	25095.5	24878.6	24997.2	25519.3	27835.0	28841.9	29255.5	29347.1	29431.8	29838.7
22.5°	20664.3	20593.1	20989.8	21576.3	22125.6	24448.0	25010.8	24797.2	24973.5	25356.6
25°	15344.8	15704.2	16056.8	17182.4	17894.4	19033.6	20101.5	20196.5	20260.9	20501.6
27.5°	12490.1	12364.7	12357.9	12673.2	13724.2	14673.5	15582.2	15792.4	15755.1	15985.6
30°	9818.5	9777.8	9635.4	9710.0	9604.9	10449.1	10876.3	11740.9	11693.4	11700.2
32.5°	7082.5	6929.9	6872.3	6984.2	6875.7	6797.7	7170.6	8147.1	8130.1	8197.9
35°	4285.4	4265.1	4312.6	4410.9	4193.9	4187.1	4265.1	5183.9	5295.8	5404.3
37.5°	2366.5	2346.1	2383.4	2746.2	2675.0	2610.6	2630.9	3115.8	3437.8	3519.2
40°	1559.6	1556.2	1583.3	1647.7	1769.8	1746.0	1756.2	1973.2	2278.3	2349.5
42.5°	1044.2	1047.6	1064.6	1139.2	1156.1	1278.2	1257.8	1308.7	1593.5	1654.5
45°	834.0	830.6	840.8	806.9	827.3	952.7	966.3	969.6	1213.8	1251.0
47.5°	657.7	657.7	667.9	623.8	613.7	691.6	762.8	773.0	969.6	1020.5
50°	461.1	461.1	511.9	491.6	515.3	539.1	617.0	627.2	793.3	847.6
52.5°	339.0	345.8	352.6	356.0	434.0	430.6	498.4	545.9	600.1	695.0
55°	257.7	264.4	247.5	264.4	322.1	359.4	372.9	440.7	478.0	583.1
57.5°	169.5	186.5	172.9	203.4	217.0	278.0	298.4	362.8	386.5	478.0
60°	23.7	27.1	44.1	142.4	152.6	183.1	230.5	288.2	311.9	389.9
62.5°	3.4	3.4	10.2	23.7	101.7	122.1	172.9	200.0	230.5	291.6
65°	0.0	0.0	3.4	6.8	20.3	71.2	88.1	108.5	159.3	210.2
67.5°	0.0	0.0	3.4	6.8	10.2	23.7	37.3	71.2	91.5	145.8
70°	0.0	0.0	3.4	6.8	10.2	13.6	20.3	27.1	54.2	84.8
72.5°	0.0	0.0	3.4	6.8	10.2	13.6	17.0	20.3	23.7	54.2
75°	0.0	0.0	3.4	6.8	10.2	17.0	20.3	20.3	20.3	23.7
77.5°	0.0	0.0	3.4	6.8	13.6	20.3	23.7	20.3	17.0	17.0
80°	0.0	0.0	3.4	10.2	17.0	23.7	27.1	20.3	13.6	10.2
82.5°	0.0	0.0	3.4	10.2	17.0	23.7	27.1	23.7	13.6	10.2
85°	0.0	0.0	3.4	10.2	13.6	17.0	27.1	23.7	13.6	6.8
87.5°	0.0	0.0	0.0	3.4	3.4	6.8	13.6	10.2	6.8	3.4
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°
40959.1	0°	40959.1	40959.1	40959.1	40959.1	40959.1	40959.1	40959.1	40959.1	40959.1
41064.2	2.5°	41369.3	41521.9	41789.7	41864.3	42094.9	41830.4	41684.6	41698.2	41382.9
40962.5	5°	41369.3	41718.5	42186.4	42410.2	42579.7	42566.1	42528.8	42433.9	42203.4
40759.1	7.5°	41260.8	41830.4	42474.6	42772.9	42976.4	42959.4	43044.2	42891.6	42610.2
40396.3	10°	40911.6	41406.6	42200.0	42444.1	42772.9	42779.7	42674.6	42705.1	42203.4
39070.7	12.5°	39813.2	40199.7	40894.7	41172.7	41572.8	41637.2	41521.9	41477.8	41003.2
36897.4	15°	37687.4	37911.2	38609.6	38887.6	39284.3	39230.0	39345.3	39297.8	38880.8
33961.4	17.5°	34578.4	34649.6	35381.9	35615.9	35988.8	36134.6	35961.7	36182.1	35822.7
29909.9	20°	30120.1	30503.2	31327.0	31686.4	31903.4	32164.5	31937.3	32184.8	31764.4
24993.8	22.5°	25597.3	25824.5	26570.4	27089.1	27492.5	27543.4	27458.6	27631.5	27065.3
20660.9	25°	20657.5	21033.9	21623.8	22301.9	22698.5	22942.7	22722.3	22834.2	22742.6
16022.9	27.5°	16294.1	16629.8	17073.9	17579.1	18175.8	18494.5	18318.2	18508.0	18060.5
11947.7	30°	11957.8	12127.4	12629.1	13164.8	13819.2	14205.7	14222.6	14415.9	14151.4
8370.8	32.5°	8431.9	8581.0	8889.6	9245.5	9869.4	10300.0	10232.1	10259.3	10096.5
5455.1	35°	5482.2	5682.3	5902.6	6072.2	6448.5	6923.1	6885.8	6851.9	6740.1
3587.0	37.5°	3665.0	3743.0	3865.0	4017.6	4261.7	4560.1	4658.4	4536.3	4488.9
2420.7	40°	2478.4	2614.0	2695.3	2810.6	2925.9	3176.8	3244.6	3220.9	3173.4
1695.2	42.5°	1759.6	1864.7	1966.4	2078.3	2139.3	2295.3	2427.5	2390.2	2369.9
1288.3	45°	1335.8	1430.7	1549.4	1634.2	1695.2	1786.7	1912.2	1925.7	1895.2
1034.1	47.5°	1071.4	1156.1	1251.0	1356.1	1427.3	1485.0	1593.5	1634.2	1613.8
871.3	50°	908.6	973.0	1064.6	1169.7	1247.7	1298.5	1393.4	1437.5	1424.0
728.9	52.5°	773.0	851.0	935.7	1023.9	1118.8	1169.7	1257.8	1322.2	1312.1
603.5	55°	640.8	742.5	830.6	918.8	1027.3	1078.1	1156.1	1240.9	1223.9
511.9	57.5°	559.4	644.2	735.7	820.5	935.7	1003.6	1074.7	1162.9	1159.5
420.4	60°	467.9	552.6	654.3	725.5	847.6	942.5	1006.9	1098.5	1105.3
318.7	62.5°	372.9	478.0	556.0	654.3	766.2	878.1	939.1	1030.7	1064.6
244.1	65°	278.0	393.3	481.4	579.8	684.9	810.3	864.5	956.1	990.0
176.3	67.5°	206.8	295.0	406.8	491.6	610.3	718.8	783.2	867.9	891.7
105.1	70°	156.0	227.2	339.0	413.6	535.7	623.8	688.2	752.7	783.2
71.2	72.5°	91.5	169.5	267.8	356.0	461.1	535.7	583.1	634.0	654.3
33.9	75°	64.4	128.8	210.2	295.0	372.9	434.0	478.0	522.1	542.5
17.0	77.5°	33.9	94.9	166.1	237.3	291.6	342.4	386.5	420.4	434.0
13.6	80°	20.3	67.8	135.6	186.5	223.8	267.8	311.9	335.6	332.3
10.2	82.5°	13.6	54.2	98.3	135.6	162.7	196.6	227.2	244.1	244.1
6.8	85°	10.2	37.3	67.8	105.1	108.5	135.6	142.4	159.3	162.7
6.8	87.5°	6.8	23.7	37.3	61.0	57.6	71.2	74.6	84.8	91.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
40959.1
41128.6
42278.0
42674.6
42057.6
40894.7
39013.0
35734.5
31730.5
26987.4
22685.0
18175.8
14198.9
10188.1
6641.7
4478.7
3180.2
2352.9
1891.8
1603.6
1420.6
1305.3
1223.9
1156.1
1105.3
1061.2
986.6
891.7
776.4
647.6
535.7
430.6
328.9
240.7
159.3
88.1
0.0

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