

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: P637343

Luminaire Tested: **IFLD-L-SA8B-730-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637343
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-730-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35743.9 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

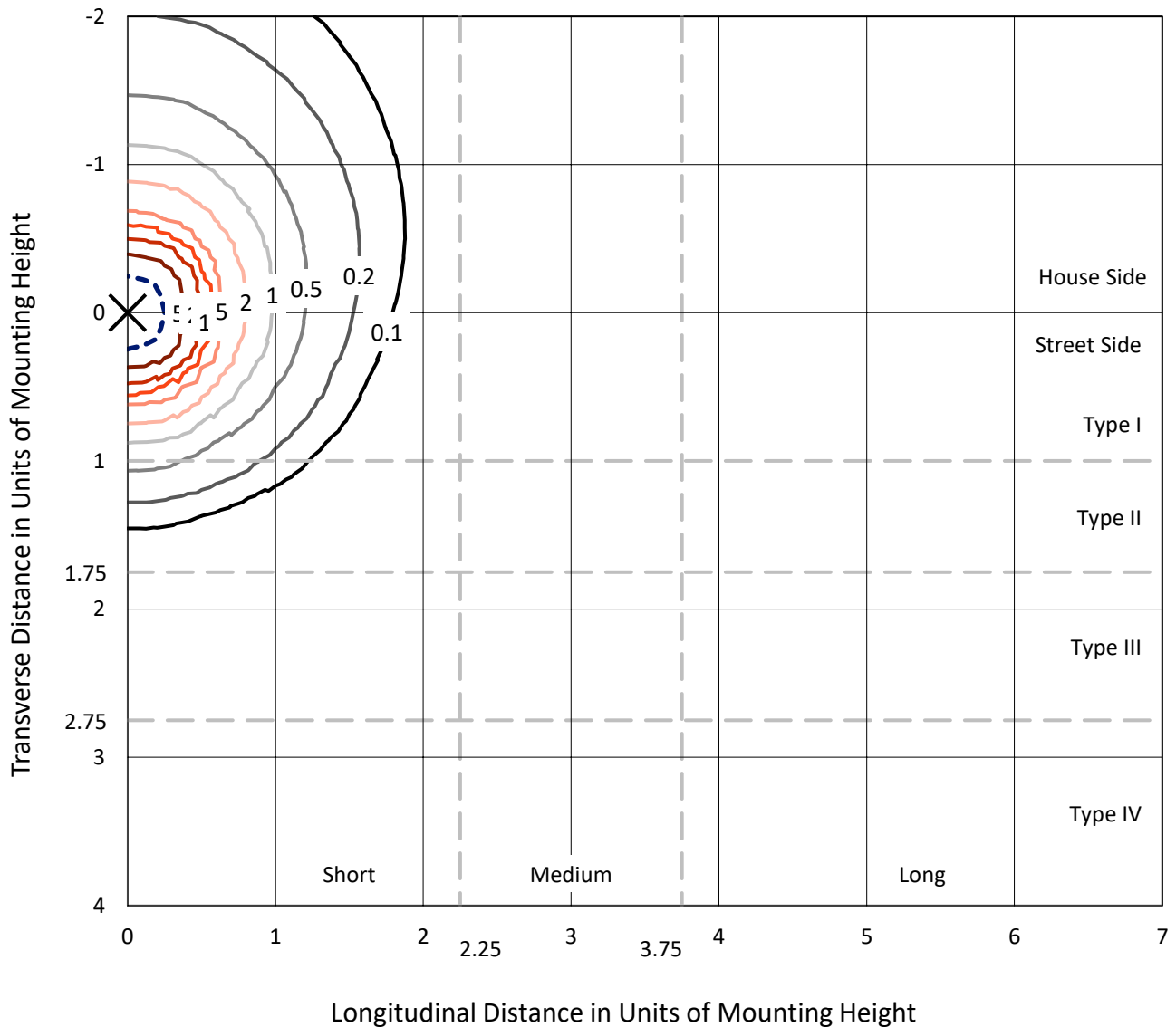
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

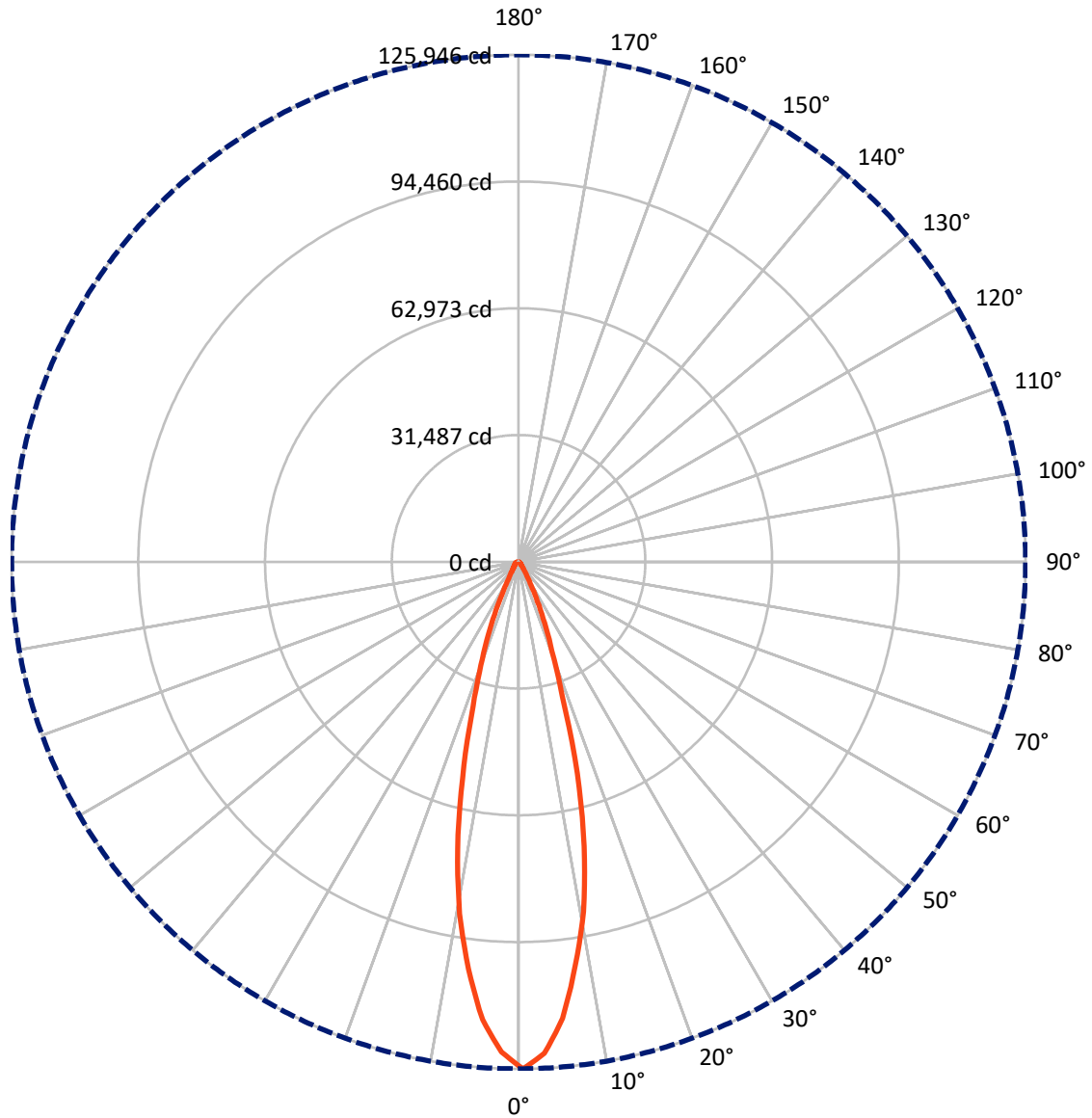
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 314.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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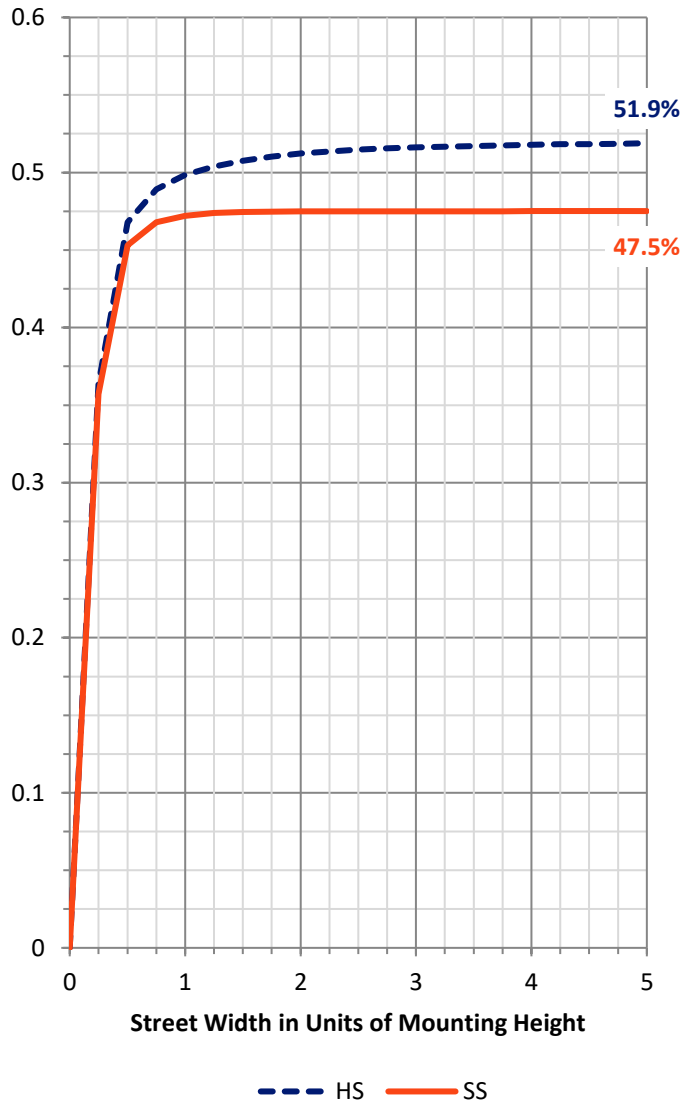
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18846.6	0.0	18846.6
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	16897.3	0.0	16897.3
	% Fixture	47.3	0.0	47.3
Total	Lumens	35743.9	0.0	35743.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10165.0	28.4
10°-20°	15394.8	43.1
20°-30°	6496.7	18.2
30°-40°	1694.4	4.7
40°-50°	857.0	2.4
50°-60°	560.2	1.6
60°-70°	335.6	0.9
70°-80°	176.6	0.5
80°-90°	63.8	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°	35743.9	100.0
0°-180°	35743.9	100.0

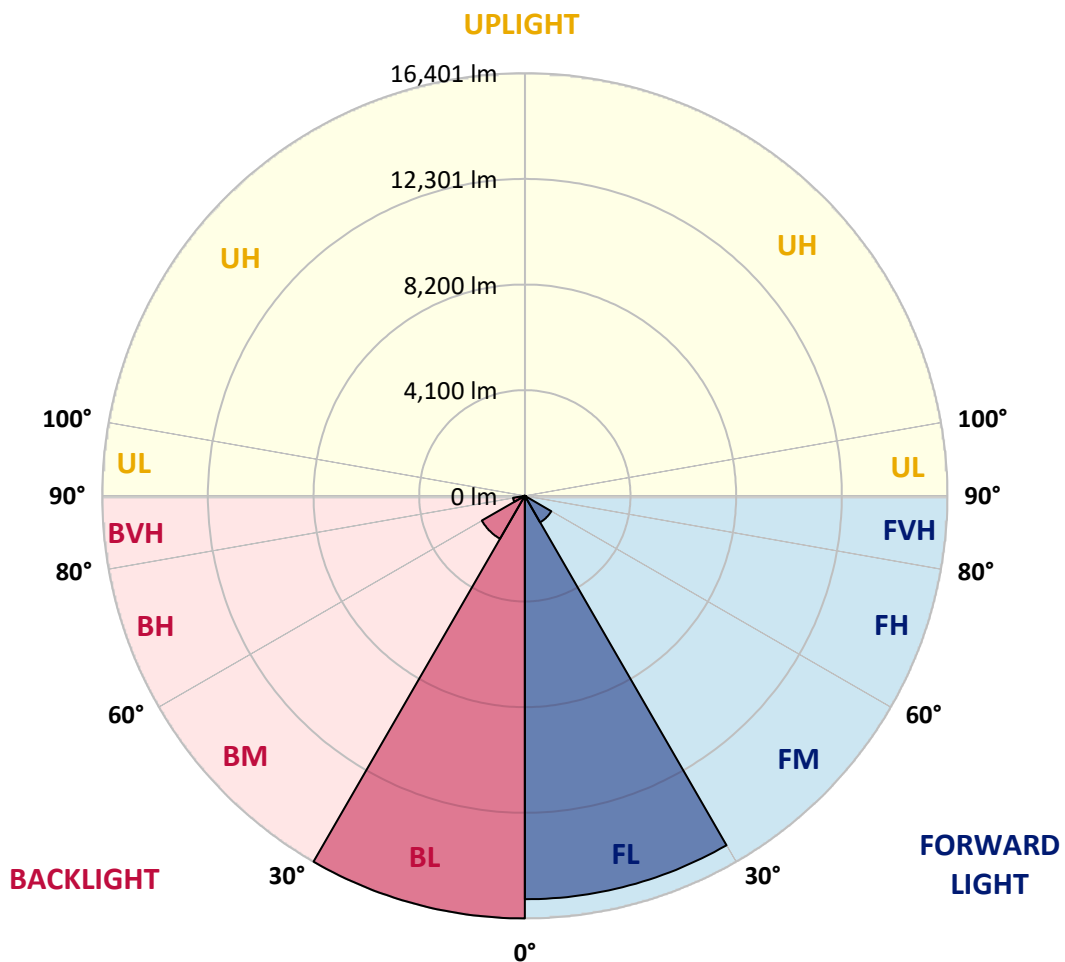


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	15655.6	43.8			
FM (30°-60°)	1185.6	3.3			
FH (60°-80°)	48.3	0.1			G0/660
FVH (80°-90°)	7.8	0.0			G0/10
BL (0°-30°)	16400.8	45.9	B5		
BM (30°-60°)	1925.9	5.4	B2/2500		
BH (60°-80°)	463.8	1.3	B1/500		G0/660
BVH (80°-90°)	56.0	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 V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	125946.2	125946.2	125946.2	125946.2	125946.2	125946.2	125946.2	125946.2	125946.2	125946.2
2.5°	122277.4	122345.6	122092.7	122638.6	122213.1	123353.1	122787.1	123670.2	123373.2	123866.9
5°	113928.0	113815.6	113743.4	114590.4	114345.5	115569.8	114787.1	114530.1	115324.9	115180.4
7.5°	101319.8	101616.8	101448.2	101669.0	101793.4	103190.3	103631.9	103286.7	103298.7	103499.4
10°	88394.4	87956.8	87334.7	87748.1	88623.2	89233.3	88988.5	89494.2	89381.8	89859.5
12.5°	72490.5	72835.7	72486.5	72117.2	73646.6	73478.0	73903.5	74180.5	73486.0	75031.5
15°	54603.7	54784.4	55209.9	55181.8	56357.9	56594.7	56538.5	56831.6	56289.6	56546.6
17.5°	35079.2	35689.3	36833.3	38768.1	40943.8	41196.7	41132.4	40891.6	40630.7	40341.7
20°	23562.7	23498.5	23912.0	24477.9	28981.8	30173.9	30137.8	29383.2	28291.3	28082.6
22.5°	16506.0	16626.4	16570.2	17132.2	18063.4	21351.0	20945.5	20178.9	19821.6	19588.8
25°	10858.1	10814.0	11095.0	11263.5	12062.4	12463.8	13884.8	13599.8	13049.8	13110.0
27.5°	6619.2	6675.4	6779.8	6924.3	7490.3	7361.8	8172.7	8281.1	8104.5	7915.8
30°	4062.3	4102.4	4186.7	4291.1	4487.8	4347.3	4572.1	4961.4	4897.2	4764.7
32.5°	2757.7	2761.7	2821.9	2862.0	2838.0	2705.5	2777.8	3147.1	3155.1	3143.0
35°	1983.0	1983.0	2039.2	2071.3	2003.0	1894.7	1906.7	2135.5	2235.9	2255.9
37.5°	1368.8	1372.8	1469.2	1565.5	1489.2	1461.1	1413.0	1565.5	1726.1	1750.1
40°	1039.7	1035.6	1083.8	1156.1	1164.1	1111.9	1128.0	1224.3	1388.9	1408.9
42.5°	843.0	847.0	871.1	863.0	867.0	935.3	959.4	1003.5	1156.1	1192.2
45°	710.5	714.5	726.6	686.4	670.4	774.7	806.8	830.9	959.4	1003.5
47.5°	586.1	594.1	606.1	562.0	553.9	622.2	678.4	702.5	814.9	863.0
50°	421.5	429.5	473.7	449.6	473.7	489.7	566.0	602.1	678.4	742.6
52.5°	305.1	313.1	325.1	329.2	389.4	397.4	453.6	509.8	545.9	618.2
55°	240.8	248.9	240.8	232.8	285.0	329.2	349.2	409.4	437.5	521.8
57.5°	136.5	144.5	156.5	180.6	188.7	252.9	273.0	325.1	349.2	429.5
60°	24.1	28.1	44.2	108.4	132.5	160.6	204.7	248.9	281.0	337.2
62.5°	4.0	4.0	8.0	24.1	76.3	112.4	148.5	176.6	204.7	256.9
65°	0.0	0.0	4.0	8.0	20.1	64.2	80.3	104.4	140.5	184.6
67.5°	0.0	0.0	4.0	8.0	12.0	24.1	36.1	64.2	80.3	124.4
70°	0.0	0.0	4.0	8.0	12.0	16.1	20.1	28.1	48.2	76.3
72.5°	0.0	0.0	4.0	8.0	12.0	16.1	20.1	24.1	24.1	48.2
75°	0.0	0.0	4.0	8.0	12.0	20.1	24.1	24.1	20.1	20.1
77.5°	0.0	0.0	4.0	8.0	16.1	24.1	28.1	24.1	16.1	16.1
80°	0.0	0.0	8.0	12.0	20.1	28.1	36.1	28.1	16.1	8.0
82.5°	0.0	0.0	8.0	16.1	20.1	32.1	44.2	36.1	16.1	8.0
85°	0.0	0.0	4.0	12.0	24.1	32.1	44.2	32.1	16.1	4.0
87.5°	0.0	0.0	4.0	4.0	8.0	12.0	24.1	20.1	8.0	4.0
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°
125946.2	0°	125946.2	125946.2	125946.2	125946.2	125946.2	125946.2	125946.2	125946.2	125946.2
122931.6	2.5°	123638.1	124280.4	124412.8	124236.2	124493.1	124031.5	123678.3	122763.1	122213.1
115136.3	5°	115878.9	115782.5	116452.9	116673.7	116645.6	116292.3	115798.6	115244.7	114706.8
103110.0	7.5°	103752.3	103876.7	104486.9	104876.3	104679.6	104238.0	103896.8	103479.3	103118.1
90032.1	10°	90855.0	90000.0	90758.7	90758.7	91284.5	90036.1	90152.6	89100.9	89149.0
75003.4	12.5°	75260.3	75569.3	75693.8	76051.0	75436.9	74774.6	73963.7	73803.1	73301.4
56056.8	15°	56863.7	57746.8	56988.1	58284.7	57658.5	56968.0	56843.6	55599.2	55992.6
40658.8	17.5°	40458.1	41433.5	41738.6	42481.2	41911.2	41501.7	40983.9	40606.6	40578.5
28463.9	20°	28688.7	29668.2	29893.0	30784.1	30719.9	30591.4	30153.9	29676.2	29158.4
19376.0	22.5°	19669.1	20467.9	21214.5	22414.7	22394.6	22017.3	21973.2	21298.8	21310.8
13090.0	25°	13226.4	13808.5	13985.1	15213.4	15349.9	15309.8	15081.0	14454.8	14691.6
7996.1	27.5°	8004.1	8513.9	9112.0	9545.5	9955.0	9890.7	9661.9	9312.7	9160.2
4804.9	30°	4933.3	5162.1	5382.9	5904.7	6149.6	6278.0	6169.7	5844.5	5868.6
3163.1	32.5°	3231.3	3424.0	3584.6	3913.7	4042.2	4279.0	4234.9	4166.6	4086.3
2276.0	35°	2356.3	2496.8	2605.1	2757.7	2922.3	3123.0	3155.1	3127.0	3094.9
1758.2	37.5°	1798.3	1942.8	2067.3	2131.5	2259.9	2416.5	2504.8	2500.8	2476.7
1433.0	40°	1461.1	1569.5	1681.9	1766.2	1854.5	1970.9	2079.3	2091.3	2091.3
1204.2	42.5°	1220.3	1312.6	1425.0	1513.3	1577.5	1685.9	1798.3	1806.3	1798.3
1019.6	45°	1043.7	1123.9	1232.3	1336.7	1388.9	1469.2	1577.5	1601.6	1585.6
875.1	47.5°	907.2	979.4	1071.8	1184.2	1240.4	1312.6	1413.0	1441.1	1437.0
754.6	50°	778.7	863.0	955.4	1047.7	1119.9	1188.2	1284.5	1316.6	1304.6
642.3	52.5°	686.4	762.7	843.0	943.3	1027.6	1087.8	1164.1	1220.3	1204.2
541.9	55°	574.0	666.3	750.6	834.9	939.3	1003.5	1075.8	1144.0	1128.0
457.6	57.5°	497.7	574.0	670.4	746.6	851.0	927.3	999.5	1071.8	1067.7
373.3	60°	417.5	497.7	590.1	670.4	766.7	851.0	923.2	1003.5	1011.6
281.0	62.5°	329.2	425.5	505.8	598.1	694.4	786.8	851.0	931.3	943.3
212.7	65°	248.9	349.2	437.5	525.8	622.2	722.5	778.7	847.0	859.0
156.5	67.5°	184.6	268.9	373.3	453.6	553.9	650.3	702.5	758.7	778.7
96.3	70°	140.5	204.7	313.1	389.4	493.7	570.0	626.2	674.4	690.4
64.2	72.5°	88.3	160.6	252.9	333.2	425.5	493.7	533.9	562.0	586.1
36.1	75°	60.2	124.4	204.7	285.0	353.2	405.4	441.6	465.6	485.7
16.1	77.5°	36.1	96.3	168.6	236.8	281.0	321.1	357.3	373.3	385.4
12.0	80°	20.1	72.3	140.5	192.7	220.8	248.9	277.0	297.0	305.1
8.0	82.5°	12.0	56.2	112.4	148.5	160.6	188.7	216.8	228.8	228.8
4.0	85°	8.0	40.1	76.3	108.4	116.4	136.5	144.5	152.5	160.6
4.0	87.5°	8.0	24.1	48.2	60.2	64.2	72.3	76.3	84.3	92.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
125946.2
121807.7
114104.7
101893.8
88679.4
72843.8
55599.2
39831.9
28933.6
21078.0
14318.3
9027.7
5764.2
4058.2
3082.8
2464.7
2067.3
1790.3
1585.6
1429.0
1296.6
1200.2
1136.0
1071.8
1015.6
951.3
871.1
786.8
698.5
582.0
481.7
381.3
297.0
224.8
156.5
88.3
0.0

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