

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: P637401

Luminaire Tested: **IFLD-L-SA8B-740-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637401
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-740-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39253.2 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

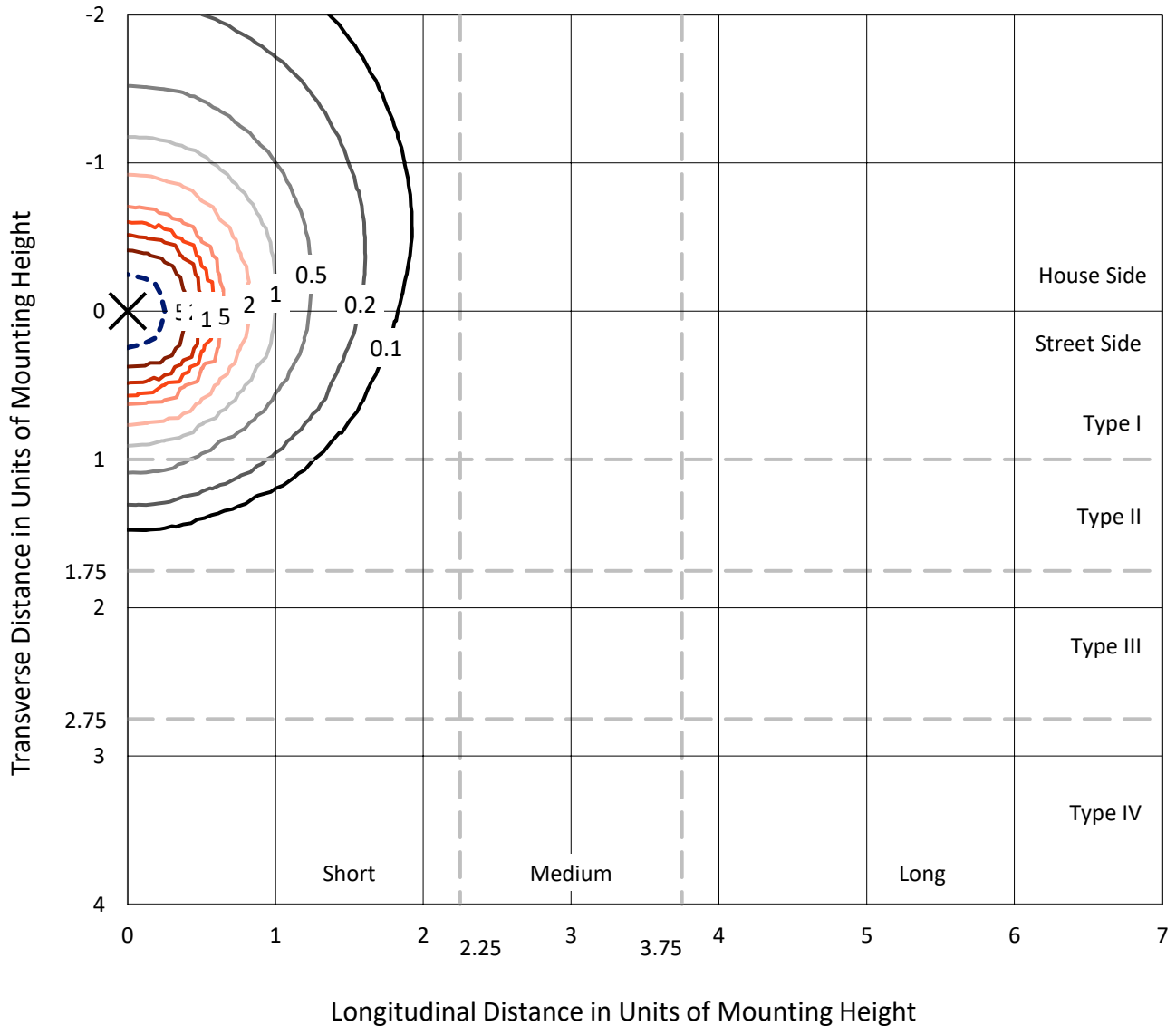
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

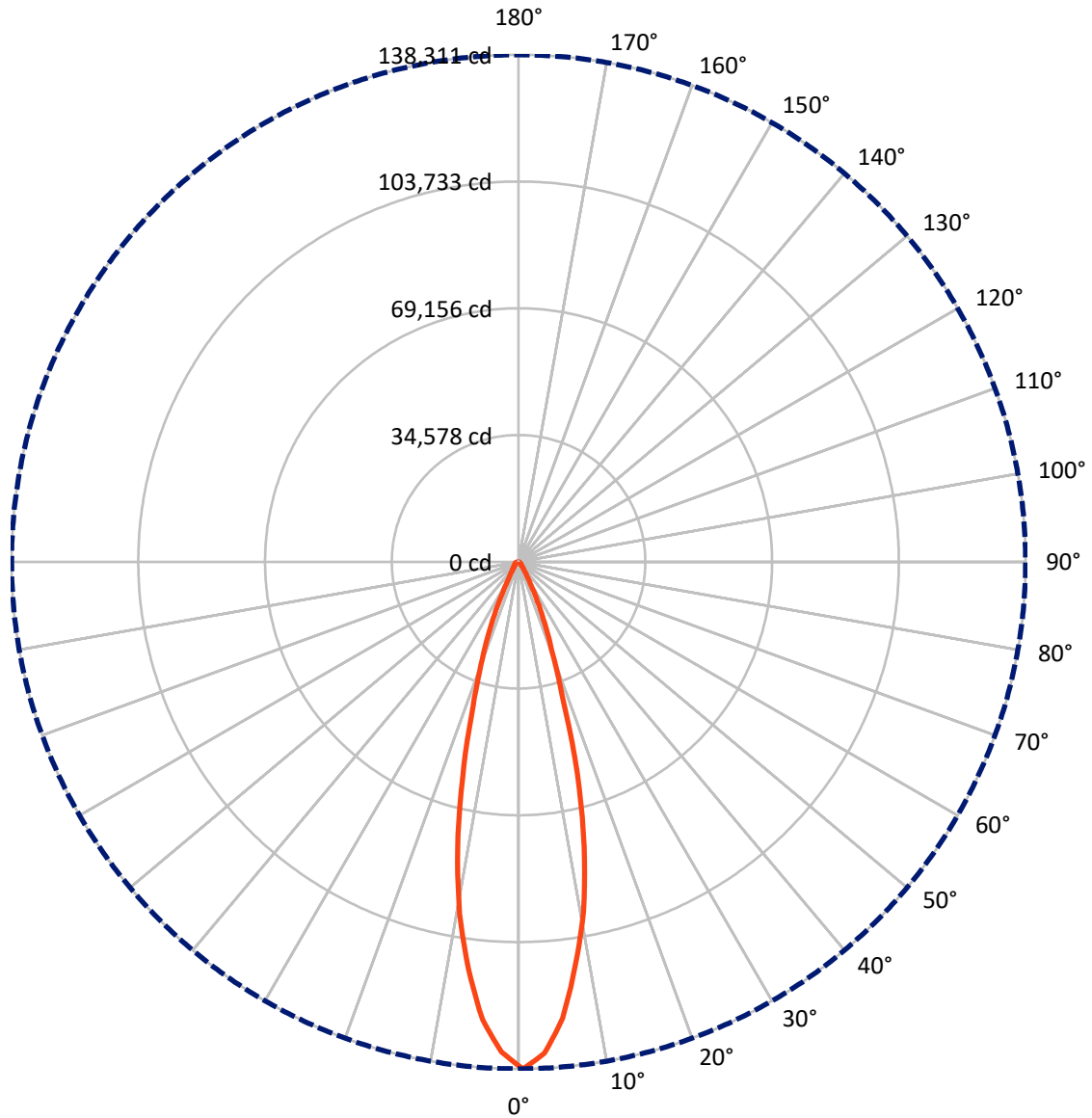
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 345.8 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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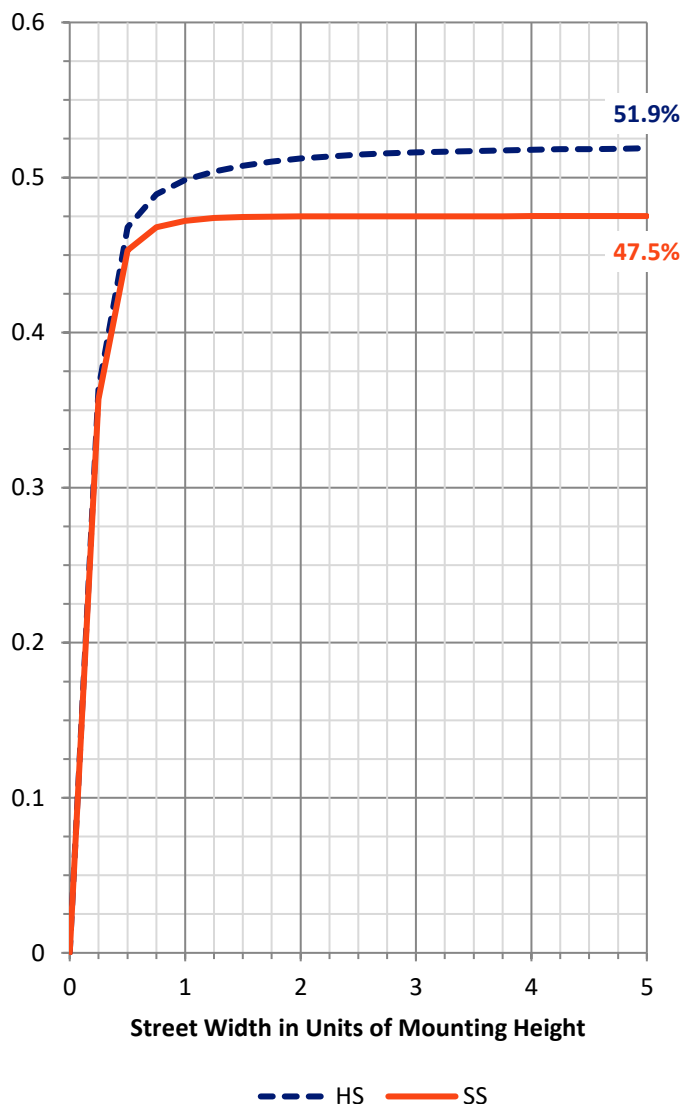
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20696.9	0.0	20696.9
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	18556.2	0.0	18556.2
	% Fixture	47.3	0.0	47.3
Total	Lumens	39253.2	0.0	39253.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11163.0	28.4
10°-20°	16906.2	43.1
20°-30°	7134.5	18.2
30°-40°	1860.7	4.7
40°-50°	941.1	2.4
50°-60°	615.2	1.6
60°-70°	368.6	0.9
70°-80°	193.9	0.5
80°-90°	70.0	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°	39253.2	100.0
0°-180°	39253.2	100.0

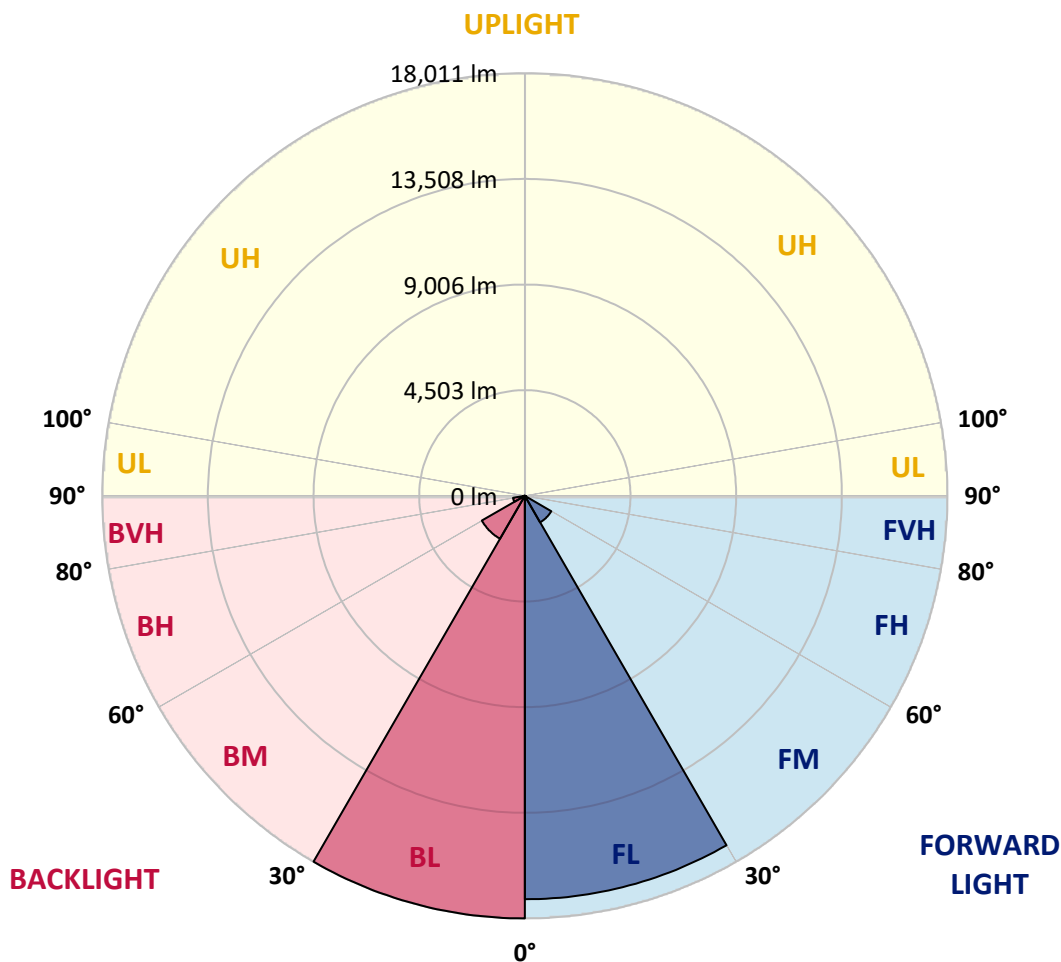


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	17192.6	43.8			
FM (30°-60°)	1302.0	3.3			
FH (60°-80°)	53.0	0.1			G0/660
FVH (80°-90°)	8.5	0.0			G0/10
BL (0°-30°)	18011.0	45.9	B5		
BM (30°-60°)	2115.0	5.4	B2/2500		
BH (60°-80°)	509.4	1.3	B2/1000		G0/660
BVH (80°-90°)	61.5	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°	138311.3	138311.3	138311.3	138311.3	138311.3	138311.3	138311.3	138311.3	138311.3	138311.3
2.5°	134282.2	134357.1	134079.4	134678.9	134211.6	135463.6	134842.0	135811.8	135485.6	136027.8
5°	125113.1	124989.7	124910.4	125840.5	125571.6	126916.1	126056.5	125774.4	126647.2	126488.5
7.5°	111267.0	111593.2	111408.1	111650.5	111787.2	113321.3	113806.2	113427.0	113440.3	113660.7
10°	97072.7	96592.2	95908.9	96363.0	97323.9	97994.0	97725.1	98280.5	98157.1	98681.7
12.5°	79607.4	79986.5	79603.0	79197.5	80877.0	80691.9	81159.1	81463.3	80700.7	82397.8
15°	59964.6	60162.9	60630.2	60599.3	61890.9	62151.0	62089.3	62411.1	61816.0	62098.1
17.5°	38523.1	39193.2	40449.5	42574.3	44963.5	45241.2	45170.7	44906.2	44619.7	44302.3
20°	25876.1	25805.5	26259.6	26881.1	31827.1	33136.3	33096.7	32267.9	31068.9	30839.7
22.5°	18126.5	18258.7	18197.0	18814.1	19836.8	23447.1	23001.9	22160.0	21767.6	21512.0
25°	11924.1	11875.7	12184.2	12369.4	13246.6	13687.4	15247.9	14934.9	14331.0	14397.1
27.5°	7269.1	7330.8	7445.4	7604.1	8225.7	8084.6	8975.1	9094.1	8900.1	8692.9
30°	4461.1	4505.2	4597.7	4712.4	4928.4	4774.1	5020.9	5448.5	5378.0	5232.5
32.5°	3028.4	3032.8	3099.0	3143.0	3116.6	2971.1	3050.5	3456.0	3464.8	3451.6
35°	2177.6	2177.6	2239.4	2274.6	2199.7	2080.7	2093.9	2345.2	2455.4	2477.4
37.5°	1503.2	1507.6	1613.4	1719.2	1635.4	1604.6	1551.7	1719.2	1895.5	1922.0
40°	1141.7	1137.3	1190.2	1269.6	1278.4	1221.1	1238.7	1344.5	1525.2	1547.3
42.5°	925.7	930.1	956.6	947.8	952.2	1027.1	1053.6	1102.0	1269.6	1309.2
45°	780.2	784.7	797.9	753.8	736.2	850.8	886.0	912.5	1053.6	1102.0
47.5°	643.6	652.4	665.6	617.1	608.3	683.3	745.0	771.4	894.9	947.8
50°	462.9	471.7	520.2	493.7	520.2	537.8	621.6	661.2	745.0	815.5
52.5°	335.0	343.8	357.1	361.5	427.6	436.4	498.1	559.8	599.5	678.9
55°	264.5	273.3	264.5	255.7	313.0	361.5	383.5	449.6	480.5	573.1
57.5°	149.9	158.7	171.9	198.4	207.2	277.7	299.8	357.1	383.5	471.7
60°	26.4	30.9	48.5	119.0	145.5	176.3	224.8	273.3	308.6	370.3
62.5°	4.4	4.4	8.8	26.4	83.8	123.4	163.1	194.0	224.8	282.1
65°	0.0	0.0	4.4	8.8	22.0	70.5	88.2	114.6	154.3	202.8
67.5°	0.0	0.0	4.4	8.8	13.2	26.4	39.7	70.5	88.2	136.7
70°	0.0	0.0	4.4	8.8	13.2	17.6	22.0	30.9	52.9	83.8
72.5°	0.0	0.0	4.4	8.8	13.2	17.6	22.0	26.4	26.4	52.9
75°	0.0	0.0	4.4	8.8	13.2	22.0	26.4	26.4	22.0	22.0
77.5°	0.0	0.0	4.4	8.8	17.6	26.4	30.9	26.4	17.6	17.6
80°	0.0	0.0	8.8	13.2	22.0	30.9	39.7	30.9	17.6	8.8
82.5°	0.0	0.0	8.8	17.6	22.0	35.3	48.5	39.7	17.6	8.8
85°	0.0	0.0	4.4	13.2	26.4	35.3	48.5	35.3	17.6	4.4
87.5°	0.0	0.0	4.4	4.4	8.8	13.2	26.4	22.0	8.8	4.4
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°
138311.3	0°	138311.3	138311.3	138311.3	138311.3	138311.3	138311.3	138311.3	138311.3	138311.3
135000.7	2.5°	135776.6	136481.9	136627.3	136433.4	136715.5	136208.6	135820.6	134815.6	134211.6
126440.0	5°	127255.5	127149.7	127885.9	128128.3	128097.5	127709.6	127167.4	126559.0	125968.3
113233.1	7.5°	113938.4	114075.1	114745.1	115172.7	114956.7	114471.8	114097.1	113638.6	113241.9
98871.2	10°	99774.9	98836.0	99669.1	99669.1	100246.6	98875.6	99003.5	97848.5	97901.4
82367.0	12.5°	82649.1	82988.5	83125.2	83517.5	82843.0	82115.7	81225.2	81048.9	80497.9
61560.3	15°	62446.4	63416.2	62583.0	64006.9	63319.2	62561.0	62424.3	61057.8	61489.8
44650.5	17.5°	44430.1	45501.3	45836.3	46651.8	46025.9	45576.2	45007.6	44593.2	44562.4
31258.5	20°	31505.3	32580.9	32827.8	33806.4	33735.9	33594.8	33114.3	32589.7	32021.1
21278.3	22.5°	21600.1	22477.3	23297.3	24615.3	24593.3	24178.9	24130.4	23389.8	23403.1
14375.1	25°	14525.0	15164.2	15358.1	16707.0	16856.9	16812.8	16561.6	15873.9	16134.0
8781.1	27.5°	8789.9	9349.8	10006.6	10482.7	10932.3	10861.8	10610.5	10227.0	10059.5
5276.6	30°	5417.7	5668.9	5911.4	6484.4	6753.3	6894.4	6775.4	6418.3	6444.8
3473.7	32.5°	3548.6	3760.2	3936.5	4298.0	4439.0	4699.1	4650.6	4575.7	4487.5
2499.4	35°	2587.6	2741.9	2860.9	3028.4	3209.2	3429.6	3464.8	3434.0	3398.7
1930.8	37.5°	1974.9	2133.6	2270.2	2340.7	2481.8	2653.7	2750.7	2746.3	2719.9
1573.7	40°	1604.6	1723.6	1847.0	1939.6	2036.6	2164.4	2283.4	2296.7	2296.7
1322.5	42.5°	1340.1	1441.5	1564.9	1661.9	1732.4	1851.4	1974.9	1983.7	1974.9
1119.7	45°	1146.1	1234.3	1353.3	1467.9	1525.2	1613.4	1732.4	1758.9	1741.2
961.0	47.5°	996.3	1075.6	1177.0	1300.4	1362.1	1441.5	1551.7	1582.5	1578.1
828.7	50°	855.2	947.8	1049.1	1150.5	1229.9	1304.8	1410.6	1445.9	1432.7
705.3	52.5°	753.8	837.6	925.7	1035.9	1128.5	1194.6	1278.4	1340.1	1322.5
595.1	55°	630.4	731.8	824.3	916.9	1031.5	1102.0	1181.4	1256.3	1238.7
502.5	57.5°	546.6	630.4	736.2	819.9	934.5	1018.3	1097.6	1177.0	1172.6
410.0	60°	458.5	546.6	648.0	736.2	842.0	934.5	1013.9	1102.0	1110.9
308.6	62.5°	361.5	467.3	555.4	656.8	762.6	864.0	934.5	1022.7	1035.9
233.6	65°	273.3	383.5	480.5	577.5	683.3	793.5	855.2	930.1	943.4
171.9	67.5°	202.8	295.3	410.0	498.1	608.3	714.1	771.4	833.1	855.2
105.8	70°	154.3	224.8	343.8	427.6	542.2	626.0	687.7	740.6	758.2
70.5	72.5°	97.0	176.3	277.7	365.9	467.3	542.2	586.3	617.1	643.6
39.7	75°	66.1	136.7	224.8	313.0	387.9	445.2	484.9	511.3	533.4
17.6	77.5°	39.7	105.8	185.1	260.1	308.6	352.7	392.3	410.0	423.2
13.2	80°	22.0	79.3	154.3	211.6	242.5	273.3	304.2	326.2	335.0
8.8	82.5°	13.2	61.7	123.4	163.1	176.3	207.2	238.0	251.3	251.3
4.4	85°	8.8	44.1	83.8	119.0	127.8	149.9	158.7	167.5	176.3
4.4	87.5°	8.8	26.4	52.9	66.1	70.5	79.3	83.8	92.6	101.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
138311.3
133766.4
125307.1
111897.4
97385.7
79995.4
61057.8
43742.4
31774.2
23147.4
15724.0
9914.0
6330.2
4456.7
3385.5
2706.6
2270.2
1966.1
1741.2
1569.3
1423.8
1318.0
1247.5
1177.0
1115.3
1044.7
956.6
864.0
767.0
639.2
529.0
418.8
326.2
246.9
171.9
97.0
0.0

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