

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: P637081

Luminaire Tested: **IFLD-L-SA8A-730-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637081
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-730-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31021.6 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

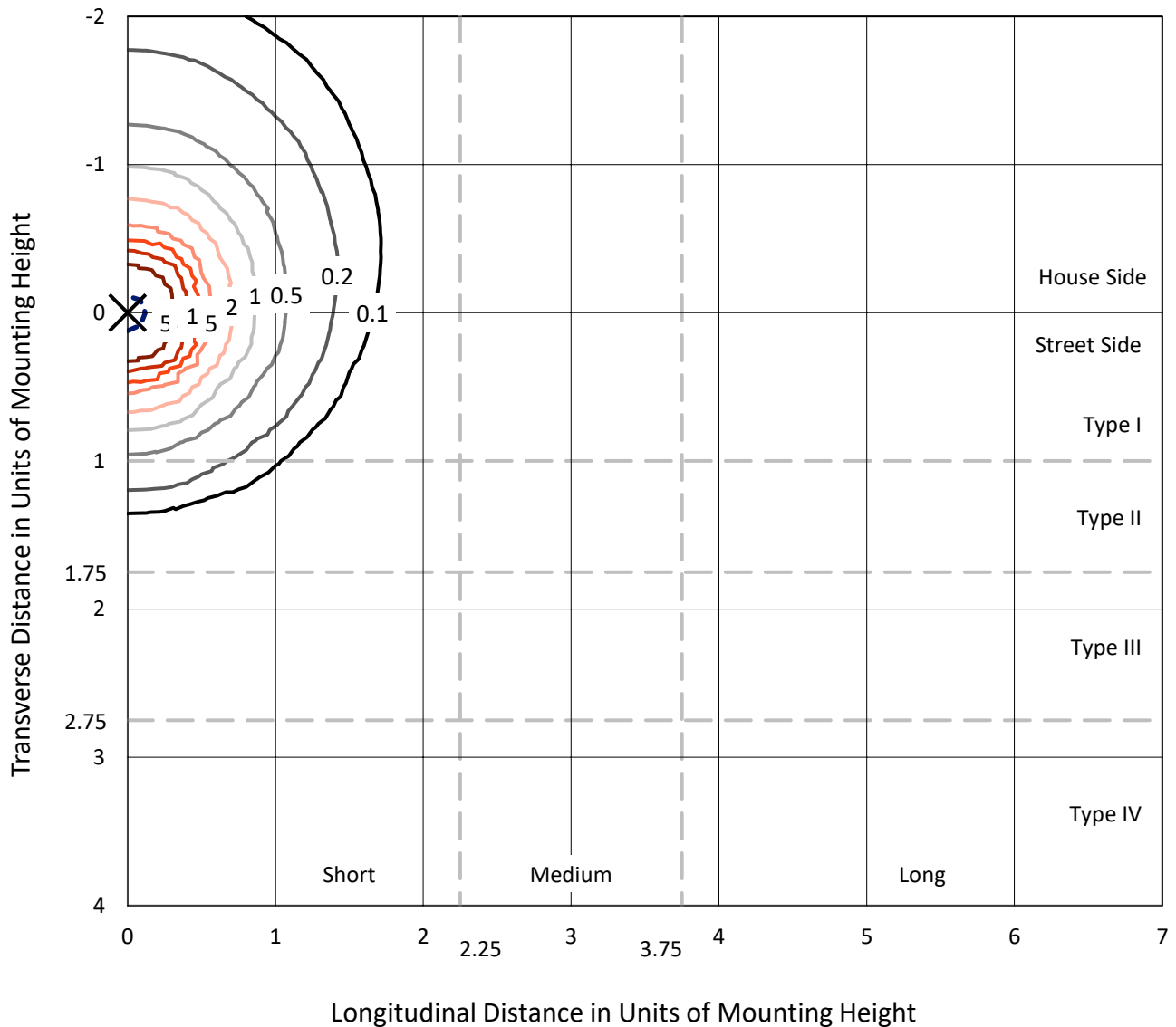
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

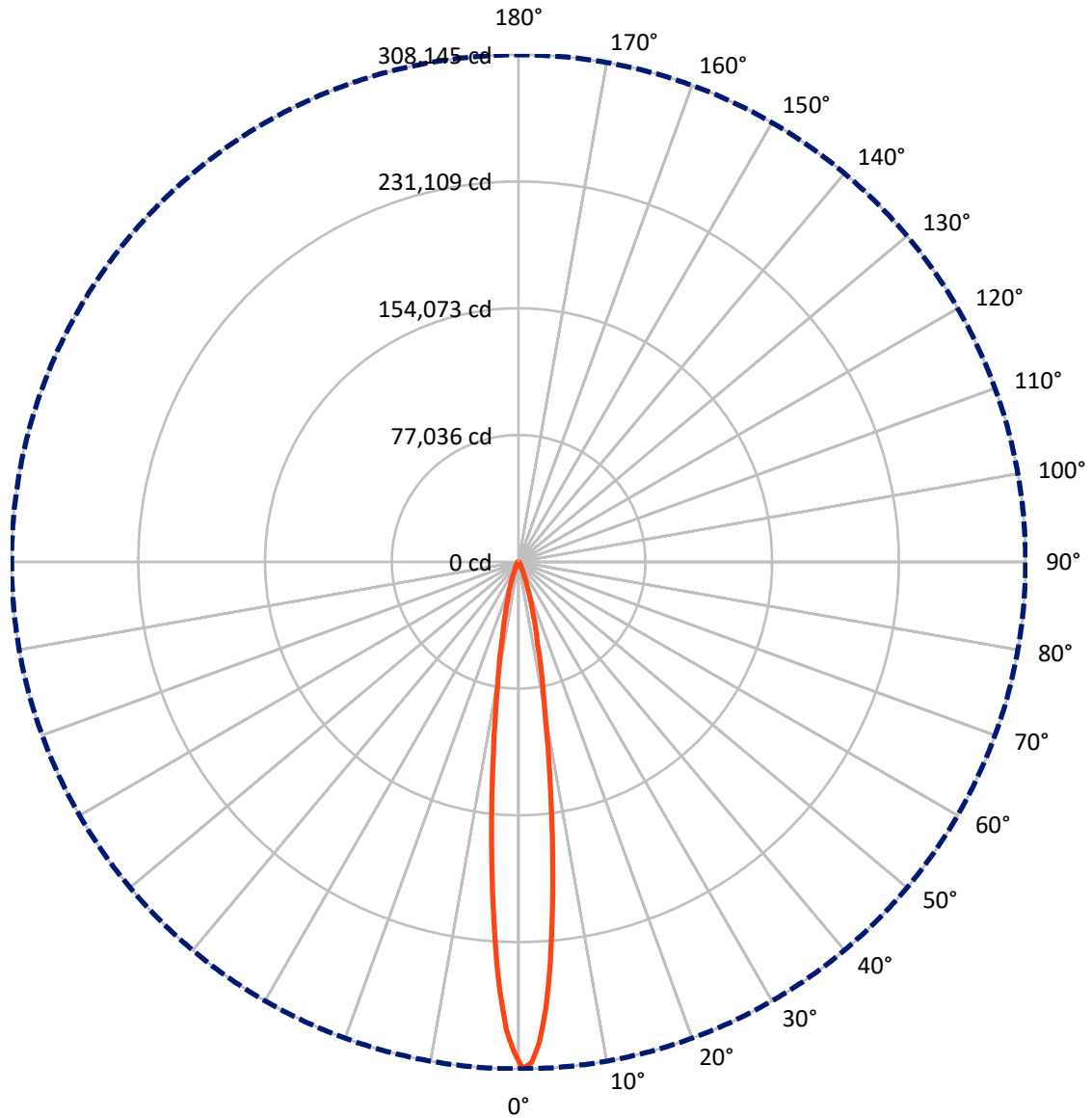
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 770.4 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	15888.7	0.0	15888.7
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	15132.9	0.0	15132.9
	% Fixture	48.8	0.0	48.8
Total	Lumens	31021.6	0.0	31021.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15660.6	50.5
10°-20°	10025.9	32.3
20°-30°	3013.6	9.7
30°-40°	981.2	3.2
40°-50°	570.9	1.8
50°-60°	379.2	1.2
60°-70°	228.3	0.7
70°-80°	117.3	0.4
80°-90°	44.6	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°	31021.6	100.0
0°-180°	31021.6	100.0

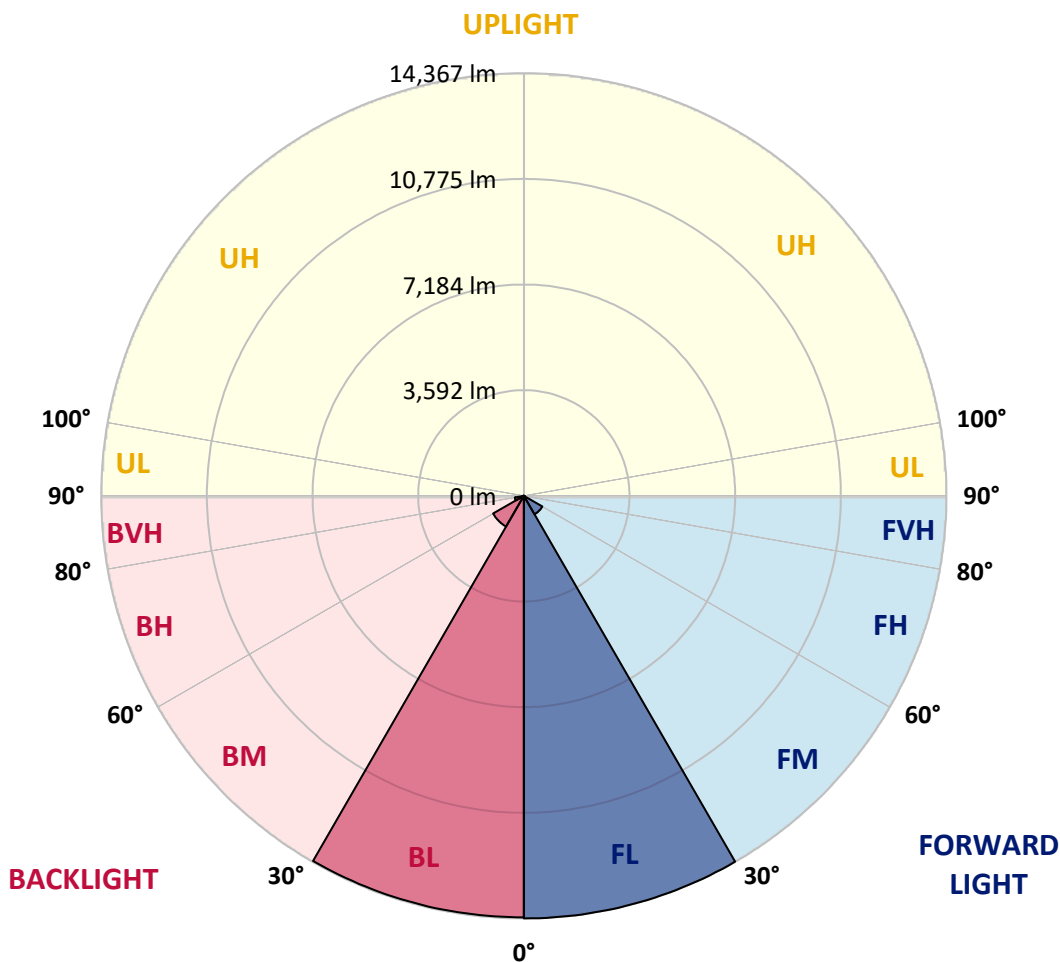


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	14367.1	46.3			
FM (30°-60°)	725.0	2.3			
FH (60°-80°)	34.1	0.1			G0/660
FVH (80°-90°)	6.7	0.0			G0/10
BL (0°-30°)	14333.0	46.2	B5		
BM (30°-60°)	1206.4	3.9	B2/2500		
BH (60°-80°)	311.5	1.0	B1/500		G0/660
BVH (80°-90°)	37.8	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 V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	308145.0	308145.0	308145.0	308145.0	308145.0	308145.0	308145.0	308145.0	308145.0	308145.0
1°	304455.4	303526.3	301127.4	302833.6	304333.8	303897.9	303867.5	303705.4	303479.0	305256.2
2°	292285.2	291683.8	288136.1	289599.1	291731.1	290176.9	291149.9	290295.1	290312.0	292433.9
3°	271769.4	272097.2	266437.8	269096.9	272060.0	268292.7	269461.8	271657.9	269357.0	268664.4
4°	245104.4	242259.5	239167.9	241870.9	242637.9	240445.1	242600.7	245290.2	242093.9	242235.8
5°	214661.9	212560.3	208901.1	210570.2	208668.0	209360.6	212590.7	213698.9	211469.0	208661.2
6°	183361.2	181867.8	177292.9	179698.6	179022.9	178630.9	182709.1	179330.3	180546.7	178847.2
7°	152520.0	149729.1	147482.3	149786.6	149935.2	148756.1	154050.6	153435.6	151222.5	150709.0
8°	126365.1	123581.0	121678.8	123395.2	124516.9	122665.4	125155.5	126790.8	125060.9	125216.3
9°	101919.9	101430.0	98784.4	101027.9	102247.6	100264.3	103021.3	103612.6	101994.2	102781.5
10°	83684.8	83113.8	81002.1	81910.9	83931.4	81566.3	84211.9	84404.5	83113.8	83482.1
12.5°	51715.1	51485.3	51427.9	51559.7	51532.6	51951.6	52627.3	51857.0	51755.6	50481.8
15°	33425.9	33767.2	33415.8	34091.5	34189.5	34584.8	34172.6	33550.9	32365.0	31777.1
17.5°	20860.4	21296.2	21897.7	22887.6	23877.6	23992.5	23445.1	22715.3	22140.9	21512.5
20°	12001.3	12214.2	12122.9	13308.9	15870.0	16566.0	15859.8	15092.9	14400.2	13765.0
22.5°	7456.9	7379.2	7521.1	7919.8	8754.3	10906.6	10328.8	9561.9	9058.4	8534.7
25°	4571.4	4655.9	4601.9	4821.5	5196.5	6108.8	6240.5	5909.4	5652.6	5382.3
27.5°	2942.9	2942.9	2966.5	3088.2	3345.0	3314.5	4017.3	3760.5	3622.0	3490.2
30°	2044.1	2050.9	2050.9	2121.9	2179.3	2077.9	2260.4	2591.5	2527.3	2425.9
32.5°	1517.1	1537.3	1554.2	1591.4	1544.1	1436.0	1479.9	1865.1	1827.9	1790.7
35°	1155.5	1172.4	1213.0	1233.2	1165.7	1098.1	1057.5	1371.8	1388.7	1378.5
37.5°	841.3	851.4	925.8	1003.5	925.8	865.0	841.3	1054.2	1135.3	1125.1
40°	645.3	648.7	662.2	750.1	750.1	702.8	709.5	787.2	929.2	929.2
42.5°	554.1	554.1	567.6	554.1	557.5	608.2	625.1	635.2	787.2	787.2
45°	479.8	479.8	486.5	452.8	419.0	523.7	537.2	540.6	662.2	679.1
47.5°	402.1	402.1	415.6	371.7	354.8	415.6	452.8	462.9	571.0	584.5
50°	297.3	300.7	341.3	304.1	314.2	321.0	391.9	398.7	483.2	513.6
52.5°	199.3	199.3	206.1	236.5	273.7	263.5	317.6	341.3	385.2	425.7
55°	162.2	162.2	158.8	152.0	202.7	219.6	233.1	283.8	314.2	364.9
57.5°	111.5	118.3	108.1	125.0	131.8	165.6	175.7	223.0	239.9	307.5
60°	13.5	16.9	23.7	91.2	87.8	111.5	131.8	175.7	196.0	236.5
62.5°	3.4	3.4	6.8	16.9	60.8	74.3	104.7	121.6	141.9	182.5
65°	0.0	0.0	3.4	6.8	13.5	40.5	54.1	71.0	101.4	128.4
67.5°	0.0	0.0	3.4	6.8	6.8	16.9	27.0	43.9	54.1	94.6
70°	0.0	0.0	3.4	6.8	6.8	13.5	16.9	20.3	37.2	50.7
72.5°	0.0	0.0	3.4	6.8	10.1	13.5	16.9	16.9	16.9	33.8
75°	0.0	0.0	3.4	6.8	10.1	13.5	16.9	16.9	13.5	13.5
77.5°	0.0	0.0	3.4	6.8	13.5	16.9	20.3	16.9	10.1	10.1
80°	0.0	0.0	3.4	10.1	16.9	23.7	27.0	20.3	10.1	6.8
82.5°	0.0	0.0	6.8	13.5	20.3	27.0	37.2	30.4	13.5	6.8
85°	0.0	0.0	3.4	10.1	20.3	27.0	54.1	37.2	16.9	3.4
87.5°	0.0	0.0	0.0	3.4	3.4	6.8	20.3	13.5	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°
308145.0	0°	308145.0	308145.0	308145.0	308145.0	308145.0	308145.0	308145.0	308145.0
303205.3	1°	305323.8	305536.6	304840.6	305918.4	305540.0	303323.6	302590.4	300471.9
291187.1	2°	290295.1	291379.7	291433.7	292629.8	292612.9	290028.2	289227.4	290703.9
270069.9	3°	269252.3	270515.9	269377.3	271502.5	270863.9	267728.5	266914.2	268590.0
243357.6	4°	242631.1	242391.2	241999.3	240789.7	242279.7	240141.0	238529.3	240803.2
212384.6	5°	211958.9	211425.0	210661.4	210303.3	211411.5	210043.1	206728.6	210049.9
181921.8	6°	182144.8	179847.3	179735.8	179536.4	179647.9	175816.4	176046.2	178519.4
148941.9	7°	150516.4	150938.7	150077.1	151459.1	150404.9	147810.0	146809.9	149414.9
125898.8	8°	125020.4	124486.5	123827.7	125892.1	124064.2	122361.3	121195.6	123253.3
102909.8	9°	102717.3	101794.9	101125.9	101021.1	101304.9	98108.7	98757.4	100315.0
83684.8	10°	83715.2	82201.5	82569.8	82667.8	82356.9	80262.1	80282.4	80819.6
51326.5	12.5°	51144.1	50400.8	50586.6	50687.9	51319.8	50583.2	49542.6	48792.5
32361.6	15°	32145.4	31611.5	32702.9	33436.1	33287.4	32631.9	32142.0	31462.9
21512.5	17.5°	21313.1	22012.5	22015.9	22684.9	22752.5	22097.0	21718.6	21107.0
13991.4	20°	13940.7	14231.3	14836.1	15309.1	15582.8	15082.7	14630.0	14211.0
8723.9	22.5°	8723.9	9230.7	9609.2	10224.1	10474.1	10109.2	9788.2	9447.0
5446.5	25°	5355.3	5716.8	6031.1	6564.9	6906.2	6730.5	6436.5	6196.6
3517.3	27.5°	3571.3	3723.4	3878.8	4247.1	4601.9	4503.9	4385.6	4240.3
2480.0	30°	2517.2	2530.7	2696.2	2902.3	3138.9	3199.7	3145.6	3071.3
1821.1	32.5°	1854.9	1909.0	1986.7	2115.1	2273.9	2419.2	2392.2	2358.4
1392.0	35°	1432.6	1513.7	1577.9	1675.9	1760.3	1898.9	1922.5	1912.4
1145.4	37.5°	1169.0	1240.0	1304.2	1361.6	1432.6	1527.2	1601.5	1604.9
946.0	40°	969.7	1033.9	1118.4	1162.3	1213.0	1283.9	1375.1	1381.9
800.8	42.5°	817.7	878.5	962.9	1017.0	1054.2	1121.7	1213.0	1226.5
685.9	45°	702.8	739.9	827.8	892.0	929.2	973.1	1071.1	1084.6
591.3	47.5°	611.6	648.7	702.8	794.0	827.8	868.3	946.0	969.7
523.7	50°	537.2	574.4	621.7	702.8	753.5	787.2	851.4	885.2
456.1	52.5°	476.4	513.6	564.3	628.4	685.9	716.3	777.1	821.0
371.7	55°	398.7	462.9	500.1	557.5	635.2	662.2	709.5	767.0
324.4	57.5°	348.0	402.1	456.1	503.4	581.1	614.9	662.2	716.3
256.8	60°	294.0	344.6	408.8	449.4	523.7	567.6	618.3	669.0
196.0	62.5°	233.1	300.7	344.6	402.1	473.0	530.5	571.0	621.7
152.0	65°	172.3	246.6	297.3	358.1	425.7	486.5	520.3	574.4
108.1	67.5°	125.0	192.6	253.4	310.8	375.0	435.9	469.6	516.9
67.6	70°	98.0	141.9	209.5	260.2	327.7	378.4	415.6	446.0
43.9	72.5°	57.4	108.1	168.9	226.4	287.2	321.0	348.0	375.0
20.3	75°	37.2	84.5	138.5	189.2	233.1	263.5	287.2	310.8
10.1	77.5°	23.7	60.8	111.5	158.8	179.1	216.2	236.5	250.0
6.8	80°	13.5	47.3	98.0	128.4	145.3	168.9	189.2	206.1
6.8	82.5°	10.1	40.5	81.1	108.1	108.1	135.1	145.3	145.3
3.4	85°	6.8	33.8	64.2	101.4	81.1	101.4	94.6	94.6
3.4	87.5°	6.8	23.7	30.4	43.9	37.2	43.9	43.9	50.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
308145.0
298282.5
284449.9
261146.7
232572.6
201298.9
171349.7
142329.7
117377.6
95449.6
77163.8
48336.3
31114.9
20955.0
14065.7
9264.5
6058.1
4155.9
3020.6
2331.3
1878.6
1581.3
1371.8
1216.3
1081.2
973.1
888.6
821.0
770.4
719.7
682.5
645.3
584.5
520.3
456.1
381.8
310.8
243.3
185.8
135.1
91.2
50.7
0.0

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