

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: P637048

Luminaire Tested: **IFLD-L-SA7B-727-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637048
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-727-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29618 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

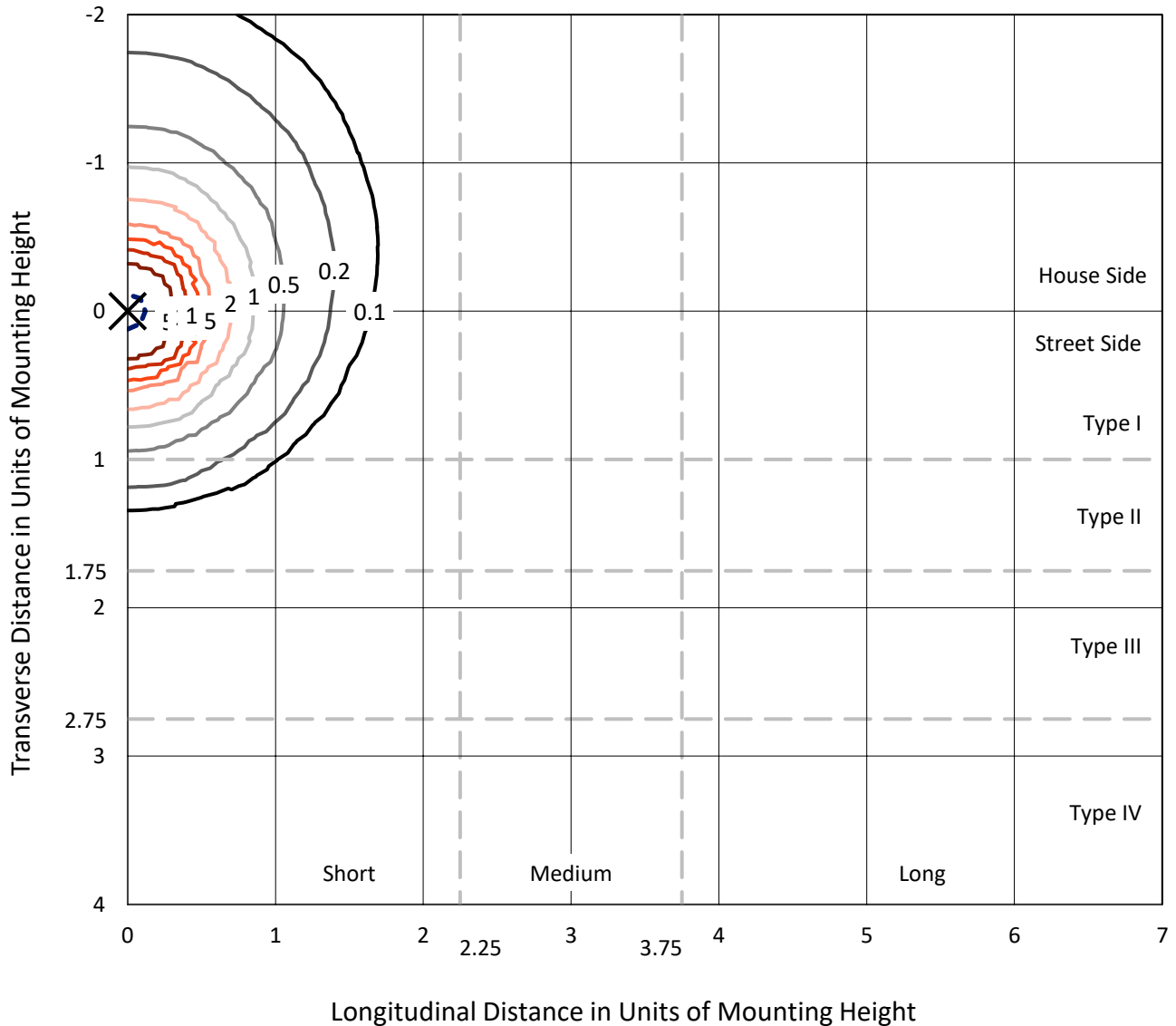
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

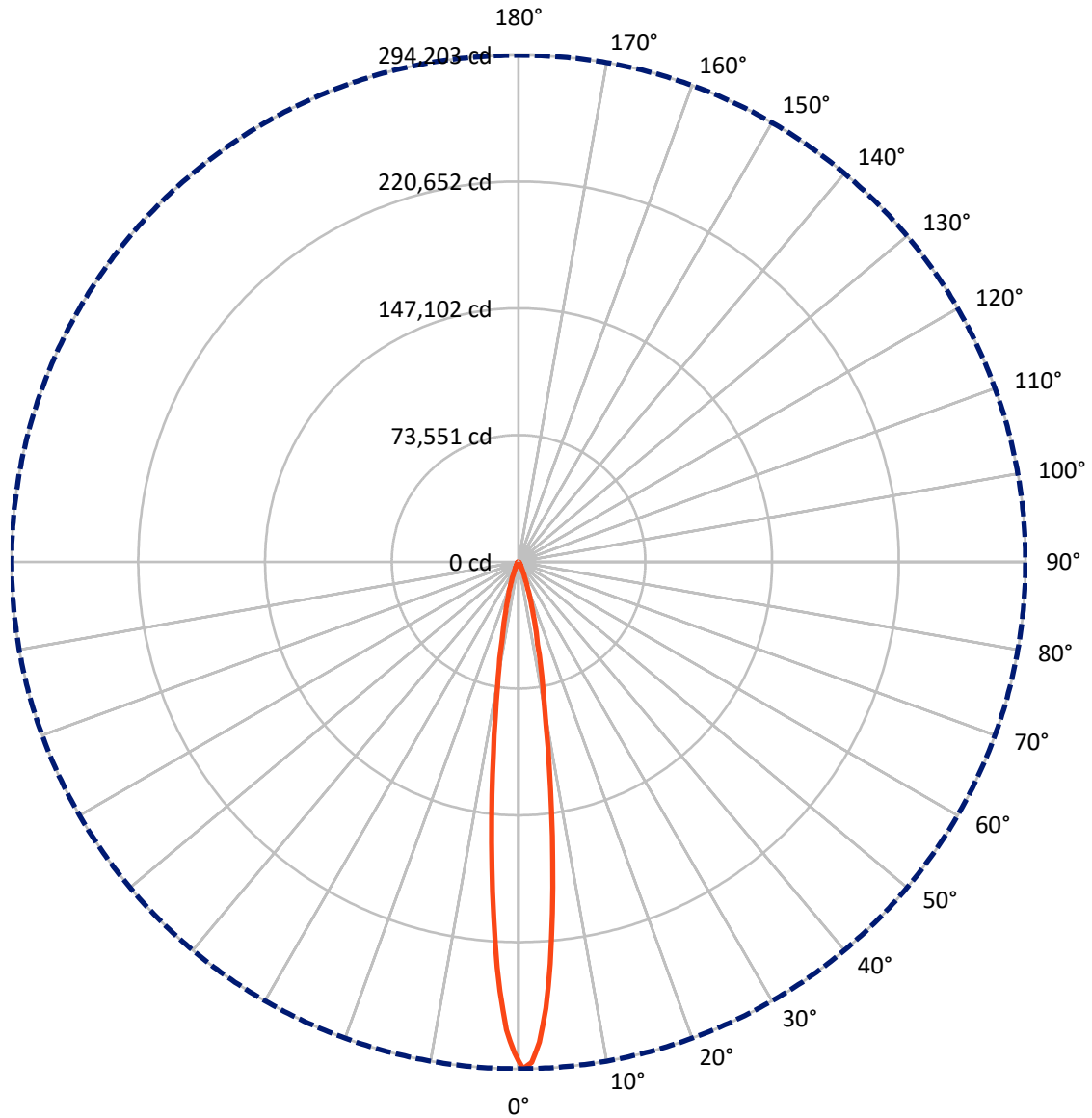
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 735.5 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	15169.8	0.0	15169.8
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	14448.2	0.0	14448.2
	% Fixture	48.8	0.0	48.8
Total	Lumens	29618.0	0.0	29618.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14952.1	50.5
10°-20°	9572.3	32.3
20°-30°	2877.2	9.7
30°-40°	936.8	3.2
40°-50°	545.1	1.8
50°-60°	362.1	1.2
60°-70°	217.9	0.7
70°-80°	112.0	0.4
80°-90°	42.6	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°	29618.0	100.0
0°-180°	29618.0	100.0

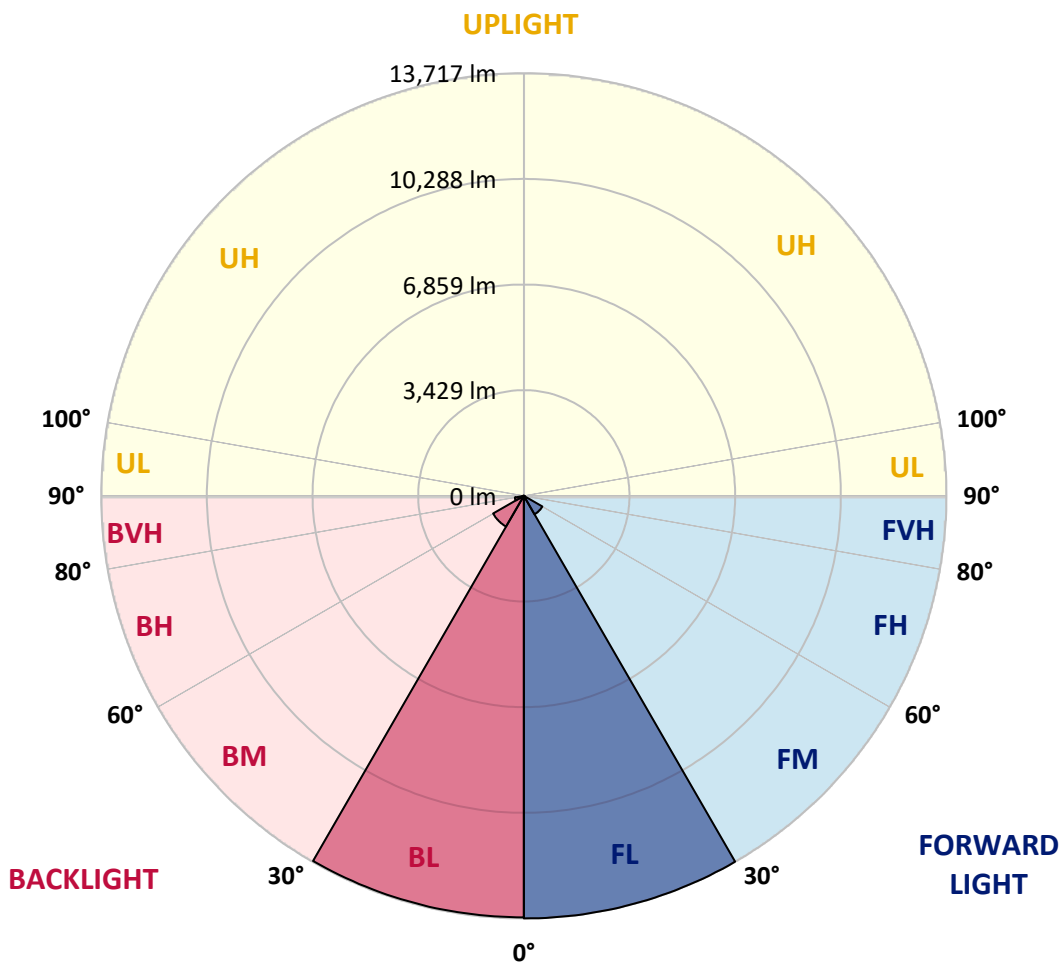


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	13717.0	46.3			
FM (30°-60°)	692.2	2.3			
FH (60°-80°)	32.6	0.1			G0/660
FVH (80°-90°)	6.4	0.0			G0/10
BL (0°-30°)	13684.5	46.2	B5		
BM (30°-60°)	1151.8	3.9	B2/2500		
BH (60°-80°)	297.4	1.0	B1/500		G0/660
BVH (80°-90°)	36.1	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°	294203.1	294203.1	294203.1	294203.1	294203.1	294203.1	294203.1	294203.1	294203.1	294203.1
1°	290680.5	289793.4	287503.0	289132.0	290564.3	290148.2	290119.2	289964.3	289748.2	291445.0
2°	279060.9	278486.7	275099.5	276496.3	278531.8	277047.9	277977.0	277160.8	277177.0	279202.8
3°	259473.3	259786.3	254382.9	256921.7	259750.8	256153.9	257270.1	259366.9	257170.1	256508.8
4°	234014.7	231298.5	228346.9	230927.6	231659.8	229566.2	231624.4	234192.2	231140.5	231276.0
5°	204949.6	202943.1	199449.5	201043.0	199226.9	199888.2	202972.1	204030.2	201901.1	199220.4
6°	175065.1	173639.2	169271.4	171568.2	170923.0	170548.8	174442.5	171216.6	172377.9	170755.3
7°	145619.3	142954.7	140809.5	143009.5	143151.5	142025.6	147080.6	146493.5	144380.5	143890.2
8°	120647.8	117989.6	116173.5	117812.2	118883.2	117115.4	119492.9	121054.2	119402.6	119551.0
9°	97308.6	96840.8	94314.9	96456.9	97621.5	95727.9	98360.2	98924.7	97379.5	98131.2
10°	79898.5	79353.3	77337.2	78204.9	80134.0	77875.9	80401.7	80585.6	79353.3	79704.9
12.5°	49375.3	49155.9	49101.1	49226.9	49201.1	49601.1	50246.2	49510.7	49414.0	48197.8
15°	31913.6	32239.4	31903.9	32549.1	32642.6	33020.1	32626.5	32032.9	30900.7	30339.4
17.5°	19916.6	20332.7	20906.9	21852.1	22797.3	22906.9	22384.4	21687.6	21139.2	20539.2
20°	11458.3	11661.5	11574.4	12706.7	15151.9	15816.5	15142.3	14410.0	13748.7	13142.2
22.5°	7119.5	7045.3	7180.8	7561.5	8358.2	10413.1	9861.5	9129.2	8648.6	8148.6
25°	4364.6	4445.3	4393.6	4603.3	4961.4	5832.4	5958.2	5642.1	5396.9	5138.8
27.5°	2809.7	2809.7	2832.3	2948.5	3193.6	3164.6	3835.6	3590.4	3458.1	3332.3
30°	1951.7	1958.1	1958.1	2025.9	2080.7	1983.9	2158.1	2474.2	2413.0	2316.2
32.5°	1448.4	1467.8	1483.9	1519.4	1474.2	1371.0	1412.9	1780.7	1745.2	1709.7
35°	1103.2	1119.4	1158.1	1177.4	1112.9	1048.4	1009.7	1309.7	1325.8	1316.2
37.5°	803.2	812.9	883.9	958.1	883.9	825.8	803.2	1006.5	1083.9	1074.2
40°	616.1	619.4	632.3	716.1	716.1	671.0	677.4	751.6	887.1	887.1
42.5°	529.0	529.0	541.9	529.0	532.3	580.7	596.8	606.5	751.6	751.6
45°	458.1	458.1	464.5	432.3	400.0	500.0	512.9	516.1	632.3	648.4
47.5°	383.9	383.9	396.8	354.8	338.7	396.8	432.3	441.9	545.2	558.1
50°	283.9	287.1	325.8	290.3	300.0	306.5	374.2	380.7	461.3	490.3
52.5°	190.3	190.3	196.8	225.8	261.3	251.6	303.2	325.8	367.7	406.5
55°	154.8	154.8	151.6	145.2	193.6	209.7	222.6	271.0	300.0	348.4
57.5°	106.5	112.9	103.2	119.4	125.8	158.1	167.7	212.9	229.0	293.6
60°	12.9	16.1	22.6	87.1	83.9	106.5	125.8	167.7	187.1	225.8
62.5°	3.2	3.2	6.5	16.1	58.1	71.0	100.0	116.1	135.5	174.2
65°	0.0	0.0	3.2	6.5	12.9	38.7	51.6	67.7	96.8	122.6
67.5°	0.0	0.0	3.2	6.5	6.5	16.1	25.8	41.9	51.6	90.3
70°	0.0	0.0	3.2	6.5	6.5	12.9	16.1	19.4	35.5	48.4
72.5°	0.0	0.0	3.2	6.5	9.7	12.9	16.1	16.1	16.1	32.3
75°	0.0	0.0	3.2	6.5	9.7	12.9	16.1	16.1	12.9	12.9
77.5°	0.0	0.0	3.2	6.5	12.9	16.1	19.4	16.1	9.7	9.7
80°	0.0	0.0	3.2	9.7	16.1	22.6	25.8	19.4	9.7	6.5
82.5°	0.0	0.0	6.5	12.9	19.4	25.8	35.5	29.0	12.9	6.5
85°	0.0	0.0	3.2	9.7	19.4	25.8	51.6	35.5	16.1	3.2
87.5°	0.0	0.0	0.0	3.2	3.2	6.5	19.4	12.9	6.5	3.2
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°
294203.1	0°	294203.1	294203.1	294203.1	294203.1	294203.1	294203.1	294203.1	294203.1
289486.9	1°	291509.5	291712.7	291048.2	292077.3	291716.0	289599.8	288899.8	288070.7
278012.5	2°	277160.8	278196.3	278247.9	279389.9	279373.8	276906.0	276141.4	277551.2
257850.7	3°	257070.1	258276.5	257189.4	259218.5	258608.8	255615.2	254837.8	256437.8
232347.0	4°	231653.4	231424.4	231050.1	229895.3	231317.9	229275.9	227737.2	229908.2
202775.3	5°	202368.9	201859.2	201130.1	200788.2	201846.3	200539.8	197375.2	200546.3
173690.8	6°	173903.8	171710.2	171603.7	171413.4	171519.8	167861.7	168081.0	170442.4
142203.1	7°	143706.3	144109.6	143287.0	144606.3	143599.9	141122.4	140167.5	142654.7
120202.6	8°	119363.9	118854.2	118225.1	120196.1	118450.9	116825.1	115712.2	117676.7
98253.7	9°	98069.9	97189.2	96550.5	96450.5	96721.4	93669.8	94289.1	95776.3
79898.5	10°	79927.5	78482.3	78834.0	78927.5	78630.7	76630.7	76650.0	77163.0
49004.3	12.5°	48830.1	48120.4	48297.8	48394.6	48997.8	48294.6	47301.0	46584.9
30897.4	15°	30691.0	30181.3	31223.3	31923.3	31781.3	31155.5	30687.8	30039.4
20539.2	17.5°	20348.8	21016.6	21019.8	21658.5	21723.0	21097.2	20735.9	20152.0
13358.4	20°	13310.0	13587.4	14164.8	14616.4	14877.7	14400.3	13968.0	13568.0
8329.2	22.5°	8329.2	8813.1	9174.4	9761.5	10000.2	9651.8	9345.4	9019.5
5200.1	25°	5113.0	5458.2	5758.2	6267.9	6593.7	6425.9	6145.3	5916.3
3358.1	27.5°	3409.8	3554.9	3703.3	4054.9	4393.6	4300.1	4187.2	4048.5
2367.8	30°	2403.3	2416.2	2574.2	2771.0	2996.8	3054.9	3003.3	2932.3
1738.7	32.5°	1771.0	1822.6	1896.8	2019.4	2171.0	2309.7	2283.9	2251.7
1329.1	35°	1367.8	1445.2	1506.5	1600.0	1680.7	1812.9	1835.5	1825.8
1093.6	37.5°	1116.2	1183.9	1245.2	1300.0	1367.8	1458.1	1529.1	1532.3
903.2	40°	925.8	987.1	1067.8	1109.7	1158.1	1225.8	1312.9	1319.4
764.5	42.5°	780.7	838.7	919.4	971.0	1006.5	1071.0	1158.1	1171.0
654.9	45°	671.0	706.5	790.3	851.6	887.1	929.1	1022.6	1035.5
564.5	47.5°	583.9	619.4	671.0	758.1	790.3	829.1	903.2	925.8
500.0	50°	512.9	548.4	593.6	671.0	719.4	751.6	812.9	845.2
435.5	52.5°	454.8	490.3	538.7	600.0	654.9	683.9	742.0	783.9
354.8	55°	380.7	441.9	477.4	532.3	606.5	632.3	677.4	732.3
309.7	57.5°	332.3	383.9	435.5	480.7	554.9	587.1	632.3	683.9
245.2	60°	280.7	329.0	390.3	429.0	500.0	541.9	590.3	638.7
187.1	62.5°	222.6	287.1	329.0	383.9	451.6	506.5	545.2	593.6
145.2	65°	164.5	235.5	283.9	341.9	406.5	464.5	496.8	548.4
103.2	67.5°	119.4	183.9	241.9	296.8	358.1	416.1	448.4	493.6
64.5	70°	93.6	135.5	200.0	248.4	312.9	361.3	396.8	425.8
41.9	72.5°	54.8	103.2	161.3	216.1	274.2	306.5	332.3	358.1
19.4	75°	35.5	80.6	132.3	180.6	222.6	251.6	274.2	296.8
9.7	77.5°	22.6	58.1	106.5	151.6	171.0	206.5	225.8	238.7
6.5	80°	12.9	45.2	93.6	122.6	138.7	161.3	180.6	196.8
6.5	82.5°	9.7	38.7	77.4	103.2	103.2	129.0	138.7	138.7
3.2	85°	6.5	32.3	61.3	96.8	77.4	96.8	90.3	90.3
3.2	87.5°	6.5	22.6	29.0	41.9	35.5	41.9	41.9	48.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
294203.1
284786.8
271580.1
249331.2
222050.0
192191.2
163597.1
135890.0
112066.9
91131.0
73672.6
46149.4
29707.1
20006.9
13429.3
8845.4
5784.0
3967.8
2883.9
2225.9
1793.6
1509.7
1309.7
1161.3
1032.3
929.1
848.4
783.9
735.5
687.1
651.6
616.1
558.1
496.8
435.5
364.5
296.8
232.3
177.4
129.0
87.1
48.4
0.0

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