

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: P637220

Luminaire Tested: **IFLD-M-SA4E-827-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637220
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-827-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (64) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26467.1 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

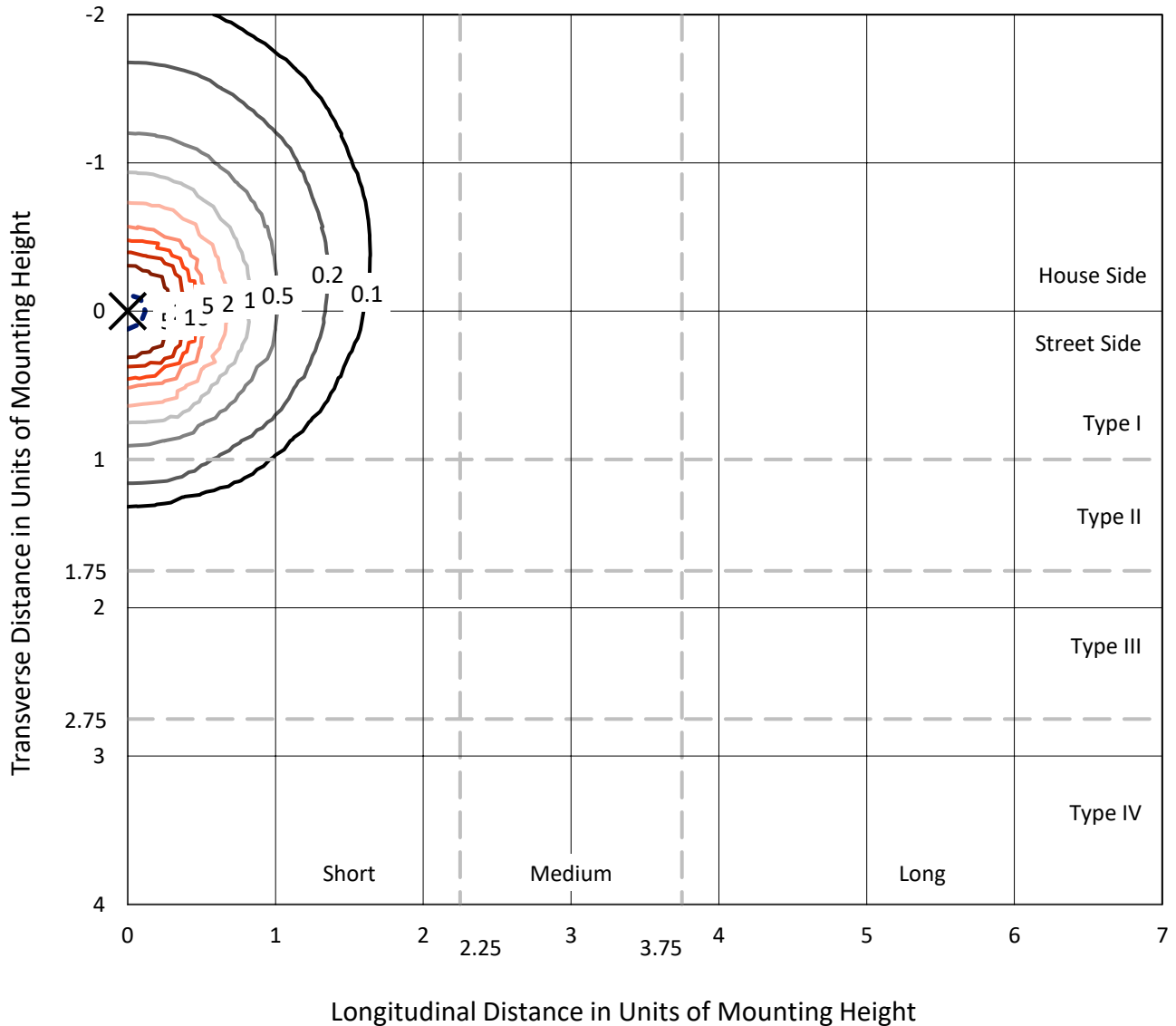
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

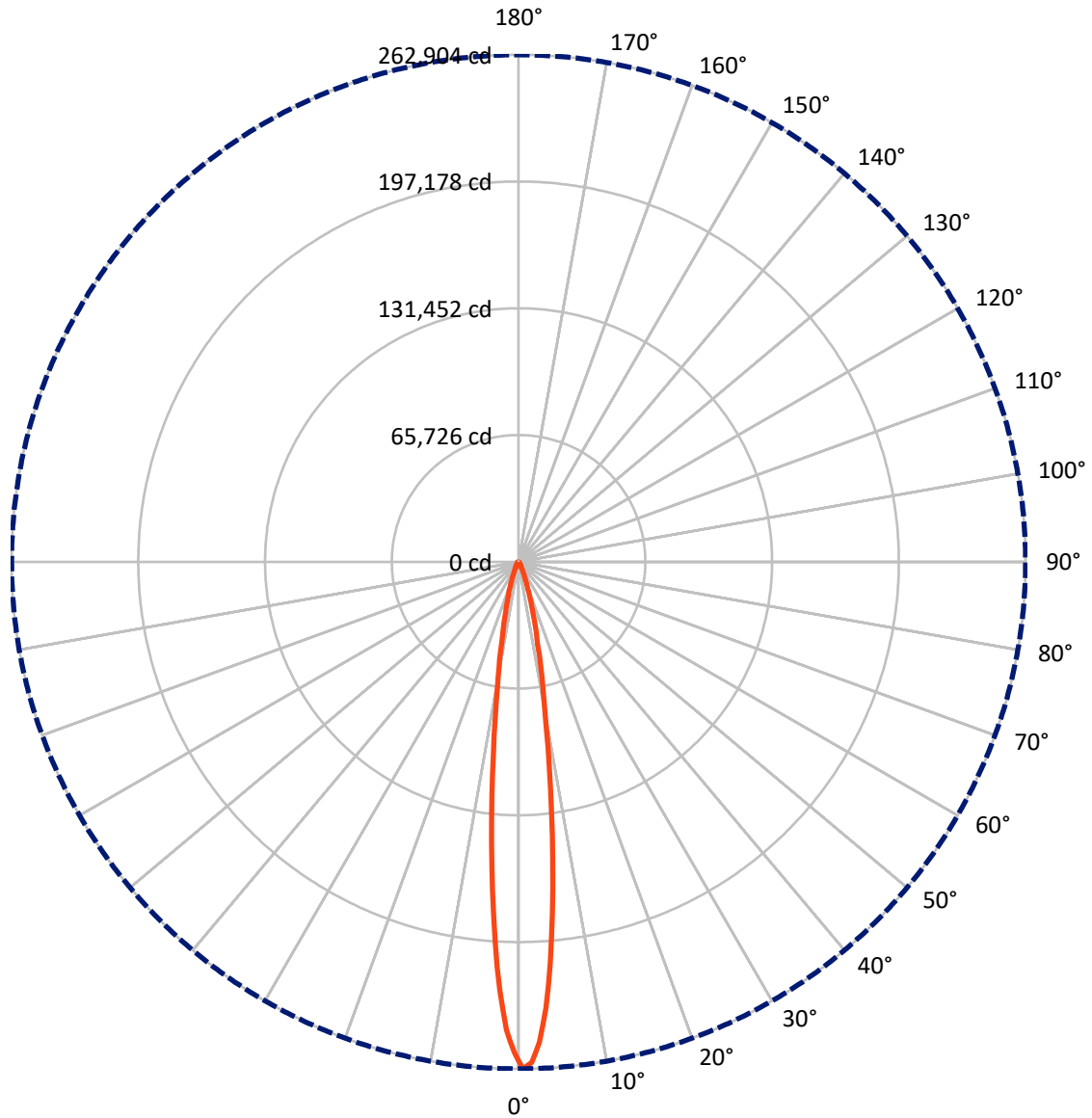
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 657.3 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	13556.0	0.0	13556.0
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	12911.2	0.0	12911.2
	% Fixture	48.8	0.0	48.8
Total	Lumens	26467.1	0.0	26467.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13361.4	50.5
10°-20°	8553.9	32.3
20°-30°	2571.1	9.7
30°-40°	837.2	3.2
40°-50°	487.1	1.8
50°-60°	323.5	1.2
60°-70°	194.8	0.7
70°-80°	100.1	0.4
80°-90°	38.0	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°	26467.1	100.0
0°-180°	26467.1	100.0

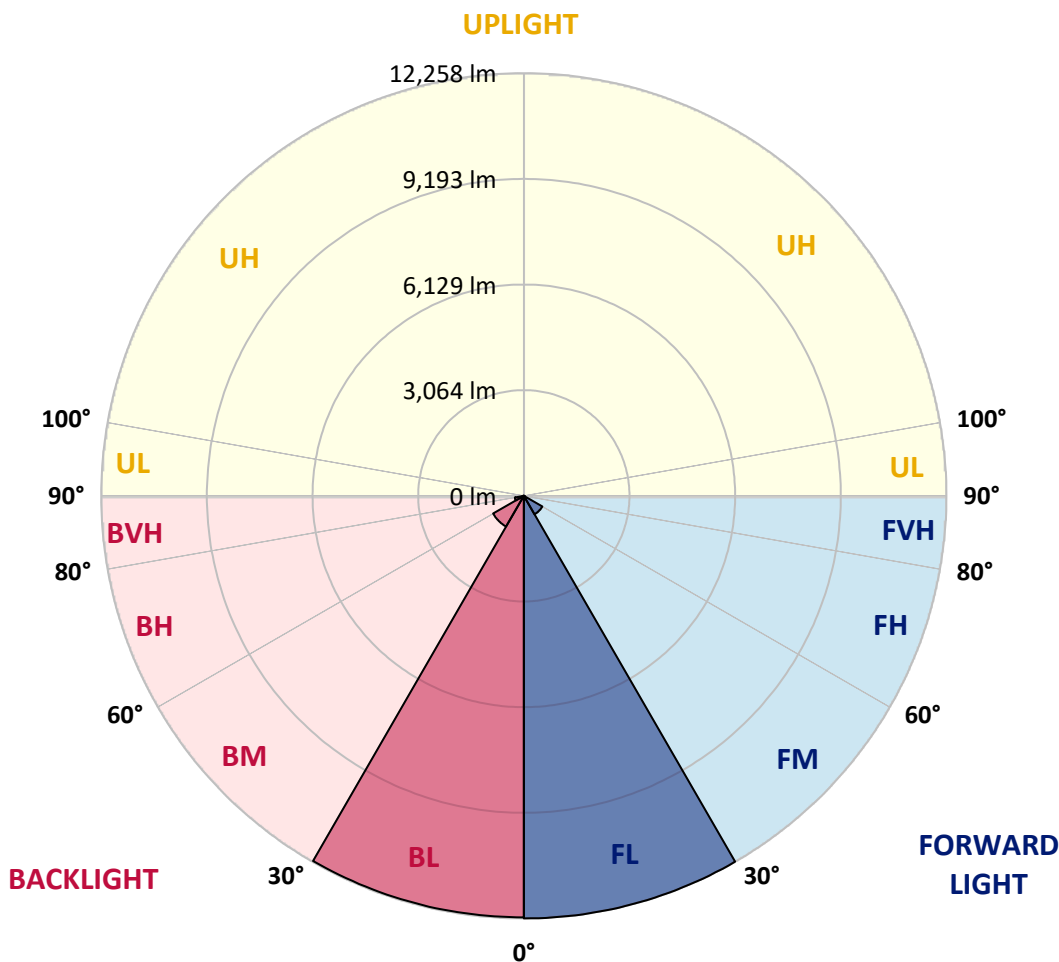


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12257.7	46.3			
FM (30°-60°)	618.6	2.3			
FH (60°-80°)	29.1	0.1			G0/660
FVH (80°-90°)	5.7	0.0			G0/10
BL (0°-30°)	12228.7	46.2	B5		
BM (30°-60°)	1029.2	3.9	B2/2500		
BH (60°-80°)	265.7	1.0	B1/500		G0/660
BVH (80°-90°)	32.3	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°	262904.4	262904.4	262904.4	262904.4	262904.4	262904.4	262904.4	262904.4	262904.4	262904.4
1°	259756.5	258963.8	256917.1	258372.8	259652.7	259280.9	259254.9	259116.6	258923.4	260439.7
2°	249373.1	248859.9	245833.1	247081.3	248900.3	247574.3	248404.5	247675.2	247689.6	249499.9
3°	231869.4	232149.0	227320.5	229589.2	232117.3	228903.1	229900.5	231774.2	229811.1	229220.2
4°	209119.2	206691.9	204054.3	206360.4	207014.8	205143.9	206983.1	209277.7	206550.7	206671.7
5°	183146.1	181353.1	178231.1	179655.2	178032.2	178623.1	181379.0	182324.5	180421.9	178026.4
6°	156440.8	155166.7	151263.5	153316.0	152739.5	152405.1	155884.5	153001.8	154039.5	152589.6
7°	130127.6	127746.5	125829.5	127795.5	127922.4	126916.3	131433.5	130908.8	129020.7	128582.5
8°	107812.7	105437.4	103814.4	105278.8	106235.9	104656.1	106780.7	108175.9	106700.0	106832.6
9°	86956.4	86538.4	84281.3	86195.4	87236.0	85543.9	87896.2	88400.6	87019.8	87691.5
10°	71398.5	70911.3	69109.7	69885.1	71609.0	69591.1	71848.2	72012.5	70911.3	71225.6
12.5°	44122.5	43926.5	43877.5	43989.9	43966.8	44324.3	44900.8	44243.6	44157.1	43070.3
15°	28518.5	28809.6	28509.8	29086.4	29170.0	29507.2	29155.6	28625.1	27613.3	27111.7
17.5°	17797.7	18169.6	18682.7	19527.4	20372.0	20470.0	20003.0	19380.3	18890.3	18354.1
20°	10239.3	10420.9	10343.1	11354.9	13540.0	14133.8	13531.4	12877.0	12286.0	11744.1
22.5°	6362.1	6295.8	6416.9	6757.0	7469.1	9305.3	8812.4	8158.0	7728.5	7281.7
25°	3900.3	3972.4	3926.2	4113.6	4433.6	5211.9	5324.3	5041.8	4822.7	4592.1
27.5°	2510.8	2510.8	2531.0	2634.8	2853.9	2827.9	3427.5	3208.4	3090.2	2977.8
30°	1744.0	1749.8	1749.8	1810.3	1859.3	1772.9	1928.5	2211.0	2156.3	2069.8
32.5°	1294.3	1311.6	1326.0	1357.7	1317.4	1225.1	1262.6	1591.2	1559.5	1527.8
35°	985.9	1000.3	1034.9	1052.2	994.5	936.9	902.3	1170.4	1184.8	1176.1
37.5°	717.8	726.4	789.9	856.2	789.9	738.0	717.8	899.4	968.6	959.9
40°	550.6	553.5	565.0	640.0	640.0	599.6	605.4	671.7	792.7	792.7
42.5°	472.8	472.8	484.3	472.8	475.6	518.9	533.3	541.9	671.7	671.7
45°	409.3	409.3	415.1	386.3	357.5	446.8	458.3	461.2	565.0	579.4
47.5°	343.0	343.0	354.6	317.1	302.7	354.6	386.3	394.9	487.2	498.7
50°	253.7	256.6	291.2	259.4	268.1	273.9	334.4	340.2	412.2	438.2
52.5°	170.1	170.1	175.8	201.8	233.5	224.9	271.0	291.2	328.6	363.2
55°	138.4	138.4	135.5	129.7	173.0	187.4	198.9	242.1	268.1	311.3
57.5°	95.1	100.9	92.2	106.7	112.4	141.3	149.9	190.3	204.7	262.3
60°	11.5	14.4	20.2	77.8	75.0	95.1	112.4	149.9	167.2	201.8
62.5°	2.9	2.9	5.8	14.4	51.9	63.4	89.4	103.8	121.1	155.7
65°	0.0	0.0	2.9	5.8	11.5	34.6	46.1	60.5	86.5	109.5
67.5°	0.0	0.0	2.9	5.8	5.8	14.4	23.1	37.5	46.1	80.7
70°	0.0	0.0	2.9	5.8	5.8	11.5	14.4	17.3	31.7	43.2
72.5°	0.0	0.0	2.9	5.8	8.6	11.5	14.4	14.4	14.4	28.8
75°	0.0	0.0	2.9	5.8	8.6	11.5	14.4	14.4	11.5	11.5
77.5°	0.0	0.0	2.9	5.8	11.5	14.4	17.3	14.4	8.6	8.6
80°	0.0	0.0	2.9	8.6	14.4	20.2	23.1	17.3	8.6	5.8
82.5°	0.0	0.0	5.8	11.5	17.3	23.1	31.7	25.9	11.5	5.8
85°	0.0	0.0	2.9	8.6	17.3	23.1	46.1	31.7	14.4	2.9
87.5°	0.0	0.0	0.0	2.9	2.9	5.8	17.3	11.5	5.8	2.9
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°
262904.4	0°	262904.4	262904.4	262904.4	262904.4	262904.4	262904.4	262904.4	262904.4
258689.9	1°	260497.4	260679.0	260085.2	261004.7	260681.9	258790.8	258165.3	257424.4
248436.2	2°	247675.2	248600.5	248646.6	249667.1	249652.7	247447.4	246764.2	248024.0
230419.4	3°	229721.8	230799.9	229828.4	231641.6	231096.8	228421.7	227726.9	229156.7
207628.8	4°	207009.0	206804.4	206470.0	205438.0	206709.2	204884.5	203509.4	205449.5
181203.2	5°	180839.9	180384.5	179733.0	179427.4	180372.9	179205.5	176377.5	179211.2
155212.8	6°	155403.1	153442.8	153347.7	153177.6	153272.8	150003.8	150199.8	152309.9
127074.8	7°	128418.2	128778.5	128043.4	129222.5	128323.1	126109.1	125255.9	127478.4
107414.9	8°	106665.4	106209.9	105647.8	107409.1	105849.6	104396.7	103402.2	105157.7
87801.0	9°	87636.7	86849.8	86279.0	86189.6	86431.8	83704.7	84258.2	85587.1
71398.5	10°	71424.5	70133.0	70447.2	70530.8	70265.6	68478.4	68495.7	68954.0
43791.0	12.5°	43635.3	43001.1	43159.7	43246.2	43785.2	43156.8	42268.9	41629.0
27610.4	15°	27425.9	26970.5	27901.6	28527.1	28400.3	27841.0	27423.1	26843.6
18354.1	17.5°	18184.0	18780.7	18783.6	19354.4	19412.1	18852.8	18529.9	18008.2
11937.2	20°	11894.0	12141.9	12657.9	13061.5	13295.0	12868.3	12482.1	12124.6
7443.1	22.5°	7443.1	7875.5	8198.4	8723.0	8936.3	8625.0	8351.2	8060.0
4646.9	25°	4569.1	4877.5	5145.6	5601.1	5892.2	5742.3	5491.5	5286.9
3000.9	27.5°	3047.0	3176.7	3309.3	3623.5	3926.2	3842.6	3741.7	3617.8
2115.9	30°	2147.6	2159.1	2300.4	2476.2	2678.0	2729.9	2683.8	2620.4
1553.8	32.5°	1582.6	1628.7	1695.0	1804.6	1940.1	2064.0	2040.9	2012.1
1187.7	35°	1222.3	1291.4	1346.2	1429.8	1501.9	1620.1	1640.3	1631.6
977.2	37.5°	997.4	1057.9	1112.7	1161.7	1222.3	1303.0	1366.4	1369.3
807.2	40°	827.3	882.1	954.2	991.6	1034.9	1095.4	1173.3	1179.0
683.2	42.5°	697.6	749.5	821.6	867.7	899.4	957.1	1034.9	1046.4
585.2	45°	599.6	631.3	706.3	761.0	792.7	830.2	913.8	925.3
504.5	47.5°	521.8	553.5	599.6	677.4	706.3	740.9	807.2	827.3
446.8	50°	458.3	490.1	530.4	599.6	642.8	671.7	726.4	755.3
389.2	52.5°	406.5	438.2	481.4	536.2	585.2	611.1	663.0	700.5
317.1	55°	340.2	394.9	426.6	475.6	541.9	565.0	605.4	654.4
276.7	57.5°	296.9	343.0	389.2	429.5	495.8	524.7	565.0	611.1
219.1	60°	250.8	294.0	348.8	383.4	446.8	484.3	527.5	570.8
167.2	62.5°	198.9	256.6	294.0	343.0	403.6	452.6	487.2	530.4
129.7	65°	147.0	210.4	253.7	305.6	363.2	415.1	443.9	490.1
92.2	67.5°	106.7	164.3	216.2	265.2	320.0	371.9	400.7	441.1
57.7	70°	83.6	121.1	178.7	222.0	279.6	322.9	354.6	380.5
37.5	72.5°	49.0	92.2	144.1	193.1	245.0	273.9	296.9	320.0
17.3	75°	31.7	72.1	118.2	161.4	198.9	224.9	245.0	265.2
8.6	77.5°	20.2	51.9	95.1	135.5	152.8	184.5	201.8	213.3
5.8	80°	11.5	40.4	83.6	109.5	124.0	144.1	161.4	175.8
5.8	82.5°	8.6	34.6	69.2	92.2	92.2	115.3	124.0	124.0
2.9	85°	5.8	28.8	54.8	86.5	69.2	86.5	80.7	80.7
2.9	87.5°	5.8	20.2	25.9	37.5	31.7	37.5	37.5	43.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
262904.4
254489.8
242688.1
222806.2
198427.2
171745.0
146192.9
121433.4
100144.7
81436.1
65834.9
41239.8
26546.7
17878.5
12000.6
7904.3
5168.7
3545.7
2577.1
1989.1
1602.8
1349.1
1170.4
1037.8
922.5
830.2
758.1
700.5
657.3
614.0
582.3
550.6
498.7
443.9
389.2
325.7
265.2
207.6
158.5
115.3
77.8
43.2
0.0

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