

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: P637893

Luminaire Tested: **IFLD-L-SA8A-735-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637893
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-735-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28489.6 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

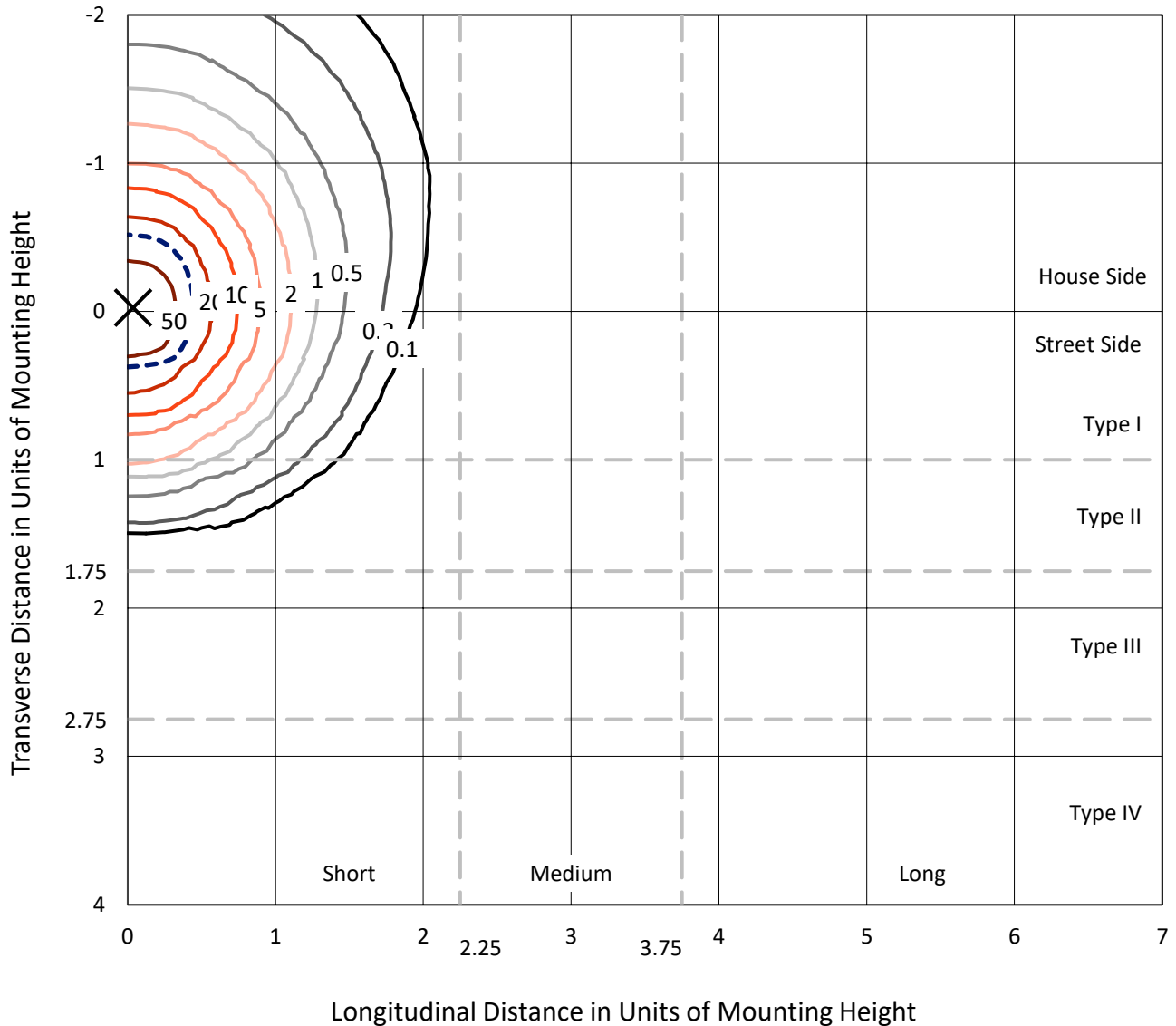
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

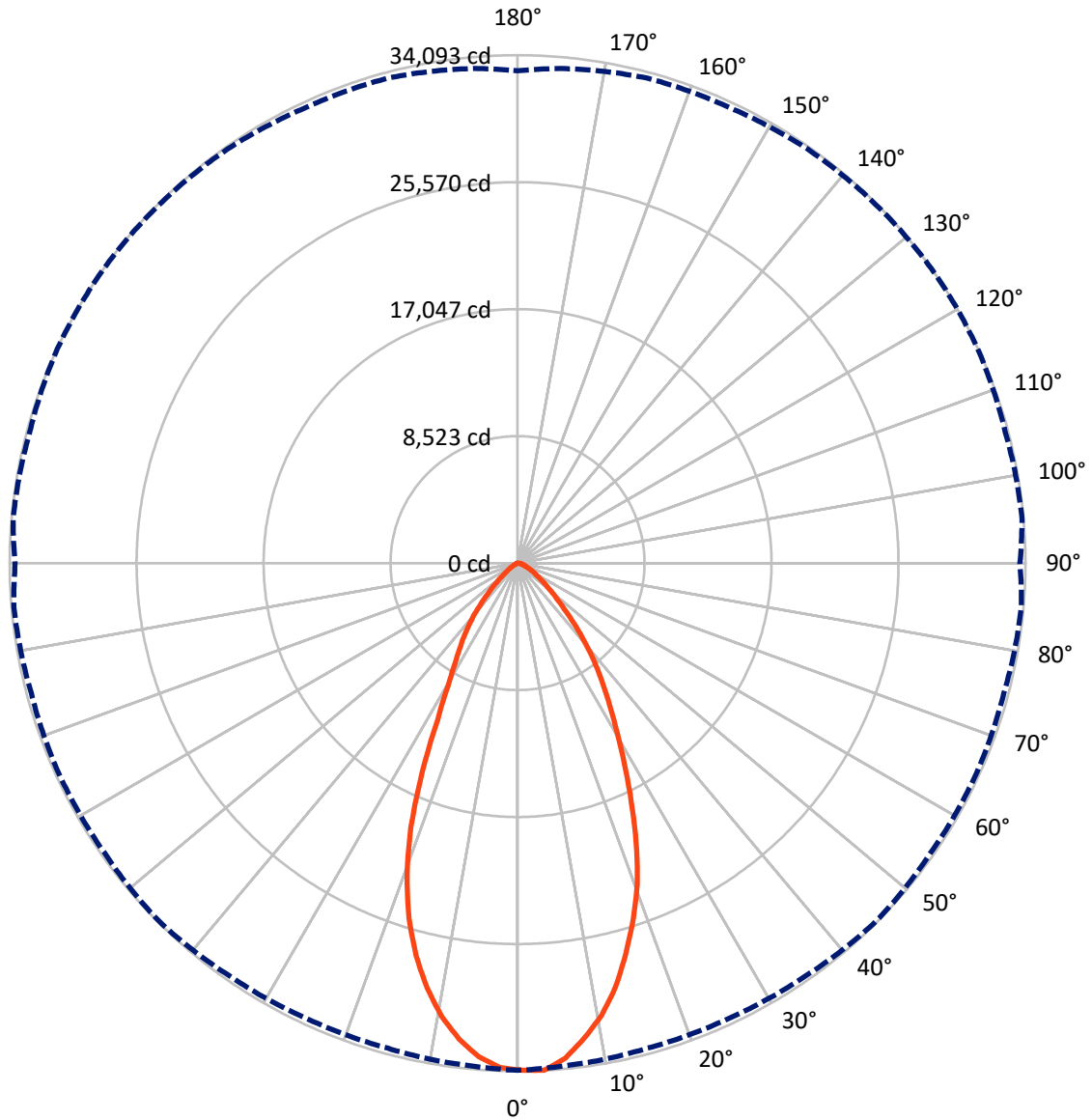
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 85.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16166.1	0.0	16166.1
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	12323.5	0.0	12323.5
	% Fixture	43.3	0.0	43.3
Total	Lumens	28489.6	0.0	28489.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3090.8	10.8
10°-20°	7367.7	25.9
20°-30°	7503.9	26.3
30°-40°	5595.6	19.6
40°-50°	2923.3	10.3
50°-60°	1229.6	4.3
60°-70°	502.2	1.8
70°-80°	211.3	0.7
80°-90°	65.1	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°	28489.6	100.0
0°-180°	28489.6	100.0



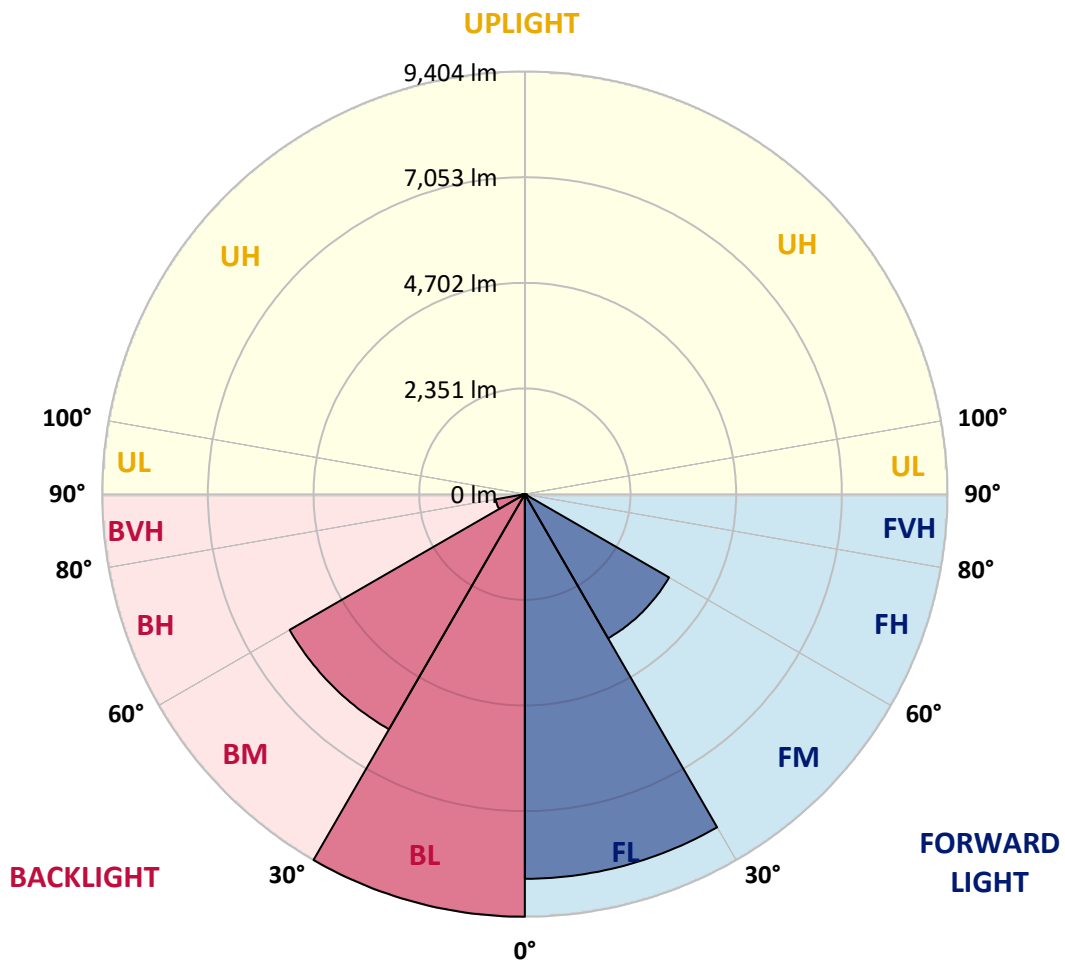
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8558.6	30.0			
FM (30°-60°)	3705.2	13.0			
FH (60°-80°)	53.6	0.2			G0/660
FVH (80°-90°)	6.1	0.0			G0/10
BL (0°-30°)	9403.8	33.0	B5		
BM (30°-60°)	6043.3	21.2	B4/8500		
BH (60°-80°)	659.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	59.1	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	34038.1	34038.1	34038.1	34038.1	34038.1	34038.1	34038.1	34038.1	34038.1	34038.1
2.5°	34041.8	33902.7	33705.1	33686.8	33789.3	34012.5	33869.8	33877.1	33789.3	33939.3
5°	33507.5	33375.7	33240.3	33061.0	33211.0	33306.2	33233.0	33152.5	33039.0	33185.4
7.5°	32497.4	32424.2	32222.9	32142.4	32233.9	32340.1	32182.7	32160.7	32003.4	32193.7
10°	30953.1	30923.8	30726.2	30678.6	30759.1	30920.1	30850.6	30836.0	30737.1	30718.8
12.5°	29350.1	29236.7	28991.5	28976.9	29097.6	29339.2	29152.5	28973.2	29028.1	29075.7
15°	25222.1	25101.3	25708.8	26664.0	27165.4	27147.1	27201.9	26986.0	26920.2	26942.1
17.5°	20051.1	19846.1	20065.7	21544.2	23926.6	25309.9	24929.3	24464.6	24215.7	24051.0
20°	17306.3	17317.3	17277.1	17657.7	19143.5	22298.1	22206.6	21310.0	20984.3	20848.9
22.5°	15637.6	15575.3	15487.5	15608.3	16007.2	17858.9	19099.6	18276.1	18162.7	18012.6
25°	14001.7	14001.7	13895.6	14016.3	14129.8	14155.4	15399.7	15736.4	15516.8	15516.8
27.5°	12585.4	12512.2	12464.7	12519.6	12369.5	11648.6	11805.9	13529.6	13379.6	13288.1
30°	11180.1	11158.2	11077.7	11150.9	10594.6	9782.2	9452.8	11418.0	11575.4	11542.4
32.5°	9229.6	9317.4	9676.0	9789.5	8838.0	8182.9	7868.2	9478.4	10107.9	10082.3
35°	6272.6	6345.8	6755.7	8109.7	7326.6	6858.1	6766.6	7538.8	8574.5	8673.3
37.5°	4995.4	4984.4	5101.5	5343.0	5888.3	5774.9	5749.3	5950.5	6993.5	7037.4
40°	4117.1	4102.4	4098.8	3901.2	3765.7	4801.4	4731.9	4611.1	5515.0	5602.9
42.5°	3319.3	3333.9	3344.9	2913.1	2715.4	3703.5	3663.3	3538.9	4325.7	4428.1
45°	2605.6	2602.0	2623.9	2170.2	2115.3	2367.8	2737.4	2638.6	3264.4	3374.2
47.5°	1350.4	1398.0	1694.4	1679.8	1705.4	1679.8	2071.3	2045.7	2455.6	2631.3
50°	907.6	922.2	947.8	951.5	1343.1	1237.0	1405.3	1591.9	1720.0	1990.8
52.5°	702.6	713.6	647.8	607.5	823.4	914.9	922.2	1101.5	1200.4	1474.8
55°	391.6	439.2	472.1	475.8	453.8	677.0	673.4	816.1	892.9	1075.9
57.5°	51.2	62.2	95.2	307.4	303.7	376.9	472.1	592.9	636.8	786.8
60°	3.7	7.3	11.0	47.6	201.3	219.6	322.0	369.6	442.8	552.6
62.5°	0.0	0.0	3.7	11.0	40.3	128.1	168.3	194.0	259.8	362.3
65°	0.0	0.0	3.7	7.3	14.6	47.6	65.9	106.1	153.7	223.2
67.5°	0.0	0.0	3.7	7.3	11.0	18.3	29.3	47.6	80.5	135.4
70°	0.0	0.0	3.7	7.3	11.0	14.6	22.0	29.3	43.9	73.2
72.5°	0.0	0.0	3.7	3.7	7.3	18.3	18.3	22.0	29.3	40.3
75°	0.0	0.0	3.7	7.3	11.0	18.3	18.3	18.3	22.0	25.6
77.5°	0.0	0.0	3.7	7.3	11.0	18.3	14.6	18.3	18.3	18.3
80°	0.0	0.0	3.7	7.3	11.0	18.3	22.0	18.3	14.6	14.6
82.5°	0.0	0.0	3.7	11.0	11.0	25.6	25.6	25.6	11.0	11.0
85°	0.0	0.0	7.3	11.0	18.3	29.3	29.3	22.0	11.0	7.3
87.5°	0.0	0.0	3.7	7.3	7.3	14.6	22.0	18.3	7.3	3.7
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°
34038.1	0°	34038.1	34038.1	34038.1	34038.1	34038.1	34038.1	34038.1	34038.1	34038.1
33719.7	2.5°	33990.5	33899.1	34071.1	34093.0	34019.8	33928.3	33716.1	33697.8	33328.2
32973.2	5°	33346.4	33196.4	33306.2	33379.4	33353.8	33255.0	33167.1	33086.6	32753.6
31761.8	7.5°	32146.1	32091.2	32142.4	32197.3	32303.5	32197.3	32160.7	32076.6	31747.2
30568.8	10°	30814.0	30711.5	30905.5	30879.9	30850.6	30821.3	30667.6	30682.2	30294.3
28943.9	12.5°	29178.1	29006.1	29192.8	29214.7	29192.8	29090.3	28918.3	28991.5	28636.5
26748.2	15°	26978.7	26960.4	27095.8	27183.7	27245.9	27136.1	27077.5	27114.1	26901.9
23922.9	17.5°	24277.9	24515.8	24958.6	25108.6	25112.3	25225.8	25192.8	25148.9	24991.5
20794.0	20°	21101.4	21558.8	22239.5	22938.5	23139.8	23044.6	23000.7	23081.2	22847.0
17855.3	22.5°	18170.0	18561.6	19352.1	20373.1	20962.3	21020.9	21009.9	20940.3	20848.9
15502.1	25°	15681.5	16029.1	16786.7	17719.9	18850.7	19019.0	19026.4	19004.4	18923.9
13368.6	27.5°	13580.8	14001.7	14418.9	15253.3	16457.3	17152.6	17064.8	17039.2	17009.9
11568.1	30°	11677.8	12208.5	12600.1	13119.7	14199.3	15139.8	15231.3	15187.4	15117.9
10078.6	32.5°	10170.1	10484.8	10982.5	11333.8	12109.7	13174.6	13526.0	13493.0	13430.8
8735.5	35°	8859.9	8984.4	9375.9	9767.5	10283.5	11315.5	11835.2	11762.0	11751.0
7118.0	37.5°	7297.3	7714.5	7930.4	8325.6	8687.9	9489.4	10206.7	10173.7	10177.4
5723.6	40°	5892.0	6133.5	6561.7	6894.7	7227.7	7813.3	8611.1	8633.0	8625.7
4431.8	42.5°	4523.3	4757.5	5207.6	5569.9	5866.4	6228.7	6989.9	7015.5	7048.4
3451.0	45°	3531.5	3681.6	4010.9	4387.9	4702.6	4922.2	5500.4	5665.1	5668.8
2675.2	47.5°	2741.1	2913.1	3147.3	3509.6	3817.0	3974.3	4395.2	4618.4	4607.5
2053.0	50°	2151.9	2309.2	2499.5	2785.0	3118.0	3242.4	3553.5	3773.1	3762.1
1548.0	52.5°	1646.8	1848.1	2016.5	2236.0	2561.7	2667.9	2891.1	3143.6	3107.0
1134.5	55°	1247.9	1452.9	1610.2	1793.2	2089.6	2225.0	2378.8	2580.0	2587.4
878.3	57.5°	940.5	1152.8	1295.5	1482.1	1705.4	1855.4	1972.5	2188.5	2184.8
600.2	60°	673.4	856.4	1028.4	1222.3	1394.3	1566.3	1646.8	1851.8	1859.1
424.5	62.5°	486.7	658.7	823.4	991.8	1145.5	1313.8	1387.0	1548.0	1570.0
278.1	65°	340.3	461.1	651.4	779.5	951.5	1075.9	1171.1	1310.1	1335.8
164.7	67.5°	219.6	333.0	516.0	629.5	786.8	892.9	991.8	1101.5	1134.5
106.1	70°	131.7	252.5	384.3	505.0	647.8	742.9	838.1	933.2	951.5
51.2	72.5°	84.2	175.7	278.1	409.9	519.7	622.1	706.3	775.8	720.9
32.9	75°	47.6	120.8	219.6	322.0	420.9	519.7	589.2	625.8	501.4
22.0	77.5°	29.3	87.8	179.3	259.8	325.7	417.2	461.1	483.1	358.6
14.6	80°	18.3	65.9	150.0	212.3	212.3	307.4	358.6	376.9	259.8
11.0	82.5°	14.6	47.6	117.1	161.0	142.7	230.6	281.8	285.5	183.0
7.3	85°	11.0	36.6	73.2	106.1	98.8	161.0	164.7	183.0	120.8
7.3	87.5°	7.3	22.0	43.9	62.2	54.9	76.9	87.8	98.8	65.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
34038.1
33039.0
32486.4
31677.7
30162.6
28534.1
26645.7
24757.3
22678.7
20673.2
18653.1
16837.9
15030.1
13266.1
11630.3
10060.3
8497.6
6938.6
5573.6
4567.2
3762.1
3110.7
2587.4
2177.5
1840.8
1562.7
1328.4
1130.8
936.9
669.7
475.8
336.7
241.5
168.3
109.8
58.6
0.0

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