

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: P637836

Luminaire Tested: **IFLD-L-SA8B-727-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637836
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-727-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28699.8 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

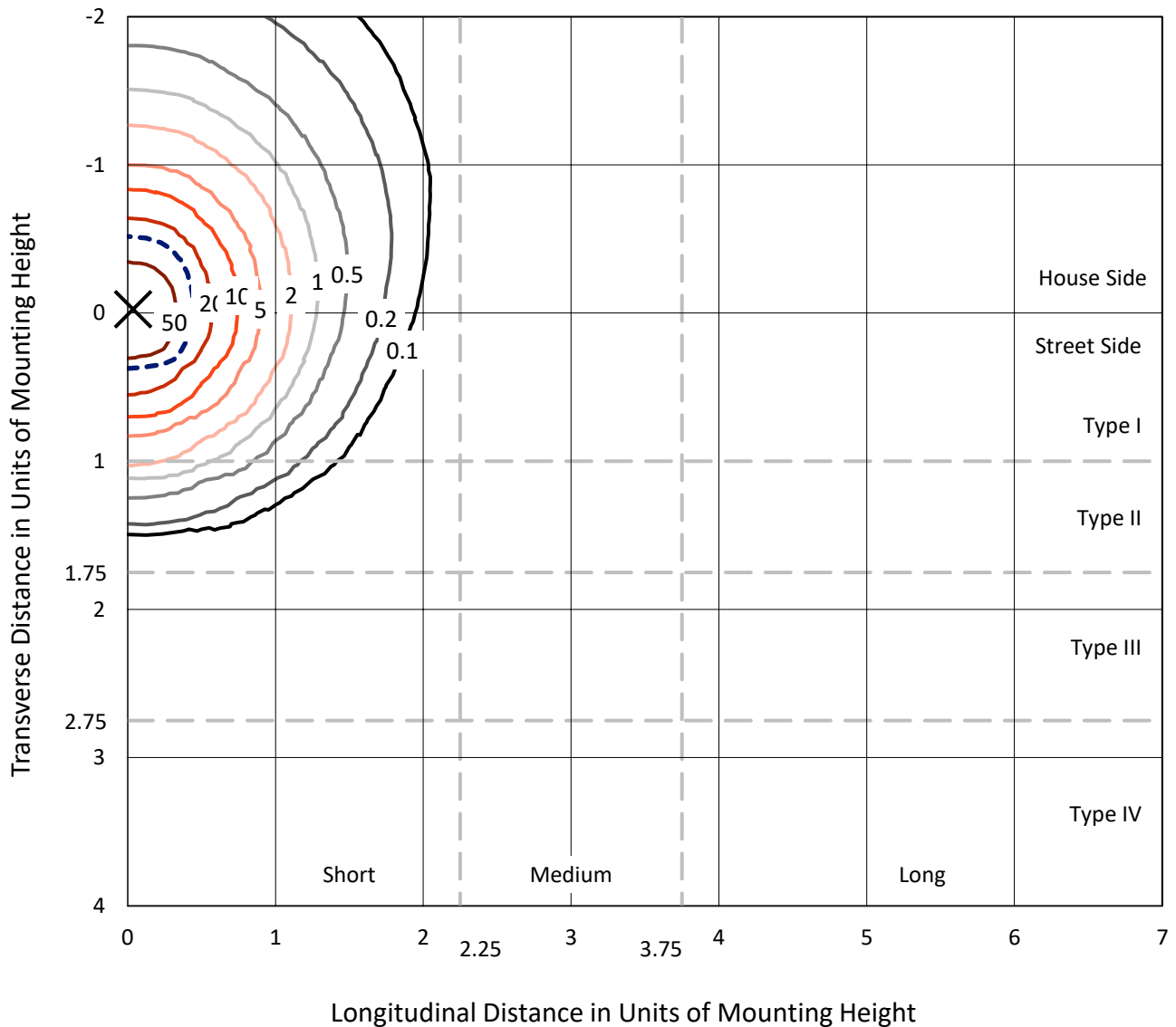
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

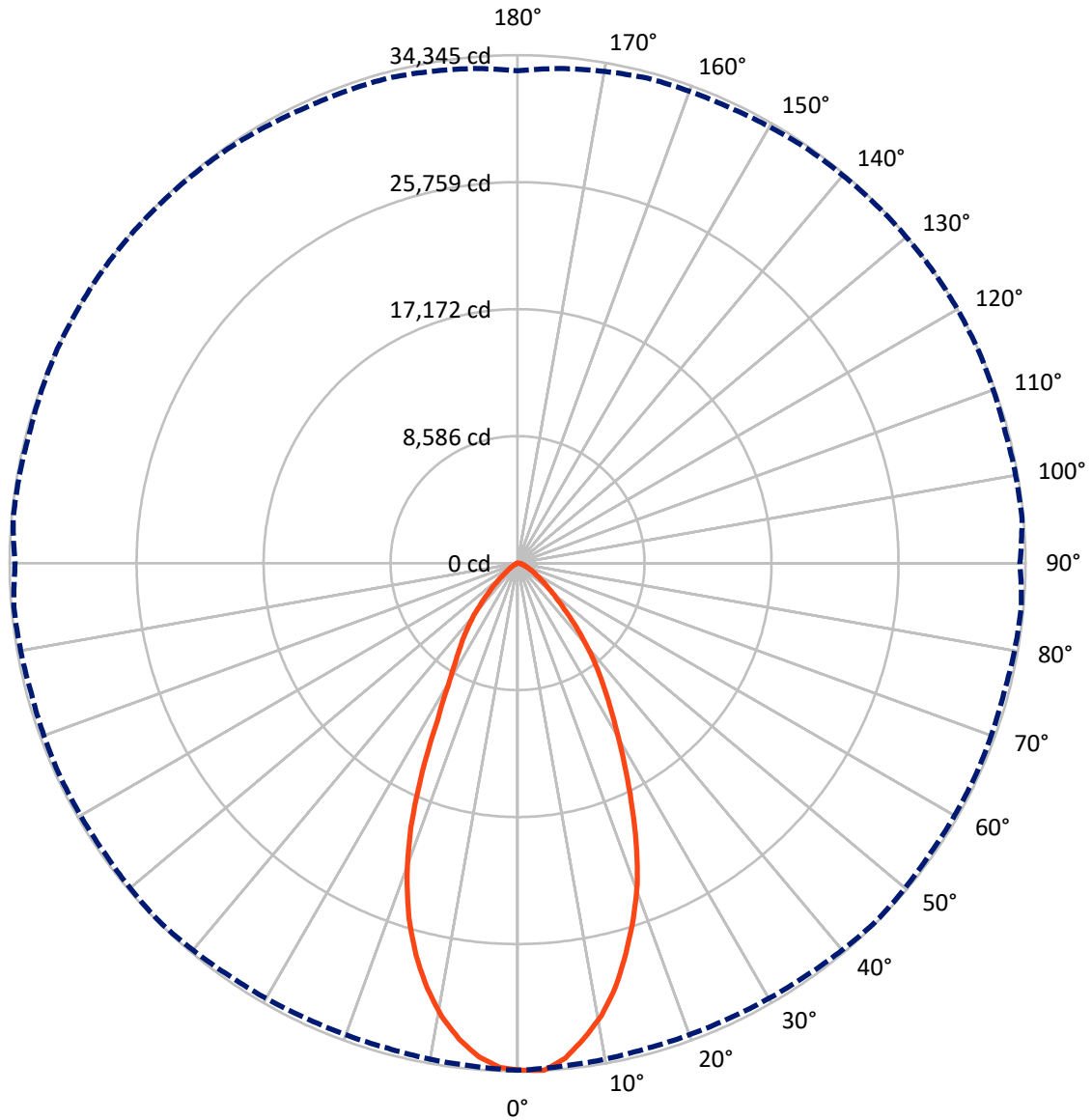
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 85.7 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	16285.4	0.0	16285.4
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	12414.4	0.0	12414.4
	% Fixture	43.3	0.0	43.3
Total	Lumens	28699.8	0.0	28699.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3113.6	10.8
10°-20°	7422.1	25.9
20°-30°	7559.3	26.3
30°-40°	5636.9	19.6
40°-50°	2944.9	10.3
50°-60°	1238.6	4.3
60°-70°	505.9	1.8
70°-80°	212.9	0.7
80°-90°	65.6	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°	28699.8	100.0
0°-180°	28699.8	100.0



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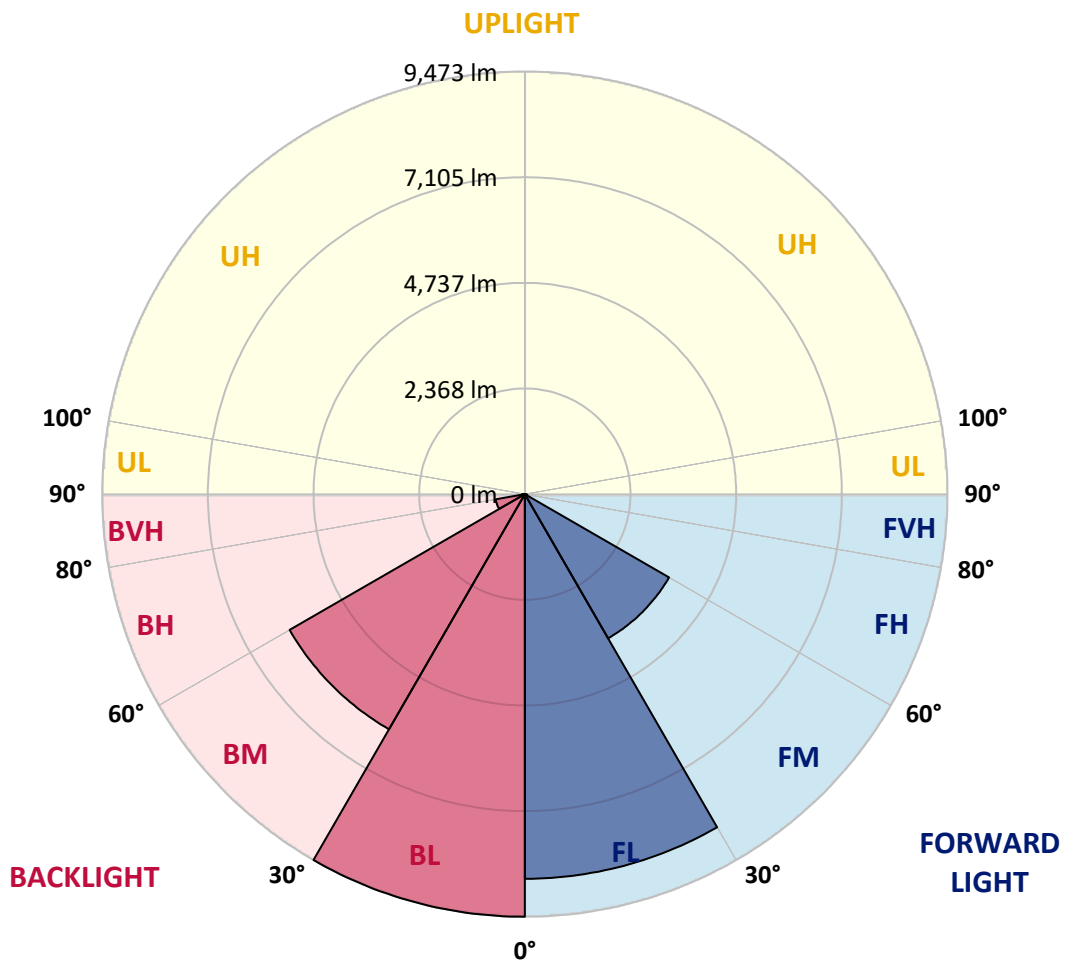
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8621.8	30.0			
FM (30°-60°)	3732.5	13.0			
FH (60°-80°)	54.0	0.2			G0/660
FVH (80°-90°)	6.1	0.0			G0/10
BL (0°-30°)	9473.2	33.0	B5		
BM (30°-60°)	6087.9	21.2	B4/8500		
BH (60°-80°)	664.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	59.5	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	34289.4	34289.4	34289.4	34289.4	34289.4	34289.4	34289.4	34289.4	34289.4	34289.4
2.5°	34293.0	34152.9	33953.9	33935.4	34038.7	34263.5	34119.8	34127.1	34038.7	34189.8
5°	33754.8	33622.1	33485.7	33305.0	33456.2	33552.0	33478.3	33397.2	33282.9	33430.4
7.5°	32737.3	32663.5	32460.8	32379.7	32471.8	32578.8	32420.2	32398.1	32239.6	32431.3
10°	31181.5	31152.0	30953.0	30905.0	30986.1	31148.3	31078.3	31063.6	30964.0	30945.6
12.5°	29566.8	29452.5	29205.5	29190.7	29312.4	29555.7	29367.7	29187.1	29242.4	29290.3
15°	25408.3	25286.6	25898.6	26860.8	27365.9	27347.4	27402.7	27185.2	27118.9	27141.0
17.5°	20199.0	19992.6	20213.8	21703.2	24103.2	25496.7	25113.3	24645.1	24394.4	24228.5
20°	17434.1	17445.1	17404.6	17788.0	19284.8	22462.6	22370.5	21467.3	21139.1	21002.7
22.5°	15753.0	15690.3	15601.8	15723.5	16125.3	17990.8	19240.5	18411.0	18296.7	18145.6
25°	14105.0	14105.0	13998.1	14119.8	14234.1	14259.9	15513.3	15852.5	15631.3	15631.3
27.5°	12678.3	12604.6	12556.7	12612.0	12460.8	11734.5	11893.1	13629.5	13478.3	13386.2
30°	11262.7	11240.5	11159.4	11233.2	10672.8	9854.4	9522.6	11502.3	11660.8	11627.6
32.5°	9297.7	9386.2	9747.5	9861.7	8903.2	8243.3	7926.3	9548.4	10182.5	10156.7
35°	6318.9	6392.6	6805.5	8169.6	7380.6	6908.7	6816.6	7594.5	8637.8	8737.3
37.5°	5032.3	5021.2	5139.2	5382.5	5931.8	5817.5	5791.7	5994.5	7045.2	7089.4
40°	4147.5	4132.7	4129.0	3929.9	3793.5	4836.9	4766.8	4645.2	5555.8	5644.2
42.5°	3343.8	3358.5	3369.6	2934.6	2735.5	3730.9	3690.3	3565.0	4357.6	4460.8
45°	2624.9	2621.2	2643.3	2186.2	2130.9	2385.3	2757.6	2658.1	3288.5	3399.1
47.5°	1360.4	1408.3	1706.9	1692.2	1718.0	1692.2	2086.6	2060.8	2473.7	2650.7
50°	914.3	929.0	954.8	958.5	1353.0	1246.1	1415.7	1603.7	1732.7	2005.5
52.5°	707.8	718.9	652.5	612.0	829.5	921.7	929.0	1109.7	1209.2	1485.7
55°	394.5	442.4	475.6	479.3	457.1	682.0	678.3	822.1	899.5	1083.9
57.5°	51.6	62.7	95.9	309.7	306.0	379.7	475.6	597.2	641.5	792.6
60°	3.7	7.4	11.1	47.9	202.8	221.2	324.4	372.3	446.1	556.7
62.5°	0.0	0.0	3.7	11.1	40.6	129.0	169.6	195.4	261.8	365.0
65°	0.0	0.0	3.7	7.4	14.7	47.9	66.4	106.9	154.8	224.9
67.5°	0.0	0.0	3.7	7.4	11.1	18.4	29.5	47.9	81.1	136.4
70°	0.0	0.0	3.7	7.4	11.1	14.7	22.1	29.5	44.2	73.7
72.5°	0.0	0.0	3.7	3.7	7.4	18.4	18.4	22.1	29.5	40.6
75°	0.0	0.0	3.7	7.4	11.1	18.4	18.4	18.4	22.1	25.8
77.5°	0.0	0.0	3.7	7.4	11.1	18.4	14.7	18.4	18.4	18.4
80°	0.0	0.0	3.7	7.4	11.1	18.4	22.1	18.4	14.7	14.7
82.5°	0.0	0.0	3.7	11.1	11.1	25.8	25.8	25.8	11.1	11.1
85°	0.0	0.0	7.4	11.1	18.4	29.5	29.5	22.1	11.1	7.4
87.5°	0.0	0.0	3.7	7.4	7.4	14.7	22.1	18.4	7.4	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°
34289.4	0°	34289.4	34289.4	34289.4	34289.4	34289.4	34289.4	34289.4	34289.4	34289.4
33968.6	2.5°	34241.4	34149.3	34322.5	34344.7	34270.9	34178.8	33964.9	33946.5	33574.1
33216.5	5°	33592.6	33441.4	33552.0	33625.8	33600.0	33500.4	33411.9	33330.8	32995.3
31996.3	7.5°	32383.4	32328.1	32379.7	32435.0	32541.9	32435.0	32398.1	32313.3	31981.5
30794.4	10°	31041.4	30938.2	31133.6	31107.8	31078.3	31048.8	30894.0	30908.7	30517.9
29157.6	12.5°	29393.5	29220.2	29408.3	29430.4	29408.3	29305.0	29131.8	29205.5	28847.9
26945.6	15°	27177.8	27159.4	27295.8	27384.3	27447.0	27336.4	27277.4	27314.2	27100.4
24099.5	17.5°	24457.1	24696.7	25142.8	25294.0	25297.7	25411.9	25378.8	25334.5	25176.0
20947.4	20°	21257.1	21717.9	22403.7	23107.8	23310.6	23214.7	23170.5	23251.6	23015.6
17987.1	22.5°	18304.1	18698.6	19494.9	20523.5	21117.0	21176.0	21164.9	21094.9	21002.7
15616.6	25°	15797.2	16147.4	16910.6	17850.7	18989.8	19159.4	19166.8	19144.7	19063.6
13467.3	27.5°	13681.1	14105.0	14525.3	15365.9	16578.8	17279.2	17190.8	17165.0	17135.5
11653.4	30°	11764.0	12298.6	12693.1	13216.6	14304.1	15251.6	15343.8	15299.5	15229.5
10153.0	32.5°	10245.1	10562.2	11063.6	11417.5	12199.1	13271.9	13625.8	13592.6	13529.9
8800.0	35°	8925.3	9050.7	9445.1	9839.6	10359.4	11399.1	11922.6	11848.8	11837.8
7170.5	37.5°	7351.1	7771.4	7988.9	8387.1	8752.1	9559.4	10282.0	10248.8	10252.5
5765.9	40°	5935.5	6178.8	6610.1	6945.6	7281.1	7871.0	8674.6	8696.8	8689.4
4464.5	42.5°	4556.7	4792.6	5246.1	5611.1	5909.7	6274.6	7041.5	7067.3	7100.5
3476.5	45°	3557.6	3708.8	4040.5	4420.3	4737.3	4958.5	5541.0	5706.9	5710.6
2694.9	47.5°	2761.3	2934.6	3170.5	3535.5	3845.2	4003.7	4427.6	4652.5	4641.5
2068.2	50°	2167.7	2326.3	2518.0	2805.5	3141.0	3266.4	3579.7	3800.9	3789.9
1559.4	52.5°	1659.0	1861.7	2031.3	2252.5	2580.6	2687.6	2912.4	3166.8	3129.9
1142.9	55°	1257.1	1463.6	1622.1	1806.4	2105.1	2241.5	2396.3	2599.1	2606.4
884.8	57.5°	947.5	1161.3	1305.1	1493.1	1718.0	1869.1	1987.1	2204.6	2200.9
604.6	60°	678.3	862.7	1035.9	1231.3	1404.6	1577.9	1659.0	1865.4	1872.8
427.6	62.5°	490.3	663.6	829.5	999.1	1153.9	1323.5	1397.2	1559.4	1581.6
280.2	65°	342.9	464.5	656.2	785.3	958.5	1083.9	1179.7	1319.8	1345.6
165.9	67.5°	221.2	335.5	519.8	634.1	792.6	899.5	999.1	1109.7	1142.9
106.9	70°	132.7	254.4	387.1	508.8	652.5	748.4	844.2	940.1	958.5
51.6	72.5°	84.8	177.0	280.2	412.9	523.5	626.7	711.5	781.6	726.3
33.2	75°	47.9	121.7	221.2	324.4	424.0	523.5	593.5	630.4	505.1
22.1	77.5°	29.5	88.5	180.6	261.8	328.1	420.3	464.5	486.6	361.3
14.7	80°	18.4	66.4	151.2	213.8	213.8	309.7	361.3	379.7	261.8
11.1	82.5°	14.7	47.9	118.0	162.2	143.8	232.3	283.9	287.6	184.3
7.4	85°	11.1	36.9	73.7	106.9	99.5	162.2	165.9	184.3	121.7
7.4	87.5°	7.4	22.1	44.2	62.7	55.3	77.4	88.5	99.5	66.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
34289.4
33282.9
32726.2
31911.5
30385.2
28744.7
26842.4
24940.1
22846.1
20825.8
18790.8
16962.2
15141.0
13364.0
11716.1
10134.5
8560.4
6989.9
5614.7
4600.9
3789.9
3133.6
2606.4
2193.5
1854.4
1574.2
1338.2
1139.2
943.8
674.7
479.3
339.2
243.3
169.6
110.6
59.0
0.0

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