

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: P638170

Luminaire Tested: **IFLD-S-SA6C-740-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638170
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-740-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31961 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 321.5
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

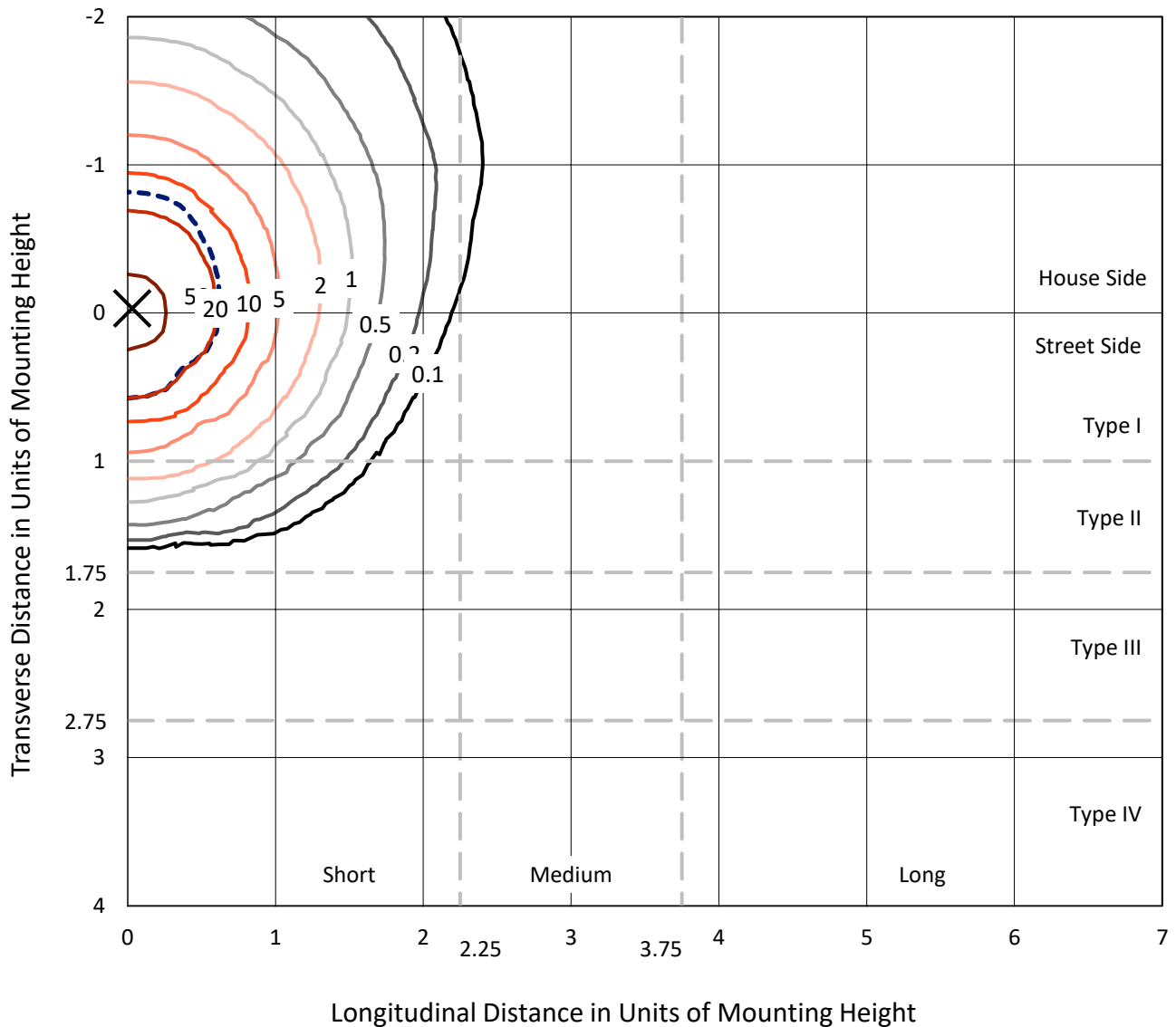




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Iso-Footcandle Lines of Horizontal Illumination

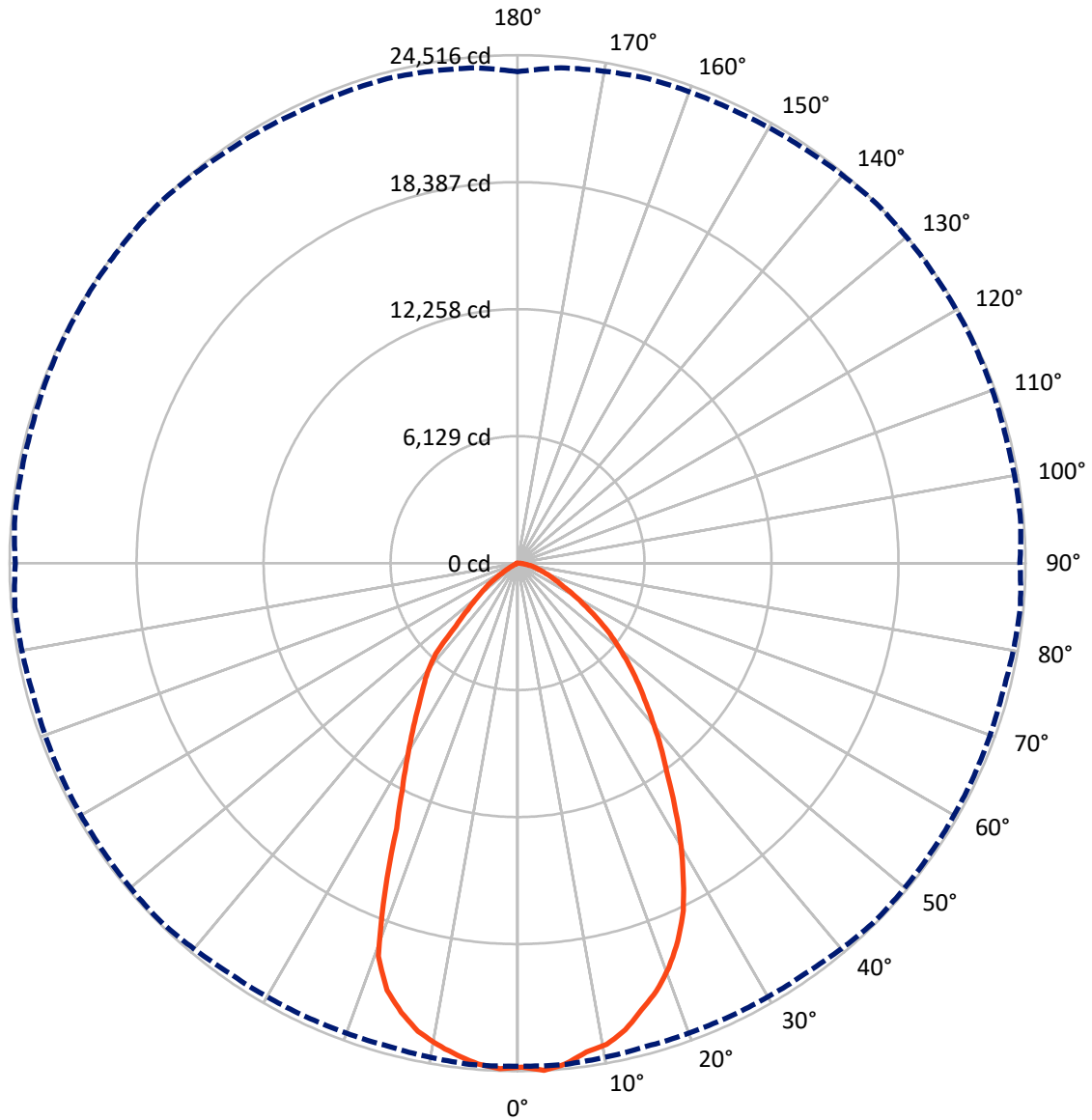
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 60.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18928.9	0.0	18928.9
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	13032.1	0.0	13032.1
	% Fixture	40.8	0.0	40.8
Total	Lumens	31961.0	0.0	31961.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2281.0	7.1
10°-20°	6116.8	19.1
20°-30°	7459.7	23.3
30°-40°	6810.6	21.3
40°-50°	4921.9	15.4
50°-60°	2687.4	8.4
60°-70°	1111.1	3.5
70°-80°	450.0	1.4
80°-90°	122.4	0.4
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°	31961.0	100.0
0°-180°	31961.0	100.0



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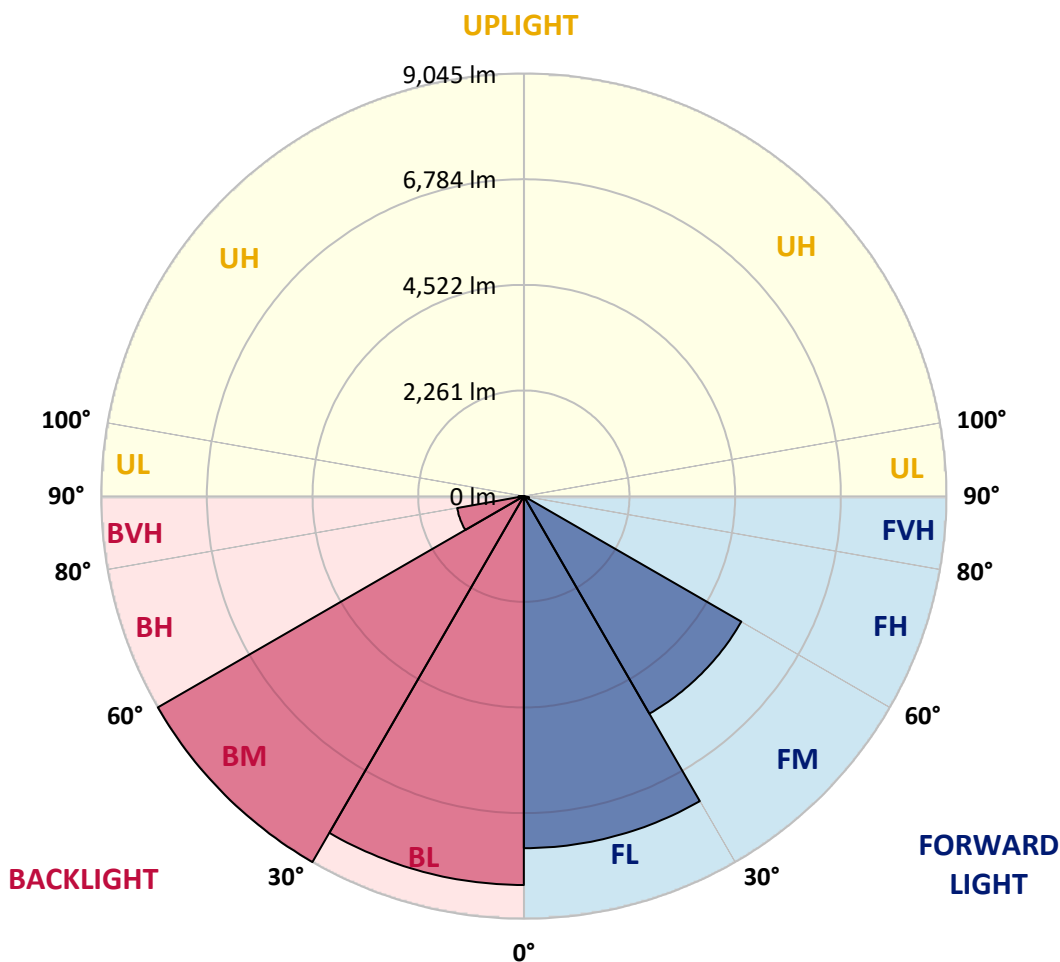
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7534.4	23.6			
FM (30°-60°)	5375.2	16.8			
FH (60°-80°)	112.6	0.4			G0/660
FVH (80°-90°)	9.8	0.0			G0/10
BL (0°-30°)	8323.1	26.0	B5		
BM (30°-60°)	9044.7	28.3	B5		
BH (60°-80°)	1448.5	4.5	B3/2500		G3/2500
BVH (80°-90°)	112.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	24322.2	24322.2	24322.2	24322.2	24322.2	24322.2	24322.2	24322.2	24322.2	24322.2
2.5°	24277.2	24308.7	24137.7	24155.7	24187.2	24416.7	24358.2	24304.2	24227.7	24358.2
5°	24245.7	24263.7	24083.7	24020.7	24047.7	24254.7	24065.7	24065.7	24047.7	24025.2
7.5°	24002.7	24011.7	23872.1	23759.6	23831.6	23926.2	23786.6	23854.1	23755.1	23831.6
10°	23638.1	23579.6	23413.1	23381.6	23462.6	23552.6	23458.1	23521.1	23431.1	23489.6
12.5°	23102.5	23012.5	22877.5	22837.0	22976.5	23098.0	23021.5	22985.5	22868.5	23012.5
15°	21036.7	20969.1	21275.2	21810.8	22292.4	22395.9	22314.9	22350.9	22107.8	22148.3
17.5°	17314.5	17188.5	17517.0	18786.3	20595.6	21549.7	21477.7	21243.7	20883.6	20964.6
20°	15734.7	15698.7	15662.7	15964.3	17229.0	20123.0	20222.0	19627.9	19114.8	19002.3
22.5°	14843.6	14830.1	14794.1	14861.6	15194.6	17053.5	18187.7	17638.6	17296.5	17265.0
25°	14028.9	14006.4	13898.4	13983.9	13983.9	14091.9	15545.7	15878.8	15577.2	15541.2
27.5°	13200.8	13160.3	13142.3	13182.8	12975.8	12246.6	12615.7	14240.5	14082.9	14091.9
30°	12305.1	12291.6	12242.1	12327.6	11688.5	10783.9	10549.8	12755.2	12786.7	12777.7
32.5°	10972.9	11031.4	11256.5	11351.0	10297.8	9550.7	9159.1	11035.9	11679.5	11666.0
35°	7970.9	7970.9	8704.5	10068.2	9024.1	8461.5	8249.9	9357.1	10585.8	10630.8
37.5°	6553.1	6575.6	6719.7	7340.8	7786.4	7588.3	7525.3	7876.4	9181.6	9253.6
40°	5896.0	5896.0	5896.0	5639.5	5626.0	6836.7	6800.7	6688.2	7930.4	8087.9
42.5°	5297.4	5310.9	5319.9	4671.8	4311.7	5909.5	5828.5	5657.5	6809.7	6994.2
45°	4680.8	4703.3	4730.3	3906.7	3749.2	4253.2	4932.9	4743.8	5702.5	5941.0
47.5°	2858.0	2894.0	3506.1	3312.6	3330.6	3281.1	4023.7	3992.2	4676.3	5013.9
50°	1930.8	1944.3	2002.8	2101.9	2858.0	2578.9	2849.0	3303.6	3551.1	4064.2
52.5°	1620.3	1642.8	1498.8	1363.7	1876.8	2016.4	1989.3	2452.9	2551.9	3186.6
55°	1138.7	1210.7	1143.2	1129.7	1066.7	1566.3	1507.8	1885.8	1948.8	2421.4
57.5°	117.0	135.0	234.0	841.6	697.6	886.7	1075.7	1381.7	1444.8	1786.8
60°	9.0	9.0	22.5	117.0	508.6	531.1	742.6	850.6	972.2	1246.7
62.5°	0.0	4.5	9.0	18.0	81.0	283.5	373.6	445.6	585.1	805.6
65°	0.0	0.0	4.5	13.5	18.0	108.0	144.0	234.0	319.6	499.6
67.5°	0.0	0.0	4.5	9.0	13.5	27.0	49.5	85.5	171.0	283.5
70°	0.0	0.0	4.5	9.0	13.5	22.5	36.0	54.0	76.5	153.0
72.5°	0.0	0.0	4.5	4.5	9.0	22.5	27.0	36.0	54.0	76.5
75°	0.0	0.0	4.5	4.5	13.5	27.0	22.5	27.0	36.0	49.5
77.5°	0.0	0.0	4.5	9.0	13.5	27.0	22.5	27.0	27.0	31.5
80°	0.0	0.0	4.5	9.0	18.0	31.5	27.0	27.0	22.5	22.5
82.5°	0.0	0.0	4.5	13.5	18.0	40.5	40.5	36.0	18.0	13.5
85°	0.0	0.0	9.0	18.0	27.0	45.0	45.0	36.0	13.5	9.0
87.5°	0.0	0.0	9.0	13.5	22.5	31.5	45.0	36.0	13.5	4.5
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°
24322.2	0°	24322.2	24322.2	24322.2	24322.2	24322.2	24322.2	24322.2	24322.2	24322.2
24245.7	2.5°	24367.2	24340.2	24430.2	24466.3	24515.8	24326.7	24209.7	24214.2	23998.2
23971.2	5°	24115.2	24119.7	24236.7	24227.7	24277.2	24173.7	24128.7	24052.2	23863.1
23624.6	7.5°	23795.6	23755.1	23867.6	23953.2	23827.1	23899.2	23795.6	23831.6	23719.1
23318.6	10°	23548.1	23453.6	23557.1	23615.6	23620.1	23548.1	23449.1	23354.6	23314.1
22841.5	12.5°	22999.0	22877.5	23053.0	23134.0	23120.5	22981.0	22868.5	22891.0	22760.5
22004.3	15°	22242.9	22247.4	22373.4	22449.9	22377.9	22346.4	22355.4	22301.4	22188.9
20847.6	17.5°	21086.2	21153.7	21486.7	21671.3	21711.8	21648.8	21617.3	21554.2	21441.7
19002.3	20°	19159.8	19564.9	20159.0	20730.6	20843.1	20825.1	20712.6	20685.6	20622.6
17175.0	22.5°	17467.5	17769.1	18457.7	19348.9	19807.9	19853.0	19717.9	19677.4	19609.9
15541.2	25°	15716.7	16040.8	16661.9	17629.6	18579.2	18772.8	18750.3	18628.7	18556.7
14091.9	27.5°	14240.5	14564.5	15127.1	16000.3	17017.5	17638.6	17697.1	17503.5	17499.0
12800.2	30°	12908.2	13353.8	13781.4	14492.5	15478.2	16409.9	16508.9	16373.8	16387.3
11616.5	32.5°	11864.1	12233.1	12597.7	13074.8	13893.9	14978.6	15365.7	15239.6	15190.1
10630.8	35°	10797.4	11049.4	11423.0	11859.6	12417.7	13493.3	14164.0	14069.4	14019.9
9298.6	37.5°	9582.2	10014.2	10284.3	10774.9	11211.4	12066.6	13011.8	12998.3	12894.7
8164.4	40°	8335.4	8790.0	9199.6	9694.7	10032.2	10711.9	11760.5	11756.0	11769.5
6989.7	42.5°	7205.8	7624.3	8119.4	8659.5	8983.6	9478.6	10603.8	10666.9	10743.4
6022.0	45°	6184.1	6562.1	7021.2	7678.3	8069.9	8353.5	9352.6	9640.7	9636.2
5157.9	47.5°	5265.9	5621.5	6008.5	6647.7	7147.2	7403.8	8231.9	8641.5	8614.5
4230.7	50°	4419.8	4734.8	5139.9	5603.5	6274.1	6499.1	7115.7	7655.8	7615.3
3371.1	52.5°	3555.6	3992.2	4334.3	4757.3	5463.9	5684.5	6161.6	6688.2	6656.7
2529.4	55°	2772.5	3195.6	3609.6	3974.2	4568.3	4896.9	5238.9	5779.0	5770.0
1980.3	57.5°	2097.4	2560.9	2952.5	3299.1	3771.7	4176.7	4451.3	4941.9	5004.9
1354.7	60°	1552.8	1908.3	2331.4	2718.5	3092.0	3510.6	3695.1	4176.7	4203.7
927.2	62.5°	1057.7	1449.3	1863.3	2214.4	2493.4	2925.5	3092.0	3488.1	3537.6
594.1	65°	733.6	985.7	1458.3	1710.3	2052.4	2421.4	2587.9	2903.0	3002.0
342.1	67.5°	486.1	702.1	1138.7	1368.2	1705.8	1957.8	2169.4	2425.9	2533.9
216.0	70°	265.5	517.6	814.6	1080.2	1372.7	1615.8	1822.8	2029.9	2124.4
99.0	72.5°	180.0	346.6	567.1	855.1	1107.2	1345.7	1530.3	1683.3	1687.8
58.5	75°	90.0	234.0	432.1	661.6	864.2	1098.2	1264.7	1354.7	1246.7
36.0	77.5°	54.0	171.0	351.1	531.1	702.1	886.7	981.2	1030.7	855.1
27.0	80°	31.5	121.5	274.5	423.1	486.1	652.6	742.6	756.1	571.6
18.0	82.5°	22.5	90.0	216.0	310.6	297.1	459.1	558.1	540.1	364.6
13.5	85°	13.5	63.0	135.0	193.5	180.0	301.6	324.1	333.1	211.5
9.0	87.5°	9.0	36.0	72.0	103.5	85.5	130.5	130.5	157.5	103.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
24322.2
23719.1
23818.1
23530.1
23134.0
22647.9
22076.3
21392.2
20478.6
19591.9
18480.2
17490.0
16319.8
15194.6
13952.4
12980.3
11769.5
10702.9
9645.2
8623.5
7651.3
6724.2
5792.5
4977.9
4244.2
3546.6
2979.5
2520.4
2088.4
1647.3
1165.7
823.6
535.6
337.6
193.5
90.0
0.0

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