

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: P638386

Luminaire Tested: **IFLD-L-SA8A-730-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638386
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-730-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22990.9 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

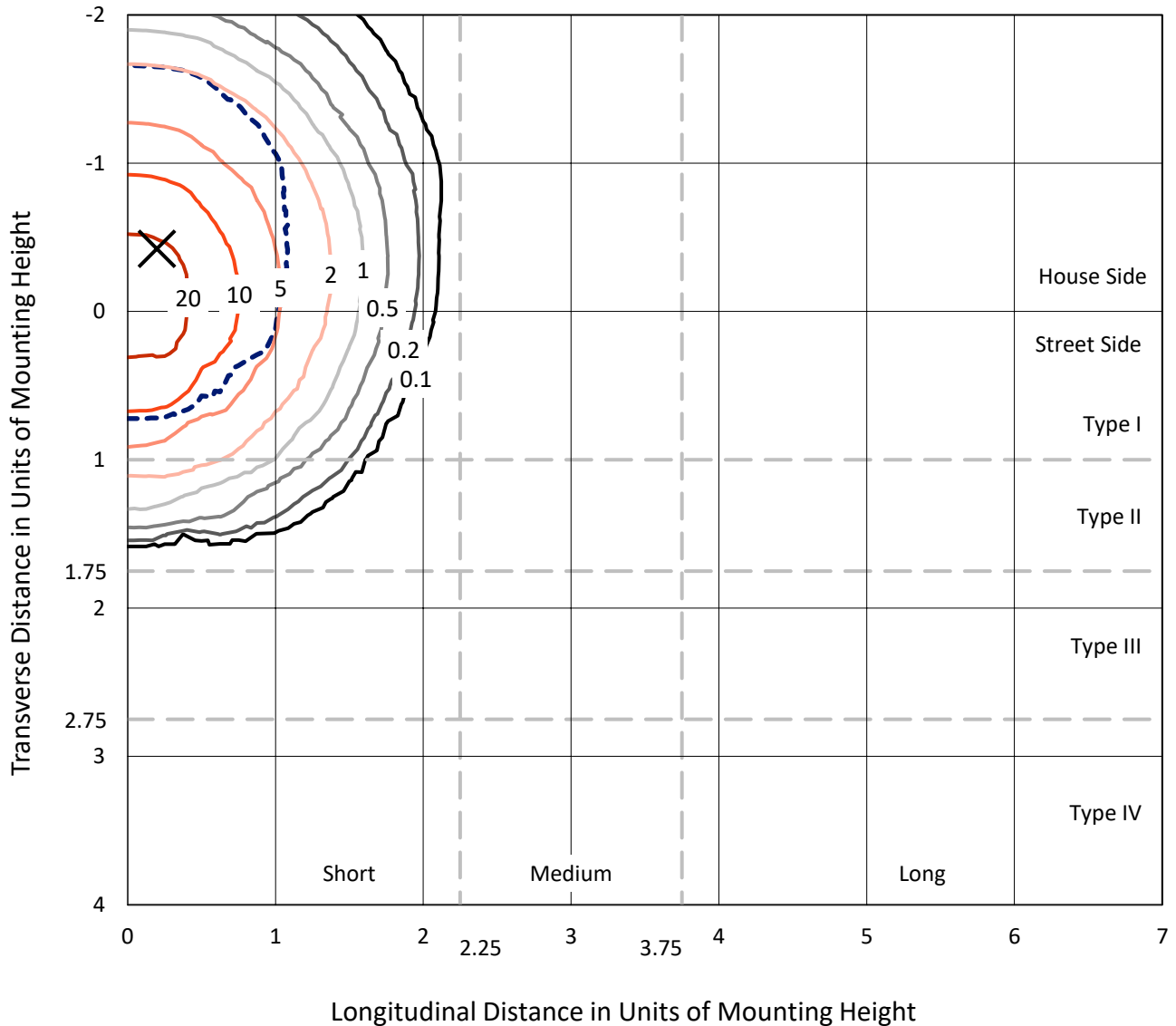
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

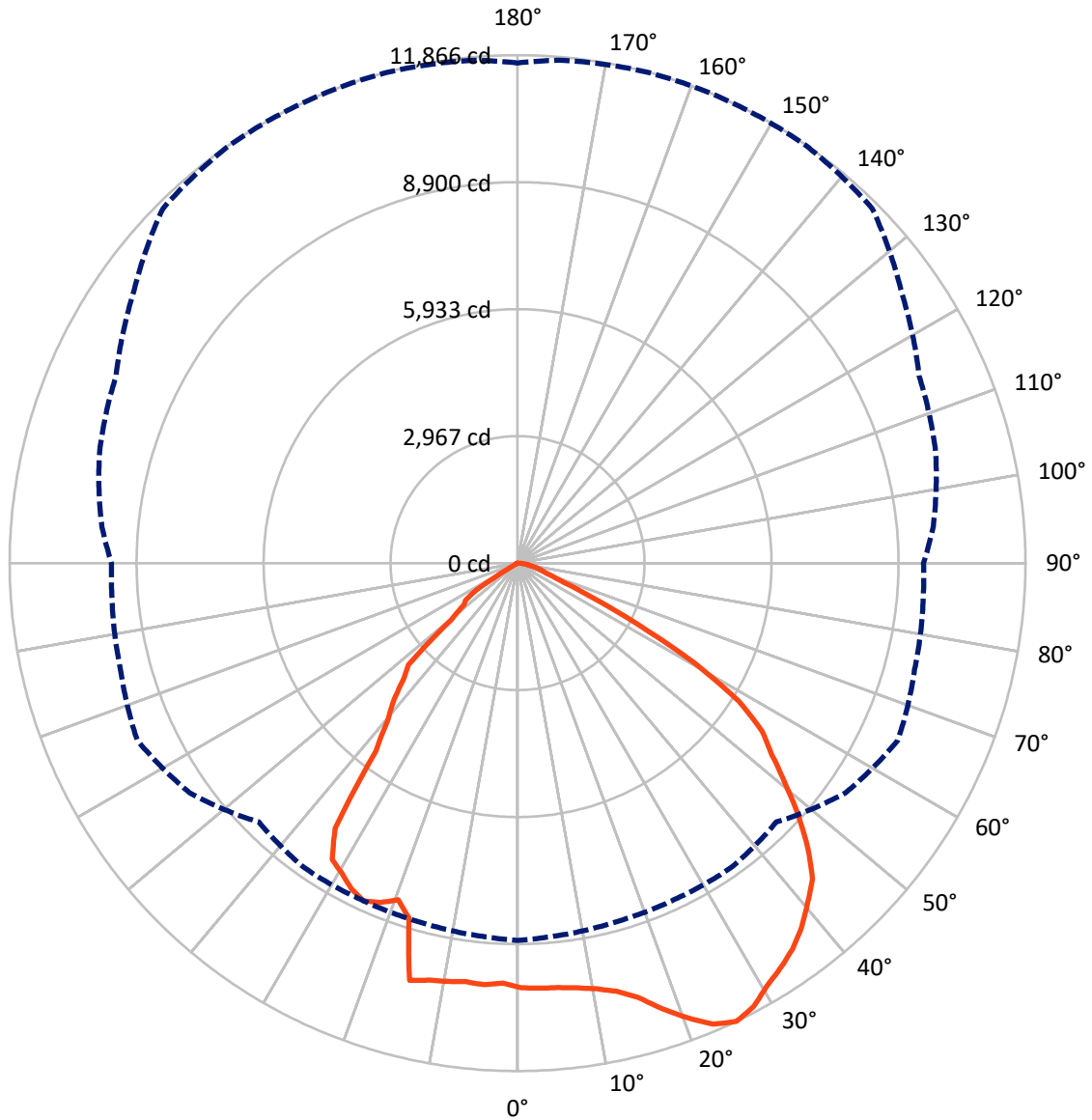
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 24.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14233.7	0.0	14233.7
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	8757.2	0.0	8757.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	22990.9	0.0	22990.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	951.7	4.1
10°-20°	2906.0	12.6
20°-30°	4594.2	20.0
30°-40°	5189.6	22.6
40°-50°	4860.1	21.1
50°-60°	3350.7	14.6
60°-70°	900.2	3.9
70°-80°	187.6	0.8
80°-90°	50.8	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°	22990.9	100.0
0°-180°	22990.9	100.0



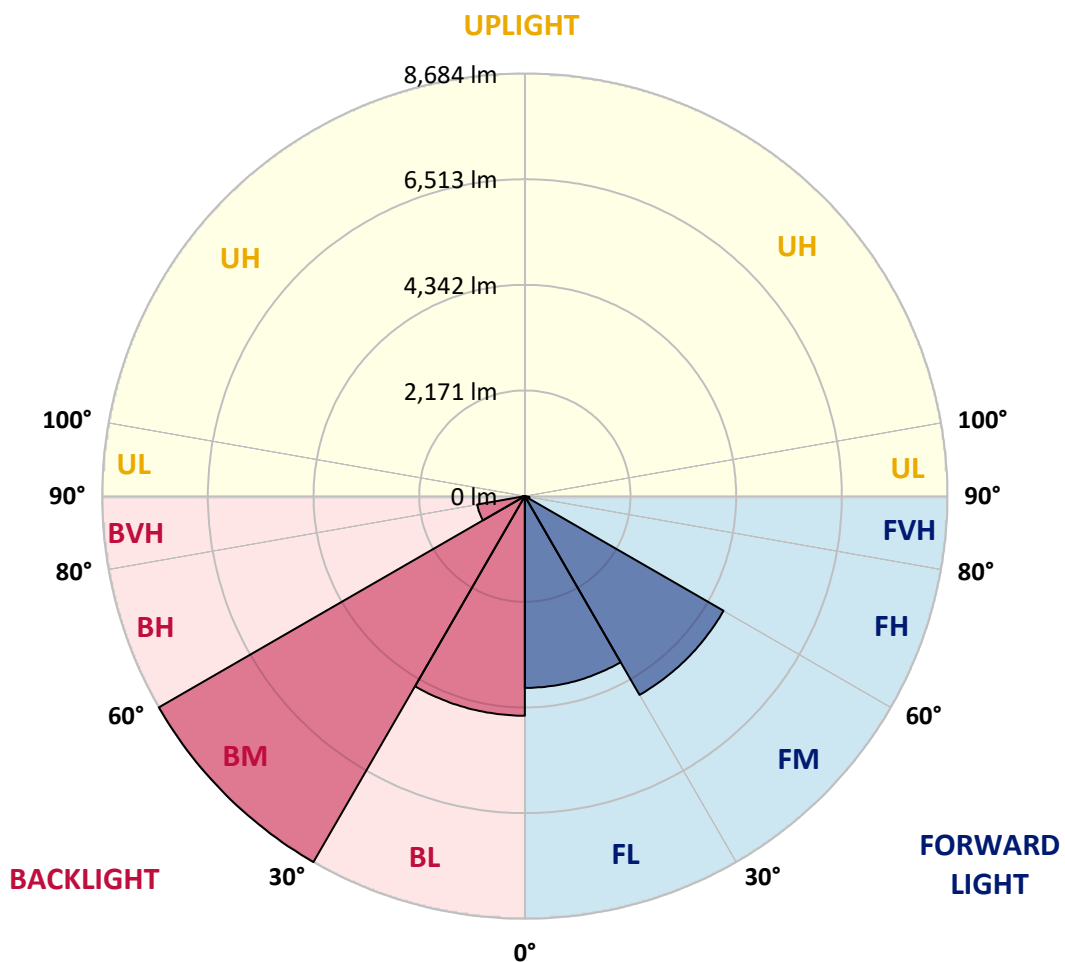
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3939.9	17.1			
FM (30°-60°)	4716.0	20.5			
FH (60°-80°)	94.5	0.4			G0/660
FVH (80°-90°)	6.8	0.0			G0/10
BL (0°-30°)	4512.0	19.6	B4/5000		
BM (30°-60°)	8684.5	37.8	B5		
BH (60°-80°)	993.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	43.9	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°	9920.2	9920.2	9920.2	9920.2	9920.2	9920.2	9920.2	9920.2	9920.2	9920.2
2.5°	9964.1	9899.9	9839.1	9818.8	9903.3	9994.5	9937.1	9940.4	9920.2	9957.3
5°	10038.4	9950.6	9910.0	9879.6	9893.1	9987.7	9906.7	9937.1	9903.3	9947.2
7.5°	10011.4	9950.6	9910.0	9852.6	9896.5	10008.0	9930.3	9933.7	9916.8	9957.3
10°	9994.5	9950.6	9899.9	9906.7	9957.3	10051.9	9991.1	10024.9	10001.3	10024.9
12.5°	10035.1	9987.7	9960.7	9960.7	10004.6	10112.8	10082.4	10112.8	10102.6	10122.9
15°	9653.2	9697.2	9954.0	10068.8	10156.7	10264.8	10251.3	10281.7	10288.5	10318.9
17.5°	8142.9	8099.0	8078.7	8670.0	10241.2	10575.7	10565.5	10562.1	10528.4	10504.7
20°	8342.3	8325.4	8301.7	8345.6	8521.3	10737.8	10805.4	10389.8	10268.2	10258.1
22.5°	8659.9	8632.8	8545.0	8548.4	8602.4	9335.6	10470.9	10092.5	10051.9	10028.3
25°	8815.3	8761.2	8690.3	8670.0	8686.9	8551.8	9352.5	9801.9	9602.6	9511.3
27.5°	8541.6	8545.0	8487.6	8541.6	8477.4	7869.2	7528.0	9234.3	9227.5	9187.0
30°	8335.5	8325.4	8257.8	8325.4	7882.8	7203.6	7058.3	8612.6	8541.6	8487.6
32.5°	7703.7	7710.4	7906.4	8170.0	7443.5	6906.3	6467.0	7693.5	8365.9	8335.5
35°	5510.8	5524.3	6220.4	7521.2	6777.9	6315.0	6281.2	6649.5	8088.9	8102.4
37.5°	5304.7	5304.7	5287.8	5500.7	6254.2	6075.1	6142.7	6105.5	7409.7	7443.5
40°	5156.1	5125.6	5102.0	4767.5	4348.5	5906.2	5953.5	5784.5	7004.3	7011.0
42.5°	4977.0	4943.2	4949.9	4331.6	3892.4	5487.2	5355.4	5129.0	6328.5	6335.3
45°	4649.2	4706.7	4747.2	3791.0	3757.2	3919.4	4939.8	4797.9	5872.4	5997.4
47.5°	2365.2	2415.8	3706.5	3486.9	3564.6	3483.5	4172.8	4176.2	4885.8	5301.3
50°	2145.5	2132.0	2135.4	2034.0	3291.0	2817.9	3017.3	3828.2	3912.7	4507.3
52.5°	2000.3	1996.9	1790.8	1591.4	2067.8	2480.0	2189.5	2770.6	2909.2	3818.1
55°	1479.9	1588.0	1412.3	1496.8	1294.1	1986.7	1976.6	2500.3	2547.6	3061.2
57.5°	13.5	16.9	40.5	1138.7	895.4	993.4	1365.0	1706.3	1790.8	2385.4
60°	3.4	6.8	16.9	33.8	581.2	611.6	912.3	986.6	1111.6	1422.5
62.5°	0.0	0.0	6.8	16.9	30.4	250.0	290.6	317.6	489.9	726.4
65°	0.0	0.0	3.4	10.1	16.9	40.5	71.0	148.7	212.9	263.5
67.5°	0.0	0.0	3.4	6.8	13.5	20.3	40.5	57.4	91.2	155.4
70°	0.0	0.0	3.4	6.8	10.1	16.9	27.0	40.5	54.1	77.7
72.5°	0.0	0.0	3.4	6.8	6.8	20.3	20.3	30.4	40.5	50.7
75°	0.0	0.0	3.4	3.4	6.8	13.5	20.3	23.7	27.0	40.5
77.5°	0.0	0.0	3.4	6.8	10.1	13.5	16.9	27.0	23.7	23.7
80°	0.0	0.0	3.4	10.1	10.1	16.9	20.3	27.0	16.9	16.9
82.5°	0.0	0.0	3.4	13.5	10.1	33.8	33.8	37.2	13.5	13.5
85°	0.0	0.0	10.1	6.8	20.3	33.8	30.4	20.3	16.9	10.1
87.5°	0.0	0.0	3.4	3.4	6.8	10.1	23.7	20.3	6.8	6.8
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°
9920.2	0°	9920.2	9920.2	9920.2	9920.2	9920.2	9920.2	9920.2	9920.2	9920.2
9859.4	2.5°	9994.5	9950.6	10041.8	10031.7	9987.7	9967.5	9943.8	9923.6	9774.9
9866.1	5°	9997.9	9930.3	10041.8	10021.5	10014.8	9981.0	9960.7	9991.1	9856.0
9893.1	7.5°	9997.9	9930.3	10051.9	10058.7	10048.6	10021.5	10018.2	10038.4	9926.9
9940.4	10°	10065.5	10038.4	10139.8	10149.9	10136.4	10129.7	10112.8	10099.2	9981.0
10102.6	12.5°	10207.4	10153.3	10268.2	10298.6	10288.5	10305.4	10264.8	10285.1	10163.4
10268.2	15°	10379.7	10383.1	10470.9	10538.5	10531.7	10585.8	10525.0	10579.0	10491.2
10457.4	17.5°	10643.2	10680.4	10805.4	10906.8	10944.0	10984.5	10944.0	10960.8	10835.8
10247.9	20°	10366.2	10504.7	11106.1	11292.0	11369.7	11406.8	11339.3	11359.5	11234.5
9991.1	22.5°	10116.1	10295.2	10829.1	11410.2	11650.1	11724.5	11700.8	11697.4	11650.1
9484.3	25°	9747.9	10109.4	10349.3	10964.2	11717.7	11852.8	11866.4	11863.0	11792.0
9173.5	27.5°	9295.1	9376.2	9997.9	10372.9	11244.7	11758.2	11738.0	11640.0	11545.4
8528.1	30°	8717.3	9085.6	9366.0	9964.1	10633.1	11467.7	11467.7	11393.3	11295.3
8298.3	32.5°	8423.4	8899.8	9159.9	9376.2	9947.2	11143.3	11278.5	11200.7	11123.0
8119.3	35°	8267.9	8338.9	8947.1	9143.0	9626.2	10518.2	11065.6	10987.9	10930.4
7642.9	37.5°	7926.7	8092.2	8376.1	8899.8	9048.4	10008.0	10781.8	10741.2	10673.6
7024.5	40°	7166.4	7609.1	8044.9	8541.6	8697.0	9352.5	10437.1	10454.0	10362.8
6365.7	42.5°	6717.1	7017.8	7700.3	8034.8	8453.8	8930.2	10102.6	10129.7	10065.5
6031.2	45°	6190.0	6524.5	7004.3	7612.4	8183.5	8349.0	9511.3	9795.2	9741.1
5365.5	47.5°	5706.8	5977.1	6565.0	7180.0	7811.8	7788.1	8832.2	9366.0	9291.7
4855.3	50°	5020.9	5493.9	5771.0	6335.3	7277.9	7342.1	8109.1	8862.6	8801.8
4125.5	52.5°	4233.6	4828.3	5358.8	5875.7	6737.3	6889.4	7436.8	8349.0	8308.5
3152.4	55°	3699.8	4132.3	4730.3	5145.9	6081.8	6487.3	6933.3	7859.1	7838.8
2591.5	57.5°	2632.1	3466.7	3960.0	4541.1	5034.4	5767.6	6098.7	6862.4	6673.1
1436.0	60°	1784.0	2176.0	2777.4	3402.5	3733.6	4466.8	4774.3	5385.8	5335.1
858.2	62.5°	942.7	1304.2	1733.3	2047.6	2287.5	3000.4	3128.8	3787.6	3770.7
344.6	65°	415.6	550.7	939.3	1101.5	1348.1	1679.3	1790.8	2027.3	1969.8
168.9	67.5°	216.2	327.7	530.5	652.1	821.0	946.1	1037.3	1111.6	1158.9
111.5	70°	131.8	239.9	327.7	452.8	564.3	665.6	736.6	837.9	898.8
57.4	72.5°	98.0	152.0	226.4	348.0	408.8	527.1	598.0	672.4	726.4
47.3	75°	54.1	101.4	182.5	273.7	327.7	429.1	493.3	544.0	560.9
27.0	77.5°	33.8	77.7	152.0	212.9	256.8	348.0	331.1	378.4	419.0
20.3	80°	23.7	57.4	118.3	175.7	179.1	223.0	263.5	304.1	331.1
13.5	82.5°	16.9	47.3	87.8	135.2	118.3	172.3	206.1	236.5	172.3
10.1	85°	13.5	33.8	43.9	81.1	67.6	121.6	104.7	101.4	67.6
6.8	87.5°	10.1	16.9	30.4	37.2	27.0	27.0	33.8	40.5	33.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9920.2
9673.5
9741.1
9798.5
9883.0
10055.3
10345.9
10727.7
11146.7
11498.1
11683.9
11471.0
11258.2
11058.8
10849.3
10606.1
10342.5
10058.7
9747.9
9345.8
8811.9
8335.5
7862.5
6652.9
5338.5
3774.1
1946.2
1158.9
902.1
736.6
550.7
425.7
334.5
125.0
67.6
33.8
0.0

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