

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: P638369

Luminaire Tested: **IFLD-S-SA3D-730-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638369
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-730-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15642.4 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

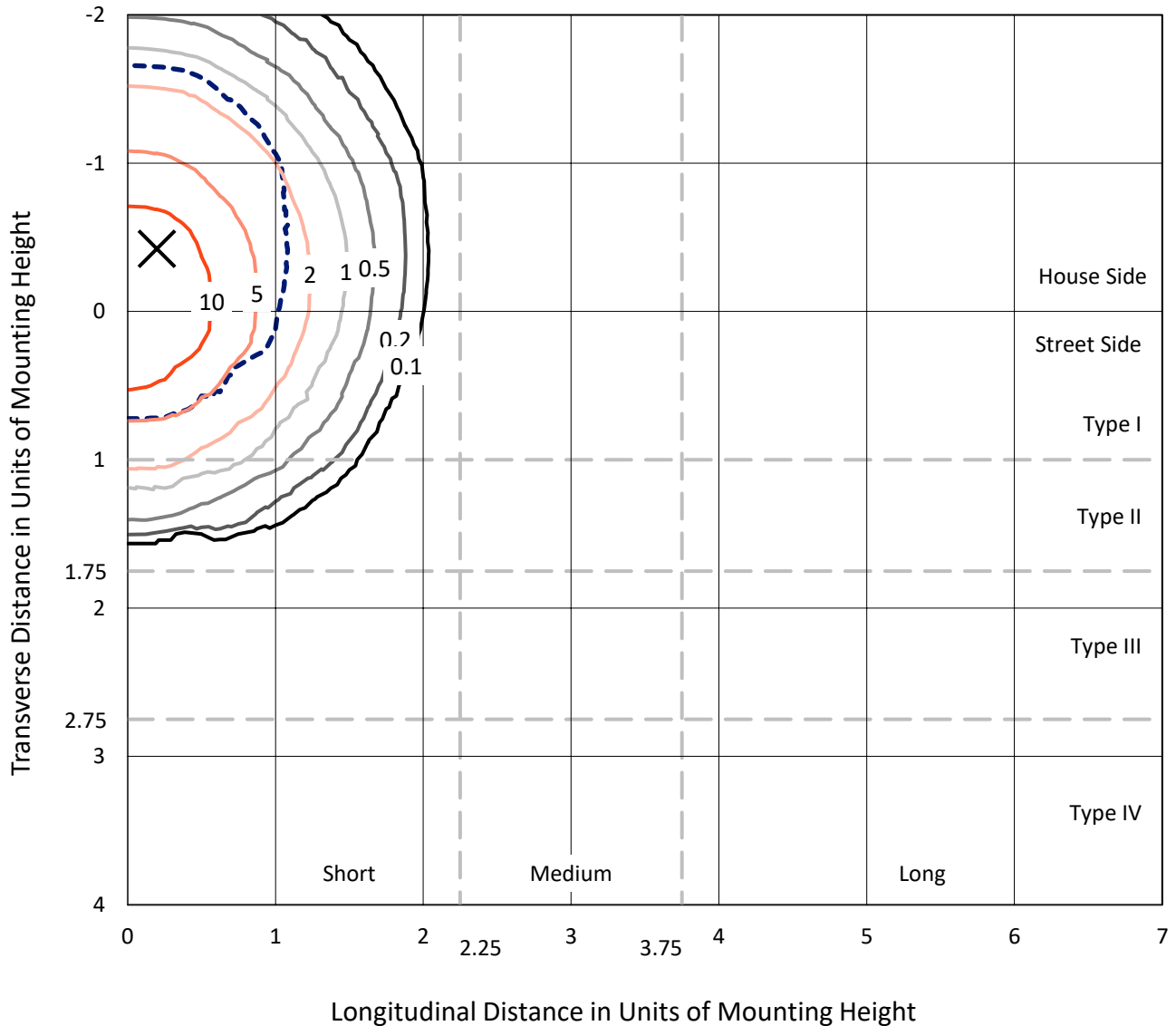
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

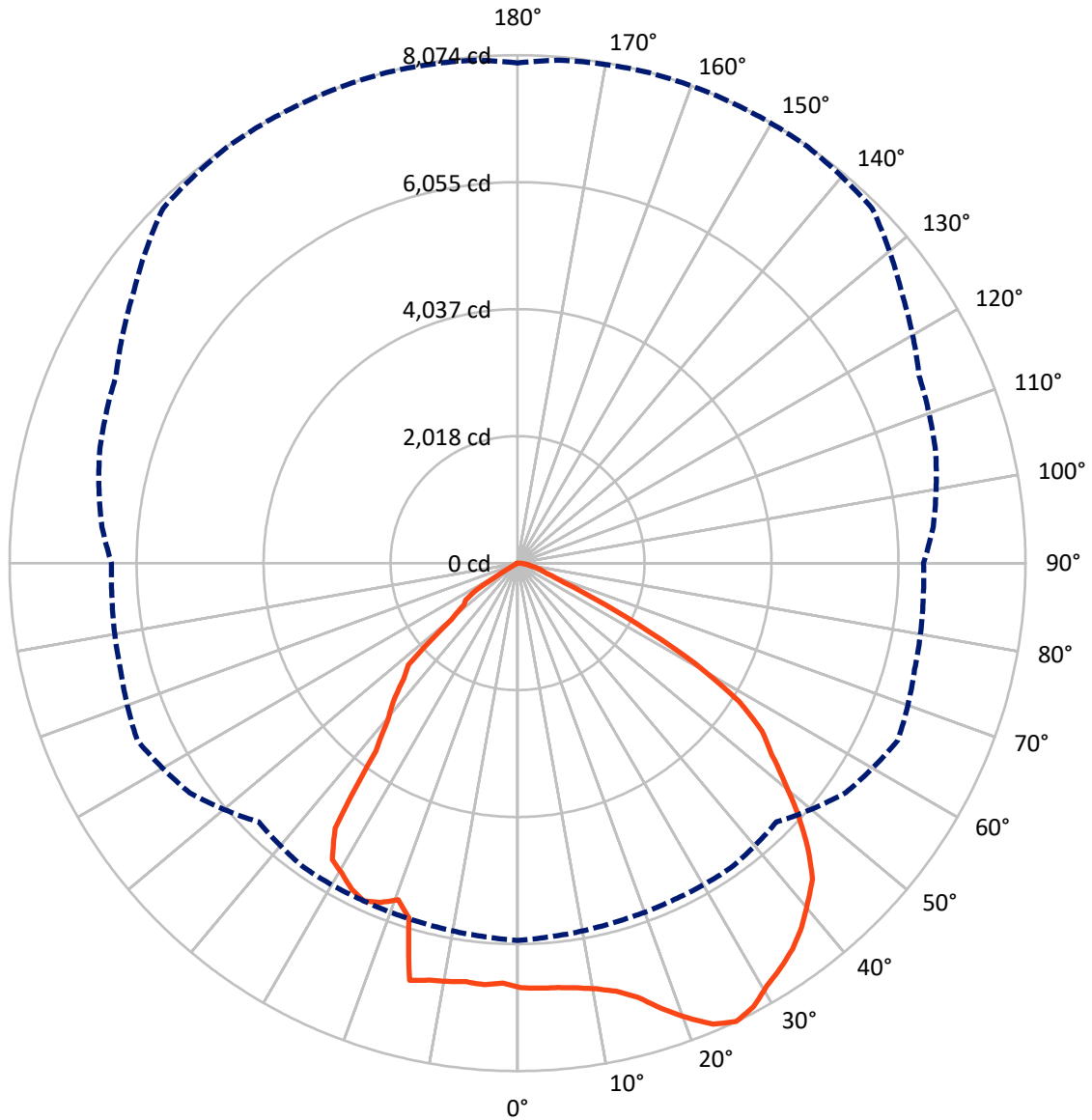
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 16.9 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	9684.3	0.0	9684.3
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	5958.2	0.0	5958.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	15642.4	0.0	15642.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	647.5	4.1
10°-20°	1977.2	12.6
20°-30°	3125.8	20.0
30°-40°	3530.8	22.6
40°-50°	3306.7	21.1
50°-60°	2279.7	14.6
60°-70°	612.5	3.9
70°-80°	127.6	0.8
80°-90°	34.5	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°	15642.4	100.0
0°-180°	15642.4	100.0



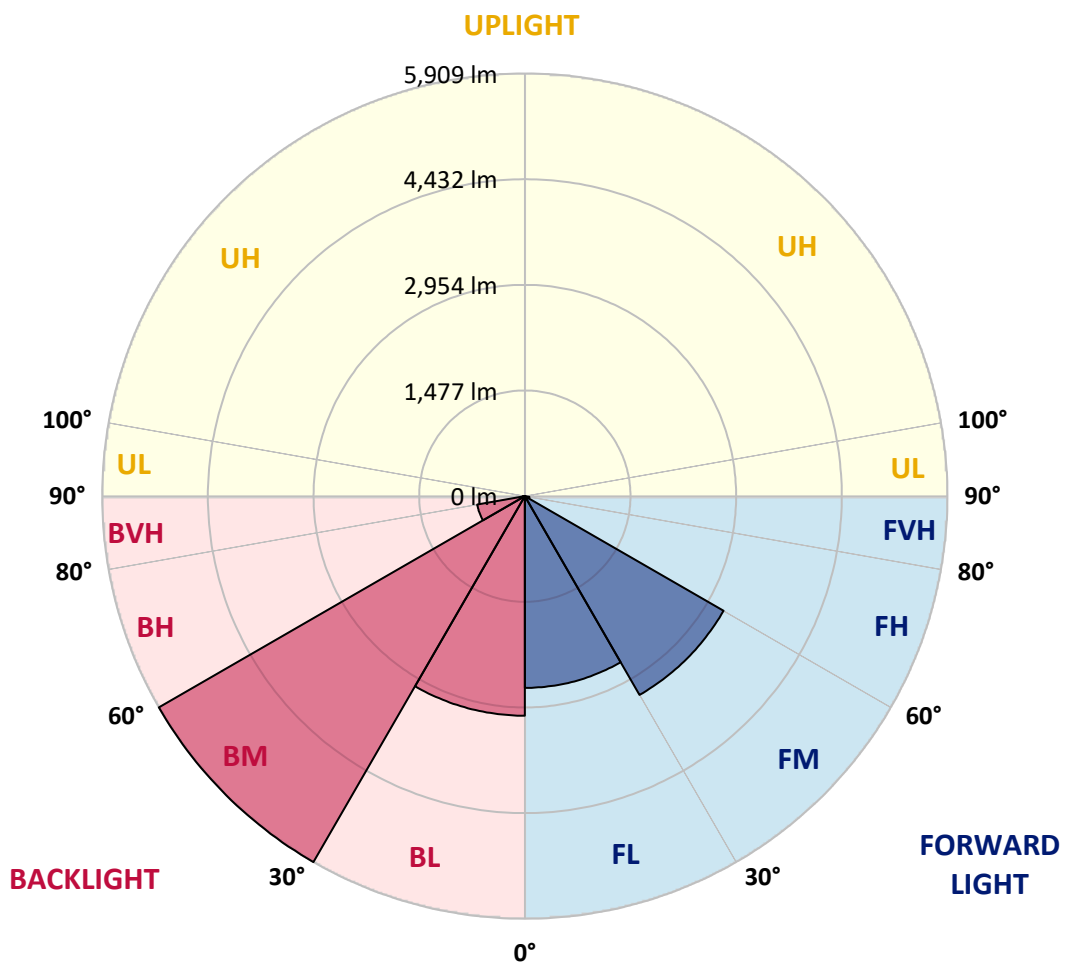
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2680.6	17.1			
FM	(30°-60°)	3208.6	20.5			
FH	(60°-80°)	64.3	0.4			G0/660
FVH	(80°-90°)	4.6	0.0			G0/10
BL	(0°-30°)	3069.9	19.6	B4/5000		
BM	(30°-60°)	5908.7	37.8	B4/8500		
BH	(60°-80°)	675.8	4.3	B2/1000		G2/1000
BVH	(80°-90°)	29.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6749.4	6749.4	6749.4	6749.4	6749.4	6749.4	6749.4	6749.4	6749.4	6749.4
2.5°	6779.3	6735.6	6694.2	6680.4	6737.9	6800.0	6760.9	6763.2	6749.4	6774.7
5°	6829.9	6770.1	6742.5	6721.8	6731.0	6795.4	6740.2	6760.9	6737.9	6767.8
7.5°	6811.5	6770.1	6742.5	6703.4	6733.3	6809.2	6756.3	6758.6	6747.1	6774.7
10°	6800.0	6770.1	6735.6	6740.2	6774.7	6839.1	6797.7	6820.7	6804.6	6820.7
12.5°	6827.6	6795.4	6777.0	6777.0	6806.9	6880.4	6859.8	6880.4	6873.6	6887.3
15°	6567.8	6597.7	6772.4	6850.6	6910.3	6983.9	6974.7	6995.4	7000.0	7020.7
17.5°	5540.2	5510.3	5496.5	5898.8	6967.8	7195.4	7188.5	7186.2	7163.2	7147.1
20°	5675.9	5664.4	5648.3	5678.2	5797.7	7305.7	7351.7	7069.0	6986.2	6979.3
22.5°	5891.9	5873.6	5813.8	5816.1	5852.9	6351.7	7124.1	6866.7	6839.1	6823.0
25°	5997.7	5960.9	5912.6	5898.8	5910.3	5818.4	6363.2	6669.0	6533.3	6471.3
27.5°	5811.5	5813.8	5774.7	5811.5	5767.8	5354.0	5121.8	6282.7	6278.2	6250.6
30°	5671.3	5664.4	5618.4	5664.4	5363.2	4901.1	4802.3	5859.8	5811.5	5774.7
32.5°	5241.4	5246.0	5379.3	5558.6	5064.4	4698.8	4400.0	5234.5	5691.9	5671.3
35°	3749.4	3758.6	4232.2	5117.2	4611.5	4296.5	4273.6	4524.1	5503.4	5512.6
37.5°	3609.2	3609.2	3597.7	3742.5	4255.2	4133.3	4179.3	4154.0	5041.4	5064.4
40°	3508.0	3487.4	3471.3	3243.7	2958.6	4018.4	4050.6	3935.6	4765.5	4770.1
42.5°	3386.2	3363.2	3367.8	2947.1	2648.3	3733.3	3643.7	3489.6	4305.7	4310.3
45°	3163.2	3202.3	3229.9	2579.3	2556.3	2666.7	3360.9	3264.4	3995.4	4080.5
47.5°	1609.2	1643.7	2521.8	2372.4	2425.3	2370.1	2839.1	2841.4	3324.1	3606.9
50°	1459.8	1450.6	1452.9	1383.9	2239.1	1917.2	2052.9	2604.6	2662.1	3066.7
52.5°	1360.9	1358.6	1218.4	1082.8	1406.9	1687.4	1489.7	1885.1	1979.3	2597.7
55°	1006.9	1080.5	960.9	1018.4	880.5	1351.7	1344.8	1701.1	1733.3	2082.8
57.5°	9.2	11.5	27.6	774.7	609.2	675.9	928.7	1160.9	1218.4	1623.0
60°	2.3	4.6	11.5	23.0	395.4	416.1	620.7	671.3	756.3	967.8
62.5°	0.0	0.0	4.6	11.5	20.7	170.1	197.7	216.1	333.3	494.3
65°	0.0	0.0	2.3	6.9	11.5	27.6	48.3	101.1	144.8	179.3
67.5°	0.0	0.0	2.3	4.6	9.2	13.8	27.6	39.1	62.1	105.7
70°	0.0	0.0	2.3	4.6	6.9	11.5	18.4	27.6	36.8	52.9
72.5°	0.0	0.0	2.3	4.6	4.6	13.8	13.8	20.7	27.6	34.5
75°	0.0	0.0	2.3	2.3	4.6	9.2	13.8	16.1	18.4	27.6
77.5°	0.0	0.0	2.3	4.6	6.9	9.2	11.5	18.4	16.1	16.1
80°	0.0	0.0	2.3	6.9	6.9	11.5	13.8	18.4	11.5	11.5
82.5°	0.0	0.0	2.3	9.2	6.9	23.0	23.0	25.3	9.2	9.2
85°	0.0	0.0	6.9	4.6	13.8	23.0	20.7	13.8	11.5	6.9
87.5°	0.0	0.0	2.3	2.3	4.6	6.9	16.1	13.8	4.6	4.6
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°
6749.4	0°	6749.4	6749.4	6749.4	6749.4	6749.4	6749.4	6749.4	6749.4	6749.4
6708.0	2.5°	6800.0	6770.1	6832.2	6825.3	6795.4	6781.6	6765.5	6751.7	6650.6
6712.6	5°	6802.3	6756.3	6832.2	6818.4	6813.8	6790.8	6777.0	6797.7	6705.7
6731.0	7.5°	6802.3	6756.3	6839.1	6843.7	6836.8	6818.4	6816.1	6829.9	6754.0
6763.2	10°	6848.3	6829.9	6898.8	6905.7	6896.5	6891.9	6880.4	6871.3	6790.8
6873.6	12.5°	6944.8	6908.0	6986.2	7006.9	7000.0	7011.5	6983.9	6997.7	6914.9
6986.2	15°	7062.1	7064.4	7124.1	7170.1	7165.5	7202.3	7160.9	7197.7	7137.9
7114.9	17.5°	7241.4	7266.7	7351.7	7420.7	7446.0	7473.6	7446.0	7457.5	7372.4
6972.4	20°	7052.9	7147.1	7556.3	7682.7	7735.6	7760.9	7714.9	7728.7	7643.7
6797.7	22.5°	6882.7	7004.6	7367.8	7763.2	7926.4	7977.0	7960.9	7958.6	7926.4
6452.9	25°	6632.2	6878.2	7041.4	7459.8	7972.4	8064.4	8073.6	8071.3	8023.0
6241.4	27.5°	6324.1	6379.3	6802.3	7057.5	7650.6	8000.0	7986.2	7919.5	7855.2
5802.3	30°	5931.0	6181.6	6372.4	6779.3	7234.5	7802.3	7802.3	7751.7	7685.0
5646.0	32.5°	5731.0	6055.2	6232.2	6379.3	6767.8	7581.6	7673.6	7620.7	7567.8
5524.1	35°	5625.3	5673.6	6087.3	6220.7	6549.4	7156.3	7528.7	7475.9	7436.8
5200.0	37.5°	5393.1	5505.7	5698.8	6055.2	6156.3	6809.2	7335.6	7308.0	7262.1
4779.3	40°	4875.9	5177.0	5473.6	5811.5	5917.2	6363.2	7101.1	7112.6	7050.6
4331.0	42.5°	4570.1	4774.7	5239.1	5466.7	5751.7	6075.9	6873.6	6891.9	6848.3
4103.4	45°	4211.5	4439.1	4765.5	5179.3	5567.8	5680.5	6471.3	6664.4	6627.6
3650.6	47.5°	3882.8	4066.7	4466.7	4885.0	5314.9	5298.8	6009.2	6372.4	6321.8
3303.4	50°	3416.1	3737.9	3926.4	4310.3	4951.7	4995.4	5517.2	6029.9	5988.5
2806.9	52.5°	2880.5	3285.1	3646.0	3997.7	4583.9	4687.3	5059.8	5680.5	5652.9
2144.8	55°	2517.2	2811.5	3218.4	3501.1	4137.9	4413.8	4717.2	5347.1	5333.3
1763.2	57.5°	1790.8	2358.6	2694.2	3089.7	3425.3	3924.1	4149.4	4669.0	4540.2
977.0	60°	1213.8	1480.5	1889.7	2314.9	2540.2	3039.1	3248.3	3664.4	3629.9
583.9	62.5°	641.4	887.4	1179.3	1393.1	1556.3	2041.4	2128.7	2577.0	2565.5
234.5	65°	282.8	374.7	639.1	749.4	917.2	1142.5	1218.4	1379.3	1340.2
114.9	67.5°	147.1	223.0	360.9	443.7	558.6	643.7	705.7	756.3	788.5
75.9	70°	89.7	163.2	223.0	308.0	383.9	452.9	501.1	570.1	611.5
39.1	72.5°	66.7	103.4	154.0	236.8	278.2	358.6	406.9	457.5	494.3
32.2	75°	36.8	69.0	124.1	186.2	223.0	292.0	335.6	370.1	381.6
18.4	77.5°	23.0	52.9	103.4	144.8	174.7	236.8	225.3	257.5	285.1
13.8	80°	16.1	39.1	80.5	119.5	121.8	151.7	179.3	206.9	225.3
9.2	82.5°	11.5	32.2	59.8	92.0	80.5	117.2	140.2	160.9	117.2
6.9	85°	9.2	23.0	29.9	55.2	46.0	82.8	71.3	69.0	46.0
4.6	87.5°	6.9	11.5	20.7	25.3	18.4	18.4	23.0	27.6	23.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6749.4
6581.6
6627.6
6666.7
6724.1
6841.4
7039.1
7298.8
7583.9
7823.0
7949.4
7804.6
7659.8
7524.1
7381.6
7216.1
7036.8
6843.7
6632.2
6358.6
5995.4
5671.3
5349.4
4526.4
3632.2
2567.8
1324.1
788.5
613.8
501.1
374.7
289.7
227.6
85.1
46.0
23.0
0.0

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