

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: P638320

Luminaire Tested: **IFLD-M-SA4C-722-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638320
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-722-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15435.6 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

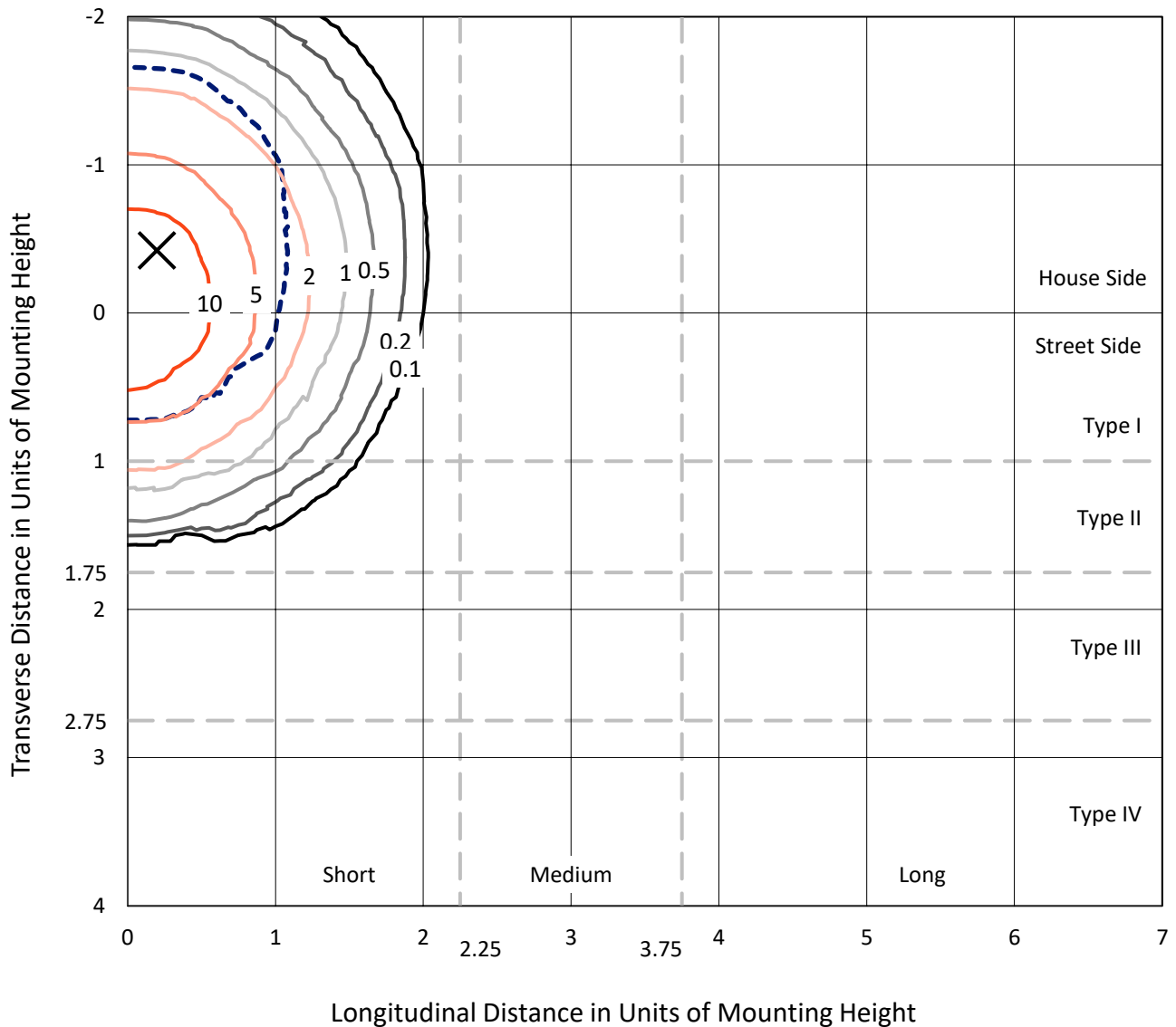
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

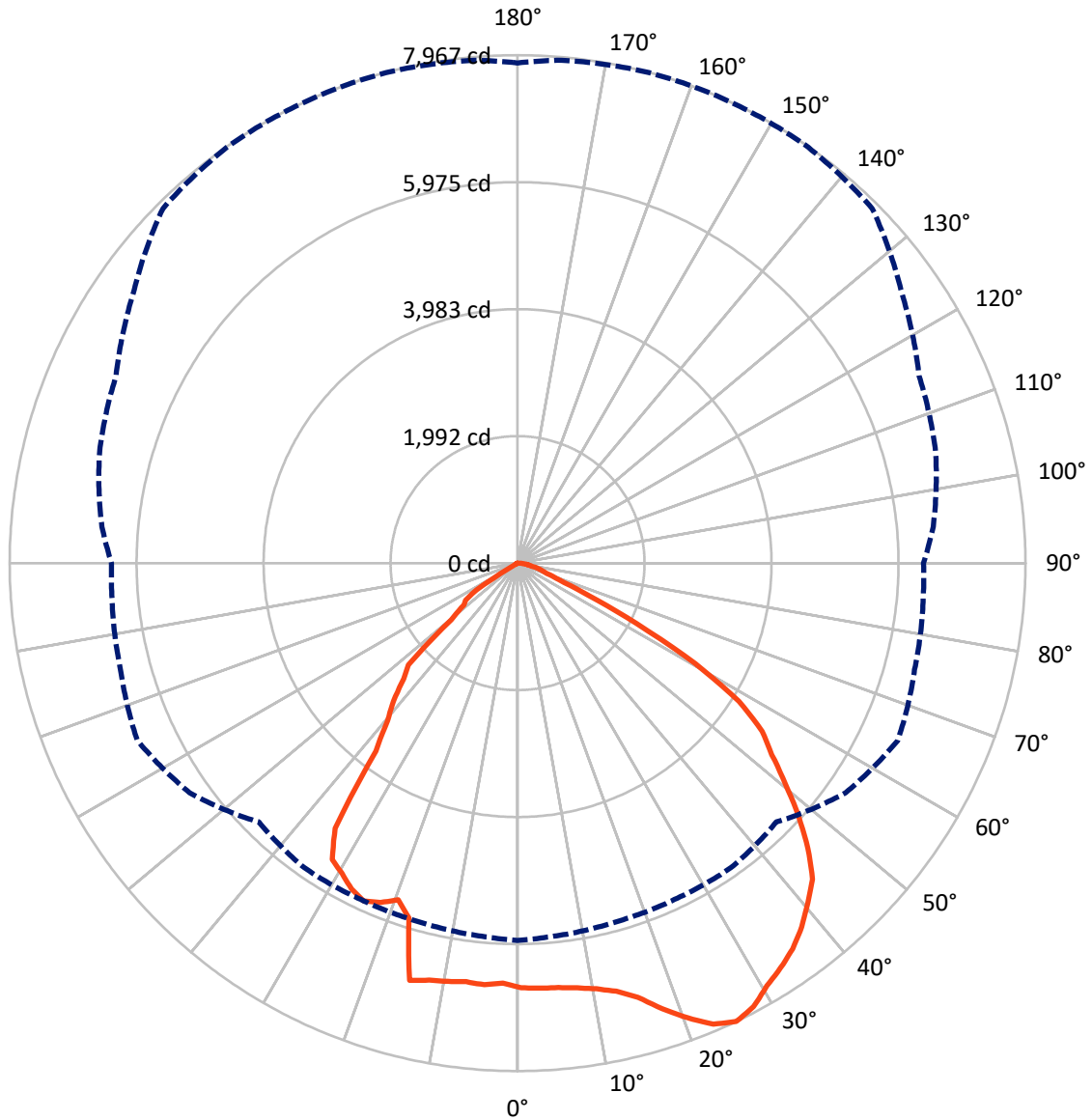
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 16.7 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	9556.2	0.0	9556.2
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	5879.4	0.0	5879.4
	% Fixture	38.1	0.0	38.1
Total	Lumens	15435.6	0.0	15435.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	639.0	4.1
10°-20°	1951.0	12.6
20°-30°	3084.5	20.0
30°-40°	3484.2	22.6
40°-50°	3263.0	21.1
50°-60°	2249.6	14.6
60°-70°	604.4	3.9
70°-80°	126.0	0.8
80°-90°	34.1	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°	15435.6	100.0
0°-180°	15435.6	100.0



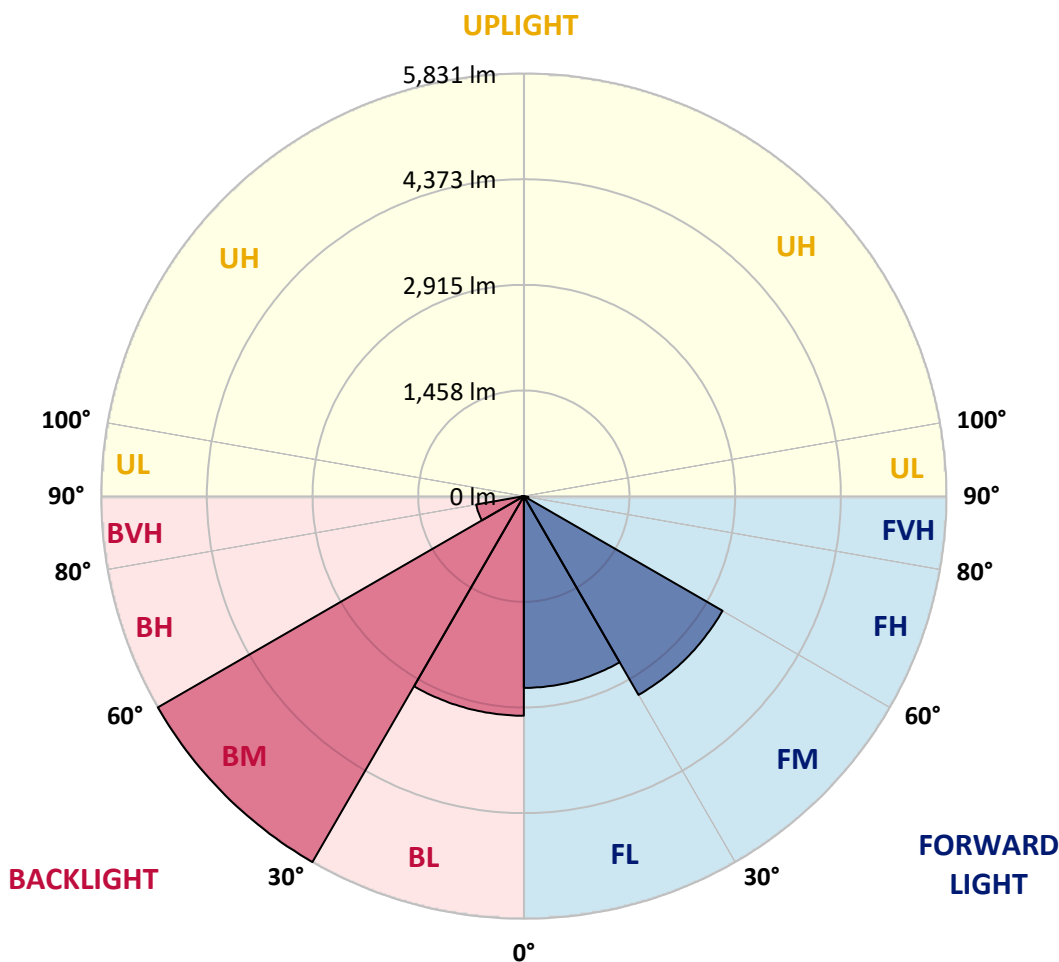
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2645.2	17.1			
FM (30°-60°)	3166.2	20.5			
FH (60°-80°)	63.4	0.4			G0/660
FVH (80°-90°)	4.6	0.0			G0/10
BL (0°-30°)	3029.3	19.6	B4/5000		
BM (30°-60°)	5830.6	37.8	B4/8500		
BH (60°-80°)	666.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	29.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6660.2	6660.2	6660.2	6660.2	6660.2	6660.2	6660.2	6660.2	6660.2	6660.2
2.5°	6689.7	6646.6	6605.7	6592.1	6648.8	6710.1	6671.5	6673.8	6660.2	6685.1
5°	6739.6	6680.6	6653.4	6633.0	6642.0	6705.6	6651.1	6671.5	6648.8	6678.3
7.5°	6721.4	6680.6	6653.4	6614.8	6644.3	6719.2	6667.0	6669.3	6657.9	6685.1
10°	6710.1	6680.6	6646.6	6651.1	6685.1	6748.7	6707.8	6730.5	6714.6	6730.5
12.5°	6737.3	6705.6	6687.4	6687.4	6716.9	6789.5	6769.1	6789.5	6782.7	6796.3
15°	6481.0	6510.5	6682.9	6760.0	6819.0	6891.6	6882.5	6902.9	6907.4	6927.9
17.5°	5467.0	5437.5	5423.9	5820.9	6875.7	7100.3	7093.5	7091.2	7068.5	7052.6
20°	5600.8	5589.5	5573.6	5603.1	5721.0	7209.1	7254.5	6975.5	6893.8	6887.0
22.5°	5814.0	5795.9	5736.9	5739.2	5775.5	6267.7	7029.9	6775.9	6748.7	6732.8
25°	5918.4	5882.1	5834.5	5820.9	5832.2	5741.5	6279.1	6580.8	6446.9	6385.7
27.5°	5734.7	5736.9	5698.4	5734.7	5691.6	5283.2	5054.1	6199.7	6195.2	6167.9
30°	5596.3	5589.5	5544.1	5589.5	5292.3	4836.3	4738.8	5782.3	5734.7	5698.4
32.5°	5172.1	5176.6	5308.2	5485.1	4997.4	4636.7	4341.8	5165.3	5616.7	5596.3
35°	3699.8	3708.9	4176.2	5049.6	4550.5	4239.7	4217.1	4464.3	5430.7	5439.8
37.5°	3561.5	3561.5	3550.1	3693.0	4198.9	4078.7	4124.1	4099.1	4974.7	4997.4
40°	3461.7	3441.2	3425.4	3200.8	2919.5	3965.3	3997.0	3883.6	4702.5	4707.0
42.5°	3341.4	3318.7	3323.3	2908.2	2613.3	3684.0	3595.5	3443.5	4248.8	4253.4
45°	3121.4	3160.0	3187.2	2545.2	2522.5	2631.4	3316.5	3221.2	3942.6	4026.5
47.5°	1587.9	1621.9	2488.5	2341.0	2393.2	2338.8	2801.5	2803.8	3280.2	3559.2
50°	1440.5	1431.4	1433.7	1365.6	2209.5	1891.9	2025.7	2570.2	2626.9	3026.1
52.5°	1342.9	1340.7	1202.3	1068.4	1388.3	1665.0	1470.0	1860.1	1953.1	2563.4
55°	993.6	1066.2	948.2	1004.9	868.8	1333.9	1327.0	1678.7	1710.4	2055.2
57.5°	9.1	11.3	27.2	764.5	601.1	666.9	916.5	1145.6	1202.3	1601.5
60°	2.3	4.5	11.3	22.7	390.2	410.6	612.5	662.4	746.3	955.0
62.5°	0.0	0.0	4.5	11.3	20.4	167.9	195.1	213.2	328.9	487.7
65°	0.0	0.0	2.3	6.8	11.3	27.2	47.6	99.8	142.9	176.9
67.5°	0.0	0.0	2.3	4.5	9.1	13.6	27.2	38.6	61.2	104.3
70°	0.0	0.0	2.3	4.5	6.8	11.3	18.1	27.2	36.3	52.2
72.5°	0.0	0.0	2.3	4.5	4.5	13.6	13.6	20.4	27.2	34.0
75°	0.0	0.0	2.3	2.3	4.5	9.1	13.6	15.9	18.1	27.2
77.5°	0.0	0.0	2.3	4.5	6.8	9.1	11.3	18.1	15.9	15.9
80°	0.0	0.0	2.3	6.8	6.8	11.3	13.6	18.1	11.3	11.3
82.5°	0.0	0.0	2.3	9.1	6.8	22.7	22.7	25.0	9.1	9.1
85°	0.0	0.0	6.8	4.5	13.6	22.7	20.4	13.6	11.3	6.8
87.5°	0.0	0.0	2.3	2.3	4.5	6.8	15.9	13.6	4.5	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°
6660.2	0°	6660.2	6660.2	6660.2	6660.2	6660.2	6660.2	6660.2	6660.2	6660.2
6619.4	2.5°	6710.1	6680.6	6741.8	6735.0	6705.6	6691.9	6676.1	6662.5	6562.6
6623.9	5°	6712.4	6667.0	6741.8	6728.2	6723.7	6701.0	6687.4	6707.8	6617.1
6642.0	7.5°	6712.4	6667.0	6748.7	6753.2	6746.4	6728.2	6726.0	6739.6	6664.7
6673.8	10°	6757.7	6739.6	6807.6	6814.4	6805.4	6800.8	6789.5	6780.4	6701.0
6782.7	12.5°	6853.0	6816.7	6893.8	6914.3	6907.4	6918.8	6891.6	6905.2	6823.5
6893.8	15°	6968.7	6971.0	7029.9	7075.3	7070.8	7107.1	7066.2	7102.5	7043.6
7020.9	17.5°	7145.6	7170.6	7254.5	7322.6	7347.5	7374.7	7347.5	7358.9	7274.9
6880.2	20°	6959.6	7052.6	7456.4	7581.2	7633.4	7658.3	7612.9	7626.5	7542.6
6707.8	22.5°	6791.8	6912.0	7270.4	7660.6	7821.6	7871.5	7855.7	7853.4	7821.6
6367.6	25°	6544.5	6787.2	6948.3	7361.1	7867.0	7957.7	7966.8	7964.5	7916.9
6158.9	27.5°	6240.5	6295.0	6712.4	6964.2	7549.4	7894.2	7880.6	7814.8	7751.3
5725.6	30°	5852.6	6099.9	6288.2	6689.7	7138.8	7699.1	7699.1	7649.2	7583.4
5571.3	32.5°	5655.3	5975.1	6149.8	6295.0	6678.3	7481.4	7572.1	7519.9	7467.8
5451.1	35°	5550.9	5598.5	6006.9	6138.4	6462.8	7061.7	7429.2	7377.0	7338.5
5131.2	37.5°	5321.8	5432.9	5623.5	5975.1	6074.9	6719.2	7238.6	7211.4	7166.0
4716.1	40°	4811.4	5108.6	5401.2	5734.7	5839.0	6279.1	7007.3	7018.6	6957.4
4273.8	42.5°	4509.7	4711.6	5169.8	5394.4	5675.7	5995.5	6782.7	6800.8	6757.7
4049.2	45°	4155.8	4380.4	4702.5	5110.8	5494.2	5605.4	6385.7	6576.3	6540.0
3602.3	47.5°	3831.4	4012.9	4407.6	4820.5	5244.7	5228.8	5929.7	6288.2	6238.3
3259.8	50°	3370.9	3688.5	3874.5	4253.4	4886.3	4929.4	5444.3	5950.2	5909.3
2769.8	52.5°	2842.4	3241.6	3597.8	3944.8	4523.3	4625.4	4992.9	5605.4	5578.1
2116.5	55°	2484.0	2774.3	3175.8	3454.9	4083.2	4355.4	4654.9	5276.4	5262.8
1739.9	57.5°	1767.1	2327.4	2658.6	3048.8	3380.0	3872.3	4094.6	4607.2	4480.2
964.1	60°	1197.7	1460.9	1864.7	2284.3	2506.6	2998.9	3205.3	3615.9	3581.9
576.2	62.5°	632.9	875.6	1163.7	1374.7	1535.7	2014.4	2100.6	2542.9	2531.6
231.4	65°	279.0	369.8	630.6	739.5	905.1	1127.4	1202.3	1361.1	1322.5
113.4	67.5°	145.2	220.0	356.1	437.8	551.2	635.2	696.4	746.3	778.1
74.9	70°	88.5	161.1	220.0	304.0	378.8	446.9	494.5	562.6	603.4
38.6	72.5°	65.8	102.1	152.0	233.7	274.5	353.9	401.5	451.4	487.7
31.8	75°	36.3	68.1	122.5	183.7	220.0	288.1	331.2	365.2	376.6
18.1	77.5°	22.7	52.2	102.1	142.9	172.4	233.7	222.3	254.1	281.3
13.6	80°	15.9	38.6	79.4	118.0	120.2	149.7	176.9	204.2	222.3
9.1	82.5°	11.3	31.8	59.0	90.7	79.4	115.7	138.4	158.8	115.7
6.8	85°	9.1	22.7	29.5	54.4	45.4	81.7	70.3	68.1	45.4
4.5	87.5°	6.8	11.3	20.4	25.0	18.1	18.1	22.7	27.2	22.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6660.2
6494.6
6540.0
6578.5
6635.2
6750.9
6946.0
7202.3
7483.6
7719.6
7844.3
7701.4
7558.5
7424.7
7284.0
7120.7
6943.7
6753.2
6544.5
6274.5
5916.1
5596.3
5278.7
4466.6
3584.2
2533.9
1306.6
778.1
605.7
494.5
369.8
285.8
224.6
83.9
45.4
22.7
0.0

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