

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: P638379

Luminaire Tested: **IFLD-M-SA4D-730-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638379
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-730-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20996.1 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

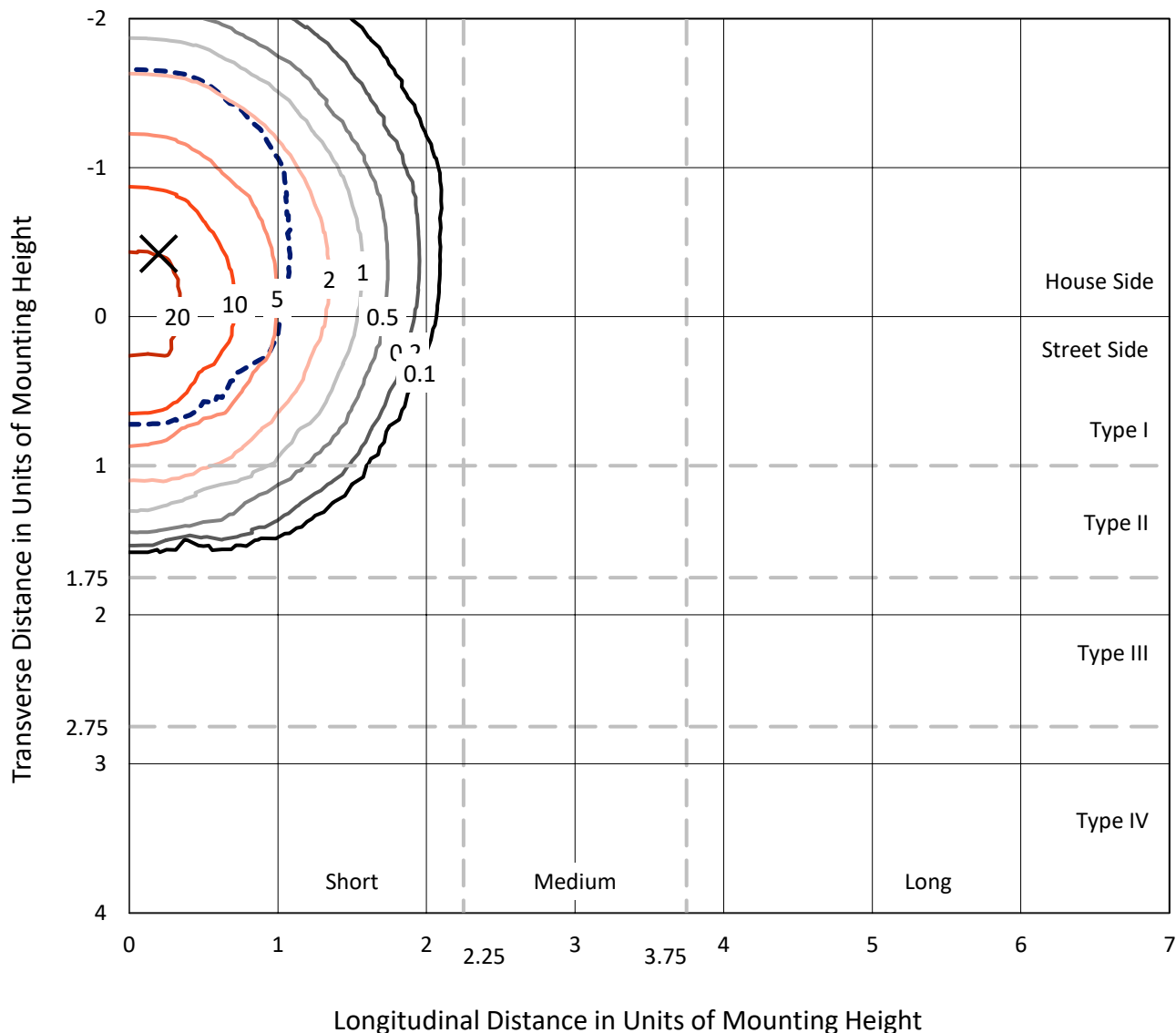
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

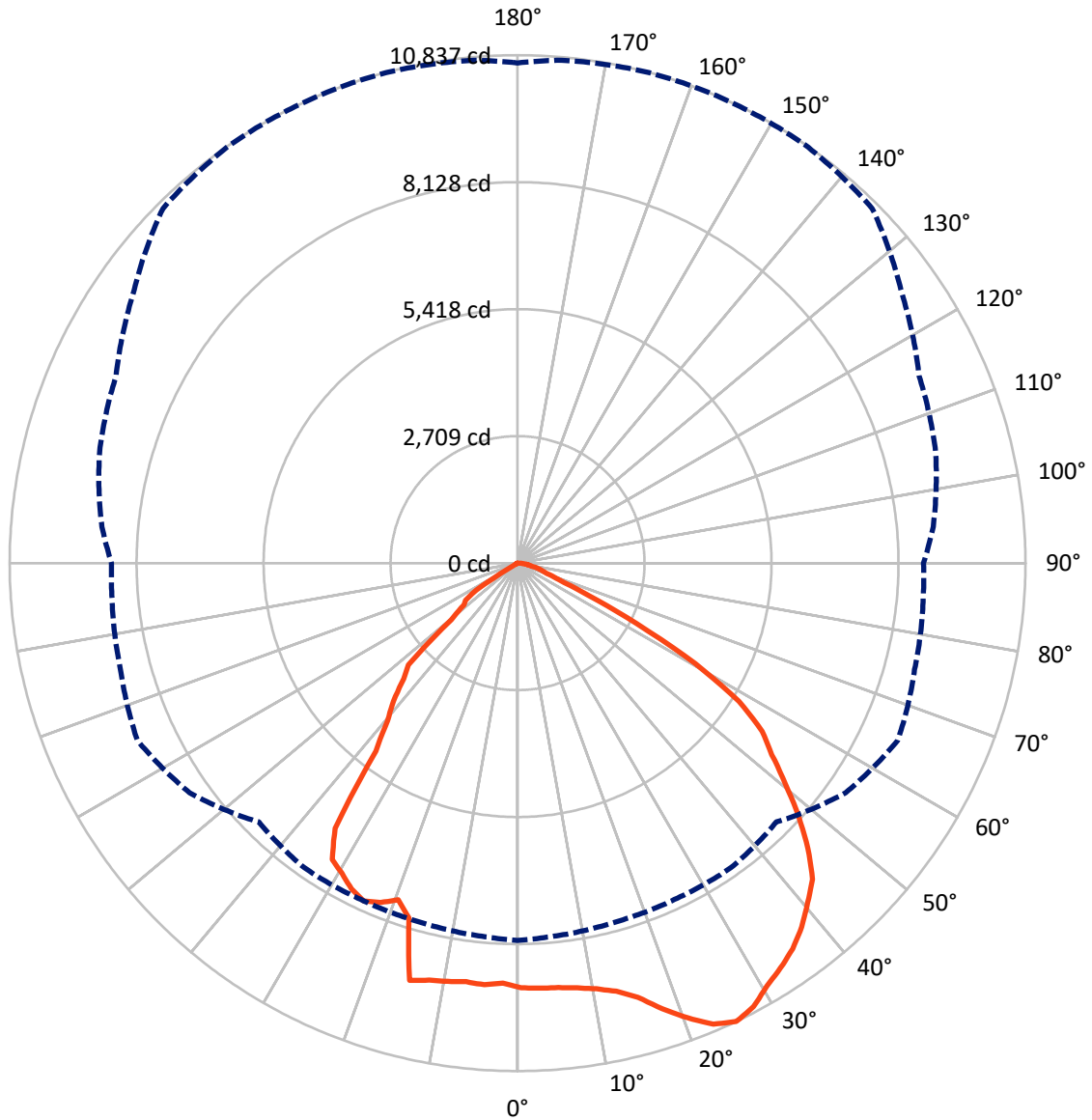
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 22.6 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	12998.7	0.0	12998.7
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	7997.4	0.0	7997.4
	% Fixture	38.1	0.0	38.1
Total	Lumens	20996.1	0.0	20996.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	869.1	4.1
10°-20°	2653.9	12.6
20°-30°	4195.6	20.0
30°-40°	4739.3	22.6
40°-50°	4438.4	21.1
50°-60°	3060.0	14.6
60°-70°	822.1	3.9
70°-80°	171.3	0.8
80°-90°	46.4	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°	20996.1	100.0
0°-180°	20996.1	100.0

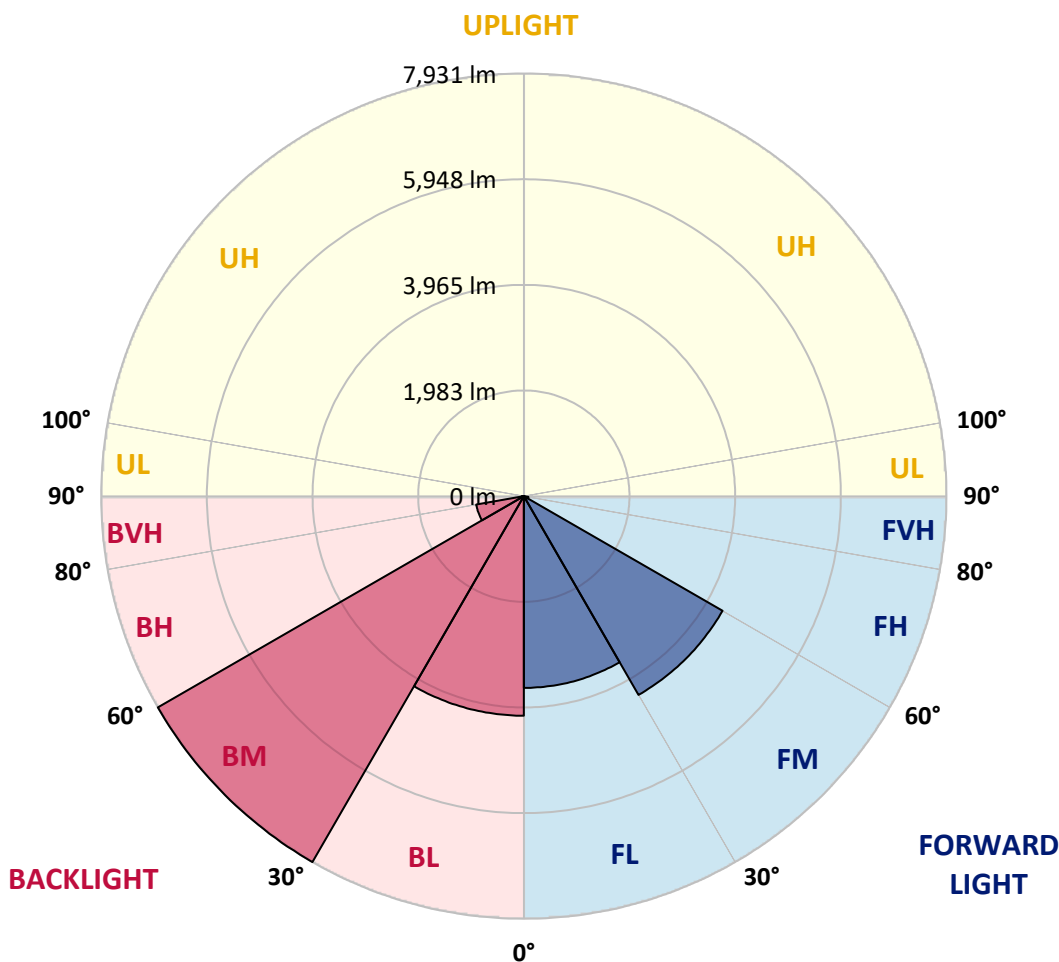


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3598.1	17.1			
FM (30°-60°)	4306.8	20.5			
FH (60°-80°)	86.3	0.4			G0/660
FVH (80°-90°)	6.2	0.0			G0/10
BL (0°-30°)	4120.5	19.6	B4/5000		
BM (30°-60°)	7930.9	37.8	B4/8500		
BH (60°-80°)	907.1	4.3	B2/1000		G2/1000
BVH (80°-90°)	40.1	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°	9059.4	9059.4	9059.4	9059.4	9059.4	9059.4	9059.4	9059.4	9059.4	9059.4
2.5°	9099.5	9040.9	8985.4	8966.9	9044.0	9127.3	9074.9	9077.9	9059.4	9093.4
5°	9167.4	9087.2	9050.2	9022.4	9034.7	9121.1	9047.1	9074.9	9044.0	9084.1
7.5°	9142.7	9087.2	9050.2	8997.7	9037.8	9139.7	9068.7	9071.8	9056.3	9093.4
10°	9127.3	9087.2	9040.9	9047.1	9093.4	9179.8	9124.2	9155.1	9133.5	9155.1
12.5°	9164.3	9121.1	9096.5	9096.5	9136.6	9235.3	9207.5	9235.3	9226.1	9244.6
15°	8815.7	8855.8	9090.3	9195.2	9275.4	9374.2	9361.8	9389.6	9395.8	9423.5
17.5°	7436.4	7396.3	7377.8	7917.7	9352.6	9658.0	9648.8	9645.7	9614.8	9593.2
20°	7618.4	7603.0	7581.4	7621.5	7782.0	9806.2	9867.9	9488.3	9377.3	9368.0
22.5°	7908.5	7883.8	7803.6	7806.7	7856.0	8525.6	9562.4	9216.8	9179.8	9158.2
25°	8050.4	8001.1	7936.3	7917.7	7933.2	7809.7	8541.0	8951.4	8769.4	8686.1
27.5°	7800.5	7803.6	7751.1	7800.5	7741.9	7186.4	6874.8	8433.0	8426.9	8389.8
30°	7612.3	7603.0	7541.3	7603.0	7198.8	6578.6	6445.9	7865.3	7800.5	7751.1
32.5°	7035.3	7041.4	7220.4	7461.1	6797.7	6307.0	5905.9	7026.0	7640.0	7612.3
35°	5032.7	5045.0	5680.7	6868.6	6189.8	5767.1	5736.2	6072.5	7387.0	7399.4
37.5°	4844.4	4844.4	4829.0	5023.4	5711.5	5548.0	5609.7	5575.7	6766.8	6797.7
40°	4708.7	4680.9	4659.3	4353.8	3971.2	5393.7	5436.9	5282.6	6396.5	6402.7
42.5°	4545.1	4514.3	4520.5	3955.8	3554.7	5011.1	4890.7	4684.0	5779.4	5785.6
45°	4245.8	4298.3	4335.3	3462.1	3431.2	3579.3	4511.2	4381.6	5362.8	5477.0
47.5°	2159.9	2206.2	3384.9	3184.4	3255.3	3181.3	3810.8	3813.8	4461.8	4841.4
50°	1959.4	1947.0	1950.1	1857.6	3005.4	2573.4	2755.5	3496.0	3573.2	4116.2
52.5°	1826.7	1823.6	1635.4	1453.3	1888.4	2264.9	1999.5	2530.2	2656.7	3486.8
55°	1351.5	1450.2	1289.8	1366.9	1181.8	1814.4	1805.1	2283.4	2326.6	2795.6
57.5°	12.3	15.4	37.0	1039.9	817.7	907.2	1246.6	1558.2	1635.4	2178.5
60°	3.1	6.2	15.4	30.9	530.7	558.5	833.1	901.0	1015.2	1299.1
62.5°	0.0	0.0	6.2	15.4	27.8	228.3	265.4	290.0	447.4	663.4
65°	0.0	0.0	3.1	9.3	15.4	37.0	64.8	135.8	194.4	240.7
67.5°	0.0	0.0	3.1	6.2	12.3	18.5	37.0	52.5	83.3	141.9
70°	0.0	0.0	3.1	6.2	9.3	15.4	24.7	37.0	49.4	71.0
72.5°	0.0	0.0	3.1	6.2	6.2	18.5	18.5	27.8	37.0	46.3
75°	0.0	0.0	3.1	3.1	6.2	12.3	18.5	21.6	24.7	37.0
77.5°	0.0	0.0	3.1	6.2	9.3	12.3	15.4	24.7	21.6	21.6
80°	0.0	0.0	3.1	9.3	9.3	15.4	18.5	24.7	15.4	15.4
82.5°	0.0	0.0	3.1	12.3	9.3	30.9	30.9	33.9	12.3	12.3
85°	0.0	0.0	9.3	6.2	18.5	30.9	27.8	18.5	15.4	9.3
87.5°	0.0	0.0	3.1	3.1	6.2	9.3	21.6	18.5	6.2	6.2
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°
9059.4	0°	9059.4	9059.4	9059.4	9059.4	9059.4	9059.4	9059.4	9059.4	9059.4
9003.9	2.5°	9127.3	9087.2	9170.5	9161.3	9121.1	9102.6	9081.0	9062.5	8926.7
9010.1	5°	9130.4	9068.7	9170.5	9152.0	9145.8	9115.0	9096.5	9124.2	9000.8
9034.7	7.5°	9130.4	9068.7	9179.8	9185.9	9176.7	9152.0	9148.9	9167.4	9065.6
9077.9	10°	9192.1	9167.4	9260.0	9269.3	9256.9	9250.7	9235.3	9223.0	9115.0
9226.1	12.5°	9321.7	9272.3	9377.3	9405.0	9395.8	9411.2	9374.2	9392.7	9281.6
9377.3	15°	9479.1	9482.2	9562.4	9624.1	9617.9	9667.3	9611.8	9661.1	9580.9
9550.0	17.5°	9719.8	9753.7	9867.9	9960.4	9994.4	10031.4	9994.4	10009.8	9895.6
9358.7	20°	9466.7	9593.2	10142.5	10312.2	10383.2	10417.1	10355.4	10373.9	10259.7
9124.2	22.5°	9238.4	9401.9	9889.5	10420.2	10639.3	10707.2	10685.6	10682.5	10639.3
8661.4	25°	8902.1	9232.2	9451.3	10012.9	10701.0	10824.4	10836.8	10833.7	10768.9
8377.5	27.5°	8488.6	8562.6	9130.4	9472.9	10269.0	10738.0	10719.5	10630.0	10543.6
7788.1	30°	7960.9	8297.3	8553.4	9099.5	9710.5	10472.7	10472.7	10404.8	10315.3
7578.3	32.5°	7692.5	8127.6	8365.2	8562.6	9084.1	10176.4	10299.9	10228.9	10157.9
7414.8	35°	7550.6	7615.4	8170.8	8349.7	8791.0	9605.6	10105.5	10034.5	9982.0
6979.7	37.5°	7238.9	7390.1	7649.3	8127.6	8263.3	9139.7	9846.3	9809.2	9747.5
6415.0	40°	6544.6	6948.9	7346.9	7800.5	7942.4	8541.0	9531.5	9547.0	9463.6
5813.3	42.5°	6134.2	6408.9	7032.2	7337.6	7720.3	8155.3	9226.1	9250.7	9192.1
5507.9	45°	5652.9	5958.4	6396.5	6951.9	7473.4	7624.6	8686.1	8945.3	8895.9
4900.0	47.5°	5211.6	5458.5	5995.4	6557.0	7134.0	7112.4	8065.9	8553.4	8485.5
4434.1	50°	4585.3	5017.2	5270.3	5785.6	6646.5	6705.1	7405.5	8093.6	8038.1
3767.6	52.5°	3866.3	4409.4	4893.8	5365.9	6152.8	6291.6	6791.5	7624.6	7587.6
2878.9	55°	3378.8	3773.7	4319.9	4699.4	5554.1	5924.4	6331.7	7177.2	7158.7
2366.7	57.5°	2403.7	3165.9	3616.4	4147.1	4597.6	5267.2	5569.6	6266.9	6094.1
1311.4	60°	1629.2	1987.2	2536.4	3107.2	3409.6	4079.2	4360.0	4918.5	4872.2
783.8	62.5°	860.9	1191.1	1582.9	1869.9	2089.0	2740.0	2857.3	3459.0	3443.6
314.7	65°	379.5	503.0	857.8	1005.9	1231.2	1533.6	1635.4	1851.4	1798.9
154.3	67.5°	197.5	299.3	484.4	595.5	749.8	864.0	947.3	1015.2	1058.4
101.8	70°	120.3	219.1	299.3	413.5	515.3	607.9	672.7	765.2	820.8
52.5	72.5°	89.5	138.9	206.7	317.8	373.4	481.4	546.2	614.0	663.4
43.2	75°	49.4	92.6	166.6	249.9	299.3	391.9	450.5	496.8	512.2
24.7	77.5°	30.9	71.0	138.9	194.4	234.5	317.8	302.4	345.6	382.6
18.5	80°	21.6	52.5	108.0	160.5	163.5	203.7	240.7	277.7	302.4
12.3	82.5°	15.4	43.2	80.2	123.4	108.0	157.4	188.2	216.0	157.4
9.3	85°	12.3	30.9	40.1	74.1	61.7	111.1	95.7	92.6	61.7
6.2	87.5°	9.3	15.4	27.8	33.9	24.7	24.7	30.9	37.0	30.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9059.4
8834.2
8895.9
8948.3
9025.5
9182.9
9448.2
9796.9
10179.5
10500.4
10670.1
10475.7
10281.3
10099.3
9908.0
9685.8
9445.1
9185.9
8902.1
8534.9
8047.3
7612.3
7180.3
6075.6
4875.3
3446.7
1777.3
1058.4
823.9
672.7
503.0
388.8
305.5
114.2
61.7
30.9
0.0

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