

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: P638554

Luminaire Tested: **IFLD-M-SA4E-830-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638554
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-830-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21203.2 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

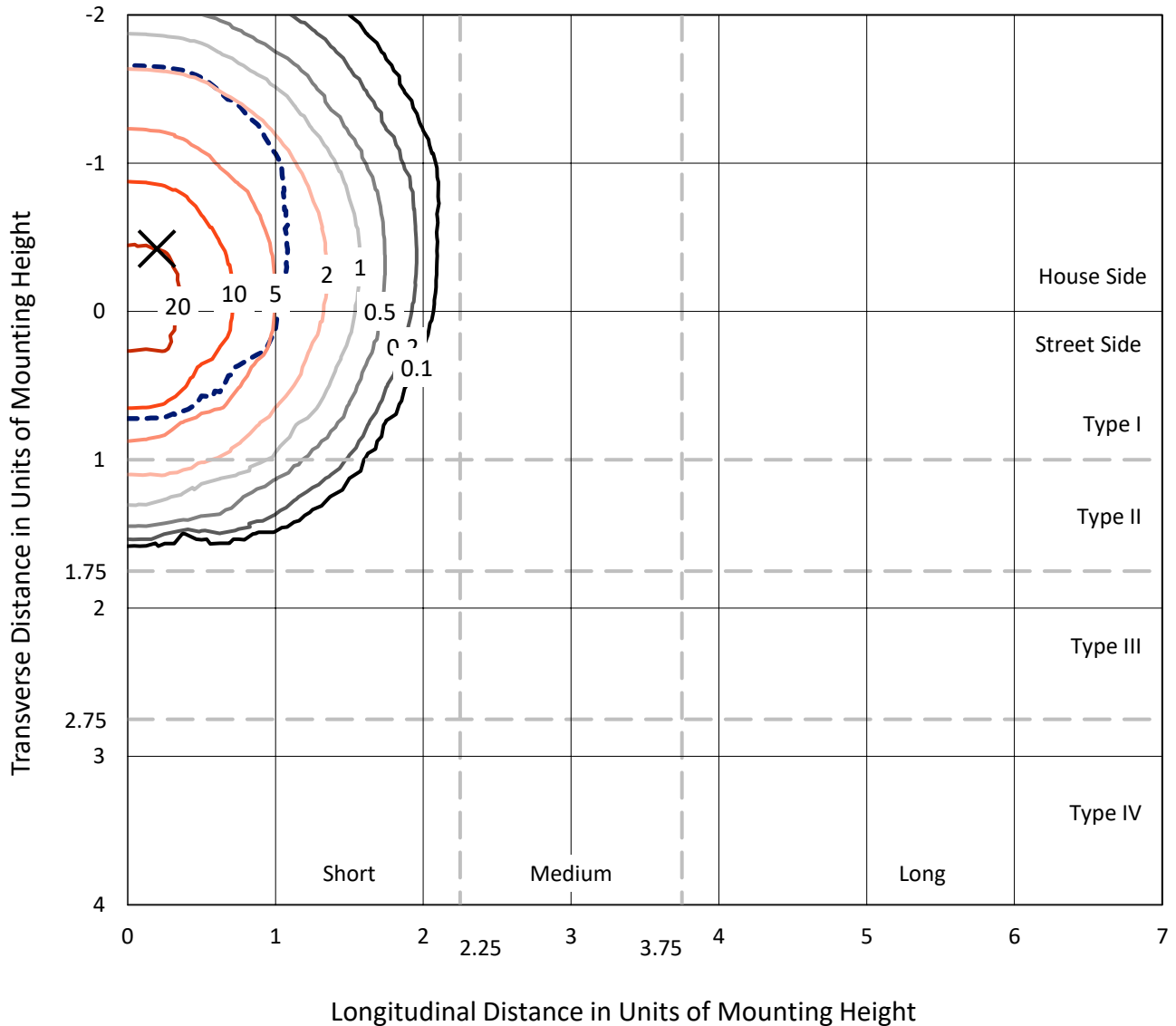
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

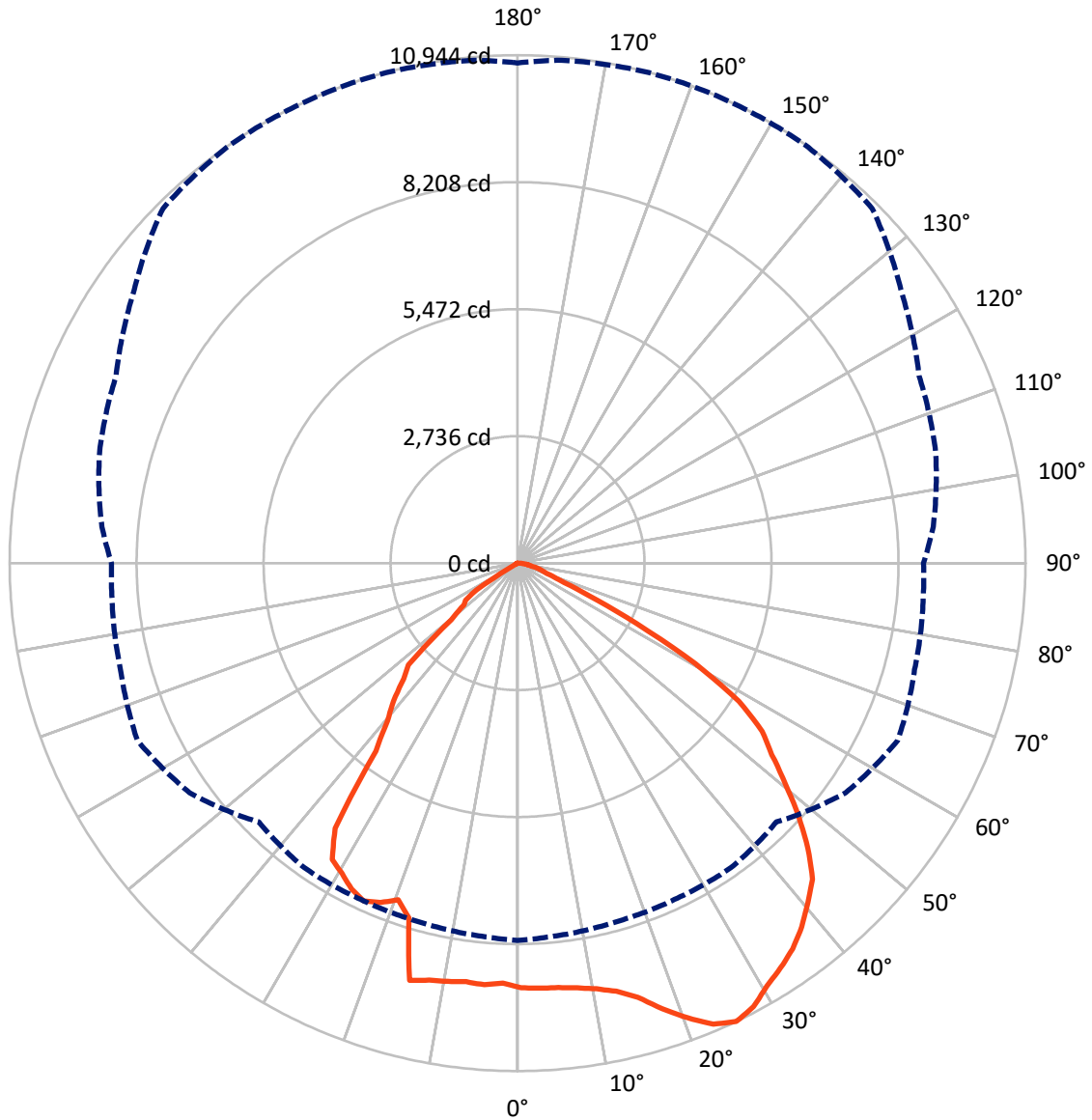
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 22.9 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	13127.0	0.0	13127.0
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	8076.2	0.0	8076.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	21203.2	0.0	21203.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	877.7	4.1
10°-20°	2680.0	12.6
20°-30°	4237.0	20.0
30°-40°	4786.0	22.6
40°-50°	4482.2	21.1
50°-60°	3090.2	14.6
60°-70°	830.2	3.9
70°-80°	173.0	0.8
80°-90°	46.8	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°	21203.2	100.0
0°-180°	21203.2	100.0



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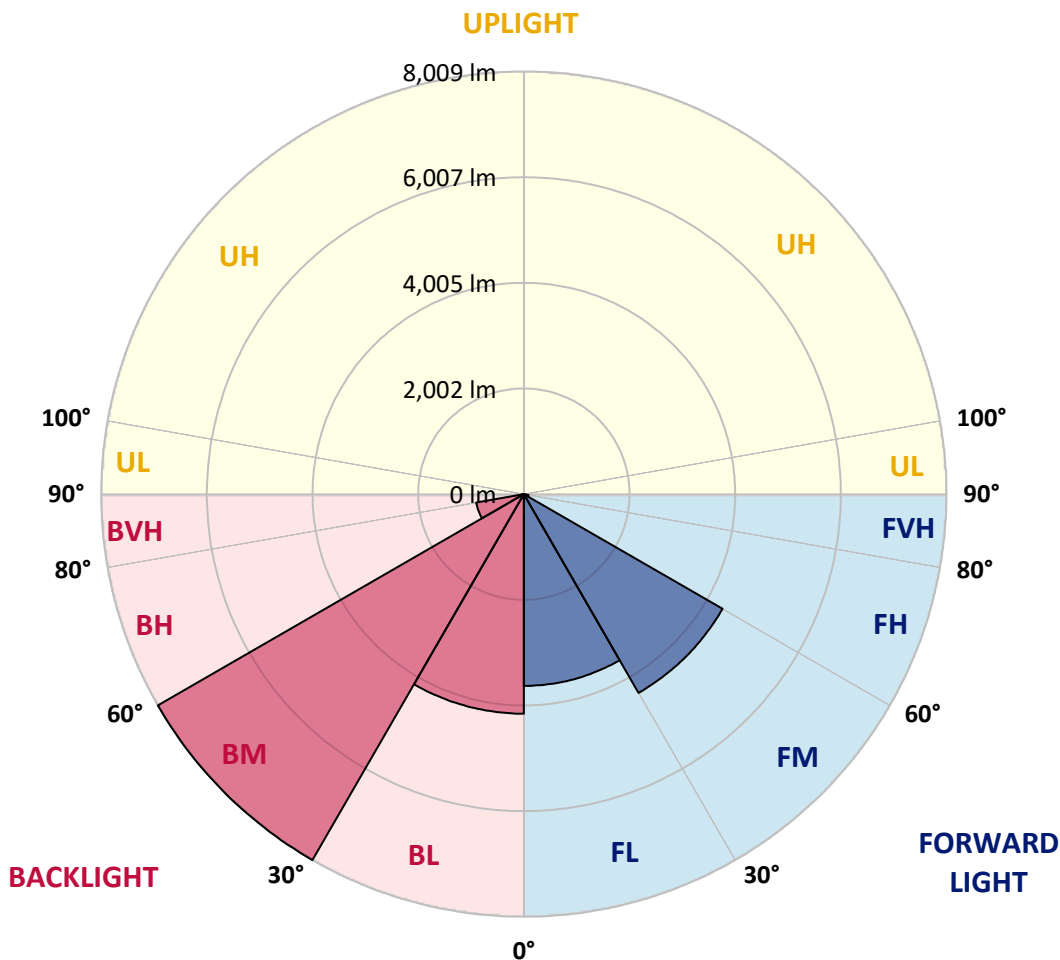
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3633.6	17.1			
FM (30°-60°)	4349.2	20.5			
FH (60°-80°)	87.2	0.4			G0/660
FVH (80°-90°)	6.3	0.0			G0/10
BL (0°-30°)	4161.2	19.6	B4/5000		
BM (30°-60°)	8009.2	37.8	B4/8500		
BH (60°-80°)	916.1	4.3	B2/1000		G2/1000
BVH (80°-90°)	40.5	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°	9148.8	9148.8	9148.8	9148.8	9148.8	9148.8	9148.8	9148.8	9148.8	9148.8
2.5°	9189.3	9130.1	9074.0	9055.3	9133.2	9217.4	9164.4	9167.5	9148.8	9183.1
5°	9257.9	9176.8	9139.5	9111.4	9123.9	9211.1	9136.3	9164.4	9133.2	9173.7
7.5°	9232.9	9176.8	9139.5	9086.5	9127.0	9229.8	9158.1	9161.3	9145.7	9183.1
10°	9217.4	9176.8	9130.1	9136.3	9183.1	9270.3	9214.2	9245.4	9223.6	9245.4
12.5°	9254.7	9211.1	9186.2	9186.2	9226.7	9326.4	9298.4	9326.4	9317.1	9335.8
15°	8902.6	8943.1	9180.0	9285.9	9366.9	9466.6	9454.2	9482.2	9488.5	9516.5
17.5°	7509.7	7469.2	7450.5	7995.9	9444.8	9753.3	9744.0	9740.9	9709.7	9687.9
20°	7693.6	7678.0	7656.2	7696.7	7858.7	9902.9	9965.2	9581.9	9469.8	9460.4
22.5°	7986.5	7961.6	7880.6	7883.7	7933.5	8609.7	9656.7	9307.7	9270.3	9248.5
25°	8129.8	8080.0	8014.5	7995.9	8011.4	7886.8	8625.3	9039.7	8855.9	8771.8
27.5°	7877.4	7880.6	7827.6	7877.4	7818.2	7257.3	6942.6	8516.2	8510.0	8472.6
30°	7687.4	7678.0	7615.7	7678.0	7269.8	6643.5	6509.5	7942.9	7877.4	7827.6
32.5°	7104.7	7110.9	7291.6	7534.7	6864.7	6369.3	5964.2	7095.3	7715.4	7687.4
35°	5082.3	5094.8	5736.7	6936.4	6250.8	5823.9	5792.8	6132.4	7459.9	7472.4
37.5°	4892.2	4892.2	4876.7	5073.0	5767.9	5602.7	5665.0	5630.7	6833.6	6864.7
40°	4755.1	4727.1	4705.3	4396.8	4010.4	5446.9	5490.5	5334.7	6459.6	6465.9
42.5°	4590.0	4558.8	4565.1	3994.8	3589.7	5060.5	4939.0	4730.2	5836.4	5842.6
45°	4287.7	4340.7	4378.1	3496.2	3465.1	3614.6	4555.7	4424.8	5415.7	5531.0
47.5°	2181.3	2228.0	3418.3	3215.8	3287.5	3212.7	3848.4	3851.5	4505.8	4889.1
50°	1978.7	1966.2	1969.4	1875.9	3035.1	2598.8	2782.7	3530.5	3608.4	4156.8
52.5°	1844.7	1841.6	1651.5	1467.7	1907.0	2287.2	2019.2	2555.2	2682.9	3521.2
55°	1364.8	1464.6	1302.5	1380.4	1193.5	1832.3	1822.9	2305.9	2349.5	2823.2
57.5°	12.5	15.6	37.4	1050.1	825.8	916.1	1258.9	1573.6	1651.5	2199.9
60°	3.1	6.2	15.6	31.2	536.0	564.0	841.3	909.9	1025.2	1311.9
62.5°	0.0	0.0	6.2	15.6	28.0	230.6	268.0	292.9	451.8	670.0
65°	0.0	0.0	3.1	9.3	15.6	37.4	65.4	137.1	196.3	243.1
67.5°	0.0	0.0	3.1	6.2	12.5	18.7	37.4	53.0	84.1	143.3
70°	0.0	0.0	3.1	6.2	9.3	15.6	24.9	37.4	49.9	71.7
72.5°	0.0	0.0	3.1	6.2	6.2	18.7	18.7	28.0	37.4	46.7
75°	0.0	0.0	3.1	3.1	6.2	12.5	18.7	21.8	24.9	37.4
77.5°	0.0	0.0	3.1	6.2	9.3	12.5	15.6	24.9	21.8	21.8
80°	0.0	0.0	3.1	9.3	9.3	15.6	18.7	24.9	15.6	15.6
82.5°	0.0	0.0	3.1	12.5	9.3	31.2	31.2	34.3	12.5	12.5
85°	0.0	0.0	9.3	6.2	18.7	31.2	28.0	18.7	15.6	9.3
87.5°	0.0	0.0	3.1	3.1	6.2	9.3	21.8	18.7	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°
9148.8	0°	9148.8	9148.8	9148.8	9148.8	9148.8	9148.8	9148.8	9148.8	9148.8
9092.7	2.5°	9217.4	9176.8	9261.0	9251.6	9211.1	9192.4	9170.6	9151.9	9014.8
9098.9	5°	9220.5	9158.1	9261.0	9242.3	9236.0	9204.9	9186.2	9214.2	9089.6
9123.9	7.5°	9220.5	9158.1	9270.3	9276.6	9267.2	9242.3	9239.2	9257.9	9155.0
9167.5	10°	9282.8	9257.9	9351.3	9360.7	9348.2	9342.0	9326.4	9314.0	9204.9
9317.1	12.5°	9413.7	9363.8	9469.8	9497.8	9488.5	9504.0	9466.6	9485.3	9373.2
9469.8	15°	9572.6	9575.7	9656.7	9719.0	9712.8	9762.7	9706.6	9756.4	9675.4
9644.3	17.5°	9815.6	9849.9	9965.2	10058.7	10093.0	10130.4	10093.0	10108.6	9993.3
9451.1	20°	9560.1	9687.9	10242.5	10413.9	10485.6	10519.9	10457.6	10476.2	10361.0
9214.2	22.5°	9329.5	9494.7	9987.0	10523.0	10744.2	10812.8	10791.0	10787.9	10744.2
8746.8	25°	8989.9	9323.3	9544.5	10111.7	10806.6	10931.2	10943.7	10940.5	10875.1
8460.1	27.5°	8572.3	8647.1	9220.5	9566.4	10370.3	10843.9	10825.2	10734.9	10647.6
7865.0	30°	8039.5	8379.1	8637.8	9189.3	9806.3	10576.0	10576.0	10507.4	10417.0
7653.1	32.5°	7768.4	8207.7	8447.7	8647.1	9173.7	10276.8	10401.5	10329.8	10258.1
7487.9	35°	7625.0	7690.5	8251.4	8432.1	8877.7	9700.3	10205.1	10133.5	10080.5
7048.6	37.5°	7310.3	7463.0	7724.8	8207.7	8344.9	9229.8	9943.4	9906.0	9843.7
6478.3	40°	6609.2	7017.4	7419.4	7877.4	8020.8	8625.3	9625.6	9641.1	9557.0
5870.7	42.5°	6194.8	6472.1	7101.5	7410.0	7796.4	8235.8	9317.1	9342.0	9282.8
5562.2	45°	5708.7	6017.1	6459.6	7020.5	7547.1	7699.8	8771.8	9033.5	8983.6
4948.3	47.5°	5263.1	5512.3	6054.5	6621.7	7204.4	7182.6	8145.4	8637.8	8569.2
4477.8	50°	4630.5	5066.7	5322.3	5842.6	6712.0	6771.2	7478.6	8173.5	8117.4
3804.7	52.5°	3904.4	4452.9	4942.1	5418.9	6213.5	6353.7	6858.5	7699.8	7662.4
2907.3	55°	3412.1	3811.0	4362.5	4745.8	5608.9	5982.9	6394.2	7248.0	7229.3
2390.0	57.5°	2427.4	3197.1	3652.0	4188.0	4643.0	5319.1	5624.5	6328.8	6154.3
1324.3	60°	1645.3	2006.8	2561.4	3137.9	3443.3	4119.5	4403.0	4967.0	4920.3
791.5	62.5°	869.4	1202.8	1598.5	1888.3	2109.6	2767.1	2885.5	3493.1	3477.5
317.8	65°	383.3	507.9	866.3	1015.8	1243.3	1548.7	1651.5	1869.6	1816.7
155.8	67.5°	199.4	302.3	489.2	601.4	757.2	872.5	956.6	1025.2	1068.8
102.8	70°	121.5	221.2	302.3	417.6	520.4	613.9	679.3	772.8	828.9
53.0	72.5°	90.4	140.2	208.8	321.0	377.0	486.1	551.5	620.1	670.0
43.6	75°	49.9	93.5	168.3	252.4	302.3	395.7	454.9	501.7	517.3
24.9	77.5°	31.2	71.7	140.2	196.3	236.8	321.0	305.4	349.0	386.4
18.7	80°	21.8	53.0	109.1	162.0	165.2	205.7	243.1	280.4	305.4
12.5	82.5°	15.6	43.6	81.0	124.6	109.1	158.9	190.1	218.1	158.9
9.3	85°	12.5	31.2	40.5	74.8	62.3	112.2	96.6	93.5	62.3
6.2	87.5°	9.3	15.6	28.0	34.3	24.9	24.9	31.2	37.4	31.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9148.8
8921.3
8983.6
9036.6
9114.5
9273.4
9541.4
9893.5
10279.9
10604.0
10775.4
10579.1
10382.8
10198.9
10005.7
9781.4
9538.3
9276.6
8989.9
8619.1
8126.7
7687.4
7251.1
6135.6
4923.4
3480.7
1794.9
1068.8
832.0
679.3
507.9
392.6
308.5
115.3
62.3
31.2
0.0

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