

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: P638465

Luminaire Tested: **IFLD-M-SA4C-750-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638465
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-750-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21435.1 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

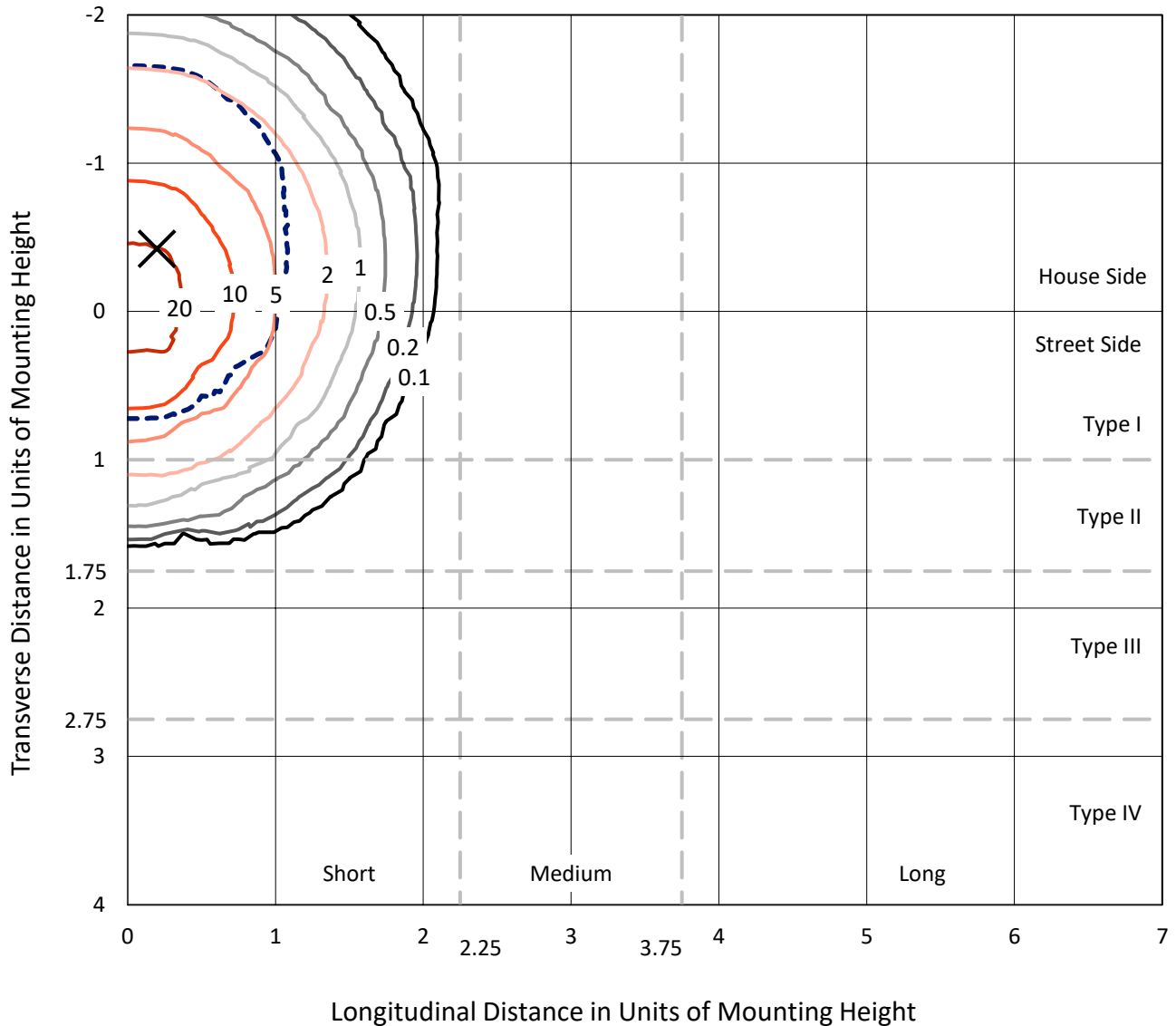
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

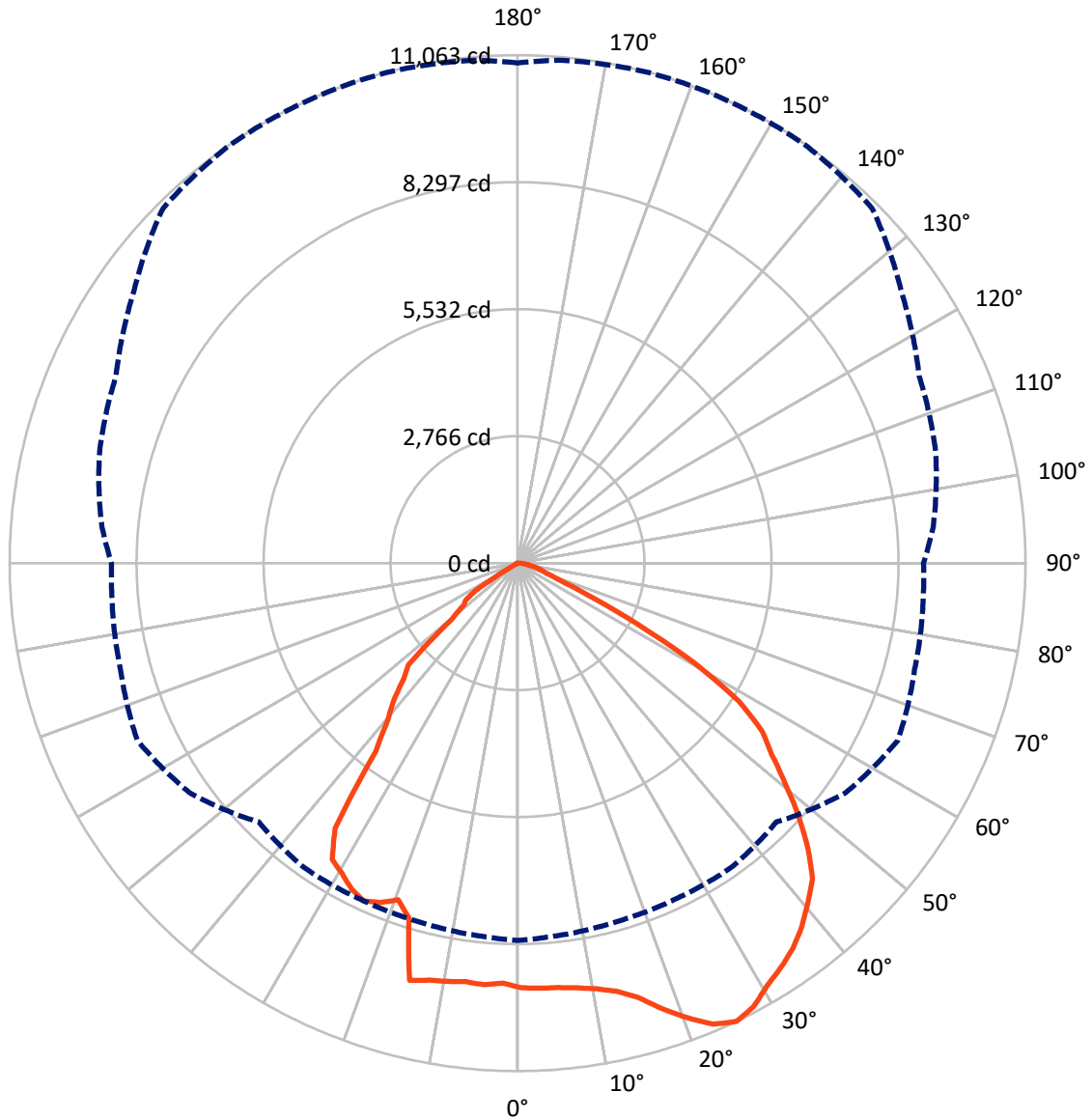
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 23.1 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	13270.5	0.0	13270.5
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	8164.6	0.0	8164.6
	% Fixture	38.1	0.0	38.1
Total	Lumens	21435.1	0.0	21435.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	887.3	4.1
10°-20°	2709.3	12.6
20°-30°	4283.3	20.0
30°-40°	4838.4	22.6
40°-50°	4531.2	21.1
50°-60°	3124.0	14.6
60°-70°	839.3	3.9
70°-80°	174.9	0.8
80°-90°	47.3	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°	21435.1	100.0
0°-180°	21435.1	100.0



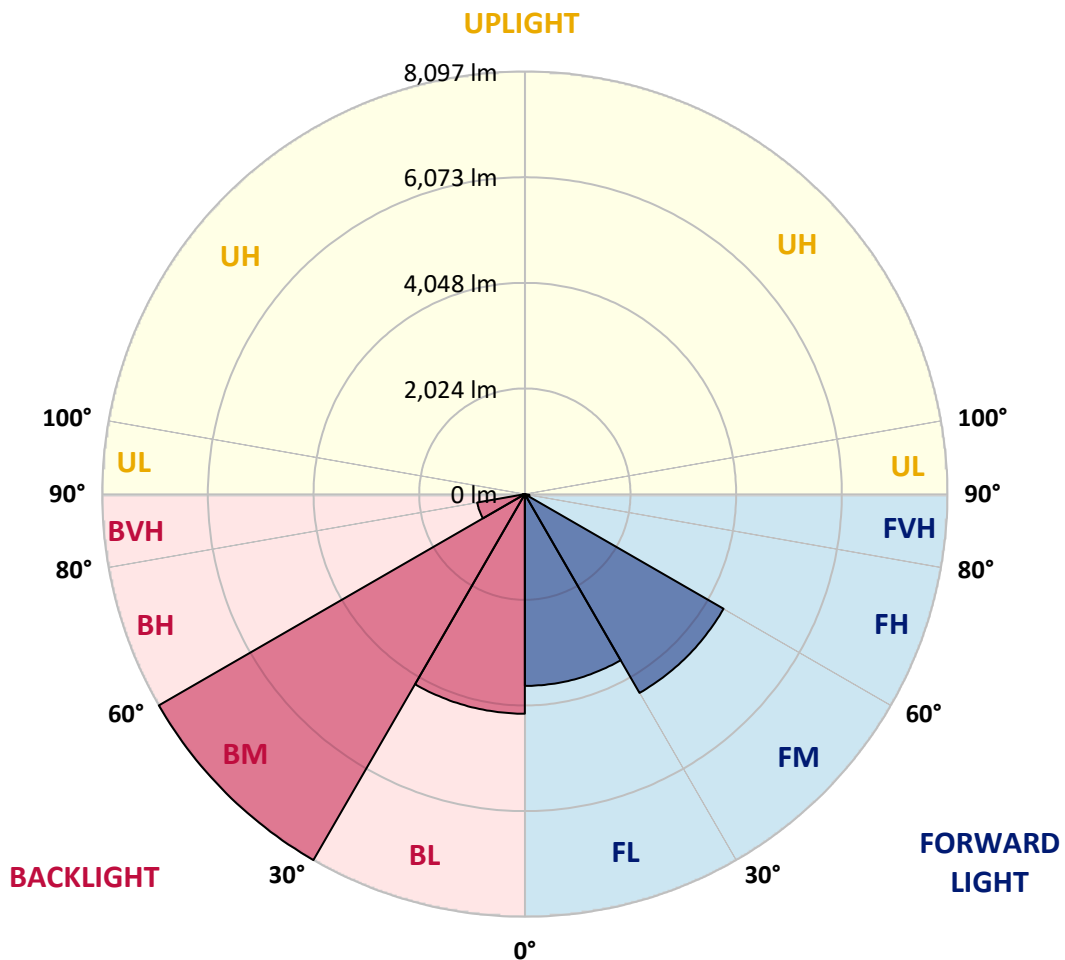
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3673.3	17.1			
FM (30°-60°)	4396.8	20.5			
FH (60°-80°)	88.1	0.4			G0/660
FVH (80°-90°)	6.4	0.0			G0/10
BL (0°-30°)	4206.7	19.6	B4/5000		
BM (30°-60°)	8096.8	37.8	B4/8500		
BH (60°-80°)	926.1	4.3	B2/1000		G2/1000
BVH (80°-90°)	41.0	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°	9248.8	9248.8	9248.8	9248.8	9248.8	9248.8	9248.8	9248.8	9248.8	9248.8
2.5°	9289.8	9229.9	9173.2	9154.3	9233.1	9318.2	9264.6	9267.7	9248.8	9283.5
5°	9359.1	9277.2	9239.4	9211.0	9223.6	9311.9	9236.2	9264.6	9233.1	9274.0
7.5°	9333.9	9277.2	9239.4	9185.8	9226.8	9330.8	9258.3	9261.4	9245.7	9283.5
10°	9318.2	9277.2	9229.9	9236.2	9283.5	9371.7	9315.0	9346.5	9324.5	9346.5
12.5°	9356.0	9311.9	9286.7	9286.7	9327.6	9428.4	9400.1	9428.4	9419.0	9437.9
15°	9000.0	9040.9	9280.3	9387.5	9469.4	9570.2	9557.6	9585.9	9592.2	9620.6
17.5°	7591.9	7550.9	7532.0	8083.3	9548.1	9860.0	9850.5	9847.4	9815.9	9793.8
20°	7777.7	7762.0	7739.9	7780.9	7944.7	10011.2	10074.2	9686.7	9573.3	9563.9
22.5°	8073.8	8048.6	7966.7	7969.9	8020.3	8703.9	9762.3	9409.5	9371.7	9349.7
25°	8218.7	8168.3	8102.2	8083.3	8099.0	7973.0	8719.6	9138.6	8952.7	8867.7
27.5°	7963.6	7966.7	7913.2	7963.6	7903.7	7336.7	7018.5	8609.4	8603.1	8565.3
30°	7771.4	7762.0	7699.0	7762.0	7349.3	6716.1	6580.7	8029.7	7963.6	7913.2
32.5°	7182.3	7188.6	7371.4	7617.1	6939.8	6438.9	6029.4	7172.9	7799.8	7771.4
35°	5137.9	5150.5	5799.4	7012.2	6319.2	5887.6	5856.1	6199.5	7541.5	7554.1
37.5°	4945.7	4945.7	4930.0	5128.4	5830.9	5664.0	5727.0	5692.3	6908.3	6939.8
40°	4807.1	4778.8	4756.7	4444.9	4054.2	5506.5	5550.6	5393.1	6530.3	6536.6
42.5°	4640.2	4608.7	4615.0	4038.5	3629.0	5115.8	4993.0	4781.9	5900.2	5906.5
45°	4334.6	4388.2	4426.0	3534.5	3503.0	3654.2	4605.5	4473.2	5475.0	5591.5
47.5°	2205.1	2252.4	3455.7	3251.0	3323.4	3247.8	3890.4	3893.6	4555.1	4942.6
50°	2000.3	1987.7	1990.9	1896.4	3068.2	2627.2	2813.1	3569.1	3647.9	4202.3
52.5°	1864.9	1861.7	1669.6	1483.7	1927.9	2312.2	2041.3	2583.1	2712.3	3559.7
55°	1379.8	1480.6	1316.8	1395.5	1206.5	1852.3	1842.8	2331.1	2375.2	2854.0
57.5°	12.6	15.8	37.8	1061.6	834.8	926.1	1272.7	1590.8	1669.6	2224.0
60°	3.2	6.3	15.8	31.5	541.8	570.2	850.5	919.8	1036.4	1326.2
62.5°	0.0	0.0	6.3	15.8	28.4	233.1	270.9	296.1	456.8	677.3
65°	0.0	0.0	3.2	9.5	15.8	37.8	66.2	138.6	198.5	245.7
67.5°	0.0	0.0	3.2	6.3	12.6	18.9	37.8	53.6	85.1	144.9
70°	0.0	0.0	3.2	6.3	9.5	15.8	25.2	37.8	50.4	72.5
72.5°	0.0	0.0	3.2	6.3	6.3	18.9	18.9	28.4	37.8	47.3
75°	0.0	0.0	3.2	3.2	6.3	12.6	18.9	22.1	25.2	37.8
77.5°	0.0	0.0	3.2	6.3	9.5	12.6	15.8	25.2	22.1	22.1
80°	0.0	0.0	3.2	9.5	9.5	15.8	18.9	25.2	15.8	15.8
82.5°	0.0	0.0	3.2	12.6	9.5	31.5	31.5	34.7	12.6	12.6
85°	0.0	0.0	9.5	6.3	18.9	31.5	28.4	18.9	15.8	9.5
87.5°	0.0	0.0	3.2	3.2	6.3	9.5	22.1	18.9	6.3	6.3
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°
9248.8	0°	9248.8	9248.8	9248.8	9248.8	9248.8	9248.8	9248.8	9248.8	9248.8
9192.1	2.5°	9318.2	9277.2	9362.3	9352.8	9311.9	9293.0	9270.9	9252.0	9113.4
9198.4	5°	9321.3	9258.3	9362.3	9343.4	9337.1	9305.6	9286.7	9315.0	9189.0
9223.6	7.5°	9321.3	9258.3	9371.7	9378.0	9368.6	9343.4	9340.2	9359.1	9255.1
9267.7	10°	9384.3	9359.1	9453.6	9463.1	9450.5	9444.2	9428.4	9415.8	9305.6
9419.0	12.5°	9516.6	9466.2	9573.3	9601.7	9592.2	9608.0	9570.2	9589.1	9475.7
9573.3	15°	9677.3	9680.4	9762.3	9825.3	9819.0	9869.4	9812.7	9863.1	9781.2
9749.7	17.5°	9923.0	9957.6	10074.2	10168.7	10203.3	10241.1	10203.3	10219.1	10102.5
9554.4	20°	9664.7	9793.8	10354.6	10527.8	10600.3	10634.9	10571.9	10590.8	10474.3
9315.0	22.5°	9431.6	9598.5	10096.2	10638.1	10861.7	10931.0	10909.0	10905.8	10861.7
8842.5	25°	9088.2	9425.3	9648.9	10222.2	10924.7	11050.7	11063.3	11060.2	10994.0
8552.7	27.5°	8666.1	8741.7	9321.3	9671.0	10483.7	10962.5	10943.6	10852.3	10764.1
7951.0	30°	8127.4	8470.8	8732.2	9289.8	9913.5	10691.6	10691.6	10622.3	10531.0
7736.8	32.5°	7853.3	8297.5	8540.1	8741.7	9274.0	10389.2	10515.2	10442.8	10370.3
7569.8	35°	7708.4	7774.6	8341.6	8524.3	8974.8	9806.4	10316.8	10244.3	10190.7
7125.6	37.5°	7390.3	7544.6	7809.2	8297.5	8436.1	9330.8	10052.1	10014.3	9951.3
6549.2	40°	6681.5	7094.1	7500.5	7963.6	8108.5	8719.6	9730.8	9746.6	9661.5
5934.9	42.5°	6262.5	6542.9	7179.2	7491.1	7881.7	8325.9	9419.0	9444.2	9384.3
5623.0	45°	5771.1	6082.9	6530.3	7097.3	7629.7	7784.0	8867.7	9132.3	9081.9
5002.4	47.5°	5320.6	5572.6	6120.7	6694.1	7283.2	7261.1	8234.5	8732.2	8662.9
4526.8	50°	4681.1	5122.1	5380.5	5906.5	6785.4	6845.3	7560.4	8262.9	8206.1
3846.3	52.5°	3947.1	4501.6	4996.1	5478.1	6281.4	6423.2	6933.5	7784.0	7746.2
2939.1	55°	3449.4	3852.6	4410.2	4797.7	5670.3	6048.3	6464.1	7327.3	7308.4
2416.2	57.5°	2454.0	3232.1	3692.0	4233.8	4693.7	5377.3	5686.0	6398.0	6221.6
1338.8	60°	1663.3	2028.7	2589.4	3172.2	3480.9	4164.5	4451.2	5021.3	4974.1
800.1	62.5°	878.9	1216.0	1616.0	1909.0	2132.7	2797.3	2917.0	3531.3	3515.6
321.3	65°	387.5	513.5	875.7	1026.9	1256.9	1565.6	1669.6	1890.1	1836.5
157.5	67.5°	201.6	305.6	494.6	608.0	765.5	882.0	967.1	1036.4	1080.5
104.0	70°	122.9	223.7	305.6	422.1	526.1	620.6	686.7	781.2	837.9
53.6	72.5°	91.4	141.8	211.1	324.5	381.2	491.4	557.6	626.9	677.3
44.1	75°	50.4	94.5	170.1	255.2	305.6	400.1	459.9	507.2	522.9
25.2	77.5°	31.5	72.5	141.8	198.5	239.4	324.5	308.7	352.8	390.6
18.9	80°	22.1	53.6	110.3	163.8	167.0	207.9	245.7	283.5	308.7
12.6	82.5°	15.8	44.1	81.9	126.0	110.3	160.7	192.2	220.5	160.7
9.5	85°	12.6	31.5	41.0	75.6	63.0	113.4	97.7	94.5	63.0
6.3	87.5°	9.5	15.8	28.4	34.7	25.2	25.2	31.5	37.8	31.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9248.8
9018.9
9081.9
9135.4
9214.2
9374.9
9645.8
10001.7
10392.4
10720.0
<i>10893.2</i>
10694.8
10496.3
10310.4
10115.1
9888.3
9642.6
9378.0
9088.2
8713.3
8215.6
7771.4
7330.4
6202.7
4977.2
3518.7
1814.5
1080.5
841.1
686.7
513.5
396.9
311.9
116.6
63.0
31.5
0.0

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