

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: P638444

Luminaire Tested: **IFLD-L-SA8A-740-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638444
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-740-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25248.1 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

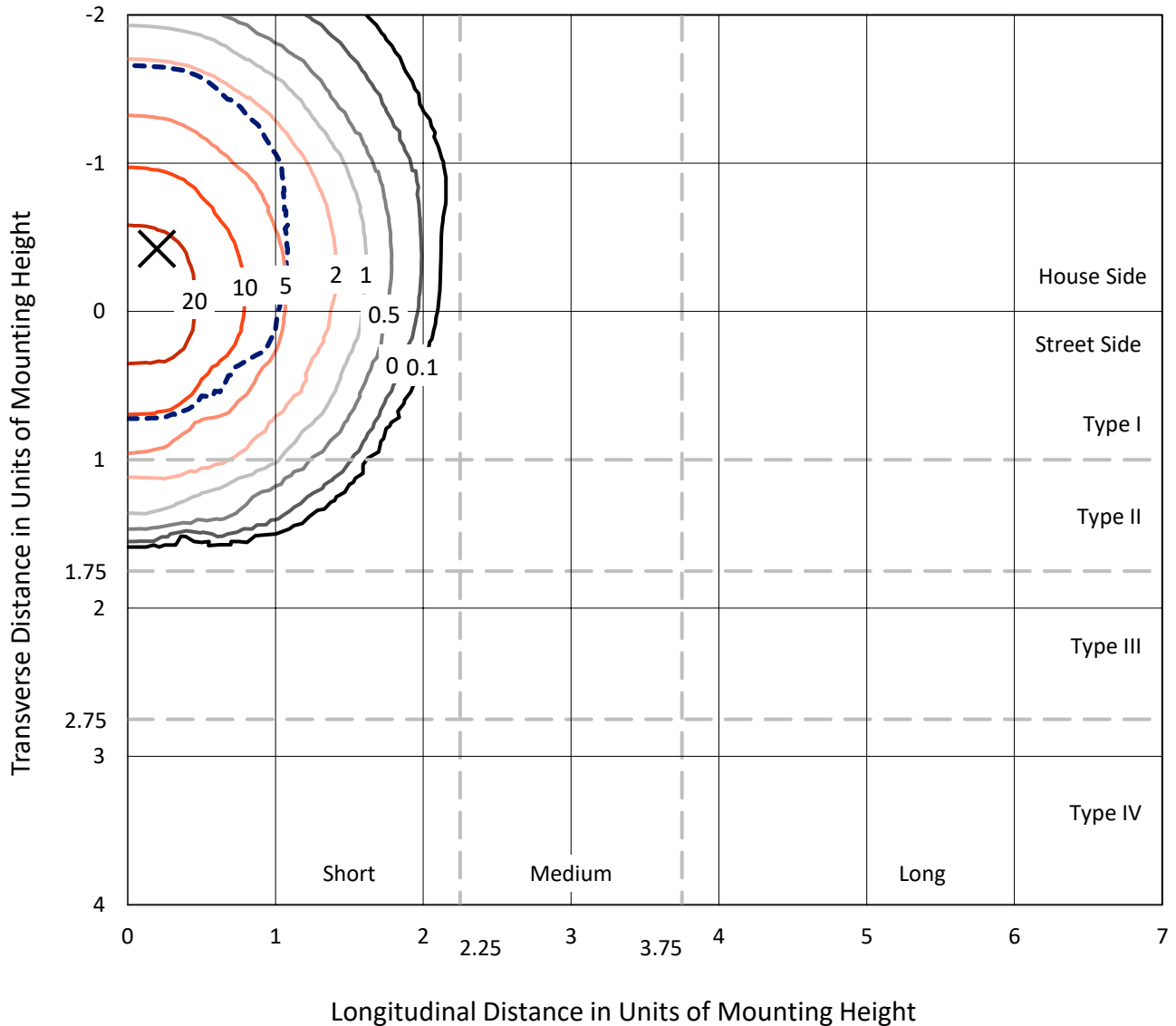
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

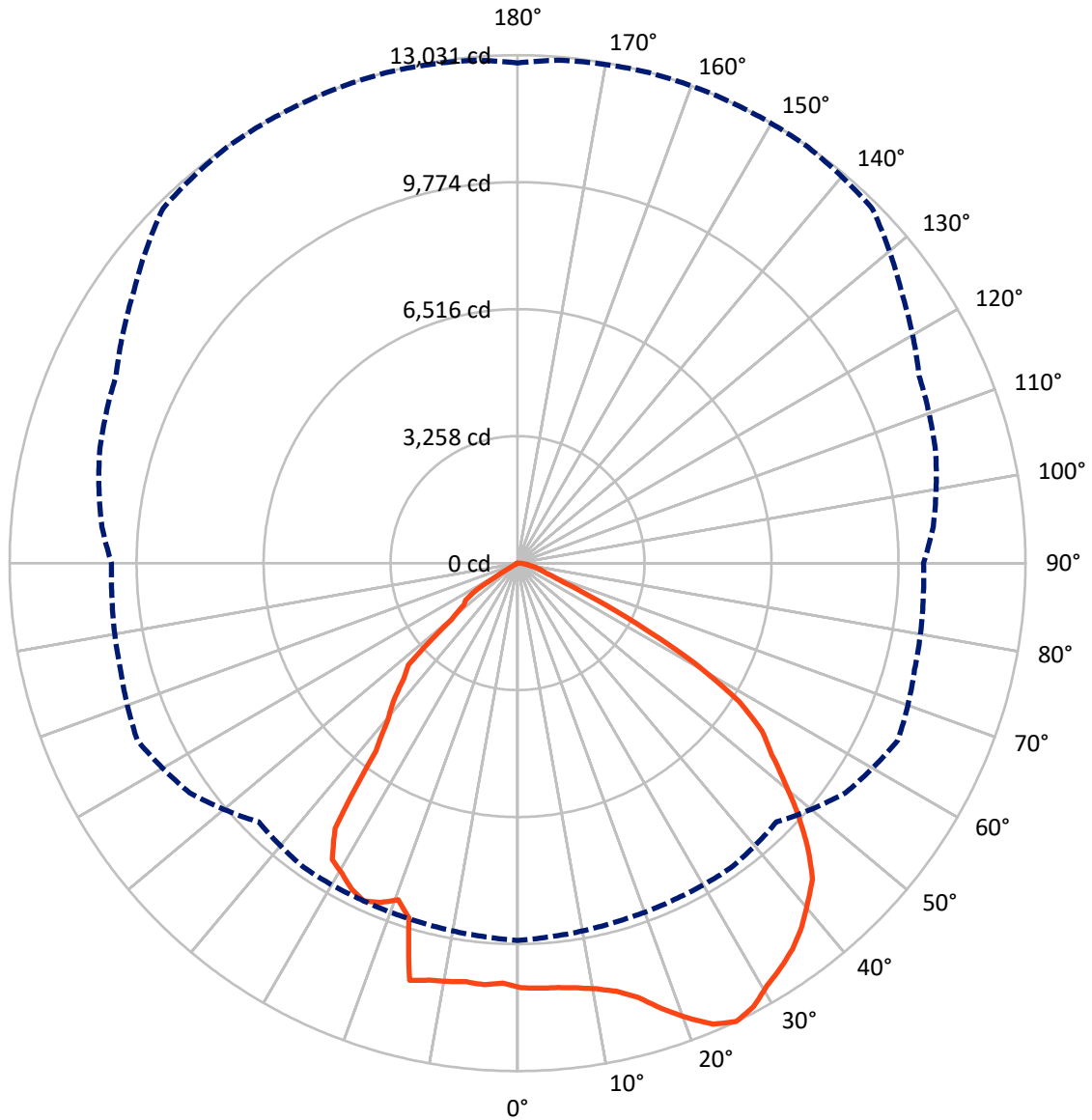
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 27.2 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	15631.2	0.0	15631.2
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	9616.9	0.0	9616.9
	% Fixture	38.1	0.0	38.1
Total	Lumens	25248.1	0.0	25248.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1045.1	4.1
10°-20°	3191.3	12.6
20°-30°	5045.3	20.0
30°-40°	5699.1	22.6
40°-50°	5337.3	21.1
50°-60°	3679.7	14.6
60°-70°	988.6	3.9
70°-80°	206.0	0.8
80°-90°	55.7	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°	25248.1	100.0
0°-180°	25248.1	100.0



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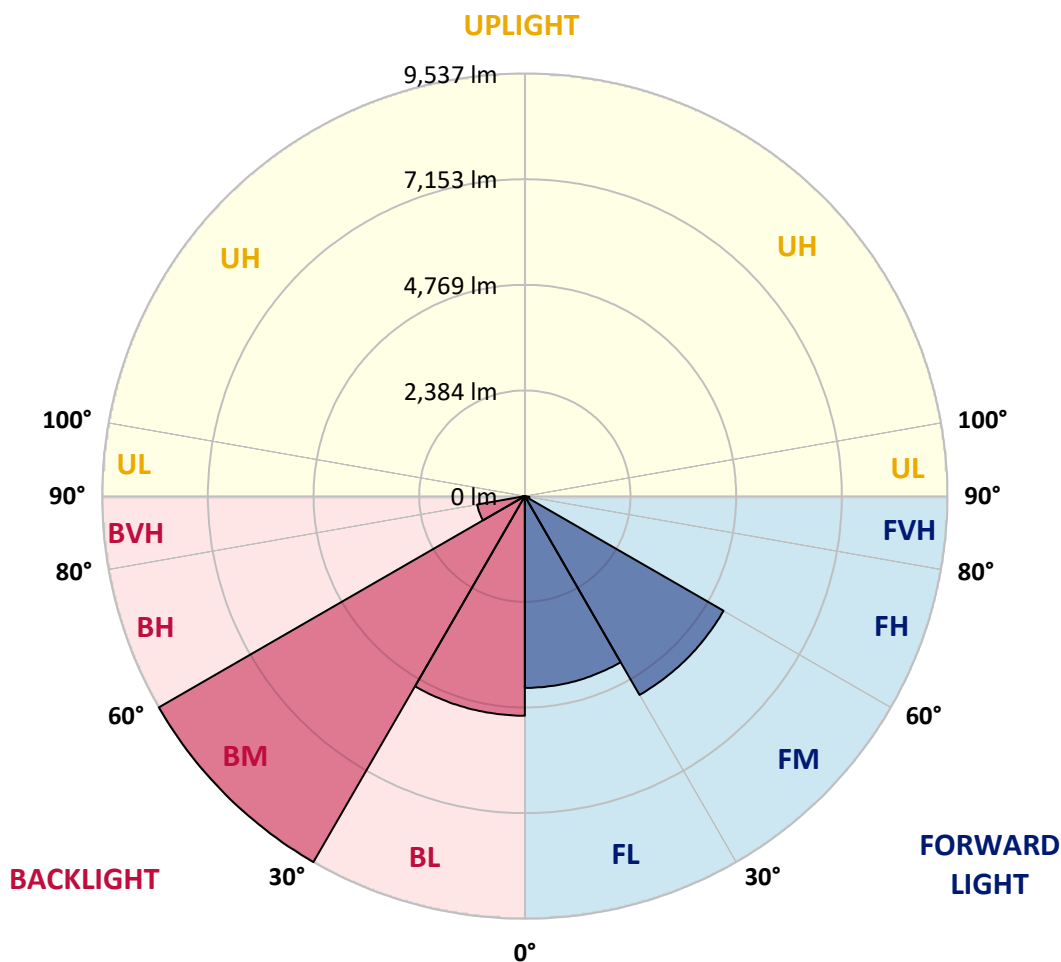
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4326.7	17.1			
FM (30°-60°)	5178.9	20.5			
FH (60°-80°)	103.8	0.4			G0/660
FVH (80°-90°)	7.5	0.0			G0/10
BL (0°-30°)	4955.0	19.6	B4/5000		
BM (30°-60°)	9537.1	37.8	B5		
BH (60°-80°)	1090.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	48.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10894.1	10894.1	10894.1	10894.1	10894.1	10894.1	10894.1	10894.1	10894.1	10894.1
2.5°	10942.3	10871.8	10805.1	10782.8	10875.6	10975.7	10912.7	10916.4	10894.1	10934.9
5°	11024.0	10927.5	10883.0	10849.6	10864.4	10968.3	10879.3	10912.7	10875.6	10923.8
7.5°	10994.3	10927.5	10883.0	10819.9	10868.1	10990.6	10905.2	10908.9	10890.4	10934.9
10°	10975.7	10927.5	10871.8	10879.3	10934.9	11038.8	10972.0	11009.1	10983.2	11009.1
12.5°	11020.3	10968.3	10938.6	10938.6	10986.9	11105.6	11072.2	11105.6	11094.5	11116.7
15°	10601.0	10649.2	10931.2	11057.4	11153.8	11272.6	11257.7	11291.1	11298.6	11331.9
17.5°	8942.4	8894.1	8871.9	9521.2	11246.6	11613.9	11602.8	11599.1	11562.0	11536.0
20°	9161.3	9142.7	9116.8	9165.0	9357.9	11792.1	11866.3	11409.9	11276.3	11265.2
22.5°	9510.1	9480.4	9383.9	9387.6	9447.0	10252.2	11498.9	11083.3	11038.8	11012.8
25°	9680.8	9621.4	9543.5	9521.2	9539.8	9391.3	10270.7	10764.2	10545.3	10445.1
27.5°	9380.2	9383.9	9320.8	9380.2	9309.7	8641.8	8267.1	10140.9	10133.4	10088.9
30°	9153.9	9142.7	9068.5	9142.7	8656.7	7910.8	7751.3	9458.1	9380.2	9320.8
32.5°	8460.0	8467.4	8682.6	8972.1	8174.3	7584.3	7101.9	8448.9	9187.3	9153.9
35°	6051.9	6066.7	6831.1	8259.6	7443.3	6935.0	6897.9	7302.3	8883.0	8897.8
37.5°	5825.5	5825.5	5807.0	6040.7	6868.2	6671.5	6745.7	6704.9	8137.2	8174.3
40°	5662.3	5628.9	5602.9	5235.6	4775.4	6486.0	6537.9	6352.4	7691.9	7699.3
42.5°	5465.6	5428.5	5435.9	4756.9	4274.5	6025.9	5881.2	5632.6	6949.8	6957.2
45°	5105.7	5168.8	5213.3	4163.2	4126.1	4304.2	5424.8	5268.9	6448.9	6586.2
47.5°	2597.4	2653.0	4070.4	3829.3	3914.6	3825.6	4582.5	4586.2	5365.4	5821.8
50°	2356.2	2341.3	2345.1	2233.7	3614.1	3094.6	3313.5	4204.0	4296.8	4949.8
52.5°	2196.6	2192.9	1966.6	1747.7	2270.8	2723.5	2404.4	3042.6	3194.8	4192.9
55°	1625.2	1743.9	1551.0	1643.8	1421.1	2181.8	2170.7	2745.8	2797.7	3361.7
57.5°	14.8	18.6	44.5	1250.4	983.3	1090.9	1499.1	1873.8	1966.6	2619.6
60°	3.7	7.4	18.6	37.1	638.2	671.6	1001.8	1083.5	1220.8	1562.1
62.5°	0.0	0.0	7.4	18.6	33.4	274.6	319.1	348.8	538.0	797.8
65°	0.0	0.0	3.7	11.1	18.6	44.5	77.9	163.3	233.8	289.4
67.5°	0.0	0.0	3.7	7.4	14.8	22.3	44.5	63.1	100.2	170.7
70°	0.0	0.0	3.7	7.4	11.1	18.6	29.7	44.5	59.4	85.3
72.5°	0.0	0.0	3.7	7.4	7.4	22.3	22.3	33.4	44.5	55.7
75°	0.0	0.0	3.7	3.7	7.4	14.8	22.3	26.0	29.7	44.5
77.5°	0.0	0.0	3.7	7.4	11.1	14.8	18.6	29.7	26.0	26.0
80°	0.0	0.0	3.7	11.1	11.1	18.6	22.3	29.7	18.6	18.6
82.5°	0.0	0.0	3.7	14.8	11.1	37.1	37.1	40.8	14.8	14.8
85°	0.0	0.0	11.1	7.4	22.3	37.1	33.4	22.3	18.6	11.1
87.5°	0.0	0.0	3.7	3.7	7.4	11.1	26.0	22.3	7.4	7.4
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°
10894.1	0°	10894.1	10894.1	10894.1	10894.1	10894.1	10894.1	10894.1	10894.1	10894.1
10827.3	2.5°	10975.7	10927.5	11027.7	11016.6	10968.3	10946.1	10920.1	10897.8	10734.6
10834.7	5°	10979.4	10905.2	11027.7	11005.4	10998.0	10960.9	10938.6	10972.0	10823.6
10864.4	7.5°	10979.4	10905.2	11038.8	11046.2	11035.1	11005.4	11001.7	11024.0	10901.5
10916.4	10°	11053.7	11024.0	11135.3	11146.4	11131.6	11124.2	11105.6	11090.8	10960.9
11094.5	12.5°	11209.5	11150.1	11276.3	11309.7	11298.6	11317.1	11272.6	11294.8	11161.3
11276.3	15°	11398.7	11402.4	11498.9	11573.1	11565.7	11625.1	11558.3	11617.7	11521.2
11484.1	17.5°	11688.2	11729.0	11866.3	11977.6	12018.4	12062.9	12018.4	12036.9	11899.7
11254.0	20°	11383.9	11536.0	12196.5	12400.6	12485.9	12526.7	12452.5	12474.8	12337.5
10972.0	22.5°	11109.3	11306.0	11892.2	12530.4	12793.9	12875.5	12849.6	12845.8	12793.9
10415.4	25°	10704.9	11101.9	11365.3	12040.7	12868.1	13016.5	13031.4	13027.7	12949.7
10074.1	27.5°	10207.7	10296.7	10979.4	11391.3	12348.6	12912.6	12890.4	12782.8	12678.9
9365.4	30°	9573.2	9977.6	10285.6	10942.3	11677.0	12593.5	12593.5	12511.9	12404.3
9113.1	32.5°	9250.3	9773.5	10059.2	10296.7	10923.8	12237.3	12385.7	12300.4	12215.1
8916.4	35°	9079.7	9157.6	9825.5	10040.7	10571.3	11550.9	12152.0	12066.6	12003.6
8393.2	37.5°	8704.9	8886.7	9198.4	9773.5	9936.8	10990.6	11840.3	11795.8	11721.6
7714.2	40°	7870.0	8356.1	8834.8	9380.2	9550.9	10270.7	11461.8	11480.4	11380.2
6990.6	42.5°	7376.5	7706.8	8456.3	8823.6	9283.7	9806.9	11094.5	11124.2	11053.7
6623.3	45°	6797.7	7165.0	7691.9	8359.8	8986.9	9168.7	10445.1	10756.8	10697.4
5892.3	47.5°	6267.1	6563.9	7209.6	7884.9	8578.7	8552.8	9699.3	10285.6	10203.9
5332.0	50°	5513.8	6033.3	6337.6	6957.2	7992.5	8063.0	8905.3	9732.7	9665.9
4530.6	52.5°	4649.3	5302.3	5884.9	6452.6	7398.8	7565.8	8166.9	9168.7	9124.2
3461.9	55°	4063.0	4538.0	5194.7	5651.1	6678.9	7124.2	7614.0	8630.7	8608.4
2846.0	57.5°	2890.5	3807.0	4348.7	4986.9	5528.7	6333.9	6697.5	7536.1	7328.3
1577.0	60°	1959.2	2389.6	3050.1	3736.5	4100.1	4905.3	5243.0	5914.6	5858.9
942.5	62.5°	1035.2	1432.3	1903.5	2248.6	2512.0	3294.9	3435.9	4159.5	4140.9
378.5	65°	456.4	604.8	1031.5	1209.6	1480.5	1844.1	1966.6	2226.3	2163.2
185.5	67.5°	237.5	359.9	582.6	716.1	901.7	1038.9	1139.1	1220.8	1272.7
122.4	70°	144.7	263.4	359.9	497.2	619.7	731.0	808.9	920.2	987.0
63.1	72.5°	107.6	167.0	248.6	382.2	449.0	578.8	656.8	738.4	797.8
51.9	75°	59.4	111.3	200.4	300.6	359.9	471.2	541.7	597.4	615.9
29.7	77.5°	37.1	85.3	167.0	233.8	282.0	382.2	363.6	415.6	460.1
22.3	80°	26.0	63.1	129.9	192.9	196.7	244.9	289.4	333.9	363.6
14.8	82.5°	18.6	51.9	96.5	148.4	129.9	189.2	226.3	259.7	189.2
11.1	85°	14.8	37.1	48.2	89.1	74.2	133.6	115.0	111.3	74.2
7.4	87.5°	11.1	18.6	33.4	40.8	29.7	29.7	37.1	44.5	37.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10894.1
10623.2
10697.4
10760.5
10853.3
11042.5
11361.6
11780.9
12241.0
12626.9
12831.0
12597.2
12363.5
12144.6
11914.5
11647.3
11357.9
11046.2
10704.9
10263.3
9677.1
9153.9
8634.4
7306.0
5862.6
4144.7
2137.3
1272.7
990.7
808.9
604.8
467.5
367.3
137.3
74.2
37.1
0.0

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