

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: P638326

Luminaire Tested: **IFLD-L-SA7D-722-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638326
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-722-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26482.2 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

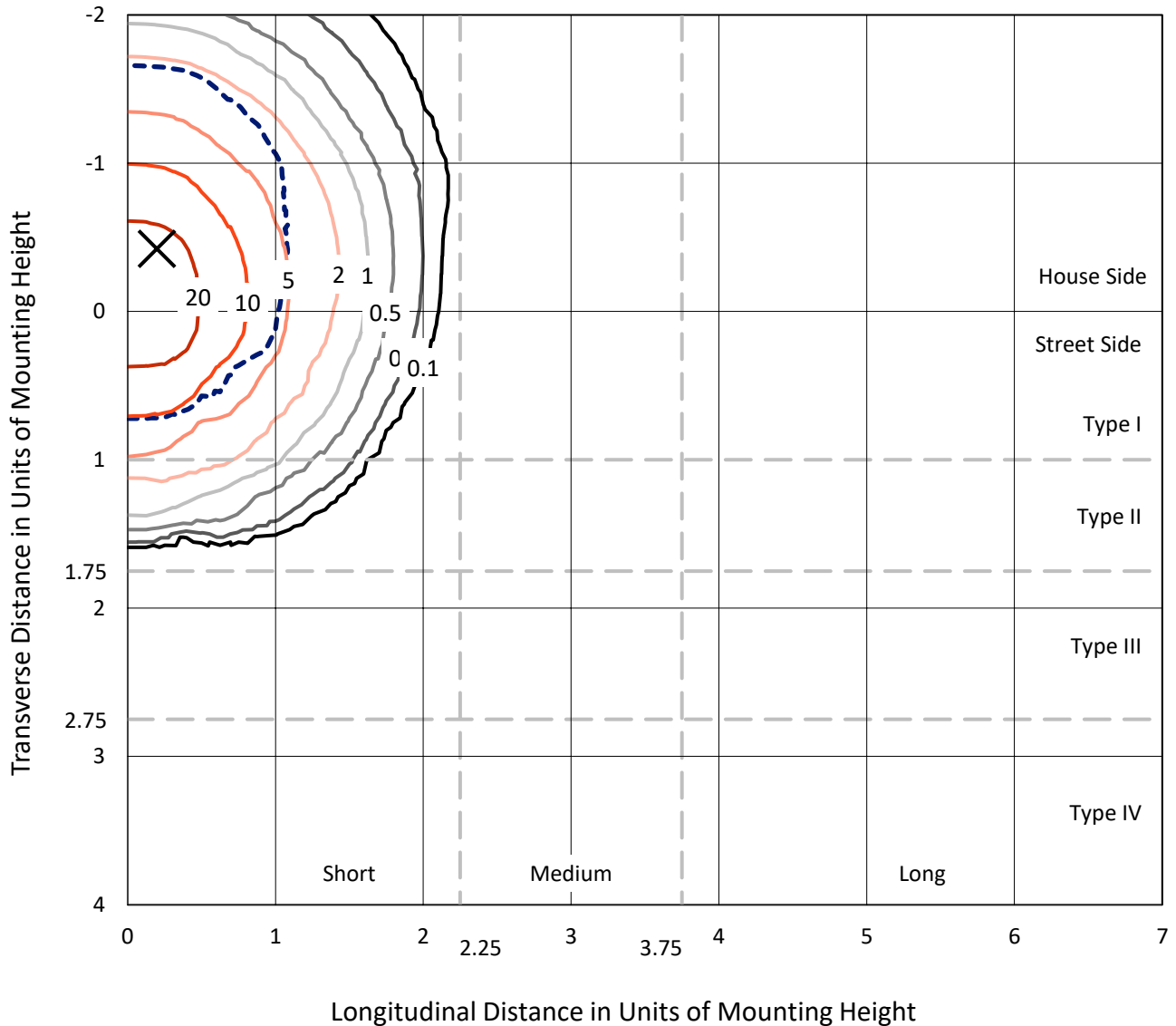
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

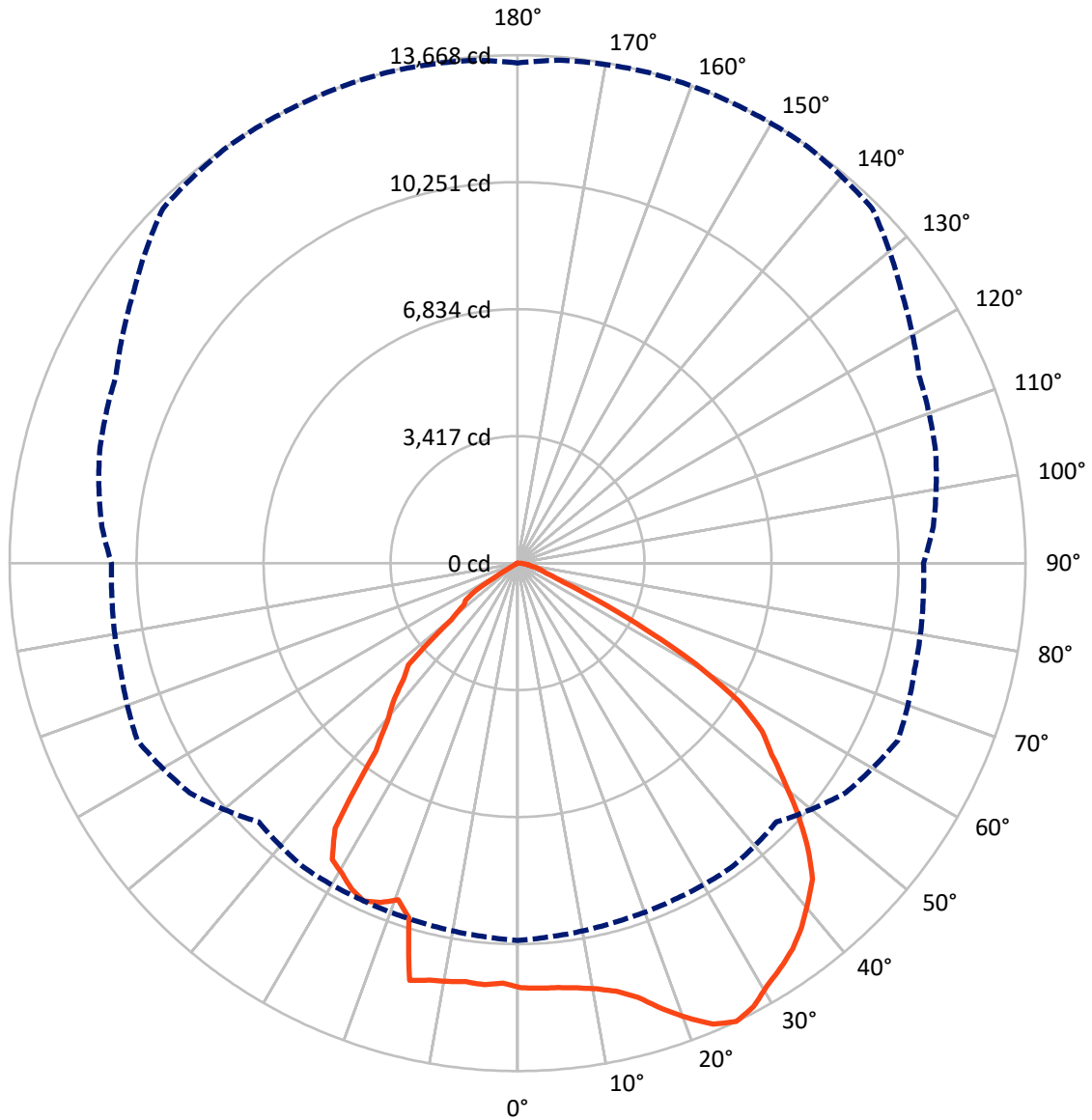
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 28.6 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	16395.2	0.0	16395.2
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	10087.0	0.0	10087.0
	% Fixture	38.1	0.0	38.1
Total	Lumens	26482.2	0.0	26482.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1096.2	4.1
10°-20°	3347.3	12.6
20°-30°	5291.9	20.0
30°-40°	5977.6	22.6
40°-50°	5598.2	21.1
50°-60°	3859.5	14.6
60°-70°	1036.9	3.9
70°-80°	216.1	0.8
80°-90°	58.5	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°	26482.2	100.0
0°-180°	26482.2	100.0



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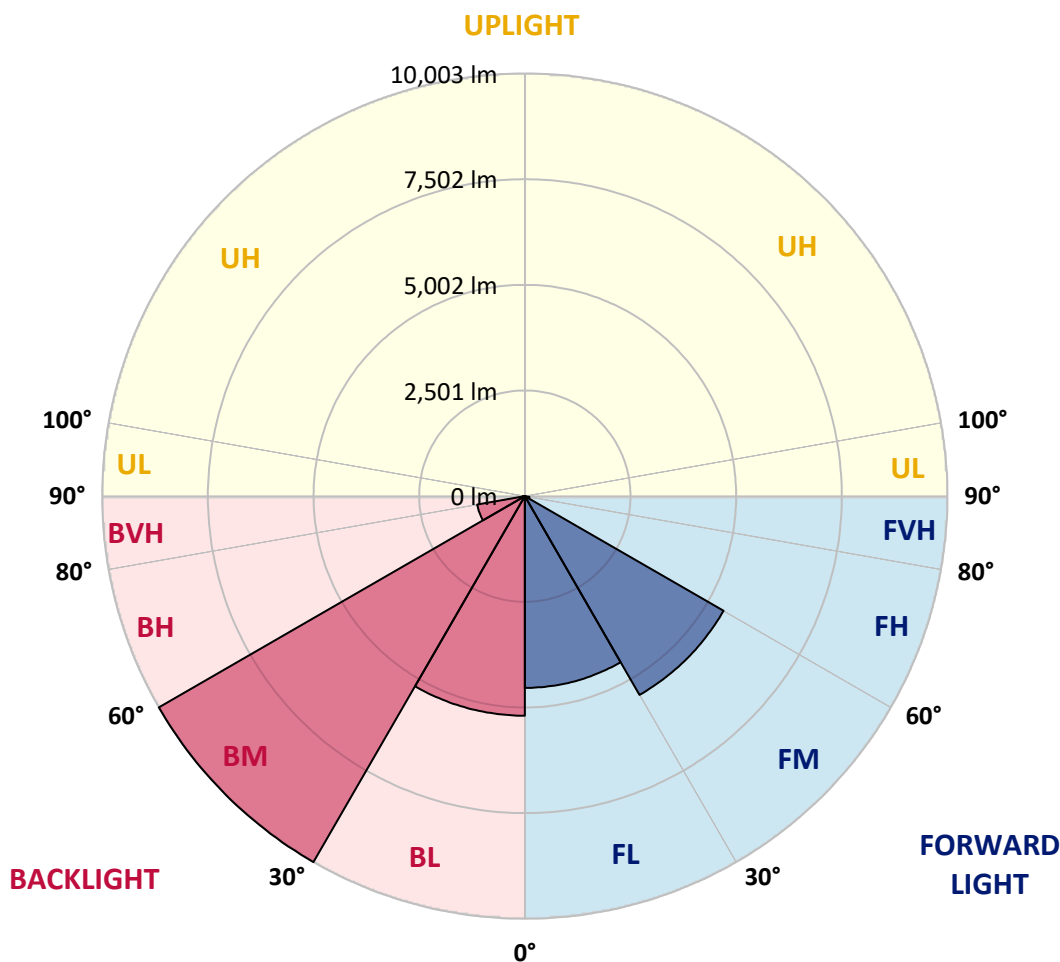
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4538.2	17.1			
FM (30°-60°)	5432.1	20.5			
FH (60°-80°)	108.9	0.4			G0/660
FVH (80°-90°)	7.8	0.0			G0/10
BL (0°-30°)	5197.2	19.6	B5		
BM (30°-60°)	10003.2	37.8	B5		
BH (60°-80°)	1144.2	4.3	B3/2500		G3/2500
BVH (80°-90°)	50.6	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°	11426.6	11426.6	11426.6	11426.6	11426.6	11426.6	11426.6	11426.6	11426.6	11426.6
2.5°	11477.2	11403.3	11333.2	11309.8	11407.1	11512.2	11446.1	11450.0	11426.6	11469.4
5°	11562.8	11461.6	11414.9	11379.9	11395.5	11504.4	11411.0	11446.1	11407.1	11457.7
7.5°	11531.7	11461.6	11414.9	11348.8	11399.4	11527.8	11438.3	11442.2	11422.7	11469.4
10°	11512.2	11461.6	11403.3	11411.0	11469.4	11578.4	11508.3	11547.3	11520.0	11547.3
12.5°	11558.9	11504.4	11473.3	11473.3	11523.9	11648.4	11613.4	11648.4	11636.8	11660.1
15°	11119.1	11169.7	11465.5	11597.8	11699.0	11823.6	11808.0	11843.0	11850.8	11885.8
17.5°	9379.5	9328.9	9305.5	9986.6	11796.3	12181.6	12170.0	12166.1	12127.1	12099.9
20°	9609.1	9589.6	9562.4	9613.0	9815.4	12368.4	12446.3	11967.6	11827.5	11815.8
22.5°	9974.9	9943.8	9842.6	9846.5	9908.8	10753.3	12061.0	11625.1	11578.4	11551.1
25°	10154.0	10091.7	10010.0	9986.6	10006.1	9850.4	10772.8	11290.4	11060.8	10955.7
27.5°	9838.7	9842.6	9776.4	9838.7	9764.8	9064.2	8671.1	10636.5	10628.8	10582.1
30°	9601.3	9589.6	9511.8	9589.6	9079.8	8297.5	8130.2	9920.4	9838.7	9776.4
32.5°	8873.5	8881.3	9107.0	9410.6	8573.8	7955.0	7449.1	8861.8	9636.3	9601.3
35°	6347.7	6363.2	7165.0	8663.4	7807.1	7274.0	7235.0	7659.2	9317.2	9332.8
37.5°	6110.3	6110.3	6090.8	6336.0	7203.9	6997.6	7075.5	7032.7	8534.9	8573.8
40°	5939.0	5904.0	5876.8	5491.5	5008.9	6803.0	6857.5	6662.9	8067.9	8075.7
42.5°	5732.8	5693.8	5701.6	4989.4	4483.5	6320.4	6168.7	5907.9	7289.5	7297.3
45°	5355.2	5421.4	5468.1	4366.7	4327.8	4514.6	5690.0	5526.5	6764.1	6908.1
47.5°	2724.3	2782.7	4269.4	4016.4	4105.9	4012.5	4806.5	4810.4	5627.7	6106.4
50°	2471.4	2455.8	2459.7	2342.9	3790.7	3245.8	3475.5	4409.5	4506.8	5191.8
52.5°	2304.0	2300.1	2062.7	1833.1	2381.8	2856.7	2521.9	3191.4	3350.9	4397.8
55°	1704.7	1829.2	1626.8	1724.1	1490.6	2288.4	2276.8	2880.0	2934.5	3526.1
57.5°	15.6	19.5	46.7	1311.6	1031.4	1144.2	1572.3	1965.4	2062.7	2747.7
60°	3.9	7.8	19.5	38.9	669.4	704.4	1050.8	1136.4	1280.4	1638.5
62.5°	0.0	0.0	7.8	19.5	35.0	288.0	334.7	365.8	564.3	836.8
65°	0.0	0.0	3.9	11.7	19.5	46.7	81.7	171.2	245.2	303.6
67.5°	0.0	0.0	3.9	7.8	15.6	23.4	46.7	66.2	105.1	179.0
70°	0.0	0.0	3.9	7.8	11.7	19.5	31.1	46.7	62.3	89.5
72.5°	0.0	0.0	3.9	7.8	7.8	23.4	23.4	35.0	46.7	58.4
75°	0.0	0.0	3.9	3.9	7.8	15.6	23.4	27.2	31.1	46.7
77.5°	0.0	0.0	3.9	7.8	11.7	15.6	19.5	31.1	27.2	27.2
80°	0.0	0.0	3.9	11.7	11.7	19.5	23.4	31.1	19.5	19.5
82.5°	0.0	0.0	3.9	15.6	11.7	38.9	38.9	42.8	15.6	15.6
85°	0.0	0.0	11.7	7.8	23.4	38.9	35.0	23.4	19.5	11.7
87.5°	0.0	0.0	3.9	3.9	7.8	11.7	27.2	23.4	7.8	7.8
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°
11426.6	0°	11426.6	11426.6	11426.6	11426.6	11426.6	11426.6	11426.6	11426.6	11426.6
11356.5	2.5°	11512.2	11461.6	11566.7	11555.0	11504.4	11481.1	11453.8	11430.5	11259.3
11364.3	5°	11516.1	11438.3	11566.7	11543.4	11535.6	11496.7	11473.3	11508.3	11352.7
11395.5	7.5°	11516.1	11438.3	11578.4	11586.2	11574.5	11543.4	11539.5	11562.8	11434.4
11450.0	10°	11594.0	11562.8	11679.6	11691.3	11675.7	11667.9	11648.4	11632.9	11496.7
11636.8	12.5°	11757.4	11695.1	11827.5	11862.5	11850.8	11870.3	11823.6	11846.9	11706.8
11827.5	15°	11955.9	11959.8	12061.0	12138.8	12131.0	12193.3	12123.3	12185.5	12084.3
12045.4	17.5°	12259.5	12302.3	12446.3	12563.0	12605.8	12652.6	12605.8	12625.3	12481.3
11804.1	20°	11940.3	12099.9	12792.7	13006.7	13096.2	13139.0	13061.2	13084.6	12940.6
11508.3	22.5°	11652.3	11858.6	12473.5	13142.9	13419.3	13504.9	13477.6	13473.7	13419.3
10924.5	25°	11228.1	11644.5	11920.9	12629.2	13497.1	13652.8	13668.3	13664.4	13582.7
10566.5	27.5°	10706.6	10800.0	11516.1	11948.1	12952.2	13543.8	13520.4	13407.6	13298.6
9823.1	30°	10041.1	10465.3	10788.3	11477.2	12247.8	13209.1	13209.1	13123.5	13010.6
9558.5	32.5°	9702.5	10251.3	10550.9	10800.0	11457.7	12835.5	12991.1	12901.6	12812.1
9352.2	35°	9523.5	9605.2	10305.7	10531.5	11088.0	12115.5	12746.0	12656.4	12590.3
8803.5	37.5°	9130.4	9321.1	9648.0	10251.3	10422.5	11527.8	12419.0	12372.3	12294.5
8091.2	40°	8254.7	8764.5	9266.6	9838.7	10017.7	10772.8	12022.1	12041.5	11936.4
7332.3	42.5°	7737.1	8083.5	8869.6	9254.9	9737.5	10286.3	11636.8	11667.9	11594.0
6947.0	45°	7130.0	7515.2	8067.9	8768.4	9426.2	9616.9	10955.7	11282.6	11220.3
6180.3	47.5°	6573.4	6884.8	7562.0	8270.3	8998.1	8970.8	10173.4	10788.3	10702.7
5592.7	50°	5783.4	6328.2	6647.4	7297.3	8383.1	8457.1	9340.5	10208.4	10138.4
4752.0	52.5°	4876.5	5561.5	6172.5	6768.0	7760.4	7935.6	8566.1	9616.9	9570.2
3631.1	55°	4261.6	4759.8	5448.7	5927.4	7005.4	7472.4	7986.2	9052.5	9029.2
2985.1	57.5°	3031.8	3993.1	4561.3	5230.7	5798.9	6643.5	7024.9	7904.4	7686.5
1654.1	60°	2054.9	2506.4	3199.1	3919.1	4300.5	5145.1	5499.2	6203.7	6145.3
988.5	62.5°	1085.8	1502.3	1996.5	2358.5	2634.8	3456.0	3603.9	4362.8	4343.4
397.0	65°	478.7	634.4	1081.9	1268.8	1552.9	1934.3	2062.7	2335.1	2269.0
194.6	67.5°	249.1	377.5	611.0	751.1	945.7	1089.7	1194.8	1280.4	1334.9
128.4	70°	151.8	276.3	377.5	521.5	649.9	766.7	848.4	965.2	1035.2
66.2	72.5°	112.9	175.1	260.8	400.9	470.9	607.1	688.9	774.5	836.8
54.5	75°	62.3	116.8	210.2	315.2	377.5	494.3	568.2	626.6	646.1
31.1	77.5°	38.9	89.5	175.1	245.2	295.8	400.9	381.4	435.9	482.6
23.4	80°	27.2	66.2	136.2	202.4	206.3	256.9	303.6	350.3	381.4
15.6	82.5°	19.5	54.5	101.2	155.7	136.2	198.5	237.4	272.4	198.5
11.7	85°	15.6	38.9	50.6	93.4	77.8	140.1	120.6	116.8	77.8
7.8	87.5°	11.7	19.5	35.0	42.8	31.1	31.1	38.9	46.7	38.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11426.6
11142.5
11220.3
11286.5
11383.8
11582.3
11917.0
12356.8
12839.4
13244.1
13458.2
13213.0
12967.8
12738.2
12496.9
12216.7
11913.1
11586.2
11228.1
10765.0
10150.1
9601.3
9056.4
7663.1
6149.2
4347.2
2241.7
1334.9
1039.1
848.4
634.4
490.4
385.3
144.0
77.8
38.9
0.0

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