

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: P636822

Luminaire Tested: **IFLD-L-SA8C-940-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636822
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-940-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (128) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28159.7 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

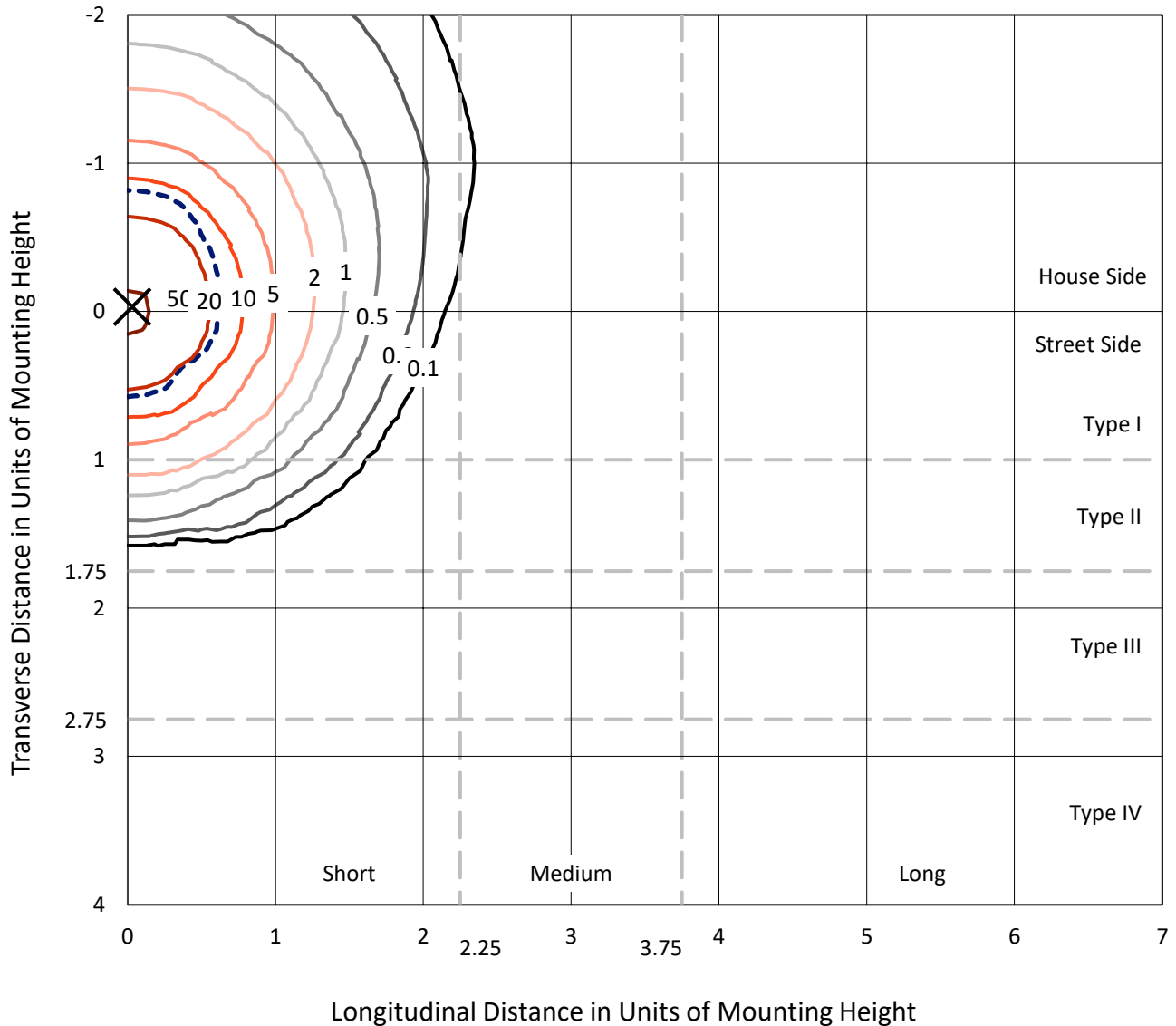
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

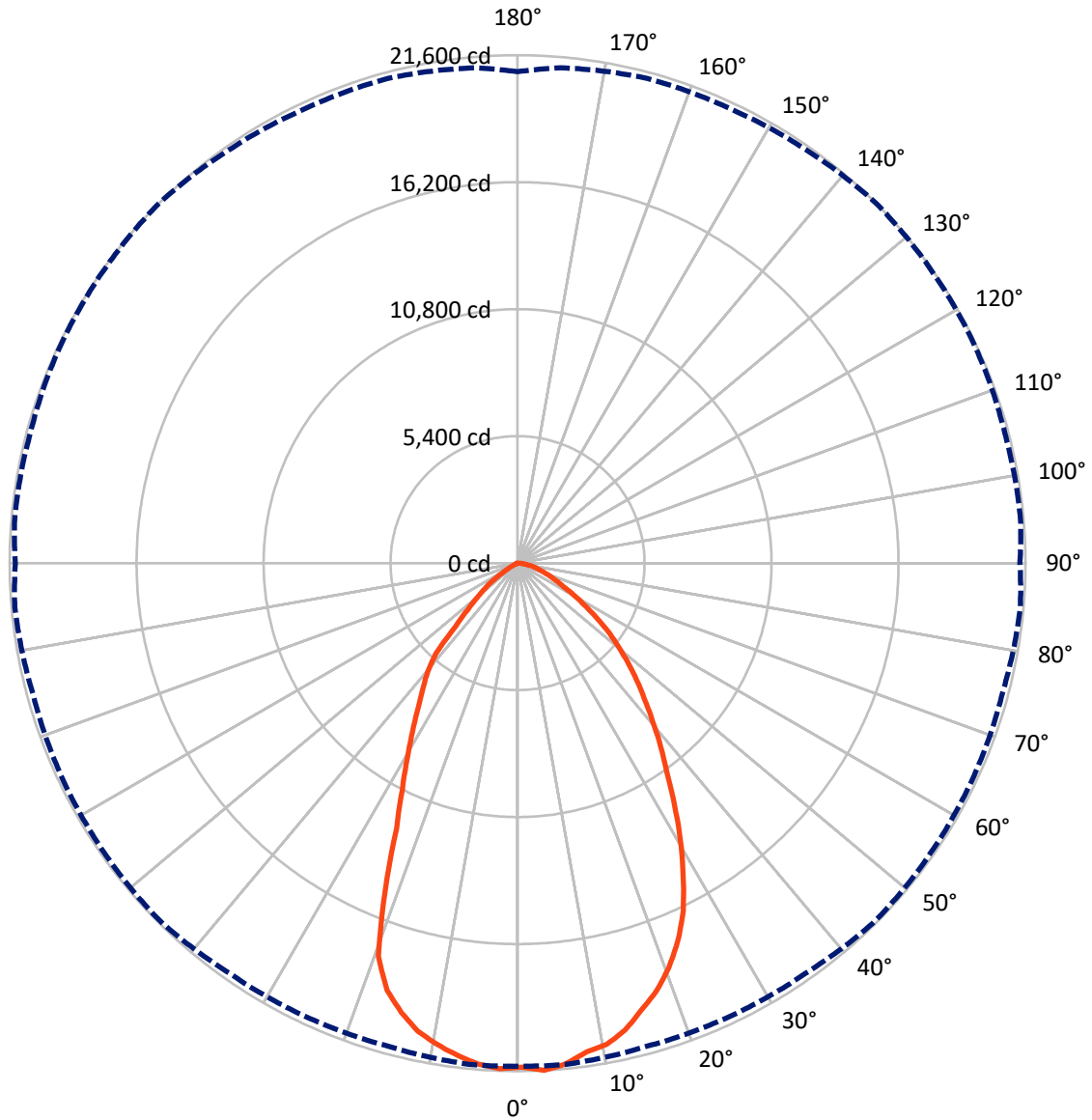
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 53.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16677.6	0.0	16677.6
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	11482.1	0.0	11482.1
	% Fixture	40.8	0.0	40.8
Total	Lumens	28159.7	0.0	28159.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2009.7	7.1
10°-20°	5389.2	19.1
20°-30°	6572.5	23.3
30°-40°	6000.6	21.3
40°-50°	4336.5	15.4
50°-60°	2367.8	8.4
60°-70°	979.0	3.5
70°-80°	396.5	1.4
80°-90°	107.9	0.4
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°	28159.7	100.0
0°-180°	28159.7	100.0



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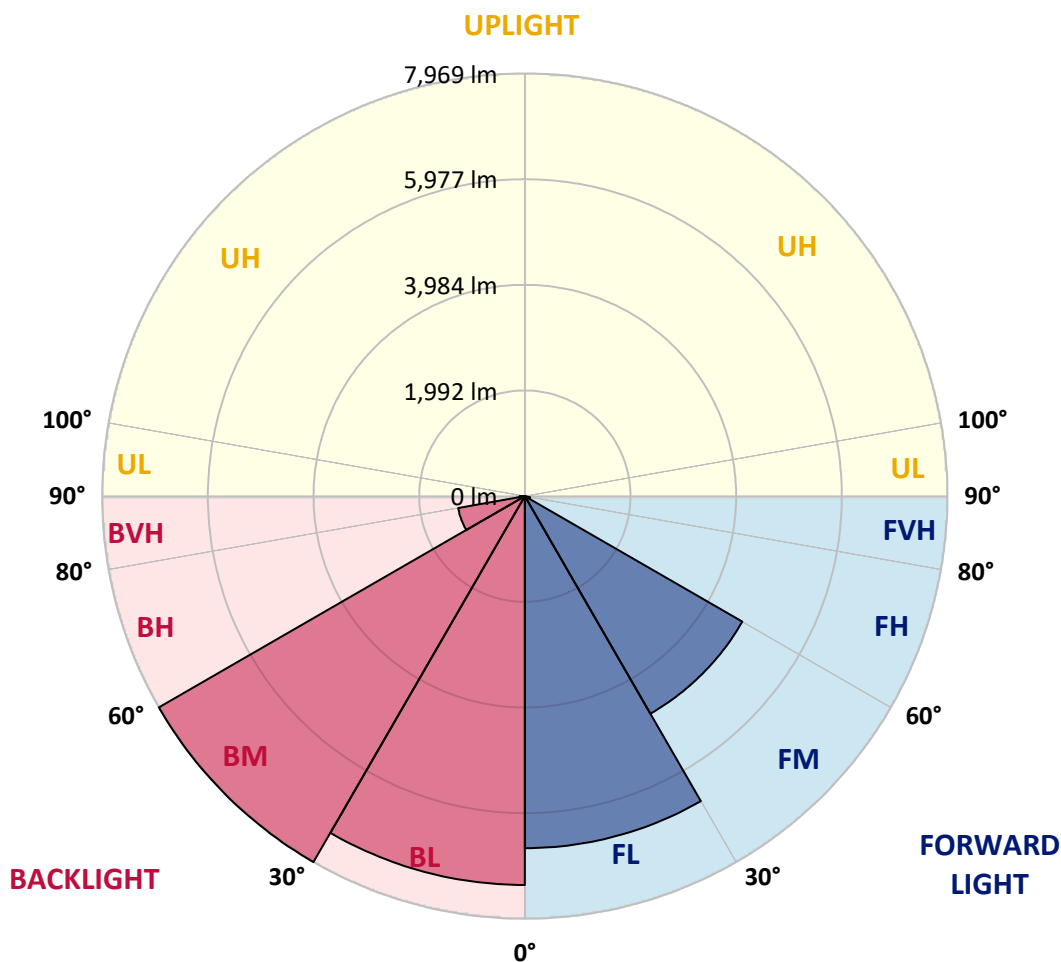
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6638.3	23.6			
FM (30°-60°)	4735.9	16.8			
FH (60°-80°)	99.2	0.4			G0/660
FVH (80°-90°)	8.6	0.0			G0/10
BL (0°-30°)	7333.2	26.0	B5		
BM (30°-60°)	7969.0	28.3	B4/8500		
BH (60°-80°)	1276.3	4.5	B3/2500		G3/2500
BVH (80°-90°)	99.2	0.4			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°	21429.4	21429.4	21429.4	21429.4	21429.4	21429.4	21429.4	21429.4	21429.4	21429.4
2.5°	21389.8	21417.5	21266.8	21282.7	21310.5	21512.7	21461.1	21413.6	21346.1	21461.1
5°	21362.0	21377.9	21219.3	21163.7	21187.5	21369.9	21203.4	21203.4	21187.5	21167.7
7.5°	21147.9	21155.8	21032.9	20933.7	20997.2	21080.5	20957.5	21017.0	20929.8	20997.2
10°	20826.7	20775.1	20628.4	20600.6	20672.0	20751.3	20668.1	20723.6	20644.3	20695.8
12.5°	20354.8	20275.5	20156.5	20120.8	20243.7	20350.8	20283.4	20251.7	20148.6	20275.5
15°	18534.6	18475.1	18744.8	19216.7	19641.0	19732.2	19660.8	19692.5	19478.4	19514.1
17.5°	15255.2	15144.1	15433.6	16551.9	18146.0	18986.7	18923.2	18717.0	18399.8	18471.2
20°	13863.3	13831.6	13799.9	14065.5	15179.8	17729.6	17816.9	17293.4	16841.4	16742.2
22.5°	13078.1	13066.2	13034.5	13094.0	13387.4	15025.2	16024.5	15540.7	15239.3	15211.6
25°	12360.4	12340.6	12245.4	12320.7	12320.7	12415.9	13696.7	13990.2	13724.5	13692.8
27.5°	11630.7	11595.0	11579.2	11614.9	11432.5	10790.1	11115.2	12546.8	12408.0	12415.9
30°	10841.6	10829.7	10786.1	10861.4	10298.3	9501.3	9295.1	11238.2	11265.9	11258.0
32.5°	9667.8	9719.4	9917.7	10000.9	9073.0	8414.7	8069.7	9723.3	10290.4	10278.5
35°	7022.9	7022.9	7669.2	8870.8	7950.8	7455.1	7268.7	8244.2	9326.8	9366.5
37.5°	5773.7	5793.6	5920.5	6467.7	6860.3	6685.8	6630.3	6939.6	8089.6	8153.0
40°	5194.8	5194.8	5194.8	4968.7	4956.8	6023.6	5991.8	5892.7	6987.2	7126.0
42.5°	4667.4	4679.3	4687.2	4116.2	3798.9	5206.7	5135.3	4984.6	5999.8	6162.3
45°	4124.1	4143.9	4167.7	3442.0	3303.2	3747.4	4346.2	4179.6	5024.3	5234.4
47.5°	2518.1	2549.8	3089.1	2918.6	2934.5	2890.8	3545.1	3517.4	4120.1	4417.5
50°	1701.2	1713.1	1764.6	1851.9	2518.1	2272.2	2510.1	2910.7	3128.8	3580.8
52.5°	1427.6	1447.4	1320.5	1201.5	1653.6	1776.5	1752.7	2161.2	2248.4	2807.6
55°	1003.3	1066.7	1007.2	995.3	939.8	1380.0	1328.4	1661.5	1717.1	2133.4
57.5°	103.1	119.0	206.2	741.5	614.6	781.2	947.7	1217.4	1272.9	1574.3
60°	7.9	7.9	19.8	103.1	448.1	467.9	654.3	749.5	856.5	1098.4
62.5°	0.0	4.0	7.9	15.9	71.4	249.8	329.1	392.6	515.5	709.8
65°	0.0	0.0	4.0	11.9	15.9	95.2	126.9	206.2	281.5	440.2
67.5°	0.0	0.0	4.0	7.9	11.9	23.8	43.6	75.3	150.7	249.8
70°	0.0	0.0	4.0	7.9	11.9	19.8	31.7	47.6	67.4	134.8
72.5°	0.0	0.0	4.0	4.0	7.9	19.8	23.8	31.7	47.6	67.4
75°	0.0	0.0	4.0	4.0	11.9	23.8	19.8	23.8	31.7	43.6
77.5°	0.0	0.0	4.0	7.9	11.9	23.8	19.8	23.8	23.8	27.8
80°	0.0	0.0	4.0	7.9	15.9	27.8	23.8	23.8	19.8	19.8
82.5°	0.0	0.0	4.0	11.9	15.9	35.7	35.7	31.7	15.9	11.9
85°	0.0	0.0	7.9	15.9	23.8	39.7	39.7	31.7	11.9	7.9
87.5°	0.0	0.0	7.9	11.9	19.8	27.8	39.7	31.7	11.9	4.0
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°
21429.4	0°	21429.4	21429.4	21429.4	21429.4	21429.4	21429.4	21429.4	21429.4	21429.4
21362.0	2.5°	21469.1	21445.3	21524.6	21556.3	21599.9	21433.4	21330.3	21334.3	21143.9
21120.1	5°	21247.0	21251.0	21354.1	21346.1	21389.8	21298.6	21258.9	21191.5	21024.9
20814.8	7.5°	20965.5	20929.8	21028.9	21104.3	20993.2	21056.7	20965.5	20997.2	20898.1
20545.1	10°	20747.4	20664.1	20755.3	20806.8	20810.8	20747.4	20660.1	20576.8	20541.2
20124.8	12.5°	20263.6	20156.5	20311.2	20382.5	20370.6	20247.7	20148.6	20168.4	20053.4
19387.2	15°	19597.4	19601.3	19712.4	19779.8	19716.3	19688.6	19696.5	19648.9	19549.8
18368.1	17.5°	18578.2	18637.7	18931.2	19093.8	19129.4	19073.9	19046.2	18990.7	18891.5
16742.2	20°	16881.0	17237.9	17761.4	18265.0	18364.1	18348.3	18249.1	18225.3	18169.8
15132.3	22.5°	15390.0	15655.7	16262.4	17047.6	17452.1	17491.7	17372.7	17337.1	17277.6
13692.8	25°	13847.4	14133.0	14680.2	15532.8	16369.5	16540.0	16520.2	16413.1	16349.7
12415.9	27.5°	12546.8	12832.3	13328.0	14097.3	14993.5	15540.7	15592.2	15421.7	15417.8
11277.8	30°	11373.0	11765.6	12142.3	12768.8	13637.3	14458.1	14545.4	14426.4	14438.3
10234.9	32.5°	10453.0	10778.2	11099.4	11519.7	12241.4	13197.1	13538.1	13427.1	13383.5
9366.5	35°	9513.2	9735.2	10064.4	10449.0	10940.7	11888.5	12479.3	12396.1	12352.5
8192.7	37.5°	8442.5	8823.2	9061.1	9493.3	9878.0	10631.4	11464.2	11452.3	11361.1
7193.4	40°	7344.1	7744.6	8105.4	8541.6	8839.0	9437.8	10361.8	10357.8	10369.7
6158.4	42.5°	6348.7	6717.5	7153.7	7629.6	7915.1	8351.3	9342.7	9398.2	9465.6
5305.8	45°	5448.6	5781.7	6186.1	6765.1	7110.1	7359.9	8240.3	8494.0	8490.1
4544.4	47.5°	4639.6	4952.9	5293.9	5857.0	6297.2	6523.2	7252.9	7613.7	7589.9
3727.5	50°	3894.1	4171.7	4528.6	4937.0	5527.9	5726.1	6269.4	6745.3	6709.6
2970.1	52.5°	3132.7	3517.4	3818.8	4191.5	4814.1	5008.4	5428.7	5892.7	5864.9
2228.6	55°	2442.7	2815.5	3180.3	3501.5	4025.0	4314.4	4615.8	5091.7	5083.7
1744.8	57.5°	1847.9	2256.4	2601.4	2906.7	3323.1	3680.0	3921.9	4354.1	4409.6
1193.6	60°	1368.1	1681.4	2054.1	2395.1	2724.3	3093.1	3255.7	3680.0	3703.8
816.9	62.5°	931.9	1276.9	1641.7	1951.0	2196.9	2577.6	2724.3	3073.2	3116.9
523.4	65°	646.4	868.4	1284.8	1506.9	1808.3	2133.4	2280.1	2557.7	2645.0
301.4	67.5°	428.3	618.6	1003.3	1205.5	1502.9	1725.0	1911.4	2137.4	2232.6
190.3	70°	234.0	456.0	717.8	951.7	1209.5	1423.6	1606.0	1788.4	1871.7
87.2	72.5°	158.6	305.3	499.6	753.4	975.5	1185.7	1348.3	1483.1	1487.1
51.6	75°	79.3	206.2	380.7	582.9	761.4	967.6	1114.3	1193.6	1098.4
31.7	77.5°	47.6	150.7	309.3	467.9	618.6	781.2	864.5	908.1	753.4
23.8	80°	27.8	107.1	241.9	372.8	428.3	575.0	654.3	666.2	503.6
15.9	82.5°	19.8	79.3	190.3	273.6	261.7	404.5	491.7	475.9	321.2
11.9	85°	11.9	55.5	119.0	170.5	158.6	265.7	285.5	293.4	186.4
7.9	87.5°	7.9	31.7	63.4	91.2	75.3	115.0	115.0	138.8	91.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
21429.4
20898.1
20985.3
20731.5
20382.5
19954.3
19450.7
18847.9
18042.9
17261.7
16282.2
15409.8
14378.8
13387.4
12293.0
11436.4
10369.7
9429.9
8498.0
7597.8
6741.3
5924.4
5103.6
4385.8
3739.4
3124.8
2625.1
2220.7
1840.0
1451.4
1027.1
725.7
471.9
297.4
170.5
79.3
0.0

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