

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: P637949

Luminaire Tested: **IFLD-L-SA7D-750-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637949
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-750-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42073 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

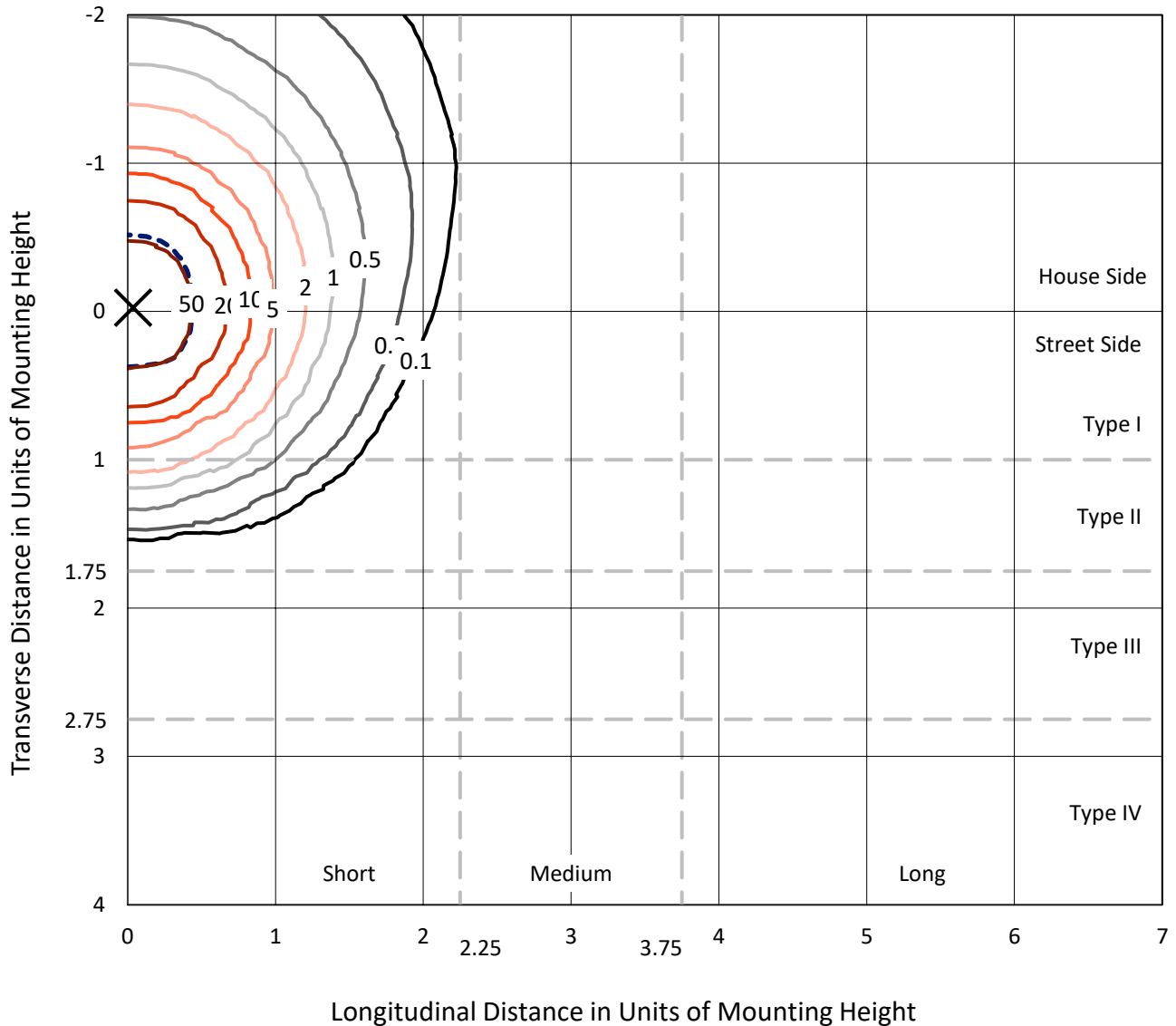
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

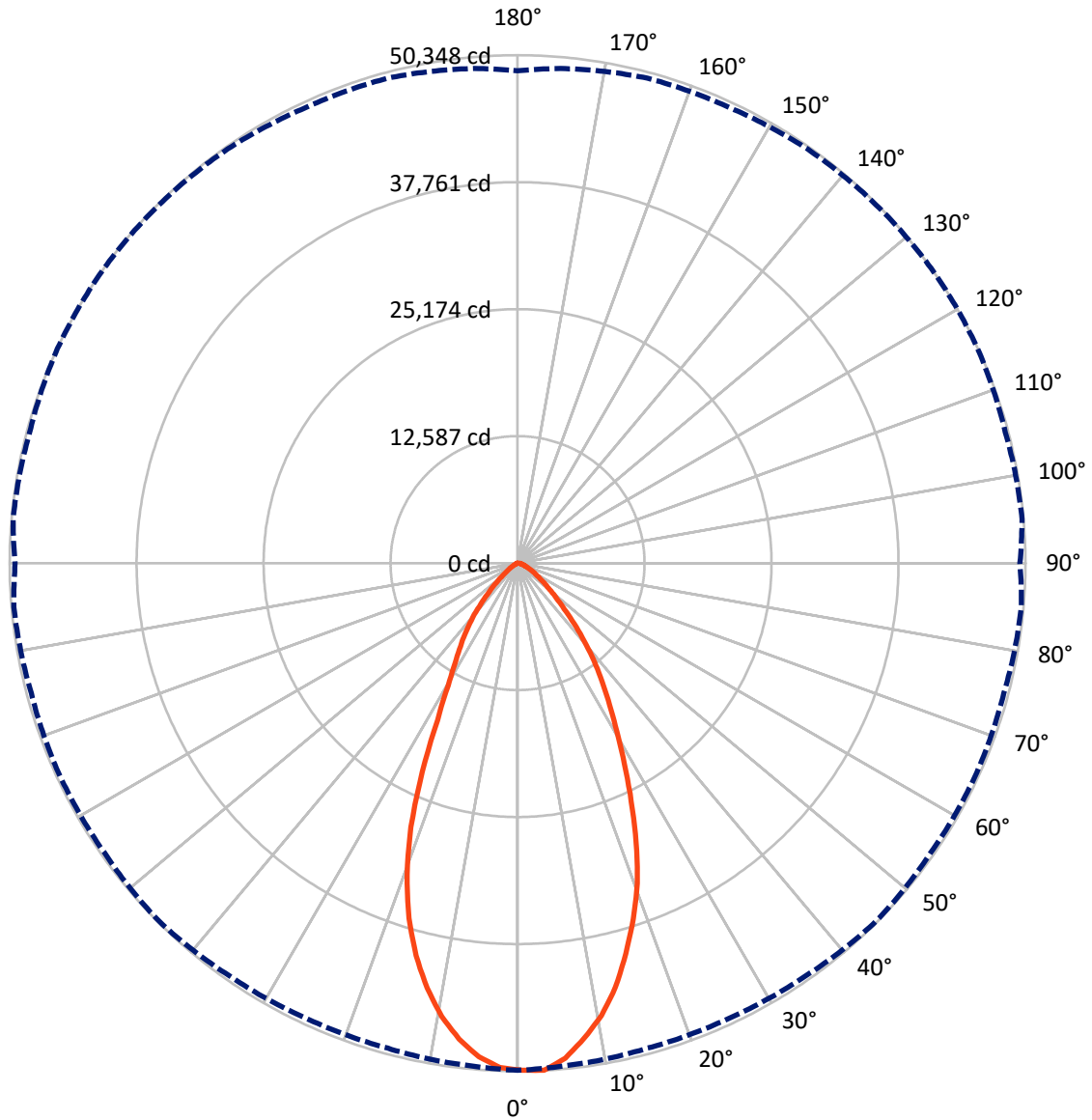
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 125.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23873.9	0.0	23873.9
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	18199.1	0.0	18199.1
	% Fixture	43.3	0.0	43.3
Total	Lumens	42073.0	0.0	42073.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4564.4	10.8
10°-20°	10880.6	25.9
20°-30°	11081.7	26.3
30°-40°	8263.6	19.6
40°-50°	4317.1	10.3
50°-60°	1815.8	4.3
60°-70°	741.6	1.8
70°-80°	312.1	0.7
80°-90°	96.1	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°	42073.0	100.0
0°-180°	42073.0	100.0



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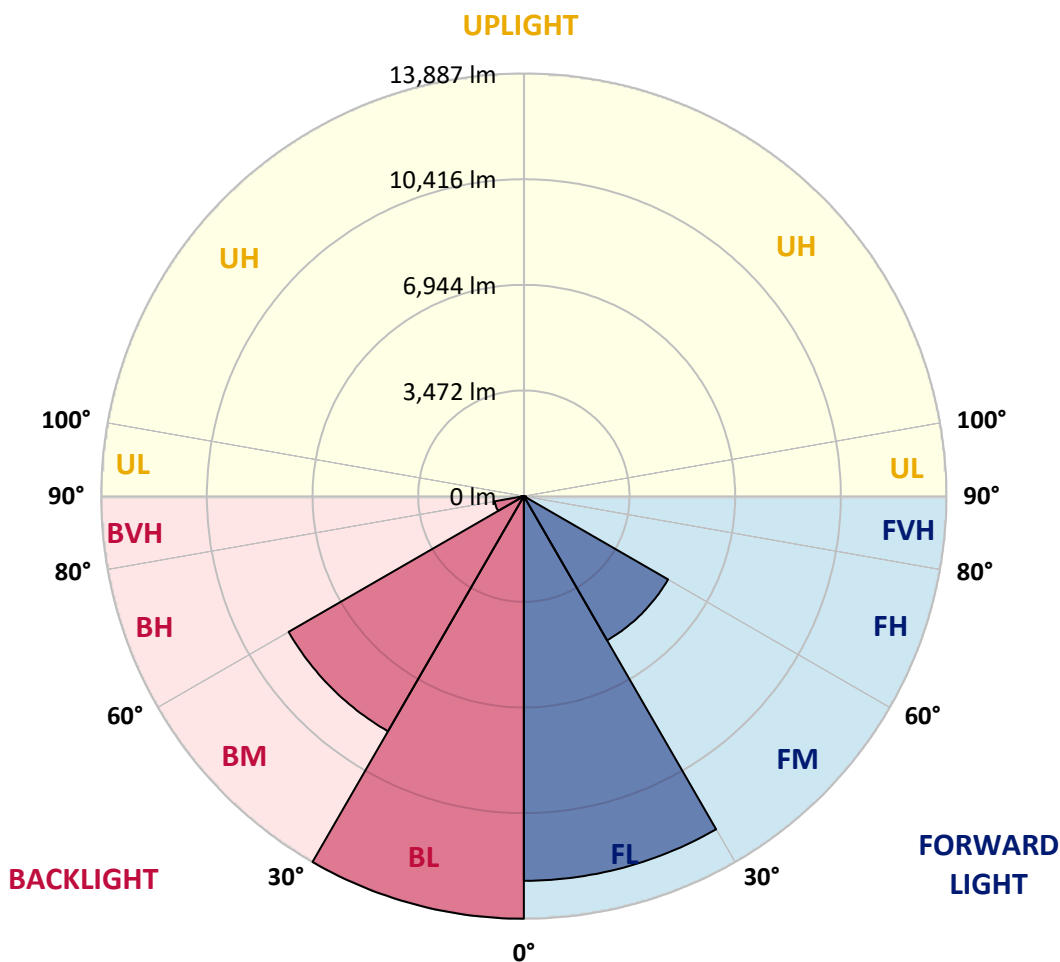
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12639.3	30.0			
FM (30°-60°)	5471.8	13.0			
FH (60°-80°)	79.2	0.2			G0/660
FVH (80°-90°)	8.9	0.0			G0/10
BL (0°-30°)	13887.5	33.0	B5		
BM (30°-60°)	8924.7	21.2	B5		
BH (60°-80°)	974.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	87.2	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	50267.1	50267.1	50267.1	50267.1	50267.1	50267.1	50267.1	50267.1	50267.1	50267.1
2.5°	50272.5	50067.1	49775.3	49748.2	49899.6	50229.2	50018.5	50029.3	49899.6	50121.1
5°	49483.4	49288.9	49088.9	48824.1	49045.7	49186.2	49078.1	48959.2	48791.6	49007.8
7.5°	47991.8	47883.7	47586.4	47467.5	47602.7	47759.4	47527.0	47494.6	47262.2	47543.2
10°	45711.1	45667.9	45376.0	45305.8	45424.7	45662.4	45559.8	45538.1	45392.2	45365.2
12.5°	43343.9	43176.4	42814.3	42792.7	42971.0	43327.7	43052.1	42787.3	42868.3	42938.6
15°	37247.7	37069.3	37966.5	39377.0	40117.5	40090.4	40171.5	39852.6	39755.4	39787.8
17.5°	29611.1	29308.5	29632.8	31816.2	35334.5	37377.4	36815.3	36128.9	35761.4	35518.2
20°	25557.8	25574.0	25514.5	26076.6	28270.8	32929.5	32794.4	31470.3	30989.3	30789.3
22.5°	23093.3	23001.5	22871.8	23050.1	23639.2	26373.9	28206.0	26990.0	26822.4	26600.8
25°	20677.5	20677.5	20520.8	20699.2	20866.7	20904.5	22742.1	23239.3	22915.0	22915.0
27.5°	18586.0	18477.9	18407.7	18488.7	18267.1	17202.5	17434.9	19980.4	19758.8	19623.7
30°	16510.7	16478.3	16359.4	16467.4	15646.0	14446.2	13959.8	16862.0	17094.4	17045.7
32.5°	13630.1	13759.8	14289.4	14457.0	13051.8	12084.4	11619.6	13997.6	14927.2	14889.3
35°	9263.3	9371.4	9976.7	11976.3	10819.8	10128.0	9992.9	11133.2	12662.7	12808.6
37.5°	7377.1	7360.9	7533.8	7890.5	8695.8	8528.3	8490.4	8787.7	10328.0	10392.8
40°	6080.0	6058.4	6053.0	5761.2	5561.2	7090.7	6988.0	6809.6	8144.6	8274.3
42.5°	4901.9	4923.5	4939.7	4302.0	4010.1	5469.3	5409.9	5226.1	6388.1	6539.4
45°	3848.0	3842.6	3875.0	3204.9	3123.8	3496.7	4042.6	3896.6	4820.8	4982.9
47.5°	1994.3	2064.5	2502.3	2480.7	2518.5	2480.7	3058.9	3021.1	3626.4	3885.8
50°	1340.3	1361.9	1399.8	1405.2	1983.4	1826.7	2075.3	2350.9	2540.1	2940.0
52.5°	1037.7	1053.9	956.6	897.1	1216.0	1351.1	1361.9	1626.7	1772.7	2178.0
55°	578.3	648.5	697.2	702.6	670.2	999.8	994.4	1205.2	1318.7	1588.9
57.5°	75.7	91.9	140.5	454.0	448.6	556.7	697.2	875.5	940.4	1162.0
60°	5.4	10.8	16.2	70.3	297.2	324.3	475.6	545.9	653.9	816.1
62.5°	0.0	0.0	5.4	16.2	59.4	189.2	248.6	286.4	383.7	535.0
65°	0.0	0.0	5.4	10.8	21.6	70.3	97.3	156.7	227.0	329.7
67.5°	0.0	0.0	5.4	10.8	16.2	27.0	43.2	70.3	118.9	200.0
70°	0.0	0.0	5.4	10.8	16.2	21.6	32.4	43.2	64.9	108.1
72.5°	0.0	0.0	5.4	5.4	10.8	27.0	27.0	32.4	43.2	59.4
75°	0.0	0.0	5.4	10.8	16.2	27.0	27.0	27.0	32.4	37.8
77.5°	0.0	0.0	5.4	10.8	16.2	27.0	21.6	27.0	27.0	27.0
80°	0.0	0.0	5.4	10.8	16.2	27.0	32.4	27.0	21.6	21.6
82.5°	0.0	0.0	5.4	16.2	16.2	37.8	37.8	37.8	16.2	16.2
85°	0.0	0.0	10.8	16.2	27.0	43.2	43.2	32.4	16.2	10.8
87.5°	0.0	0.0	5.4	10.8	10.8	21.6	32.4	27.0	10.8	5.4
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°
50267.1	0°	50267.1	50267.1	50267.1	50267.1	50267.1	50267.1	50267.1	50267.1	50267.1
49796.9	2.5°	50196.8	50061.7	50315.7	50348.1	50240.0	50104.9	49791.5	49764.4	49218.6
48694.4	5°	49245.6	49024.0	49186.2	49294.3	49256.4	49110.5	48980.8	48861.9	48370.1
46905.5	7.5°	47473.0	47391.9	47467.5	47548.6	47705.3	47548.6	47494.6	47370.3	46883.9
45143.6	10°	45505.7	45354.4	45640.8	45603.0	45559.8	45516.5	45289.5	45311.2	44738.3
42744.0	12.5°	43089.9	42835.9	43111.5	43144.0	43111.5	42960.2	42706.2	42814.3	42290.1
39501.3	15°	39841.8	39814.8	40014.8	40144.5	40236.4	40074.2	39987.7	40041.8	39728.3
35329.1	17.5°	35853.3	36204.6	36858.6	37080.1	37085.5	37253.1	37204.4	37139.6	36907.2
30708.3	20°	31162.2	31837.8	32843.0	33875.3	34172.5	34032.0	33967.2	34086.1	33740.2
26368.5	22.5°	26833.2	27411.5	28578.9	30086.7	30956.9	31043.3	31027.1	30924.4	30789.3
22893.4	25°	23158.2	23671.6	24790.3	26168.5	27838.5	28087.1	28097.9	28065.5	27946.6
19742.6	27.5°	20056.0	20677.5	21293.7	22525.9	24303.9	25330.8	25201.1	25163.3	25120.0
17083.6	30°	17245.7	18029.3	18607.6	19375.1	20969.4	22358.3	22493.4	22428.6	22325.9
14883.9	32.5°	15019.0	15483.8	16218.8	16737.7	17883.4	19456.1	19975.0	19926.3	19834.4
12900.5	35°	13084.2	13268.0	13846.3	14424.6	15186.6	16710.7	17478.1	17370.0	17353.8
10511.7	37.5°	10776.5	11392.6	11711.5	12295.2	12830.2	14013.8	15073.1	15024.5	15029.9
8452.6	40°	8701.2	9057.9	9690.2	10182.0	10673.8	11538.6	12716.7	12749.2	12738.4
6544.8	42.5°	6679.9	7025.8	7690.6	8225.6	8663.4	9198.4	10322.6	10360.4	10409.0
5096.4	45°	5215.3	5436.9	5923.3	6480.0	6944.8	7269.0	8122.9	8366.1	8371.5
3950.7	47.5°	4048.0	4302.0	4647.9	5182.9	5636.9	5869.3	6490.8	6820.5	6804.2
3031.9	50°	3177.8	3410.2	3691.3	4112.8	4604.6	4788.4	5247.7	5572.0	5555.8
2286.1	52.5°	2432.0	2729.3	2977.9	3302.1	3783.1	3939.9	4269.5	4642.4	4588.4
1675.4	55°	1842.9	2145.6	2378.0	2648.2	3086.0	3285.9	3512.9	3810.2	3821.0
1297.1	57.5°	1389.0	1702.4	1913.2	2188.8	2518.5	2740.1	2913.0	3231.9	3226.5
886.3	60°	994.4	1264.6	1518.7	1805.1	2059.1	2313.1	2432.0	2734.7	2745.5
626.9	62.5°	718.8	972.8	1216.0	1464.6	1691.6	1940.2	2048.3	2286.1	2318.5
410.7	65°	502.6	681.0	962.0	1151.2	1405.2	1588.9	1729.4	1934.8	1972.6
243.2	67.5°	324.3	491.8	762.0	929.6	1162.0	1318.7	1464.6	1626.7	1675.4
156.7	70°	194.6	372.9	567.5	745.8	956.6	1097.1	1237.6	1378.1	1405.2
75.7	72.5°	124.3	259.4	410.7	605.3	767.4	918.8	1043.1	1145.7	1064.7
48.6	75°	70.3	178.3	324.3	475.6	621.5	767.4	870.1	924.2	740.4
32.4	77.5°	43.2	129.7	264.8	383.7	481.0	616.1	681.0	713.4	529.6
21.6	80°	27.0	97.3	221.6	313.5	313.5	454.0	529.6	556.7	383.7
16.2	82.5°	21.6	70.3	172.9	237.8	210.8	340.5	416.1	421.5	270.2
10.8	85°	16.2	54.0	108.1	156.7	145.9	237.8	243.2	270.2	178.3
10.8	87.5°	10.8	32.4	64.9	91.9	81.1	113.5	129.7	145.9	97.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
50267.1
48791.6
47975.6
46781.2
44543.7
42138.7
39350.0
36561.3
33491.6
30529.9
27546.6
24866.0
22196.2
19591.2
17175.4
14856.9
12549.2
10246.9
8231.0
6744.8
5555.8
4593.8
3821.0
3215.7
2718.5
2307.7
1961.8
1670.0
1383.5
989.0
702.6
497.2
356.7
248.6
162.1
86.5
0.0

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