

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: P637416

Luminaire Tested: **IFLD-S-SA6C-750-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637416
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-750-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (96) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40993.7 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

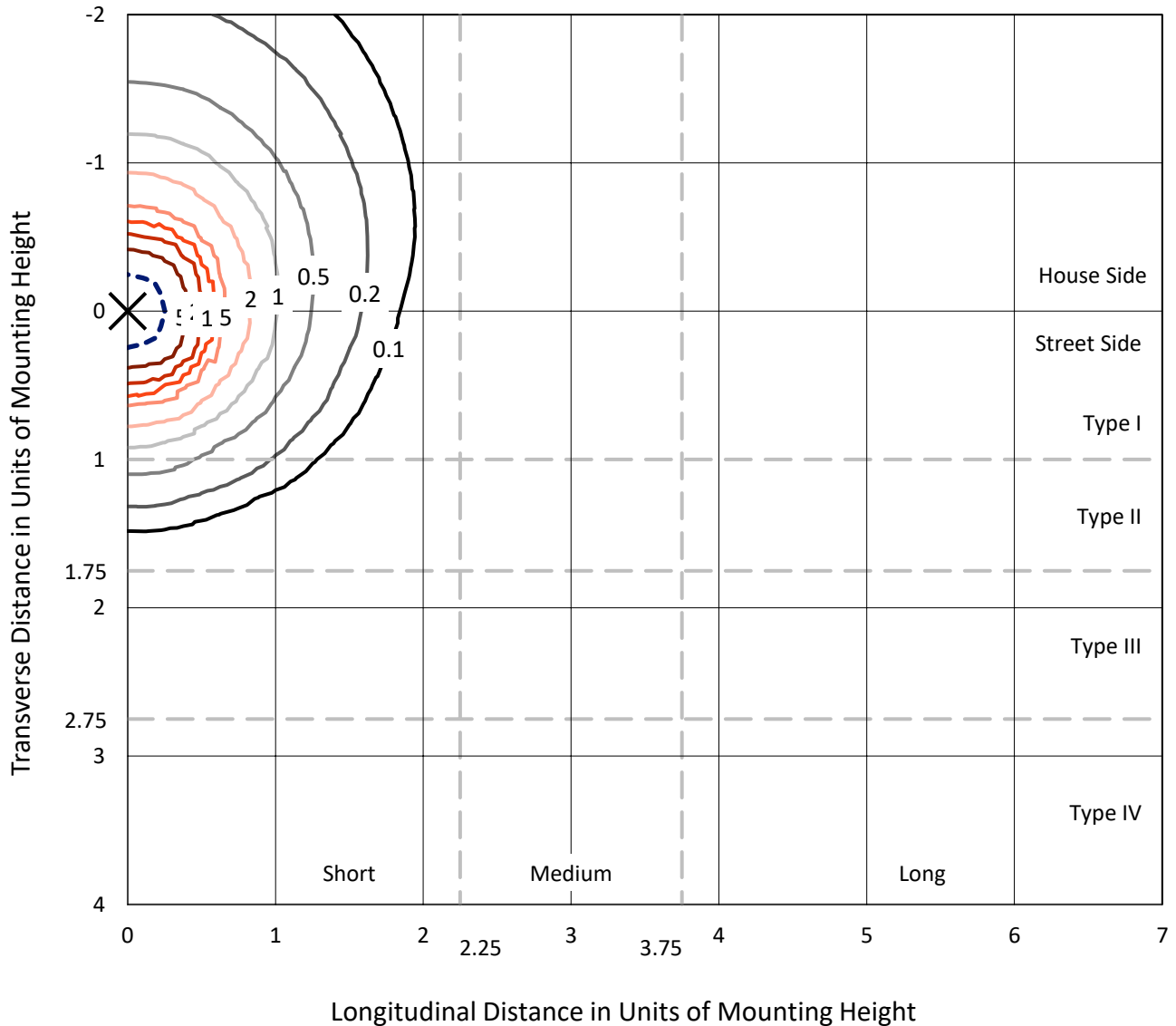
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

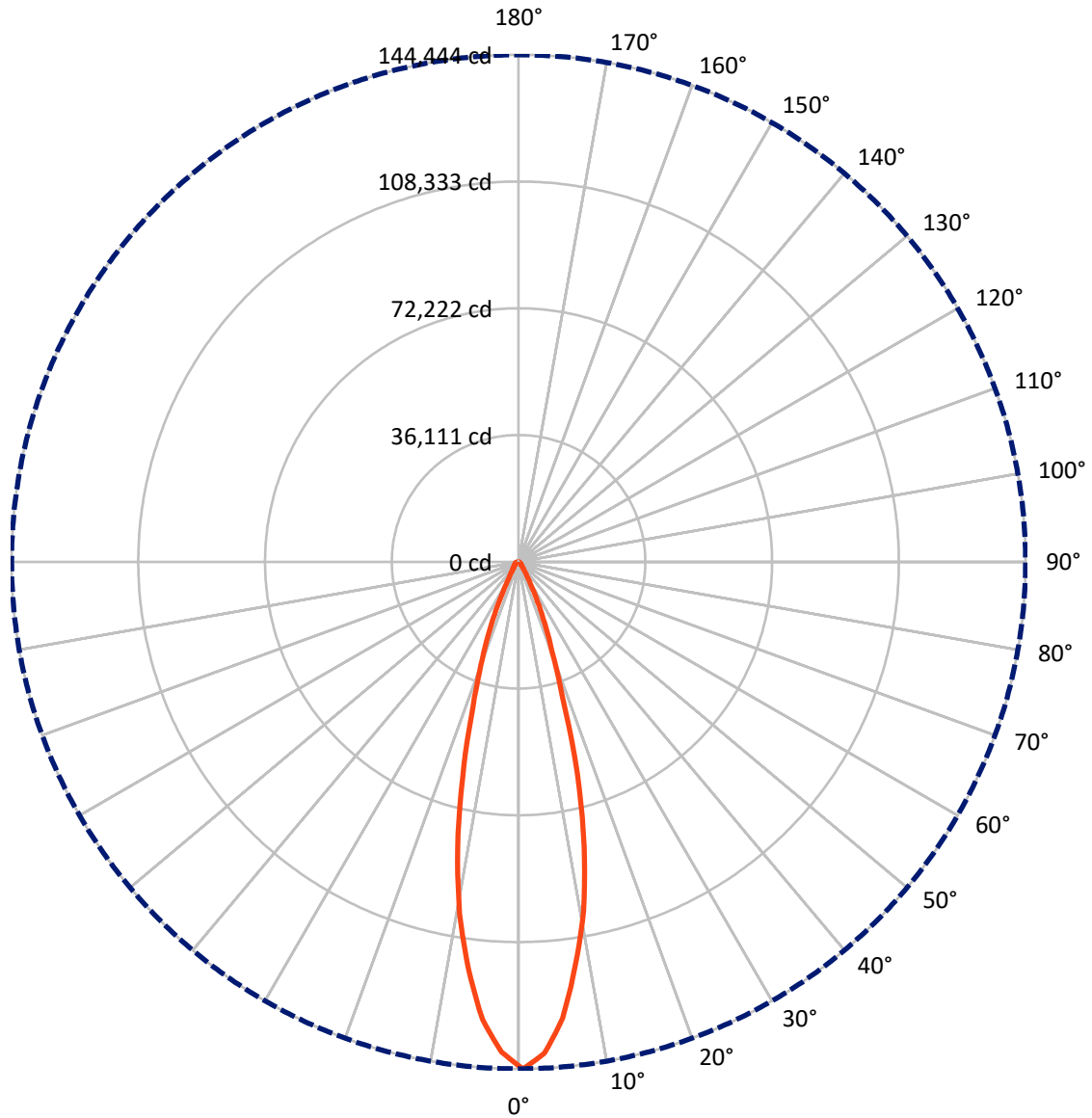
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 361.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21614.7	0.0	21614.7
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	19379.1	0.0	19379.1
	% Fixture	47.3	0.0	47.3
Total	Lumens	40993.7	0.0	40993.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11657.9	28.4
10°-20°	17655.9	43.1
20°-30°	7450.9	18.2
30°-40°	1943.2	4.7
40°-50°	982.9	2.4
50°-60°	642.4	1.6
60°-70°	384.9	0.9
70°-80°	202.5	0.5
80°-90°	73.1	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°	40993.7	100.0
0°-180°	40993.7	100.0

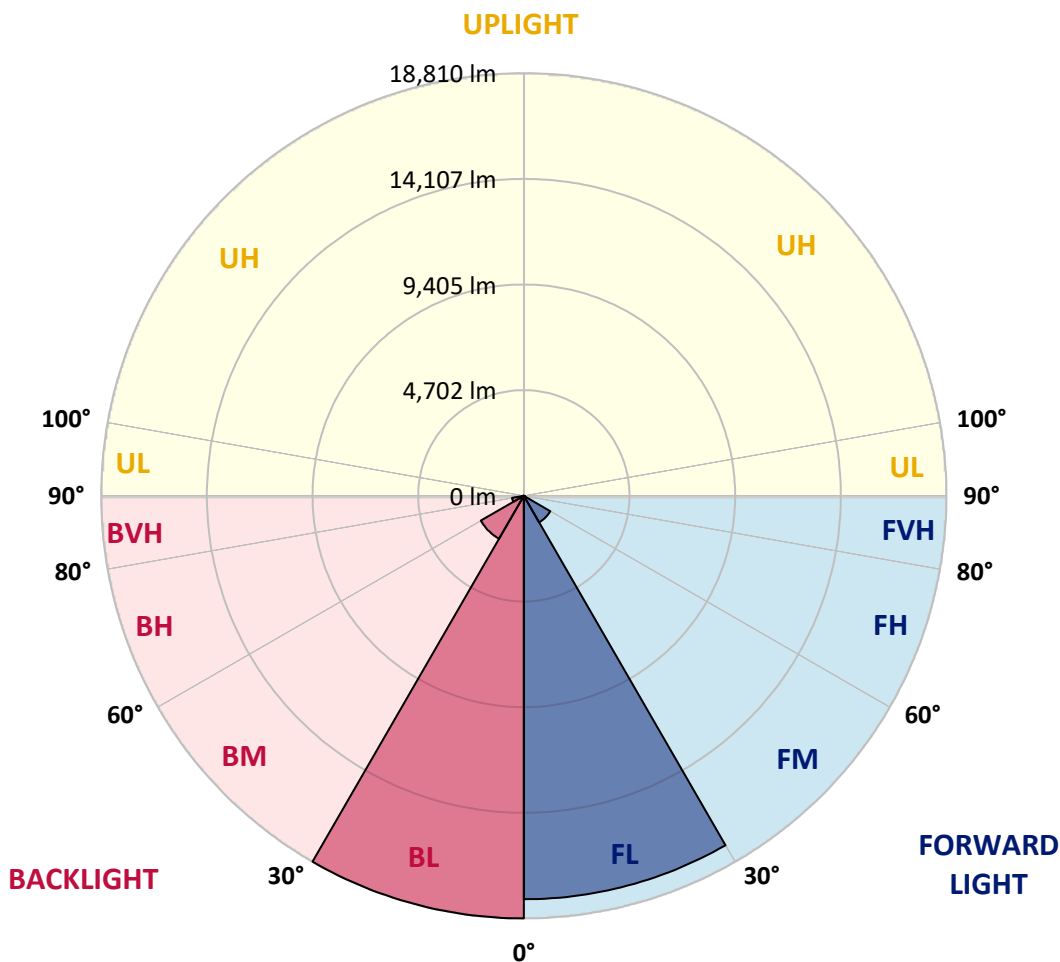


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	17955.0	43.8			
FM (30°-60°)	1359.8	3.3			
FH (60°-80°)	55.4	0.1			G0/660
FVH (80°-90°)	8.9	0.0			G0/10
BL (0°-30°)	18809.7	45.9	B5		
BM (30°-60°)	2208.8	5.4	B2/2500		
BH (60°-80°)	532.0	1.3	B2/1000		G0/660
BVH (80°-90°)	64.2	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-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	144444.3	144444.3	144444.3	144444.3	144444.3	144444.3	144444.3	144444.3	144444.3	144444.3
2.5°	140236.6	140314.8	140024.8	140650.9	140162.9	141470.3	140821.2	141834.0	141493.4	142059.6
5°	130661.0	130532.1	130449.2	131420.6	131139.7	132543.8	131646.1	131351.5	132263.0	132097.3
7.5°	116200.9	116541.5	116348.2	116601.4	116744.1	118346.2	118852.6	118456.7	118470.5	118700.7
10°	101377.1	100875.3	100161.7	100635.9	101639.5	102339.3	102058.4	102638.5	102509.6	103057.4
12.5°	83137.4	83533.3	83132.8	82709.3	84463.3	84269.9	84757.9	85075.6	84279.1	86051.5
15°	62623.5	62830.7	63318.7	63286.5	64635.3	64906.9	64842.5	65178.6	64557.1	64851.7
17.5°	40231.3	40931.1	42243.1	44462.1	46957.3	47247.3	47173.7	46897.4	46598.2	46266.7
20°	27023.5	26949.8	27424.0	28073.1	33238.4	34605.7	34564.2	33698.8	32446.6	32207.2
22.5°	18930.2	19068.3	19003.9	19648.4	20716.5	24486.8	24021.9	23142.6	22732.9	22465.8
25°	12452.9	12402.2	12724.5	12917.9	13834.0	14294.4	15924.0	15597.2	14966.5	15035.5
27.5°	7591.4	7655.9	7775.6	7941.3	8590.4	8443.1	9373.0	9497.3	9294.8	9078.4
30°	4658.9	4704.9	4801.6	4921.3	5146.9	4985.8	5243.6	5690.1	5616.5	5464.5
32.5°	3162.7	3167.3	3236.4	3282.4	3254.8	3102.9	3185.7	3609.3	3618.5	3604.7
35°	2274.2	2274.2	2338.7	2375.5	2297.2	2172.9	2186.7	2449.1	2564.2	2587.3
37.5°	1569.8	1574.5	1684.9	1795.4	1708.0	1675.7	1620.5	1795.4	1979.6	2007.2
40°	1192.3	1187.7	1243.0	1325.9	1335.1	1275.2	1293.6	1404.1	1592.9	1615.9
42.5°	966.8	971.4	999.0	989.8	994.4	1072.7	1100.3	1150.9	1325.9	1367.3
45°	814.8	819.5	833.3	787.2	768.8	888.5	925.3	953.0	1100.3	1150.9
47.5°	672.1	681.3	695.2	644.5	635.3	713.6	778.0	805.6	934.5	989.8
50°	483.4	492.6	543.2	515.6	543.2	561.6	649.1	690.5	778.0	851.7
52.5°	349.9	359.1	372.9	377.5	446.6	455.8	520.2	584.7	626.1	709.0
55°	276.2	285.4	276.2	267.0	326.9	377.5	400.5	469.6	501.8	598.5
57.5°	156.5	165.7	179.5	207.2	216.4	290.0	313.0	372.9	400.5	492.6
60°	27.6	32.2	50.6	124.3	151.9	184.1	234.8	285.4	322.3	386.7
62.5°	4.6	4.6	9.2	27.6	87.5	128.9	170.3	202.6	234.8	294.6
65°	0.0	0.0	4.6	9.2	23.0	73.7	92.1	119.7	161.1	211.8
67.5°	0.0	0.0	4.6	9.2	13.8	27.6	41.4	73.7	92.1	142.7
70°	0.0	0.0	4.6	9.2	13.8	18.4	23.0	32.2	55.2	87.5
72.5°	0.0	0.0	4.6	9.2	13.8	18.4	23.0	27.6	27.6	55.2
75°	0.0	0.0	4.6	9.2	13.8	23.0	27.6	27.6	23.0	23.0
77.5°	0.0	0.0	4.6	9.2	18.4	27.6	32.2	27.6	18.4	18.4
80°	0.0	0.0	9.2	13.8	23.0	32.2	41.4	32.2	18.4	9.2
82.5°	0.0	0.0	9.2	18.4	23.0	36.8	50.6	41.4	18.4	9.2
85°	0.0	0.0	4.6	13.8	27.6	36.8	50.6	36.8	18.4	4.6
87.5°	0.0	0.0	4.6	4.6	9.2	13.8	27.6	23.0	9.2	4.6
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°
144444.3	0°	144444.3	144444.3	144444.3	144444.3	144444.3	144444.3	144444.3	144444.3	144444.3
140987.0	2.5°	141797.2	142533.8	142685.7	142483.1	142777.8	142248.4	141843.2	140793.6	140162.9
132046.7	5°	132898.3	132787.8	133556.7	133809.9	133777.6	133372.5	132806.3	132171.0	131554.1
118254.1	7.5°	118990.7	119133.4	119833.2	120279.7	120054.1	119547.7	119156.4	118677.6	118263.3
103255.4	10°	104199.1	103218.6	104088.7	104088.7	104691.7	103260.0	103393.5	102187.3	102242.6
86019.3	12.5°	86313.9	86668.4	86811.1	87220.9	86516.5	85756.9	84827.0	84642.8	84067.4
64290.1	15°	65215.4	66228.2	65358.1	66845.1	66126.9	65335.1	65192.4	63765.2	64216.4
46630.4	17.5°	46400.2	47518.9	47868.8	48720.5	48066.8	47597.2	47003.3	46570.6	46538.4
32644.5	20°	32902.3	34025.6	34283.4	35305.4	35231.8	35084.5	34582.7	34034.8	33441.0
22221.8	22.5°	22557.9	23474.0	24330.3	25706.8	25683.8	25251.1	25200.4	24427.0	24440.8
15012.5	25°	15169.0	15836.6	16039.1	17447.9	17604.4	17558.3	17295.9	16577.8	16849.4
9170.5	27.5°	9179.7	9764.4	10450.3	10947.5	11417.1	11343.4	11081.0	10680.5	10505.5
5510.6	30°	5657.9	5920.3	6173.5	6772.0	7052.8	7200.1	7075.8	6702.9	6730.5
3627.7	32.5°	3705.9	3926.9	4111.1	4488.6	4635.9	4907.5	4856.9	4778.6	4686.5
2610.3	35°	2702.3	2863.5	2987.8	3162.7	3351.5	3581.6	3618.5	3586.2	3549.4
2016.4	37.5°	2062.4	2228.2	2370.9	2444.5	2591.9	2771.4	2872.7	2868.1	2840.5
1643.5	40°	1675.7	1800.0	1928.9	2025.6	2126.9	2260.4	2384.7	2398.5	2398.5
1381.1	42.5°	1399.5	1505.4	1634.3	1735.6	1809.2	1933.5	2062.4	2071.6	2062.4
1169.3	45°	1197.0	1289.0	1413.3	1533.0	1592.9	1684.9	1809.2	1836.9	1818.4
1003.6	47.5°	1040.4	1123.3	1229.2	1358.1	1422.5	1505.4	1620.5	1652.7	1648.1
865.5	50°	893.1	989.8	1095.7	1201.6	1284.4	1362.7	1473.2	1510.0	1496.2
736.6	52.5°	787.2	874.7	966.8	1081.9	1178.5	1247.6	1335.1	1399.5	1381.1
621.5	55°	658.3	764.2	860.9	957.6	1077.3	1150.9	1233.8	1312.0	1293.6
524.8	57.5°	570.9	658.3	768.8	856.3	976.0	1063.4	1146.3	1229.2	1224.6
428.1	60°	478.8	570.9	676.7	768.8	879.3	976.0	1058.8	1150.9	1160.1
322.3	62.5°	377.5	488.0	580.1	685.9	796.4	902.3	976.0	1068.0	1081.9
244.0	65°	285.4	400.5	501.8	603.1	713.6	828.7	893.1	971.4	985.2
179.5	67.5°	211.8	308.4	428.1	520.2	635.3	745.8	805.6	870.1	893.1
110.5	70°	161.1	234.8	359.1	446.6	566.2	653.7	718.2	773.4	791.8
73.7	72.5°	101.3	184.1	290.0	382.1	488.0	566.2	612.3	644.5	672.1
41.4	75°	69.1	142.7	234.8	326.9	405.1	465.0	506.4	534.0	557.0
18.4	77.5°	41.4	110.5	193.4	271.6	322.3	368.3	409.7	428.1	442.0
13.8	80°	23.0	82.9	161.1	221.0	253.2	285.4	317.7	340.7	349.9
9.2	82.5°	13.8	64.5	128.9	170.3	184.1	216.4	248.6	262.4	262.4
4.6	85°	9.2	46.0	87.5	124.3	133.5	156.5	165.7	174.9	184.1
4.6	87.5°	9.2	27.6	55.2	69.1	73.7	82.9	87.5	96.7	105.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
144444.3
139697.9
130863.5
116859.2
101704.0
83542.5
63765.2
45682.1
33183.1
24173.8
16421.2
10353.6
6610.8
4654.3
3535.6
2826.6
2370.9
2053.2
1818.4
1638.9
1487.0
1376.5
1302.8
1229.2
1164.7
1091.1
999.0
902.3
801.0
667.5
552.4
437.3
340.7
257.8
179.5
101.3
0.0

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