

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: P637316

Luminaire Tested: **IFLD-L-SA8D-727-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637316
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-727-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44965.8 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

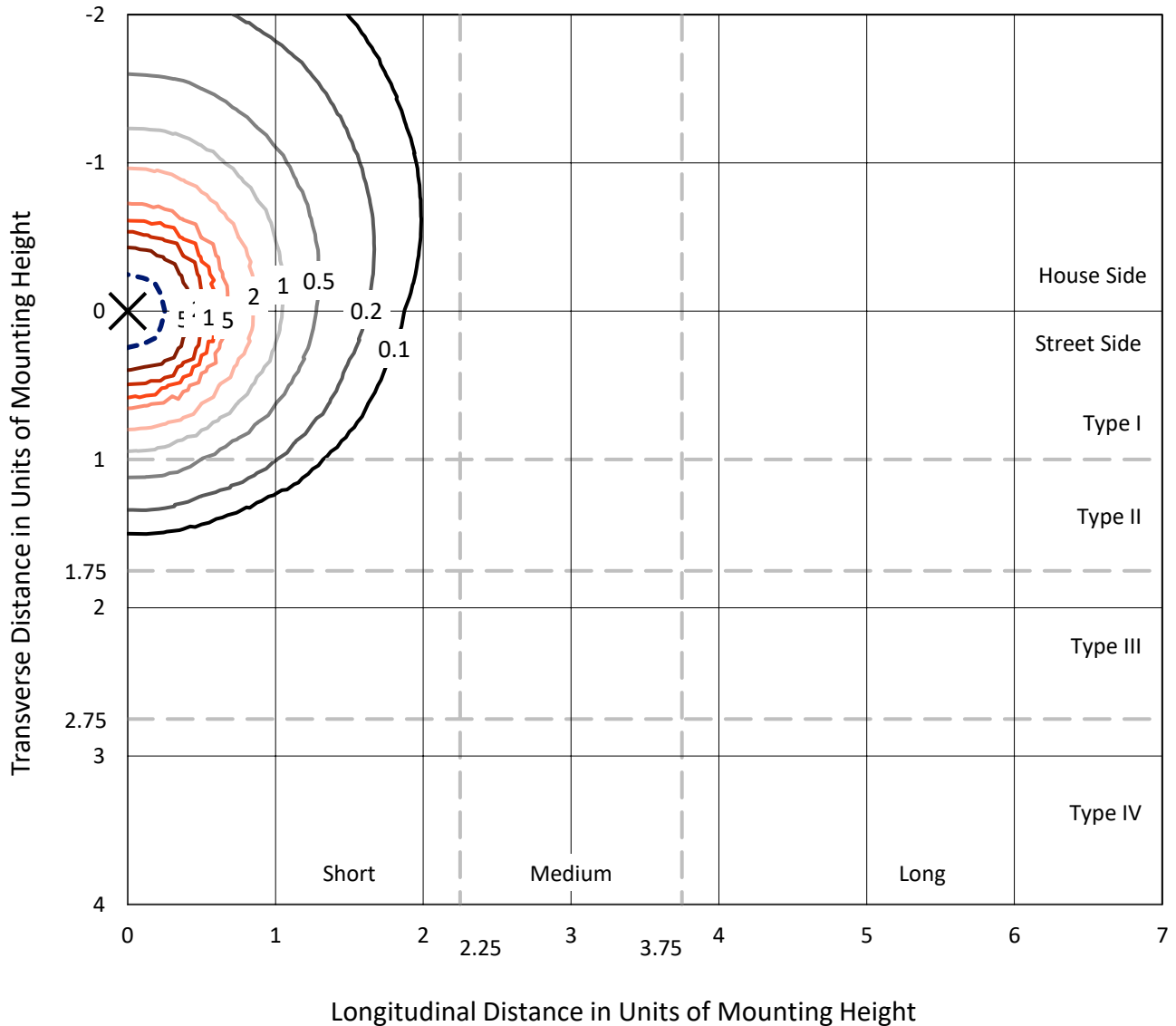
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

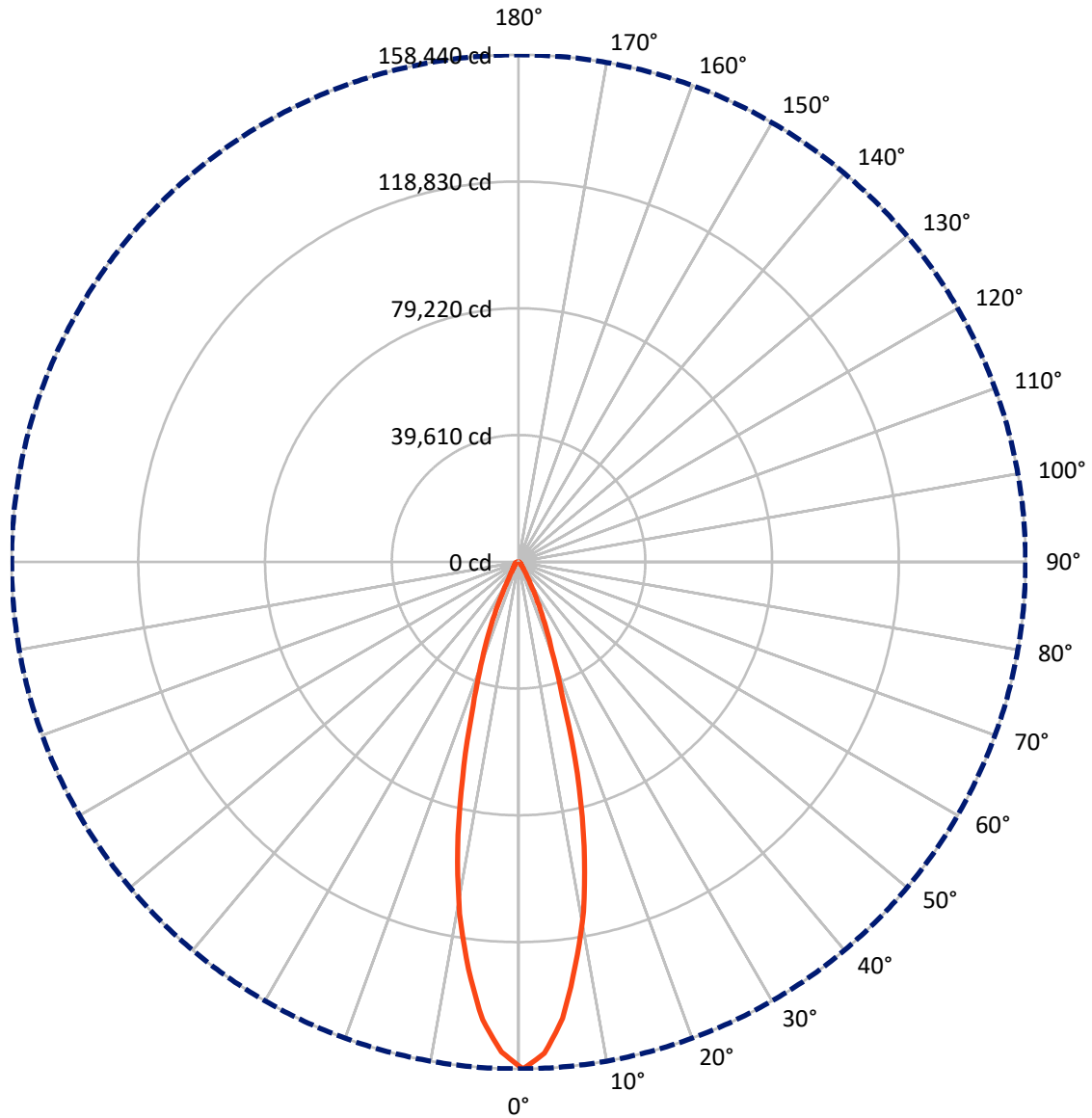
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 396.1 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	23709.0	0.0	23709.0
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	21256.8	0.0	21256.8
	% Fixture	47.3	0.0	47.3
Total	Lumens	44965.8	0.0	44965.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12787.6	28.4
10°-20°	19366.6	43.1
20°-30°	8172.8	18.2
30°-40°	2131.5	4.7
40°-50°	1078.1	2.4
50°-60°	704.7	1.6
60°-70°	422.2	0.9
70°-80°	222.1	0.5
80°-90°	80.2	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°	44965.8	100.0
0°-180°	44965.8	100.0

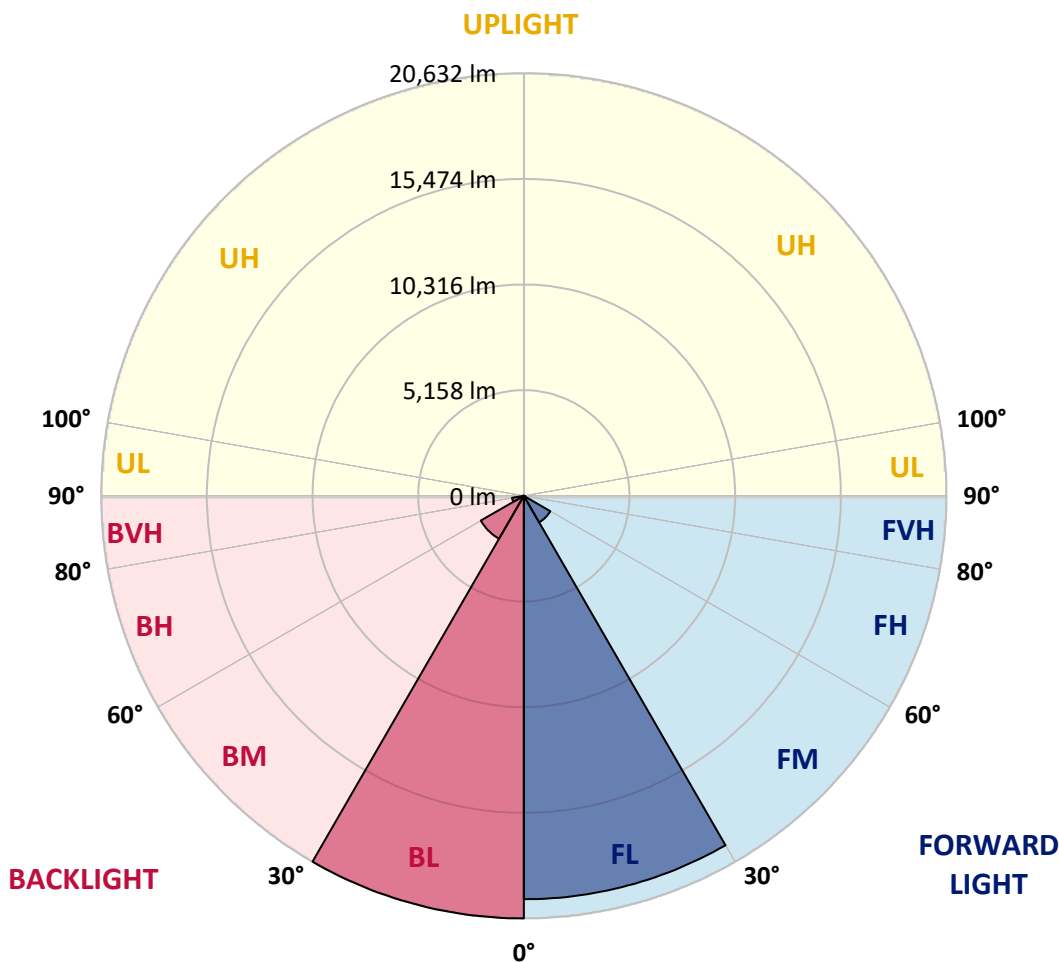


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	19694.8	43.8			
FM (30°-60°)	1491.5	3.3			
FH (60°-80°)	60.8	0.1			G0/660
FVH (80°-90°)	9.7	0.0			G0/10
BL (0°-30°)	20632.2	45.9	B5		
BM (30°-60°)	2422.8	5.4	B2/2500		
BH (60°-80°)	583.5	1.3	B2/1000		G0/660
BVH (80°-90°)	70.5	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°	158440.4	158440.4	158440.4	158440.4	158440.4	158440.4	158440.4	158440.4	158440.4	158440.4
2.5°	153824.9	153910.8	153592.6	154279.4	153744.1	155178.2	154466.2	155577.2	155203.5	155824.6
5°	143321.5	143180.1	143089.2	144154.7	143846.6	145386.8	144402.1	144078.9	145078.8	144897.0
7.5°	127460.3	127833.9	127621.9	127899.6	128056.1	129813.4	130368.9	129934.6	129949.8	130202.3
10°	111200.1	110649.7	109867.0	110387.1	111488.0	112255.5	111947.5	112583.8	112442.4	113043.3
12.5°	91193.1	91627.4	91188.0	90723.5	92647.4	92435.3	92970.6	93319.0	92445.4	94389.6
15°	68691.5	68918.7	69454.0	69418.7	70898.2	71196.2	71125.5	71494.1	70812.4	71135.6
17.5°	44129.6	44897.2	46336.3	48770.3	51507.3	51825.4	51744.6	51441.6	51113.4	50749.8
20°	29641.9	29561.1	30081.2	30793.3	36459.1	37958.8	37913.4	36964.0	35590.5	35327.9
22.5°	20764.5	20916.0	20845.3	21552.3	22723.8	26859.5	26349.5	25385.0	24935.6	24642.7
25°	13659.5	13604.0	13957.5	14169.5	15174.4	15679.4	17467.0	17108.5	16416.7	16492.4
27.5°	8327.0	8397.7	8529.0	8710.8	9422.8	9261.2	10281.3	10417.6	10195.4	9958.1
30°	5110.3	5160.8	5266.9	5398.2	5645.6	5468.9	5751.6	6241.5	6160.7	5994.0
32.5°	3469.2	3474.2	3550.0	3600.5	3570.2	3403.5	3494.4	3959.0	3969.1	3953.9
35°	2494.6	2494.6	2565.3	2605.7	2519.8	2383.5	2398.6	2686.5	2812.7	2837.9
37.5°	1722.0	1727.0	1848.2	1969.4	1873.5	1838.1	1777.5	1969.4	2171.4	2201.7
40°	1307.9	1302.8	1363.4	1454.3	1464.4	1398.8	1419.0	1540.2	1747.2	1772.5
42.5°	1060.4	1065.5	1095.8	1085.7	1090.7	1176.6	1206.9	1262.4	1454.3	1499.8
45°	893.8	898.9	914.0	863.5	843.3	974.6	1015.0	1045.3	1206.9	1262.4
47.5°	737.3	747.4	762.5	707.0	696.9	782.7	853.4	883.7	1025.1	1085.7
50°	530.2	540.3	595.9	565.6	595.9	616.1	712.0	757.5	853.4	934.2
52.5°	383.8	393.9	409.0	414.1	489.8	499.9	570.6	641.3	686.8	777.7
55°	303.0	313.1	303.0	292.9	358.5	414.1	439.3	515.1	550.4	656.5
57.5°	171.7	181.8	196.9	227.2	237.3	318.1	343.4	409.0	439.3	540.3
60°	30.3	35.3	55.5	136.3	166.6	202.0	257.5	313.1	353.5	424.2
62.5°	5.0	5.0	10.1	30.3	95.9	141.4	186.8	222.2	257.5	323.2
65°	0.0	0.0	5.0	10.1	25.2	80.8	101.0	131.3	176.7	232.3
67.5°	0.0	0.0	5.0	10.1	15.1	30.3	45.4	80.8	101.0	156.5
70°	0.0	0.0	5.0	10.1	15.1	20.2	25.2	35.3	60.6	95.9
72.5°	0.0	0.0	5.0	10.1	15.1	20.2	25.2	30.3	30.3	60.6
75°	0.0	0.0	5.0	10.1	15.1	25.2	30.3	30.3	25.2	25.2
77.5°	0.0	0.0	5.0	10.1	20.2	30.3	35.3	30.3	20.2	20.2
80°	0.0	0.0	10.1	15.1	25.2	35.3	45.4	35.3	20.2	10.1
82.5°	0.0	0.0	10.1	20.2	25.2	40.4	55.5	45.4	20.2	10.1
85°	0.0	0.0	5.0	15.1	30.3	40.4	55.5	40.4	20.2	5.0
87.5°	0.0	0.0	5.0	5.0	10.1	15.1	30.3	25.2	10.1	5.0
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°
158440.4	0°	158440.4	158440.4	158440.4	158440.4	158440.4	158440.4	158440.4	158440.4	158440.4
154648.0	2.5°	155536.8	156344.7	156511.4	156289.2	156612.4	156031.6	155587.3	154435.9	153744.1
144841.4	5°	145775.6	145654.4	146497.8	146775.5	146740.1	146295.8	145674.6	144977.8	144301.1
129712.4	7.5°	130520.4	130676.9	131444.5	131934.3	131686.9	131131.4	130702.2	130177.0	129722.5
113260.4	10°	114295.6	113220.0	114174.4	114174.4	114835.9	113265.5	113411.9	112088.9	112149.5
94354.2	12.5°	94677.4	95066.2	95222.8	95672.2	94899.6	94066.4	93046.3	92844.4	92213.1
70519.5	15°	71534.5	72645.4	71691.0	73322.1	72534.3	71665.8	71509.2	69943.8	70438.7
51148.7	17.5°	50896.2	52123.3	52507.1	53441.3	52724.2	52209.2	51557.8	51083.1	51047.7
35807.6	20°	36090.4	37322.6	37605.3	38726.4	38645.6	38484.0	37933.6	37332.7	36681.2
24375.1	22.5°	24743.7	25748.6	26687.8	28197.7	28172.5	27697.8	27642.2	26793.9	26809.0
16467.2	25°	16638.9	17371.1	17593.3	19138.5	19310.2	19259.7	18971.8	18184.1	18482.0
10059.1	27.5°	10069.2	10710.5	11462.9	12008.3	12523.3	12442.5	12154.7	11715.4	11523.5
6044.5	30°	6206.1	6494.0	6771.7	7428.2	7736.2	7897.8	7761.4	7352.4	7382.7
3979.2	32.5°	4065.0	4307.4	4509.4	4923.5	5085.1	5383.0	5327.5	5241.6	5140.6
2863.2	35°	2964.2	3140.9	3277.3	3469.2	3676.2	3928.7	3969.1	3933.7	3893.3
2211.8	37.5°	2262.3	2444.1	2600.6	2681.4	2843.0	3039.9	3151.0	3146.0	3115.7
1802.8	40°	1838.1	1974.4	2115.8	2221.9	2333.0	2479.4	2615.8	2630.9	2630.9
1514.9	42.5°	1535.1	1651.3	1792.7	1903.7	1984.5	2120.9	2262.3	2272.4	2262.3
1282.6	45°	1312.9	1413.9	1550.3	1681.6	1747.2	1848.2	1984.5	2014.8	1994.6
1100.8	47.5°	1141.2	1232.1	1348.3	1489.7	1560.4	1651.3	1777.5	1812.9	1807.8
949.3	50°	979.6	1085.7	1201.8	1318.0	1408.9	1494.7	1615.9	1656.3	1641.2
808.0	52.5°	863.5	959.4	1060.4	1186.7	1292.7	1368.5	1464.4	1535.1	1514.9
681.7	55°	722.1	838.3	944.3	1050.3	1181.6	1262.4	1353.3	1439.2	1419.0
575.7	57.5°	626.2	722.1	843.3	939.3	1070.5	1166.5	1257.4	1348.3	1343.2
469.6	60°	525.2	626.2	742.3	843.3	964.5	1070.5	1161.4	1262.4	1272.5
353.5	62.5°	414.1	535.3	636.3	752.4	873.6	989.7	1070.5	1171.5	1186.7
267.6	65°	313.1	439.3	550.4	661.5	782.7	909.0	979.6	1065.5	1080.6
196.9	67.5°	232.3	338.3	469.6	570.6	696.9	818.1	883.7	954.4	979.6
121.2	70°	176.7	257.5	393.9	489.8	621.1	717.1	787.8	848.4	868.6
80.8	72.5°	111.1	202.0	318.1	419.1	535.3	621.1	671.6	707.0	737.3
45.4	75°	75.7	156.5	257.5	358.5	444.4	510.0	555.5	585.8	611.0
20.2	77.5°	45.4	121.2	212.1	297.9	353.5	404.0	449.4	469.6	484.8
15.1	80°	25.2	90.9	176.7	242.4	277.7	313.1	348.4	373.7	383.8
10.1	82.5°	15.1	70.7	141.4	186.8	202.0	237.3	272.7	287.8	287.8
5.0	85°	10.1	50.5	95.9	136.3	146.4	171.7	181.8	191.9	202.0
5.0	87.5°	10.1	30.3	60.6	75.7	80.8	90.9	95.9	106.0	116.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
158440.4
153234.1
143543.7
128182.4
111558.7
91637.5
69943.8
50108.5
36398.5
26516.1
18012.4
11356.8
7251.4
5105.3
3878.2
3100.5
2600.6
2252.2
1994.6
1797.7
1631.1
1509.9
1429.1
1348.3
1277.6
1196.8
1095.8
989.7
878.7
732.2
606.0
479.7
373.7
282.8
196.9
111.1
0.0

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