

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: P637305

Luminaire Tested: **IFLD-M-SA4C-727-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637305
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-727-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22932.9 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 218.1
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

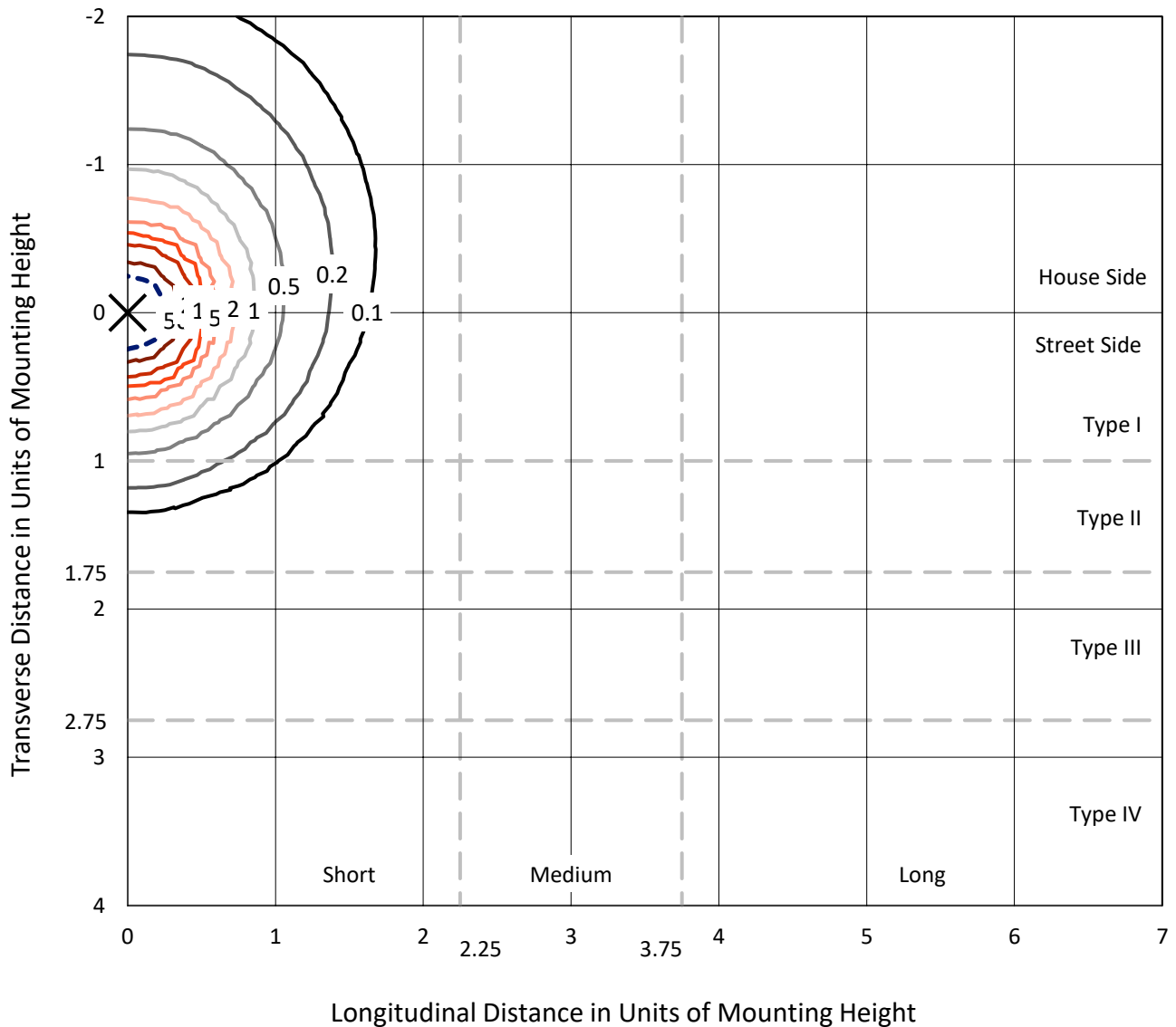




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Iso-Footcandle Lines of Horizontal Illumination

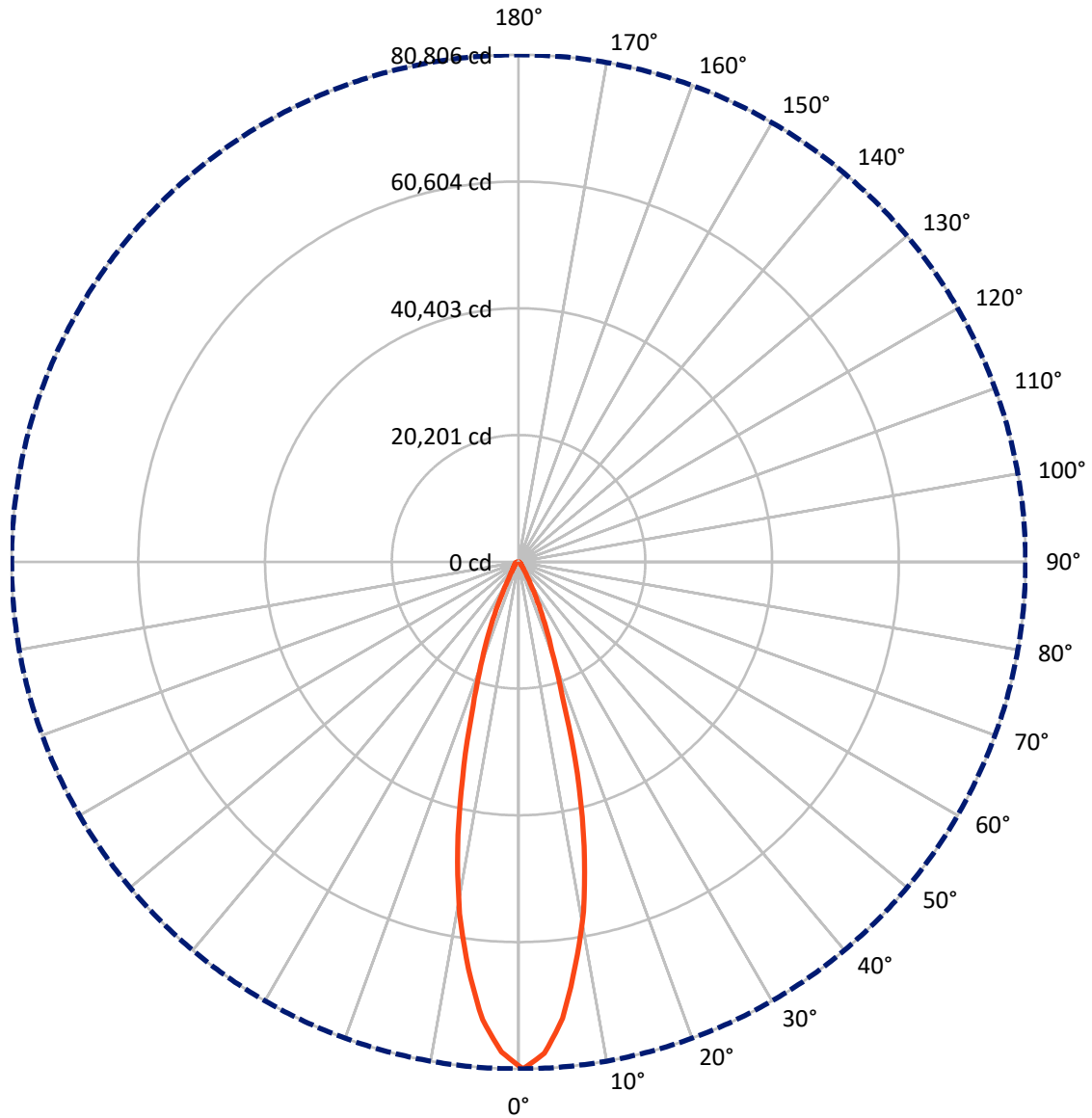
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 202 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	12091.8	0.0	12091.8
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	10841.1	0.0	10841.1
	% Fixture	47.3	0.0	47.3
Total	Lumens	22932.9	0.0	22932.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6521.7	28.4
10°-20°	9877.1	43.1
20°-30°	4168.2	18.2
30°-40°	1087.1	4.7
40°-50°	549.8	2.4
50°-60°	359.4	1.6
60°-70°	215.3	0.9
70°-80°	113.3	0.5
80°-90°	40.9	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°	22932.9	100.0
0°-180°	22932.9	100.0

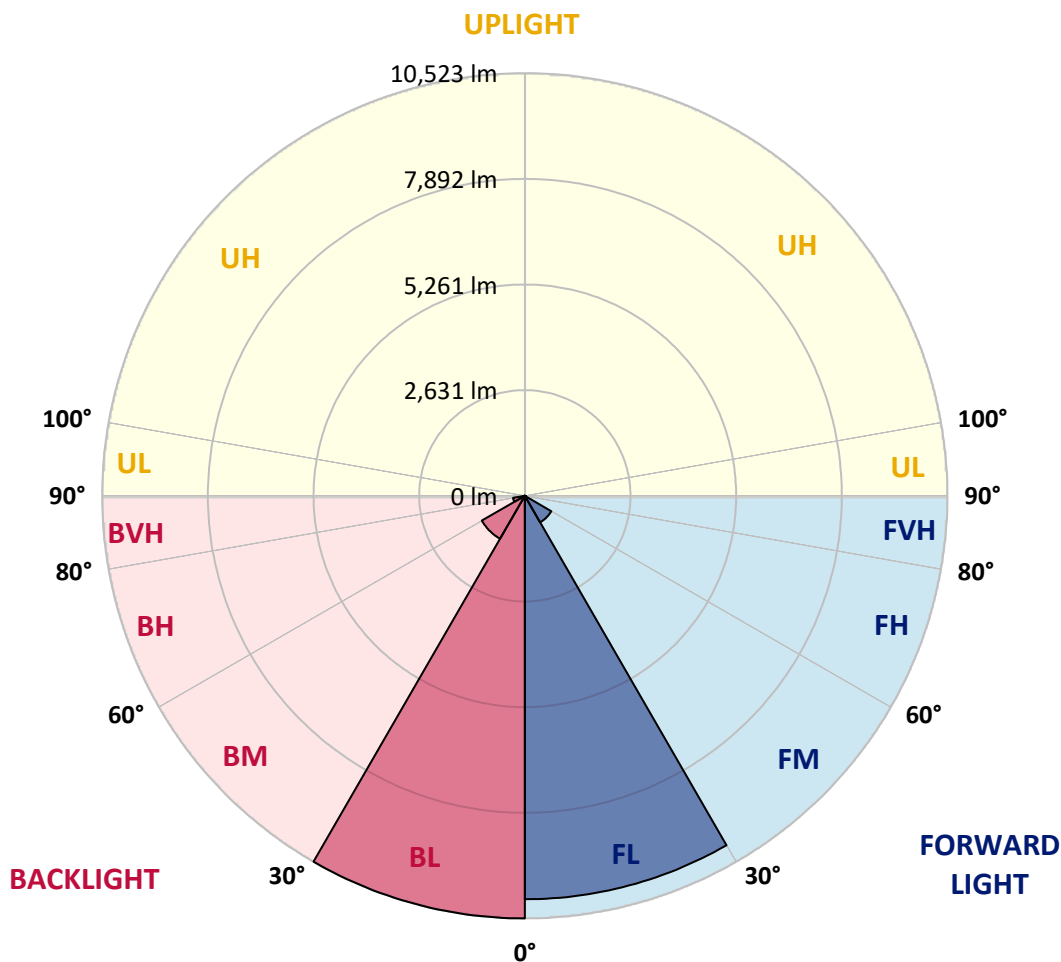


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10044.5	43.8			
FM (30°-60°)	760.7	3.3			
FH (60°-80°)	31.0	0.1			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	10522.6	45.9	B5		
BM (30°-60°)	1235.6	5.4	B2/2500		
BH (60°-80°)	297.6	1.3	B1/500		G0/660
BVH (80°-90°)	35.9	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°	80805.7	80805.7	80805.7	80805.7	80805.7	80805.7	80805.7	80805.7	80805.7	80805.7
2.5°	78451.8	78495.5	78333.3	78683.5	78410.5	79142.0	78778.8	79345.4	79154.8	79471.6
5°	73094.9	73022.8	72976.5	73519.9	73362.8	74148.3	73646.1	73481.2	73991.2	73898.5
7.5°	65005.6	65196.2	65088.0	65229.7	65309.5	66205.7	66489.0	66267.6	66275.3	66404.0
10°	56712.8	56432.1	56032.9	56298.2	56859.6	57251.1	57094.0	57418.5	57346.4	57652.8
12.5°	46509.1	46730.6	46506.5	46269.6	47250.8	47142.6	47415.6	47593.3	47147.8	48139.3
15°	35033.1	35149.0	35422.0	35404.0	36158.6	36310.5	36274.5	36462.5	36114.8	36279.6
17.5°	22506.4	22897.9	23631.8	24873.2	26269.1	26431.3	26390.1	26235.6	26068.2	25882.7
20°	15117.6	15076.4	15341.6	15704.8	18594.4	19359.3	19336.1	18851.9	18151.4	18017.5
22.5°	10590.0	10667.3	10631.2	10991.8	11589.3	13698.5	13438.4	12946.5	12717.3	12567.9
25°	6966.4	6938.1	7118.4	7226.6	7739.1	7996.6	8908.3	8725.4	8372.6	8411.2
27.5°	4246.8	4282.9	4349.8	4442.6	4805.7	4723.3	5243.5	5313.0	5199.7	5078.7
30°	2606.3	2632.1	2686.1	2753.1	2879.3	2789.2	2933.4	3183.2	3142.0	3057.0
32.5°	1769.3	1771.9	1810.5	1836.3	1820.8	1735.8	1782.2	2019.1	2024.3	2016.5
35°	1272.2	1272.2	1308.3	1328.9	1285.1	1215.6	1223.3	1370.1	1434.5	1447.4
37.5°	878.2	880.8	942.6	1004.4	955.5	937.4	906.5	1004.4	1107.4	1122.9
40°	667.0	664.5	695.4	741.7	746.9	713.4	723.7	785.5	891.1	904.0
42.5°	540.8	543.4	558.9	553.7	556.3	600.1	615.5	643.8	741.7	764.9
45°	455.8	458.4	466.1	440.4	430.1	497.1	517.7	533.1	615.5	643.8
47.5°	376.0	381.2	388.9	360.6	355.4	399.2	435.2	450.7	522.8	553.7
50°	270.4	275.6	303.9	288.4	303.9	314.2	363.1	386.3	435.2	476.4
52.5°	195.7	200.9	208.6	211.2	249.8	255.0	291.0	327.1	350.3	396.6
55°	154.5	159.7	154.5	149.4	182.9	211.2	224.1	262.7	280.7	334.8
57.5°	87.6	92.7	100.4	115.9	121.0	162.3	175.1	208.6	224.1	275.6
60°	15.5	18.0	28.3	69.5	85.0	103.0	131.3	159.7	180.3	216.3
62.5°	2.6	2.6	5.2	15.5	48.9	72.1	95.3	113.3	131.3	164.8
65°	0.0	0.0	2.6	5.2	12.9	41.2	51.5	67.0	90.1	118.5
67.5°	0.0	0.0	2.6	5.2	7.7	15.5	23.2	41.2	51.5	79.8
70°	0.0	0.0	2.6	5.2	7.7	10.3	12.9	18.0	30.9	48.9
72.5°	0.0	0.0	2.6	5.2	7.7	10.3	12.9	15.5	15.5	30.9
75°	0.0	0.0	2.6	5.2	7.7	12.9	15.5	15.5	12.9	12.9
77.5°	0.0	0.0	2.6	5.2	10.3	15.5	18.0	15.5	10.3	10.3
80°	0.0	0.0	5.2	7.7	12.9	18.0	23.2	18.0	10.3	5.2
82.5°	0.0	0.0	5.2	10.3	12.9	20.6	28.3	23.2	10.3	5.2
85°	0.0	0.0	2.6	7.7	15.5	20.6	28.3	20.6	10.3	2.6
87.5°	0.0	0.0	2.6	2.6	5.2	7.7	15.5	12.9	5.2	2.6
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°
80805.7	0°	80805.7	80805.7	80805.7	80805.7	80805.7	80805.7	80805.7	80805.7	80805.7
78871.5	2.5°	79324.8	79736.9	79821.9	79708.5	79873.4	79577.2	79350.6	78763.4	78410.5
73870.1	5°	74346.6	74284.8	74714.9	74856.5	74838.5	74611.8	74295.1	73939.7	73594.6
66154.2	7.5°	66566.3	66646.1	67037.6	67287.4	67161.2	66877.9	66659.0	66391.2	66159.4
57763.6	10°	58291.5	57743.0	58229.7	58229.7	58567.1	57766.2	57840.9	57166.1	57197.0
48121.3	12.5°	48286.1	48484.4	48564.3	48793.5	48399.4	47974.5	47454.3	47351.3	47029.3
35965.4	15°	36483.1	37049.7	36562.9	37394.8	36993.0	36550.0	36470.2	35671.8	35924.2
26086.2	17.5°	25957.4	26583.3	26779.0	27255.4	26889.7	26627.0	26294.8	26052.7	26034.7
18262.1	20°	18406.4	19034.8	19179.0	19750.7	19709.5	19627.1	19346.4	19039.9	18707.7
12431.4	22.5°	12619.4	13132.0	13611.0	14381.0	14368.1	14126.1	14097.7	13665.1	13672.8
8398.4	25°	8485.9	8859.4	8972.7	9760.8	9848.3	9822.6	9675.8	9274.0	9426.0
5130.2	27.5°	5135.3	5462.4	5846.2	6124.3	6387.0	6345.8	6199.0	5974.9	5877.1
3082.8	30°	3165.2	3312.0	3453.6	3788.4	3945.5	4027.9	3958.4	3749.8	3765.2
2029.4	32.5°	2073.2	2196.8	2299.8	2511.0	2593.4	2745.4	2717.0	2673.3	2621.8
1460.3	35°	1511.8	1601.9	1671.4	1769.3	1874.9	2003.7	2024.3	2006.2	1985.6
1128.0	37.5°	1153.8	1246.5	1326.3	1367.5	1449.9	1550.4	1607.0	1604.5	1589.0
919.4	40°	937.4	1007.0	1079.1	1133.2	1189.8	1264.5	1334.1	1341.8	1341.8
772.6	42.5°	782.9	842.2	914.3	970.9	1012.1	1081.7	1153.8	1158.9	1153.8
654.2	45°	669.6	721.1	790.6	857.6	891.1	942.6	1012.1	1027.6	1017.3
561.4	47.5°	582.0	628.4	687.6	759.7	795.8	842.2	906.5	924.6	922.0
484.2	50°	499.6	553.7	612.9	672.2	718.5	762.3	824.1	844.7	837.0
412.1	52.5°	440.4	489.3	540.8	605.2	659.3	697.9	746.9	782.9	772.6
347.7	55°	368.3	427.5	481.6	535.7	602.6	643.8	690.2	734.0	723.7
293.6	57.5°	319.3	368.3	430.1	479.0	546.0	594.9	641.3	687.6	685.1
239.5	60°	267.8	319.3	378.6	430.1	491.9	546.0	592.3	643.8	649.0
180.3	62.5°	211.2	273.0	324.5	383.7	445.5	504.8	546.0	597.5	605.2
136.5	65°	159.7	224.1	280.7	337.4	399.2	463.6	499.6	543.4	551.1
100.4	67.5°	118.5	172.6	239.5	291.0	355.4	417.2	450.7	486.8	499.6
61.8	70°	90.1	131.3	200.9	249.8	316.8	365.7	401.8	432.7	443.0
41.2	72.5°	56.7	103.0	162.3	213.8	273.0	316.8	342.5	360.6	376.0
23.2	75°	38.6	79.8	131.3	182.9	226.6	260.1	283.3	298.7	311.6
10.3	77.5°	23.2	61.8	108.2	151.9	180.3	206.0	229.2	239.5	247.2
7.7	80°	12.9	46.4	90.1	123.6	141.6	159.7	177.7	190.6	195.7
5.2	82.5°	7.7	36.1	72.1	95.3	103.0	121.0	139.1	146.8	146.8
2.6	85°	5.2	25.8	48.9	69.5	74.7	87.6	92.7	97.9	103.0
2.6	87.5°	5.2	15.5	30.9	38.6	41.2	46.4	48.9	54.1	59.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
80805.7
78150.4
73208.2
65373.9
56895.7
46735.7
35671.8
25555.7
18563.5
13523.4
9186.4
5792.1
3698.3
2603.7
1977.9
1581.3
1326.3
1148.6
1017.3
916.8
831.9
770.0
728.8
687.6
651.6
610.4
558.9
504.8
448.1
373.4
309.0
244.7
190.6
144.2
100.4
56.7
0.0

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