

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: P637820

Luminaire Tested: **IFLD-S-SA6A-727-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637820
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-727-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (96) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19032.7 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

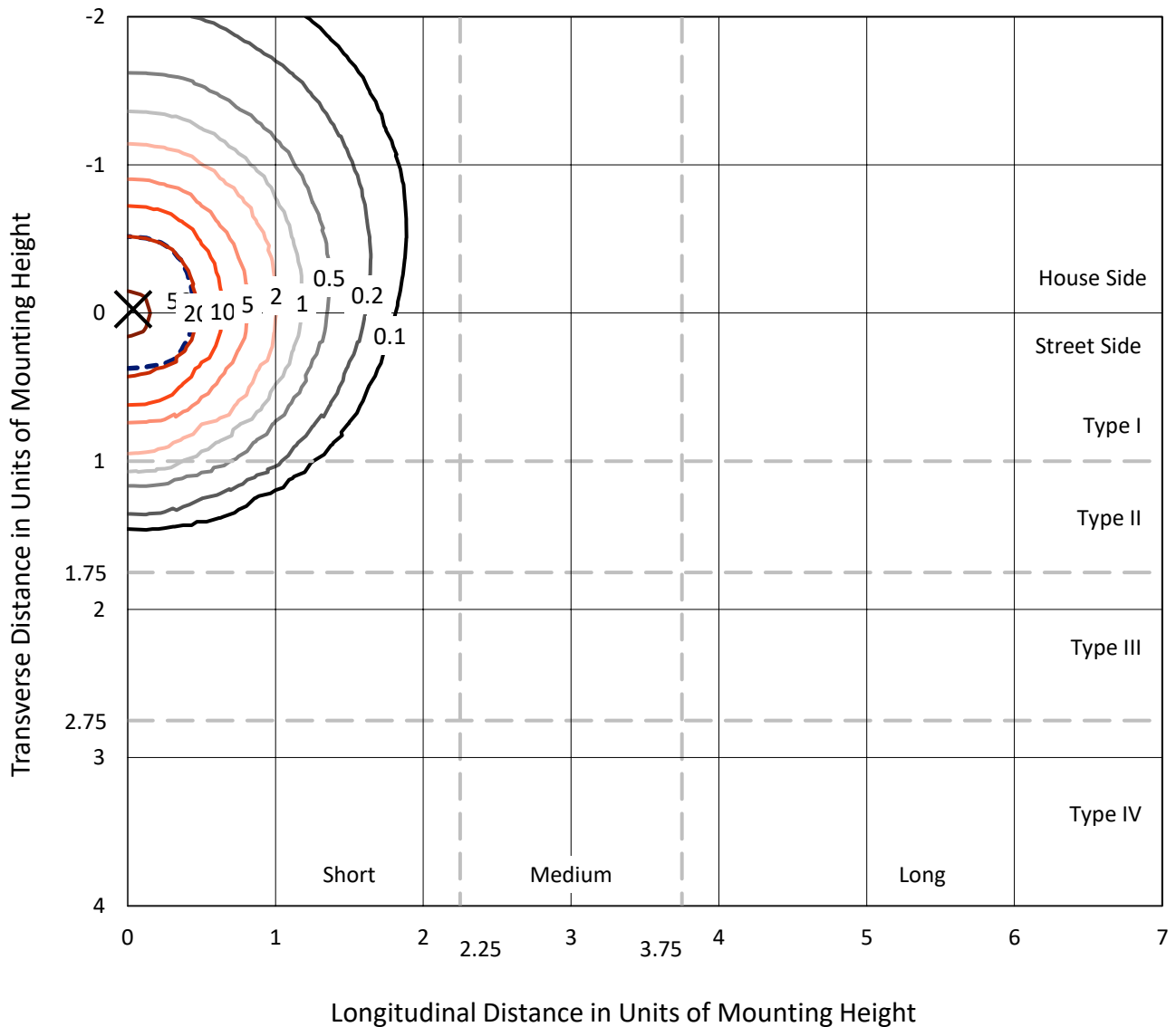
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

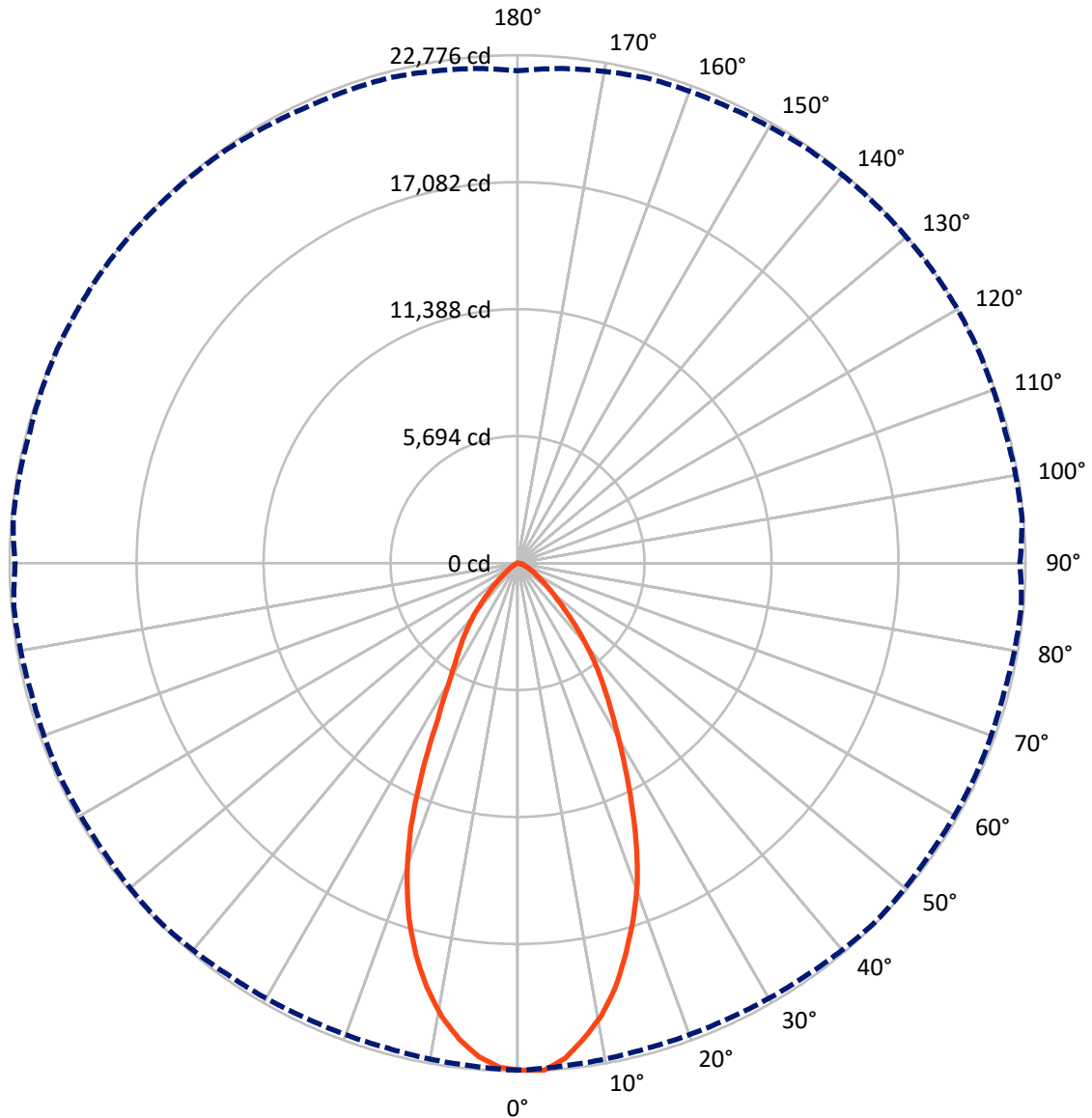
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 56.8 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	10799.9	0.0	10799.9
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	8232.8	0.0	8232.8
	% Fixture	43.3	0.0	43.3
Total	Lumens	19032.7	0.0	19032.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2064.8	10.8
10°-20°	4922.1	25.9
20°-30°	5013.1	26.3
30°-40°	3738.2	19.6
40°-50°	1952.9	10.3
50°-60°	821.4	4.3
60°-70°	335.5	1.8
70°-80°	141.2	0.7
80°-90°	43.5	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°	19032.7	100.0
0°-180°	19032.7	100.0



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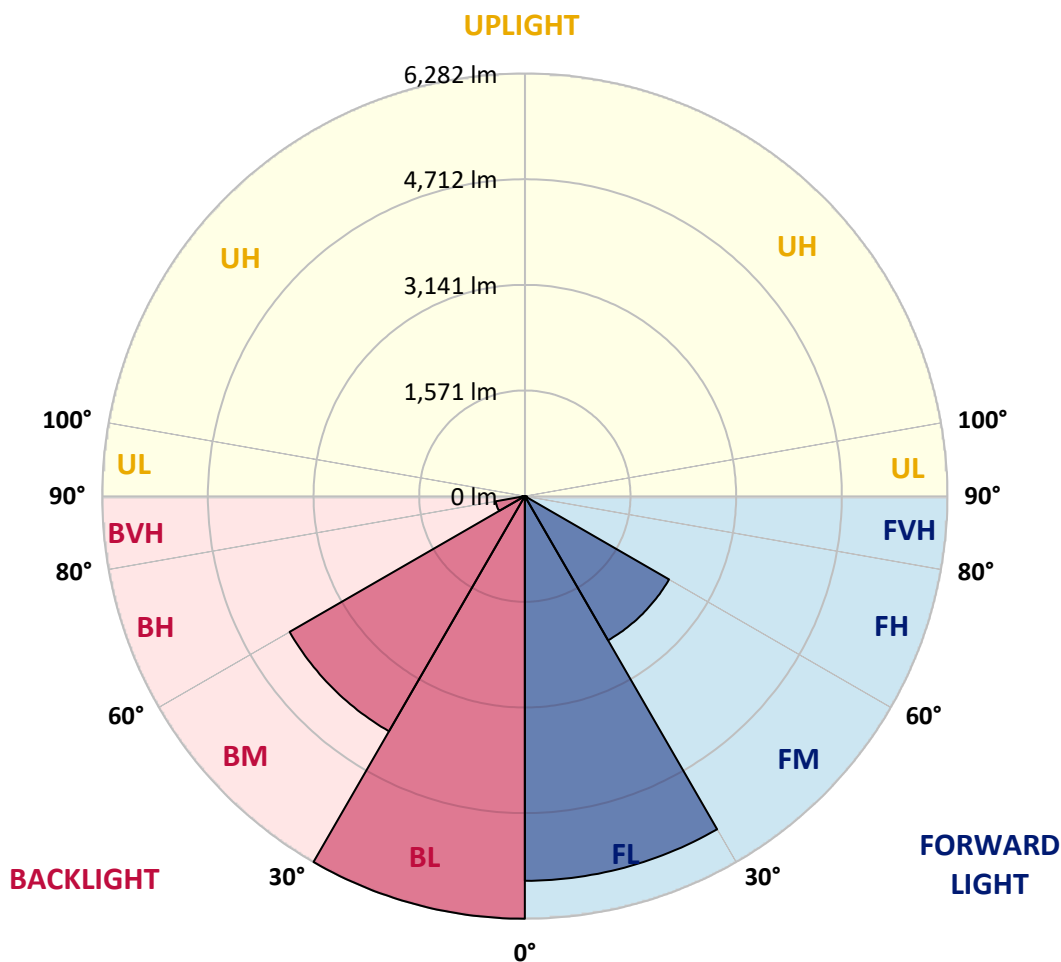
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5717.7	30.0			
FM (30°-60°)	2475.3	13.0			
FH (60°-80°)	35.8	0.2			G0/660
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	6282.3	33.0	B5		
BM (30°-60°)	4037.3	21.2	B3/5000		
BH (60°-80°)	440.8	2.3	B1/500		G1/500
BVH (80°-90°)	39.5	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	22739.5	22739.5	22739.5	22739.5	22739.5	22739.5	22739.5	22739.5	22739.5	22739.5
2.5°	22741.9	22649.0	22517.0	22504.8	22573.2	22722.4	22627.0	22631.9	22573.2	22673.5
5°	22385.0	22297.0	22206.5	22086.7	22187.0	22250.5	22201.6	22147.8	22072.1	22169.8
7.5°	21710.2	21661.3	21526.9	21473.1	21534.2	21605.1	21500.0	21485.3	21380.2	21507.3
10°	20678.5	20658.9	20526.9	20495.1	20548.9	20656.5	20610.0	20600.3	20534.2	20522.0
12.5°	19607.7	19531.9	19368.1	19358.3	19439.0	19600.3	19475.6	19355.8	19392.5	19424.3
15°	16849.9	16769.2	17175.0	17813.1	18148.1	18135.9	18172.5	18028.3	17984.3	17998.9
17.5°	13395.3	13258.4	13405.1	14392.8	15984.4	16908.5	16654.3	16343.8	16177.5	16067.5
20°	11561.7	11569.0	11542.1	11796.4	12789.0	14896.4	14835.3	14236.3	14018.7	13928.3
22.5°	10446.8	10405.3	10346.6	10427.3	10693.7	11930.8	12759.6	12209.6	12133.8	12033.5
25°	9354.0	9354.0	9283.1	9363.8	9439.5	9456.7	10287.9	10512.8	10366.1	10366.1
27.5°	8407.8	8358.9	8327.1	8363.8	8263.6	7781.9	7887.1	9038.6	8938.4	8877.2
30°	7469.0	7454.3	7400.5	7449.4	7077.8	6535.1	6315.0	7627.9	7733.0	7711.0
32.5°	6165.9	6224.6	6464.2	6540.0	5904.3	5466.7	5256.4	6332.1	6752.7	6735.5
35°	4190.5	4239.4	4513.2	5417.8	4894.6	4581.6	4520.5	5036.4	5728.3	5794.3
37.5°	3337.2	3329.9	3408.1	3569.5	3933.8	3858.0	3840.9	3975.3	4672.1	4701.4
40°	2750.4	2740.7	2738.2	2606.2	2515.7	3207.6	3161.2	3080.5	3684.4	3743.1
42.5°	2217.5	2227.3	2234.6	1946.1	1814.1	2474.2	2447.3	2364.2	2889.8	2958.3
45°	1740.7	1738.3	1753.0	1449.8	1413.1	1581.8	1828.7	1762.7	2180.8	2254.1
47.5°	902.1	933.9	1132.0	1122.2	1139.3	1122.2	1383.8	1366.7	1640.5	1757.8
50°	606.3	616.1	633.2	635.7	897.3	826.4	938.8	1063.5	1149.1	1330.0
52.5°	469.4	476.7	432.7	405.8	550.1	611.2	616.1	735.9	801.9	985.3
55°	261.6	293.4	315.4	317.8	303.2	452.3	449.9	545.2	596.5	718.8
57.5°	34.2	41.6	63.6	205.4	202.9	251.8	315.4	396.1	425.4	525.6
60°	2.4	4.9	7.3	31.8	134.5	146.7	215.1	246.9	295.8	369.2
62.5°	0.0	0.0	2.4	7.3	26.9	85.6	112.5	129.6	173.6	242.0
65°	0.0	0.0	2.4	4.9	9.8	31.8	44.0	70.9	102.7	149.1
67.5°	0.0	0.0	2.4	4.9	7.3	12.2	19.6	31.8	53.8	90.5
70°	0.0	0.0	2.4	4.9	7.3	9.8	14.7	19.6	29.3	48.9
72.5°	0.0	0.0	2.4	2.4	4.9	12.2	12.2	14.7	19.6	26.9
75°	0.0	0.0	2.4	4.9	7.3	12.2	12.2	12.2	14.7	17.1
77.5°	0.0	0.0	2.4	4.9	7.3	12.2	9.8	12.2	12.2	12.2
80°	0.0	0.0	2.4	4.9	7.3	12.2	14.7	12.2	9.8	9.8
82.5°	0.0	0.0	2.4	7.3	7.3	17.1	17.1	17.1	7.3	7.3
85°	0.0	0.0	4.9	7.3	12.2	19.6	19.6	14.7	7.3	4.9
87.5°	0.0	0.0	2.4	4.9	4.9	9.8	14.7	12.2	4.9	2.4
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°
22739.5	0°	22739.5	22739.5	22739.5	22739.5	22739.5	22739.5	22739.5	22739.5	22739.5
22526.8	2.5°	22707.7	22646.6	22761.5	22776.2	22727.3	22666.2	22524.4	22512.1	22265.2
22028.0	5°	22277.4	22177.2	22250.5	22299.4	22282.3	22216.3	22157.6	22103.8	21881.4
21218.8	7.5°	21475.5	21438.8	21473.1	21509.7	21580.6	21509.7	21485.3	21429.1	21209.0
20421.8	10°	20585.6	20517.1	20646.7	20629.6	20610.0	20590.5	20487.8	20497.6	20238.4
19336.3	12.5°	19492.7	19377.8	19502.5	19517.2	19502.5	19434.1	19319.2	19368.1	19130.9
17869.4	15°	18023.4	18011.2	18101.6	18160.3	18201.9	18128.5	18089.4	18113.9	17972.1
15981.9	17.5°	16219.1	16378.0	16673.8	16774.1	16776.5	16852.3	16830.3	16801.0	16695.8
13891.6	20°	14097.0	14402.6	14857.3	15324.3	15458.8	15395.2	15365.8	15419.6	15263.2
11928.4	22.5°	12138.7	12400.3	12928.3	13610.4	14004.1	14043.2	14035.9	13989.4	13928.3
10356.4	25°	10476.2	10708.4	11214.5	11837.9	12593.4	12705.9	12710.7	12696.1	12642.3
8931.0	27.5°	9072.8	9354.0	9632.7	10190.1	10994.5	11459.0	11400.3	11383.2	11363.6
7728.2	30°	7801.5	8156.0	8417.6	8764.8	9486.0	10114.3	10175.4	10146.1	10099.7
6733.1	32.5°	6794.2	7004.5	7337.0	7571.7	8090.0	8801.4	9036.1	9014.1	8972.6
5835.8	35°	5919.0	6002.1	6263.7	6525.3	6870.0	7559.5	7906.6	7857.7	7850.4
4755.2	37.5°	4875.0	5153.7	5298.0	5562.0	5804.1	6339.5	6818.7	6796.7	6799.1
3823.7	40°	3936.2	4097.6	4383.6	4606.1	4828.6	5219.7	5752.7	5767.4	5762.5
2960.7	42.5°	3021.8	3178.3	3479.0	3721.1	3919.1	4161.1	4669.7	4686.8	4708.8
2305.5	45°	2359.3	2459.5	2679.5	2931.4	3141.6	3288.3	3674.6	3784.6	3787.1
1787.2	47.5°	1831.2	1946.1	2102.6	2344.6	2550.0	2655.1	2936.3	3085.4	3078.1
1371.6	50°	1437.6	1542.7	1669.8	1860.5	2083.0	2166.1	2373.9	2520.6	2513.3
1034.2	52.5°	1100.2	1234.6	1347.1	1493.8	1711.4	1782.3	1931.4	2100.1	2075.7
757.9	55°	833.7	970.6	1075.7	1198.0	1396.0	1486.5	1589.1	1723.6	1728.5
586.8	57.5°	628.3	770.1	865.5	990.2	1139.3	1239.5	1317.8	1462.0	1459.6
401.0	60°	449.9	572.1	687.0	816.6	931.5	1046.4	1100.2	1237.1	1242.0
283.6	62.5°	325.2	440.1	550.1	662.6	765.2	877.7	926.6	1034.2	1048.8
185.8	65°	227.4	308.1	435.2	520.8	635.7	718.8	782.4	875.3	892.4
110.0	67.5°	146.7	222.5	344.7	420.5	525.6	596.5	662.6	735.9	757.9
70.9	70°	88.0	168.7	256.7	337.4	432.7	496.3	559.9	623.4	635.7
34.2	72.5°	56.2	117.4	185.8	273.8	347.2	415.6	471.9	518.3	481.6
22.0	75°	31.8	80.7	146.7	215.1	281.2	347.2	393.6	418.1	334.9
14.7	77.5°	19.6	58.7	119.8	173.6	217.6	278.7	308.1	322.7	239.6
9.8	80°	12.2	44.0	100.2	141.8	141.8	205.4	239.6	251.8	173.6
7.3	82.5°	9.8	31.8	78.2	107.6	95.3	154.0	188.3	190.7	122.2
4.9	85°	7.3	24.4	48.9	70.9	66.0	107.6	110.0	122.2	80.7
4.9	87.5°	4.9	14.7	29.3	41.6	36.7	51.3	58.7	66.0	44.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
22739.5
22072.1
21702.9
21162.6
20150.4
19062.5
17800.9
16539.4
15150.7
13810.9
12461.4
11248.7
10041.0
8862.6
7769.7
6720.9
5676.9
4635.4
3723.5
3051.2
2513.3
2078.1
1728.5
1454.7
1229.8
1043.9
887.5
755.5
625.9
447.4
317.8
224.9
161.4
112.5
73.3
39.1
0.0

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