

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: P638516

Luminaire Tested: **IFLD-S-SA6A-827-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638516
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-827-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (96) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14623 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

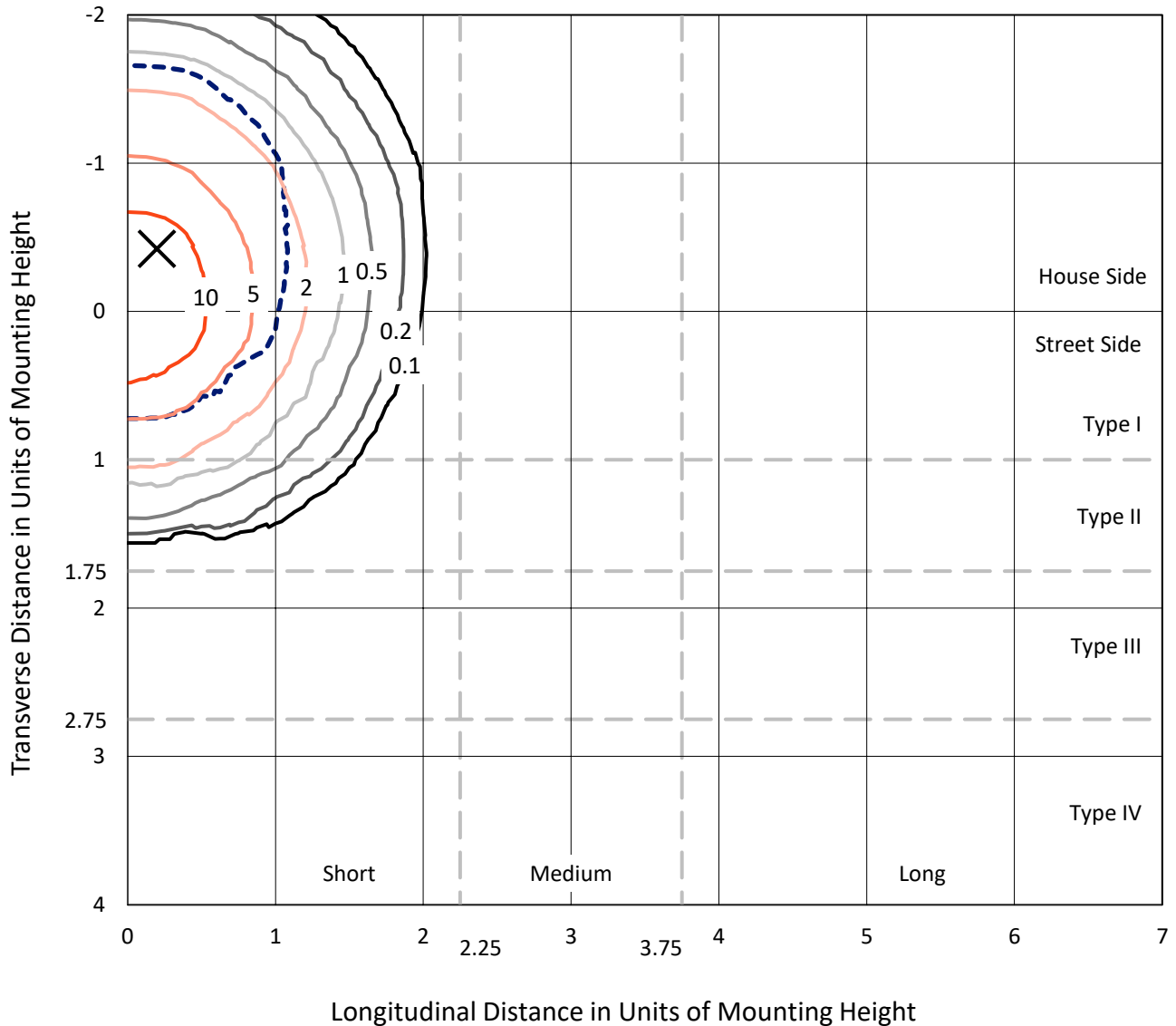
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

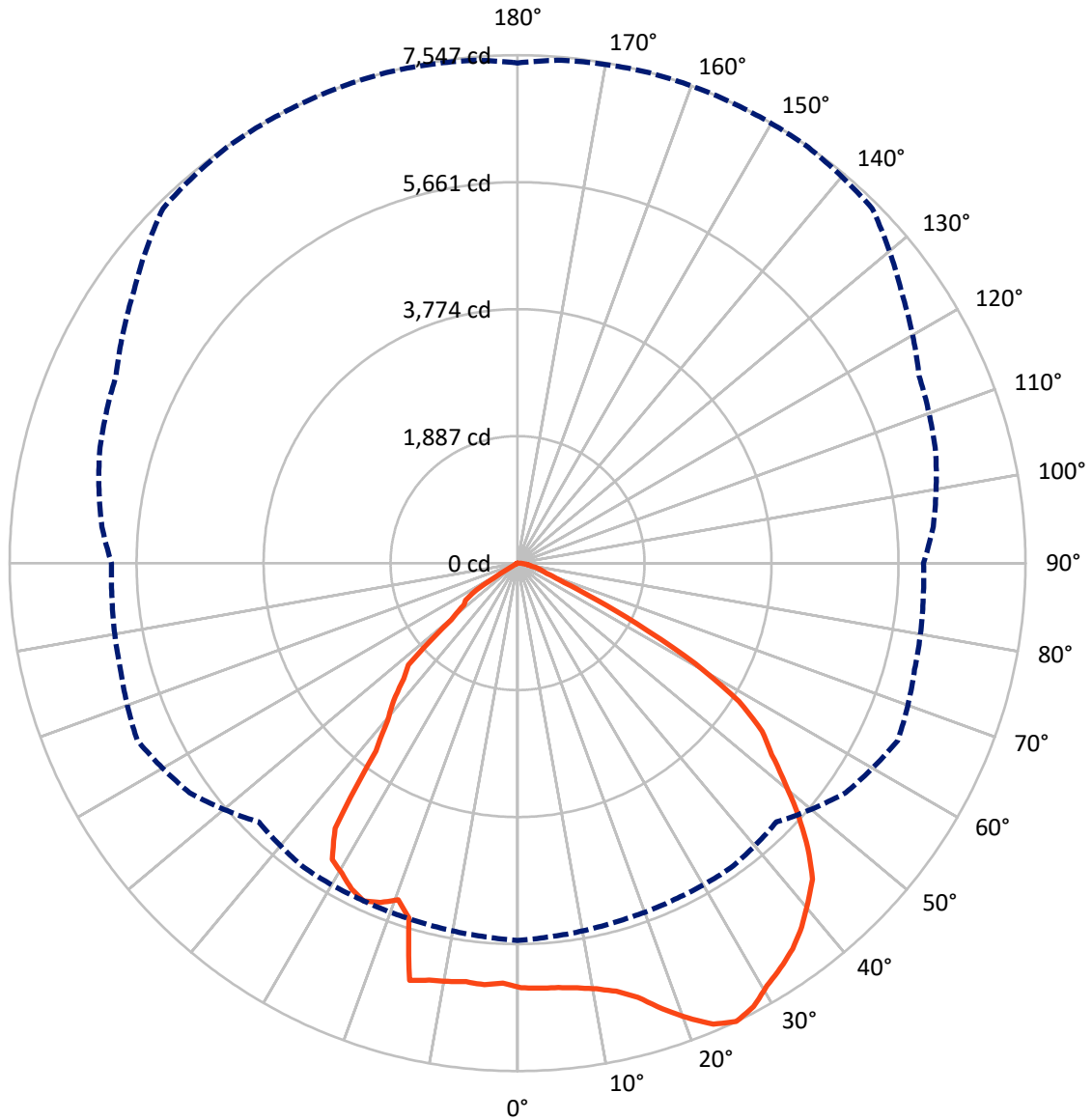
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9053.2	0.0	9053.2
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	5569.8	0.0	5569.8
	% Fixture	38.1	0.0	38.1
Total	Lumens	14623.0	0.0	14623.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.3	4.1
10°-20°	1848.3	12.6
20°-30°	2922.1	20.0
30°-40°	3300.8	22.6
40°-50°	3091.2	21.1
50°-60°	2131.2	14.6
60°-70°	572.6	3.9
70°-80°	119.3	0.8
80°-90°	32.3	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°	14623.0	100.0
0°-180°	14623.0	100.0



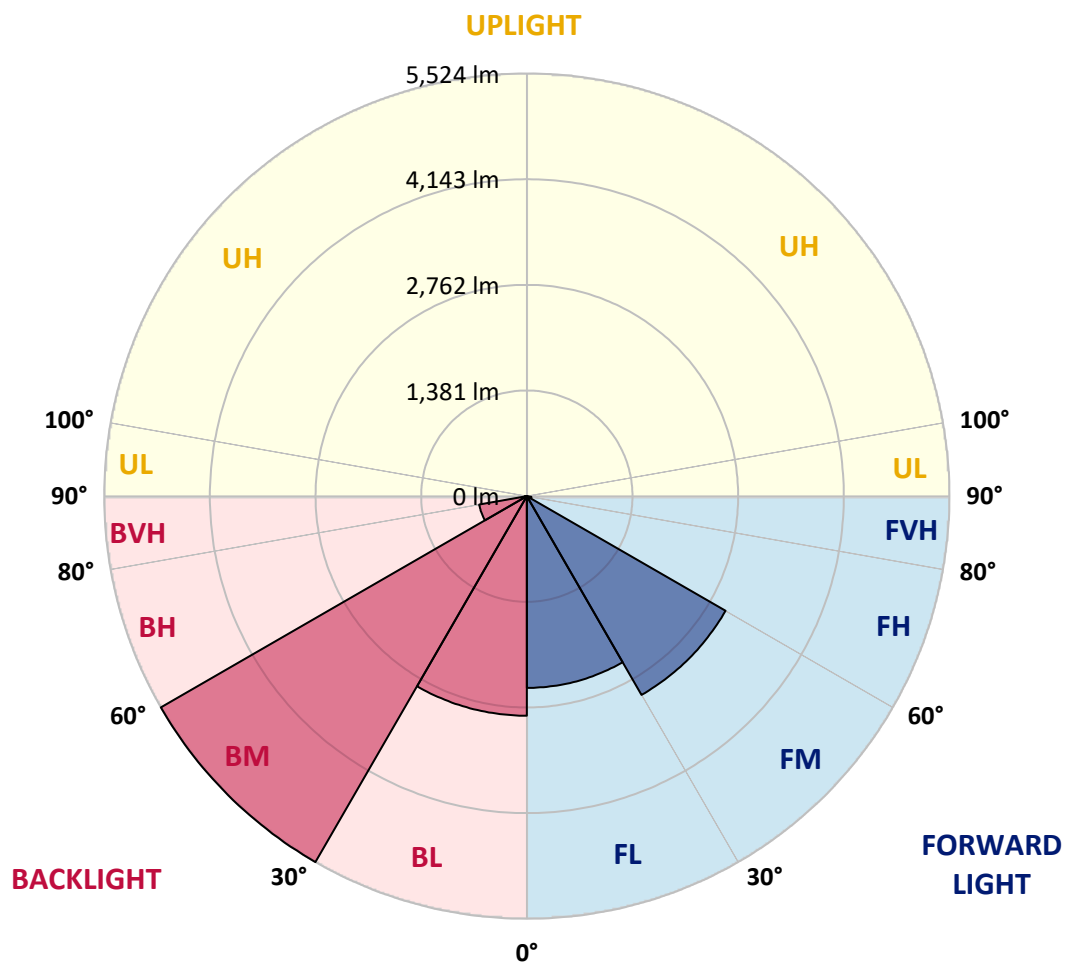
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2505.9	17.1			
FM (30°-60°)	2999.5	20.5			
FH (60°-80°)	60.1	0.4			G0/660
FVH (80°-90°)	4.3	0.0			G0/10
BL (0°-30°)	2869.8	19.6	B4/5000		
BM (30°-60°)	5523.6	37.8	B4/8500		
BH (60°-80°)	631.8	4.3	B2/1000		G2/1000
BVH (80°-90°)	27.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6309.6	6309.6	6309.6	6309.6	6309.6	6309.6	6309.6	6309.6	6309.6	6309.6
2.5°	6337.5	6296.7	6258.0	6245.1	6298.8	6356.9	6320.3	6322.5	6309.6	6333.2
5°	6384.8	6328.9	6303.1	6283.8	6292.4	6352.6	6301.0	6320.3	6298.8	6326.8
7.5°	6367.6	6328.9	6303.1	6266.6	6294.5	6365.5	6316.0	6318.2	6307.4	6333.2
10°	6356.9	6328.9	6296.7	6301.0	6333.2	6393.4	6354.7	6376.2	6361.2	6376.2
12.5°	6382.6	6352.6	6335.4	6335.4	6363.3	6432.1	6412.7	6432.1	6425.6	6438.5
15°	6139.8	6167.7	6331.1	6404.1	6460.0	6528.8	6520.2	6539.5	6543.8	6563.2
17.5°	5179.2	5151.2	5138.4	5514.4	6513.7	6726.5	6720.0	6717.9	6696.4	6681.4
20°	5306.0	5295.2	5280.2	5308.1	5419.9	6829.6	6872.6	6608.3	6530.9	6524.5
22.5°	5508.0	5490.8	5434.9	5437.1	5471.5	5937.8	6659.9	6419.2	6393.4	6378.3
25°	5606.8	5572.5	5527.3	5514.4	5525.2	5439.2	5948.5	6234.4	6107.6	6049.5
27.5°	5432.8	5434.9	5398.4	5432.8	5391.9	5005.1	4788.1	5873.3	5869.0	5843.2
30°	5301.7	5295.2	5252.3	5295.2	5013.7	4581.8	4489.3	5477.9	5432.8	5398.4
32.5°	4899.8	4904.1	5028.8	5196.4	4734.3	4392.6	4113.3	4893.4	5321.0	5301.7
35°	3505.1	3513.7	3956.4	4783.8	4311.0	4016.6	3995.1	4229.3	5144.8	5153.4
37.5°	3374.0	3374.0	3363.2	3498.6	3977.9	3864.0	3907.0	3883.3	4712.8	4734.3
40°	3279.4	3260.1	3245.0	3032.3	2765.8	3756.5	3786.6	3679.2	4455.0	4459.3
42.5°	3165.5	3144.0	3148.3	2755.1	2475.7	3490.0	3406.2	3262.2	4025.1	4029.4
45°	2957.1	2993.6	3019.4	2411.2	2389.7	2492.9	3141.9	3051.6	3735.0	3814.5
47.5°	1504.3	1536.6	2357.5	2217.8	2267.2	2215.7	2654.1	2656.2	3107.5	3371.8
50°	1364.6	1356.0	1358.2	1293.7	2093.2	1792.3	1919.1	2434.9	2488.6	2866.8
52.5°	1272.2	1270.1	1139.0	1012.2	1315.2	1577.4	1392.6	1762.2	1850.3	2428.4
55°	941.3	1010.0	898.3	952.0	823.1	1263.6	1257.2	1590.3	1620.4	1947.0
57.5°	8.6	10.7	25.8	724.2	569.5	631.8	868.2	1085.3	1139.0	1517.2
60°	2.1	4.3	10.7	21.5	369.6	389.0	580.2	627.5	707.0	904.7
62.5°	0.0	0.0	4.3	10.7	19.3	159.0	184.8	202.0	311.6	462.0
65°	0.0	0.0	2.1	6.4	10.7	25.8	45.1	94.6	135.4	167.6
67.5°	0.0	0.0	2.1	4.3	8.6	12.9	25.8	36.5	58.0	98.9
70°	0.0	0.0	2.1	4.3	6.4	10.7	17.2	25.8	34.4	49.4
72.5°	0.0	0.0	2.1	4.3	4.3	12.9	12.9	19.3	25.8	32.2
75°	0.0	0.0	2.1	2.1	4.3	8.6	12.9	15.0	17.2	25.8
77.5°	0.0	0.0	2.1	4.3	6.4	8.6	10.7	17.2	15.0	15.0
80°	0.0	0.0	2.1	6.4	6.4	10.7	12.9	17.2	10.7	10.7
82.5°	0.0	0.0	2.1	8.6	6.4	21.5	21.5	23.6	8.6	8.6
85°	0.0	0.0	6.4	4.3	12.9	21.5	19.3	12.9	10.7	6.4
87.5°	0.0	0.0	2.1	2.1	4.3	6.4	15.0	12.9	4.3	4.3
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°
6309.6	0°	6309.6	6309.6	6309.6	6309.6	6309.6	6309.6	6309.6	6309.6	6309.6
6270.9	2.5°	6356.9	6328.9	6386.9	6380.5	6352.6	6339.7	6324.6	6311.7	6217.2
6275.2	5°	6359.0	6316.0	6386.9	6374.0	6369.8	6348.3	6335.4	6354.7	6268.7
6292.4	7.5°	6359.0	6316.0	6393.4	6397.7	6391.2	6374.0	6371.9	6384.8	6313.9
6322.5	10°	6402.0	6384.8	6449.3	6455.7	6447.1	6442.8	6432.1	6423.5	6348.3
6425.6	12.5°	6492.2	6457.9	6530.9	6550.3	6543.8	6554.6	6528.8	6541.7	6464.3
6530.9	15°	6601.8	6604.0	6659.9	6702.9	6698.6	6732.9	6694.3	6728.6	6672.8
6651.3	17.5°	6769.5	6793.1	6872.6	6937.1	6960.7	6986.5	6960.7	6971.5	6892.0
6518.0	20°	6593.3	6681.4	7063.9	7182.1	7231.5	7255.2	7212.2	7225.1	7145.6
6354.7	22.5°	6434.2	6548.1	6887.7	7257.3	7409.9	7457.2	7442.1	7440.0	7409.9
6032.4	25°	6200.0	6429.9	6582.5	6973.6	7452.9	7538.8	7547.4	7545.3	7500.1
5834.6	27.5°	5912.0	5963.6	6359.0	6597.5	7152.0	7478.7	7465.8	7403.4	7343.3
5424.2	30°	5544.5	5778.8	5957.1	6337.5	6763.0	7293.8	7293.8	7246.6	7184.2
5278.0	32.5°	5357.6	5660.6	5826.0	5963.6	6326.8	7087.5	7173.5	7124.1	7074.6
5164.1	35°	5258.7	5303.8	5690.7	5815.3	6122.6	6690.0	7038.1	6988.7	6952.1
4861.1	37.5°	5041.6	5146.9	5327.5	5660.6	5755.1	6365.5	6857.6	6831.8	6788.8
4467.9	40°	4558.1	4839.6	5116.9	5432.8	5531.6	5948.5	6638.4	6649.1	6591.1
4048.8	42.5°	4272.3	4463.6	4897.7	5110.4	5376.9	5679.9	6425.6	6442.8	6402.0
3836.0	45°	3937.0	4149.8	4455.0	4841.8	5205.0	5310.3	6049.5	6230.1	6195.7
3412.7	47.5°	3629.7	3801.6	4175.6	4566.7	4968.6	4953.5	5617.6	5957.1	5909.9
3088.2	50°	3193.5	3494.3	3670.6	4029.4	4629.0	4669.9	5157.7	5636.9	5598.2
2624.0	52.5°	2692.7	3071.0	3408.4	3737.2	4285.2	4381.9	4730.0	5310.3	5284.5
2005.1	55°	2353.2	2628.3	3008.7	3273.0	3868.3	4126.2	4409.8	4998.7	4985.8
1648.3	57.5°	1674.1	2204.9	2518.7	2888.3	3202.1	3668.4	3879.0	4364.7	4244.4
913.3	60°	1134.7	1384.0	1766.5	2164.1	2374.7	2841.0	3036.6	3425.6	3393.3
545.9	62.5°	599.6	829.5	1102.5	1302.3	1454.9	1908.3	1990.0	2409.1	2398.3
219.2	65°	264.3	350.3	597.4	700.6	857.5	1068.1	1139.0	1289.4	1252.9
107.5	67.5°	137.5	208.5	337.4	414.8	522.2	601.7	659.8	707.0	737.1
70.9	70°	83.8	152.6	208.5	288.0	358.9	423.4	468.5	533.0	571.6
36.5	72.5°	62.3	96.7	144.0	221.4	260.0	335.3	380.4	427.7	462.0
30.1	75°	34.4	64.5	116.0	174.1	208.5	272.9	313.8	346.0	356.7
17.2	77.5°	21.5	49.4	96.7	135.4	163.3	221.4	210.6	240.7	266.5
12.9	80°	15.0	36.5	75.2	111.8	113.9	141.8	167.6	193.4	210.6
8.6	82.5°	10.7	30.1	55.9	86.0	75.2	109.6	131.1	150.4	109.6
6.4	85°	8.6	21.5	27.9	51.6	43.0	77.4	66.6	64.5	43.0
4.3	87.5°	6.4	10.7	19.3	23.6	17.2	17.2	21.5	25.8	21.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6309.6
6152.7
6195.7
6232.2
6285.9
6395.5
6580.4
6823.2
7089.7
7313.2
7431.4
7296.0
7160.6
7033.8
6900.6
6745.8
6578.2
6397.7
6200.0
5944.2
5604.7
5301.7
5000.8
4231.5
3395.5
2400.5
1237.8
737.1
573.8
468.5
350.3
270.8
212.8
79.5
43.0
21.5
0.0

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