

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: P637842

Luminaire Tested: **IFLD-S-SA2D-730-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637842
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-730-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12008.5 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

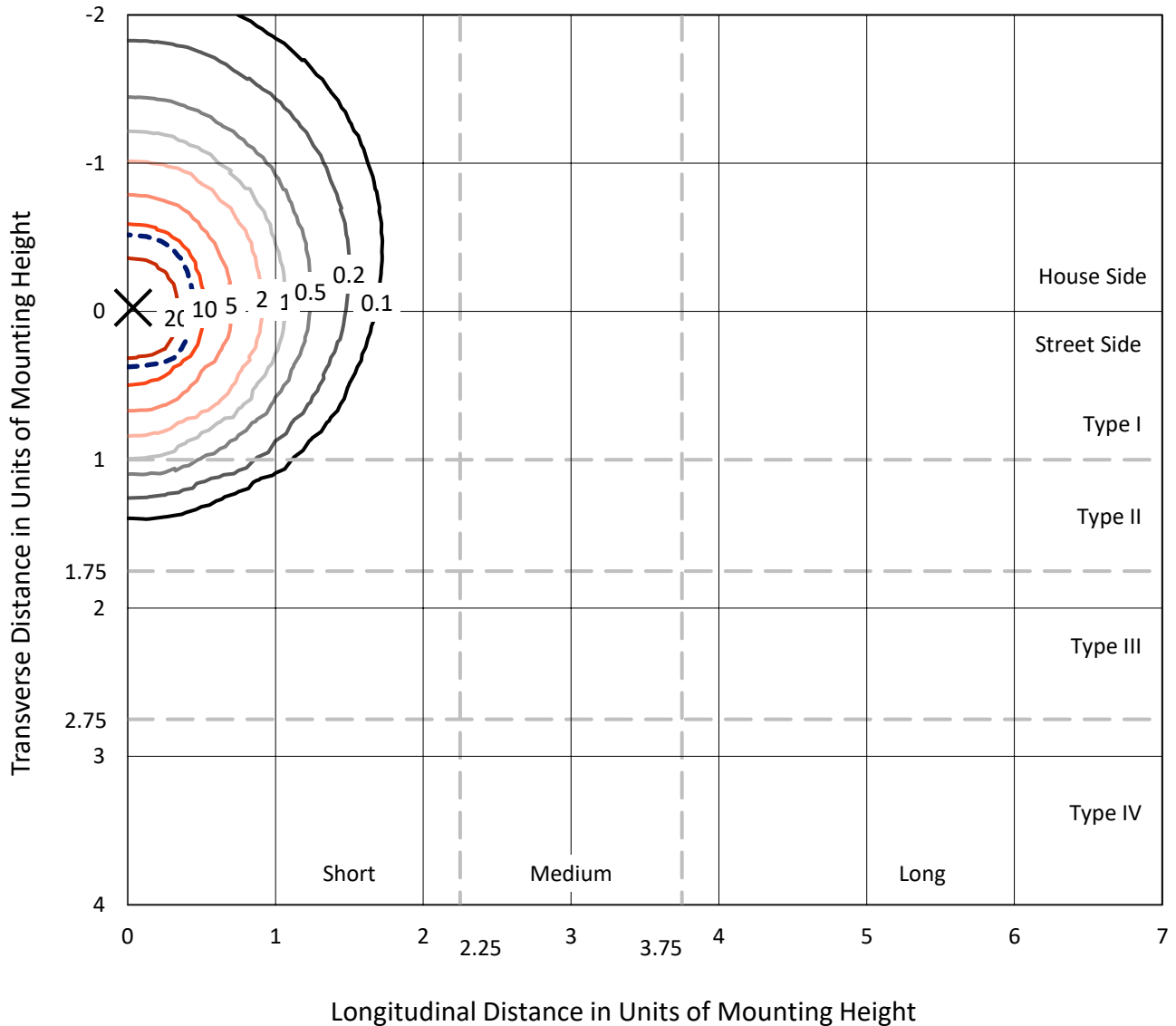
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

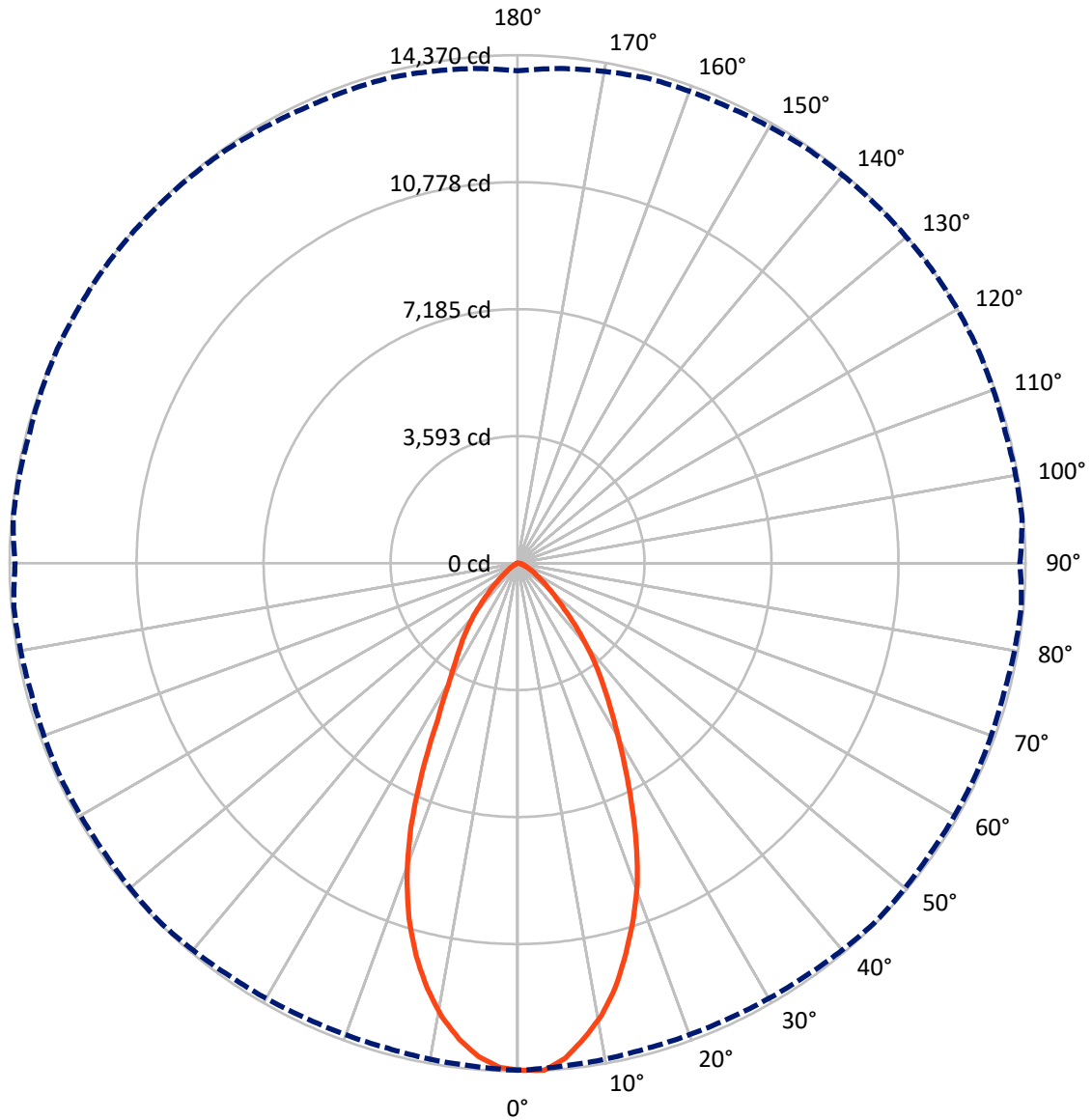
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 35.9 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	6814.1	0.0	6814.1
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	5194.4	0.0	5194.4
	% Fixture	43.3	0.0	43.3
Total	Lumens	12008.5	0.0	12008.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1302.8	10.8
10°-20°	3105.5	25.9
20°-30°	3162.9	26.3
30°-40°	2358.6	19.6
40°-50°	1232.2	10.3
50°-60°	518.3	4.3
60°-70°	211.7	1.8
70°-80°	89.1	0.7
80°-90°	27.4	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°	12008.5	100.0
0°-180°	12008.5	100.0



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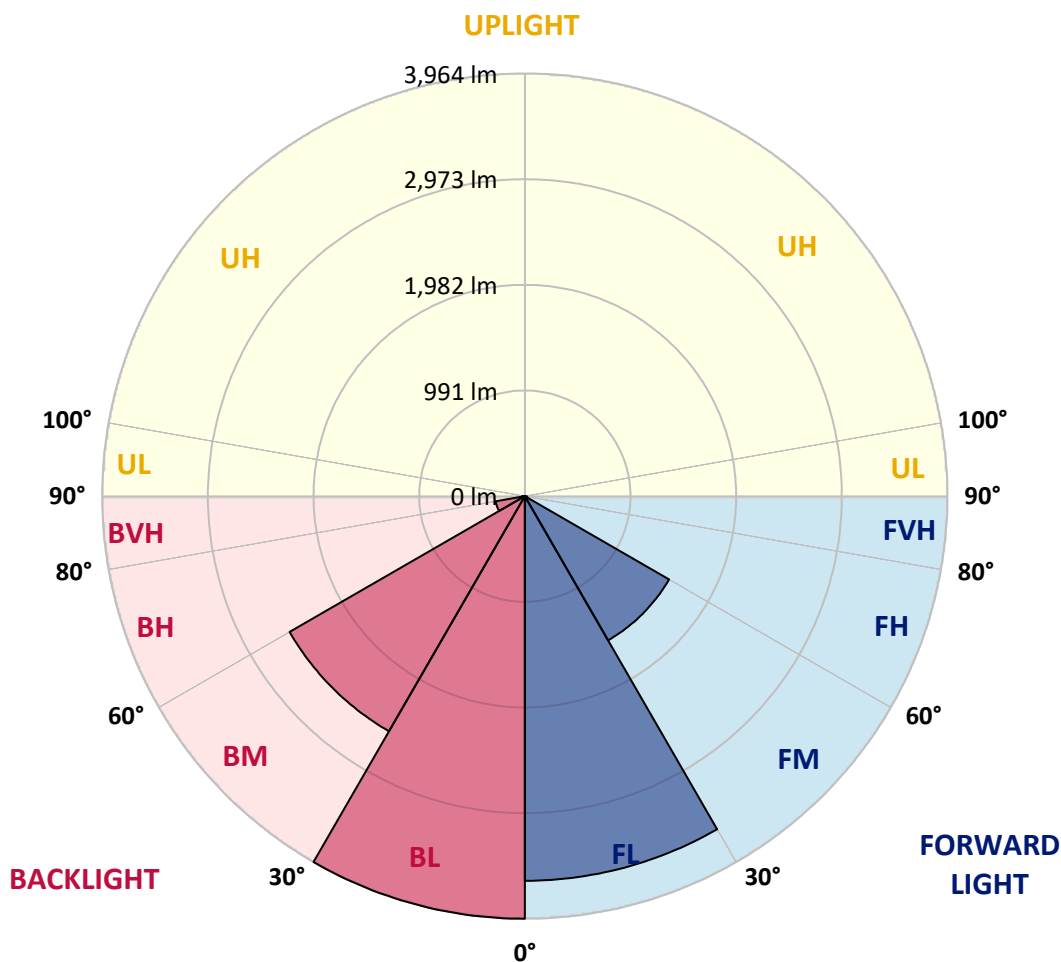
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3607.5	30.0			
FM (30°-60°)	1561.7	13.0			
FH (60°-80°)	22.6	0.2			G0/660
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	3963.8	33.0	B4/5000		
BM (30°-60°)	2547.3	21.2	B3/5000		
BH (60°-80°)	278.1	2.3	B1/500		G1/500
BVH (80°-90°)	24.9	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-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14347.2	14347.2	14347.2	14347.2	14347.2	14347.2	14347.2	14347.2	14347.2	14347.2
2.5°	14348.8	14290.2	14206.9	14199.1	14242.3	14336.4	14276.3	14279.4	14242.3	14305.6
5°	14123.6	14068.0	14011.0	13935.4	13998.6	14038.7	14007.9	13973.9	13926.1	13987.8
7.5°	13697.8	13667.0	13582.1	13548.2	13586.8	13631.5	13565.2	13555.9	13489.6	13569.8
10°	13046.9	13034.5	12951.2	12931.2	12965.1	13033.0	13003.7	12997.5	12955.9	12948.1
12.5°	12371.2	12323.4	12220.1	12213.9	12264.8	12366.6	12287.9	12212.3	12235.5	12255.5
15°	10631.2	10580.3	10836.4	11239.0	11450.3	11442.6	11465.8	11374.7	11347.0	11356.2
17.5°	8451.6	8365.2	8457.8	9081.0	10085.2	10668.3	10507.8	10311.9	10207.0	10137.6
20°	7294.7	7299.3	7282.4	7442.8	8069.1	9398.7	9360.2	8982.3	8845.0	8787.9
22.5°	6591.3	6565.1	6528.1	6579.0	6747.1	7527.6	8050.6	7703.5	7655.7	7592.4
25°	5901.8	5901.8	5857.1	5908.0	5955.8	5966.6	6491.0	6633.0	6540.4	6540.4
27.5°	5304.8	5274.0	5253.9	5277.1	5213.8	4909.9	4976.3	5702.8	5639.6	5601.0
30°	4712.5	4703.2	4669.3	4700.1	4465.7	4123.2	3984.4	4812.7	4879.1	4865.2
32.5°	3890.3	3927.3	4078.5	4126.3	3725.3	3449.1	3316.5	3995.2	4260.5	4249.7
35°	2643.9	2674.8	2847.5	3418.3	3088.2	2890.7	2852.2	3177.6	3614.2	3655.8
37.5°	2105.6	2100.9	2150.3	2252.1	2482.0	2434.1	2423.3	2508.2	2947.8	2966.3
40°	1735.4	1729.2	1727.7	1644.4	1587.3	2023.8	1994.5	1943.6	2324.6	2361.6
42.5°	1399.1	1405.3	1409.9	1227.9	1144.6	1561.1	1544.1	1491.6	1823.3	1866.5
45°	1098.3	1096.8	1106.0	914.7	891.6	998.0	1153.8	1112.2	1376.0	1422.2
47.5°	569.2	589.3	714.2	708.0	718.8	708.0	873.1	862.3	1035.0	1109.1
50°	382.6	388.7	399.5	401.1	566.1	521.4	592.3	671.0	725.0	839.1
52.5°	296.2	300.8	273.0	256.1	347.1	385.6	388.7	464.3	506.0	621.6
55°	165.1	185.1	199.0	200.5	191.3	285.4	283.8	344.0	376.4	453.5
57.5°	21.6	26.2	40.1	129.6	128.0	158.9	199.0	249.9	268.4	331.6
60°	1.5	3.1	4.6	20.1	84.8	92.6	135.7	155.8	186.6	232.9
62.5°	0.0	0.0	1.5	4.6	17.0	54.0	71.0	81.8	109.5	152.7
65°	0.0	0.0	1.5	3.1	6.2	20.1	27.8	44.7	64.8	94.1
67.5°	0.0	0.0	1.5	3.1	4.6	7.7	12.3	20.1	33.9	57.1
70°	0.0	0.0	1.5	3.1	4.6	6.2	9.3	12.3	18.5	30.9
72.5°	0.0	0.0	1.5	1.5	3.1	7.7	7.7	9.3	12.3	17.0
75°	0.0	0.0	1.5	3.1	4.6	7.7	7.7	7.7	9.3	10.8
77.5°	0.0	0.0	1.5	3.1	4.6	7.7	6.2	7.7	7.7	7.7
80°	0.0	0.0	1.5	3.1	4.6	7.7	9.3	7.7	6.2	6.2
82.5°	0.0	0.0	1.5	4.6	4.6	10.8	10.8	10.8	4.6	4.6
85°	0.0	0.0	3.1	4.6	7.7	12.3	12.3	9.3	4.6	3.1
87.5°	0.0	0.0	1.5	3.1	3.1	6.2	9.3	7.7	3.1	1.5
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°
14347.2	0°	14347.2	14347.2	14347.2	14347.2	14347.2	14347.2	14347.2	14347.2	14347.2
14213.0	2.5°	14327.2	14288.6	14361.1	14370.4	14339.5	14301.0	14211.5	14203.8	14048.0
13898.3	5°	14055.7	13992.4	14038.7	14069.6	14058.8	14017.1	13980.1	13946.2	13805.8
13387.8	7.5°	13549.7	13526.6	13548.2	13571.3	13616.1	13571.3	13555.9	13520.4	13381.6
12884.9	10°	12988.2	12945.1	13026.8	13016.0	13003.7	12991.3	12926.5	12932.7	12769.2
12200.0	12.5°	12298.7	12226.2	12304.9	12314.2	12304.9	12261.7	12189.2	12220.1	12070.4
11274.5	15°	11371.7	11363.9	11421.0	11458.0	11484.3	11438.0	11413.3	11428.7	11339.3
10083.6	17.5°	10233.3	10333.5	10520.2	10583.4	10585.0	10632.8	10618.9	10600.4	10534.1
8764.8	20°	8894.3	9087.1	9374.1	9668.7	9753.5	9713.4	9694.9	9728.8	9630.1
7526.1	22.5°	7658.7	7823.8	8157.0	8587.4	8835.7	8860.4	8855.8	8826.5	8787.9
6534.2	25°	6609.8	6756.4	7075.7	7469.0	7945.7	8016.6	8019.7	8010.4	7976.5
5634.9	27.5°	5724.4	5901.8	6077.6	6429.3	6936.8	7229.9	7192.9	7182.1	7169.8
4876.0	30°	4922.3	5145.9	5311.0	5530.0	5985.1	6381.5	6420.1	6401.6	6372.3
4248.2	32.5°	4286.7	4419.4	4629.2	4777.3	5104.3	5553.2	5701.3	5687.4	5661.1
3682.1	35°	3734.5	3787.0	3952.0	4117.1	4334.6	4769.6	4988.6	4957.7	4953.1
3000.3	37.5°	3075.8	3251.7	3342.7	3509.3	3662.0	3999.8	4302.2	4288.3	4289.8
2412.5	40°	2483.5	2585.3	2765.8	2906.2	3046.5	3293.3	3629.6	3638.9	3635.8
1868.0	42.5°	1906.6	2005.3	2195.0	2347.8	2472.7	2625.4	2946.3	2957.1	2970.9
1454.6	45°	1488.6	1551.8	1690.6	1849.5	1982.2	2074.7	2318.4	2387.9	2389.4
1127.6	47.5°	1155.4	1227.9	1326.6	1479.3	1608.9	1675.2	1852.6	1946.7	1942.1
865.4	50°	907.0	973.3	1053.6	1173.9	1314.2	1366.7	1497.8	1590.4	1585.7
652.5	52.5°	694.1	779.0	849.9	942.5	1079.8	1124.5	1218.6	1325.0	1309.6
478.2	55°	526.0	612.4	678.7	755.8	880.8	937.9	1002.7	1087.5	1090.6
370.2	57.5°	396.4	485.9	546.1	624.7	718.8	782.1	831.4	922.4	920.9
253.0	60°	283.8	361.0	433.5	515.2	587.7	660.2	694.1	780.5	783.6
178.9	62.5°	205.2	277.7	347.1	418.0	482.8	553.8	584.6	652.5	661.8
117.2	65°	143.5	194.4	274.6	328.6	401.1	453.5	493.6	552.2	563.0
69.4	67.5°	92.6	140.4	217.5	265.3	331.6	376.4	418.0	464.3	478.2
44.7	70°	55.5	106.4	162.0	212.9	273.0	313.1	353.2	393.3	401.1
21.6	72.5°	35.5	74.0	117.2	172.8	219.0	262.2	297.7	327.0	303.9
13.9	75°	20.1	50.9	92.6	135.7	177.4	219.0	248.4	263.8	211.3
9.3	77.5°	12.3	37.0	75.6	109.5	137.3	175.9	194.4	203.6	151.2
6.2	80°	7.7	27.8	63.2	89.5	89.5	129.6	151.2	158.9	109.5
4.6	82.5°	6.2	20.1	49.4	67.9	60.2	97.2	118.8	120.3	77.1
3.1	85°	4.6	15.4	30.9	44.7	41.6	67.9	69.4	77.1	50.9
3.1	87.5°	3.1	9.3	18.5	26.2	23.1	32.4	37.0	41.6	27.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
14347.2
13926.1
13693.2
13352.3
12713.7
12027.2
11231.3
10435.3
9559.2
8713.8
7862.4
7097.3
6335.2
5591.7
4902.2
4240.5
3581.8
2924.7
2349.3
1925.1
1585.7
1311.2
1090.6
917.8
775.9
658.7
559.9
476.6
394.9
282.3
200.5
141.9
101.8
71.0
46.3
24.7
0.0

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