

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: P637090

Luminaire Tested: **IFLD-S-SA3A-735-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637090
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-735-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (48) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13495.1 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

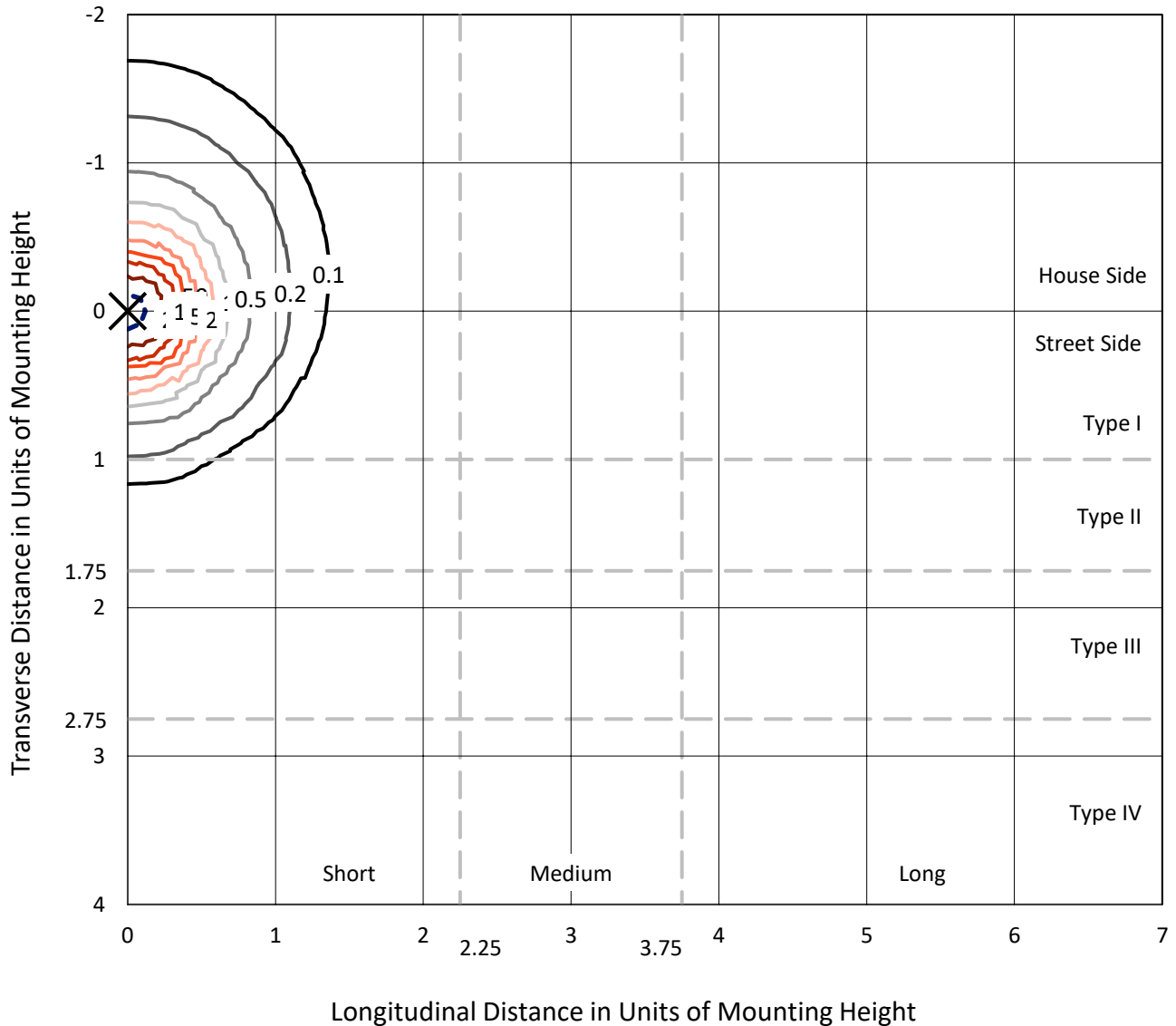
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

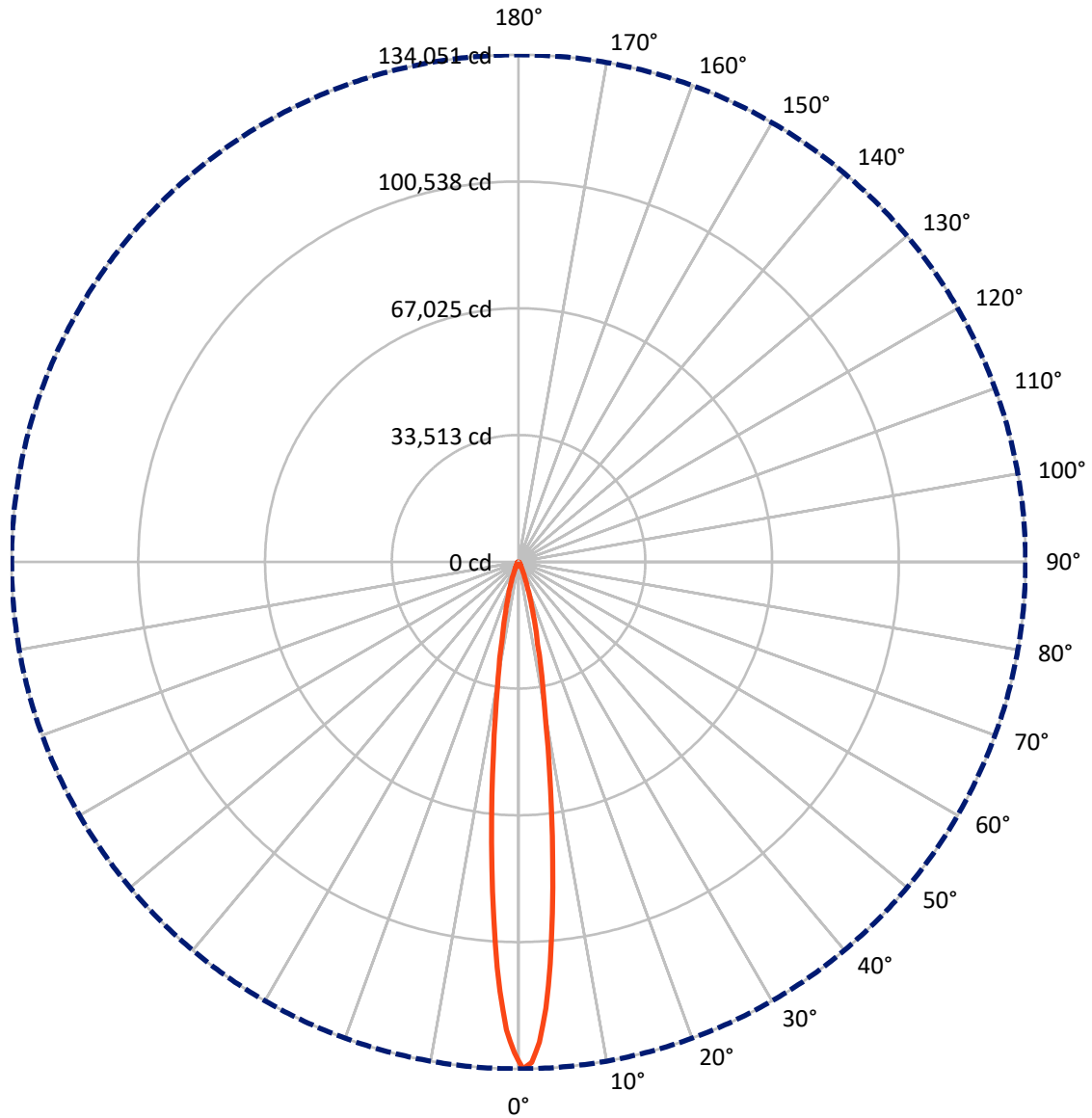
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 335.1 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	6912.0	0.0	6912.0
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	6583.2	0.0	6583.2
	% Fixture	48.8	0.0	48.8
Total	Lumens	13495.1	0.0	13495.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6812.8	50.5
10°-20°	4361.5	32.3
20°-30°	1311.0	9.7
30°-40°	426.9	3.2
40°-50°	248.4	1.8
50°-60°	165.0	1.2
60°-70°	99.3	0.7
70°-80°	51.0	0.4
80°-90°	19.4	0.1
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°	13495.1	100.0
0°-180°	13495.1	100.0

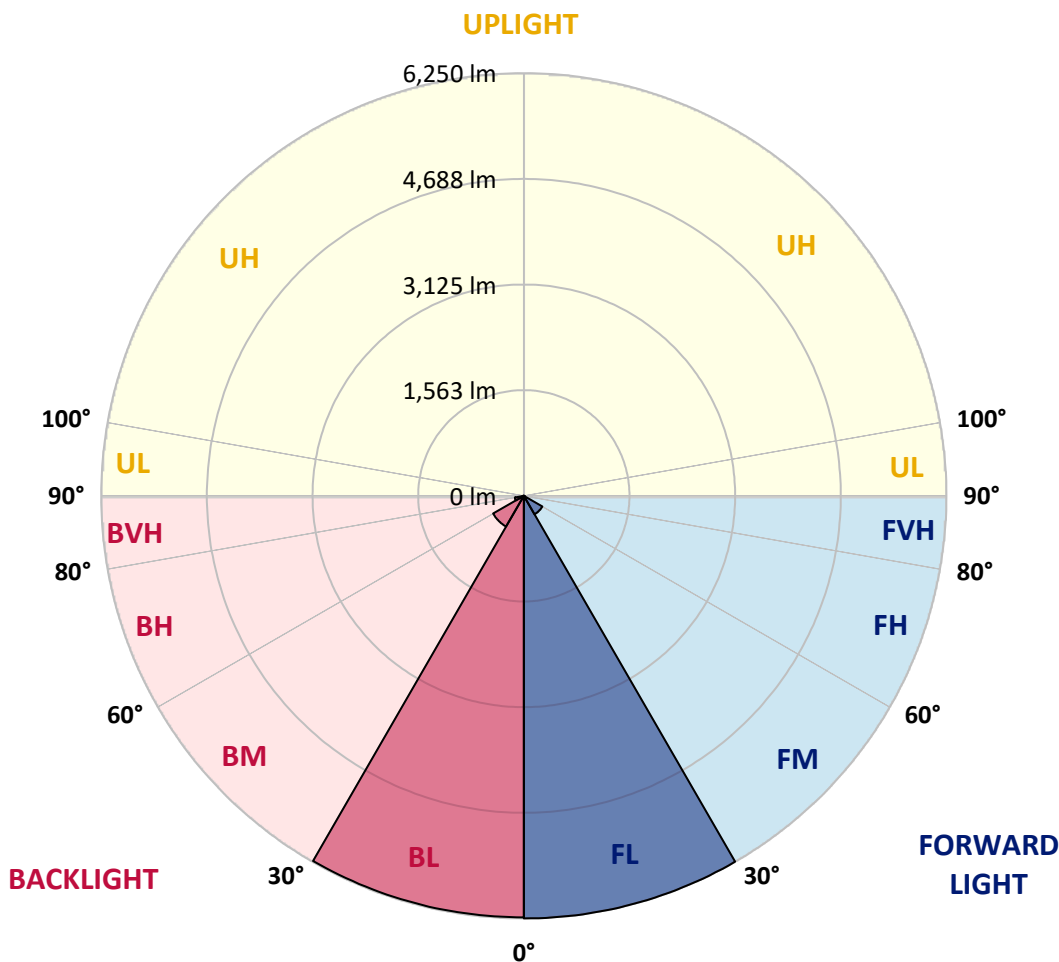


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6250.0	46.3			
FM (30°-60°)	315.4	2.3			
FH (60°-80°)	14.8	0.1			G0/660
FVH (80°-90°)	2.9	0.0			G0/10
BL (0°-30°)	6235.2	46.2	B5		
BM (30°-60°)	524.8	3.9	B1/1000		
BH (60°-80°)	135.5	1.0	B1/500		G0/660
BVH (80°-90°)	16.5	0.1			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°	134050.6	134050.6	134050.6	134050.6	134050.6	134050.6	134050.6	134050.6	134050.6	134050.6
1°	132445.5	132041.3	130997.7	131740.0	132392.6	132203.0	132189.8	132119.2	132020.8	132793.9
2°	127151.2	126889.6	125346.2	125982.7	126910.1	126234.0	126657.3	126285.4	126292.8	127215.9
3°	118226.3	118368.9	115906.9	117063.7	118352.7	116713.9	117222.4	118177.8	117176.9	116875.6
4°	106626.4	105388.8	104043.9	105219.7	105553.4	104599.5	105537.2	106707.2	105316.8	105378.5
5°	93383.1	92468.9	90877.1	91603.2	90775.7	91077.0	92482.1	92964.2	91994.2	90772.7
6°	79766.6	79116.9	77126.8	78173.3	77879.3	77708.8	79482.9	78013.1	78542.2	77802.9
7°	66349.9	65135.8	64158.4	65160.8	65225.5	64712.5	67015.7	66748.2	65785.5	65562.1
8°	54971.9	53760.8	52933.2	53679.9	54167.9	53362.4	54445.7	55157.1	54404.5	54472.2
9°	44337.6	44124.5	42973.6	43949.6	44480.2	43617.4	44816.8	45074.0	44370.0	44712.4
10°	36404.9	36156.5	35237.9	35633.3	36512.2	35483.3	36634.2	36718.0	36156.5	36316.7
12.5°	22497.3	22397.4	22372.4	22429.7	22418.0	22600.2	22894.2	22559.1	22515.0	21960.8
15°	14541.1	14689.6	14536.7	14830.7	14873.3	15045.3	14865.9	14595.5	14079.6	13823.8
17.5°	9074.8	9264.4	9526.0	9956.7	10387.3	10437.3	10199.2	9881.7	9631.8	9358.5
20°	5220.9	5313.5	5273.8	5789.7	6903.8	7206.6	6899.4	6565.8	6264.4	5988.1
22.5°	3243.9	3210.1	3271.9	3445.3	3808.3	4744.6	4493.3	4159.6	3940.6	3712.8
25°	1988.7	2025.4	2001.9	2097.5	2260.6	2657.5	2714.8	2570.7	2459.0	2341.5
27.5°	1280.2	1280.2	1290.5	1343.4	1455.1	1441.9	1747.6	1635.9	1575.7	1518.3
30°	889.3	892.2	892.2	923.1	948.0	903.9	983.3	1127.4	1099.4	1055.3
32.5°	660.0	668.8	676.1	692.3	671.7	624.7	643.8	811.3	795.2	779.0
35°	502.7	510.0	527.7	536.5	507.1	477.7	460.1	596.8	604.1	599.7
37.5°	366.0	370.4	402.7	436.5	402.7	376.3	366.0	458.6	493.9	489.5
40°	280.7	282.2	288.1	326.3	326.3	305.7	308.7	342.5	404.2	404.2
42.5°	241.1	241.1	246.9	241.1	242.5	264.6	271.9	276.3	342.5	342.5
45°	208.7	208.7	211.7	197.0	182.3	227.8	233.7	235.2	288.1	295.4
47.5°	174.9	174.9	180.8	161.7	154.3	180.8	197.0	201.4	248.4	254.3
50°	129.3	130.8	148.5	132.3	136.7	139.6	170.5	173.4	210.2	223.4
52.5°	86.7	86.7	89.7	102.9	119.1	114.6	138.2	148.5	167.6	185.2
55°	70.6	70.6	69.1	66.1	88.2	95.5	101.4	123.5	136.7	158.7
57.5°	48.5	51.4	47.0	54.4	57.3	72.0	76.4	97.0	104.4	133.8
60°	5.9	7.3	10.3	39.7	38.2	48.5	57.3	76.4	85.3	102.9
62.5°	1.5	1.5	2.9	7.3	26.5	32.3	45.6	52.9	61.7	79.4
65°	0.0	0.0	1.5	2.9	5.9	17.6	23.5	30.9	44.1	55.9
67.5°	0.0	0.0	1.5	2.9	2.9	7.3	11.8	19.1	23.5	41.2
70°	0.0	0.0	1.5	2.9	2.9	5.9	7.3	8.8	16.2	22.0
72.5°	0.0	0.0	1.5	2.9	4.4	5.9	7.3	7.3	7.3	14.7
75°	0.0	0.0	1.5	2.9	4.4	5.9	7.3	7.3	5.9	5.9
77.5°	0.0	0.0	1.5	2.9	5.9	7.3	8.8	7.3	4.4	4.4
80°	0.0	0.0	1.5	4.4	7.3	10.3	11.8	8.8	4.4	2.9
82.5°	0.0	0.0	2.9	5.9	8.8	11.8	16.2	13.2	5.9	2.9
85°	0.0	0.0	1.5	4.4	8.8	11.8	23.5	16.2	7.3	1.5
87.5°	0.0	0.0	0.0	1.5	1.5	2.9	8.8	5.9	2.9	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°
134050.6	0°	134050.6	134050.6	134050.6	134050.6	134050.6	134050.6	134050.6	134050.6
131901.7	1°	132823.3	132915.9	132613.1	133082.0	132917.4	131953.1	131634.2	131256.4
126673.5	2°	126285.4	126757.3	126780.8	127301.1	127293.8	126169.3	125821.0	126463.3
117487.0	3°	117131.3	117681.0	117185.7	118110.2	117832.4	116468.4	116114.2	116843.2
105866.5	4°	105550.5	105446.1	105275.6	104749.4	105397.6	104467.2	103766.1	104755.3
92392.5	5°	92207.3	91975.0	91642.9	91487.1	91969.2	91373.9	89932.0	91376.8
79140.4	6°	79237.4	78238.0	78189.4	78102.7	78151.2	76484.4	76584.4	77660.3
64793.4	7°	65478.3	65662.0	65287.2	65888.4	65429.8	64301.0	63865.9	64999.1
54769.1	8°	54386.9	54154.7	53868.1	54766.1	53970.9	53230.1	52723.1	53618.2
44768.3	9°	44684.5	44283.2	43992.2	43946.7	44070.1	42679.7	42961.9	43639.5
36404.9	10°	36418.1	35759.7	35919.9	35962.5	35827.3	34916.0	34924.8	35158.5
22328.3	12.5°	22248.9	21925.6	22006.4	22050.5	22325.4	22004.9	21552.2	21225.9
14078.1	15°	13984.0	13751.8	14226.6	14545.5	14480.8	14195.7	13982.6	13687.1
9358.5	17.5°	9271.7	9576.0	9577.5	9868.5	9897.9	9612.7	9448.1	9182.1
6086.6	20°	6064.5	6191.0	6454.1	6659.8	6778.9	6561.4	6364.4	6182.1
3795.1	22.5°	3795.1	4015.6	4180.2	4447.7	4556.5	4397.8	4258.1	4109.7
2369.4	25°	2329.7	2487.0	2623.7	2855.9	3004.3	2927.9	2800.0	2695.7
1530.1	27.5°	1553.6	1619.8	1687.4	1847.6	2001.9	1959.3	1907.8	1844.6
1078.9	30°	1095.0	1100.9	1172.9	1262.6	1365.5	1391.9	1368.4	1336.1
792.2	32.5°	806.9	830.5	864.3	920.1	989.2	1052.4	1040.6	1025.9
605.6	35°	623.2	658.5	686.4	729.0	765.8	826.0	836.3	831.9
498.3	37.5°	508.6	539.4	567.4	592.3	623.2	664.4	696.7	698.2
411.6	40°	421.8	449.8	486.5	505.6	527.7	558.5	598.2	601.2
348.4	42.5°	355.7	382.2	418.9	442.4	458.6	488.0	527.7	533.6
298.4	45°	305.7	321.9	360.1	388.0	404.2	423.3	465.9	471.8
257.2	47.5°	266.0	282.2	305.7	345.4	360.1	377.7	411.6	421.8
227.8	50°	233.7	249.9	270.4	305.7	327.8	342.5	370.4	385.1
198.4	52.5°	207.2	223.4	245.5	273.4	298.4	311.6	338.1	357.2
161.7	55°	173.4	201.4	217.5	242.5	276.3	288.1	308.7	333.7
141.1	57.5°	151.4	174.9	198.4	219.0	252.8	267.5	288.1	311.6
111.7	60°	127.9	149.9	177.9	195.5	227.8	246.9	269.0	291.0
85.3	62.5°	101.4	130.8	149.9	174.9	205.8	230.8	248.4	270.4
66.1	65°	75.0	107.3	129.3	155.8	185.2	211.7	226.4	249.9
47.0	67.5°	54.4	83.8	110.2	135.2	163.2	189.6	204.3	224.9
29.4	70°	42.6	61.7	91.1	113.2	142.6	164.6	180.8	194.0
19.1	72.5°	25.0	47.0	73.5	98.5	124.9	139.6	151.4	163.2
8.8	75°	16.2	36.7	60.3	82.3	101.4	114.6	124.9	135.2
4.4	77.5°	10.3	26.5	48.5	69.1	77.9	94.1	102.9	108.8
2.9	80°	5.9	20.6	42.6	55.9	63.2	73.5	82.3	89.7
2.9	82.5°	4.4	17.6	35.3	47.0	47.0	58.8	63.2	63.2
1.5	85°	2.9	14.7	27.9	44.1	35.3	44.1	41.2	41.2
1.5	87.5°	2.9	10.3	13.2	19.1	16.2	19.1	19.1	22.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
134050.6
129760.1
123742.6
113605.2
101174.8
87569.9
74541.3
61916.9
51062.1
41522.9
33568.1
21027.5
13535.7
9115.9
6118.9
4030.3
2635.4
1807.9
1314.0
1014.2
817.2
687.9
596.8
529.1
470.3
423.3
386.6
357.2
335.1
313.1
296.9
280.7
254.3
226.4
198.4
166.1
135.2
105.8
80.8
58.8
39.7
22.0
0.0

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