

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: P637102

Luminaire Tested: **IFLD-M-SA4C-735-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637102
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-735-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27887.4 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

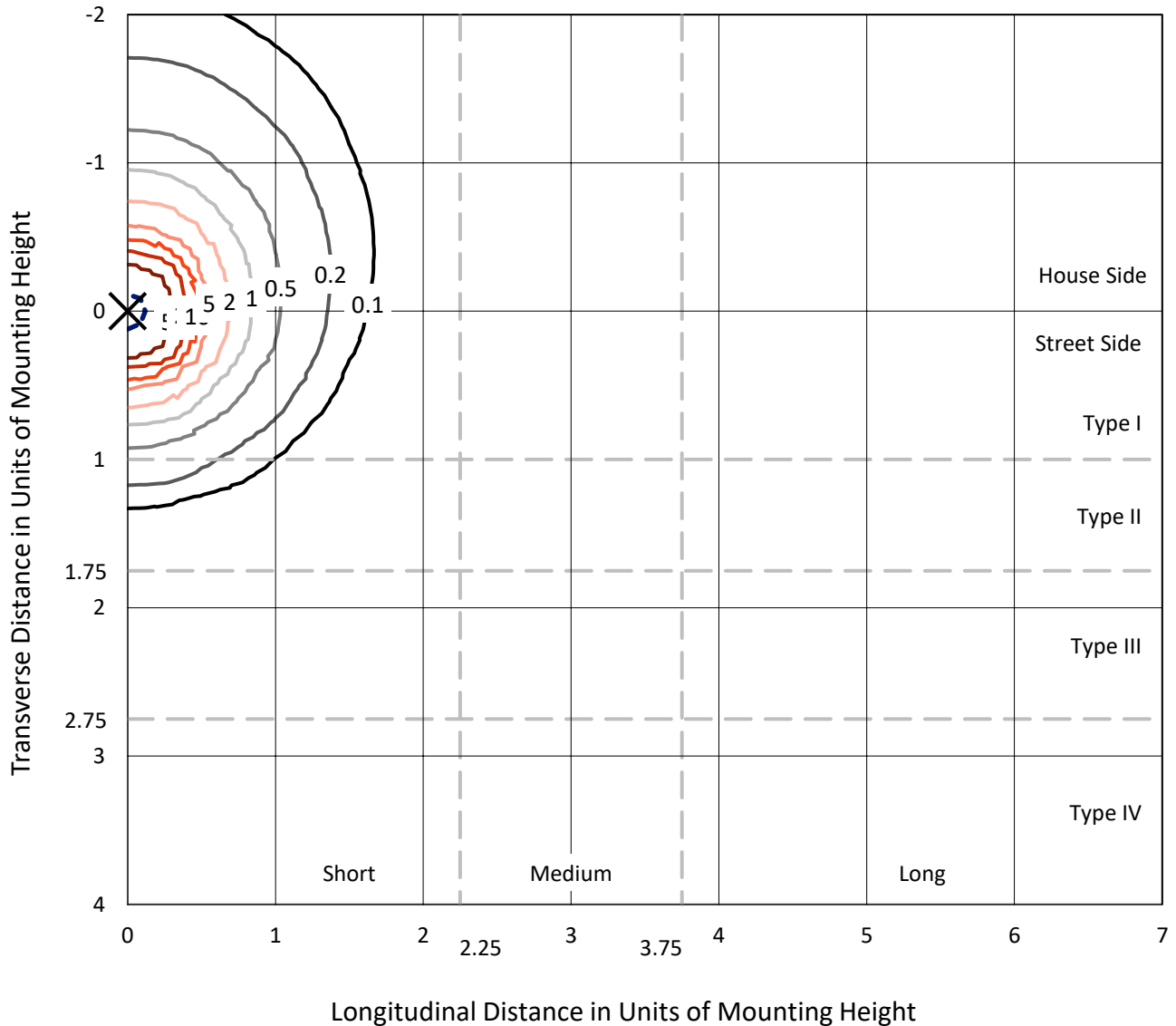
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

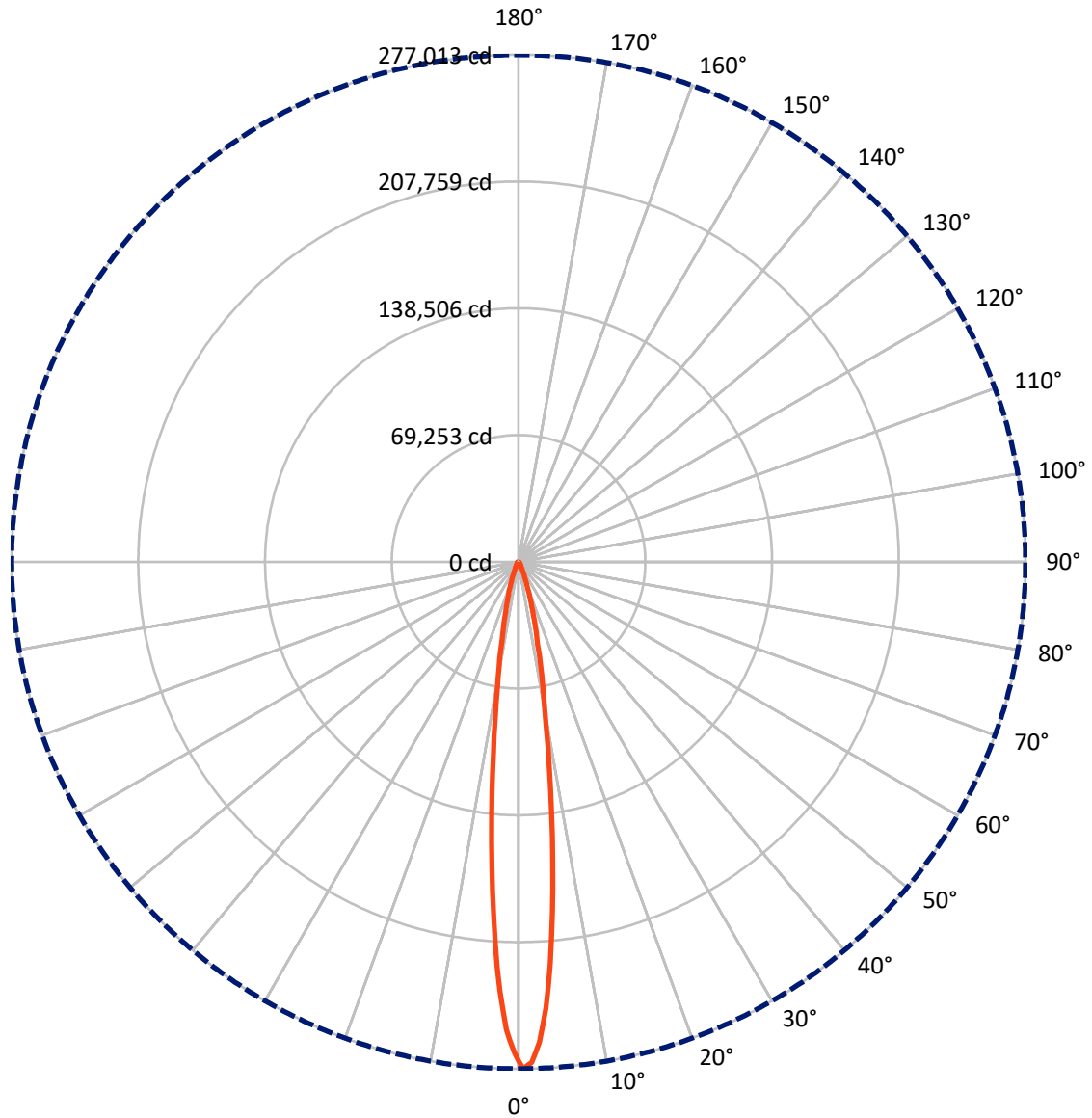
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 692.5 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	14283.4	0.0	14283.4
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	13604.0	0.0	13604.0
	% Fixture	48.8	0.0	48.8
Total	Lumens	27887.4	0.0	27887.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14078.4	50.5
10°-20°	9012.9	32.3
20°-30°	2709.1	9.7
30°-40°	882.1	3.2
40°-50°	513.2	1.8
50°-60°	340.9	1.2
60°-70°	205.2	0.7
70°-80°	105.5	0.4
80°-90°	40.1	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°	27887.4	100.0
0°-180°	27887.4	100.0

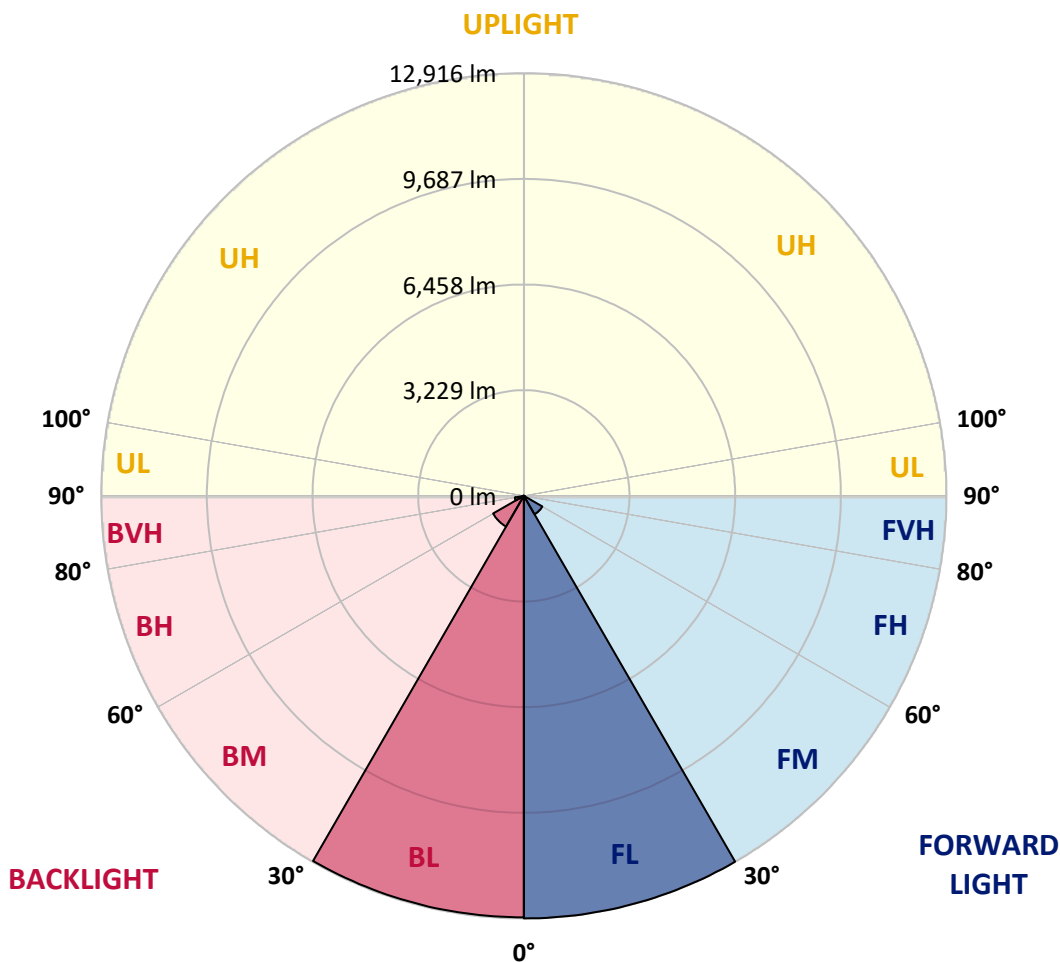


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12915.5	46.3			
FM (30°-60°)	651.7	2.3			
FH (60°-80°)	30.7	0.1			G0/660
FVH (80°-90°)	6.0	0.0			G0/10
BL (0°-30°)	12884.9	46.2	B5		
BM (30°-60°)	1084.5	3.9	B2/2500		
BH (60°-80°)	280.0	1.0	B1/500		G0/660
BVH (80°-90°)	34.0	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°	277012.5	277012.5	277012.5	277012.5	277012.5	277012.5	277012.5	277012.5	277012.5	277012.5
1°	273695.7	272860.4	270703.9	272237.8	273586.4	273194.5	273167.2	273021.4	272817.9	274415.6
2°	262755.1	262214.4	259025.1	260340.3	262256.9	260859.7	261734.5	260966.0	260981.2	262888.7
3°	244312.1	244606.7	239519.1	241909.5	244573.3	241186.6	242237.5	244211.8	242143.4	241520.7
4°	220341.0	217783.5	215004.3	217434.2	218123.7	216152.5	218090.3	220508.1	217634.7	217762.3
5°	192974.2	191084.9	187795.4	189295.9	187585.9	188208.5	191112.3	192108.5	190103.8	187579.8
6°	164835.8	163493.3	159380.7	161543.3	160935.8	160583.5	164249.6	161212.2	162305.7	160777.9
7°	137110.6	134601.7	132581.9	134653.3	134787.0	133726.9	138486.5	137933.7	135944.2	135482.6
8°	113598.2	111095.4	109385.3	110928.3	111936.7	110272.3	112510.8	113980.9	112425.8	112565.5
9°	91622.7	91182.3	88804.0	90820.8	91917.3	90134.4	92612.9	93144.4	91689.5	92397.2
10°	75229.9	74716.6	72818.3	73635.3	75451.7	73325.5	75703.8	75876.9	74716.6	75047.7
12.5°	46490.2	46283.7	46232.0	46350.5	46326.2	46702.8	47310.3	46617.8	46526.7	45381.6
15°	30048.8	30355.6	30039.7	30647.2	30735.3	31090.7	30720.1	30161.2	29095.1	28566.6
17.5°	18752.8	19144.6	19685.3	20575.2	21465.2	21568.5	21076.4	20420.3	19904.0	19339.0
20°	10788.8	10980.1	10898.1	11964.3	14266.6	14892.3	14257.5	13568.0	12945.3	12374.3
22.5°	6703.5	6633.6	6761.2	7119.6	7869.9	9804.7	9285.3	8595.8	8143.2	7672.4
25°	4109.6	4185.5	4136.9	4334.3	4671.5	5491.6	5610.0	5312.4	5081.5	4838.6
27.5°	2645.6	2645.6	2666.8	2776.2	3007.0	2979.7	3611.5	3380.6	3256.1	3137.6
30°	1837.6	1843.7	1843.7	1907.5	1959.1	1868.0	2032.0	2329.7	2272.0	2180.8
32.5°	1363.8	1382.0	1397.2	1430.6	1388.1	1290.9	1330.4	1676.6	1643.2	1609.8
35°	1038.8	1054.0	1090.4	1108.6	1047.9	987.2	950.7	1233.2	1248.4	1239.3
37.5°	756.3	765.4	832.2	902.1	832.2	777.6	756.3	947.7	1020.6	1011.4
40°	580.1	583.2	595.3	674.3	674.3	631.8	637.9	707.7	835.3	835.3
42.5°	498.1	498.1	510.3	498.1	501.2	546.7	561.9	571.0	707.7	707.7
45°	431.3	431.3	437.4	407.0	376.6	470.8	482.9	486.0	595.3	610.5
47.5°	361.4	361.4	373.6	334.1	318.9	373.6	407.0	416.1	513.3	525.5
50°	267.3	270.3	306.8	273.4	282.5	288.6	352.3	358.4	434.3	461.7
52.5°	179.2	179.2	185.3	212.6	246.0	236.9	285.5	306.8	346.3	382.7
55°	145.8	145.8	142.8	136.7	182.2	197.4	209.6	255.1	282.5	328.0
57.5°	100.2	106.3	97.2	112.4	118.5	148.8	157.9	200.5	215.7	276.4
60°	12.1	15.2	21.3	82.0	79.0	100.2	118.5	157.9	176.2	212.6
62.5°	3.0	3.0	6.1	15.2	54.7	66.8	94.2	109.3	127.6	164.0
65°	0.0	0.0	3.0	6.1	12.1	36.4	48.6	63.8	91.1	115.4
67.5°	0.0	0.0	3.0	6.1	6.1	15.2	24.3	39.5	48.6	85.0
70°	0.0	0.0	3.0	6.1	6.1	12.1	15.2	18.2	33.4	45.6
72.5°	0.0	0.0	3.0	6.1	9.1	12.1	15.2	15.2	15.2	30.4
75°	0.0	0.0	3.0	6.1	9.1	12.1	15.2	15.2	12.1	12.1
77.5°	0.0	0.0	3.0	6.1	12.1	15.2	18.2	15.2	9.1	9.1
80°	0.0	0.0	3.0	9.1	15.2	21.3	24.3	18.2	9.1	6.1
82.5°	0.0	0.0	6.1	12.1	18.2	24.3	33.4	27.3	12.1	6.1
85°	0.0	0.0	3.0	9.1	18.2	24.3	48.6	33.4	15.2	3.0
87.5°	0.0	0.0	0.0	3.0	3.0	6.1	18.2	12.1	6.1	3.0
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°
277012.5	0°	277012.5	277012.5	277012.5	277012.5	277012.5	277012.5	277012.5	277012.5
272571.9	1°	274476.3	274667.7	274042.0	275010.9	274670.7	272678.2	272019.1	271238.5
261767.9	2°	260966.0	261941.0	261989.6	263064.9	263049.7	260726.1	260006.2	261333.6
242784.3	3°	242049.2	243185.2	242161.6	244072.1	243498.0	240679.3	239947.3	241453.9
218770.7	4°	218117.6	217902.0	217549.7	216462.3	217801.8	215879.1	214430.3	216474.4
190927.0	5°	190544.3	190064.4	189377.9	189055.9	190052.2	188822.1	185842.4	188828.1
163541.9	6°	163742.4	161677.0	161576.7	161397.5	161497.8	158053.4	158259.9	160483.3
133894.0	7°	135309.4	135689.1	134914.6	136156.9	135209.2	132876.5	131977.4	134319.2
113179.0	8°	112389.3	111909.4	111317.1	113173.0	111529.7	109998.9	108951.0	110800.8
92512.7	9°	92339.5	91510.3	90908.9	90814.8	91069.9	88196.5	88779.7	90180.0
75229.9	10°	75257.3	73896.5	74227.6	74315.7	74036.3	72153.1	72171.3	72654.2
46140.9	12.5°	45976.9	45308.7	45475.7	45566.8	46134.8	45472.7	44537.2	43862.9
29092.1	15°	28897.7	28417.8	29398.8	30058.0	29924.3	29335.1	28894.6	28284.1
19339.0	17.5°	19159.8	19788.6	19791.6	20393.0	20453.7	19864.5	19524.3	18974.5
12577.8	20°	12532.3	12793.5	13337.2	13762.4	14008.4	13558.9	13151.9	12775.2
7842.5	22.5°	7842.5	8298.1	8638.3	9191.1	9415.9	9087.9	8799.3	8492.5
4896.3	25°	4814.3	5139.3	5421.7	5901.6	6208.4	6050.5	5786.2	5570.6
3161.9	27.5°	3210.5	3347.2	3486.9	3818.0	4136.9	4048.8	3942.5	3811.9
2229.4	30°	2262.9	2275.0	2423.8	2609.1	2821.7	2876.4	2827.8	2761.0
1637.2	32.5°	1667.5	1716.1	1786.0	1901.4	2044.2	2174.8	2150.5	2120.1
1251.4	35°	1287.9	1360.7	1418.5	1506.5	1582.5	1707.0	1728.3	1719.2
1029.7	37.5°	1050.9	1114.7	1172.4	1224.1	1287.9	1372.9	1439.7	1442.8
850.5	40°	871.7	929.4	1005.4	1044.9	1090.4	1154.2	1236.2	1242.3
719.9	42.5°	735.0	789.7	865.7	914.3	947.7	1008.4	1090.4	1102.6
616.6	45°	631.8	665.2	744.2	801.9	835.3	874.8	962.9	975.0
531.5	47.5°	549.8	583.2	631.8	713.8	744.2	780.6	850.5	871.7
470.8	50°	482.9	516.4	558.9	631.8	677.3	707.7	765.4	795.8
410.0	52.5°	428.3	461.7	507.2	565.0	616.6	643.9	698.6	738.1
334.1	55°	358.4	416.1	449.5	501.2	571.0	595.3	637.9	689.5
291.6	57.5°	312.9	361.4	410.0	452.6	522.4	552.8	595.3	643.9
230.8	60°	264.3	309.8	367.5	404.0	470.8	510.3	555.8	601.4
176.2	62.5°	209.6	270.3	309.8	361.4	425.2	476.9	513.3	558.9
136.7	65°	154.9	221.7	267.3	322.0	382.7	437.4	467.8	516.4
97.2	67.5°	112.4	173.1	227.8	279.4	337.1	391.8	422.2	464.7
60.7	70°	88.1	127.6	188.3	233.9	294.6	340.2	373.6	400.9
39.5	72.5°	51.6	97.2	151.9	203.5	258.2	288.6	312.9	337.1
18.2	75°	33.4	75.9	124.5	170.1	209.6	236.9	258.2	279.4
9.1	77.5°	21.3	54.7	100.2	142.8	161.0	194.4	212.6	224.8
6.1	80°	12.1	42.5	88.1	115.4	130.6	151.9	170.1	185.3
6.1	82.5°	9.1	36.4	72.9	97.2	97.2	121.5	130.6	130.6
3.0	85°	6.1	30.4	57.7	91.1	72.9	91.1	85.0	85.0
3.0	87.5°	6.1	21.3	27.3	39.5	33.4	39.5	39.5	45.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
277012.5
268146.4
255711.4
234762.5
209075.4
180961.3
154037.9
127949.8
105518.8
85806.1
69367.8
43452.8
27971.3
18837.9
12644.6
8328.5
5446.0
3736.0
2715.4
2095.8
1688.8
1421.5
1233.2
1093.5
972.0
874.8
798.8
738.1
692.5
647.0
613.6
580.1
525.5
467.8
410.0
343.2
279.4
218.7
167.1
121.5
82.0
45.6
0.0

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