

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: P637132

Luminaire Tested: **IFLD-M-SA4D-740-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637132
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-740-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31111.3 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

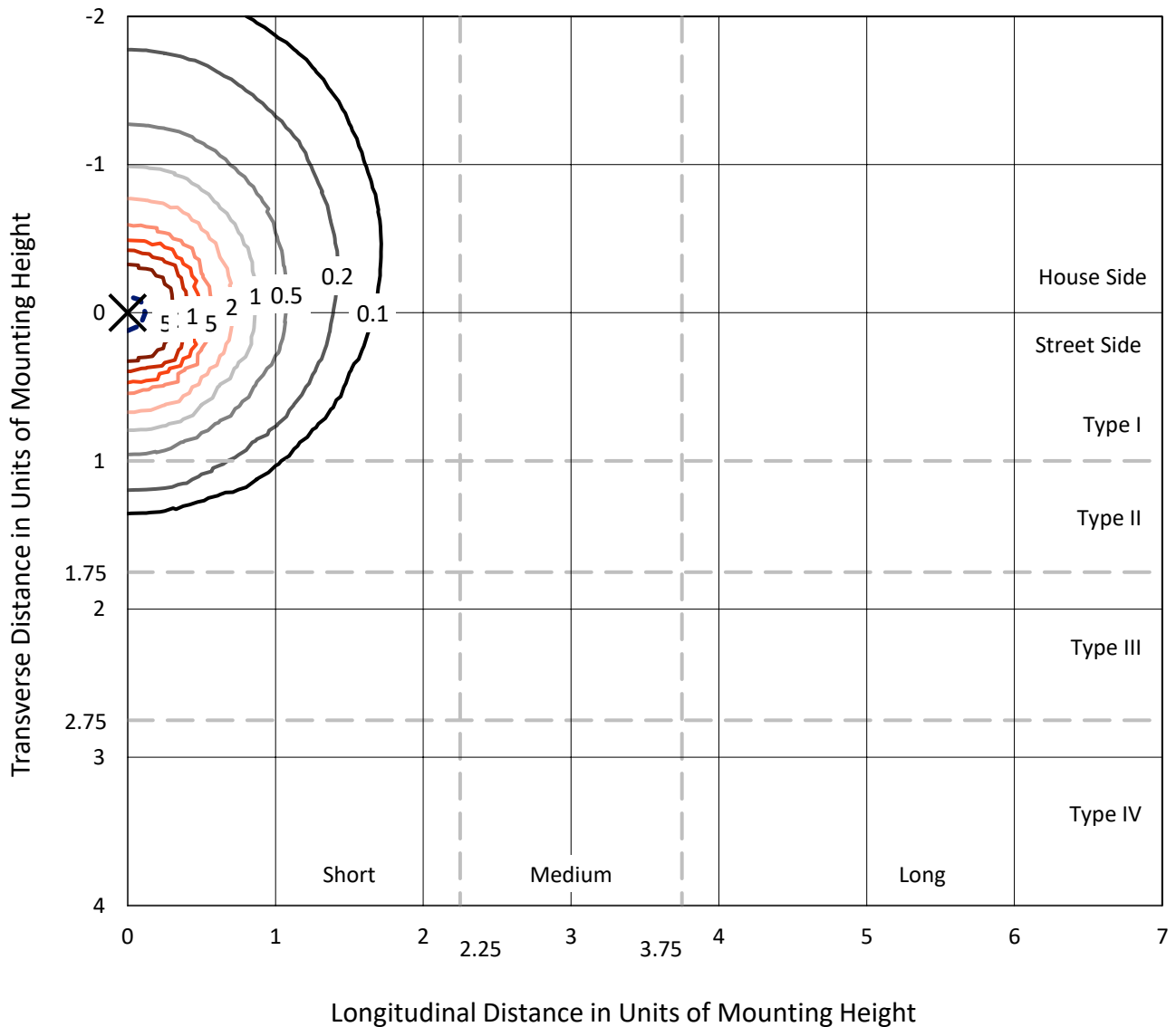
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

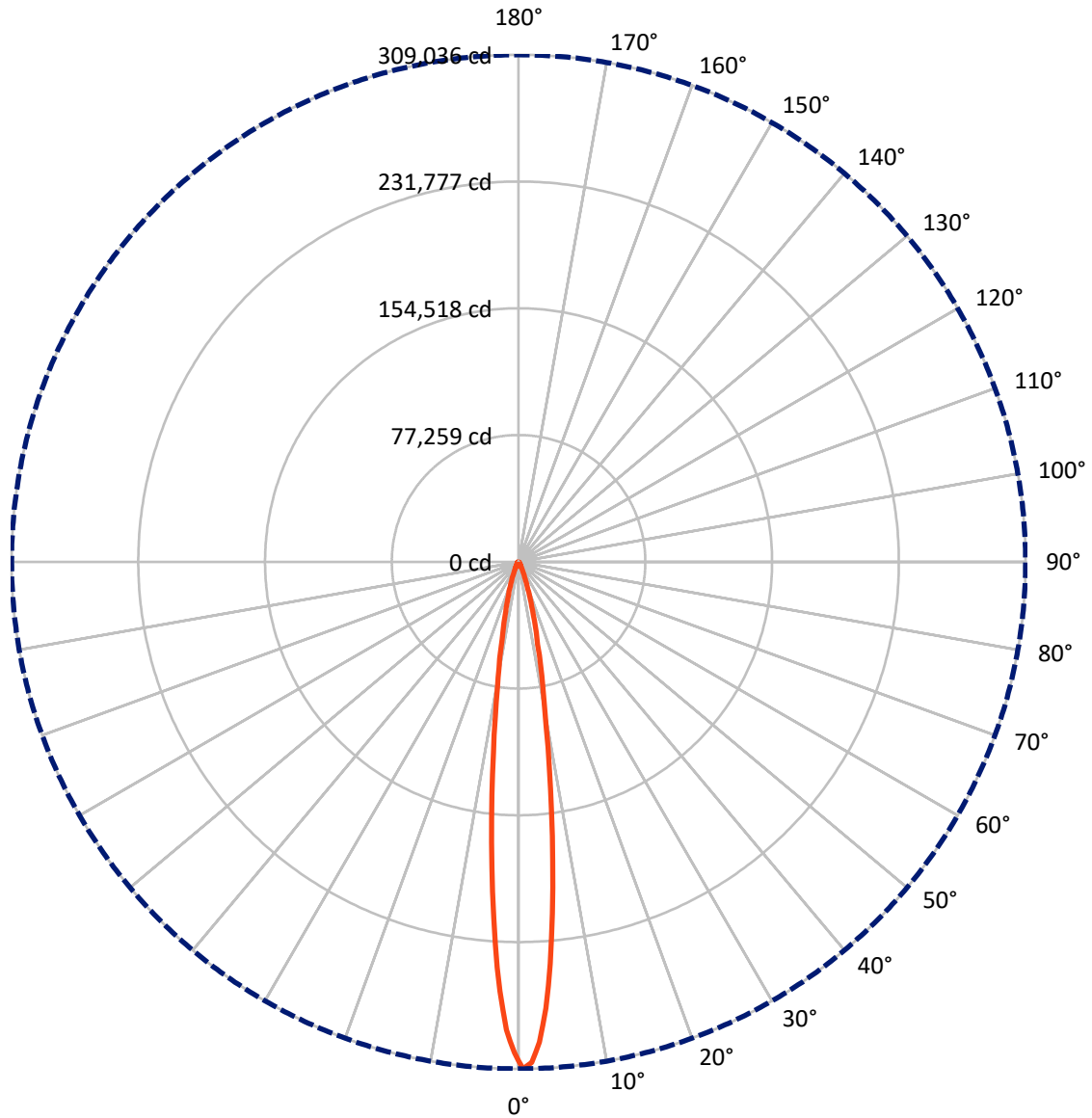
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 772.6 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	15934.6	0.0	15934.6
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	15176.7	0.0	15176.7
	% Fixture	48.8	0.0	48.8
Total	Lumens	31111.3	0.0	31111.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15705.9	50.5
10°-20°	10054.9	32.3
20°-30°	3022.3	9.7
30°-40°	984.1	3.2
40°-50°	572.6	1.8
50°-60°	380.3	1.2
60°-70°	228.9	0.7
70°-80°	117.7	0.4
80°-90°	44.7	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°	31111.3	100.0
0°-180°	31111.3	100.0

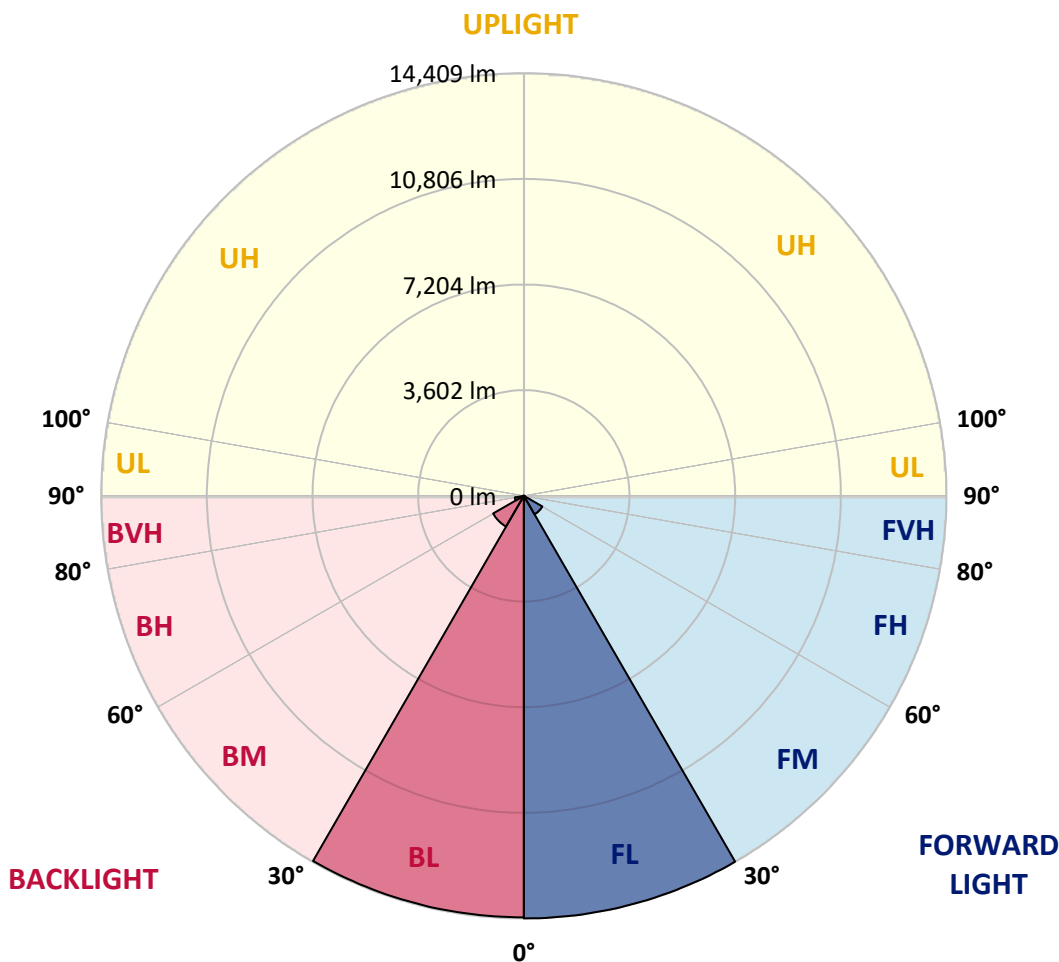


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	14408.6	46.3			
FM (30°-60°)	727.1	2.3			
FH (60°-80°)	34.2	0.1			G0/660
FVH (80°-90°)	6.7	0.0			G0/10
BL (0°-30°)	14374.5	46.2	B5		
BM (30°-60°)	1209.8	3.9	B2/2500		
BH (60°-80°)	312.4	1.0	B1/500		G0/660
BVH (80°-90°)	38.0	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°	309036.0	309036.0	309036.0	309036.0	309036.0	309036.0	309036.0	309036.0	309036.0	309036.0
1°	305335.8	304403.9	301998.1	303709.3	305213.8	304776.7	304746.2	304583.5	304356.5	306138.9
2°	293130.3	292527.2	288969.2	290436.5	292574.6	291015.9	291991.8	291134.5	291151.5	293279.4
3°	272555.3	272884.0	267208.2	269875.0	272846.7	269068.5	270240.9	272443.5	270135.9	269441.2
4°	245813.1	242960.0	239859.5	242570.3	243339.5	241140.3	243302.2	245999.5	242793.9	242936.3
5°	215282.6	213174.9	209505.2	211179.1	209271.4	209966.0	213205.4	214316.9	212080.4	209264.6
6°	183891.4	182393.6	177805.6	180218.2	179540.5	179147.4	183237.4	179848.9	181068.7	179364.3
7°	152961.0	150162.1	147908.7	150219.7	150368.8	149186.2	154496.0	153879.3	151659.8	151144.8
8°	126730.5	123938.4	122030.6	123752.0	124877.0	123020.1	125517.4	127157.4	125422.5	125578.4
9°	102214.6	101723.2	99070.0	101320.0	102543.3	100554.2	103319.2	103912.2	102289.1	103078.7
10°	83926.8	83354.1	81236.3	82147.8	84174.1	81802.2	84455.4	84648.5	83354.1	83723.5
12.5°	51864.6	51634.2	51576.6	51708.8	51681.6	52101.8	52779.5	52006.9	51905.3	50627.8
15°	33522.6	33864.8	33512.4	34190.1	34288.4	34684.8	34271.4	33648.0	32458.6	31869.0
17.5°	20920.7	21357.8	21961.0	22953.8	23946.6	24061.9	23512.9	22781.0	22204.9	21574.7
20°	12036.0	12249.5	12158.0	13347.4	15915.9	16613.9	15905.7	15136.5	14441.9	13804.8
22.5°	7478.5	7400.5	7542.8	7942.7	8779.6	10938.1	10358.7	9589.5	9084.6	8559.4
25°	4584.7	4669.4	4615.2	4835.4	5211.5	6126.4	6258.6	5926.5	5669.0	5397.9
27.5°	2951.4	2951.4	2975.1	3097.1	3354.6	3324.1	4028.9	3771.4	3632.5	3500.3
30°	2050.1	2056.8	2056.8	2128.0	2185.6	2083.9	2266.9	2599.0	2534.6	2433.0
32.5°	1521.4	1541.8	1558.7	1596.0	1548.6	1440.1	1484.2	1870.5	1833.2	1795.9
35°	1158.9	1175.8	1216.5	1236.8	1169.0	1101.3	1060.6	1375.7	1392.7	1382.5
37.5°	843.7	853.9	928.5	1006.4	928.5	867.5	843.7	1057.2	1138.5	1128.4
40°	647.2	650.6	664.1	752.3	752.3	704.8	711.6	789.5	931.8	931.8
42.5°	555.7	555.7	569.3	555.7	559.1	609.9	626.9	637.0	789.5	789.5
45°	481.2	481.2	487.9	454.1	420.2	525.2	538.8	542.2	664.1	681.1
47.5°	403.2	403.2	416.8	372.7	355.8	416.8	454.1	464.2	572.7	586.2
50°	298.2	301.6	342.2	305.0	315.1	321.9	393.1	399.8	484.6	515.1
52.5°	199.9	199.9	206.7	237.2	274.5	264.3	318.5	342.2	386.3	427.0
55°	162.6	162.6	159.3	152.5	203.3	220.3	233.8	284.6	315.1	366.0
57.5°	111.8	118.6	108.4	125.4	132.2	166.0	176.2	223.6	240.6	308.4
60°	13.6	16.9	23.7	91.5	88.1	111.8	132.2	176.2	196.5	237.2
62.5°	3.4	3.4	6.8	16.9	61.0	74.5	105.0	122.0	142.3	183.0
65°	0.0	0.0	3.4	6.8	13.6	40.7	54.2	71.2	101.7	128.8
67.5°	0.0	0.0	3.4	6.8	6.8	16.9	27.1	44.1	54.2	94.9
70°	0.0	0.0	3.4	6.8	6.8	13.6	16.9	20.3	37.3	50.8
72.5°	0.0	0.0	3.4	6.8	10.2	13.6	16.9	16.9	16.9	33.9
75°	0.0	0.0	3.4	6.8	10.2	13.6	16.9	16.9	13.6	13.6
77.5°	0.0	0.0	3.4	6.8	13.6	16.9	20.3	16.9	10.2	10.2
80°	0.0	0.0	3.4	10.2	16.9	23.7	27.1	20.3	10.2	6.8
82.5°	0.0	0.0	6.8	13.6	20.3	27.1	37.3	30.5	13.6	6.8
85°	0.0	0.0	3.4	10.2	20.3	27.1	54.2	37.3	16.9	3.4
87.5°	0.0	0.0	0.0	3.4	3.4	6.8	20.3	13.6	6.8	3.4
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°
309036.0	0°	309036.0	309036.0	309036.0	309036.0	309036.0	309036.0	309036.0	309036.0
304082.0	1°	306206.6	306420.1	305722.1	306803.0	306423.5	304200.6	303465.3	302594.5
292029.1	2°	291134.5	292222.2	292276.4	293476.0	293459.0	290866.8	290063.7	291544.5
270850.9	3°	270030.8	271298.1	270156.2	272287.6	271647.2	268502.6	267686.0	269366.7
244061.2	4°	243332.7	243092.1	242699.1	241486.0	242980.3	240835.4	239219.1	241499.5
212998.7	5°	212571.8	212036.4	211270.6	210911.4	212022.8	210650.5	207326.3	210657.3
182447.9	6°	182671.5	180367.3	180255.5	180055.6	180167.4	176324.8	176555.2	179035.6
149372.6	7°	150951.6	151375.2	150511.1	151897.0	150839.8	148237.4	147234.4	149846.9
126262.9	8°	125381.9	124846.5	124185.7	126256.1	124422.9	122715.1	121546.1	123609.7
103207.4	9°	103014.3	102089.2	101418.3	101313.2	101597.9	98392.3	99042.9	100605.0
83926.8	10°	83957.3	82439.2	82808.6	82906.8	82595.1	80494.2	80514.5	81053.3
51474.9	12.5°	51292.0	50546.5	50732.9	50834.5	51468.2	50729.5	49685.8	48933.6
32455.2	15°	32238.3	31703.0	32797.4	33532.8	33383.7	32726.3	32235.0	31553.9
21574.7	17.5°	21374.8	22076.2	22079.6	22750.5	22818.3	22160.9	21781.4	21168.1
14031.8	20°	13981.0	14272.4	14879.0	15353.4	15627.8	15126.3	14672.3	14252.1
8749.1	22.5°	8749.1	9257.4	9636.9	10253.6	10504.4	10138.4	9816.5	9474.3
5462.3	25°	5370.8	5733.4	6048.5	6583.9	6926.1	6749.9	6455.1	6214.5
3527.4	27.5°	3581.7	3734.1	3890.0	4259.4	4615.2	4516.9	4398.3	4252.6
2487.2	30°	2524.4	2538.0	2704.0	2910.7	3147.9	3208.9	3154.7	3080.2
1826.4	32.5°	1860.3	1914.5	1992.4	2121.2	2280.5	2426.2	2399.1	2365.2
1396.1	35°	1436.7	1518.1	1582.4	1680.7	1765.4	1904.3	1928.1	1917.9
1148.7	37.5°	1172.4	1243.6	1308.0	1365.6	1436.7	1531.6	1606.2	1609.5
948.8	40°	972.5	1036.9	1121.6	1165.6	1216.5	1287.6	1379.1	1385.9
803.1	42.5°	820.0	881.0	965.7	1019.9	1057.2	1125.0	1216.5	1230.0
687.9	45°	704.8	742.1	830.2	894.6	931.8	975.9	1074.2	1087.7
593.0	47.5°	613.3	650.6	704.8	796.3	830.2	870.8	948.8	972.5
525.2	50°	538.8	576.0	623.5	704.8	755.6	789.5	853.9	887.8
457.4	52.5°	477.8	515.1	565.9	630.3	687.9	718.4	779.4	823.4
372.7	55°	399.8	464.2	501.5	559.1	637.0	664.1	711.6	769.2
325.3	57.5°	349.0	403.2	457.4	504.9	582.8	616.7	664.1	718.4
257.5	60°	294.8	345.6	410.0	450.7	525.2	569.3	620.1	670.9
196.5	62.5°	233.8	301.6	345.6	403.2	474.4	532.0	572.7	623.5
152.5	65°	172.8	247.4	298.2	359.2	427.0	487.9	521.8	576.0
108.4	67.5°	125.4	193.1	254.1	311.7	376.1	437.1	471.0	518.4
67.8	70°	98.3	142.3	210.1	260.9	328.7	379.5	416.8	447.3
44.1	72.5°	57.6	108.4	169.4	227.0	288.0	321.9	349.0	376.1
20.3	75°	37.3	84.7	138.9	189.8	233.8	264.3	288.0	311.7
10.2	77.5°	23.7	61.0	111.8	159.3	179.6	216.9	237.2	250.8
6.8	80°	13.6	47.4	98.3	128.8	145.7	169.4	189.8	206.7
6.8	82.5°	10.2	40.7	81.3	108.4	108.4	135.5	145.7	145.7
3.4	85°	6.8	33.9	64.4	101.7	81.3	101.7	94.9	94.9
3.4	87.5°	6.8	23.7	30.5	44.1	37.3	44.1	44.1	50.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
309036.0
299145.0
285272.4
261901.8
233245.1
201881.0
171845.2
142741.2
117717.0
95725.6
77386.9
48476.1
31204.8
21015.6
14106.4
9291.3
6075.6
4167.9
3029.3
2338.1
1884.0
1585.8
1375.7
1219.9
1084.3
975.9
891.2
823.4
772.6
721.8
684.5
647.2
586.2
521.8
457.4
382.9
311.7
244.0
186.4
135.5
91.5
50.8
0.0

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