

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: P637074

Luminaire Tested: **IFLD-M-SA4D-730-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637074
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-730-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28329.9 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

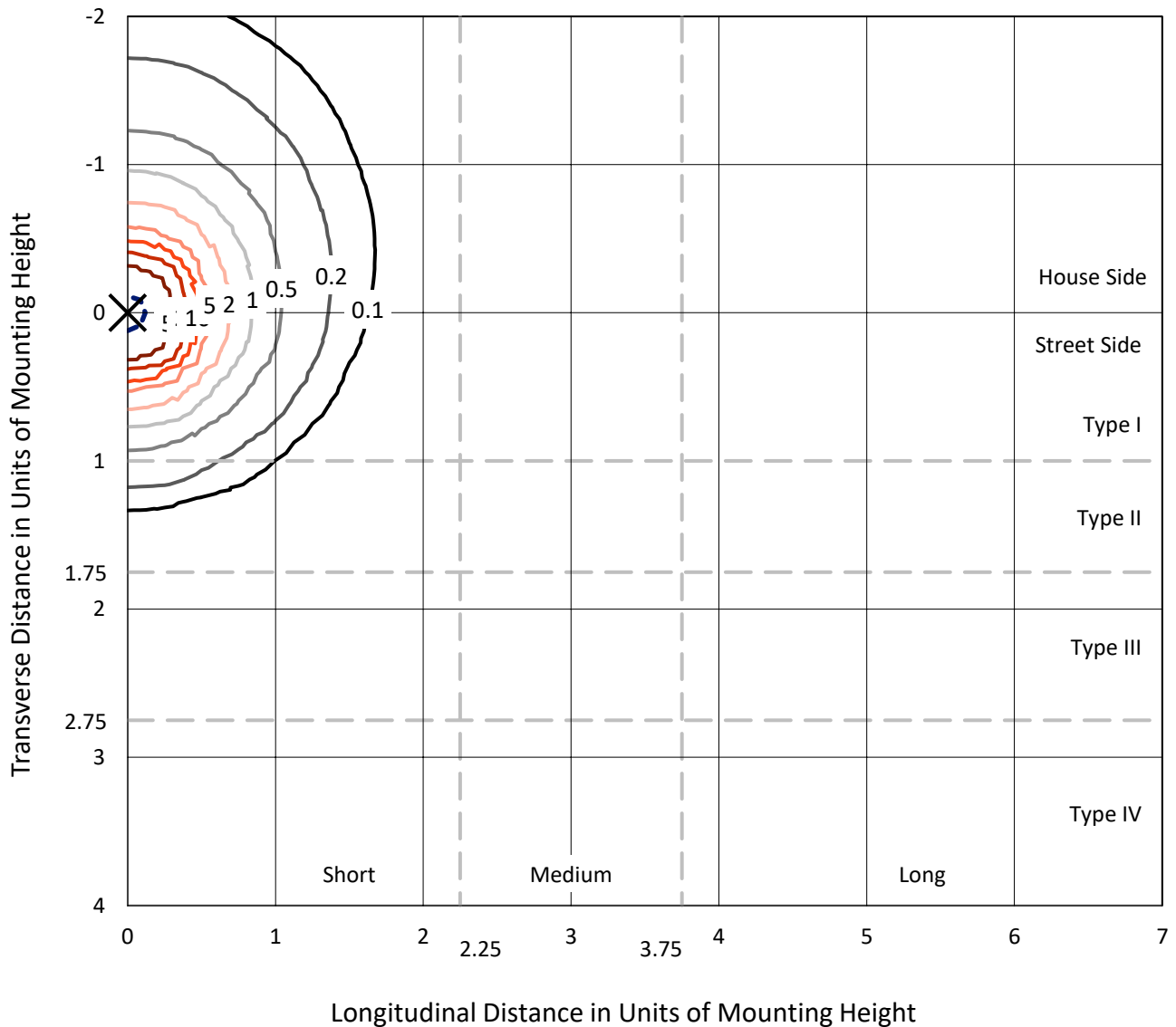
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

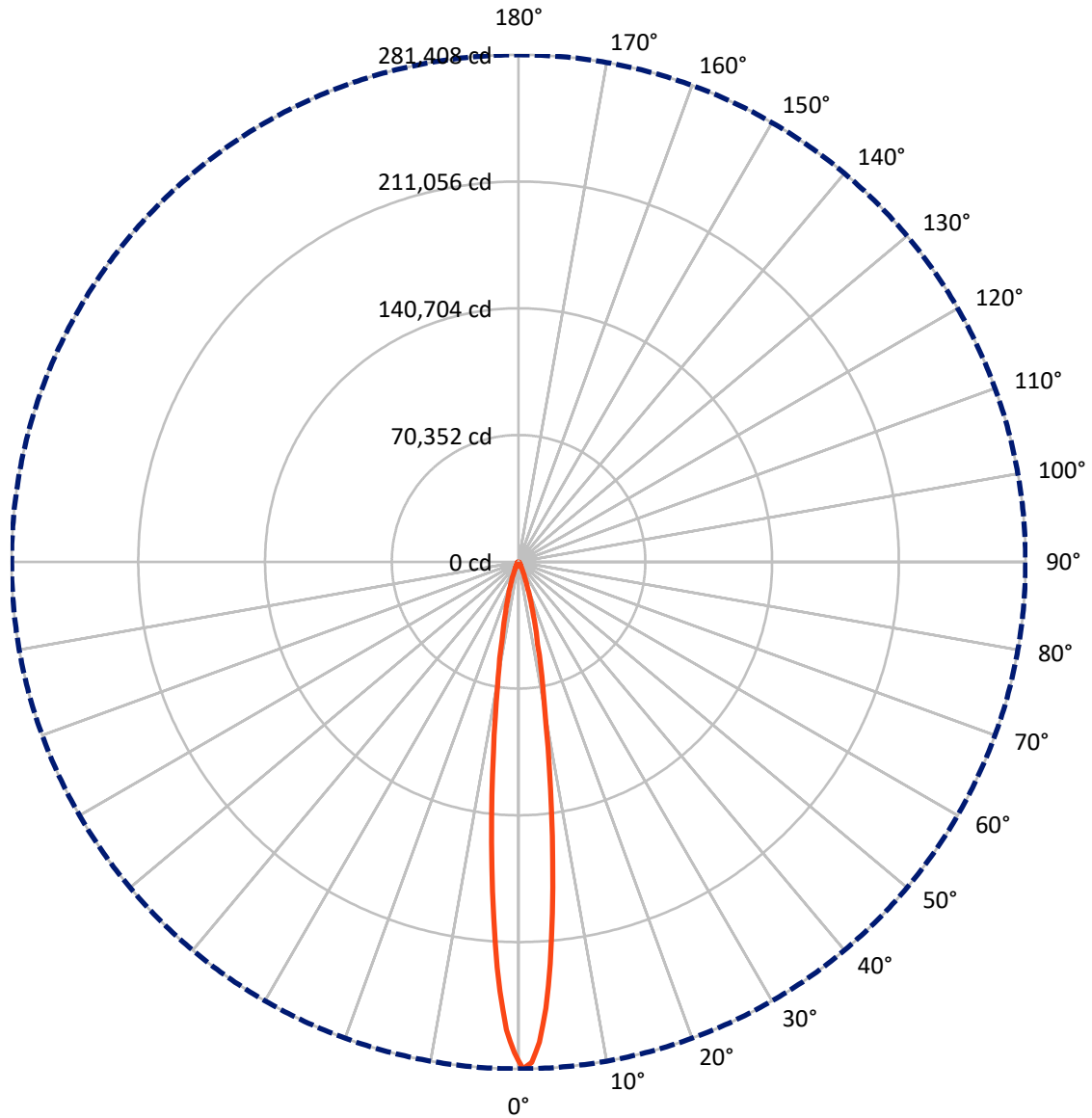
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 703.5 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	14510.1	0.0	14510.1
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	13819.9	0.0	13819.9
	% Fixture	48.8	0.0	48.8
Total	Lumens	28329.9	0.0	28329.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14301.8	50.5
10°-20°	9156.0	32.3
20°-30°	2752.1	9.7
30°-40°	896.1	3.2
40°-50°	521.4	1.8
50°-60°	346.3	1.2
60°-70°	208.5	0.7
70°-80°	107.1	0.4
80°-90°	40.7	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°	28329.9	100.0
0°-180°	28329.9	100.0

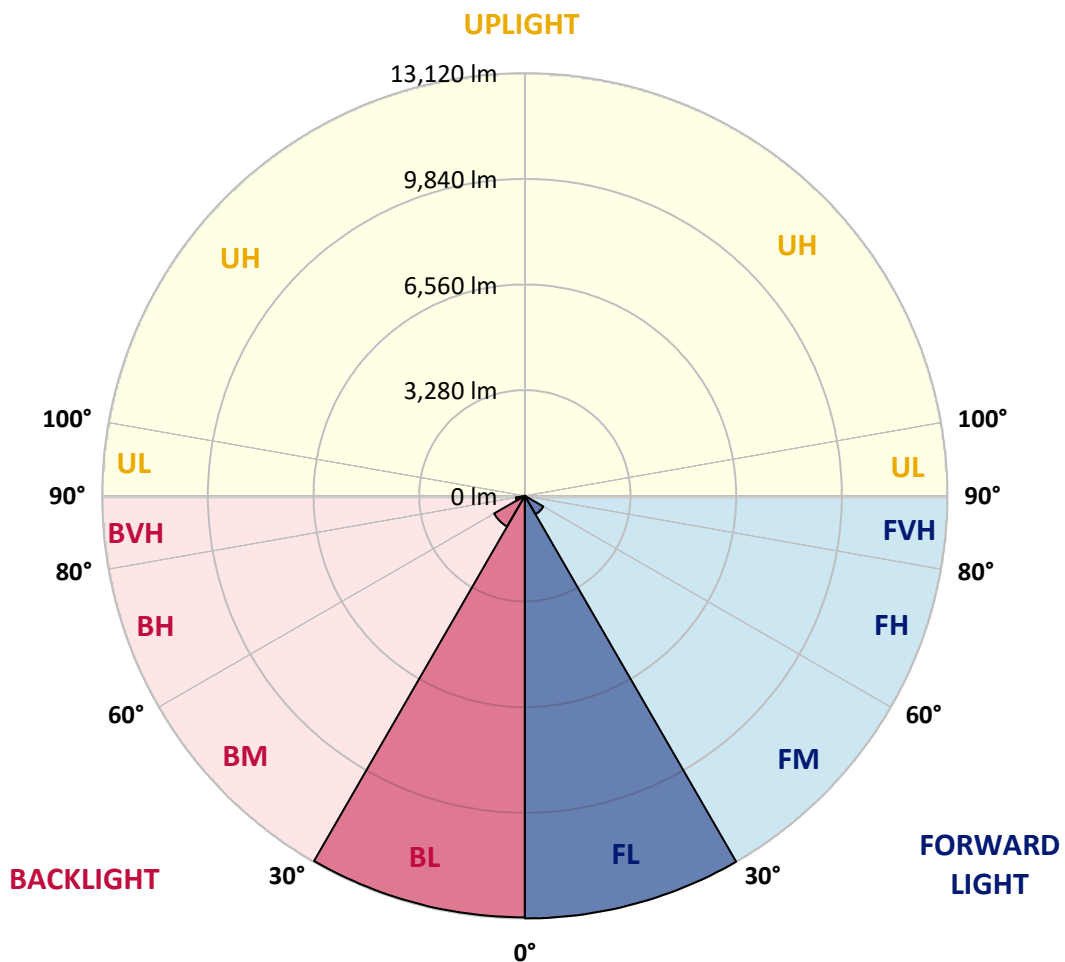


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	13120.5	46.3			
FM (30°-60°)	662.1	2.3			
FH (60°-80°)	31.2	0.1			G0/660
FVH (80°-90°)	6.1	0.0			G0/10
BL (0°-30°)	13089.4	46.2	B5		
BM (30°-60°)	1101.7	3.9	B2/2500		
BH (60°-80°)	284.4	1.0	B1/500		G0/660
BVH (80°-90°)	34.6	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°	281408.2	281408.2	281408.2	281408.2	281408.2	281408.2	281408.2	281408.2	281408.2	281408.2
1°	278038.8	277190.2	274999.5	276557.7	277927.7	277529.6	277501.9	277353.8	277147.0	278770.0
2°	266924.5	266375.3	263135.4	264471.5	266418.5	264999.1	265887.7	265107.1	265122.5	267060.3
3°	248188.8	248488.1	243319.8	245748.1	248454.2	245013.8	246081.4	248087.0	245985.7	245353.2
4°	223837.4	221239.4	218416.0	220884.5	221584.9	219582.4	221551.0	224007.1	221088.2	221217.8
5°	196036.3	194117.1	190775.4	192299.7	190562.5	191195.0	194144.9	195156.9	193120.4	190556.3
6°	167451.5	166087.7	161909.8	164106.7	163489.6	163131.7	166856.0	163770.4	164881.2	163329.1
7°	139286.3	136737.6	134685.7	136790.0	136925.8	135848.9	140684.1	140122.5	138101.4	137632.4
8°	115400.8	112858.3	111121.1	112688.6	113713.0	112022.1	114296.1	115789.6	114209.8	114351.7
9°	93076.6	92629.2	90213.2	92262.0	93375.9	91564.7	94082.5	94622.5	93144.5	93863.4
10°	76423.7	75902.2	73973.8	74803.8	76649.0	74489.0	76905.1	77080.9	75902.2	76238.6
12.5°	47227.9	47018.1	46965.7	47086.0	47061.3	47443.9	48061.0	47357.5	47265.0	46101.7
15°	30525.7	30837.3	30516.4	31133.5	31223.0	31584.0	31207.6	30639.8	29556.8	29019.9
17.5°	19050.4	19448.4	19997.7	20901.7	21805.8	21910.7	21410.9	20744.4	20219.8	19645.9
20°	10960.0	11154.4	11071.1	12154.1	14493.0	15128.6	14483.7	13783.3	13150.8	12570.7
22.5°	6809.9	6738.9	6868.5	7232.6	7994.7	9960.3	9432.6	8732.2	8272.4	7794.2
25°	4174.8	4251.9	4202.6	4403.1	4745.6	5578.7	5699.1	5396.7	5162.2	4915.3
27.5°	2687.5	2687.5	2709.1	2820.2	3054.7	3027.0	3668.8	3434.3	3307.7	3187.4
30°	1866.8	1872.9	1872.9	1937.7	1990.2	1897.6	2064.3	2366.6	2308.0	2215.4
32.5°	1385.4	1403.9	1419.4	1453.3	1410.1	1311.4	1351.5	1703.2	1669.3	1635.4
35°	1055.3	1070.7	1107.7	1126.2	1064.5	1002.8	965.8	1252.7	1268.2	1258.9
37.5°	768.3	777.6	845.4	916.4	845.4	789.9	768.3	962.7	1036.8	1027.5
40°	589.3	592.4	604.8	685.0	685.0	641.8	648.0	718.9	848.5	848.5
42.5°	506.0	506.0	518.4	506.0	509.1	555.4	570.8	580.1	718.9	718.9
45°	438.2	438.2	444.3	413.5	382.6	478.3	490.6	493.7	604.8	620.2
47.5°	367.2	367.2	379.5	339.4	324.0	379.5	413.5	422.7	521.5	533.8
50°	271.5	274.6	311.6	277.7	287.0	293.1	357.9	364.1	441.2	469.0
52.5°	182.0	182.0	188.2	216.0	249.9	240.7	290.0	311.6	351.8	388.8
55°	148.1	148.1	145.0	138.9	185.1	200.6	212.9	259.2	287.0	333.2
57.5°	101.8	108.0	98.7	114.2	120.3	151.2	160.5	203.6	219.1	280.8
60°	12.3	15.4	21.6	83.3	80.2	101.8	120.3	160.5	179.0	216.0
62.5°	3.1	3.1	6.2	15.4	55.5	67.9	95.7	111.1	129.6	166.6
65°	0.0	0.0	3.1	6.2	12.3	37.0	49.4	64.8	92.6	117.3
67.5°	0.0	0.0	3.1	6.2	6.2	15.4	24.7	40.1	49.4	86.4
70°	0.0	0.0	3.1	6.2	6.2	12.3	15.4	18.5	33.9	46.3
72.5°	0.0	0.0	3.1	6.2	9.3	12.3	15.4	15.4	15.4	30.9
75°	0.0	0.0	3.1	6.2	9.3	12.3	15.4	15.4	12.3	12.3
77.5°	0.0	0.0	3.1	6.2	12.3	15.4	18.5	15.4	9.3	9.3
80°	0.0	0.0	3.1	9.3	15.4	21.6	24.7	18.5	9.3	6.2
82.5°	0.0	0.0	6.2	12.3	18.5	24.7	33.9	27.8	12.3	6.2
85°	0.0	0.0	3.1	9.3	18.5	24.7	49.4	33.9	15.4	3.1
87.5°	0.0	0.0	0.0	3.1	3.1	6.2	18.5	12.3	6.2	3.1
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°
281408.2	0°	281408.2	281408.2	281408.2	281408.2	281408.2	281408.2	281408.2	281408.2
276897.1	1°	278831.8	279026.1	278390.5	279374.8	279029.2	277005.1	276335.5	275542.5
265921.7	2°	265107.1	266097.6	266146.9	267239.2	267223.8	264863.3	264132.0	265480.4
246636.8	3°	245890.1	247044.1	246004.2	247945.1	247361.9	244498.5	243754.9	245285.3
222242.2	4°	221578.8	221359.7	221001.8	219897.1	221257.9	219304.7	217832.9	219909.5
193956.6	5°	193567.9	193080.3	192383.0	192055.9	193068.0	191818.3	188791.4	191824.5
166137.0	6°	166340.7	164242.5	164140.6	163958.6	164060.4	160561.4	160771.2	163029.8
136018.7	7°	137456.5	137842.2	137055.4	138317.4	137354.7	134985.0	134071.6	136450.6
114975.0	8°	114172.7	113685.2	113083.5	114968.8	113299.5	111744.4	110679.8	112559.0
93980.7	9°	93804.8	92962.4	92351.5	92255.8	92515.0	89596.1	90188.5	91610.9
76423.7	10°	76451.5	75069.1	75405.5	75494.9	75211.1	73298.0	73316.5	73807.1
46873.1	12.5°	46706.5	46027.6	46197.3	46289.9	46866.9	46194.3	45243.9	44558.9
29553.7	15°	29356.2	28868.7	29865.4	30534.9	30399.2	29800.6	29353.1	28732.9
19645.9	17.5°	19463.9	20102.6	20105.7	20716.6	20778.3	20179.7	19834.1	19275.6
12777.4	20°	12731.1	12996.5	13548.8	13980.8	14230.7	13774.0	13360.6	12978.0
7967.0	22.5°	7967.0	8429.8	8775.4	9337.0	9565.3	9232.1	8938.9	8627.3
4974.0	25°	4890.6	5220.8	5507.8	5995.3	6306.9	6146.5	5878.0	5659.0
3212.1	27.5°	3261.5	3400.3	3542.2	3878.6	4202.6	4113.1	4005.1	3872.4
2264.8	30°	2298.8	2311.1	2462.3	2650.5	2866.5	2922.0	2872.7	2804.8
1663.1	32.5°	1694.0	1743.4	1814.3	1931.6	2076.6	2209.3	2184.6	2153.7
1271.3	35°	1308.3	1382.3	1441.0	1530.4	1607.6	1734.1	1755.7	1746.4
1046.0	37.5°	1067.6	1132.4	1191.0	1243.5	1308.3	1394.7	1462.6	1465.7
864.0	40°	885.6	944.2	1021.3	1061.4	1107.7	1172.5	1255.8	1262.0
731.3	42.5°	746.7	802.3	879.4	928.8	962.7	1024.4	1107.7	1120.1
626.4	45°	641.8	675.7	756.0	814.6	848.5	888.6	978.1	990.5
540.0	47.5°	558.5	592.4	641.8	725.1	756.0	793.0	864.0	885.6
478.3	50°	490.6	524.5	567.7	641.8	688.1	718.9	777.6	808.4
416.6	52.5°	435.1	469.0	515.3	573.9	626.4	654.1	709.7	749.8
339.4	55°	364.1	422.7	456.7	509.1	580.1	604.8	648.0	700.4
296.2	57.5°	317.8	367.2	416.6	459.8	530.7	561.6	604.8	654.1
234.5	60°	268.4	314.7	373.4	410.4	478.3	518.4	564.7	610.9
179.0	62.5°	212.9	274.6	314.7	367.2	432.0	484.4	521.5	567.7
138.9	65°	157.4	225.2	271.5	327.1	388.8	444.3	475.2	524.5
98.7	67.5°	114.2	175.9	231.4	283.9	342.5	398.0	428.9	472.1
61.7	70°	89.5	129.6	191.3	237.6	299.3	345.6	379.5	407.3
40.1	72.5°	52.5	98.7	154.3	206.7	262.3	293.1	317.8	342.5
18.5	75°	33.9	77.1	126.5	172.8	212.9	240.7	262.3	283.9
9.3	77.5°	21.6	55.5	101.8	145.0	163.5	197.5	216.0	228.3
6.2	80°	12.3	43.2	89.5	117.3	132.7	154.3	172.8	188.2
6.2	82.5°	9.3	37.0	74.1	98.7	98.7	123.4	132.7	132.7
3.1	85°	6.2	30.9	58.6	92.6	74.1	92.6	86.4	86.4
3.1	87.5°	6.2	21.6	27.8	40.1	33.9	40.1	40.1	46.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
281408.2
272401.4
259769.0
238487.8
212393.0
183832.8
156482.2
129980.2
107193.1
87167.7
70468.5
44142.3
28415.1
19136.8
12845.3
8460.7
5532.4
3795.3
2758.5
2129.1
1715.6
1444.1
1252.7
1110.8
987.4
888.6
811.5
749.8
703.5
657.2
623.3
589.3
533.8
475.2
416.6
348.7
283.9
222.2
169.7
123.4
83.3
46.3
0.0

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