

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: P637213

Luminaire Tested: **IFLD-S-SA6C-827-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637213
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-827-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (96) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30376.2 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

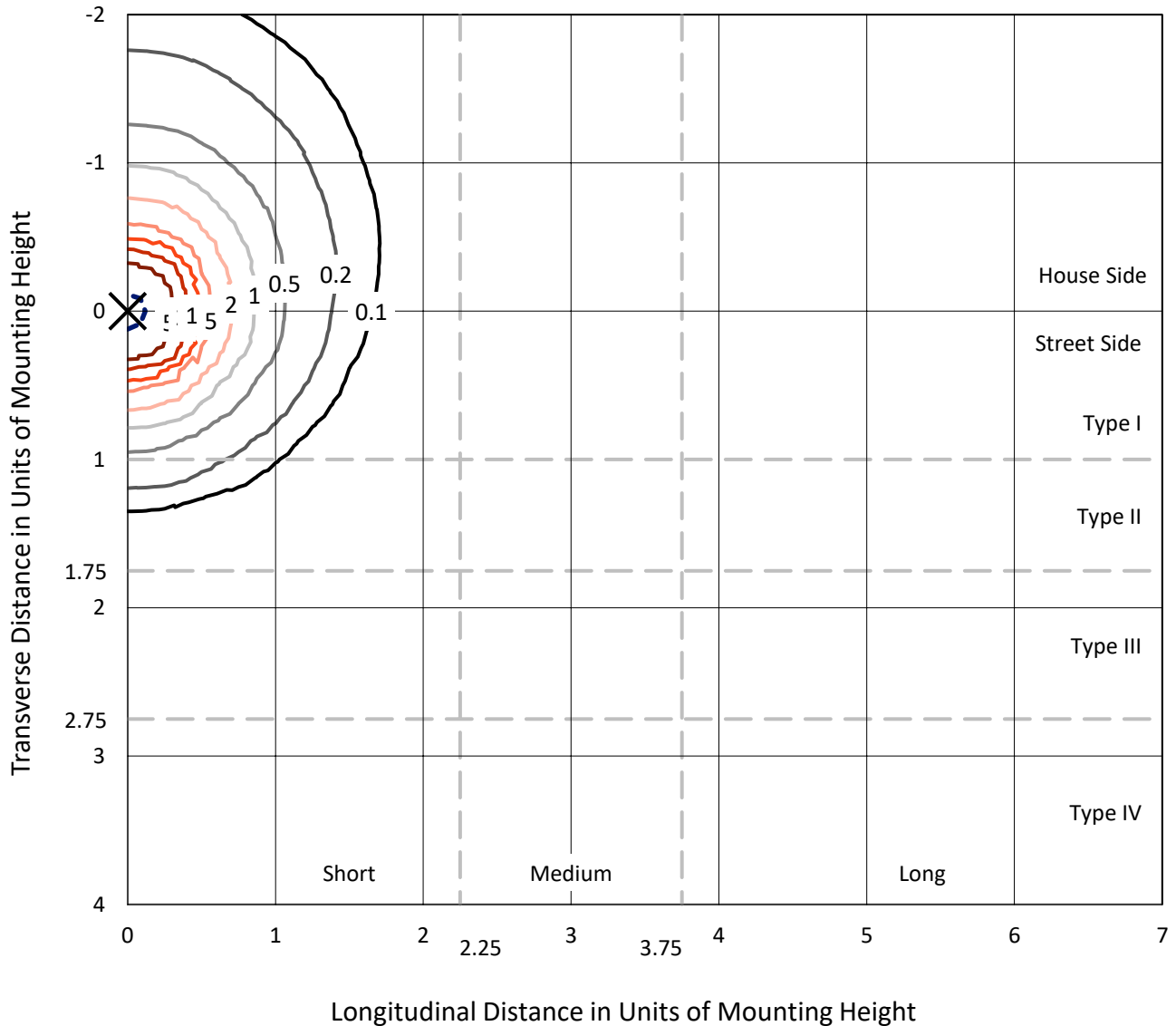
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

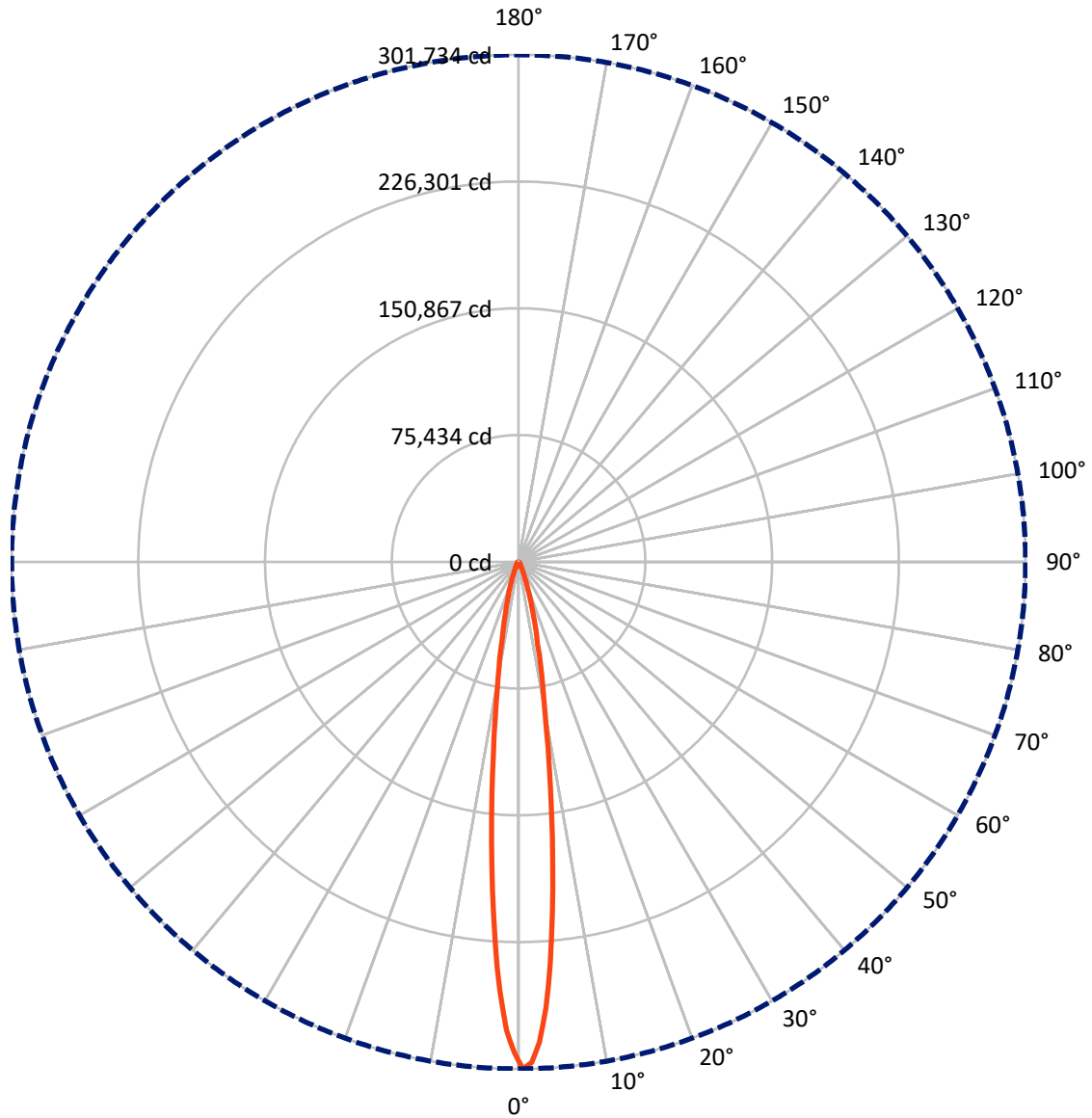
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 754.3 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	15558.1	0.0	15558.1
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	14818.1	0.0	14818.1
	% Fixture	48.8	0.0	48.8
Total	Lumens	30376.2	0.0	30376.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15334.8	50.5
10°-20°	9817.3	32.3
20°-30°	2950.9	9.7
30°-40°	960.8	3.2
40°-50°	559.0	1.8
50°-60°	371.3	1.2
60°-70°	223.5	0.7
70°-80°	114.9	0.4
80°-90°	43.6	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°	30376.2	100.0
0°-180°	30376.2	100.0

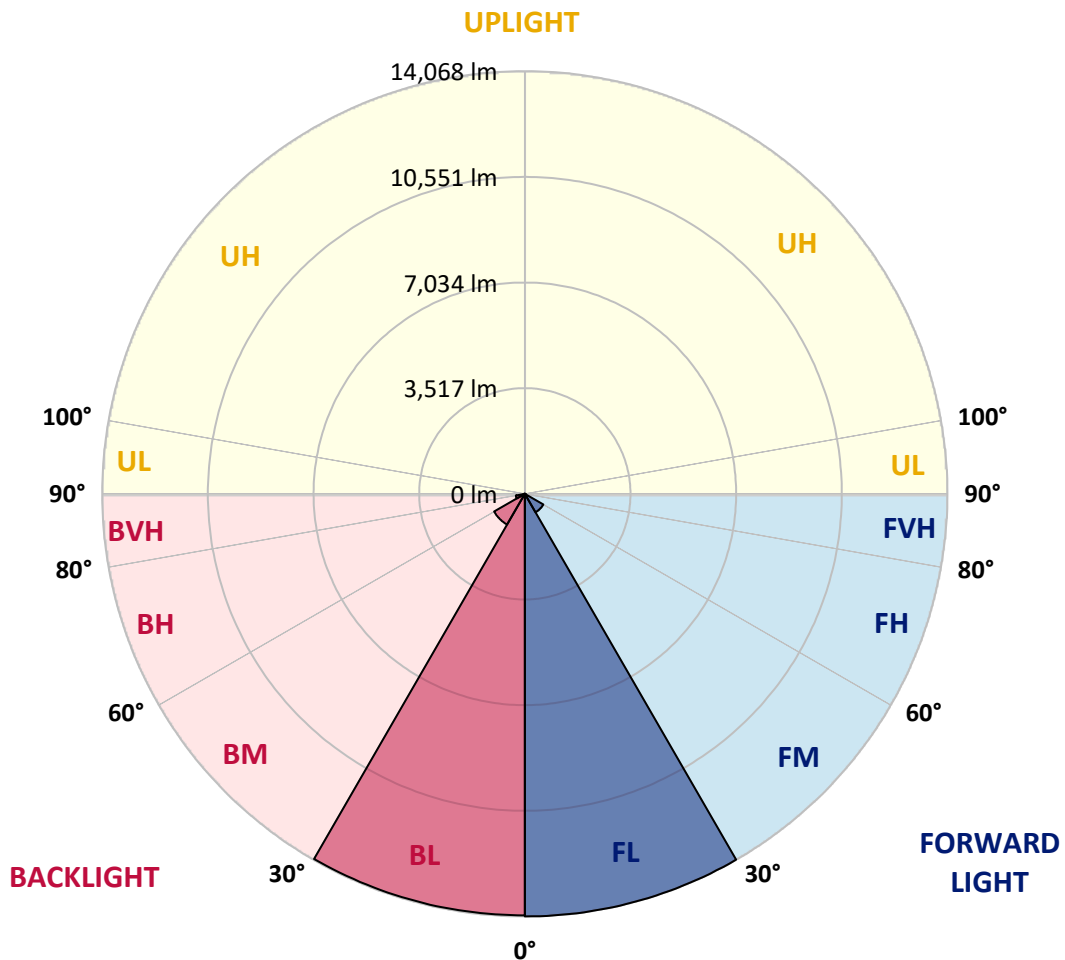


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	14068.2	46.3			
FM (30°-60°)	709.9	2.3			
FH (60°-80°)	33.4	0.1			G0/660
FVH (80°-90°)	6.6	0.0			G0/10
BL (0°-30°)	14034.8	46.2	B5		
BM (30°-60°)	1181.3	3.9	B2/2500		
BH (60°-80°)	305.0	1.0	B1/500		G0/660
BVH (80°-90°)	37.1	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°	301734.0	301734.0	301734.0	301734.0	301734.0	301734.0	301734.0	301734.0	301734.0	301734.0
1°	298121.2	297211.4	294862.4	296533.2	298002.1	297575.3	297545.5	297386.7	297165.1	298905.3
2°	286204.2	285615.3	282141.4	283574.0	285661.6	284139.7	285092.5	284255.5	284272.0	286349.7
3°	266115.3	266436.2	260894.5	263498.3	266399.8	262710.9	263855.6	266006.1	263753.0	263074.8
4°	240005.0	237219.2	234192.0	236838.8	237589.8	235442.6	237553.4	240186.9	237057.1	237196.1
5°	210195.8	208138.0	204554.9	206189.3	204326.6	205004.9	208167.7	209252.9	207069.3	204320.0
6°	179546.3	178084.0	173604.4	175960.0	175298.3	174914.5	178907.8	175599.3	176790.4	175126.2
7°	149346.8	146614.0	144413.9	146670.3	146815.8	145661.2	150845.5	150243.4	148076.3	147573.5
8°	123736.1	121009.9	119147.2	120827.9	121926.3	120113.3	122551.6	124152.9	122459.0	122611.2
9°	99799.4	99319.7	96729.2	98926.0	100120.3	98178.3	100878.0	101457.0	99872.2	100643.1
10°	81943.7	81384.6	79316.8	80206.8	82185.2	79869.3	82459.8	82648.4	81384.6	81745.2
12.5°	50639.2	50414.2	50357.9	50487.0	50460.5	50870.7	51532.4	50778.1	50678.9	49431.6
15°	32730.5	33064.7	32720.6	33382.3	33478.2	33865.3	33461.7	32852.9	31691.7	31116.0
17.5°	20426.4	20853.2	21442.1	22411.4	23380.8	23493.3	22957.3	22242.7	21680.3	21064.9
20°	11751.6	11960.1	11870.7	13032.0	15539.8	16221.3	15529.9	14778.9	14100.6	13478.6
22.5°	7301.8	7225.7	7364.6	7755.0	8572.2	10679.7	10113.9	9362.9	8870.0	8357.1
25°	4476.3	4559.0	4506.1	4721.2	5088.4	5981.7	6110.7	5786.5	5535.0	5270.4
27.5°	2881.7	2881.7	2904.8	3023.9	3275.4	3245.6	3933.7	3682.3	3546.7	3417.6
30°	2001.6	2008.2	2008.2	2077.7	2134.0	2034.7	2213.4	2537.6	2474.7	2375.5
32.5°	1485.5	1505.3	1521.9	1558.3	1512.0	1406.1	1449.1	1826.3	1789.9	1753.5
35°	1131.5	1148.0	1187.7	1207.6	1141.4	1075.2	1035.5	1343.2	1359.8	1349.8
37.5°	823.8	833.7	906.5	982.6	906.5	847.0	823.8	1032.2	1111.6	1101.7
40°	631.9	635.2	648.5	734.5	734.5	688.2	694.8	770.9	909.8	909.8
42.5°	542.6	542.6	555.8	542.6	545.9	595.5	612.1	622.0	770.9	770.9
45°	469.8	469.8	476.4	443.3	410.2	512.8	526.0	529.4	648.5	665.0
47.5°	393.7	393.7	406.9	363.9	347.4	406.9	443.3	453.3	559.1	572.4
50°	291.1	294.5	334.2	297.8	307.7	314.3	383.8	390.4	473.1	502.9
52.5°	195.2	195.2	201.8	231.6	268.0	258.1	311.0	334.2	377.2	416.9
55°	158.8	158.8	155.5	148.9	198.5	215.0	228.3	277.9	307.7	357.3
57.5°	109.2	115.8	105.9	122.4	129.0	162.1	172.0	218.4	234.9	301.1
60°	13.2	16.5	23.2	89.3	86.0	109.2	129.0	172.0	191.9	231.6
62.5°	3.3	3.3	6.6	16.5	59.6	72.8	102.6	119.1	139.0	178.7
65°	0.0	0.0	3.3	6.6	13.2	39.7	52.9	69.5	99.3	125.7
67.5°	0.0	0.0	3.3	6.6	6.6	16.5	26.5	43.0	52.9	92.6
70°	0.0	0.0	3.3	6.6	6.6	13.2	16.5	19.9	36.4	49.6
72.5°	0.0	0.0	3.3	6.6	9.9	13.2	16.5	16.5	16.5	33.1
75°	0.0	0.0	3.3	6.6	9.9	13.2	16.5	16.5	13.2	13.2
77.5°	0.0	0.0	3.3	6.6	13.2	16.5	19.9	16.5	9.9	9.9
80°	0.0	0.0	3.3	9.9	16.5	23.2	26.5	19.9	9.9	6.6
82.5°	0.0	0.0	6.6	13.2	19.9	26.5	36.4	29.8	13.2	6.6
85°	0.0	0.0	3.3	9.9	19.9	26.5	52.9	36.4	16.5	3.3
87.5°	0.0	0.0	0.0	3.3	3.3	6.6	19.9	13.2	6.6	3.3
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°
301734.0	0°	301734.0	301734.0	301734.0	301734.0	301734.0	301734.0	301734.0	301734.0
296897.1	1°	298971.5	299179.9	298498.4	299553.8	299183.2	297012.9	296294.9	295444.7
285128.9	2°	284255.5	285317.5	285370.4	286541.6	286525.1	283994.1	283210.0	284655.8
264451.1	3°	263650.5	264887.8	263772.9	265853.9	265228.6	262158.4	261361.0	263002.0
238294.5	4°	237583.2	237348.3	236964.5	235780.1	237239.1	235144.8	233566.7	235793.3
207965.9	5°	207549.1	207026.3	206278.6	205927.9	207013.1	205673.2	202427.6	205679.8
178136.9	6°	178355.3	176105.5	175996.4	175801.2	175910.3	172158.6	172383.5	174805.3
145843.1	7°	147384.9	147798.4	146954.8	148307.9	147275.7	144734.8	143755.5	146306.3
123279.5	8°	122419.3	121896.6	121251.4	123272.9	121483.0	119815.6	118674.1	120689.0
100768.8	9°	100580.2	99677.0	99021.9	98919.4	99197.3	96067.5	96702.7	98227.9
81943.7	10°	81973.5	80491.3	80851.9	80947.9	80643.5	78592.3	78612.1	79138.1
50258.7	12.5°	50080.0	49352.2	49534.1	49633.4	50252.1	49530.8	48511.8	47777.3
31688.3	15°	31476.6	30953.9	32022.5	32740.4	32594.9	31953.0	31473.3	30808.3
21064.9	17.5°	20869.7	21554.6	21557.9	22212.9	22279.1	21637.3	21266.7	20667.9
13700.3	20°	13650.7	13935.2	14527.4	14990.6	15258.6	14768.9	14325.6	13915.3
8542.4	22.5°	8542.4	9038.7	9409.2	10011.4	10256.2	9898.9	9584.6	9250.4
5333.2	25°	5243.9	5597.9	5905.6	6428.3	6762.5	6590.4	6302.6	6067.7
3444.1	27.5°	3497.0	3645.9	3798.1	4158.7	4506.1	4410.2	4294.4	4152.1
2428.4	30°	2464.8	2478.0	2640.1	2842.0	3073.6	3133.1	3080.2	3007.4
1783.3	32.5°	1816.3	1869.3	1945.4	2071.1	2226.6	2368.9	2342.4	2309.3
1363.1	35°	1402.8	1482.2	1545.0	1641.0	1723.7	1859.3	1882.5	1872.6
1121.6	37.5°	1144.7	1214.2	1277.1	1333.3	1402.8	1495.4	1568.2	1571.5
926.4	40°	949.5	1012.4	1095.1	1138.1	1187.7	1257.2	1346.5	1353.2
784.1	42.5°	800.6	860.2	942.9	995.8	1032.2	1098.4	1187.7	1201.0
671.6	45°	688.2	724.6	810.6	873.4	909.8	952.8	1048.8	1062.0
579.0	47.5°	598.8	635.2	688.2	777.5	810.6	850.3	926.4	949.5
512.8	50°	526.0	562.4	608.8	688.2	737.8	770.9	833.7	866.8
446.6	52.5°	466.5	502.9	552.5	615.4	671.6	701.4	760.9	804.0
363.9	55°	390.4	453.3	489.7	545.9	622.0	648.5	694.8	751.0
317.6	57.5°	340.8	393.7	446.6	493.0	569.1	602.1	648.5	701.4
251.4	60°	287.8	337.5	400.3	440.0	512.8	555.8	605.4	655.1
191.9	62.5°	228.3	294.5	337.5	393.7	463.2	519.4	559.1	608.8
148.9	65°	168.7	241.5	291.1	350.7	416.9	476.4	509.5	562.4
105.9	67.5°	122.4	188.6	248.1	304.4	367.2	426.8	459.9	506.2
66.2	70°	95.9	139.0	205.1	254.8	320.9	370.5	406.9	436.7
43.0	72.5°	56.2	105.9	165.4	221.7	281.2	314.3	340.8	367.2
19.9	75°	36.4	82.7	135.6	185.3	228.3	258.1	281.2	304.4
9.9	77.5°	23.2	59.6	109.2	155.5	175.3	211.7	231.6	244.8
6.6	80°	13.2	46.3	95.9	125.7	142.3	165.4	185.3	201.8
6.6	82.5°	9.9	39.7	79.4	105.9	105.9	132.3	142.3	142.3
3.3	85°	6.6	33.1	62.9	99.3	79.4	99.3	92.6	92.6
3.3	87.5°	6.6	23.2	29.8	43.0	36.4	43.0	43.0	49.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
301734.0
292076.7
278531.9
255713.5
227733.9
197110.9
167784.8
139368.5
114935.6
93463.7
75558.4
47330.7
30467.5
20519.0
13773.1
9071.8
5932.1
4069.4
2957.8
2282.8
1839.5
1548.4
1343.2
1191.0
1058.7
952.8
870.1
804.0
754.3
704.7
668.3
631.9
572.4
509.5
446.6
373.9
304.4
238.2
182.0
132.3
89.3
49.6
0.0

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