

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: P637312

Luminaire Tested: **IFLD-L-SA7E-727-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637312
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-727-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45533.5 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

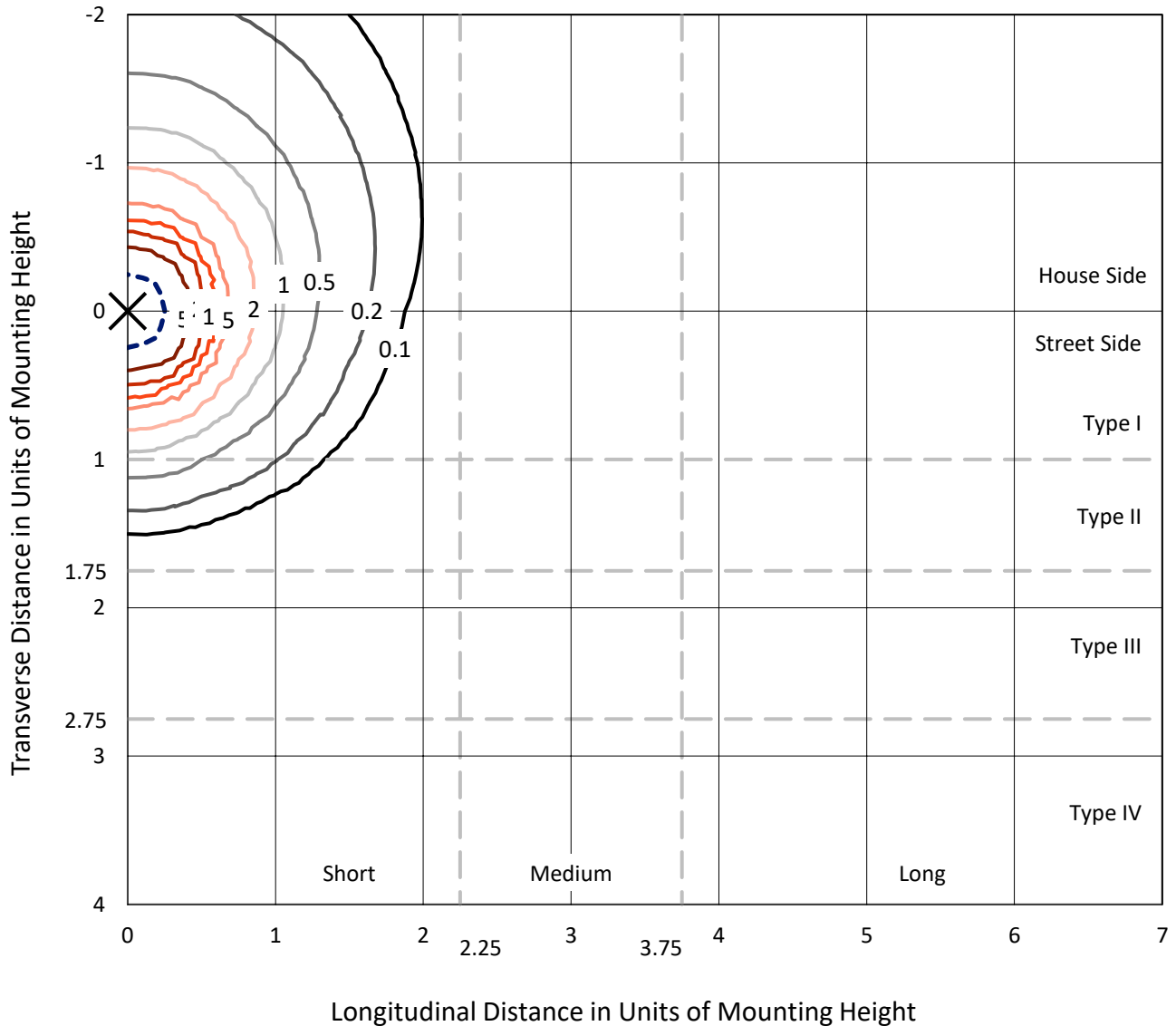
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

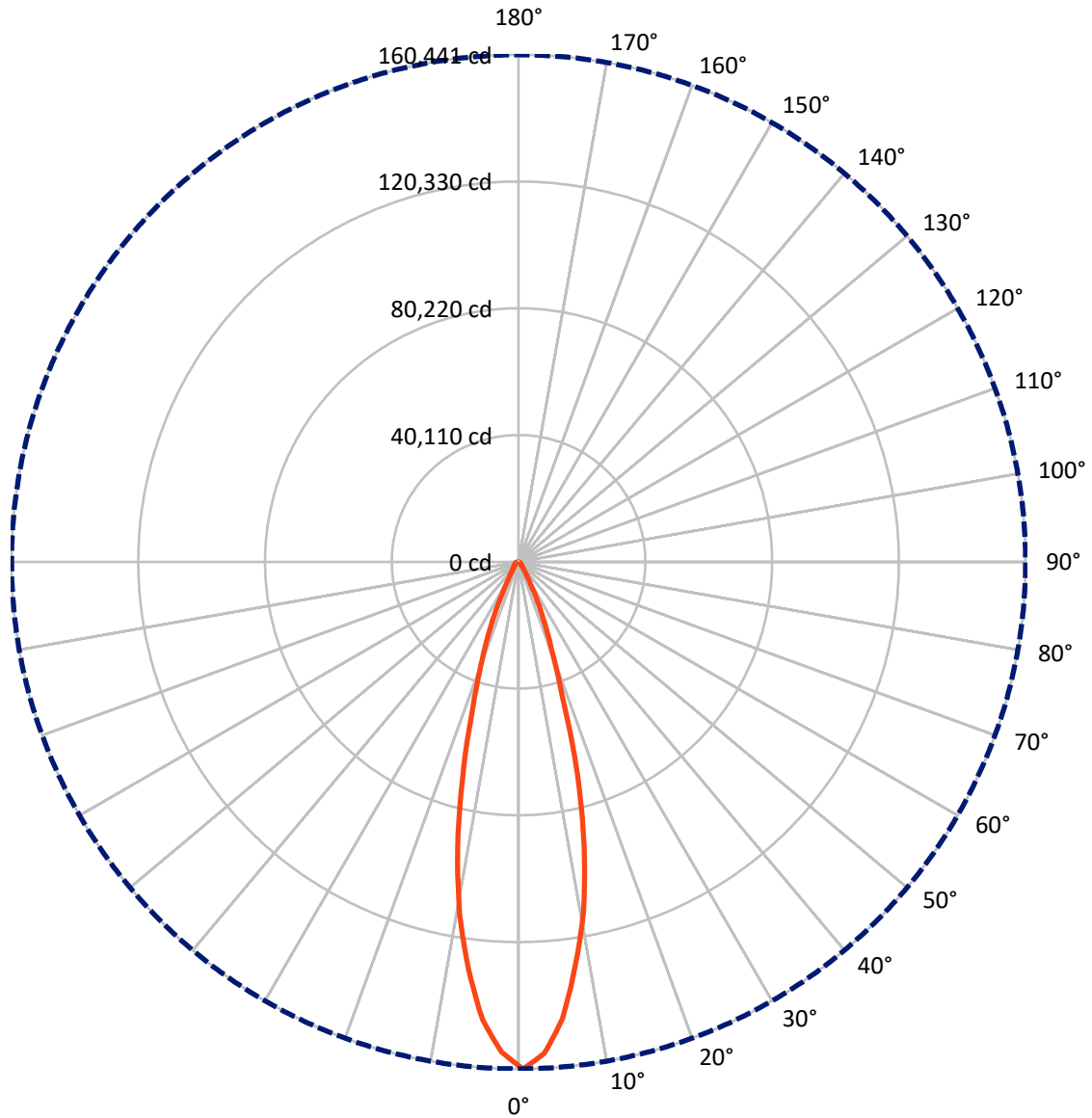
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 401.1 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	24008.4	0.0	24008.4
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	21525.2	0.0	21525.2
	% Fixture	47.3	0.0	47.3
Total	Lumens	45533.5	0.0	45533.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12949.0	28.4
10°-20°	19611.1	43.1
20°-30°	8276.0	18.2
30°-40°	2158.5	4.7
40°-50°	1091.7	2.4
50°-60°	713.6	1.6
60°-70°	427.5	0.9
70°-80°	224.9	0.5
80°-90°	81.2	0.2
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°	45533.5	100.0
0°-180°	45533.5	100.0

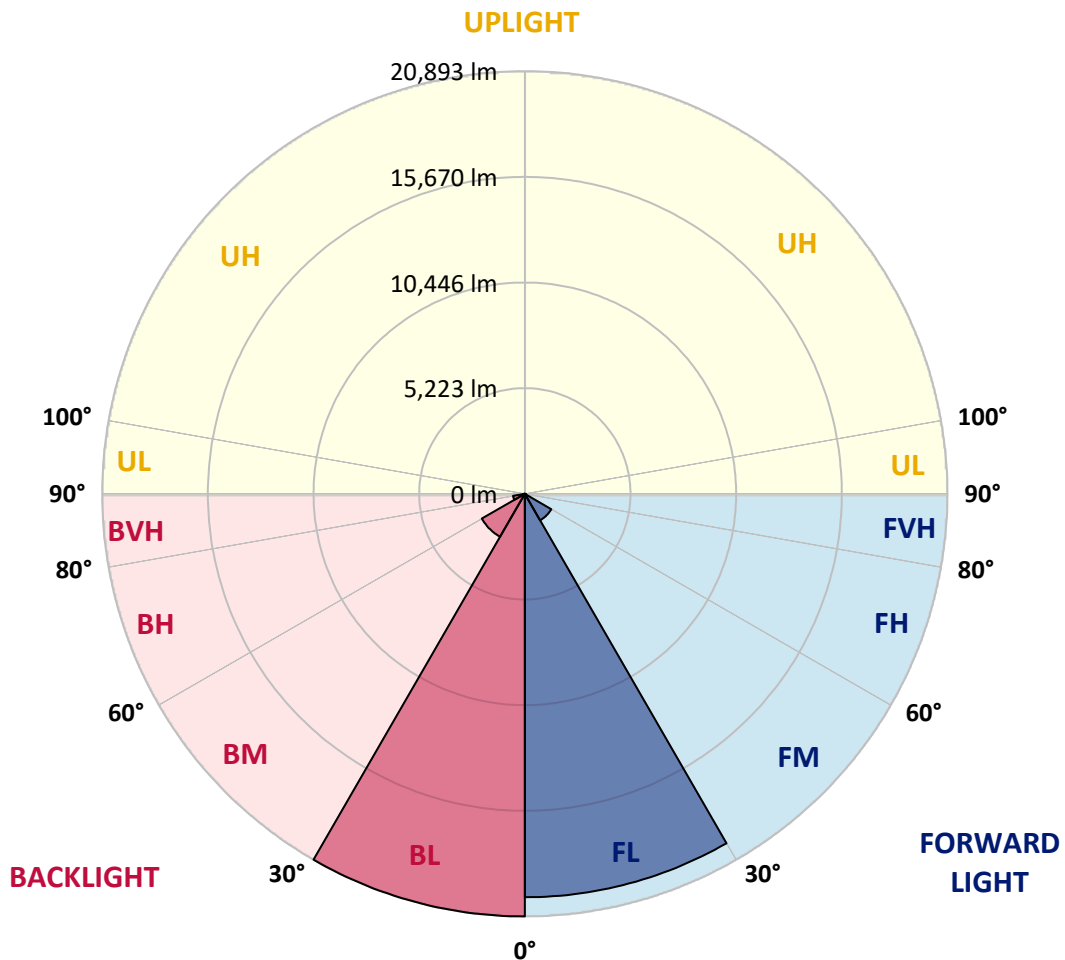


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	19943.4	43.8			
FM (30°-60°)	1510.4	3.3			
FH (60°-80°)	61.6	0.1			G0/660
FVH (80°-90°)	9.9	0.0			G0/10
BL (0°-30°)	20892.7	45.9	B5		
BM (30°-60°)	2453.4	5.4	B2/2500		
BH (60°-80°)	590.9	1.3	B2/1000		G0/660
BVH (80°-90°)	71.4	0.2			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°	160440.6	160440.6	160440.6	160440.6	160440.6	160440.6	160440.6	160440.6	160440.6	160440.6
2.5°	155766.9	155853.8	155531.7	156227.1	155685.1	157137.3	156416.3	157541.3	157162.9	157791.8
5°	145130.8	144987.7	144895.6	145974.6	145662.6	147222.3	146225.1	145897.9	146910.3	146726.2
7.5°	129069.4	129447.8	129233.0	129514.3	129672.8	131452.3	132014.8	131575.0	131590.3	131846.0
10°	112604.0	112046.6	111254.0	111780.7	112895.4	113672.7	113360.8	114005.1	113861.9	114470.4
12.5°	92344.4	92784.1	92339.3	91868.8	93817.0	93602.3	94144.3	94497.1	93612.5	95581.2
15°	69558.7	69788.8	70330.8	70295.0	71793.3	72095.0	72023.4	72396.7	71706.4	72033.6
17.5°	44686.7	45464.0	46921.3	49386.0	52157.5	52479.7	52397.8	52091.0	51758.7	51390.5
20°	30016.1	29934.3	30461.0	31182.0	36919.3	38438.0	38392.0	37430.7	36039.8	35773.9
22.5°	21026.6	21180.0	21108.5	21824.3	23010.7	27198.6	26682.1	25705.5	25250.4	24953.8
25°	13832.0	13775.7	14133.7	14348.4	15366.0	15877.4	17687.5	17324.5	16623.9	16700.6
27.5°	8432.1	8503.7	8636.7	8820.8	9541.8	9378.1	10411.0	10549.1	10324.1	10083.8
30°	5174.8	5226.0	5333.4	5466.3	5716.9	5537.9	5824.3	6320.3	6238.4	6069.7
32.5°	3513.0	3518.1	3594.8	3645.9	3615.2	3446.5	3538.5	4009.0	4019.2	4003.9
35°	2526.1	2526.1	2597.6	2638.6	2551.6	2413.6	2428.9	2720.4	2848.2	2873.8
37.5°	1743.7	1748.8	1871.5	1994.3	1897.1	1861.3	1799.9	1994.3	2198.8	2229.5
40°	1324.4	1319.3	1380.6	1472.7	1482.9	1416.4	1436.9	1559.6	1769.3	1794.8
42.5°	1073.8	1078.9	1109.6	1099.4	1104.5	1191.4	1222.1	1278.4	1472.7	1518.7
45°	905.1	910.2	925.5	874.4	854.0	986.9	1027.8	1058.5	1222.1	1278.4
47.5°	746.6	756.8	772.1	715.9	705.7	792.6	864.2	894.9	1038.0	1099.4
50°	536.9	547.1	603.4	572.7	603.4	623.8	721.0	767.0	864.2	946.0
52.5°	388.6	398.9	414.2	419.3	496.0	506.2	577.8	649.4	695.4	787.5
55°	306.8	317.0	306.8	296.6	363.1	419.3	444.9	521.6	557.4	664.8
57.5°	173.9	184.1	199.4	230.1	240.3	322.1	347.7	414.2	444.9	547.1
60°	30.7	35.8	56.2	138.1	168.7	204.5	260.8	317.0	357.9	429.5
62.5°	5.1	5.1	10.2	30.7	97.2	143.2	189.2	225.0	260.8	327.3
65°	0.0	0.0	5.1	10.2	25.6	81.8	102.3	133.0	179.0	235.2
67.5°	0.0	0.0	5.1	10.2	15.3	30.7	46.0	81.8	102.3	158.5
70°	0.0	0.0	5.1	10.2	15.3	20.5	25.6	35.8	61.4	97.2
72.5°	0.0	0.0	5.1	10.2	15.3	20.5	25.6	30.7	30.7	61.4
75°	0.0	0.0	5.1	10.2	15.3	25.6	30.7	30.7	25.6	25.6
77.5°	0.0	0.0	5.1	10.2	20.5	30.7	35.8	30.7	20.5	20.5
80°	0.0	0.0	10.2	15.3	25.6	35.8	46.0	35.8	20.5	10.2
82.5°	0.0	0.0	10.2	20.5	25.6	40.9	56.2	46.0	20.5	10.2
85°	0.0	0.0	5.1	15.3	30.7	40.9	56.2	40.9	20.5	5.1
87.5°	0.0	0.0	5.1	5.1	10.2	15.3	30.7	25.6	10.2	5.1
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°
160440.6	0°	160440.6	160440.6	160440.6	160440.6	160440.6	160440.6	160440.6	160440.6	160440.6
156600.4	2.5°	157500.4	158318.5	158487.3	158262.3	158589.5	158001.5	157551.5	156385.6	155685.1
146670.0	5°	147616.0	147493.3	148347.2	148628.5	148592.7	148142.7	147513.7	146808.1	146122.9
131350.0	7.5°	132168.2	132326.7	133103.9	133599.9	133349.4	132786.9	132352.2	131820.4	131360.2
114690.3	10°	115738.5	114649.4	115615.8	115615.8	116285.7	114695.4	114843.7	113504.0	113565.3
95545.4	12.5°	95872.7	96266.4	96424.9	96880.0	96097.7	95253.9	94221.0	94016.5	93377.3
71409.8	15°	72437.6	73562.5	72596.1	74247.8	73450.1	72570.5	72412.0	70826.8	71328.0
51794.5	17.5°	51538.8	52781.4	53170.0	54116.0	53389.9	52868.3	52208.6	51728.0	51692.2
36259.7	20°	36546.1	37793.7	38080.1	39215.3	39133.5	38969.8	38412.5	37804.0	37144.3
24682.8	22.5°	25056.1	26073.6	27024.8	28553.7	28528.1	28047.4	27991.2	27132.1	27147.5
16675.1	25°	16848.9	17590.4	17815.4	19380.1	19554.0	19502.8	19211.4	18413.6	18715.3
10186.1	27.5°	10196.3	10845.7	11607.6	12159.9	12681.4	12599.6	12308.2	11863.3	11669.0
6120.8	30°	6284.5	6575.9	6857.2	7521.9	7833.9	7997.5	7859.4	7445.2	7475.9
4029.4	32.5°	4116.4	4361.8	4566.3	4985.6	5149.3	5451.0	5394.7	5307.8	5205.5
2899.3	35°	3001.6	3180.6	3318.6	3513.0	3722.6	3978.3	4019.2	3983.4	3942.5
2239.7	37.5°	2290.8	2474.9	2633.4	2715.3	2878.9	3078.3	3190.8	3185.7	3155.0
1825.5	40°	1861.3	1999.4	2142.5	2249.9	2362.4	2510.7	2648.8	2664.1	2664.1
1534.0	42.5°	1554.5	1672.1	1815.3	1927.8	2009.6	2147.7	2290.8	2301.1	2290.8
1298.8	45°	1329.5	1431.8	1569.8	1702.8	1769.3	1871.5	2009.6	2040.3	2019.8
1114.7	47.5°	1155.6	1247.7	1365.3	1508.5	1580.1	1672.1	1799.9	1835.7	1830.6
961.3	50°	992.0	1099.4	1217.0	1334.6	1426.7	1513.6	1636.3	1677.2	1661.9
818.2	52.5°	874.4	971.6	1073.8	1201.7	1309.1	1385.8	1482.9	1554.5	1534.0
690.3	55°	731.2	848.8	956.2	1063.6	1196.6	1278.4	1370.4	1457.3	1436.9
582.9	57.5°	634.1	731.2	854.0	951.1	1084.1	1181.2	1273.3	1365.3	1360.2
475.6	60°	531.8	634.1	751.7	854.0	976.7	1084.1	1176.1	1278.4	1288.6
357.9	62.5°	419.3	542.0	644.3	761.9	884.6	1002.2	1084.1	1186.3	1201.7
271.0	65°	317.0	444.9	557.4	669.9	792.6	920.4	992.0	1078.9	1094.3
199.4	67.5°	235.2	342.6	475.6	577.8	705.7	828.4	894.9	966.4	992.0
122.7	70°	179.0	260.8	398.9	496.0	629.0	726.1	797.7	859.1	879.5
81.8	72.5°	112.5	204.5	322.1	424.4	542.0	629.0	680.1	715.9	746.6
46.0	75°	76.7	158.5	260.8	363.1	450.0	516.5	562.5	593.2	618.7
20.5	77.5°	46.0	122.7	214.8	301.7	357.9	409.1	455.1	475.6	490.9
15.3	80°	25.6	92.0	179.0	245.4	281.2	317.0	352.8	378.4	388.6
10.2	82.5°	15.3	71.6	143.2	189.2	204.5	240.3	276.1	291.5	291.5
5.1	85°	10.2	51.1	97.2	138.1	148.3	173.9	184.1	194.3	204.5
5.1	87.5°	10.2	30.7	61.4	76.7	81.8	92.0	97.2	107.4	117.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
160440.6
155168.6
145355.8
129800.6
112967.0
92794.4
70826.8
50741.1
36858.0
26850.9
18239.8
11500.2
7343.0
5169.7
3927.2
3139.7
2633.4
2280.6
2019.8
1820.4
1651.7
1528.9
1447.1
1365.3
1293.7
1211.9
1109.6
1002.2
889.7
741.5
613.6
485.8
378.4
286.4
199.4
112.5
0.0

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