

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: P637369

Luminaire Tested: **IFLD-L-SA7D-735-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637369
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-735-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46402 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

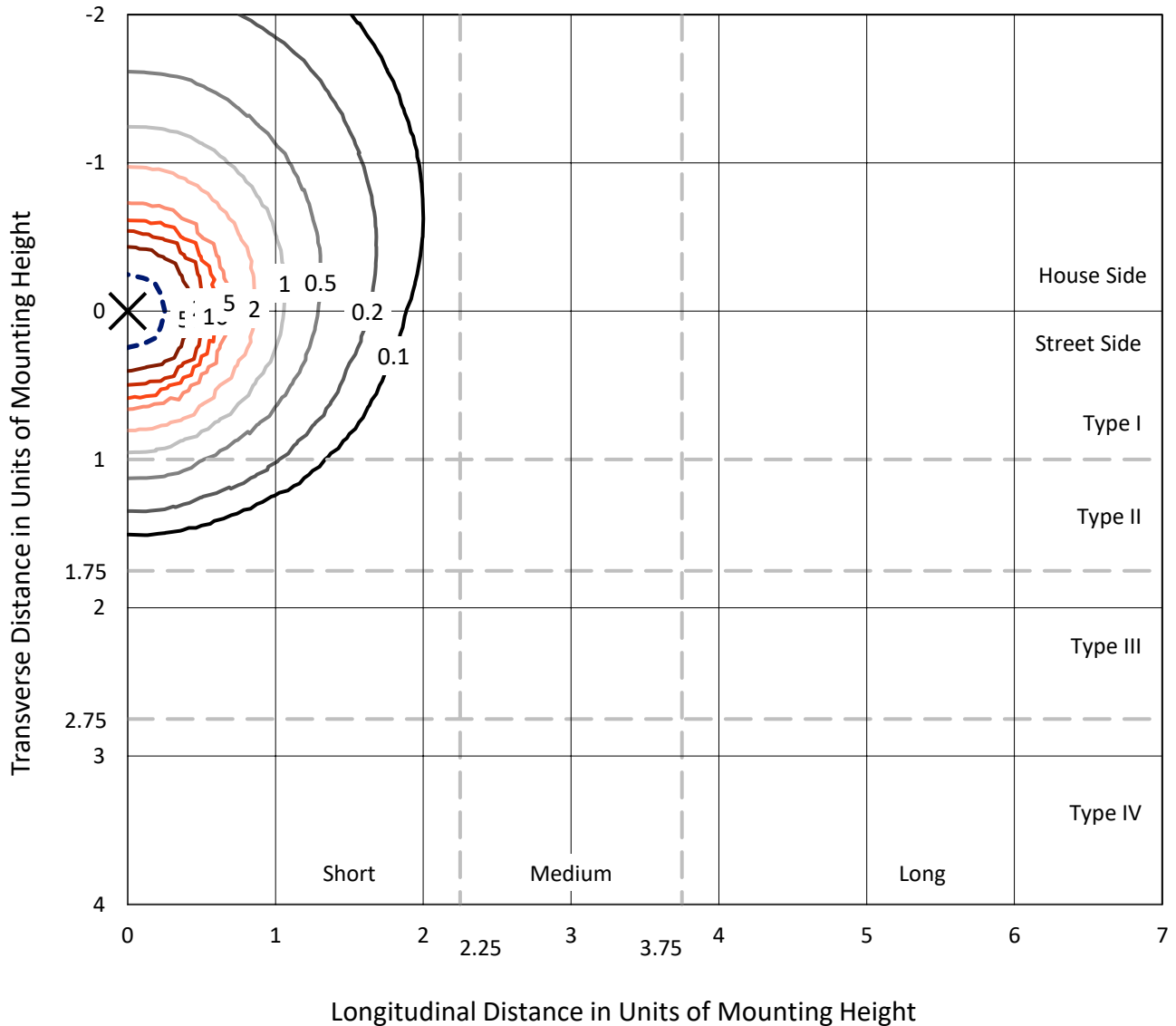
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

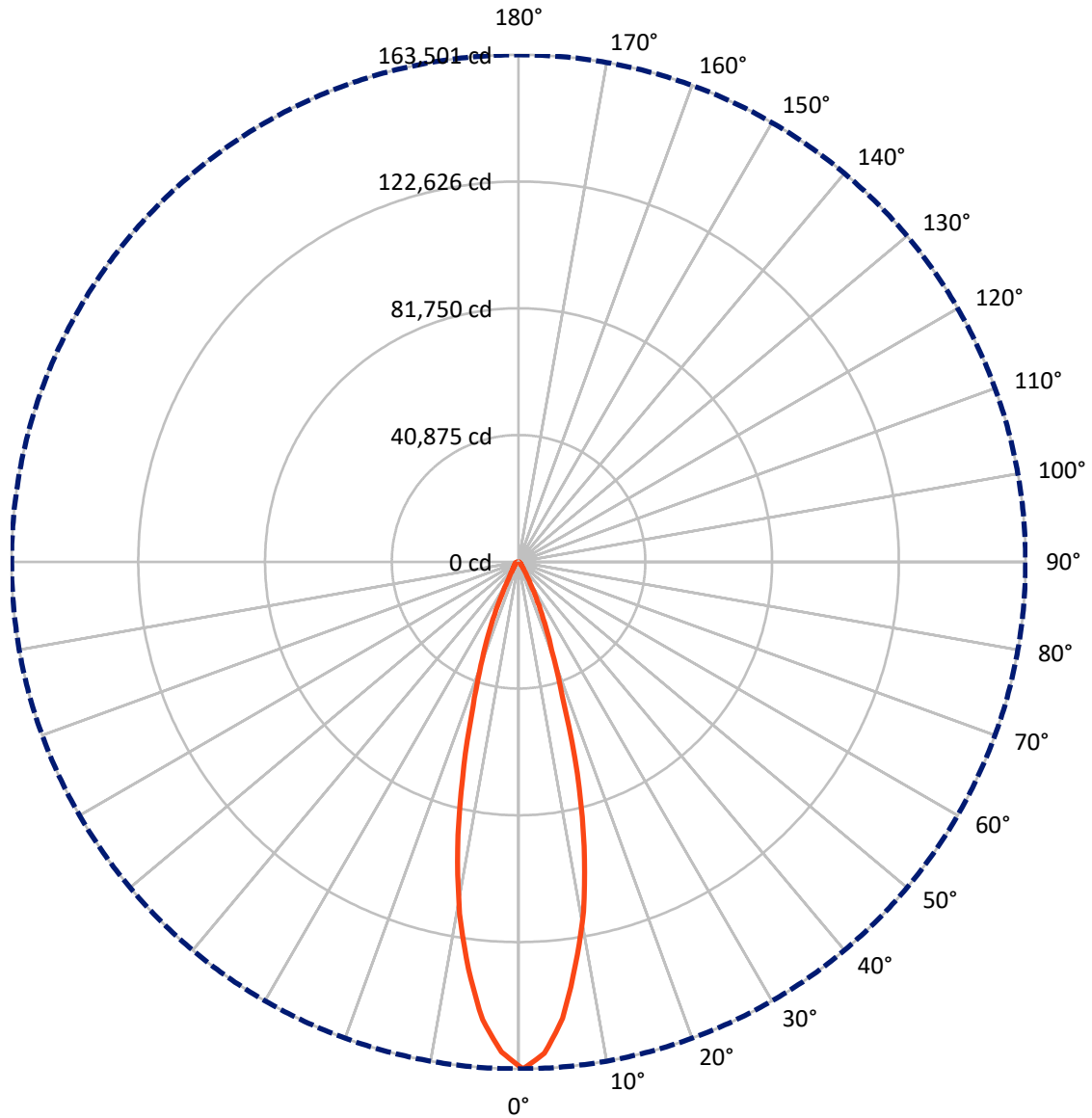
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 408.8 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	24466.3	0.0	24466.3
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	21935.7	0.0	21935.7
	% Fixture	47.3	0.0	47.3
Total	Lumens	46402.0	0.0	46402.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13196.0	28.4
10°-20°	19985.2	43.1
20°-30°	8433.9	18.2
30°-40°	2199.6	4.7
40°-50°	1112.5	2.4
50°-60°	727.2	1.6
60°-70°	435.7	0.9
70°-80°	229.2	0.5
80°-90°	82.8	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°	46402.0	100.0
0°-180°	46402.0	100.0

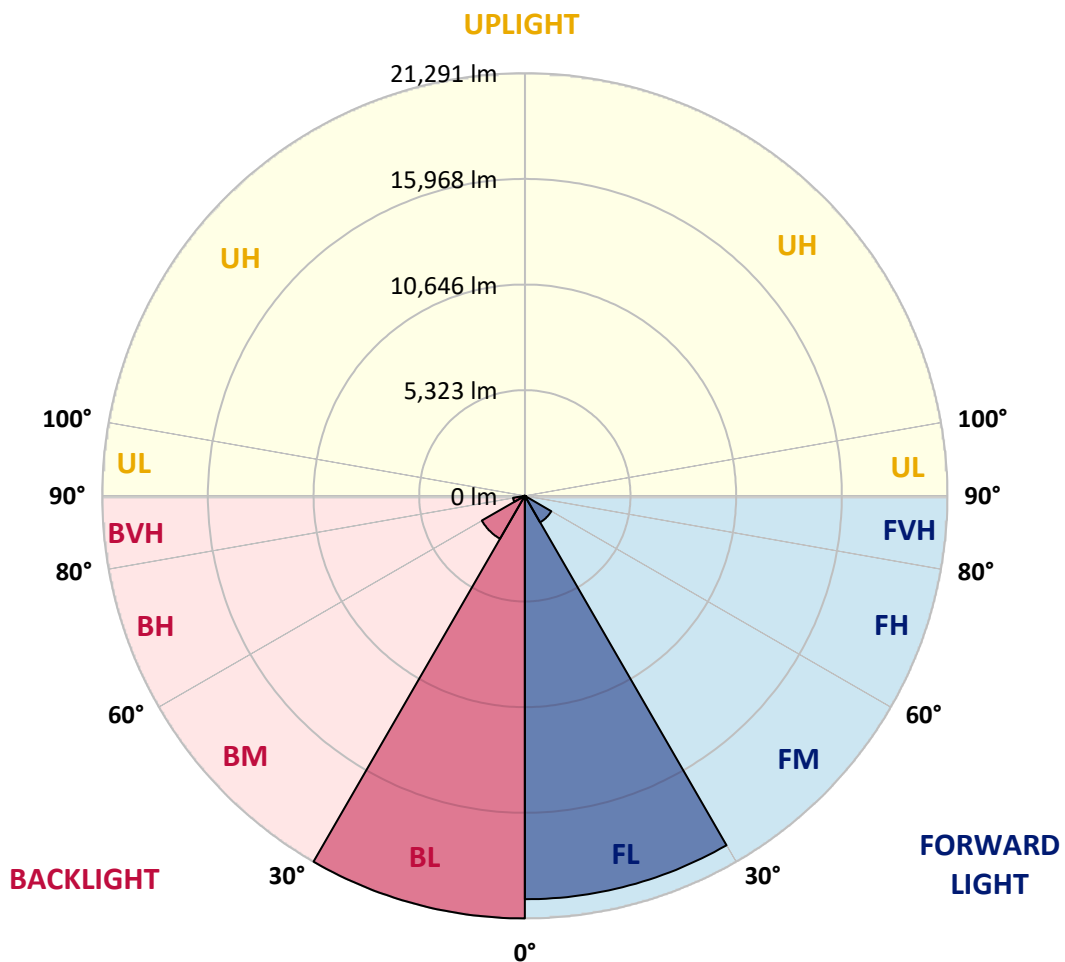


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	20323.8	43.8			
FM (30°-60°)	1539.2	3.3			
FH (60°-80°)	62.7	0.1			G0/660
FVH (80°-90°)	10.1	0.0			G1/100
BL (0°-30°)	21291.2	45.9	B5		
BM (30°-60°)	2500.2	5.4	B3/5000		
BH (60°-80°)	602.1	1.3	B2/1000		G0/660
BVH (80°-90°)	72.7	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°	163500.7	163500.7	163500.7	163500.7	163500.7	163500.7	163500.7	163500.7	163500.7	163500.7
2.5°	158737.9	158826.5	158498.2	159206.9	158654.5	160134.4	159399.7	160546.1	160160.5	160801.4
5°	147899.0	147753.1	147659.3	148758.8	148440.9	150030.3	149014.1	148680.6	149712.4	149524.8
7.5°	131531.2	131916.8	131697.9	131984.5	132146.1	133959.5	134532.7	134084.6	134100.2	134360.8
10°	114751.7	114183.7	113376.0	113912.7	115048.7	115840.8	115522.9	116179.5	116033.6	116653.7
12.5°	94105.7	94553.8	94100.5	93621.1	95606.5	95387.6	95940.0	96299.5	95398.0	97404.3
15°	70885.4	71119.9	71672.3	71635.8	73162.6	73470.1	73397.1	73777.5	73074.0	73407.5
17.5°	45539.0	46331.1	47816.3	50328.0	53152.3	53480.6	53397.3	53084.6	52745.9	52370.7
20°	30588.6	30505.3	31042.0	31776.8	37623.5	39171.2	39124.3	38144.6	36727.2	36456.2
22.5°	21427.7	21584.0	21511.1	22240.6	23449.6	27717.4	27191.1	26195.8	25732.0	25429.7
25°	14095.8	14038.5	14403.2	14622.1	15659.1	16180.2	18024.9	17654.9	16941.0	17019.2
27.5°	8593.0	8665.9	8801.4	8989.0	9723.8	9557.0	10609.6	10750.3	10521.0	10276.1
30°	5273.5	5325.7	5435.1	5570.6	5825.9	5643.5	5935.3	6440.8	6357.4	6185.5
32.5°	3580.0	3585.2	3663.3	3715.5	3684.2	3512.2	3606.0	4085.4	4095.9	4080.2
35°	2574.2	2574.2	2647.2	2688.9	2600.3	2459.6	2475.2	2772.3	2902.5	2928.6
37.5°	1777.0	1782.2	1907.2	2032.3	1933.3	1896.8	1834.3	2032.3	2240.7	2272.0
40°	1349.7	1344.4	1407.0	1500.8	1511.2	1443.5	1464.3	1589.4	1803.0	1829.1
42.5°	1094.3	1099.5	1130.8	1120.4	1125.6	1214.2	1245.4	1302.8	1500.8	1547.7
45°	922.3	927.6	943.2	891.1	870.2	1005.7	1047.4	1078.7	1245.4	1302.8
47.5°	760.8	771.2	786.9	729.5	719.1	807.7	880.7	911.9	1057.8	1120.4
50°	547.2	557.6	614.9	583.6	614.9	635.7	734.8	781.7	880.7	964.0
52.5°	396.0	406.5	422.1	427.3	505.5	515.9	588.8	661.8	708.7	802.5
55°	312.7	323.1	312.7	302.2	370.0	427.3	453.4	531.5	568.0	677.4
57.5°	177.2	187.6	203.2	234.5	244.9	328.3	354.3	422.1	453.4	557.6
60°	31.3	36.5	57.3	140.7	172.0	208.4	265.8	323.1	364.8	437.7
62.5°	5.2	5.2	10.4	31.3	99.0	145.9	192.8	229.3	265.8	333.5
65°	0.0	0.0	5.2	10.4	26.1	83.4	104.2	135.5	182.4	239.7
67.5°	0.0	0.0	5.2	10.4	15.6	31.3	46.9	83.4	104.2	161.5
70°	0.0	0.0	5.2	10.4	15.6	20.8	26.1	36.5	62.5	99.0
72.5°	0.0	0.0	5.2	10.4	15.6	20.8	26.1	31.3	31.3	62.5
75°	0.0	0.0	5.2	10.4	15.6	26.1	31.3	31.3	26.1	26.1
77.5°	0.0	0.0	5.2	10.4	20.8	31.3	36.5	31.3	20.8	20.8
80°	0.0	0.0	10.4	15.6	26.1	36.5	46.9	36.5	20.8	10.4
82.5°	0.0	0.0	10.4	20.8	26.1	41.7	57.3	46.9	20.8	10.4
85°	0.0	0.0	5.2	15.6	31.3	41.7	57.3	41.7	20.8	5.2
87.5°	0.0	0.0	5.2	5.2	10.4	15.6	31.3	26.1	10.4	5.2
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°
163500.7	0°	163500.7	163500.7	163500.7	163500.7	163500.7	163500.7	163500.7	163500.7	163500.7
159587.3	2.5°	160504.4	161338.2	161510.1	161280.9	161614.4	161015.1	160556.5	159368.4	158654.5
149467.5	5°	150431.5	150306.5	151176.7	151463.3	151426.8	150968.3	150327.3	149608.2	148909.9
133855.3	7.5°	134689.1	134850.6	135642.7	136148.1	135892.8	135319.6	134876.7	134334.7	133865.7
116877.8	10°	117946.1	116836.1	117821.0	117821.0	118503.6	116883.0	117034.1	115668.9	115731.4
97367.8	12.5°	97701.3	98102.5	98264.1	98727.9	97930.6	97070.8	96018.1	95809.7	95158.3
72771.8	15°	73819.2	74965.6	73980.8	75663.9	74851.0	73954.7	73793.2	72177.7	72688.4
52782.4	17.5°	52521.8	53788.1	54184.1	55148.2	54408.2	53876.7	53204.4	52714.6	52678.1
36951.3	20°	37243.1	38514.6	38806.4	39963.3	39879.9	39713.1	39145.1	38525.0	37852.8
25153.6	22.5°	25534.0	26571.0	27540.2	29098.3	29072.2	28582.4	28525.1	27649.6	27665.3
16993.1	25°	17170.3	17925.9	18155.2	19749.7	19926.9	19874.8	19577.8	18764.9	19072.3
10380.3	27.5°	10390.8	11052.6	11829.0	12391.8	12923.3	12839.9	12542.9	12089.6	11891.5
6237.6	30°	6404.3	6701.4	6988.0	7665.4	7983.3	8150.0	8009.3	7587.2	7618.5
4106.3	32.5°	4194.9	4445.0	4653.4	5080.7	5247.5	5554.9	5497.6	5409.0	5304.8
2954.6	35°	3058.9	3241.3	3381.9	3580.0	3793.6	4054.2	4095.9	4059.4	4017.7
2282.4	37.5°	2334.5	2522.1	2683.7	2767.0	2933.8	3137.0	3251.7	3246.5	3215.2
1860.3	40°	1896.8	2037.5	2183.4	2292.8	2407.5	2558.6	2699.3	2714.9	2714.9
1563.3	42.5°	1584.1	1704.0	1849.9	1964.6	2047.9	2188.6	2334.5	2345.0	2334.5
1323.6	45°	1354.9	1459.1	1599.8	1735.3	1803.0	1907.2	2047.9	2079.2	2058.4
1136.0	47.5°	1177.7	1271.5	1391.3	1537.2	1610.2	1704.0	1834.3	1870.8	1865.5
979.7	50°	1010.9	1120.4	1240.2	1360.1	1453.9	1542.5	1667.5	1709.2	1693.6
833.8	52.5°	891.1	990.1	1094.3	1224.6	1334.0	1412.2	1511.2	1584.1	1563.3
703.5	55°	745.2	865.0	974.5	1083.9	1219.4	1302.8	1396.6	1485.1	1464.3
594.1	57.5°	646.2	745.2	870.2	969.2	1104.7	1203.7	1297.5	1391.3	1386.1
484.6	60°	541.9	646.2	766.0	870.2	995.3	1104.7	1198.5	1302.8	1313.2
364.8	62.5°	427.3	552.4	656.6	776.4	901.5	1021.4	1104.7	1209.0	1224.6
276.2	65°	323.1	453.4	568.0	682.6	807.7	938.0	1010.9	1099.5	1115.2
203.2	67.5°	239.7	349.1	484.6	588.8	719.1	844.2	911.9	984.9	1010.9
125.1	70°	182.4	265.8	406.5	505.5	641.0	740.0	812.9	875.5	896.3
83.4	72.5°	114.6	208.4	328.3	432.5	552.4	641.0	693.1	729.5	760.8
46.9	75°	78.2	161.5	265.8	370.0	458.6	526.3	573.2	604.5	630.5
20.8	77.5°	46.9	125.1	218.9	307.4	364.8	416.9	463.8	484.6	500.3
15.6	80°	26.1	93.8	182.4	250.1	286.6	323.1	359.6	385.6	396.0
10.4	82.5°	15.6	73.0	145.9	192.8	208.4	244.9	281.4	297.0	297.0
5.2	85°	10.4	52.1	99.0	140.7	151.1	177.2	187.6	198.0	208.4
5.2	87.5°	10.4	31.3	62.5	78.2	83.4	93.8	99.0	109.4	119.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
163500.7
158128.2
148128.3
132276.4
115121.7
94564.3
72177.7
51708.9
37561.0
27363.0
18587.7
11719.6
7483.0
5268.3
4002.1
3199.6
2683.7
2324.1
2058.4
1855.1
1683.2
1558.1
1474.7
1391.3
1318.4
1235.0
1130.8
1021.4
906.7
755.6
625.3
495.0
385.6
291.8
203.2
114.6
0.0

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