

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: P637402

Luminaire Tested: **IFLD-L-SA8C-740-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637402
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-740-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48864.5 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

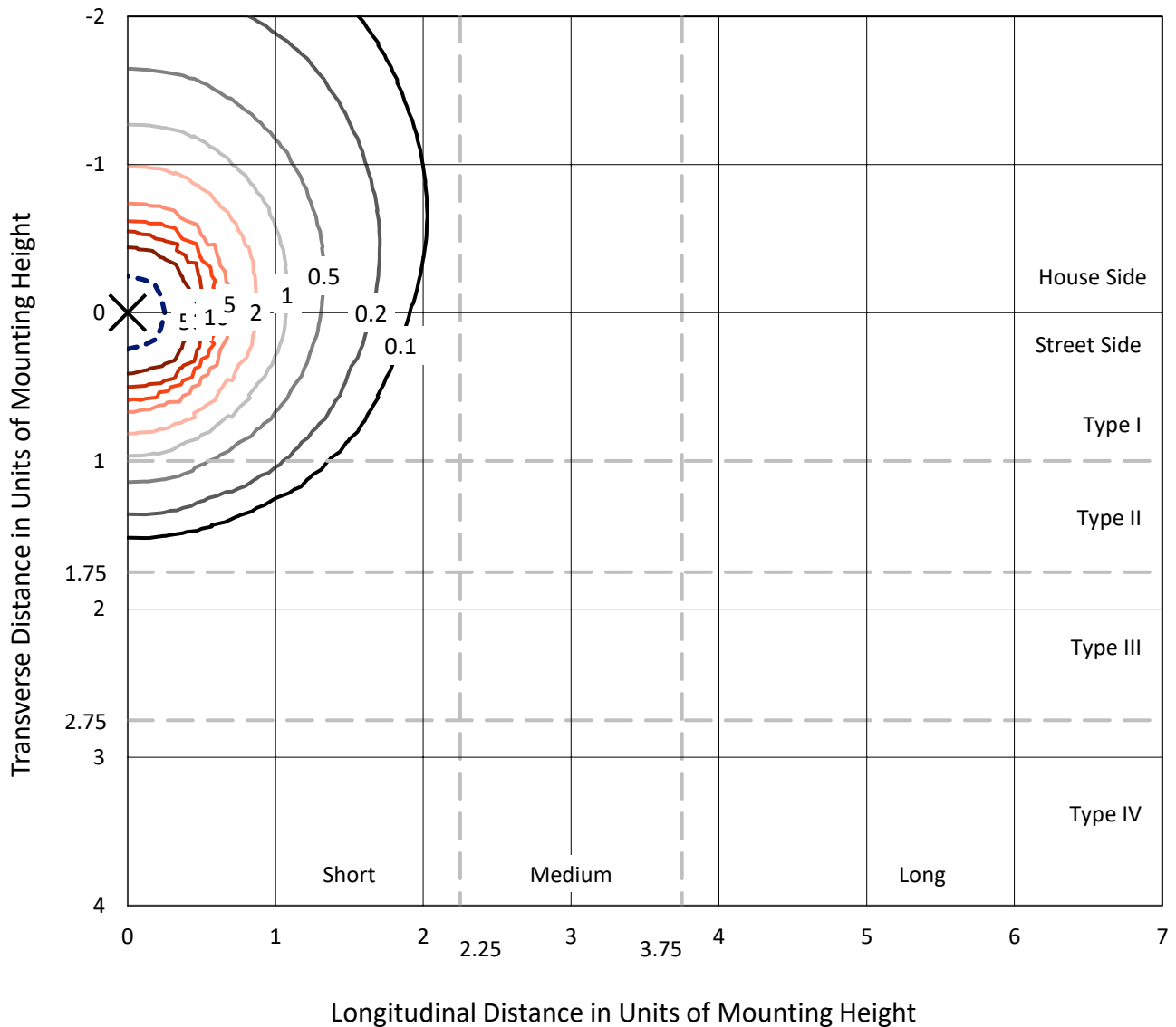
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

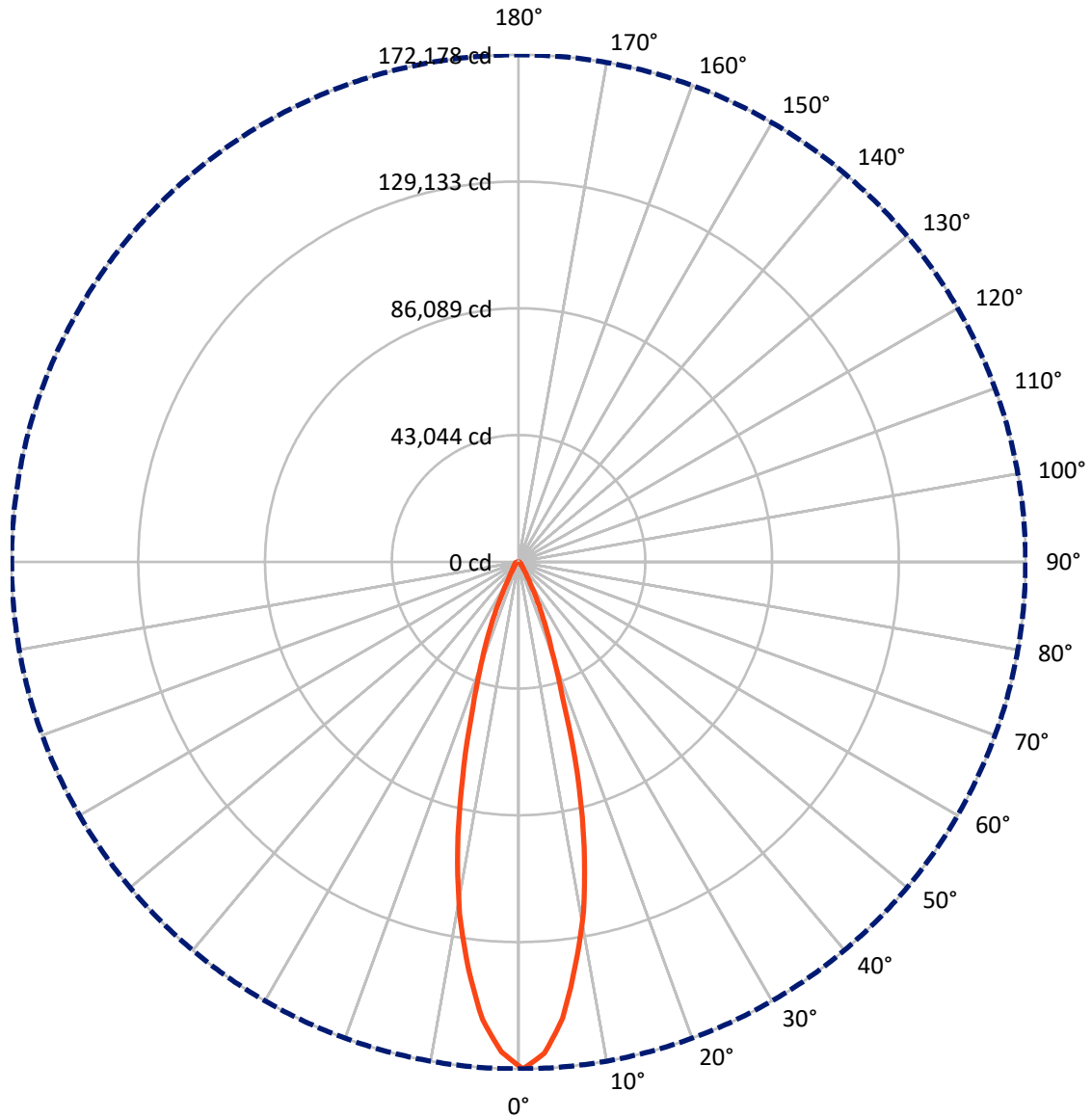
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 430.4 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	25764.7	0.0	25764.7
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	23099.9	0.0	23099.9
	% Fixture	47.3	0.0	47.3
Total	Lumens	48864.5	0.0	48864.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13896.3	28.4
10°-20°	21045.8	43.1
20°-30°	8881.4	18.2
30°-40°	2316.4	4.7
40°-50°	1171.6	2.4
50°-60°	765.8	1.6
60°-70°	458.8	0.9
70°-80°	241.4	0.5
80°-90°	87.2	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°	48864.5	100.0
0°-180°	48864.5	100.0

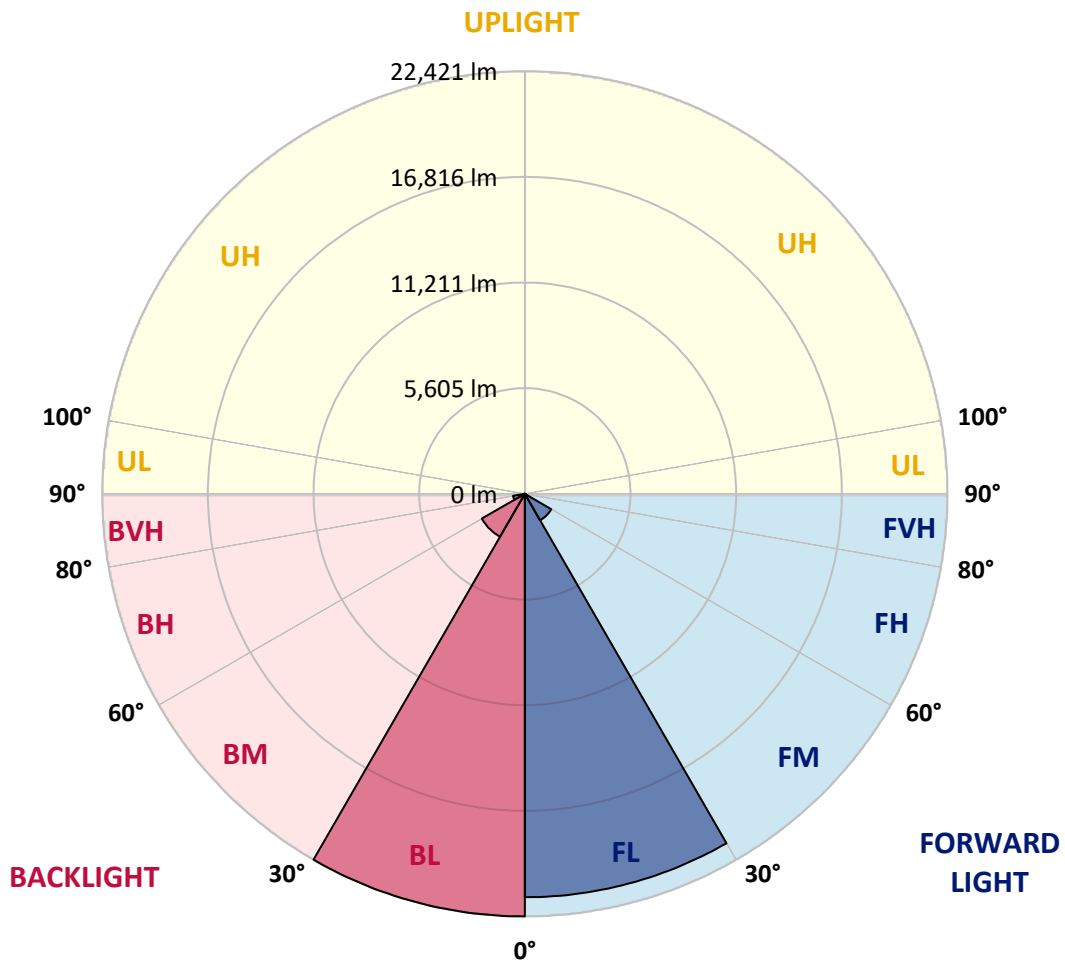


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	21402.3	43.8			
FM (30°-60°)	1620.9	3.3			
FH (60°-80°)	66.1	0.1			G0/660
FVH (80°-90°)	10.6	0.0			G1/100
BL (0°-30°)	22421.1	45.9	B5		
BM (30°-60°)	2632.9	5.4	B3/5000		
BH (60°-80°)	634.1	1.3	B2/1000		G0/660
BVH (80°-90°)	76.6	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°	172177.5	172177.5	172177.5	172177.5	172177.5	172177.5	172177.5	172177.5	172177.5	172177.5
2.5°	167161.9	167255.2	166909.5	167655.8	167074.1	168632.6	167858.8	169066.1	168660.0	169335.0
5°	155747.8	155594.1	155495.3	156653.2	156318.5	157992.2	156922.1	156570.9	157657.4	157459.9
7.5°	138511.4	138917.4	138687.0	138988.8	139158.9	141068.6	141672.2	141200.3	141216.7	141491.1
10°	120841.4	120243.3	119392.7	119957.9	121154.2	121988.3	121653.6	122345.0	122191.4	122844.4
12.5°	99099.8	99571.7	99094.3	98589.4	100680.2	100449.7	101031.4	101410.0	100460.7	102573.4
15°	74647.2	74894.1	75475.8	75437.4	77045.3	77369.0	77292.2	77692.8	76952.0	77303.2
17.5°	47955.7	48789.8	50353.8	52998.8	55973.1	56318.8	56231.0	55901.7	55545.0	55149.9
20°	32211.9	32124.1	32689.4	33463.1	39620.1	41249.9	41200.6	40168.9	38676.3	38390.9
22.5°	22564.8	22729.5	22652.6	23420.9	24694.0	29188.3	28634.1	27585.9	27097.5	26779.3
25°	14843.8	14783.5	15167.6	15398.1	16490.1	17038.9	18981.5	18591.8	17840.0	17922.4
27.5°	9049.0	9125.8	9268.5	9466.0	10239.8	10064.2	11172.7	11320.8	11079.4	10821.5
30°	5553.4	5608.3	5723.5	5866.2	6135.1	5943.0	6250.3	6782.6	6694.8	6513.7
32.5°	3770.0	3775.4	3857.8	3912.6	3879.7	3698.6	3797.4	4302.2	4313.2	4296.8
35°	2710.9	2710.9	2787.7	2831.6	2738.3	2590.1	2606.6	2919.4	3056.6	3084.0
37.5°	1871.3	1876.7	2008.4	2140.1	2035.9	1997.5	1931.6	2140.1	2359.6	2392.6
40°	1421.3	1415.8	1481.6	1580.4	1591.4	1520.1	1542.0	1673.7	1898.7	1926.1
42.5°	1152.4	1157.9	1190.8	1179.8	1185.3	1278.6	1311.5	1371.9	1580.4	1629.8
45°	971.3	976.8	993.2	938.4	916.4	1059.1	1103.0	1135.9	1311.5	1371.9
47.5°	801.2	812.2	828.6	768.3	757.3	850.6	927.4	960.3	1114.0	1179.8
50°	576.2	587.2	647.5	614.6	647.5	669.5	773.7	823.1	927.4	1015.2
52.5°	417.1	428.0	444.5	450.0	532.3	543.3	620.1	696.9	746.3	845.1
55°	329.3	340.2	329.3	318.3	389.6	450.0	477.4	559.7	598.1	713.4
57.5°	186.6	197.6	214.0	246.9	257.9	345.7	373.2	444.5	477.4	587.2
60°	32.9	38.4	60.4	148.2	181.1	219.5	279.9	340.2	384.1	461.0
62.5°	5.5	5.5	11.0	32.9	104.3	153.7	203.0	241.5	279.9	351.2
65°	0.0	0.0	5.5	11.0	27.4	87.8	109.8	142.7	192.1	252.4
67.5°	0.0	0.0	5.5	11.0	16.5	32.9	49.4	87.8	109.8	170.1
70°	0.0	0.0	5.5	11.0	16.5	22.0	27.4	38.4	65.9	104.3
72.5°	0.0	0.0	5.5	11.0	16.5	22.0	27.4	32.9	32.9	65.9
75°	0.0	0.0	5.5	11.0	16.5	27.4	32.9	32.9	27.4	27.4
77.5°	0.0	0.0	5.5	11.0	22.0	32.9	38.4	32.9	22.0	22.0
80°	0.0	0.0	11.0	16.5	27.4	38.4	49.4	38.4	22.0	11.0
82.5°	0.0	0.0	11.0	22.0	27.4	43.9	60.4	49.4	22.0	11.0
85°	0.0	0.0	5.5	16.5	32.9	43.9	60.4	43.9	22.0	5.5
87.5°	0.0	0.0	5.5	5.5	11.0	16.5	32.9	27.4	11.0	5.5
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°
172177.5	0°	172177.5	172177.5	172177.5	172177.5	172177.5	172177.5	172177.5	172177.5	172177.5
168056.4	2.5°	169022.2	169900.2	170081.3	169839.8	170191.0	169560.0	169077.0	167825.9	167074.1
157399.5	5°	158414.7	158283.0	159199.4	159501.3	159462.9	158979.9	158305.0	157547.7	156812.4
140958.8	7.5°	141836.8	142006.9	142841.0	143373.3	143104.5	142500.8	142034.4	141463.7	140969.8
123080.4	10°	124205.3	123036.5	124073.6	124073.6	124792.5	123085.9	123245.0	121807.3	121873.1
102535.0	12.5°	102886.2	103308.7	103478.8	103967.2	103127.6	102222.2	101113.7	100894.2	100208.2
76633.7	15°	77736.7	78944.0	77906.8	79679.3	78823.2	77879.4	77709.3	76008.1	76545.9
55583.4	17.5°	55309.1	56642.5	57059.6	58074.8	57295.6	56735.8	56027.9	55512.1	55473.7
38912.3	20°	39219.6	40558.5	40865.8	42084.1	41996.3	41820.7	41222.5	40569.5	39861.6
26488.4	22.5°	26889.0	27981.0	29001.7	30642.5	30615.1	30099.2	30038.9	29117.0	29133.4
17894.9	25°	18081.5	18877.2	19118.6	20797.8	20984.4	20929.5	20616.7	19760.7	20084.5
10931.2	27.5°	10942.2	11639.1	12456.7	13049.4	13609.1	13521.3	13208.5	12731.1	12522.6
6568.6	30°	6744.2	7057.0	7358.8	8072.2	8406.9	8582.5	8434.4	7989.9	8022.8
4324.2	32.5°	4417.5	4680.9	4900.4	5350.4	5526.0	5849.7	5789.4	5696.1	5586.3
3111.4	35°	3221.2	3413.3	3561.4	3770.0	3994.9	4269.3	4313.2	4274.8	4230.9
2403.5	37.5°	2458.4	2656.0	2826.1	2913.9	3089.5	3303.5	3424.2	3418.7	3385.8
1959.1	40°	1997.5	2145.6	2299.3	2414.5	2535.3	2694.4	2842.6	2859.0	2859.0
1646.3	42.5°	1668.2	1794.4	1948.1	2068.8	2156.6	2304.8	2458.4	2469.4	2458.4
1393.8	45°	1426.8	1536.5	1684.7	1827.4	1898.7	2008.4	2156.6	2189.5	2167.6
1196.3	47.5°	1240.2	1339.0	1465.2	1618.8	1695.7	1794.4	1931.6	1970.0	1964.5
1031.7	50°	1064.6	1179.8	1306.0	1432.3	1531.0	1624.3	1756.0	1799.9	1783.5
878.0	52.5°	938.4	1042.6	1152.4	1289.6	1404.8	1487.1	1591.4	1668.2	1646.3
740.8	55°	784.7	910.9	1026.2	1141.4	1284.1	1371.9	1470.7	1564.0	1542.0
625.6	57.5°	680.5	784.7	916.4	1020.7	1163.4	1267.6	1366.4	1465.2	1459.7
510.3	60°	570.7	680.5	806.7	916.4	1048.1	1163.4	1262.1	1371.9	1382.9
384.1	62.5°	450.0	581.7	691.4	817.6	949.3	1075.6	1163.4	1273.1	1289.6
290.8	65°	340.2	477.4	598.1	718.9	850.6	987.8	1064.6	1157.9	1174.3
214.0	67.5°	252.4	367.7	510.3	620.1	757.3	889.0	960.3	1037.1	1064.6
131.7	70°	192.1	279.9	428.0	532.3	675.0	779.2	856.1	921.9	943.9
87.8	72.5°	120.7	219.5	345.7	455.5	581.7	675.0	729.8	768.3	801.2
49.4	75°	82.3	170.1	279.9	389.6	482.9	554.2	603.6	636.6	664.0
22.0	77.5°	49.4	131.7	230.5	323.8	384.1	439.0	488.4	510.3	526.8
16.5	80°	27.4	98.8	192.1	263.4	301.8	340.2	378.6	406.1	417.1
11.0	82.5°	16.5	76.8	153.7	203.0	219.5	257.9	296.3	312.8	312.8
5.5	85°	11.0	54.9	104.3	148.2	159.1	186.6	197.6	208.5	219.5
5.5	87.5°	11.0	32.9	65.9	82.3	87.8	98.8	104.3	115.2	126.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
172177.5
166519.8
155989.2
139296.1
121231.1
99582.7
76008.1
54453.0
39554.3
28815.1
19574.1
12341.5
7880.1
5547.9
4214.4
3369.4
2826.1
2447.4
2167.6
1953.6
1772.5
1640.8
1553.0
1465.2
1388.4
1300.6
1190.8
1075.6
954.8
795.7
658.5
521.3
406.1
307.3
214.0
120.7
0.0

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