

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: P637425

Luminaire Tested: **IFLD-L-SA7B-750-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637425
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-750-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35133.8 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

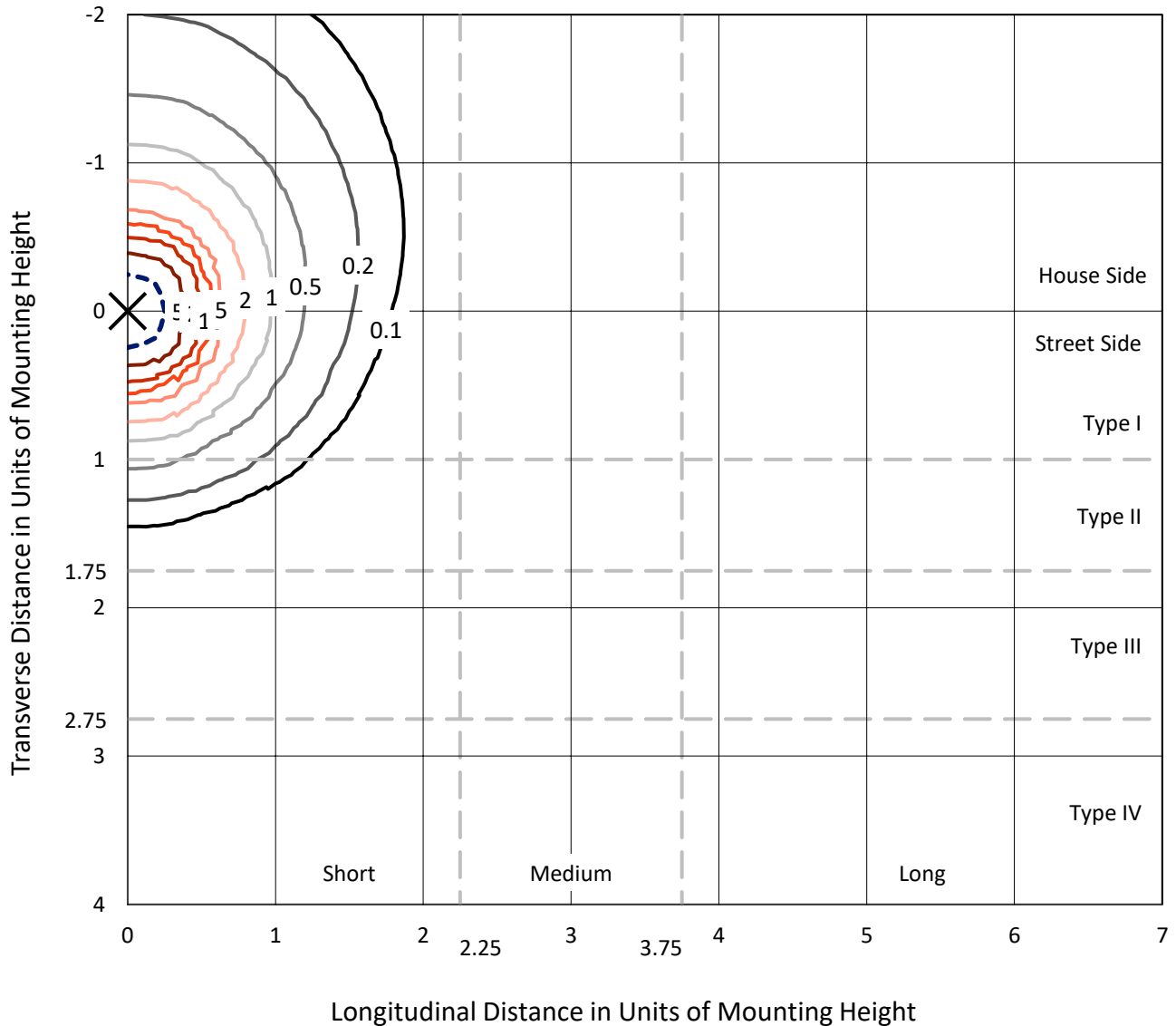
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

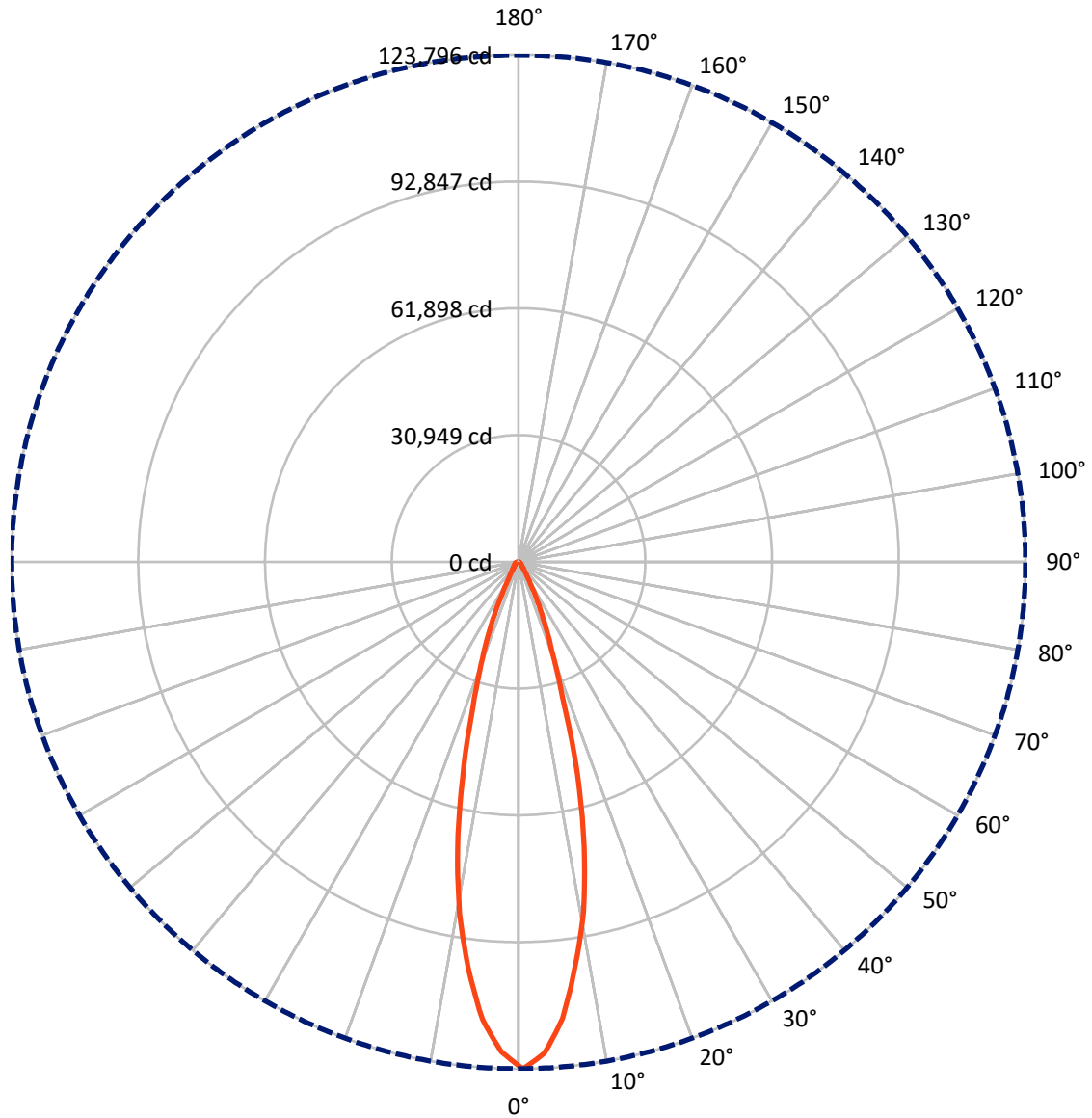
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 309.5 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	18524.9	0.0	18524.9
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	16608.9	0.0	16608.9
	% Fixture	47.3	0.0	47.3
Total	Lumens	35133.8	0.0	35133.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9991.5	28.4
10°-20°	15132.0	43.1
20°-30°	6385.8	18.2
30°-40°	1665.5	4.7
40°-50°	842.4	2.4
50°-60°	550.6	1.6
60°-70°	329.9	0.9
70°-80°	173.5	0.5
80°-90°	62.7	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°	35133.8	100.0
0°-180°	35133.8	100.0

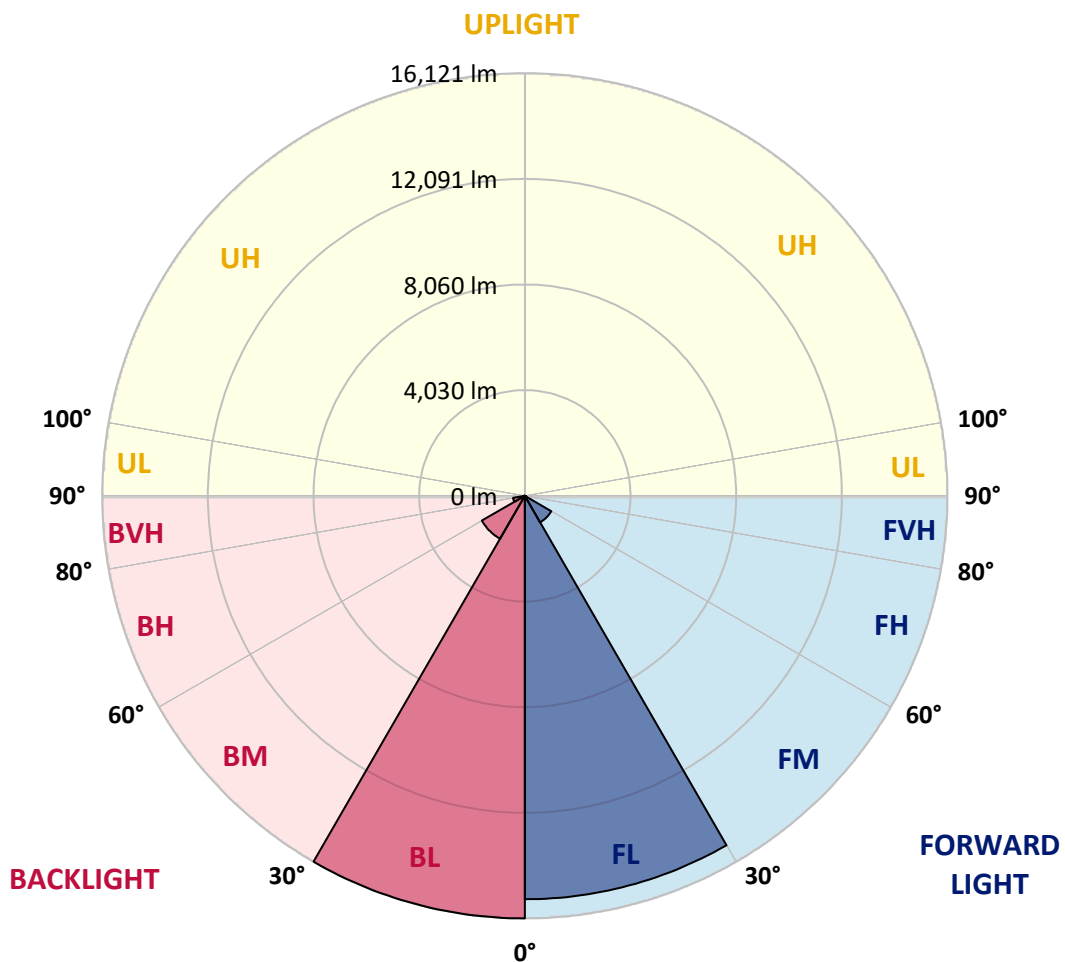


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	15388.4	43.8			
FM (30°-60°)	1165.4	3.3			
FH (60°-80°)	47.5	0.1			G0/660
FVH (80°-90°)	7.6	0.0			G0/10
BL (0°-30°)	16120.9	45.9	B5		
BM (30°-60°)	1893.0	5.4	B2/2500		
BH (60°-80°)	455.9	1.3	B1/500		G0/660
BVH (80°-90°)	55.1	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°	123796.3	123796.3	123796.3	123796.3	123796.3	123796.3	123796.3	123796.3	123796.3	123796.3
2.5°	120190.1	120257.1	120008.6	120545.2	120126.9	121247.5	120691.1	121559.2	121267.2	121752.5
5°	111983.3	111872.8	111801.8	112634.3	112393.6	113597.0	112827.6	112575.1	113356.3	113214.3
7.5°	99590.2	99882.2	99716.5	99933.5	100055.8	101428.9	101862.9	101523.5	101535.4	101732.7
10°	86885.5	86455.4	85843.8	86250.2	87110.4	87710.1	87469.4	87966.6	87856.1	88325.6
12.5°	71253.1	71592.4	71249.2	70886.2	72389.4	72223.7	72642.0	72914.2	72231.6	73750.7
15°	53671.6	53849.2	54267.4	54239.8	55395.8	55628.6	55573.4	55861.4	55328.8	55581.3
17.5°	34480.4	35080.1	36204.6	38106.3	40244.8	40493.4	40430.3	40193.6	39937.1	39653.0
20°	23160.5	23097.4	23503.8	24060.1	28487.0	29658.9	29623.4	28881.6	27808.4	27603.2
22.5°	16224.2	16342.6	16287.3	16839.7	17755.1	20986.5	20588.0	19834.4	19483.2	19254.4
25°	10672.8	10629.4	10905.6	11071.3	11856.4	12251.0	13647.7	13367.6	12827.1	12886.2
27.5°	6506.3	6561.5	6664.1	6806.1	7362.4	7236.2	8033.2	8139.7	7966.1	7780.7
30°	3992.9	4032.4	4115.2	4217.8	4411.2	4273.1	4494.0	4876.7	4813.6	4683.4
32.5°	2710.6	2714.6	2773.7	2813.2	2789.5	2659.3	2730.3	3093.3	3101.2	3089.4
35°	1949.1	1949.1	2004.4	2035.9	1968.8	1862.3	1874.1	2099.0	2197.7	2217.4
37.5°	1345.4	1349.4	1444.1	1538.8	1463.8	1436.2	1388.8	1538.8	1696.6	1720.3
40°	1021.9	1018.0	1065.3	1136.3	1144.2	1092.9	1108.7	1203.4	1365.2	1384.9
42.5°	828.6	832.5	856.2	848.3	852.2	919.3	943.0	986.4	1136.3	1171.8
45°	698.4	702.3	714.1	674.7	658.9	761.5	793.1	816.7	943.0	986.4
47.5°	576.1	583.9	595.8	552.4	544.5	611.6	666.8	690.5	801.0	848.3
50°	414.3	422.2	465.6	441.9	465.6	481.4	556.3	591.8	666.8	729.9
52.5°	299.9	307.8	319.6	323.5	382.7	390.6	445.8	501.1	536.6	607.6
55°	236.7	244.6	236.7	228.8	280.1	323.5	343.3	402.4	430.1	512.9
57.5°	134.1	142.0	153.9	177.6	185.4	248.6	268.3	319.6	343.3	422.2
60°	23.7	27.6	43.4	106.5	130.2	157.8	201.2	244.6	276.2	331.4
62.5°	3.9	3.9	7.9	23.7	75.0	110.5	146.0	173.6	201.2	252.5
65°	0.0	0.0	3.9	7.9	19.7	63.1	78.9	102.6	138.1	181.5
67.5°	0.0	0.0	3.9	7.9	11.8	23.7	35.5	63.1	78.9	122.3
70°	0.0	0.0	3.9	7.9	11.8	15.8	19.7	27.6	47.3	75.0
72.5°	0.0	0.0	3.9	7.9	11.8	15.8	19.7	23.7	23.7	47.3
75°	0.0	0.0	3.9	7.9	11.8	19.7	23.7	23.7	19.7	19.7
77.5°	0.0	0.0	3.9	7.9	15.8	23.7	27.6	23.7	15.8	15.8
80°	0.0	0.0	7.9	11.8	19.7	27.6	35.5	27.6	15.8	7.9
82.5°	0.0	0.0	7.9	15.8	19.7	31.6	43.4	35.5	15.8	7.9
85°	0.0	0.0	3.9	11.8	23.7	31.6	43.4	31.6	15.8	3.9
87.5°	0.0	0.0	3.9	3.9	7.9	11.8	23.7	19.7	7.9	3.9
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°
123796.3	0°	123796.3	123796.3	123796.3	123796.3	123796.3	123796.3	123796.3	123796.3	123796.3
120833.2	2.5°	121527.6	122158.9	122289.1	122115.5	122368.0	121914.3	121567.1	120667.5	120126.9
113170.9	5°	113900.8	113806.1	114465.0	114682.0	114654.4	114307.2	113821.9	113277.4	112748.7
101349.9	7.5°	101981.2	102103.5	102703.3	103086.0	102892.7	102458.6	102123.3	101712.9	101357.8
88495.3	10°	89304.1	88463.7	89209.4	89209.4	89726.3	88499.2	88613.6	87579.9	87627.2
73723.0	12.5°	73975.6	74279.4	74401.7	74752.8	74149.2	73498.1	72701.1	72543.3	72050.1
55099.9	15°	55893.0	56761.0	56015.3	57289.7	56674.2	55995.6	55873.3	54650.1	55036.8
39964.7	17.5°	39767.4	40726.2	41026.1	41756.0	41195.7	40793.3	40284.3	39913.4	39885.8
27978.1	20°	28199.0	29161.7	29382.7	30258.6	30195.5	30069.2	29639.1	29169.6	28660.6
19045.3	22.5°	19333.3	20118.5	20852.4	22032.1	22012.4	21641.5	21598.1	20935.2	20947.0
12866.5	25°	13000.7	13572.8	13746.4	14953.7	15087.9	15048.4	14823.5	14208.0	14440.8
7859.6	27.5°	7867.5	8368.6	8956.5	9382.6	9785.0	9721.9	9497.0	9153.7	9003.8
4722.9	30°	4849.1	5074.0	5291.0	5803.9	6044.6	6170.9	6064.3	5744.8	5768.4
3109.1	32.5°	3176.2	3365.6	3523.4	3846.9	3973.2	4206.0	4162.6	4095.5	4016.6
2237.1	35°	2316.1	2454.1	2560.7	2710.6	2872.4	3069.7	3101.2	3073.6	3042.0
1728.2	37.5°	1767.6	1909.7	2032.0	2095.1	2221.4	2375.2	2462.0	2458.1	2434.4
1408.6	40°	1436.2	1542.7	1653.2	1736.1	1822.9	1937.3	2043.8	2055.6	2055.6
1183.7	42.5°	1199.5	1290.2	1400.7	1487.5	1550.6	1657.1	1767.6	1775.5	1767.6
1002.2	45°	1025.8	1104.8	1211.3	1313.9	1365.2	1444.1	1550.6	1574.3	1558.5
860.1	47.5°	891.7	962.7	1053.5	1163.9	1219.2	1290.2	1388.8	1416.5	1412.5
741.8	50°	765.4	848.3	939.0	1029.8	1100.8	1167.9	1262.6	1294.1	1282.3
631.3	52.5°	674.7	749.7	828.6	927.2	1010.1	1069.3	1144.2	1199.5	1183.7
532.7	55°	564.2	655.0	737.8	820.7	923.3	986.4	1057.4	1124.5	1108.7
449.8	57.5°	489.3	564.2	658.9	733.9	836.5	911.4	982.4	1053.5	1049.5
366.9	60°	410.3	489.3	580.0	658.9	753.6	836.5	907.5	986.4	994.3
276.2	62.5°	323.5	418.2	497.1	587.9	682.6	773.3	836.5	915.4	927.2
209.1	65°	244.6	343.3	430.1	516.9	611.6	710.2	765.4	832.5	844.4
153.9	67.5°	181.5	264.4	366.9	445.8	544.5	639.2	690.5	745.7	765.4
94.7	70°	138.1	201.2	307.8	382.7	485.3	560.3	615.5	662.9	678.6
63.1	72.5°	86.8	157.8	248.6	327.5	418.2	485.3	524.8	552.4	576.1
35.5	75°	59.2	122.3	201.2	280.1	347.2	398.5	434.0	457.7	477.4
15.8	77.5°	35.5	94.7	165.7	232.8	276.2	315.6	351.2	366.9	378.8
11.8	80°	19.7	71.0	138.1	189.4	217.0	244.6	272.2	292.0	299.9
7.9	82.5°	11.8	55.2	110.5	146.0	157.8	185.4	213.1	224.9	224.9
3.9	85°	7.9	39.5	75.0	106.5	114.4	134.1	142.0	149.9	157.8
3.9	87.5°	7.9	23.7	47.3	59.2	63.1	71.0	75.0	82.9	90.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
123796.3
119728.4
112156.9
100154.4
87165.6
71600.3
54650.1
39151.9
28439.7
20718.2
14073.9
8873.6
5665.8
3989.0
3030.2
2422.6
2032.0
1759.7
1558.5
1404.6
1274.4
1179.7
1116.6
1053.5
998.2
935.1
856.2
773.3
686.5
572.1
473.5
374.8
292.0
221.0
153.9
86.8
0.0

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