

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: P636649

Luminaire Tested: **IFLD-L-SA8D-935-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636649
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-935-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (128) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29472.9 lumens
Efficiency: N/A
Efficacy: 60.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

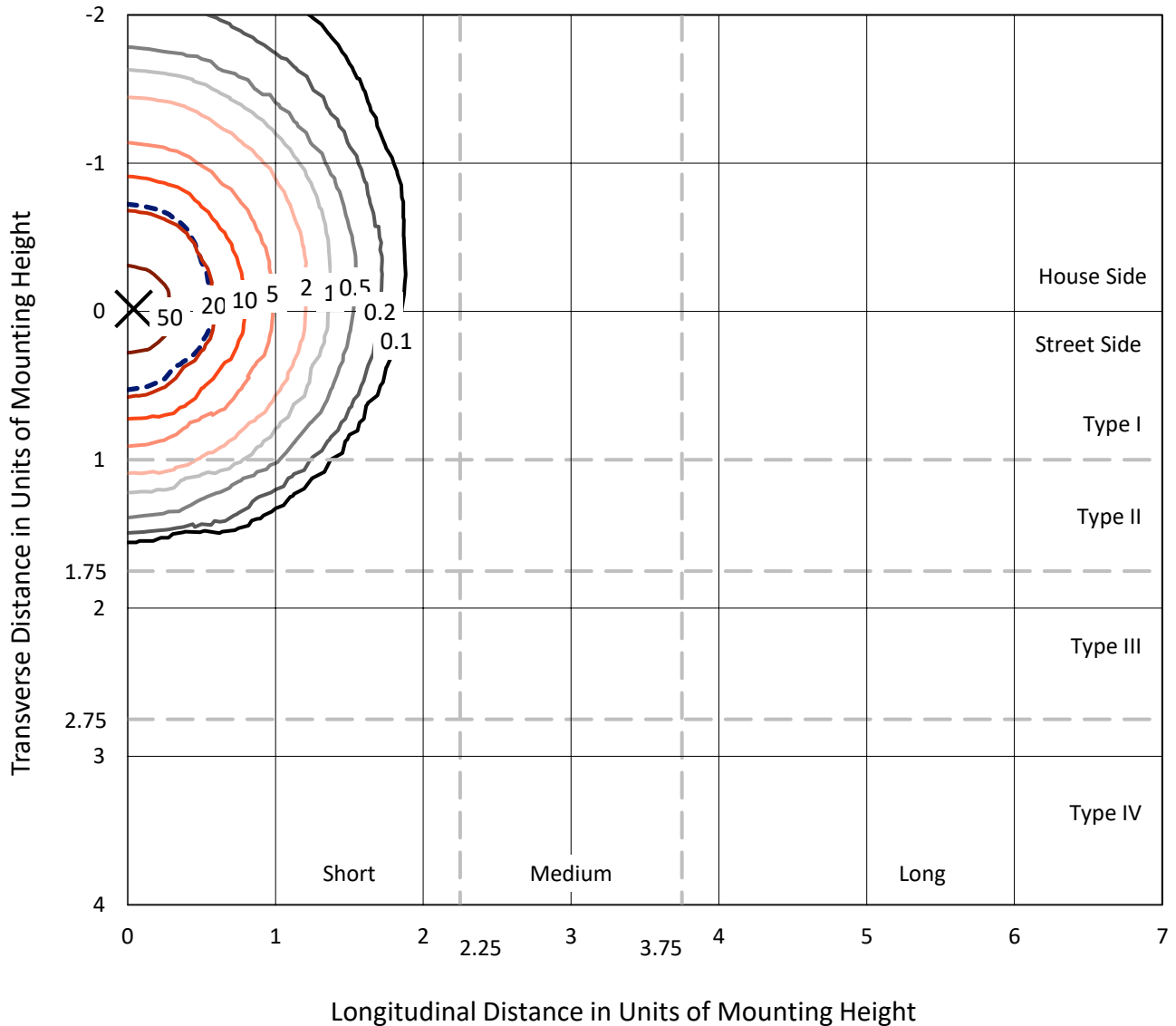
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

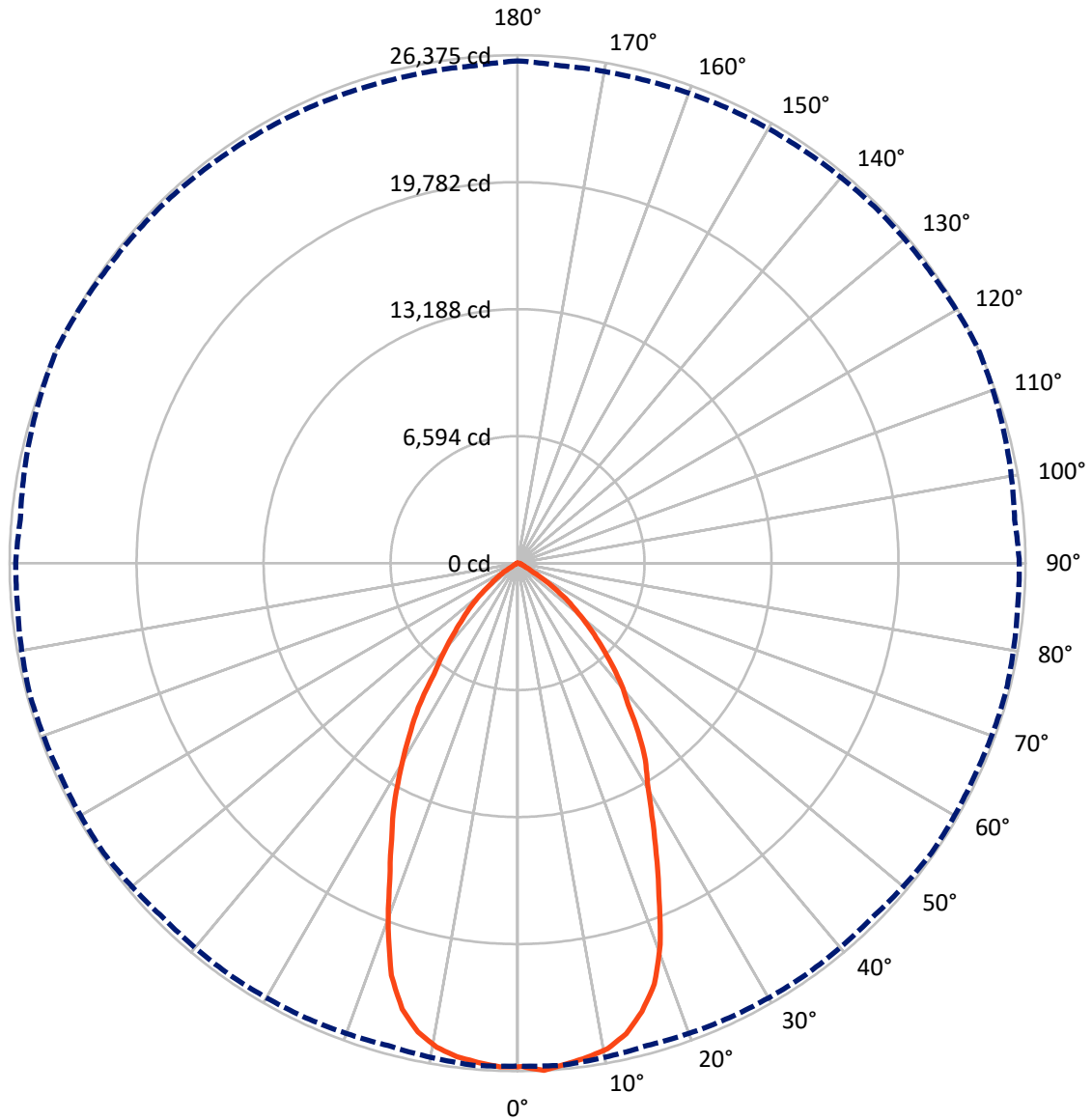
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 65.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16866.9	0.0	16866.9
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	12605.9	0.0	12605.9
	% Fixture	42.8	0.0	42.8
Total	Lumens	29472.9	0.0	29472.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2463.0	8.4
10°-20°	6530.6	22.2
20°-30°	7469.6	25.3
30°-40°	6401.3	21.7
40°-50°	4232.8	14.4
50°-60°	1847.0	6.3
60°-70°	362.9	1.2
70°-80°	130.9	0.4
80°-90°	34.8	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°	29472.9	100.0
0°-180°	29472.9	100.0



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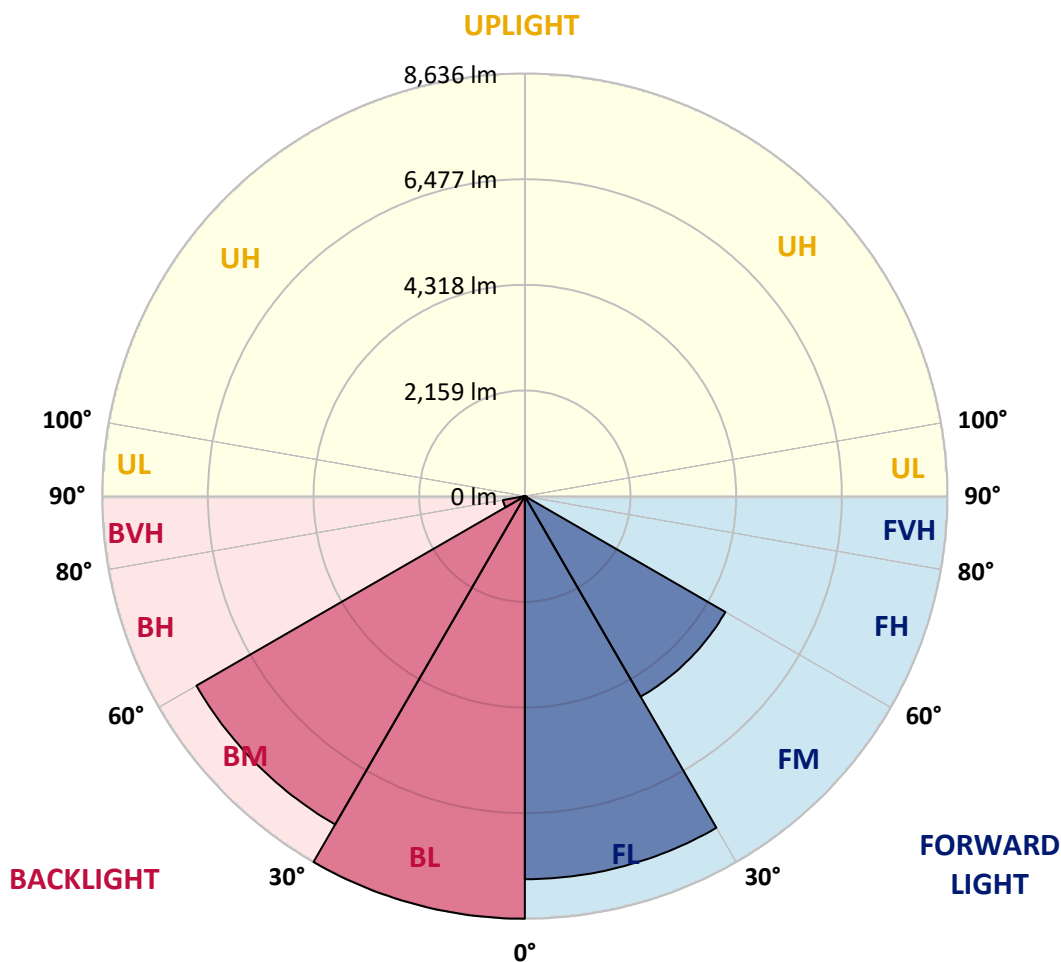
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7827.4	26.6			
FM (30°-60°)	4732.7	16.1			
FH (60°-80°)	40.1	0.1			G0/660
FVH (80°-90°)	5.8	0.0			G0/10
BL (0°-30°)	8635.8	29.3	B5		
BM (30°-60°)	7748.3	26.3	B4/8500		
BH (60°-80°)	453.8	1.5	B1/500		G1/500
BVH (80°-90°)	29.1	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	26149.9	26149.9	26149.9	26149.9	26149.9	26149.9	26149.9	26149.9	26149.9	26149.9
2.5°	26112.3	26174.9	25936.8	26043.4	26087.2	26030.8	26237.6	26174.9	26225.0	26068.4
5°	26112.3	26174.9	25899.3	25949.4	25961.9	25855.4	26080.9	26005.8	26012.0	25849.1
7.5°	25949.4	26024.6	25774.0	25811.6	25817.8	25730.1	25924.3	25817.8	25780.2	25611.1
10°	25510.8	25554.7	25329.2	25423.1	25510.8	25429.4	25598.5	25479.5	25479.5	25329.2
12.5°	24815.4	24896.9	24646.3	24759.0	24834.2	24740.2	24934.5	24890.6	24896.9	24746.5
15°	23549.9	23268.0	23568.7	23794.2	23800.5	23781.7	23963.4	23919.5	23950.9	23725.3
17.5°	17397.7	17328.8	17679.7	20342.3	22322.0	22591.4	22622.7	22384.6	22278.1	22058.9
20°	16119.7	16169.8	16094.6	16107.2	17667.1	20906.1	20711.9	20123.0	19853.6	19634.3
22.5°	15186.2	15104.8	15054.6	15023.3	15067.2	17178.5	18575.5	17685.9	17541.8	17435.3
25°	14171.3	14133.7	14071.1	14058.5	14033.5	13676.4	15687.4	15768.9	15537.1	15405.5
27.5°	13225.3	13200.2	13131.3	13125.0	12836.9	11972.3	12191.6	14127.4	14064.8	14014.7
30°	12216.6	12166.5	12128.9	12128.9	11258.1	10368.5	10011.4	12316.9	12316.9	12273.0
32.5°	11120.3	11076.4	11088.9	10938.6	9898.6	9084.2	8520.3	10631.6	11289.4	11251.8
35°	6797.5	6784.9	8056.7	9729.5	8507.8	7768.5	7730.9	9096.7	10055.2	10155.5
37.5°	6051.9	6014.3	6033.1	6139.6	7286.1	6991.7	6979.1	7210.9	8557.9	8608.0
40°	5431.7	5406.6	5387.8	5005.7	4642.3	6239.9	6196.0	6045.7	7311.2	7398.9
42.5°	4842.8	4817.7	4817.7	4279.0	3690.0	5131.0	5149.8	4974.4	6164.7	6196.0
45°	4235.1	4216.3	4109.8	3414.4	3245.2	3408.1	4266.4	4065.9	4892.9	5218.7
47.5°	1998.5	1986.0	2875.6	2838.0	2825.5	2725.2	3257.8	3370.5	3884.3	4210.0
50°	1603.8	1591.3	1516.1	1334.4	2324.3	2067.4	2349.4	2593.7	2756.6	3057.3
52.5°	1328.2	1315.6	1159.0	1027.5	1290.6	1509.9	1403.3	1735.4	1729.1	2054.9
55°	870.8	808.2	889.6	839.5	676.6	1096.4	1071.3	1315.6	1284.3	1566.2
57.5°	18.8	18.8	43.9	476.1	426.0	463.6	614.0	751.8	845.8	927.2
60°	6.3	6.3	12.5	25.1	175.4	194.2	238.1	275.7	388.4	482.4
62.5°	0.0	0.0	6.3	12.5	25.1	100.2	112.8	131.6	181.7	250.6
65°	0.0	0.0	0.0	6.3	12.5	25.1	37.6	81.4	112.8	144.1
67.5°	0.0	0.0	0.0	6.3	6.3	12.5	25.1	37.6	50.1	100.2
70°	0.0	0.0	0.0	6.3	6.3	12.5	18.8	25.1	37.6	50.1
72.5°	0.0	0.0	0.0	6.3	6.3	18.8	12.5	18.8	25.1	31.3
75°	0.0	0.0	0.0	6.3	6.3	6.3	12.5	18.8	18.8	25.1
77.5°	0.0	0.0	0.0	6.3	12.5	12.5	12.5	12.5	12.5	18.8
80°	0.0	0.0	0.0	6.3	6.3	12.5	18.8	25.1	12.5	12.5
82.5°	0.0	0.0	0.0	12.5	6.3	25.1	37.6	31.3	12.5	6.3
85°	0.0	0.0	0.0	6.3	25.1	31.3	31.3	18.8	6.3	6.3
87.5°	0.0	0.0	0.0	6.3	6.3	12.5	18.8	18.8	6.3	6.3
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°
26149.9	0°	26149.9	26149.9	26149.9	26149.9	26149.9	26149.9	26149.9	26149.9	26149.9
26055.9	2.5°	25911.8	26156.1	26375.4	26237.6	26187.4	26087.2	26012.0	25930.6	25924.3
25830.3	5°	25686.3	25918.1	26131.1	25968.2	25980.7	25930.6	25880.5	25861.7	25874.2
25598.5	7.5°	25492.0	25686.3	25918.1	25780.2	25817.8	25786.5	25761.4	25723.8	25780.2
25297.8	10°	25197.6	25373.0	25642.4	25510.8	25492.0	25460.7	25435.7	25366.7	25398.1
24752.8	12.5°	24552.3	24771.6	25078.6	24928.2	24978.3	24890.6	24853.0	24809.2	24815.4
23806.8	15°	23675.2	23844.4	24157.6	24038.6	24076.2	24019.8	24019.8	24019.8	24063.6
22090.2	17.5°	22146.6	22491.1	22986.1	22835.7	22892.1	22904.6	22892.1	22935.9	22992.3
19646.9	20°	19659.4	20248.3	21150.4	21444.9	21563.9	21570.2	21482.5	21589.0	21701.8
17360.1	22.5°	17372.7	17992.9	18788.6	19596.7	20097.9	20072.9	20085.4	20154.3	20273.3
15324.0	25°	15393.0	15988.1	16708.6	17429.1	18525.4	18751.0	18757.2	18819.9	18913.9
13933.2	27.5°	13964.6	14196.4	14854.2	15580.9	16758.7	17479.2	17441.6	17498.0	17598.2
12191.6	30°	12241.7	13131.3	13281.7	13726.5	14741.4	16063.3	16069.6	16132.2	16232.5
11164.1	32.5°	11132.8	11721.7	12185.3	12197.8	13062.4	14421.9	14691.3	14753.9	14822.8
10099.1	35°	10092.8	10161.7	10788.2	10963.6	11464.8	12811.8	13287.9	13325.5	13438.3
8589.2	37.5°	8733.3	9140.5	9316.0	9942.5	9967.5	11057.6	12003.6	11966.0	12053.7
7392.6	40°	7486.6	7875.0	8319.8	8777.2	8839.8	9654.3	10700.5	10738.1	10775.7
6133.4	42.5°	6183.5	6678.4	7135.8	7442.7	7868.8	8338.6	9334.8	9510.2	9597.9
5256.3	45°	5350.3	5488.1	6033.1	6484.2	6916.5	7135.8	8069.2	8388.8	8445.1
4159.9	47.5°	4216.3	4679.9	5049.5	5431.7	5970.5	6164.7	6841.3	7286.1	7330.0
3088.6	50°	3257.8	3589.8	4097.3	4441.8	5068.3	5174.8	5638.4	6214.8	6271.2
2067.4	52.5°	2330.6	2781.6	3276.6	3608.6	4210.0	4347.9	4692.4	5243.8	5281.3
1585.0	55°	1672.7	1967.2	2374.4	2850.5	3289.1	3596.1	3834.1	4360.4	4410.5
1040.0	57.5°	1140.2	1415.9	1585.0	2061.2	2324.3	2656.3	2850.5	3251.5	3289.1
494.9	60°	545.0	676.6	808.2	1046.2	1215.4	1497.3	1622.6	1785.5	1829.4
300.7	62.5°	350.8	413.5	526.3	626.5	789.4	964.8	1014.9	1152.7	1202.9
187.9	65°	231.8	294.5	413.5	438.5	601.4	739.3	801.9	902.2	958.5
112.8	67.5°	131.6	206.7	307.0	363.4	476.1	607.7	676.6	764.3	814.4
75.2	70°	87.7	169.2	244.3	300.7	375.9	488.7	576.4	651.6	682.9
37.6	72.5°	50.1	106.5	169.2	238.1	300.7	407.2	488.7	551.3	363.4
25.1	75°	31.3	81.4	144.1	200.5	250.6	325.8	394.7	388.4	162.9
18.8	77.5°	25.1	62.6	125.3	169.2	206.7	225.5	281.9	319.5	125.3
12.5	80°	18.8	50.1	112.8	144.1	81.4	162.9	219.3	238.1	87.7
12.5	82.5°	12.5	31.3	94.0	100.2	56.4	119.0	175.4	156.6	62.6
6.3	85°	6.3	18.8	31.3	56.4	50.1	56.4	43.9	62.6	43.9
6.3	87.5°	6.3	12.5	25.1	25.1	25.1	18.8	25.1	25.1	25.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
26149.9
26074.7
26030.8
25936.8
25548.4
24997.1
24082.4
23180.3
21776.9
20292.1
19076.7
17692.2
16407.9
14979.5
13557.3
12160.2
10894.7
9723.2
8583.0
7436.5
6352.6
5350.3
4454.4
3364.3
1879.5
1215.4
958.5
808.2
676.6
294.5
162.9
125.3
94.0
62.6
43.9
25.1
0.0

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