

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: P636664

Luminaire Tested: **IFLD-S-SA6E-940-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636664
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-940-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (96) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30443 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

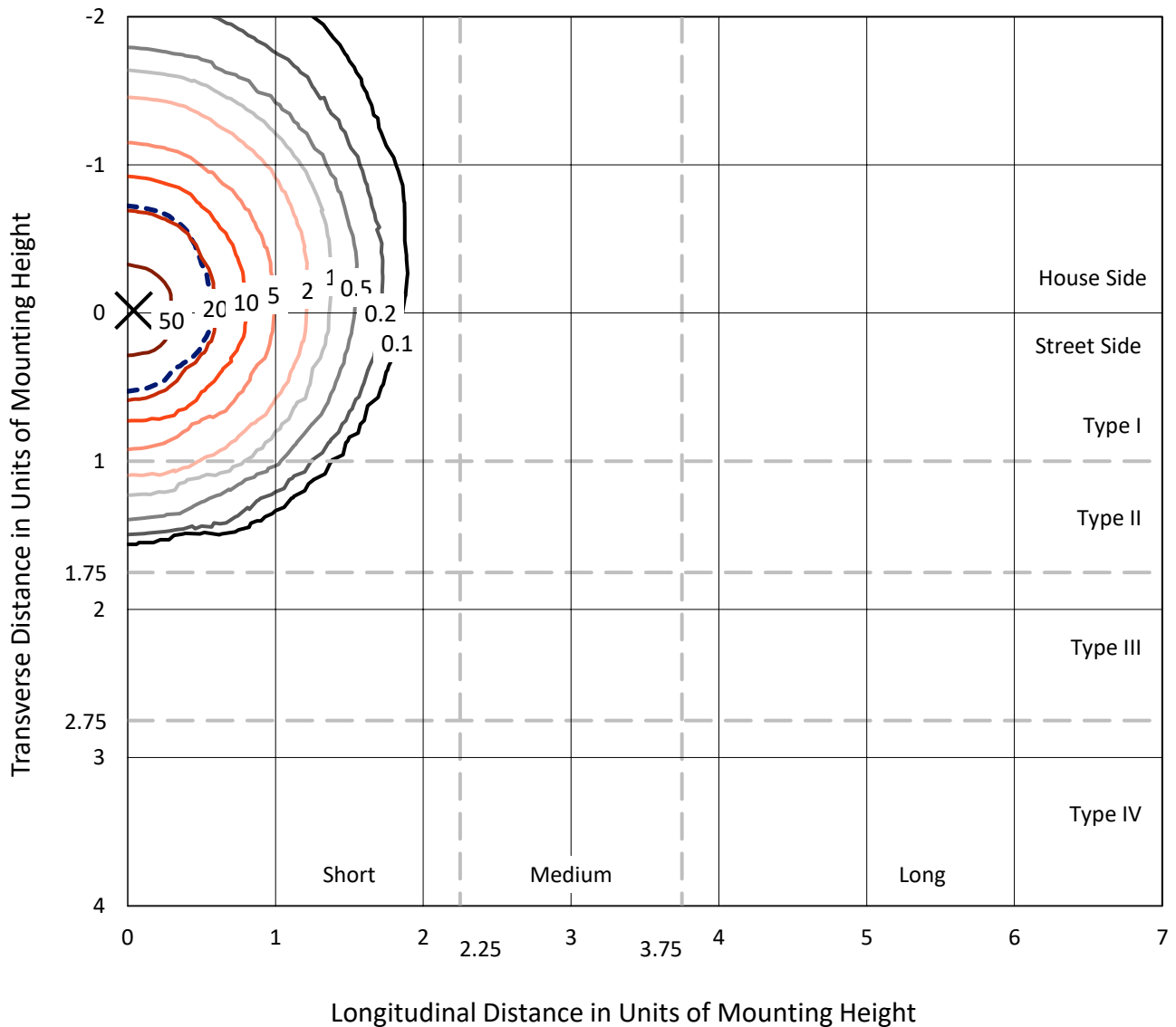
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

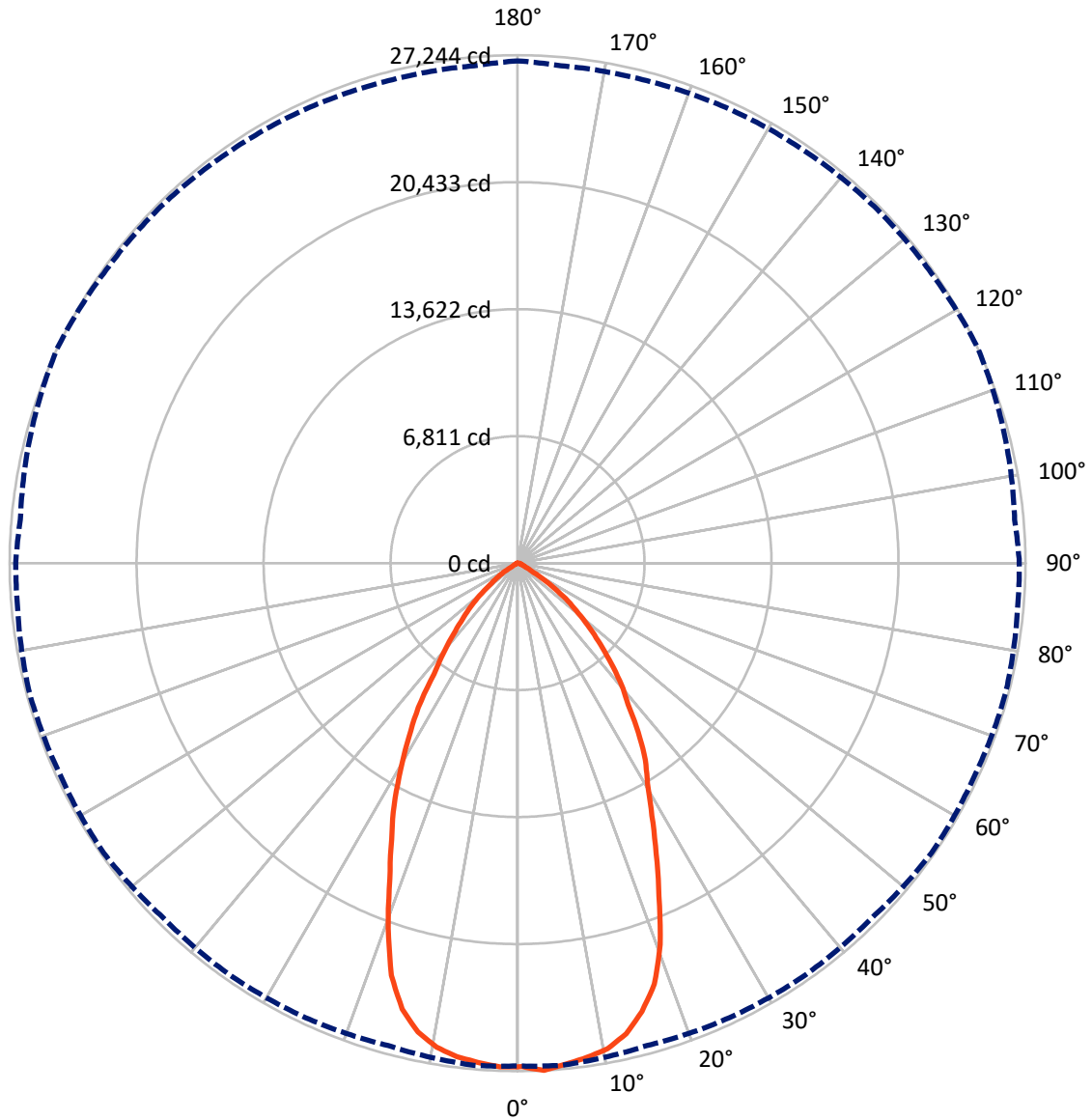
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 67.5 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	17422.2	0.0	17422.2
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	13020.9	0.0	13020.9
	% Fixture	42.8	0.0	42.8
Total	Lumens	30443.0	0.0	30443.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2544.1	8.4
10°-20°	6745.5	22.2
20°-30°	7715.5	25.3
30°-40°	6612.0	21.7
40°-50°	4372.1	14.4
50°-60°	1907.8	6.3
60°-70°	374.8	1.2
70°-80°	135.2	0.4
80°-90°	36.0	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°	30443.0	100.0
0°-180°	30443.0	100.0



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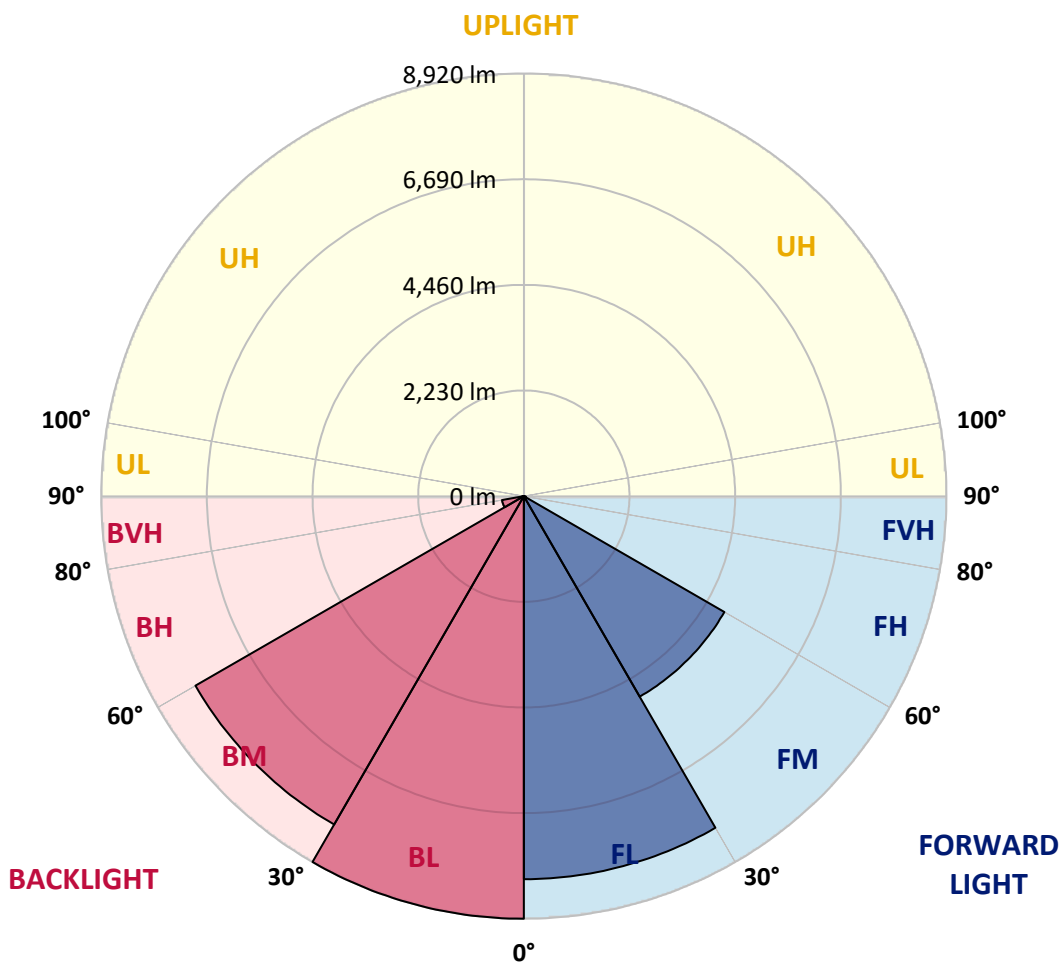
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8085.0	26.6			
FM (30°-60°)	4888.5	16.1			
FH (60°-80°)	41.4	0.1			G0/660
FVH (80°-90°)	6.0	0.0			G0/10
BL (0°-30°)	8920.1	29.3	B5		
BM (30°-60°)	8003.4	26.3	B4/8500		
BH (60°-80°)	468.7	1.5	B1/500		G1/500
BVH (80°-90°)	30.0	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°	27010.6	27010.6	27010.6	27010.6	27010.6	27010.6	27010.6	27010.6	27010.6	27010.6
2.5°	26971.8	27036.5	26790.6	26900.6	26945.9	26887.7	27101.2	27036.5	27088.3	26926.5
5°	26971.8	27036.5	26751.8	26803.6	26816.5	26706.5	26939.5	26861.8	26868.3	26700.0
7.5°	26803.6	26881.2	26622.4	26661.2	26667.7	26577.1	26777.7	26667.7	26628.8	26454.1
10°	26350.6	26395.9	26162.9	26260.0	26350.6	26266.5	26441.2	26318.2	26318.2	26162.9
12.5°	25632.3	25716.4	25457.6	25574.0	25651.7	25554.6	25755.2	25709.9	25716.4	25561.1
15°	24325.1	24033.9	24344.5	24577.5	24583.9	24564.5	24752.2	24706.9	24739.3	24506.3
17.5°	17970.4	17899.2	18261.6	21011.9	23056.8	23335.0	23367.4	23121.5	23011.5	22785.0
20°	16650.3	16702.1	16624.4	16637.4	18248.7	21594.3	21393.7	20785.4	20507.1	20280.6
22.5°	15686.1	15602.0	15550.2	15517.8	15563.1	17743.9	19187.0	18268.1	18119.3	18009.2
25°	14637.8	14598.9	14534.2	14521.3	14495.4	14126.5	16203.8	16287.9	16048.5	15912.6
27.5°	13660.6	13634.7	13563.6	13557.1	13259.4	12366.4	12592.9	14592.5	14527.8	14476.0
30°	12618.8	12567.0	12528.2	12528.2	11628.7	10709.8	10340.9	12722.3	12722.3	12677.0
32.5°	11486.3	11441.0	11454.0	11298.7	10224.4	9383.2	8800.8	10981.6	11661.0	11622.2
35°	7021.2	7008.3	8321.9	10049.7	8787.8	8024.2	7985.4	9396.1	10386.2	10489.8
37.5°	6251.1	6212.3	6231.7	6341.7	7526.0	7221.8	7208.9	7448.3	8839.6	8891.4
40°	5610.5	5584.6	5565.2	5170.5	4795.1	6445.3	6400.0	6244.7	7551.8	7642.4
42.5°	5002.2	4976.3	4976.3	4419.8	3811.5	5299.9	5319.3	5138.1	6367.6	6400.0
45°	4374.5	4355.1	4245.1	3526.8	3352.1	3520.3	4406.9	4199.8	5054.0	5390.5
47.5°	2064.3	2051.4	2970.3	2931.4	2918.5	2815.0	3365.0	3481.5	4012.1	4348.6
50°	1656.6	1643.7	1566.0	1378.4	2400.8	2135.5	2426.7	2679.1	2847.3	3157.9
52.5°	1371.9	1358.9	1197.2	1061.3	1333.1	1559.6	1449.5	1792.5	1786.0	2122.5
55°	899.5	834.8	918.9	867.1	698.9	1132.5	1106.6	1358.9	1326.6	1617.8
57.5°	19.4	19.4	45.3	491.8	440.0	478.9	634.2	776.5	873.6	957.7
60°	6.5	6.5	12.9	25.9	181.2	200.6	245.9	284.7	401.2	498.3
62.5°	0.0	0.0	6.5	12.9	25.9	103.5	116.5	135.9	187.7	258.8
65°	0.0	0.0	0.0	6.5	12.9	25.9	38.8	84.1	116.5	148.8
67.5°	0.0	0.0	0.0	6.5	6.5	12.9	25.9	38.8	51.8	103.5
70°	0.0	0.0	0.0	6.5	6.5	12.9	19.4	25.9	38.8	51.8
72.5°	0.0	0.0	0.0	6.5	6.5	19.4	12.9	19.4	25.9	32.4
75°	0.0	0.0	0.0	6.5	6.5	6.5	12.9	19.4	19.4	25.9
77.5°	0.0	0.0	0.0	6.5	12.9	12.9	12.9	12.9	12.9	19.4
80°	0.0	0.0	0.0	6.5	6.5	12.9	19.4	25.9	12.9	12.9
82.5°	0.0	0.0	0.0	12.9	6.5	25.9	38.8	32.4	12.9	6.5
85°	0.0	0.0	0.0	6.5	25.9	32.4	32.4	19.4	6.5	6.5
87.5°	0.0	0.0	0.0	6.5	6.5	12.9	19.4	19.4	6.5	6.5
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°
27010.6	0°	27010.6	27010.6	27010.6	27010.6	27010.6	27010.6	27010.6	27010.6	27010.6
26913.6	2.5°	26764.7	27017.1	27243.6	27101.2	27049.5	26945.9	26868.3	26784.1	26777.7
26680.6	5°	26531.8	26771.2	26991.2	26823.0	26835.9	26784.1	26732.4	26713.0	26725.9
26441.2	7.5°	26331.2	26531.8	26771.2	26628.8	26667.7	26635.3	26609.4	26570.6	26628.8
26130.6	10°	26027.0	26208.2	26486.5	26350.6	26331.2	26298.8	26272.9	26201.7	26234.1
25567.6	12.5°	25360.5	25587.0	25904.1	25748.8	25800.5	25709.9	25671.1	25625.8	25632.3
24590.4	15°	24454.5	24629.2	24952.8	24829.9	24868.7	24810.4	24810.4	24810.4	24855.7
22817.3	17.5°	22875.6	23231.5	23742.7	23587.4	23645.6	23658.6	23645.6	23690.9	23749.2
20293.6	20°	20306.5	20914.8	21846.6	22150.8	22273.7	22280.2	22189.6	22299.6	22416.1
17931.6	22.5°	17944.5	18585.2	19407.0	20241.8	20759.5	20733.6	20746.6	20817.7	20940.7
15828.5	25°	15899.6	16514.4	17258.6	18002.8	19135.2	19368.2	19374.7	19439.4	19536.4
14391.9	27.5°	14424.2	14663.7	15343.1	16093.8	17310.4	18054.5	18015.7	18074.0	18177.5
12592.9	30°	12644.7	13563.6	13718.9	14178.3	15226.6	16592.1	16598.5	16663.2	16766.8
11531.6	32.5°	11499.3	12107.5	12586.4	12599.4	13492.4	14896.6	15174.9	15239.6	15310.8
10431.5	35°	10425.0	10496.2	11143.3	11324.5	11842.2	13233.5	13725.3	13764.2	13880.6
8872.0	37.5°	9020.8	9441.4	9622.6	10269.7	10295.6	11421.6	12398.7	12359.9	12450.5
7636.0	40°	7733.0	8134.3	8593.7	9066.1	9130.8	9972.1	11052.7	11091.6	11130.4
6335.3	42.5°	6387.0	6898.3	7370.7	7687.7	8127.8	8613.1	9642.0	9823.2	9913.8
5429.3	45°	5526.4	5668.7	6231.7	6697.7	7144.2	7370.7	8334.9	8664.9	8723.1
4296.9	47.5°	4355.1	4834.0	5215.8	5610.5	6167.0	6367.6	7066.5	7526.0	7571.3
3190.3	50°	3365.0	3708.0	4232.1	4588.1	5235.2	5345.2	5824.0	6419.4	6477.6
2135.5	52.5°	2407.3	2873.2	3384.4	3727.4	4348.6	4491.0	4846.9	5416.4	5455.2
1637.2	55°	1727.8	2031.9	2452.6	2944.4	3397.4	3714.4	3960.4	4503.9	4555.7
1074.2	57.5°	1177.8	1462.5	1637.2	2129.0	2400.8	2743.8	2944.4	3358.5	3397.4
511.2	60°	563.0	698.9	834.8	1080.7	1255.4	1546.6	1676.0	1844.3	1889.6
310.6	62.5°	362.4	427.1	543.6	647.1	815.4	996.6	1048.3	1190.7	1242.5
194.1	65°	239.4	304.1	427.1	453.0	621.2	763.6	828.3	931.8	990.1
116.5	67.5°	135.9	213.5	317.1	375.3	491.8	627.7	698.9	789.5	841.3
77.7	70°	90.6	174.7	252.4	310.6	388.3	504.8	595.3	673.0	705.4
38.8	72.5°	51.8	110.0	174.7	245.9	310.6	420.6	504.8	569.5	375.3
25.9	75°	32.4	84.1	148.8	207.1	258.8	336.5	407.7	401.2	168.3
19.4	77.5°	25.9	64.7	129.4	174.7	213.5	233.0	291.2	330.0	129.4
12.9	80°	19.4	51.8	116.5	148.8	84.1	168.3	226.5	245.9	90.6
12.9	82.5°	12.9	32.4	97.1	103.5	58.2	123.0	181.2	161.8	64.7
6.5	85°	6.5	19.4	32.4	58.2	51.8	58.2	45.3	64.7	45.3
6.5	87.5°	6.5	12.9	25.9	25.9	25.9	19.4	25.9	25.9	25.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
27010.6
26933.0
26887.7
26790.6
26389.4
25819.9
24875.2
23943.3
22493.8
20960.1
19704.7
18274.6
16948.0
15472.6
14003.6
12560.5
11253.4
10043.2
8865.5
7681.3
6561.8
5526.4
4601.0
3475.0
1941.3
1255.4
990.1
834.8
698.9
304.1
168.3
129.4
97.1
64.7
45.3
25.9
0.0

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