

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: P637946

Luminaire Tested: **IFLD-L-SA7A-750-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637946
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-750-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26997.4 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

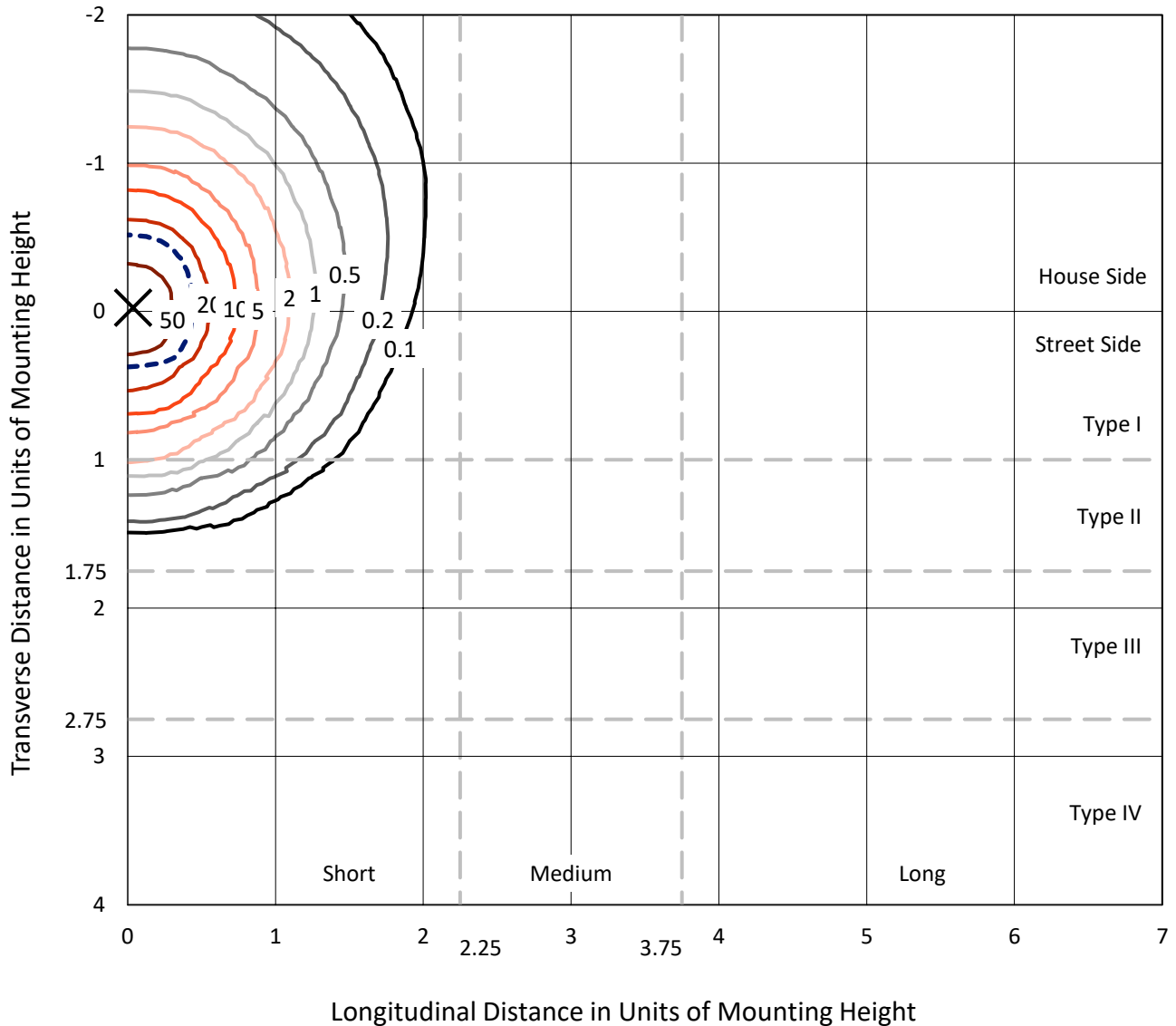
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

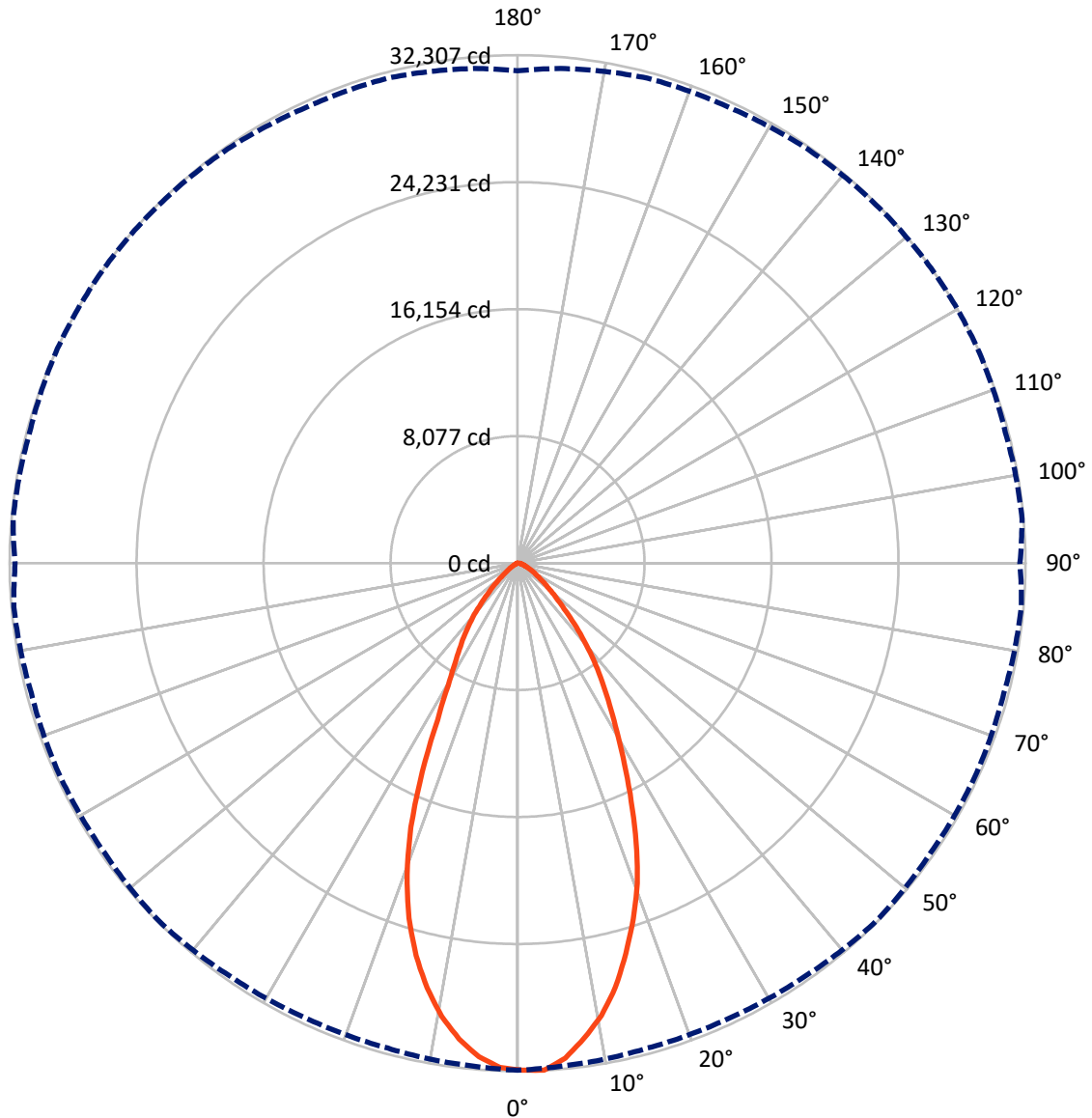
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 80.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15319.4	0.0	15319.4
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	11678.0	0.0	11678.0
	% Fixture	43.3	0.0	43.3
Total	Lumens	26997.4	0.0	26997.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2928.9	10.8
10°-20°	6981.9	25.9
20°-30°	7110.9	26.3
30°-40°	5302.6	19.6
40°-50°	2770.2	10.3
50°-60°	1165.2	4.3
60°-70°	475.9	1.8
70°-80°	200.2	0.7
80°-90°	61.7	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°	26997.4	100.0
0°-180°	26997.4	100.0



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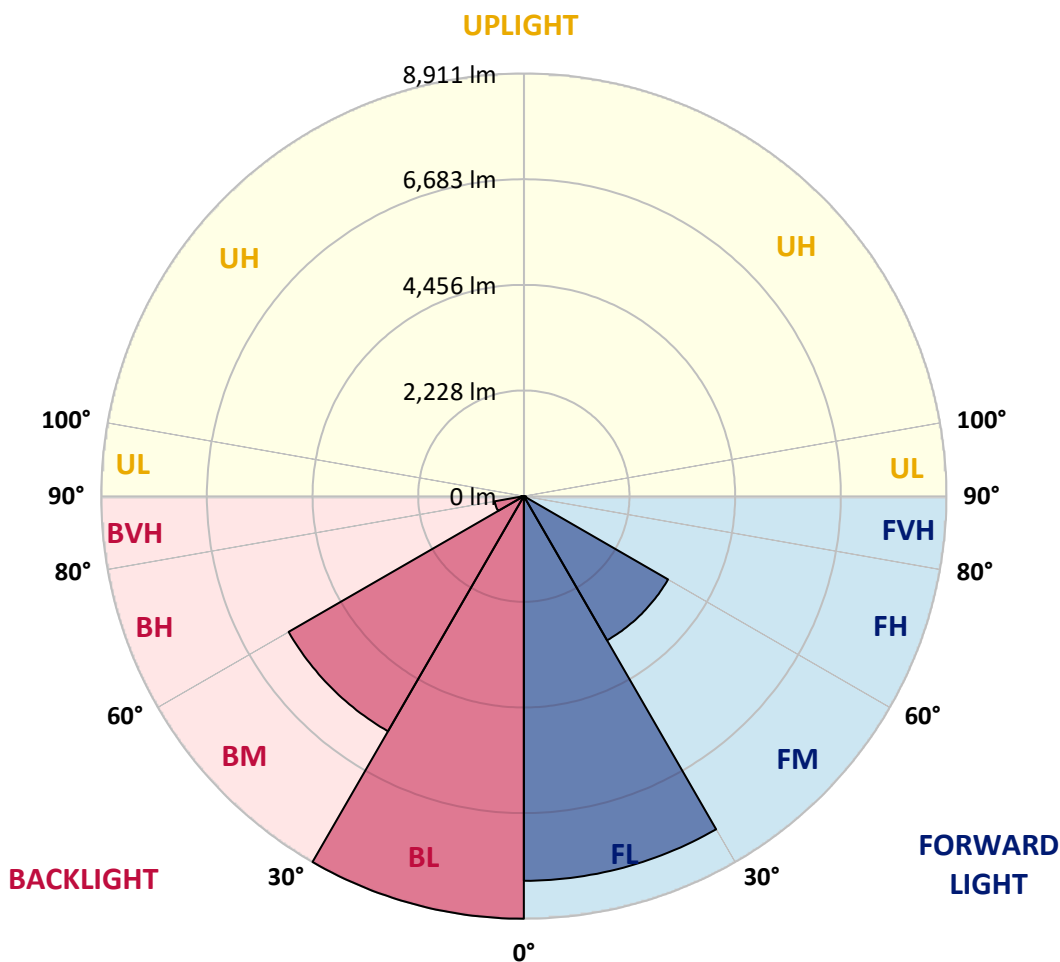
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8110.4	30.0			
FM (30°-60°)	3511.1	13.0			
FH (60°-80°)	50.8	0.2			G0/660
FVH (80°-90°)	5.7	0.0			G0/10
BL (0°-30°)	8911.3	33.0	B5		
BM (30°-60°)	5726.8	21.2	B4/8500		
BH (60°-80°)	625.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	56.0	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	32255.3	32255.3	32255.3	32255.3	32255.3	32255.3	32255.3	32255.3	32255.3	32255.3
2.5°	32258.8	32127.0	31939.8	31922.4	32019.5	32231.1	32095.8	32102.7	32019.5	32161.7
5°	31752.5	31627.6	31499.3	31329.4	31471.6	31561.7	31492.4	31416.1	31308.6	31447.3
7.5°	30795.3	30726.0	30535.2	30458.9	30545.6	30646.2	30497.1	30476.3	30327.2	30507.5
10°	29331.9	29304.1	29116.8	29071.8	29148.1	29300.7	29234.8	29220.9	29127.3	29109.9
12.5°	27812.9	27705.4	27473.0	27459.2	27573.6	27802.5	27625.6	27455.7	27507.7	27552.8
15°	23901.1	23786.6	24362.3	25267.4	25742.5	25725.2	25777.2	25572.6	25510.2	25531.0
17.5°	19000.9	18806.7	19014.7	20415.8	22673.4	23984.3	23623.6	23183.2	22947.4	22791.3
20°	16399.9	16410.3	16372.2	16732.8	18140.8	21130.2	21043.5	20193.8	19885.2	19756.9
22.5°	14818.5	14759.6	14676.3	14790.8	15168.8	16923.6	18099.2	17318.9	17211.4	17069.2
25°	13268.3	13268.3	13167.8	13282.2	13389.7	13414.0	14593.1	14912.2	14704.1	14704.1
27.5°	11926.3	11856.9	11811.8	11863.8	11721.6	11038.5	11187.6	12821.0	12678.8	12592.1
30°	10594.6	10573.8	10497.5	10566.8	10039.7	9269.8	8957.7	10820.0	10969.1	10937.9
32.5°	8746.2	8829.4	9169.2	9276.7	8375.1	7754.3	7456.1	8982.0	9578.5	9554.2
35°	5944.1	6013.4	6401.8	7685.0	6942.8	6498.9	6412.2	7144.0	8125.4	8219.0
37.5°	4733.7	4723.3	4834.3	5063.2	5579.9	5472.4	5448.1	5638.9	6627.2	6668.9
40°	3901.4	3887.6	3884.1	3696.8	3568.5	4549.9	4484.1	4369.6	5226.2	5309.4
42.5°	3145.4	3159.3	3169.7	2760.5	2573.2	3509.6	3471.4	3353.5	4099.1	4196.2
45°	2469.2	2465.7	2486.5	2056.5	2004.5	2243.8	2594.0	2500.4	3093.4	3197.4
47.5°	1279.7	1324.8	1605.7	1591.8	1616.1	1591.8	1962.9	1938.6	2327.0	2493.5
50°	860.0	873.9	898.2	901.7	1272.7	1172.2	1331.7	1508.6	1629.9	1886.6
52.5°	665.8	676.2	613.8	575.7	780.3	867.0	873.9	1043.9	1137.5	1397.6
55°	371.1	416.2	447.4	450.8	430.0	641.6	638.1	773.4	846.2	1019.6
57.5°	48.6	59.0	90.2	291.3	287.8	357.2	447.4	561.8	603.4	745.6
60°	3.5	6.9	10.4	45.1	190.7	208.1	305.2	350.3	419.6	523.7
62.5°	0.0	0.0	3.5	10.4	38.1	121.4	159.5	183.8	246.2	343.3
65°	0.0	0.0	3.5	6.9	13.9	45.1	62.4	100.6	145.7	211.5
67.5°	0.0	0.0	3.5	6.9	10.4	17.3	27.7	45.1	76.3	128.3
70°	0.0	0.0	3.5	6.9	10.4	13.9	20.8	27.7	41.6	69.4
72.5°	0.0	0.0	3.5	3.5	6.9	17.3	17.3	20.8	27.7	38.1
75°	0.0	0.0	3.5	6.9	10.4	17.3	17.3	17.3	20.8	24.3
77.5°	0.0	0.0	3.5	6.9	10.4	17.3	13.9	17.3	17.3	17.3
80°	0.0	0.0	3.5	6.9	10.4	17.3	20.8	17.3	13.9	13.9
82.5°	0.0	0.0	3.5	10.4	10.4	24.3	24.3	24.3	10.4	10.4
85°	0.0	0.0	6.9	10.4	17.3	27.7	27.7	20.8	10.4	6.9
87.5°	0.0	0.0	3.5	6.9	6.9	13.9	20.8	17.3	6.9	3.5
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°
32255.3	0°	32255.3	32255.3	32255.3	32255.3	32255.3	32255.3	32255.3	32255.3	32255.3
31953.6	2.5°	32210.3	32123.6	32286.5	32307.4	32238.0	32151.3	31950.2	31932.8	31582.6
31246.2	5°	31599.9	31457.7	31561.7	31631.1	31606.8	31513.2	31430.0	31353.7	31038.1
30098.3	7.5°	30462.4	30410.4	30458.9	30511.0	30611.5	30511.0	30476.3	30396.5	30084.4
28967.7	10°	29200.1	29103.0	29286.8	29262.5	29234.8	29207.0	29061.4	29075.2	28707.6
27428.0	12.5°	27649.9	27486.9	27663.8	27684.6	27663.8	27566.7	27403.7	27473.0	27136.7
25347.2	15°	25565.7	25548.3	25676.7	25759.9	25818.8	25714.8	25659.3	25694.0	25492.8
22669.9	17.5°	23006.3	23231.8	23651.4	23793.6	23797.0	23904.5	23873.3	23831.7	23682.6
19704.9	20°	19996.2	20429.7	21074.7	21737.1	21927.8	21837.6	21796.0	21872.3	21650.4
16920.1	22.5°	17218.3	17589.4	18338.5	19306.0	19864.4	19919.9	19909.5	19843.6	19756.9
14690.2	25°	14860.1	15189.6	15907.5	16791.8	17863.4	18022.9	18029.8	18009.0	17932.7
12668.4	27.5°	12869.5	13268.3	13663.7	14454.4	15595.3	16254.2	16171.0	16146.7	16119.0
10962.2	30°	11066.2	11569.1	11940.1	12432.6	13455.6	14346.9	14433.6	14392.0	14326.1
9550.7	32.5°	9637.4	9935.7	10407.3	10740.2	11475.4	12484.6	12817.5	12786.3	12727.4
8278.0	35°	8395.9	8513.8	8884.9	9255.9	9744.9	10722.9	11215.3	11146.0	11135.6
6745.1	37.5°	6915.1	7310.4	7515.0	7889.6	8232.9	8992.4	9672.1	9640.9	9644.3
5423.9	40°	5583.4	5812.3	6218.0	6533.6	6849.2	7404.1	8160.1	8180.9	8173.9
4199.7	42.5°	4286.4	4508.3	4934.9	5278.2	5559.1	5902.4	6623.8	6648.0	6679.3
3270.3	45°	3346.6	3488.8	3800.9	4158.1	4456.3	4664.4	5212.3	5368.4	5371.8
2535.1	47.5°	2597.5	2760.5	2982.4	3325.8	3617.1	3766.2	4165.0	4376.5	4366.1
1945.5	50°	2039.2	2188.3	2368.6	2639.1	2954.7	3072.6	3367.4	3575.4	3565.0
1466.9	52.5°	1560.6	1751.3	1910.8	2118.9	2427.6	2528.1	2739.7	2979.0	2944.3
1075.1	55°	1182.6	1376.8	1525.9	1699.3	1980.2	2108.5	2254.2	2444.9	2451.8
832.3	57.5°	891.3	1092.4	1227.7	1404.5	1616.1	1758.2	1869.2	2073.8	2070.4
568.7	60°	638.1	811.5	974.5	1158.3	1321.3	1484.3	1560.6	1754.8	1761.7
402.3	62.5°	461.2	624.2	780.3	939.8	1085.5	1245.0	1314.4	1466.9	1487.7
263.6	65°	322.5	437.0	617.3	738.7	901.7	1019.6	1109.7	1241.5	1265.8
156.1	67.5°	208.1	315.6	489.0	596.5	745.6	846.2	939.8	1043.9	1075.1
100.6	70°	124.8	239.3	364.1	478.6	613.8	704.0	794.2	884.3	901.7
48.6	72.5°	79.8	166.5	263.6	388.4	492.4	589.6	669.3	735.2	683.2
31.2	75°	45.1	114.4	208.1	305.2	398.8	492.4	558.3	593.0	475.1
20.8	77.5°	27.7	83.2	169.9	246.2	308.6	395.3	437.0	457.8	339.9
13.9	80°	17.3	62.4	142.2	201.1	201.1	291.3	339.9	357.2	246.2
10.4	82.5°	13.9	45.1	111.0	152.6	135.2	218.5	267.0	270.5	173.4
6.9	85°	10.4	34.7	69.4	100.6	93.6	152.6	156.1	173.4	114.4
6.9	87.5°	6.9	20.8	41.6	59.0	52.0	72.8	83.2	93.6	62.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
32255.3
31308.6
30784.9
30018.5
28582.8
27039.6
25250.1
23460.6
21490.8
19590.4
17676.1
15956.0
14242.8
12571.3
11021.1
9533.4
8052.6
6575.2
5281.7
4328.0
3565.0
2947.8
2451.8
2063.4
1744.4
1480.8
1258.9
1071.6
887.8
634.6
450.8
319.1
228.9
159.5
104.0
55.5
0.0

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