

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: P637943

Luminaire Tested: **IFLD-M-SA4C-750-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637943
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-750-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24523 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

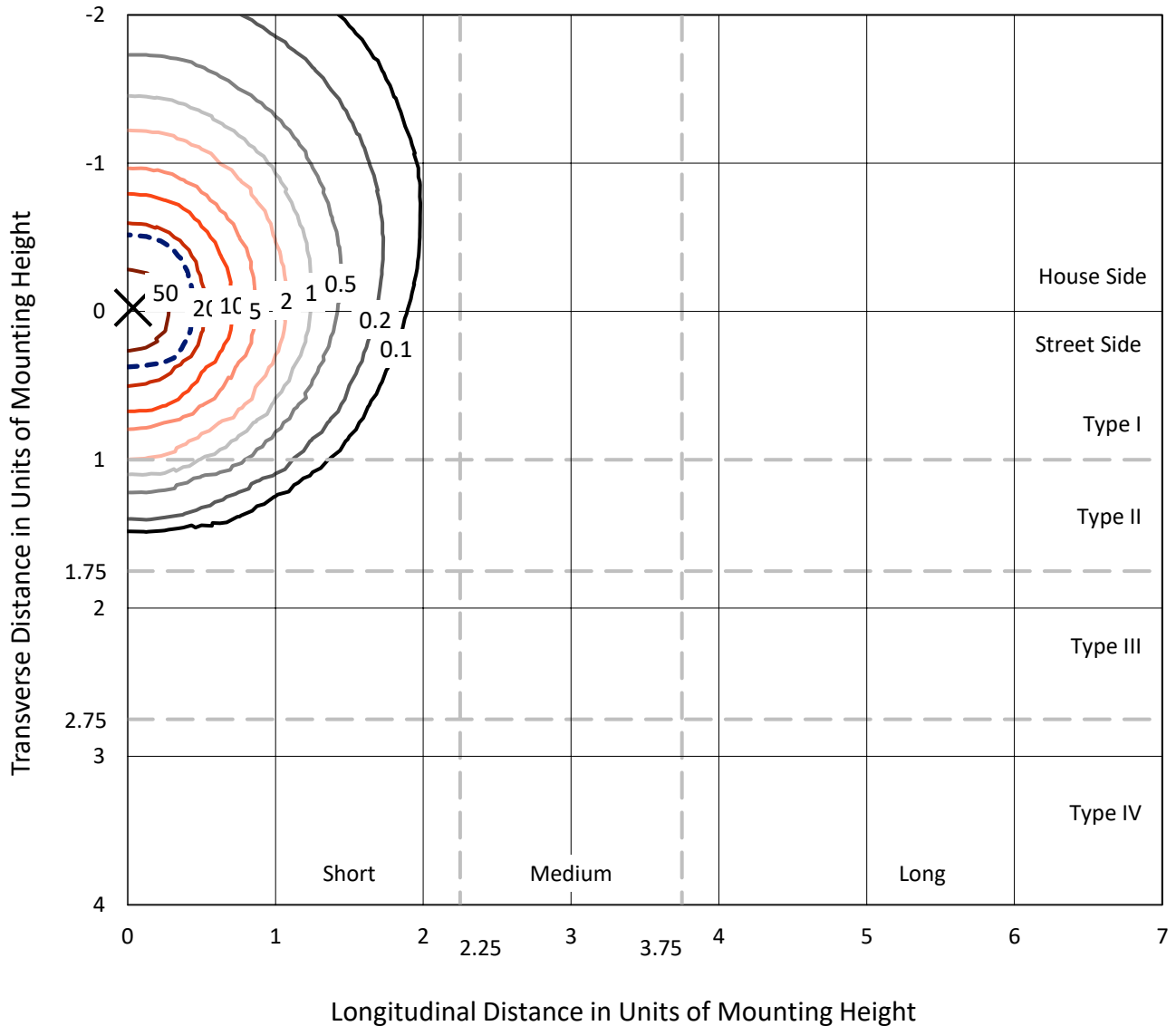
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

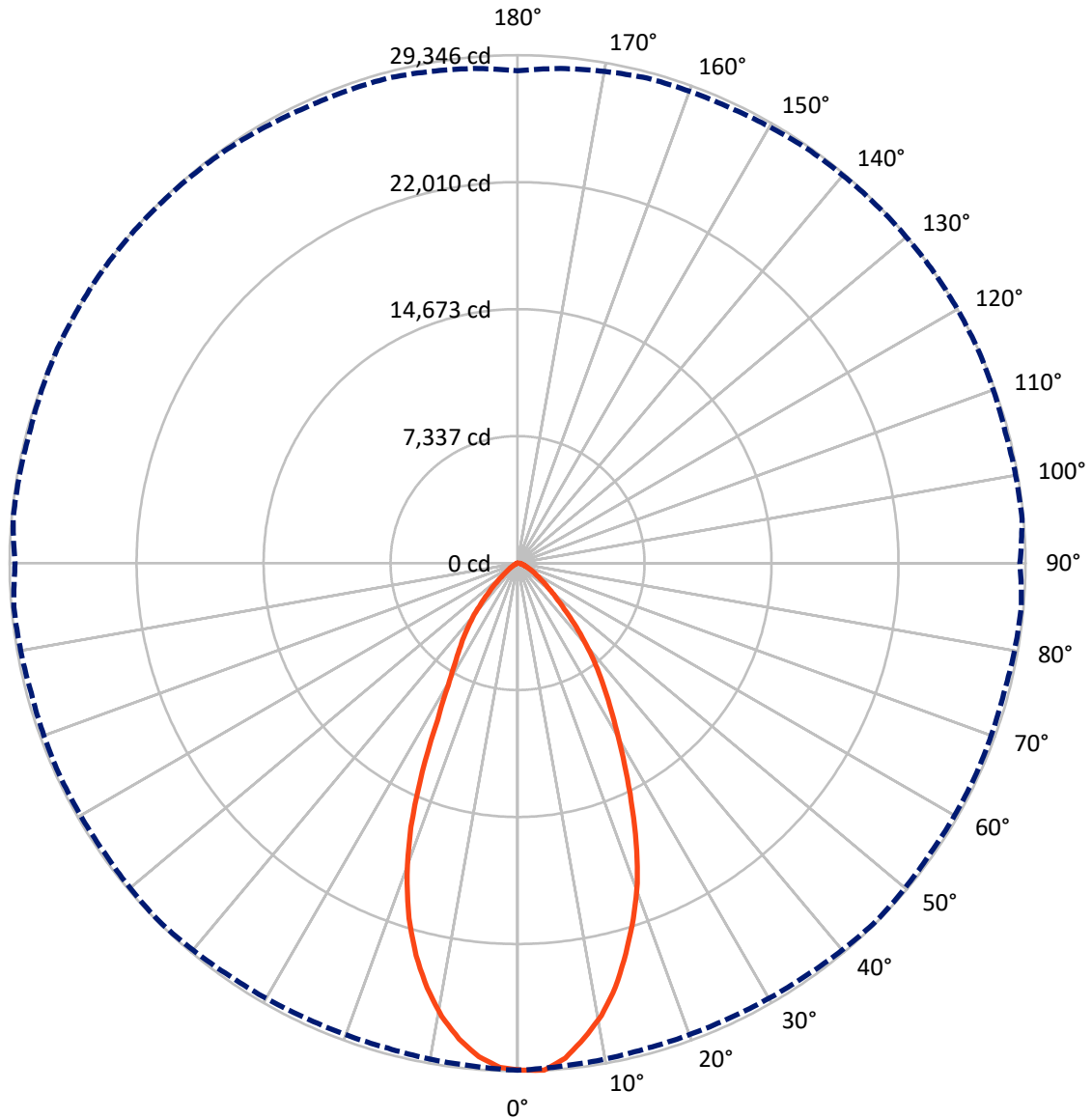
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 73.2 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	13915.3	0.0	13915.3
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	10607.7	0.0	10607.7
	% Fixture	43.3	0.0	43.3
Total	Lumens	24523.0	0.0	24523.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2660.5	10.8
10°-20°	6341.9	25.9
20°-30°	6459.1	26.3
30°-40°	4816.6	19.6
40°-50°	2516.3	10.3
50°-60°	1058.4	4.3
60°-70°	432.3	1.8
70°-80°	181.9	0.7
80°-90°	56.1	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°	24523.0	100.0
0°-180°	24523.0	100.0



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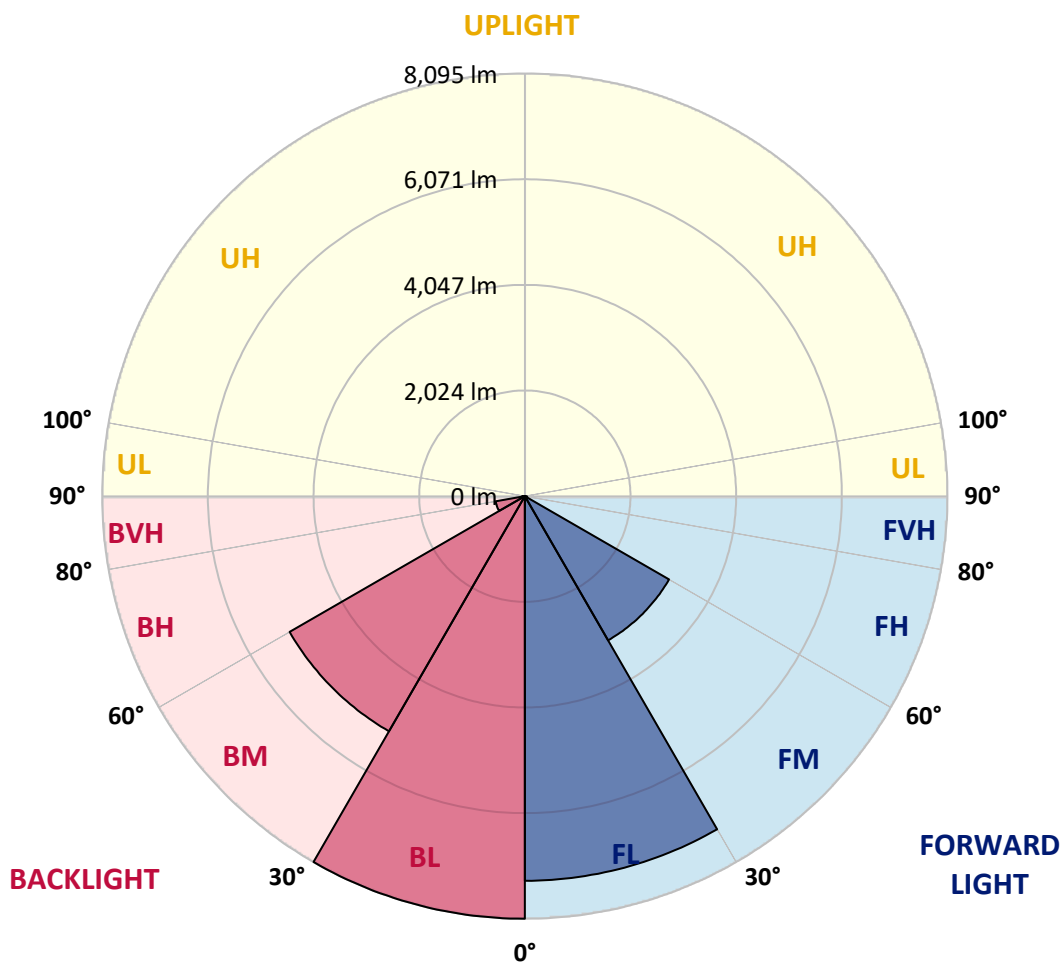
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7367.0	30.0			
FM (30°-60°)	3189.3	13.0			
FH (60°-80°)	46.2	0.2			G0/660
FVH (80°-90°)	5.2	0.0			G0/10
BL (0°-30°)	8094.5	33.0	B5		
BM (30°-60°)	5201.9	21.2	B4/8500		
BH (60°-80°)	568.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	50.8	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°	29299.0	29299.0	29299.0	29299.0	29299.0	29299.0	29299.0	29299.0	29299.0	29299.0
2.5°	29302.1	29182.4	29012.3	28996.6	29084.8	29276.9	29154.1	29160.4	29084.8	29213.9
5°	28842.2	28728.8	28612.3	28457.9	28587.1	28669.0	28606.0	28536.7	28439.0	28565.0
7.5°	27972.8	27909.8	27736.5	27667.2	27746.0	27837.3	27701.9	27683.0	27547.5	27711.3
10°	26643.5	26618.3	26448.2	26407.2	26476.5	26615.1	26555.3	26542.7	26457.6	26441.9
12.5°	25263.7	25166.1	24955.0	24942.4	25046.4	25254.3	25093.6	24939.3	24986.5	25027.5
15°	21710.4	21606.5	22129.4	22951.6	23383.1	23367.4	23414.6	23228.8	23172.1	23191.0
17.5°	17259.3	17082.9	17271.9	18544.6	20595.3	21786.0	21458.4	21058.3	20844.1	20702.4
20°	14896.8	14906.2	14871.6	15199.2	16478.1	19193.5	19114.7	18343.0	18062.6	17946.1
22.5°	13460.3	13406.8	13331.2	13435.1	13778.5	15372.4	16440.3	15731.5	15633.9	15504.7
25°	12052.2	12052.2	11960.9	12064.8	12162.5	12184.5	13255.6	13545.4	13356.4	13356.4
27.5°	10833.2	10770.2	10729.2	10776.5	10647.3	10026.7	10162.2	11645.9	11516.7	11438.0
30°	9623.5	9604.6	9535.3	9598.3	9119.5	8420.2	8136.7	9828.3	9963.7	9935.4
32.5°	7944.5	8020.1	8328.8	8426.5	7607.5	7043.6	6772.7	8158.7	8700.5	8678.5
35°	5399.3	5462.3	5815.1	6980.6	6306.5	5903.3	5824.5	6489.2	7380.7	7465.7
37.5°	4299.9	4290.4	4391.2	4599.1	5068.5	4970.8	4948.8	5122.0	6019.8	6057.6
40°	3543.9	3531.3	3528.1	3358.0	3241.4	4132.9	4073.1	3969.1	4747.2	4822.8
42.5°	2857.1	2869.7	2879.2	2507.5	2337.4	3187.9	3153.2	3046.1	3723.4	3811.6
45°	2242.9	2239.7	2258.6	1868.0	1820.8	2038.1	2356.3	2271.2	2809.9	2904.4
47.5°	1162.4	1203.3	1458.5	1445.9	1467.9	1445.9	1783.0	1760.9	2113.7	2264.9
50°	781.2	793.8	815.9	819.0	1156.1	1064.7	1209.6	1370.3	1480.5	1713.6
52.5°	604.8	614.3	557.6	522.9	708.8	787.5	793.8	948.2	1033.2	1269.5
55°	337.1	378.0	406.4	409.5	390.6	582.8	579.6	702.5	768.6	926.1
57.5°	44.1	53.6	81.9	264.6	261.5	324.5	406.4	510.3	548.1	677.3
60°	3.2	6.3	9.5	41.0	173.3	189.0	277.2	318.2	381.2	475.7
62.5°	0.0	0.0	3.2	9.5	34.7	110.3	144.9	167.0	223.7	311.9
65°	0.0	0.0	3.2	6.3	12.6	41.0	56.7	91.4	132.3	192.2
67.5°	0.0	0.0	3.2	6.3	9.5	15.8	25.2	41.0	69.3	116.6
70°	0.0	0.0	3.2	6.3	9.5	12.6	18.9	25.2	37.8	63.0
72.5°	0.0	0.0	3.2	3.2	6.3	15.8	15.8	18.9	25.2	34.7
75°	0.0	0.0	3.2	6.3	9.5	15.8	15.8	15.8	18.9	22.1
77.5°	0.0	0.0	3.2	6.3	9.5	15.8	12.6	15.8	15.8	15.8
80°	0.0	0.0	3.2	6.3	9.5	15.8	18.9	15.8	12.6	12.6
82.5°	0.0	0.0	3.2	9.5	9.5	22.1	22.1	22.1	9.5	9.5
85°	0.0	0.0	6.3	9.5	15.8	25.2	25.2	18.9	9.5	6.3
87.5°	0.0	0.0	3.2	6.3	6.3	12.6	18.9	15.8	6.3	3.2
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°
29299.0	0°	29299.0	29299.0	29299.0	29299.0	29299.0	29299.0	29299.0	29299.0	29299.0
29024.9	2.5°	29258.0	29179.3	29327.3	29346.2	29283.2	29204.5	29021.8	29006.0	28687.9
28382.3	5°	28703.6	28574.5	28669.0	28732.0	28709.9	28624.9	28549.3	28480.0	28193.3
27339.6	7.5°	27670.4	27623.1	27667.2	27714.5	27805.8	27714.5	27683.0	27610.5	27327.0
26312.7	10°	26523.8	26435.6	26602.5	26580.5	26555.3	26530.1	26397.8	26410.4	26076.4
24914.1	12.5°	25115.7	24967.6	25128.3	25147.2	25128.3	25040.1	24892.0	24955.0	24649.5
23024.0	15°	23222.5	23206.7	23323.3	23398.9	23452.4	23357.9	23307.5	23339.0	23156.3
20592.1	17.5°	20897.7	21102.5	21483.6	21612.8	21615.9	21713.6	21685.2	21647.4	21512.0
17898.8	20°	18163.4	18557.2	19143.1	19744.8	19918.0	19836.1	19798.3	19867.6	19666.0
15369.3	22.5°	15640.2	15977.3	16657.7	17536.5	18043.7	18094.1	18084.7	18024.8	17946.1
13343.8	25°	13498.1	13797.4	14449.5	15252.7	16226.1	16371.0	16377.3	16358.4	16289.1
11507.3	27.5°	11690.0	12052.2	12411.4	13129.6	14166.0	14764.5	14688.9	14666.8	14641.6
9957.4	30°	10051.9	10508.7	10845.8	11293.1	12222.3	13031.9	13110.7	13072.9	13013.0
8675.3	32.5°	8754.1	9025.0	9453.4	9755.8	10423.6	11340.3	11642.7	11614.4	11560.8
7519.3	35°	7626.4	7733.5	8070.5	8407.6	8851.8	9740.1	10187.4	10124.4	10114.9
6126.9	37.5°	6281.3	6640.4	6826.2	7166.5	7478.3	8168.2	8785.6	8757.2	8760.4
4926.7	40°	5071.6	5279.6	5648.1	5934.8	6221.4	6725.4	7412.2	7431.1	7424.8
3814.8	42.5°	3893.5	4095.1	4482.6	4794.4	5049.6	5361.5	6016.7	6038.7	6067.1
2970.5	45°	3039.8	3169.0	3452.5	3777.0	4047.9	4236.9	4734.6	4876.3	4879.5
2302.7	47.5°	2359.4	2507.5	2709.1	3020.9	3285.5	3421.0	3783.3	3975.4	3966.0
1767.2	50°	1852.3	1987.7	2151.5	2397.2	2683.9	2791.0	3058.7	3247.7	3238.3
1332.5	52.5°	1417.5	1590.8	1735.7	1924.7	2205.1	2296.4	2488.6	2705.9	2674.4
976.5	55°	1074.2	1250.6	1386.0	1543.5	1798.7	1915.3	2047.6	2220.8	2227.1
756.0	57.5°	809.6	992.3	1115.1	1275.8	1467.9	1597.1	1697.9	1883.8	1880.6
516.6	60°	579.6	737.1	885.2	1052.1	1200.2	1348.2	1417.5	1593.9	1600.2
365.4	62.5°	419.0	567.0	708.8	853.7	986.0	1130.9	1193.9	1332.5	1351.4
239.4	65°	293.0	396.9	560.7	671.0	819.0	926.1	1008.0	1127.7	1149.8
141.8	67.5°	189.0	286.7	444.2	541.8	677.3	768.6	853.7	948.2	976.5
91.4	70°	113.4	217.4	330.8	434.7	557.6	639.5	721.4	803.3	819.0
44.1	72.5°	72.5	151.2	239.4	352.8	447.3	535.5	608.0	667.8	620.6
28.4	75°	41.0	104.0	189.0	277.2	362.3	447.3	507.2	538.7	431.6
18.9	77.5°	25.2	75.6	154.4	223.7	280.4	359.1	396.9	415.8	308.7
12.6	80°	15.8	56.7	129.2	182.7	182.7	264.6	308.7	324.5	223.7
9.5	82.5°	12.6	41.0	100.8	138.6	122.9	198.5	242.6	245.7	157.5
6.3	85°	9.5	31.5	63.0	91.4	85.1	138.6	141.8	157.5	104.0
6.3	87.5°	6.3	18.9	37.8	53.6	47.3	66.2	75.6	85.1	56.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
<hr/>
29299.0
28439.0
27963.3
27267.2
25963.0
24561.2
22935.8
21310.4
19521.1
17794.9
16056.0
14493.6
12937.4
11419.1
10011.0
8659.6
7314.5
5972.6
4797.6
3931.3
3238.3
2677.6
2227.1
1874.3
1584.5
1345.1
1143.5
973.4
806.4
576.5
409.5
289.8
207.9
144.9
94.5
50.4
0.0

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