

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: P636466

Luminaire Tested: **IFLD-M-SA4E-930-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636466
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-930-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19173.6 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 314.8
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



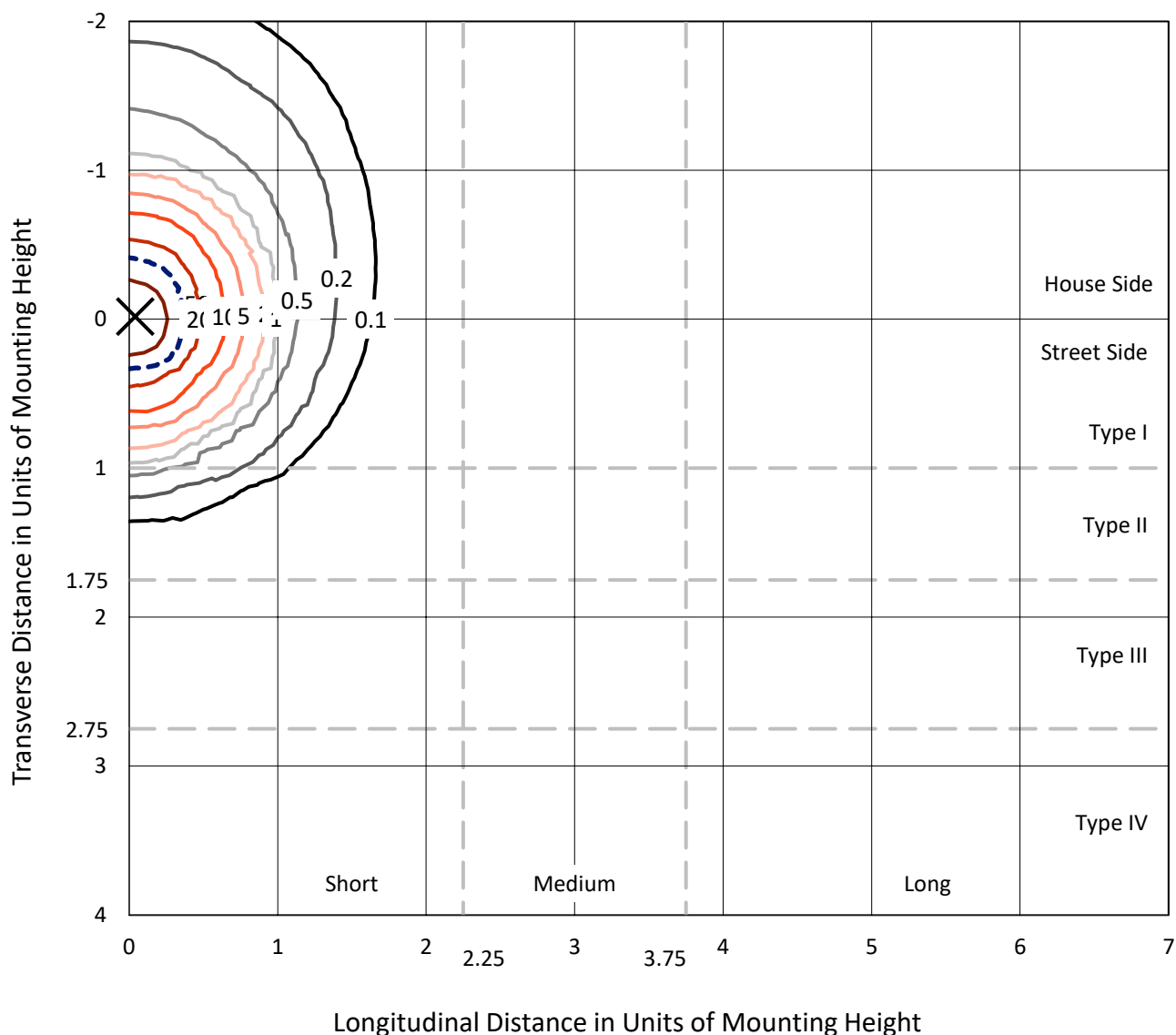
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

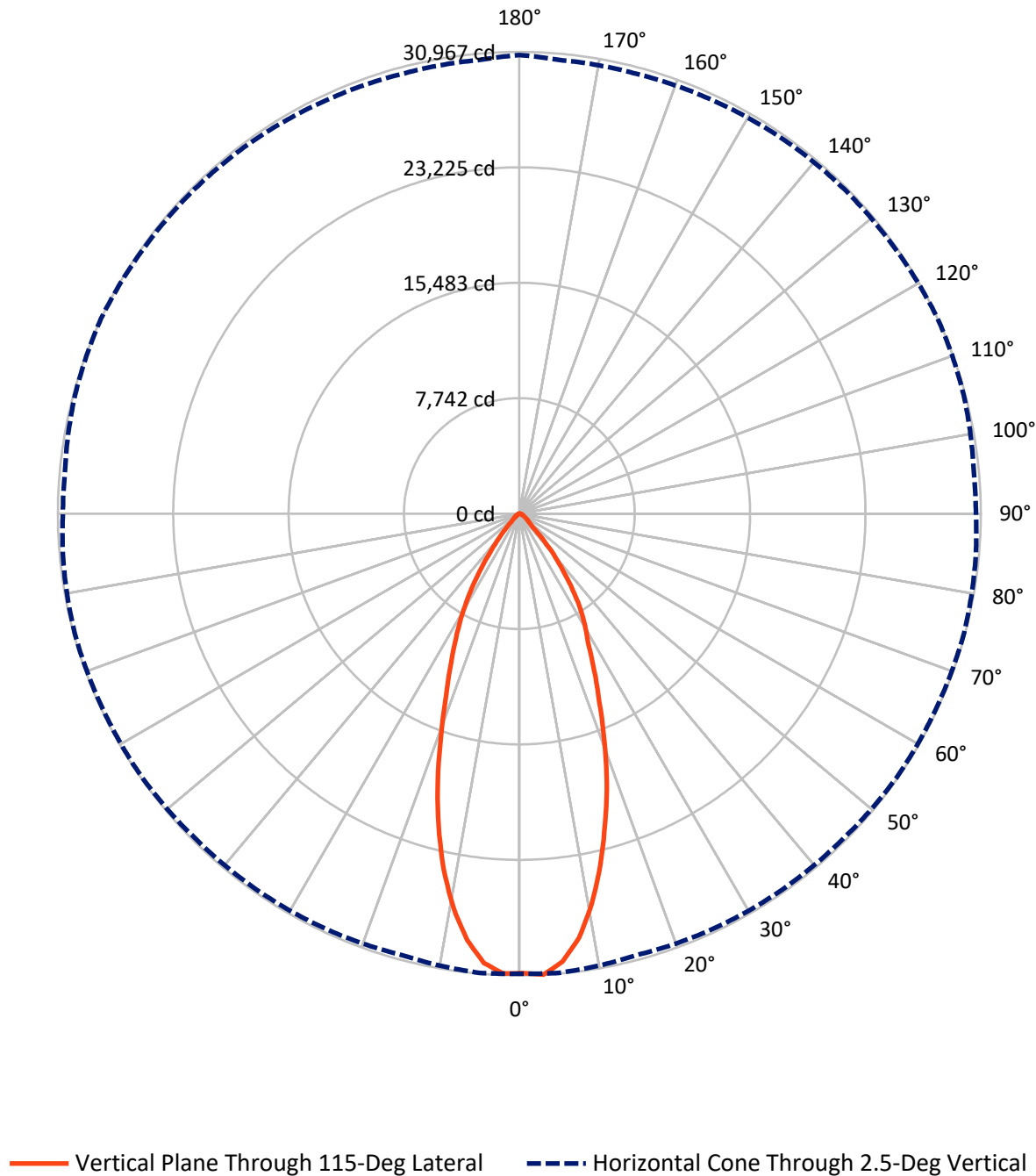


Based on 20 foot mounting height. Maximum calculated value = 77.1 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10581.6	0.0	10581.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	8592.0	0.0	8592.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	19173.6	0.0	19173.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2764.5	14.4
10°-20°	5842.6	30.5
20°-30°	5273.3	27.5
30°-40°	3489.7	18.2
40°-50°	1045.4	5.5
50°-60°	419.3	2.2
60°-70°	217.1	1.1
70°-80°	94.3	0.5
80°-90°	27.4	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°	19173.6	100.0
0°-180°	19173.6	100.0

Coefficient of Utilization



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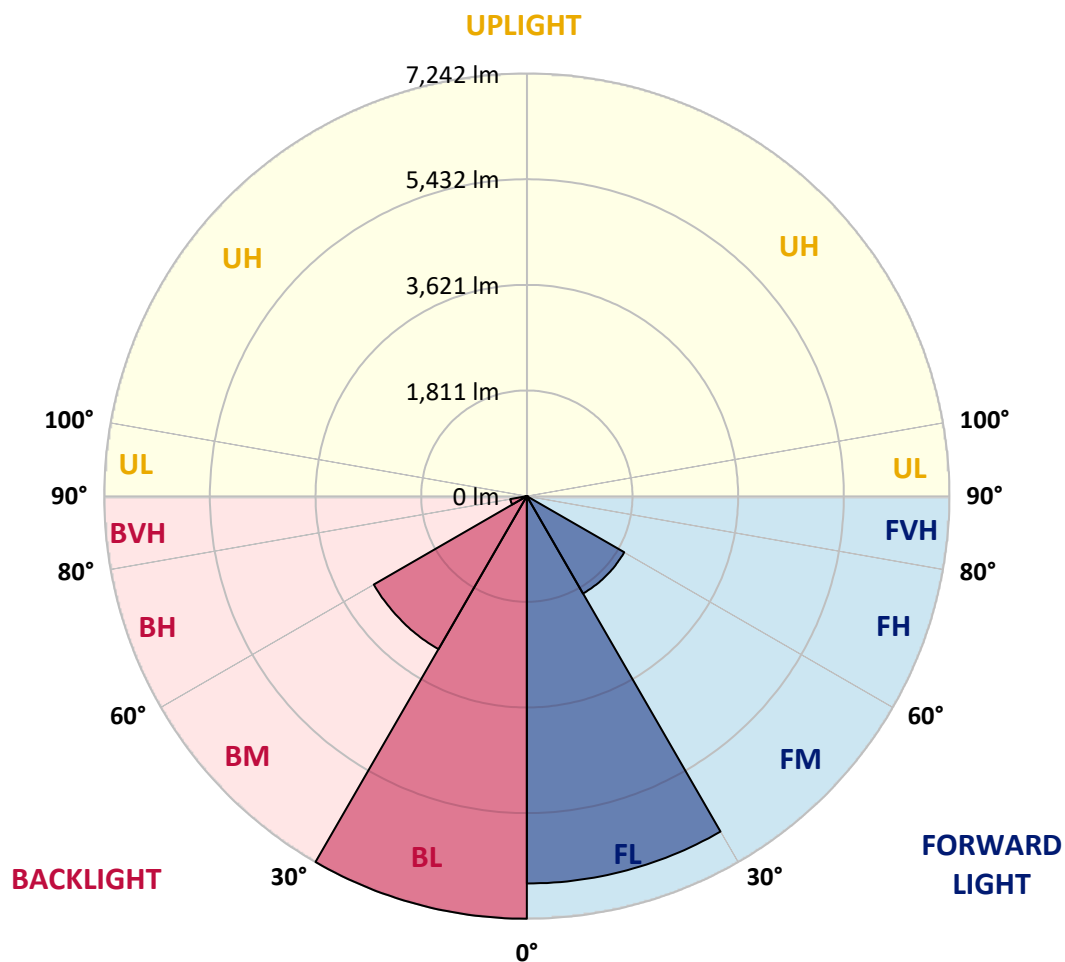
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6638.0	34.6			
FM	(30°-60°)	1926.2	10.0			
FH	(60°-80°)	23.9	0.1			G0/660
FVH	(80°-90°)	3.9	0.0			G0/10
BL	(0°-30°)	7242.3	37.8	B5		
BM	(30°-60°)	3028.2	15.8	B3/5000		
BH	(60°-80°)	287.6	1.5	B1/500		G1/500
BVH	(80°-90°)	23.5	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°	30821.5	30821.5	30821.5	30821.5	30821.5	30821.5	30821.5	30821.5	30821.5	30821.5
2.5°	30860.8	30915.7	30641.2	30735.3	30774.5	30786.2	30884.3	30868.6	30896.0	30751.0
5°	30452.9	30347.1	30143.2	30147.1	30135.3	30025.5	30249.0	30233.3	30186.3	30013.7
7.5°	29064.8	29217.7	28833.4	28825.6	28817.7	28684.4	28978.5	28798.1	28837.4	28590.3
10°	27033.5	27053.2	26712.0	26680.6	26708.1	26535.5	26876.7	26806.1	26880.6	26621.8
12.5°	24543.5	24653.3	24276.9	24222.0	24331.8	24088.6	24363.1	24398.4	24288.6	24253.3
15°	19249.7	19539.9	20253.6	21343.7	21626.1	21422.1	21641.7	21637.8	21684.9	21418.2
17.5°	14665.7	14693.2	14524.6	15046.1	18065.5	19045.8	19092.9	18720.4	18438.0	18340.0
20°	12803.1	12897.2	12744.3	12787.4	13269.7	16144.1	16253.9	15693.1	15210.8	15171.6
22.5°	11320.8	11379.7	11269.9	11305.2	11328.7	11665.9	13575.6	13081.5	12850.2	12673.7
25°	10066.0	10066.0	10007.2	10019.0	9995.4	9497.4	10477.8	11042.4	10909.1	10846.4
27.5°	8921.0	8936.7	8862.2	8905.3	8619.1	7815.2	7697.5	9364.1	9222.9	9109.2
30°	7834.8	7885.8	7815.2	7838.7	7215.2	6556.4	6219.2	7811.3	7987.7	7956.3
32.5°	5897.7	6129.0	6697.6	6721.1	5874.1	5368.3	5219.3	6270.2	6940.7	6881.9
35°	3654.7	3642.9	3666.4	4795.8	4505.6	4160.5	4215.4	4736.9	5493.8	5466.3
37.5°	2788.1	2784.1	2827.3	2713.6	2952.8	3156.7	3199.8	3199.8	4011.5	4015.4
40°	2113.6	2097.9	2094.0	1913.6	1603.8	2368.5	2297.9	2239.1	2788.1	2846.9
42.5°	1348.9	1396.0	1360.7	1164.6	1047.0	1294.0	1443.0	1396.0	1721.5	1764.6
45°	752.9	752.9	721.5	611.7	607.8	654.9	823.5	768.6	882.3	941.1
47.5°	364.7	356.8	392.1	482.3	501.9	486.2	588.2	611.7	666.6	721.5
50°	294.1	294.1	278.4	251.0	415.7	400.0	435.3	466.6	498.0	545.1
52.5°	247.0	247.0	227.4	211.8	239.2	305.9	309.8	368.6	364.7	431.3
55°	125.5	129.4	184.3	184.3	160.8	251.0	254.9	298.0	305.9	360.8
57.5°	11.8	15.7	23.5	113.7	125.5	137.2	192.1	219.6	254.9	278.4
60°	3.9	3.9	7.8	15.7	74.5	94.1	121.6	145.1	176.5	231.4
62.5°	0.0	0.0	3.9	7.8	15.7	58.8	66.7	74.5	105.9	145.1
65°	0.0	0.0	3.9	3.9	7.8	19.6	27.4	47.1	66.7	90.2
67.5°	0.0	0.0	3.9	3.9	7.8	11.8	15.7	23.5	31.4	58.8
70°	0.0	0.0	3.9	3.9	7.8	11.8	11.8	15.7	19.6	27.4
72.5°	0.0	0.0	3.9	3.9	7.8	15.7	11.8	11.8	15.7	19.6
75°	0.0	0.0	3.9	3.9	7.8	11.8	11.8	11.8	11.8	11.8
77.5°	0.0	0.0	3.9	3.9	7.8	11.8	11.8	11.8	7.8	7.8
80°	0.0	0.0	3.9	3.9	7.8	11.8	15.7	15.7	7.8	7.8
82.5°	0.0	0.0	3.9	7.8	7.8	19.6	23.5	19.6	7.8	3.9
85°	0.0	0.0	3.9	3.9	11.8	19.6	19.6	11.8	7.8	3.9
87.5°	0.0	0.0	0.0	3.9	3.9	7.8	11.8	11.8	3.9	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°
30821.5	0°	30821.5	30821.5	30821.5	30821.5	30821.5	30821.5	30821.5	30821.5	30821.5
30633.3	2.5°	30617.6	30856.8	30966.6	30852.9	30798.0	30719.6	30605.9	30527.4	30543.1
29919.6	5°	29853.0	30103.9	30190.2	30092.2	30009.8	29966.7	29947.1	29986.3	30088.3
28484.4	7.5°	28476.6	28637.4	28731.5	28684.4	28570.7	28700.1	28735.4	28711.9	28860.9
26543.4	10°	26551.2	26727.7	26641.4	26661.0	26527.7	26594.4	26574.8	26661.0	26810.0
24225.9	12.5°	24069.0	24237.7	24171.0	24159.2	24018.1	24143.5	24065.1	24159.2	24355.3
21308.4	15°	21461.4	21567.2	21524.1	21457.4	21332.0	21375.1	21618.2	21602.5	21688.8
18281.2	17.5°	18202.7	18712.5	18990.9	19049.8	18947.8	19034.1	19206.6	19163.5	19359.5
15089.2	20°	15061.8	15575.5	16261.7	16818.5	16830.3	16842.1	16951.8	16979.3	17147.9
12677.6	22.5°	12622.7	12987.4	13724.6	14461.8	14971.6	15077.5	15065.7	15104.9	15152.0
10760.1	25°	10732.6	10999.3	11673.8	12183.5	13077.6	13375.6	13461.9	13375.6	13403.1
9070.0	27.5°	9172.0	9579.8	9803.3	10348.4	11222.8	11913.0	11885.5	11834.5	11842.4
7893.6	30°	7889.7	8328.9	8658.3	8823.0	9481.7	10477.8	10579.7	10434.6	10438.5
6854.5	32.5°	6811.3	6948.6	7434.8	7568.1	7991.6	8897.5	9246.5	9136.7	9117.1
5482.0	35°	5642.8	5717.3	5940.8	6203.5	6454.5	7140.7	7717.1	7615.2	7666.2
4031.1	37.5°	4015.4	4321.3	4537.0	4752.6	4933.0	5364.4	6058.4	5964.3	6015.3
2854.7	40°	2831.2	2968.4	3341.0	3435.1	3701.7	3901.7	4489.9	4458.5	4521.3
1772.4	42.5°	1741.1	1839.1	2027.3	2117.5	2297.9	2411.6	2756.7	2795.9	2878.2
980.3	45°	988.2	1031.3	1160.7	1258.7	1392.1	1439.1	1560.7	1615.6	1662.6
760.7	47.5°	752.9	799.9	886.2	972.5	1082.3	1121.5	1207.8	1290.1	1333.2
588.2	50°	615.6	658.8	749.0	819.6	929.4	964.6	1035.2	1125.4	1180.3
447.0	52.5°	466.6	529.4	639.2	713.7	827.4	870.5	937.2	1027.4	1078.4
368.6	55°	384.3	431.3	529.4	631.3	737.2	796.0	839.2	949.0	1003.9
301.9	57.5°	329.4	364.7	427.4	549.0	639.2	725.4	760.7	862.7	917.6
239.2	60°	251.0	305.9	360.8	454.9	556.8	647.0	686.2	776.4	819.6
172.5	62.5°	207.8	243.1	313.7	364.7	478.4	572.5	611.7	694.1	725.4
113.7	65°	145.1	196.1	262.7	294.1	400.0	490.2	545.1	607.8	639.2
66.7	67.5°	86.3	145.1	207.8	251.0	325.5	415.7	474.5	533.3	560.7
39.2	70°	54.9	113.7	164.7	211.8	254.9	341.2	411.7	462.7	451.0
23.5	72.5°	31.4	70.6	121.6	172.5	211.8	286.3	352.9	392.1	278.4
15.7	75°	19.6	51.0	102.0	141.2	172.5	227.4	290.2	298.0	172.5
7.8	77.5°	15.7	39.2	78.4	113.7	117.6	168.6	203.9	231.4	129.4
7.8	80°	7.8	31.4	66.7	94.1	74.5	117.6	156.9	180.4	102.0
3.9	82.5°	7.8	19.6	51.0	66.7	54.9	90.2	113.7	129.4	86.3
3.9	85°	3.9	15.7	27.4	39.2	39.2	58.8	51.0	62.7	54.9
3.9	87.5°	3.9	7.8	15.7	19.6	15.7	23.5	27.4	27.4	23.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
30821.5
30754.9
30300.0
29009.9
26868.9
24390.6
21708.4
19328.2
17112.6
15065.7
13359.9
11854.1
10442.5
9164.1
7713.2
6058.4
4544.8
2972.4
1658.7
1352.9
1203.8
1113.7
1019.5
941.1
827.4
729.4
639.2
556.8
415.7
247.0
160.8
129.4
105.9
94.1
54.9
19.6
0.0

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