

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: P636524

Luminaire Tested: **IFLD-M-SA4E-940-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636524
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-940-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21648.2 lumens
Efficiency: N/A
Efficacy: 68.8 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



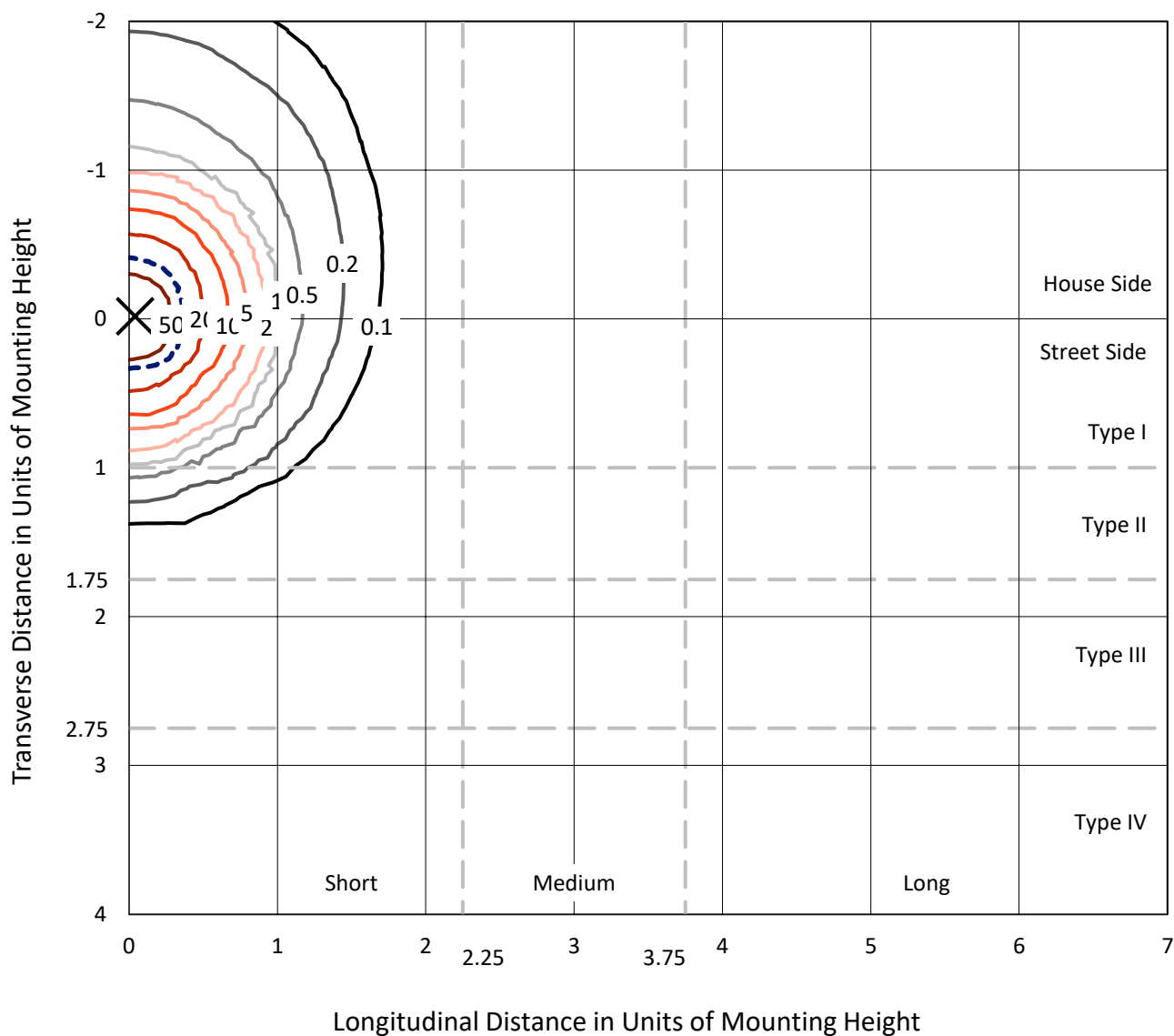
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

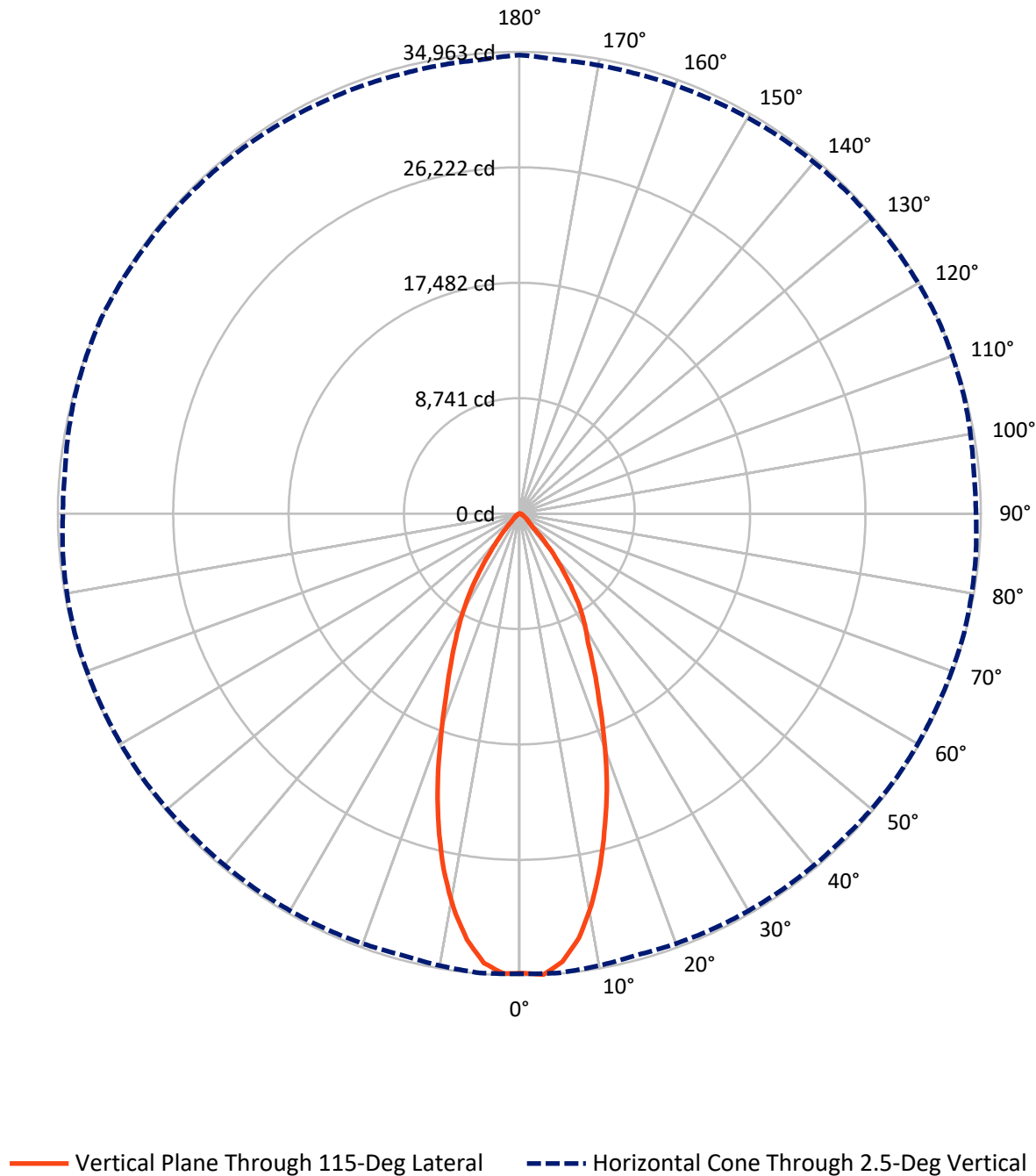


Based on 20 foot mounting height. Maximum calculated value = 87 fc

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	11947.3	0.0	11947.3
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	9700.9	0.0	9700.9
	% Fixture	44.8	0.0	44.8
Total	Lumens	21648.2	0.0	21648.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3121.2	14.4
10°-20°	6596.7	30.5
20°-30°	5953.9	27.5
30°-40°	3940.1	18.2
40°-50°	1180.3	5.5
50°-60°	473.5	2.2
60°-70°	245.2	1.1
70°-80°	106.4	0.5
80°-90°	31.0	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°	21648.2	100.0
0°-180°	21648.2	100.0

Coefficient of Utilization



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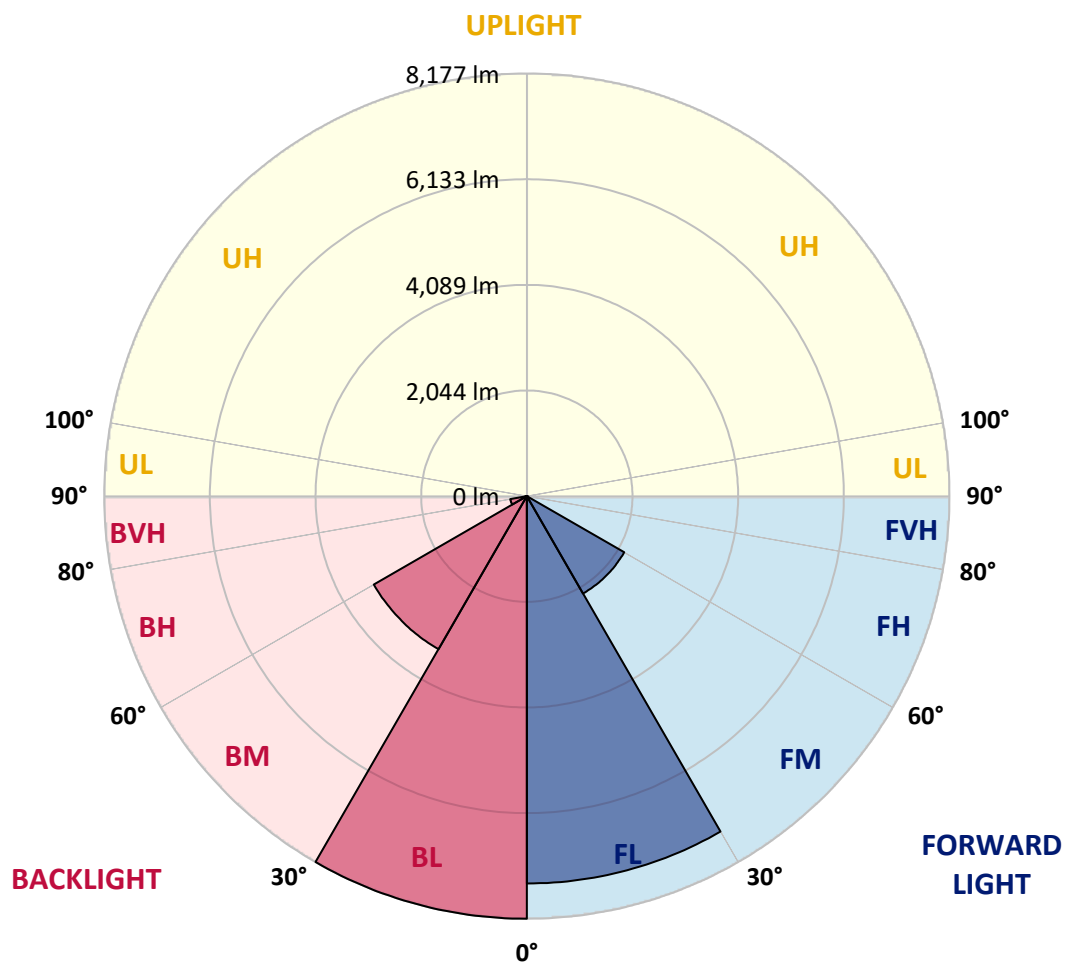
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7494.8	34.6			
FM	(30°-60°)	2174.8	10.0			
FH	(60°-80°)	26.9	0.1			G0/660
FVH	(80°-90°)	4.5	0.0			G0/10
BL	(0°-30°)	8177.1	37.8	B5		
BM	(30°-60°)	3419.0	15.8	B3/5000		
BH	(60°-80°)	324.7	1.5	B1/500		G1/500
BVH	(80°-90°)	26.5	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°	34799.4	34799.4	34799.4	34799.4	34799.4	34799.4	34799.4	34799.4	34799.4	34799.4
2.5°	34843.7	34905.7	34595.8	34702.0	34746.3	34759.6	34870.3	34852.6	34883.6	34719.8
5°	34383.3	34263.7	34033.5	34037.9	34024.6	33900.7	34153.0	34135.3	34082.2	33887.4
7.5°	32816.0	32988.6	32554.7	32545.9	32537.0	32386.5	32718.6	32514.9	32559.2	32280.2
10°	30522.6	30544.7	30159.5	30124.1	30155.1	29960.3	30345.5	30265.8	30349.9	30057.7
12.5°	27711.2	27835.1	27410.1	27348.1	27472.1	27197.6	27507.5	27547.3	27423.4	27383.5
15°	21734.2	22061.8	22867.6	24098.4	24417.2	24186.9	24434.9	24430.5	24483.6	24182.5
17.5°	16558.5	16589.5	16399.1	16988.0	20397.1	21503.9	21557.1	21136.5	20817.7	20707.0
20°	14455.5	14561.8	14389.1	14437.8	14982.4	18227.6	18351.6	17718.5	17173.9	17129.7
22.5°	12781.9	12848.3	12724.4	12764.2	12790.8	13171.5	15327.7	14769.8	14508.6	14309.4
25°	11365.2	11365.2	11298.8	11312.0	11285.5	10723.2	11830.0	12467.6	12317.1	12246.2
27.5°	10072.4	10090.1	10005.9	10054.6	9731.4	8823.8	8691.0	10572.7	10413.3	10284.9
30°	8846.0	8903.5	8823.8	8850.4	8146.4	7402.6	7021.9	8819.4	9018.6	8983.2
32.5°	6658.8	6920.0	7562.0	7588.6	6632.3	6061.1	5892.9	7079.4	7836.5	7770.1
35°	4126.3	4113.1	4139.6	5414.7	5087.1	4697.5	4759.5	5348.3	6202.8	6171.8
37.5°	3147.9	3143.5	3192.2	3063.8	3333.8	3564.1	3612.8	3612.8	4529.2	4533.7
40°	2386.4	2368.7	2364.2	2160.6	1810.8	2674.2	2594.5	2528.1	3147.9	3214.3
42.5°	1523.0	1576.2	1536.3	1314.9	1182.1	1461.0	1629.3	1576.2	1943.6	1992.3
45°	850.1	850.1	814.6	690.7	686.2	739.4	929.8	867.8	996.2	1062.6
47.5°	411.7	402.9	442.7	544.6	566.7	549.0	664.1	690.7	752.7	814.6
50°	332.1	332.1	314.3	283.4	469.3	451.6	491.4	526.9	562.3	615.4
52.5°	278.9	278.9	256.8	239.1	270.1	345.3	349.8	416.2	411.7	487.0
55°	141.7	146.1	208.1	208.1	181.5	283.4	287.8	336.5	345.3	407.3
57.5°	13.3	17.7	26.6	128.4	141.7	155.0	216.9	247.9	287.8	314.3
60°	4.4	4.4	8.9	17.7	84.1	106.3	137.2	163.8	199.2	261.2
62.5°	0.0	0.0	4.4	8.9	17.7	66.4	75.3	84.1	119.5	163.8
65°	0.0	0.0	4.4	4.4	8.9	22.1	31.0	53.1	75.3	101.8
67.5°	0.0	0.0	4.4	4.4	8.9	13.3	17.7	26.6	35.4	66.4
70°	0.0	0.0	4.4	4.4	8.9	13.3	13.3	17.7	22.1	31.0
72.5°	0.0	0.0	4.4	4.4	8.9	17.7	13.3	13.3	17.7	22.1
75°	0.0	0.0	4.4	4.4	8.9	13.3	13.3	13.3	13.3	13.3
77.5°	0.0	0.0	4.4	4.4	8.9	13.3	13.3	13.3	8.9	8.9
80°	0.0	0.0	4.4	4.4	8.9	13.3	17.7	17.7	8.9	8.9
82.5°	0.0	0.0	4.4	8.9	8.9	22.1	26.6	22.1	8.9	4.4
85°	0.0	0.0	4.4	4.4	13.3	22.1	22.1	13.3	8.9	4.4
87.5°	0.0	0.0	0.0	4.4	4.4	8.9	13.3	13.3	4.4	4.4
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°
34799.4	0°	34799.4	34799.4	34799.4	34799.4	34799.4	34799.4	34799.4	34799.4	34799.4
34586.9	2.5°	34569.2	34839.3	34963.3	34834.9	34772.9	34684.3	34555.9	34467.4	34485.1
33781.1	5°	33705.9	33989.2	34086.6	33975.9	33883.0	33834.3	33812.1	33856.4	33971.5
32160.7	7.5°	32151.9	32333.4	32439.6	32386.5	32258.1	32404.2	32444.1	32417.5	32585.7
29969.1	10°	29978.0	30177.2	30079.8	30102.0	29951.4	30026.7	30004.6	30102.0	30270.2
27352.5	12.5°	27175.4	27365.8	27290.6	27277.3	27117.9	27259.6	27171.0	27277.3	27498.6
24058.5	15°	24231.2	24350.8	24302.1	24226.8	24085.1	24133.8	24408.3	24390.6	24488.0
20640.6	17.5°	20552.0	21127.6	21441.9	21508.4	21393.2	21490.7	21685.5	21636.8	21858.1
17036.7	20°	17005.7	17585.7	18360.5	18989.2	19002.4	19015.7	19139.7	19170.7	19361.1
14313.8	22.5°	14251.8	14663.6	15495.9	16328.3	16903.9	17023.4	17010.1	17054.4	17107.5
12148.8	25°	12117.8	12418.9	13180.4	13756.0	14765.4	15101.9	15199.3	15101.9	15132.9
10240.6	27.5°	10355.7	10816.2	11068.5	11683.9	12671.2	13450.5	13419.5	13361.9	13370.8
8912.4	30°	8907.9	9403.8	9775.7	9961.7	10705.5	11830.0	11945.2	11781.3	11785.8
7739.1	32.5°	7690.4	7845.4	8394.4	8544.9	9023.1	10045.8	10439.8	10315.9	10293.7
6189.5	35°	6371.0	6455.2	6707.5	7004.2	7287.5	8062.3	8713.1	8598.0	8655.6
4551.4	37.5°	4533.7	4879.0	5122.5	5366.0	5569.7	6056.7	6840.3	6734.1	6791.6
3223.2	40°	3196.6	3351.5	3772.2	3878.4	4179.5	4405.3	5069.4	5034.0	5104.8
2001.2	42.5°	1965.8	2076.5	2289.0	2390.8	2594.5	2722.9	3112.5	3156.7	3249.7
1106.9	45°	1115.7	1164.4	1310.5	1421.2	1571.7	1624.9	1762.1	1824.1	1877.2
858.9	47.5°	850.1	903.2	1000.6	1098.0	1222.0	1266.2	1363.6	1456.6	1505.3
664.1	50°	695.1	743.8	845.6	925.3	1049.3	1089.1	1168.8	1270.7	1332.7
504.7	52.5°	526.9	597.7	721.7	805.8	934.2	982.9	1058.2	1160.0	1217.5
416.2	55°	433.9	487.0	597.7	712.8	832.4	898.8	947.5	1071.4	1133.4
340.9	57.5°	371.9	411.7	482.6	619.8	721.7	819.1	858.9	974.0	1036.0
270.1	60°	283.4	345.3	407.3	513.6	628.7	730.5	774.8	876.6	925.3
194.8	62.5°	234.7	274.5	354.2	411.7	540.1	646.4	690.7	783.7	819.1
128.4	65°	163.8	221.4	296.6	332.1	451.6	553.4	615.4	686.2	721.7
75.3	67.5°	97.4	163.8	234.7	283.4	367.5	469.3	535.7	602.1	633.1
44.3	70°	62.0	128.4	186.0	239.1	287.8	385.2	464.9	522.4	509.2
26.6	72.5°	35.4	79.7	137.2	194.8	239.1	323.2	398.5	442.7	314.3
17.7	75°	22.1	57.6	115.1	159.4	194.8	256.8	327.6	336.5	194.8
8.9	77.5°	17.7	44.3	88.5	128.4	132.8	190.4	230.2	261.2	146.1
8.9	80°	8.9	35.4	75.3	106.3	84.1	132.8	177.1	203.7	115.1
4.4	82.5°	8.9	22.1	57.6	75.3	62.0	101.8	128.4	146.1	97.4
4.4	85°	4.4	17.7	31.0	44.3	44.3	66.4	57.6	70.8	62.0
4.4	87.5°	4.4	8.9	17.7	22.1	17.7	26.6	31.0	31.0	26.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
34799.4
34724.2
34210.6
32754.0
30336.6
27538.5
24510.1
21822.7
19321.2
17010.1
15084.2
13384.1
11790.2
10346.9
8708.7
6840.3
5131.4
3356.0
1872.8
1527.5
1359.2
1257.4
1151.1
1062.6
934.2
823.5
721.7
628.7
469.3
278.9
181.5
146.1
119.5
106.3
62.0
22.1
0.0

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