

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: P637691

Luminaire Tested: **IFLD-L-SA8B-750-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637691
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-750-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39105.4 lumens
Efficiency: N/A
Efficacy: 122.2 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): 320
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



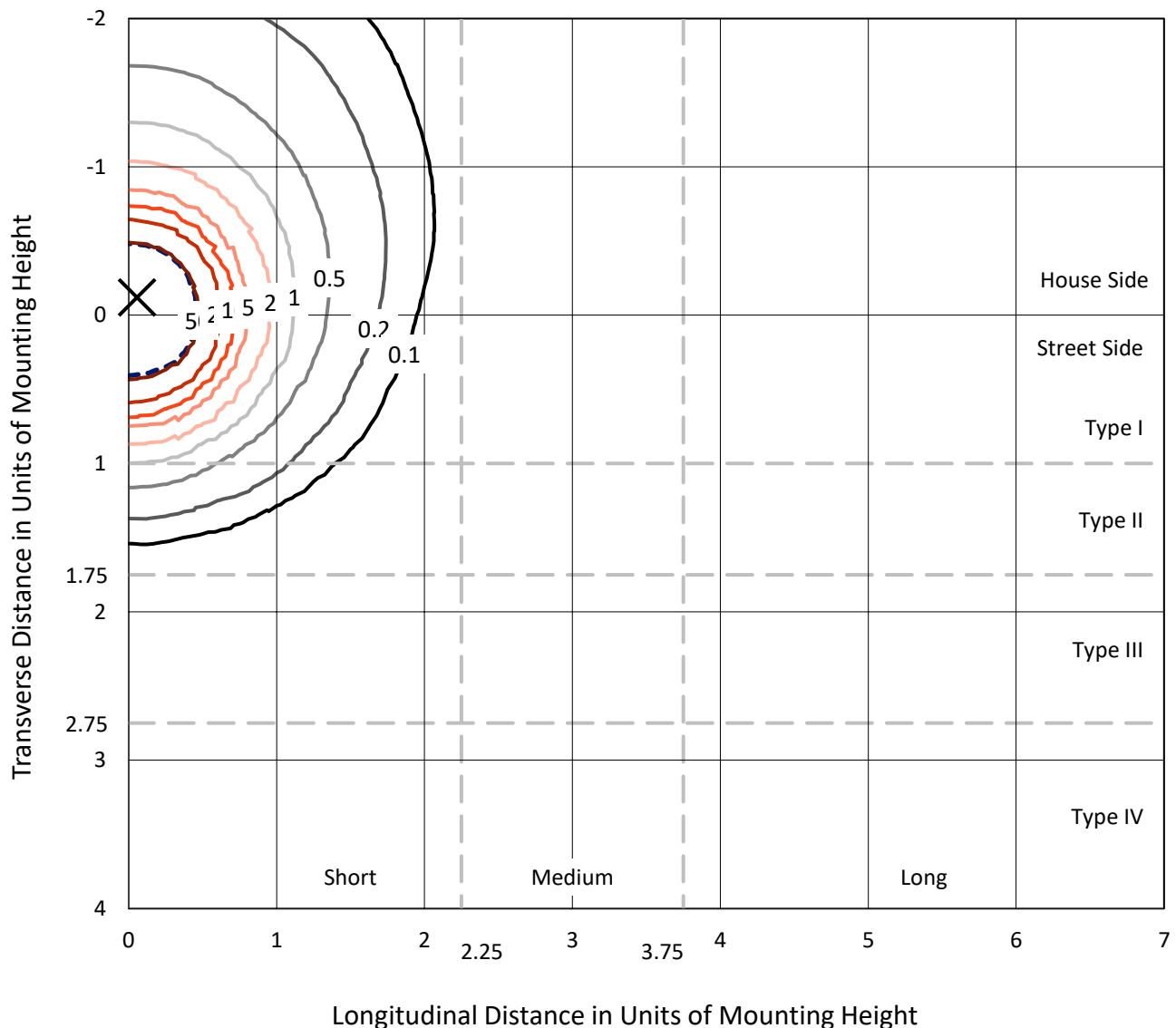
REPORT NUMBER: P637691

CATALOG NUMBER: IFLD-L-SA8B-750-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd



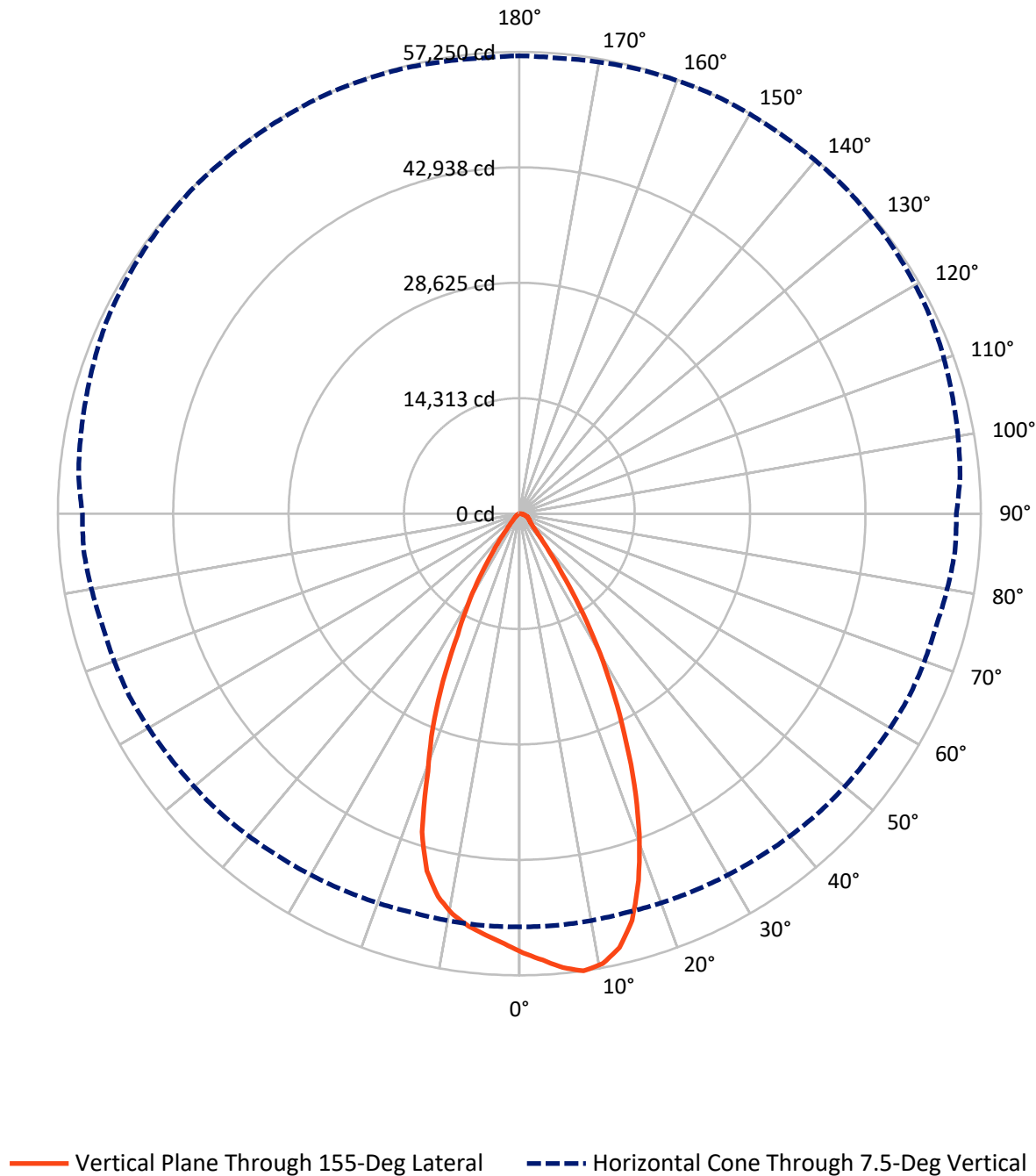
Based on 20 foot mounting height. Maximum calculated value = 138.4 fc

Type I - Short - N/A

REPORT NUMBER: P637691

CATALOG NUMBER: IFLD-L-SA8B-750-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P637691

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21587.6	0.0	21587.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	17517.8	0.0	17517.8
	% Fixture	44.8	0.0	44.8
Total	Lumens	39105.4	0.0	39105.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5194.7	13.3
10°-20°	13469.9	34.4
20°-30°	12342.2	31.6
30°-40°	4986.3	12.8
40°-50°	1462.7	3.7
50°-60°	817.9	2.1
60°-70°	496.7	1.3
70°-80°	252.4	0.6
80°-90°	82.5	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°	39105.4	100.0
0°-180°	39105.4	100.0

Coefficient of Utilization



REPORT NUMBER: P637691

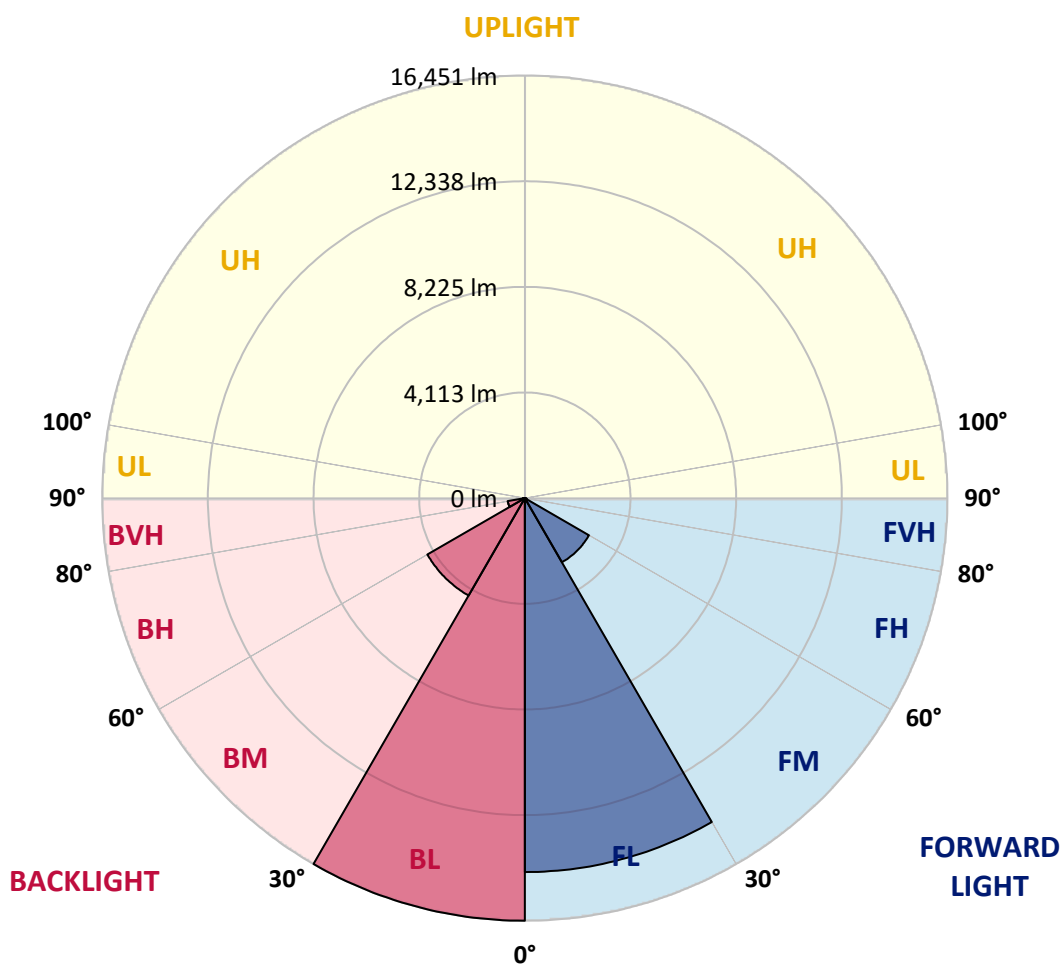
CATALOG NUMBER: IFLD-L-SA8B-750-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	14556.0	37.2			
FM	(30°-60°)	2884.7	7.4			
FH	(60°-80°)	69.9	0.2			G0/660
FVH	(80°-90°)	7.1	0.0			G0/10
BL	(0°-30°)	16450.9	42.1	B5		
BM	(30°-60°)	4382.1	11.2	B3/5000		
BH	(60°-80°)	679.3	1.7	B2/1000		G2/1000
BVH	(80°-90°)	75.4	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



REPORT NUMBER: P637691

CATALOG NUMBER: IFLD-L-SA8B-750-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	54476.9	54476.9	54476.9	54476.9	54476.9	54476.9	54476.9	54476.9	54476.9	54476.9
2.5°	53295.5	53475.8	53115.1	53354.1	53539.0	53980.9	54016.9	54170.3	54224.4	54625.7
5°	52285.4	52425.2	52132.1	52452.2	52713.8	53106.1	53408.2	53832.1	54066.5	54540.0
7.5°	51234.7	51266.3	51207.6	51545.8	51938.2	52479.3	52853.5	53408.2	53552.5	54228.9
10°	49963.1	49733.1	49845.8	50341.9	50928.1	51757.8	52014.8	52569.5	52826.5	53516.4
12.5°	47933.9	48051.1	47911.3	48542.6	49029.7	49972.1	50242.7	50801.8	51293.3	51902.1
15°	45075.0	45007.4	45291.4	45783.0	46310.5	47059.1	47496.5	48105.2	48479.5	49110.8
17.5°	38649.2	38879.2	40051.6	41282.7	42364.9	43239.7	43762.8	44267.8	44538.4	45223.8
20°	33377.9	33089.3	33247.1	33941.5	37021.4	38360.6	38910.8	39032.5	39145.3	39686.4
22.5°	27484.2	27389.5	27917.1	28697.2	29427.7	32516.6	33265.1	32981.0	33215.5	33725.1
25°	20409.1	20887.1	21356.1	22853.1	23800.1	25315.2	26735.7	26861.9	26947.6	27267.8
27.5°	16612.3	16445.4	16436.4	16855.8	18253.7	19516.3	20724.8	21004.3	20954.7	21261.4
30°	13058.9	13004.8	12815.4	12914.6	12774.9	13897.7	14465.8	15615.7	15552.6	15561.6
32.5°	9419.9	9217.0	9140.4	9289.2	9144.9	9041.2	9537.2	10835.9	10813.3	10903.5
35°	5699.8	5672.7	5735.8	5866.6	5578.0	5569.0	5672.7	6894.7	7043.5	7187.8
37.5°	3147.5	3120.4	3170.0	3652.5	3557.8	3472.2	3499.2	4144.0	4572.4	4680.7
40°	2074.3	2069.8	2105.8	2191.5	2353.9	2322.3	2335.8	2624.4	3030.3	3124.9
42.5°	1388.9	1393.4	1415.9	1515.1	1537.7	1700.0	1673.0	1740.6	2119.4	2200.5
45°	1109.3	1104.8	1118.3	1073.2	1100.3	1267.1	1285.2	1289.7	1614.3	1663.9
47.5°	874.8	874.8	888.3	829.7	816.2	919.9	1014.6	1028.1	1289.7	1357.3
50°	613.3	613.3	680.9	653.8	685.4	717.0	820.7	834.2	1055.2	1127.3
52.5°	450.9	459.9	469.0	473.5	577.2	572.7	662.9	726.0	798.1	924.4
55°	342.7	351.7	329.2	351.7	428.4	478.0	496.0	586.2	635.8	775.6
57.5°	225.5	248.0	230.0	270.6	288.6	369.8	396.8	482.5	514.1	635.8
60°	31.6	36.1	58.6	189.4	202.9	243.5	306.6	383.3	414.9	518.6
62.5°	4.5	4.5	13.5	31.6	135.3	162.3	230.0	266.0	306.6	387.8
65°	0.0	0.0	4.5	9.0	27.1	94.7	117.2	144.3	211.9	279.6
67.5°	0.0	0.0	4.5	9.0	13.5	31.6	49.6	94.7	121.8	193.9
70°	0.0	0.0	4.5	9.0	13.5	18.0	27.1	36.1	72.1	112.7
72.5°	0.0	0.0	4.5	9.0	13.5	18.0	22.5	27.1	31.6	72.1
75°	0.0	0.0	4.5	9.0	13.5	22.5	27.1	27.1	27.1	31.6
77.5°	0.0	0.0	4.5	9.0	18.0	27.1	31.6	27.1	22.5	22.5
80°	0.0	0.0	4.5	13.5	22.5	31.6	36.1	27.1	18.0	13.5
82.5°	0.0	0.0	4.5	13.5	22.5	31.6	36.1	31.6	18.0	13.5
85°	0.0	0.0	4.5	13.5	18.0	22.5	36.1	31.6	18.0	9.0
87.5°	0.0	0.0	0.0	4.5	4.5	9.0	18.0	13.5	9.0	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P637691

CATALOG NUMBER: IFLD-L-SA8B-750-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
54476.9	0°	54476.9	54476.9	54476.9	54476.9	54476.9	54476.9	54476.9	54476.9	54476.9
54616.7	2.5°	55022.5	55225.4	55581.7	55680.9	55987.5	55635.8	55441.9	55459.9	55040.6
54481.4	5°	55022.5	55487.0	56109.3	56406.9	56632.3	56614.3	56564.7	56438.4	56131.8
54210.8	7.5°	54878.2	55635.8	56492.6	56889.4	57159.9	57137.4	57250.1	57047.2	56672.9
53728.3	10°	54413.8	55072.1	56127.3	56452.0	56889.4	56898.4	56758.6	56799.2	56131.8
51965.2	12.5°	52952.7	53466.8	54391.2	54761.0	55293.1	55378.8	55225.4	55166.8	54535.5
49074.7	15°	50125.4	50423.0	51351.9	51721.7	52249.3	52177.1	52330.5	52267.3	51712.7
45169.7	17.5°	45990.4	46085.1	47059.1	47370.2	47866.3	48060.2	47830.2	48123.3	47645.3
39781.1	20°	40060.7	40570.2	41666.0	42143.9	42432.5	42779.8	42477.6	42806.8	42247.7
33242.6	22.5°	34045.2	34347.4	35339.4	36029.3	36565.9	36633.6	36520.8	36750.8	35997.8
27479.7	25°	27475.2	27975.7	28760.3	29662.2	30189.8	30514.5	30221.4	30370.2	30248.4
21311.0	27.5°	21671.7	22118.1	22708.9	23380.7	24174.4	24598.2	24363.8	24616.3	24021.1
15890.8	30°	15904.3	16129.8	16797.2	17509.6	18379.9	18894.0	18916.5	19173.6	18821.8
11133.5	32.5°	11214.6	11413.0	11823.4	12296.9	13126.6	13699.3	13609.1	13645.2	13428.7
7255.5	35°	7291.5	7557.6	7850.7	8076.2	8576.7	9208.0	9158.4	9113.3	8964.5
4770.8	37.5°	4874.6	4978.3	5140.6	5343.5	5668.2	6065.0	6195.8	6033.4	5970.3
3219.6	40°	3296.3	3476.7	3584.9	3738.2	3891.5	4225.2	4315.4	4283.8	4220.7
2254.7	42.5°	2340.3	2480.1	2615.4	2764.2	2845.4	3052.8	3228.7	3179.1	3152.0
1713.5	45°	1776.7	1902.9	2060.8	2173.5	2254.7	2376.4	2543.2	2561.3	2520.7
1375.3	47.5°	1424.9	1537.7	1663.9	1803.7	1898.4	1975.1	2119.4	2173.5	2146.4
1158.9	50°	1208.5	1294.2	1415.9	1555.7	1659.4	1727.1	1853.3	1911.9	1893.9
969.5	52.5°	1028.1	1131.8	1244.6	1361.8	1488.1	1555.7	1673.0	1758.6	1745.1
802.7	55°	852.3	987.5	1104.8	1222.0	1366.3	1434.0	1537.7	1650.4	1627.9
680.9	57.5°	744.0	856.8	978.5	1091.3	1244.6	1334.8	1429.4	1546.7	1542.2
559.2	60°	622.3	735.0	870.3	965.0	1127.3	1253.6	1339.3	1461.0	1470.0
423.9	62.5°	496.0	635.8	739.5	870.3	1019.1	1167.9	1249.1	1370.8	1415.9
324.7	65°	369.8	523.1	640.3	771.1	910.9	1077.7	1149.9	1271.6	1316.7
234.5	67.5°	275.1	392.3	541.1	653.8	811.7	956.0	1041.6	1154.4	1185.9
139.8	70°	207.4	302.1	450.9	550.1	712.5	829.7	915.4	1001.1	1041.6
94.7	72.5°	121.8	225.5	356.2	473.5	613.3	712.5	775.6	843.2	870.3
45.1	75°	85.7	171.4	279.6	392.3	496.0	577.2	635.8	694.4	721.5
22.5	77.5°	45.1	126.3	221.0	315.7	387.8	455.4	514.1	559.2	577.2
18.0	80°	27.1	90.2	180.4	248.0	297.6	356.2	414.9	446.4	441.9
13.5	82.5°	18.0	72.1	130.8	180.4	216.4	261.5	302.1	324.7	324.7
9.0	85°	13.5	49.6	90.2	139.8	144.3	180.4	189.4	211.9	216.4
9.0	87.5°	9.0	31.6	49.6	81.2	76.7	94.7	99.2	112.7	121.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
54476.9
54702.4
56231.0
56758.6
55937.9
54391.2
51888.6
47528.1
42202.6
35894.1
30171.7
24174.4
18885.0
13550.5
8833.7
5956.8
4229.7
3129.5
2516.2
2132.9
1889.4
1736.1
1627.9
1537.7
1470.0
1411.4
1312.2
1185.9
1032.6
861.3
712.5
572.7
437.4
320.2
211.9
117.2
0.0

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