

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: P636806

Luminaire Tested: **IFLD-S-SA6B-940-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636806
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-940-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18552.9 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

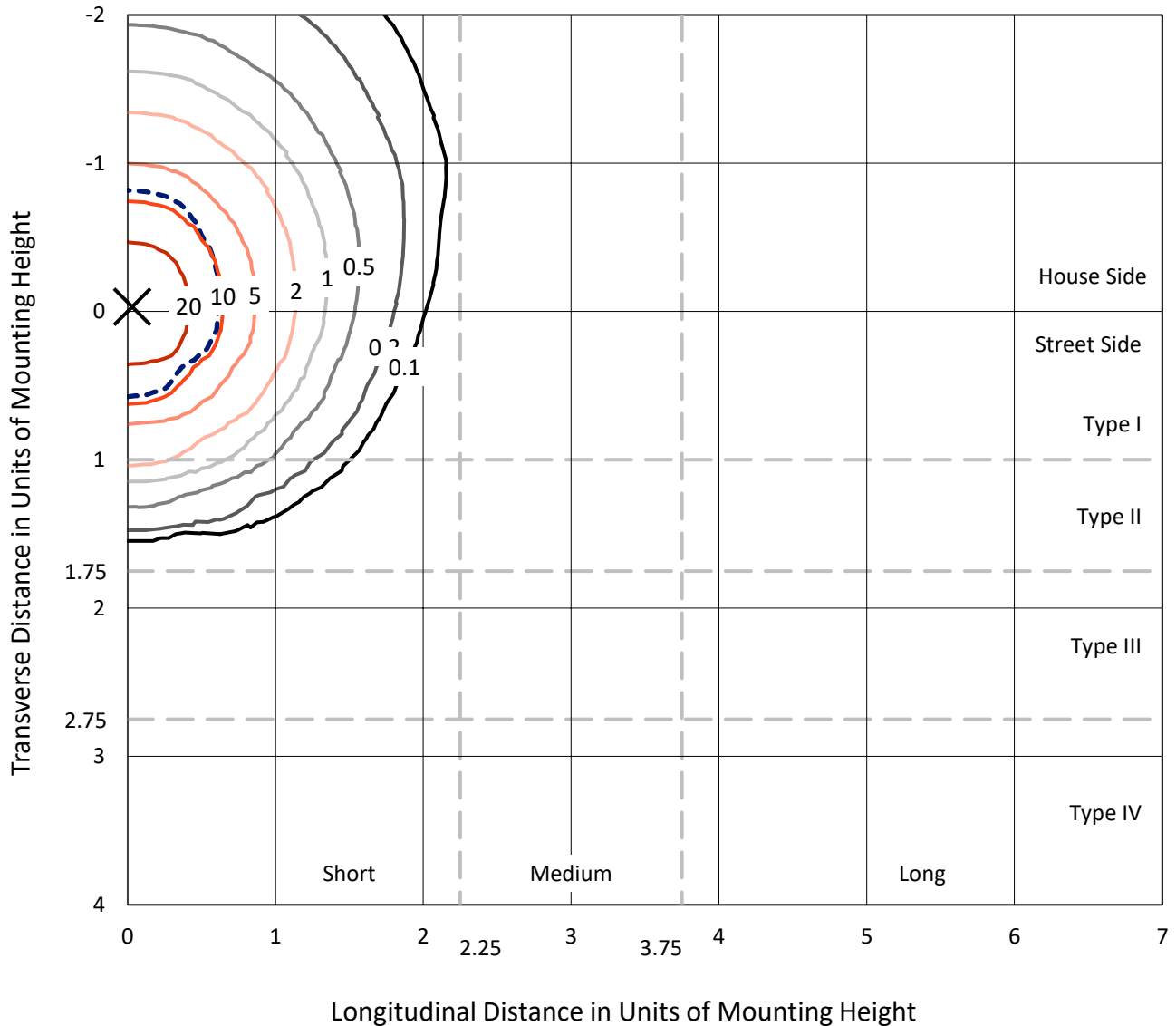
Input Watts (W): 244.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P636806
 CATALOG NUMBER: IFLD-S-SA6B-940-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

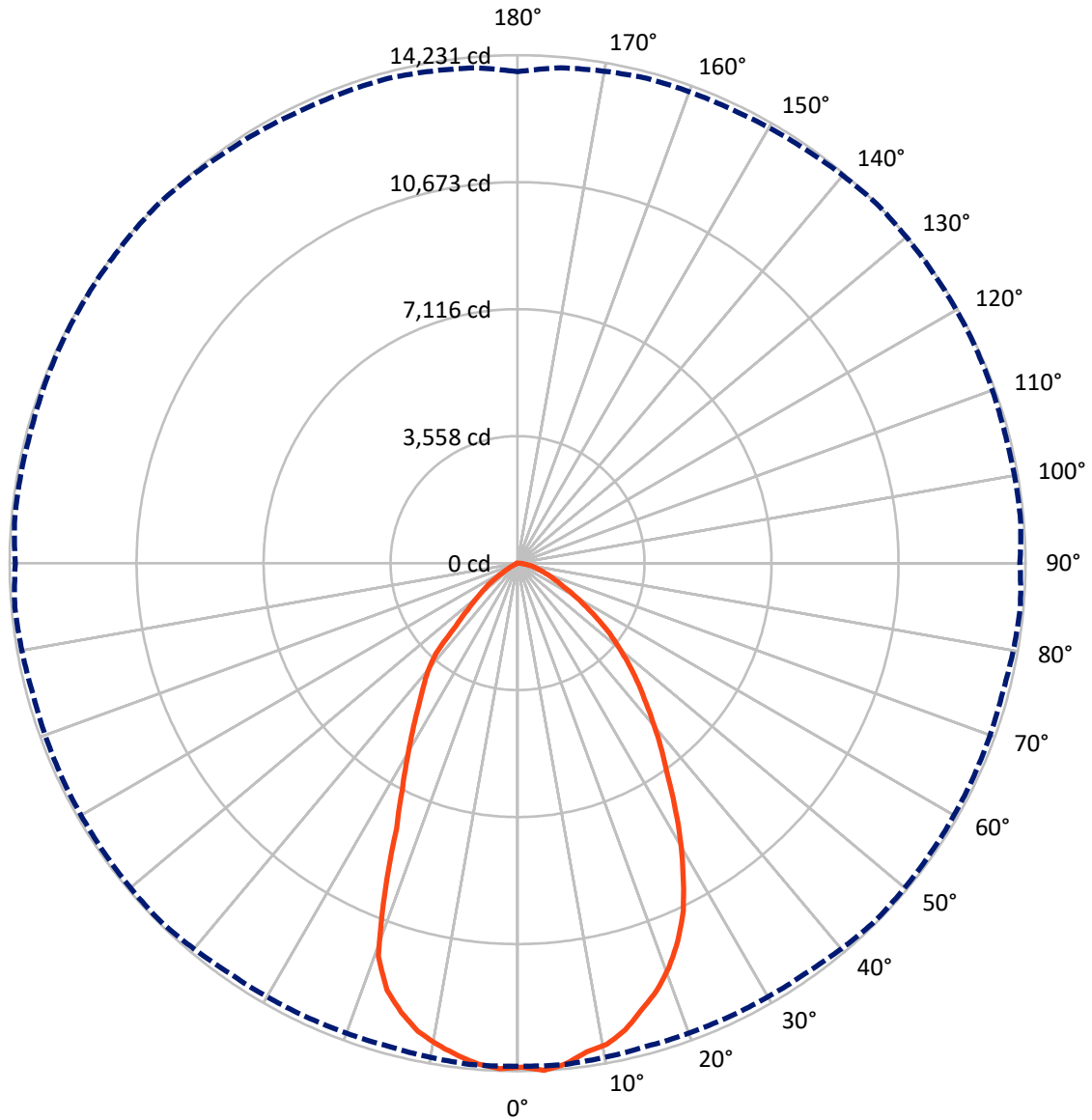
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 35.3 fc
 Type I - Short - N/A

REPORT NUMBER: P636806
CATALOG NUMBER: IFLD-S-SA6B-940-U-77-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P636806

CATALOG NUMBER: IFLD-S-SA6B-940-U-77-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10988.0	0.0	10988.0
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	7564.9	0.0	7564.9
	% Fixture	40.8	0.0	40.8
Total	Lumens	18552.9	0.0	18552.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1324.1	7.1
10°-20°	3550.7	19.1
20°-30°	4330.2	23.3
30°-40°	3953.5	21.3
40°-50°	2857.1	15.4
50°-60°	1560.0	8.4
60°-70°	645.0	3.5
70°-80°	261.2	1.4
80°-90°	71.1	0.4
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°	18552.9	100.0
0°-180°	18552.9	100.0



REPORT NUMBER: P636806

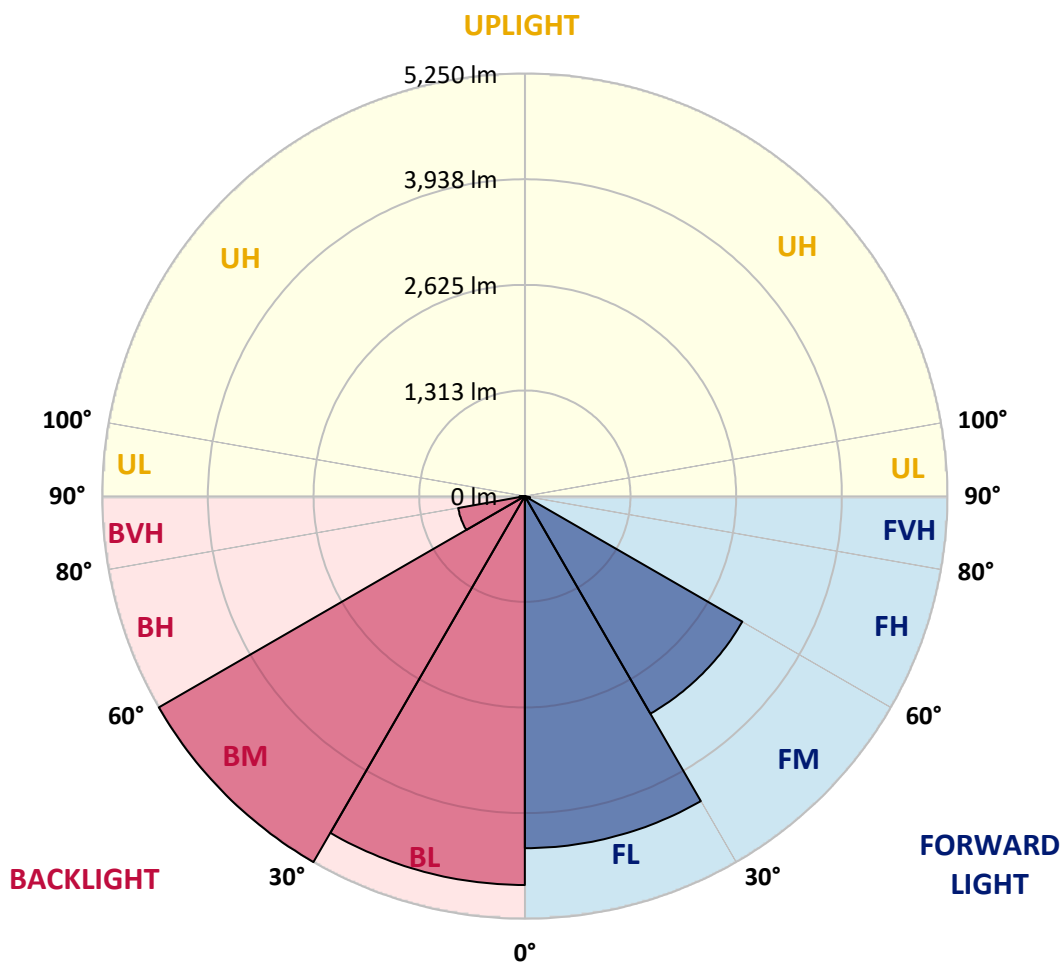
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4373.6	23.6			
FM (30°-60°)	3120.2	16.8			
FH (60°-80°)	65.4	0.4			G0/660
FVH (80°-90°)	5.7	0.0			G0/10
BL (0°-30°)	4831.4	26.0	B4/5000		
BM (30°-60°)	5250.3	28.3	B4/8500		
BH (60°-80°)	840.9	4.5	B2/1000		G2/1000
BVH (80°-90°)	65.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





REPORT NUMBER: P636806
 CATALOG NUMBER: IFLD-S-SA6B-940-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14118.7	14118.7	14118.7	14118.7	14118.7	14118.7	14118.7	14118.7	14118.7	14118.7
2.5°	14092.5	14110.8	14011.5	14022.0	14040.3	14173.5	14139.6	14108.2	14063.8	14139.6
5°	14074.2	14084.7	13980.2	13943.6	13959.3	14079.5	13969.7	13969.7	13959.3	13946.2
7.5°	13933.2	13938.4	13857.4	13792.1	13833.9	13888.7	13807.8	13846.9	13789.5	13833.9
10°	13721.5	13687.6	13590.9	13572.6	13619.6	13671.9	13617.0	13653.6	13601.4	13635.3
12.5°	13410.6	13358.4	13280.0	13256.5	13337.5	13408.0	13363.6	13342.7	13274.8	13358.4
15°	12211.4	12172.2	12349.9	12660.8	12940.4	13000.5	12953.4	12974.3	12833.2	12856.8
17.5°	10050.8	9977.6	10168.4	10905.1	11955.4	12509.3	12467.5	12331.6	12122.6	12169.6
20°	9133.8	9112.9	9092.0	9267.0	10001.2	11681.1	11738.5	11393.7	11095.8	11030.5
22.5°	8616.5	8608.6	8587.7	8626.9	8820.2	9899.3	10557.6	10238.9	10040.3	10022.1
25°	8143.6	8130.5	8067.8	8117.4	8117.4	8180.1	9024.0	9217.4	9042.3	9021.4
27.5°	7662.8	7639.3	7628.9	7652.4	7532.2	7109.0	7323.2	8266.4	8174.9	8180.1
30°	7142.9	7135.1	7106.4	7156.0	6785.0	6259.9	6124.0	7404.2	7422.5	7417.3
32.5°	6369.6	6403.6	6534.2	6589.1	5977.7	5544.0	5316.7	6406.2	6779.8	6771.9
35°	4627.0	4627.0	5052.8	5844.5	5238.3	4911.7	4789.0	5431.7	6144.9	6171.0
37.5°	3804.0	3817.1	3900.7	4261.2	4519.9	4404.9	4368.3	4572.1	5329.8	5371.6
40°	3422.5	3422.5	3422.5	3273.6	3265.8	3968.6	3947.7	3882.4	4603.5	4694.9
42.5°	3075.1	3082.9	3088.1	2711.9	2502.9	3430.4	3383.4	3284.1	3952.9	4060.0
45°	2717.1	2730.2	2745.9	2267.8	2176.3	2468.9	2863.4	2753.7	3310.2	3448.7
47.5°	1659.0	1679.9	2035.2	1922.9	1933.3	1904.6	2335.7	2317.4	2714.5	2910.5
50°	1120.8	1128.7	1162.6	1220.1	1659.0	1497.0	1653.8	1917.7	2061.4	2359.2
52.5°	940.5	953.6	870.0	791.6	1089.5	1170.5	1154.8	1423.9	1481.4	1849.7
55°	661.0	702.8	663.6	655.8	619.2	909.2	875.2	1094.7	1131.3	1405.6
57.5°	67.9	78.4	135.9	488.6	405.0	514.7	624.4	802.1	838.7	1037.2
60°	5.2	5.2	13.1	67.9	295.2	308.3	431.1	493.8	564.3	723.7
62.5°	0.0	2.6	5.2	10.5	47.0	164.6	216.8	258.7	339.6	467.7
65°	0.0	0.0	2.6	7.8	10.5	62.7	83.6	135.9	185.5	290.0
67.5°	0.0	0.0	2.6	5.2	7.8	15.7	28.7	49.6	99.3	164.6
70°	0.0	0.0	2.6	5.2	7.8	13.1	20.9	31.4	44.4	88.8
72.5°	0.0	0.0	2.6	2.6	5.2	13.1	15.7	20.9	31.4	44.4
75°	0.0	0.0	2.6	2.6	7.8	15.7	13.1	15.7	20.9	28.7
77.5°	0.0	0.0	2.6	5.2	7.8	15.7	13.1	15.7	15.7	18.3
80°	0.0	0.0	2.6	5.2	10.5	18.3	15.7	15.7	13.1	13.1
82.5°	0.0	0.0	2.6	7.8	10.5	23.5	23.5	20.9	10.5	7.8
85°	0.0	0.0	5.2	10.5	15.7	26.1	26.1	20.9	7.8	5.2
87.5°	0.0	0.0	5.2	7.8	13.1	18.3	26.1	20.9	7.8	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636806

CATALOG NUMBER: IFLD-S-SA6B-940-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
14118.7	0°	14118.7	14118.7	14118.7	14118.7	14118.7	14118.7	14118.7	14118.7	14118.7
14074.2	2.5°	14144.8	14129.1	14181.4	14202.3	14231.0	14121.3	14053.3	14056.0	13930.5
13914.9	5°	13998.5	14001.1	14069.0	14063.8	14092.5	14032.4	14006.3	13961.9	13852.2
13713.7	7.5°	13813.0	13789.5	13854.8	13904.4	13831.3	13873.1	13813.0	13833.9	13768.6
13536.0	10°	13669.3	13614.4	13674.5	13708.5	13711.1	13669.3	13611.8	13556.9	13533.4
13259.1	12.5°	13350.5	13280.0	13381.9	13428.9	13421.1	13340.1	13274.8	13287.8	13212.1
12773.2	15°	12911.6	12914.2	12987.4	13031.8	12990.0	12971.7	12976.9	12945.6	12880.3
12101.7	17.5°	12240.2	12279.4	12472.7	12579.8	12603.3	12566.8	12548.5	12511.9	12446.6
11030.5	20°	11122.0	11357.1	11702.0	12033.8	12099.1	12088.6	12023.3	12007.7	11971.1
9969.8	22.5°	10139.6	10314.7	10714.4	11231.7	11498.2	11524.3	11445.9	11422.4	11383.2
9021.4	25°	9123.3	9311.4	9672.0	10233.7	10784.9	10897.3	10884.2	10813.7	10771.9
8180.1	27.5°	8266.4	8454.5	8781.1	9287.9	9878.4	10238.9	10272.9	10160.5	10157.9
7430.3	30°	7493.0	7751.7	7999.9	8412.7	8984.8	9525.7	9583.1	9504.8	9512.6
6743.2	32.5°	6886.9	7101.1	7312.8	7589.7	8065.2	8694.8	8919.5	8846.4	8817.6
6171.0	35°	6267.7	6414.0	6630.9	6884.3	7208.2	7832.7	8221.9	8167.1	8138.3
5397.7	37.5°	5562.3	5813.1	5969.9	6254.6	6508.1	7004.5	7553.1	7545.3	7485.2
4739.3	40°	4838.6	5102.5	5340.2	5627.6	5823.6	6218.1	6826.8	6824.2	6832.0
4057.4	42.5°	4182.8	4425.8	4713.2	5026.7	5214.8	5502.2	6155.4	6191.9	6236.3
3495.7	45°	3589.8	3809.2	4075.7	4457.1	4684.4	4849.0	5429.0	5596.3	5593.6
2994.1	47.5°	3056.8	3263.2	3487.9	3858.9	4148.9	4297.8	4778.5	5016.3	5000.6
2455.9	50°	2565.6	2748.5	2983.6	3252.7	3642.0	3772.6	4130.6	4444.1	4420.6
1956.9	52.5°	2064.0	2317.4	2516.0	2761.6	3171.7	3299.8	3576.7	3882.4	3864.1
1468.3	55°	1609.4	1855.0	2095.3	2307.0	2651.8	2842.5	3041.1	3354.6	3349.4
1149.6	57.5°	1217.5	1486.6	1713.9	1915.1	2189.4	2424.5	2583.9	2868.7	2905.2
786.4	60°	901.4	1107.8	1353.3	1578.0	1794.9	2037.9	2145.0	2424.5	2440.2
538.2	62.5°	614.0	841.3	1081.6	1285.4	1447.4	1698.2	1794.9	2024.8	2053.5
344.9	65°	425.9	572.2	846.5	992.8	1191.4	1405.6	1502.3	1685.1	1742.6
198.6	67.5°	282.2	407.6	661.0	794.2	990.2	1136.5	1259.3	1408.2	1470.9
125.4	70°	154.1	300.5	472.9	627.0	796.9	937.9	1058.1	1178.3	1233.2
57.5	72.5°	104.5	201.2	329.2	496.4	642.7	781.2	888.3	977.1	979.7
34.0	75°	52.3	135.9	250.8	384.1	501.6	637.5	734.1	786.4	723.7
20.9	77.5°	31.4	99.3	203.8	308.3	407.6	514.7	569.6	598.3	496.4
15.7	80°	18.3	70.5	159.4	245.6	282.2	378.8	431.1	438.9	331.8
10.5	82.5°	13.1	52.3	125.4	180.3	172.4	266.5	324.0	313.5	211.6
7.8	85°	7.8	36.6	78.4	112.3	104.5	175.0	188.1	193.3	122.8
5.2	87.5°	5.2	20.9	41.8	60.1	49.6	75.8	75.8	91.4	60.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
14118.7
13768.6
13826.0
13658.8
13428.9
13146.8
12815.0
12417.8
11887.5
11372.8
10727.5
10152.7
9473.4
8820.2
8099.2
7534.8
6832.0
6212.8
5598.9
5005.8
4441.5
3903.3
3362.5
2889.6
2463.7
2058.8
1729.6
1463.1
1212.3
956.2
676.7
478.1
310.9
195.9
112.3
52.3
0.0

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