

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: P636779

Luminaire Tested: **IFLD-S-SA6D-935-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636779
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-935-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23351.9 lumens
Efficiency: N/A
Efficacy: 63.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

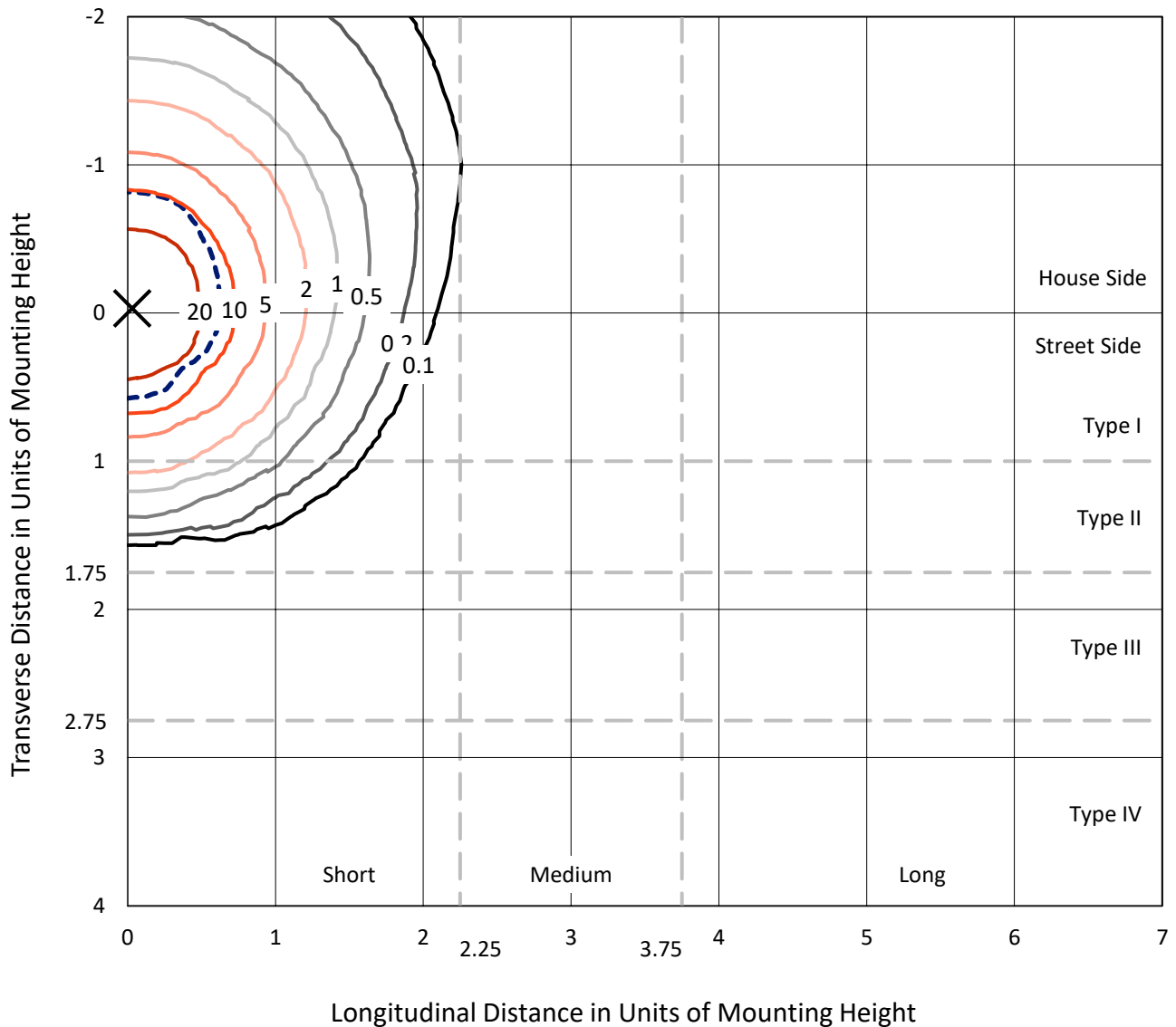
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P636779
 CATALOG NUMBER: IFLD-S-SA6D-935-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

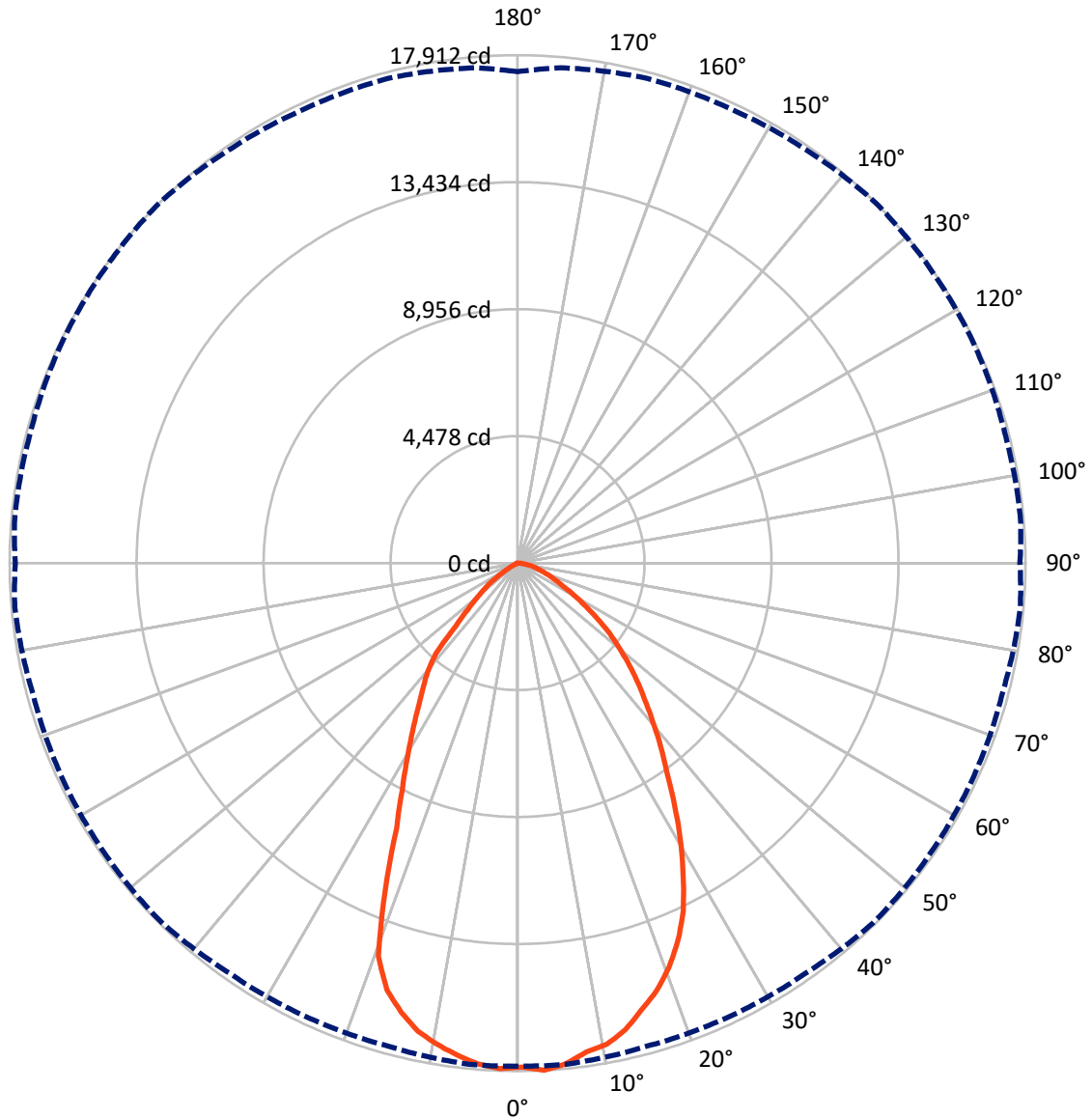
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 44.4 fc
 Type I - Short - N/A

REPORT NUMBER: P636779
CATALOG NUMBER: IFLD-S-SA6D-935-U-77-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P636779

CATALOG NUMBER: IFLD-S-SA6D-935-U-77-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13830.2	0.0	13830.2
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	9521.7	0.0	9521.7
	% Fixture	40.8	0.0	40.8
Total	Lumens	23351.9	0.0	23351.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1666.6	7.1
10°-20°	4469.1	19.1
20°-30°	5450.3	23.3
30°-40°	4976.1	21.3
40°-50°	3596.1	15.4
50°-60°	1963.5	8.4
60°-70°	811.8	3.5
70°-80°	328.8	1.4
80°-90°	89.4	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°	23351.9	100.0
0°-180°	23351.9	100.0



REPORT NUMBER: P636779

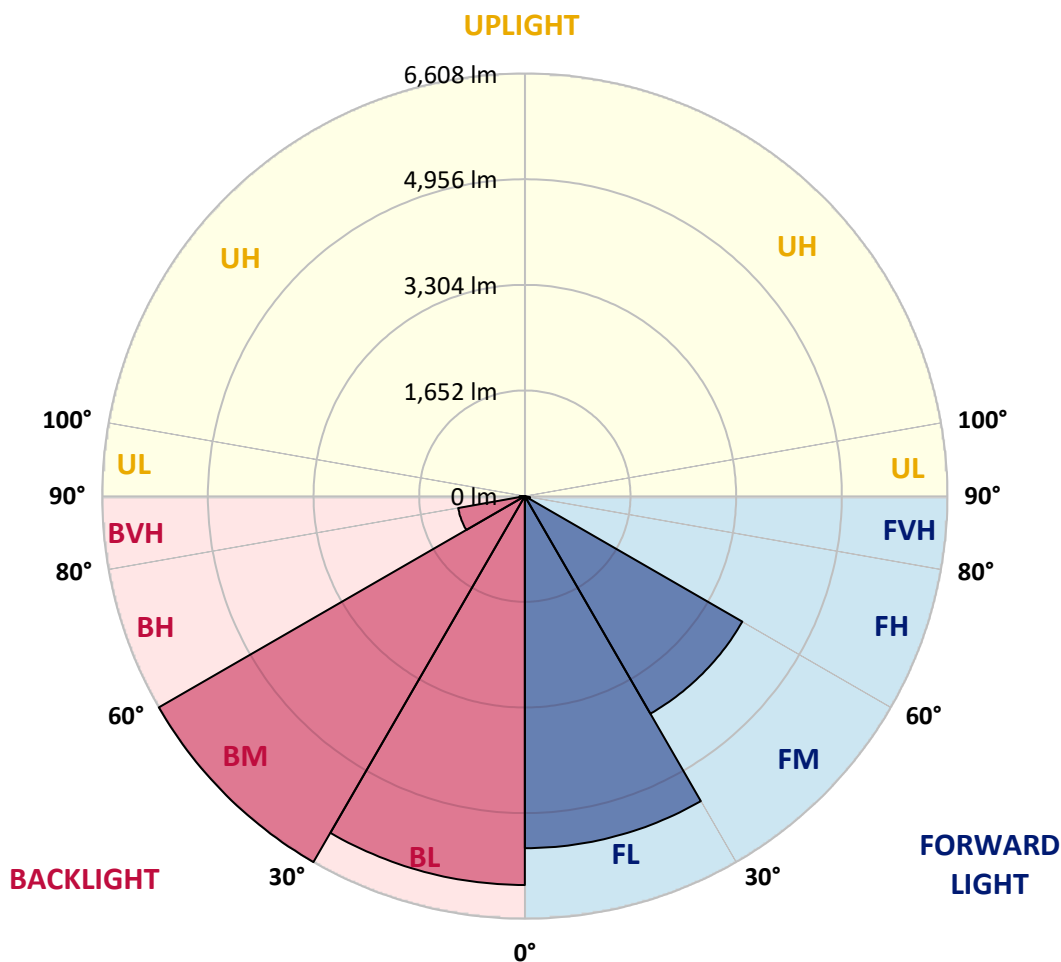
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5504.9	23.6			
FM (30°-60°)	3927.4	16.8			
FH (60°-80°)	82.3	0.4			G0/660
FVH (80°-90°)	7.2	0.0			G0/10
BL (0°-30°)	6081.2	26.0	B5		
BM (30°-60°)	6608.4	28.3	B4/8500		
BH (60°-80°)	1058.4	4.5	B3/2500		G3/2500
BVH (80°-90°)	82.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





REPORT NUMBER: P636779
 CATALOG NUMBER: IFLD-S-SA6D-935-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17770.7	17770.7	17770.7	17770.7	17770.7	17770.7	17770.7	17770.7	17770.7	17770.7
2.5°	17737.8	17760.9	17635.9	17649.0	17672.1	17839.8	17797.0	17757.6	17701.7	17797.0
5°	17714.8	17728.0	17596.4	17550.4	17570.1	17721.4	17583.3	17583.3	17570.1	17553.7
7.5°	17537.2	17543.8	17441.9	17359.7	17412.3	17481.3	17379.4	17428.7	17356.4	17412.3
10°	17270.9	17228.1	17106.5	17083.4	17142.6	17208.4	17139.3	17185.4	17119.6	17162.4
12.5°	16879.6	16813.8	16715.1	16685.5	16787.5	16876.3	16820.4	16794.1	16708.6	16813.8
15°	15370.2	15320.8	15544.4	15935.8	16287.6	16363.3	16304.1	16330.4	16152.8	16182.4
17.5°	12650.6	12558.5	12798.6	13725.9	15047.9	15745.0	15692.4	15521.4	15258.4	15317.5
20°	11496.4	11470.1	11443.8	11664.1	12588.1	14702.6	14775.0	14340.9	13966.0	13883.8
22.5°	10845.3	10835.4	10809.1	10858.4	11101.8	12459.9	13288.6	12887.4	12637.5	12614.4
25°	10250.1	10233.6	10154.7	10217.2	10217.2	10296.1	11358.3	11601.6	11381.3	11355.0
27.5°	9645.0	9615.4	9602.2	9631.8	9480.6	8947.8	9217.5	10404.6	10289.5	10296.1
30°	8990.6	8980.7	8944.6	9007.0	8540.1	7879.1	7708.1	9319.4	9342.5	9335.9
32.5°	8017.2	8060.0	8224.4	8293.4	7523.9	6978.1	6692.0	8063.3	8533.5	8523.6
35°	5823.8	5823.8	6359.8	7356.2	6593.3	6182.3	6027.7	6836.7	7734.4	7767.3
37.5°	4788.0	4804.4	4909.6	5363.4	5689.0	5544.3	5498.3	5754.8	6708.4	6761.0
40°	4307.9	4307.9	4307.9	4120.4	4110.5	4995.1	4968.8	4886.6	5794.2	5909.3
42.5°	3870.5	3880.4	3886.9	3413.4	3150.3	4317.7	4258.5	4133.6	4975.4	5110.2
45°	3420.0	3436.4	3456.1	2854.4	2739.3	3107.6	3604.1	3466.0	4166.5	4340.7
47.5°	2088.2	2114.5	2561.7	2420.3	2433.4	2397.3	2939.9	2916.8	3416.7	3663.3
50°	1410.7	1420.6	1463.4	1535.7	2088.2	1884.3	2081.6	2413.7	2594.6	2969.5
52.5°	1183.8	1200.3	1095.1	996.4	1371.3	1473.2	1453.5	1792.2	1864.5	2328.2
55°	832.0	884.6	835.3	825.4	779.4	1144.4	1101.6	1377.9	1423.9	1769.2
57.5°	85.5	98.7	171.0	614.9	509.7	647.8	785.9	1009.6	1055.6	1305.5
60°	6.6	6.6	16.4	85.5	371.6	388.0	542.6	621.5	710.3	910.9
62.5°	0.0	3.3	6.6	13.2	59.2	207.2	272.9	325.6	427.5	588.6
65°	0.0	0.0	3.3	9.9	13.2	78.9	105.2	171.0	233.5	365.0
67.5°	0.0	0.0	3.3	6.6	9.9	19.7	36.2	62.5	125.0	207.2
70°	0.0	0.0	3.3	6.6	9.9	16.4	26.3	39.5	55.9	111.8
72.5°	0.0	0.0	3.3	3.3	6.6	16.4	19.7	26.3	39.5	55.9
75°	0.0	0.0	3.3	3.3	9.9	19.7	16.4	19.7	26.3	36.2
77.5°	0.0	0.0	3.3	6.6	9.9	19.7	16.4	19.7	19.7	23.0
80°	0.0	0.0	3.3	6.6	13.2	23.0	19.7	19.7	16.4	16.4
82.5°	0.0	0.0	3.3	9.9	13.2	29.6	29.6	26.3	13.2	9.9
85°	0.0	0.0	6.6	13.2	19.7	32.9	32.9	26.3	9.9	6.6
87.5°	0.0	0.0	6.6	9.9	16.4	23.0	32.9	26.3	9.9	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636779

CATALOG NUMBER: IFLD-S-SA6D-935-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
17770.7	0°	17770.7	17770.7	17770.7	17770.7	17770.7	17770.7	17770.7	17770.7	17770.7
17714.8	2.5°	17803.6	17783.9	17849.6	17876.0	17912.1	17774.0	17688.5	17691.8	17534.0
17514.2	5°	17619.5	17622.7	17708.2	17701.7	17737.8	17662.2	17629.3	17573.4	17435.3
17261.0	7.5°	17386.0	17356.4	17438.6	17501.1	17409.0	17461.6	17386.0	17412.3	17330.1
17037.4	10°	17205.1	17136.1	17211.7	17254.4	17257.7	17205.1	17132.8	17063.7	17034.1
16688.8	12.5°	16803.9	16715.1	16843.4	16902.6	16892.7	16790.8	16708.6	16725.0	16629.6
16077.2	15°	16251.5	16254.8	16346.8	16402.7	16350.1	16327.1	16333.7	16294.2	16212.0
15232.0	17.5°	15406.3	15455.7	15699.0	15833.8	15863.4	15817.4	15794.4	15748.3	15666.1
13883.8	20°	13998.9	14294.8	14728.9	15146.5	15228.8	15215.6	15133.4	15113.7	15067.6
12548.7	22.5°	12762.4	12982.8	13485.9	14137.0	14472.4	14505.3	14406.6	14377.1	14327.7
11355.0	25°	11483.2	11720.0	12173.8	12880.8	13574.7	13716.1	13699.6	13610.8	13558.2
10296.1	27.5°	10404.6	10641.4	11052.4	11690.4	12433.6	12887.4	12930.1	12788.7	12785.4
9352.3	30°	9431.2	9756.8	10069.2	10588.8	11308.9	11989.6	12062.0	11963.3	11973.2
8487.5	32.5°	8668.3	8938.0	9204.3	9552.9	10151.4	10943.9	11226.7	11134.7	11098.5
7767.3	35°	7889.0	8073.1	8346.1	8665.0	9072.8	9858.7	10348.7	10279.7	10243.5
6793.9	37.5°	7001.1	7316.8	7514.1	7872.5	8191.5	8816.3	9506.9	9497.0	9421.4
5965.2	40°	6090.2	6422.3	6721.6	7083.3	7329.9	7826.5	8592.7	8589.4	8599.3
5106.9	42.5°	5264.8	5570.6	5932.3	6327.0	6563.7	6925.5	7747.6	7793.6	7849.5
4399.9	45°	4518.3	4794.5	5130.0	5610.1	5896.2	6103.3	6833.4	7043.8	7040.5
3768.6	47.5°	3847.5	4107.3	4390.1	4857.0	5222.0	5409.5	6014.6	6313.8	6294.1
3091.1	50°	3229.2	3459.4	3755.4	4094.1	4584.1	4748.5	5199.0	5593.6	5564.0
2463.0	52.5°	2597.9	2916.8	3166.8	3475.9	3992.2	4153.3	4501.9	4886.6	4863.6
1848.1	55°	2025.7	2334.8	2637.3	2903.7	3337.8	3577.8	3827.7	4222.4	4215.8
1446.9	57.5°	1532.4	1871.1	2157.2	2410.4	2755.7	3051.7	3252.3	3610.7	3656.7
989.8	60°	1134.5	1394.3	1703.4	1986.2	2259.2	2565.0	2699.8	3051.7	3071.4
677.4	62.5°	772.8	1058.9	1361.4	1617.9	1821.8	2137.5	2259.2	2548.5	2584.7
434.1	65°	536.0	720.2	1065.5	1249.6	1499.5	1769.2	1890.9	2121.0	2193.4
249.9	67.5°	355.2	513.0	832.0	999.7	1246.3	1430.5	1585.0	1772.5	1851.4
157.8	70°	194.0	378.2	595.2	789.2	1003.0	1180.5	1331.8	1483.1	1552.1
72.3	72.5°	131.5	253.2	414.3	624.8	809.0	983.2	1118.1	1229.9	1233.2
42.7	75°	65.8	171.0	315.7	483.4	631.4	802.4	924.1	989.8	910.9
26.3	77.5°	39.5	125.0	256.5	388.0	513.0	647.8	716.9	753.1	624.8
19.7	80°	23.0	88.8	200.6	309.1	355.2	476.8	542.6	552.5	417.6
13.2	82.5°	16.4	65.8	157.8	226.9	217.0	335.4	407.8	394.6	266.4
9.9	85°	9.9	46.0	98.7	141.4	131.5	220.3	236.8	243.3	154.6
6.6	87.5°	6.6	26.3	52.6	75.6	62.5	95.4	95.4	115.1	75.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°

17770.7
17330.1
17402.4
17192.0
16902.6
16547.4
16129.8
15629.9
14962.4
14314.6
13502.3
12778.9
11923.9
11101.8
10194.2
9483.9
8599.3
7819.9
7047.1
6300.6
5590.3
4912.9
4232.2
3637.0
3101.0
2591.3
2176.9
1841.5
1525.8
1203.6
851.7
601.8
391.3
246.6
141.4
65.8
0.0

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