

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: P638198

Luminaire Tested: **IFLD-S-SA6B-750-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638198
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-750-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26263.1 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

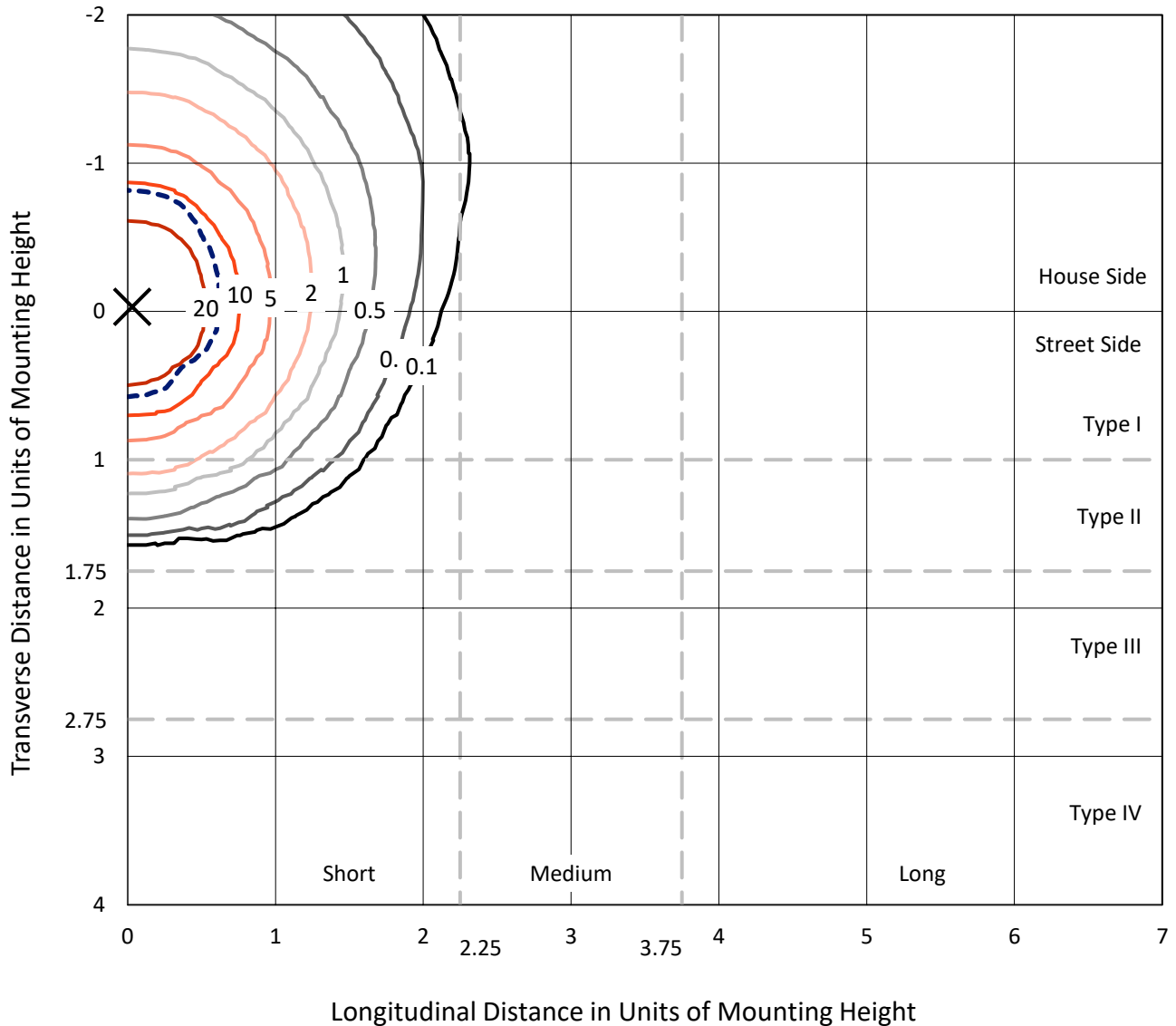
Input Watts (W): 244.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

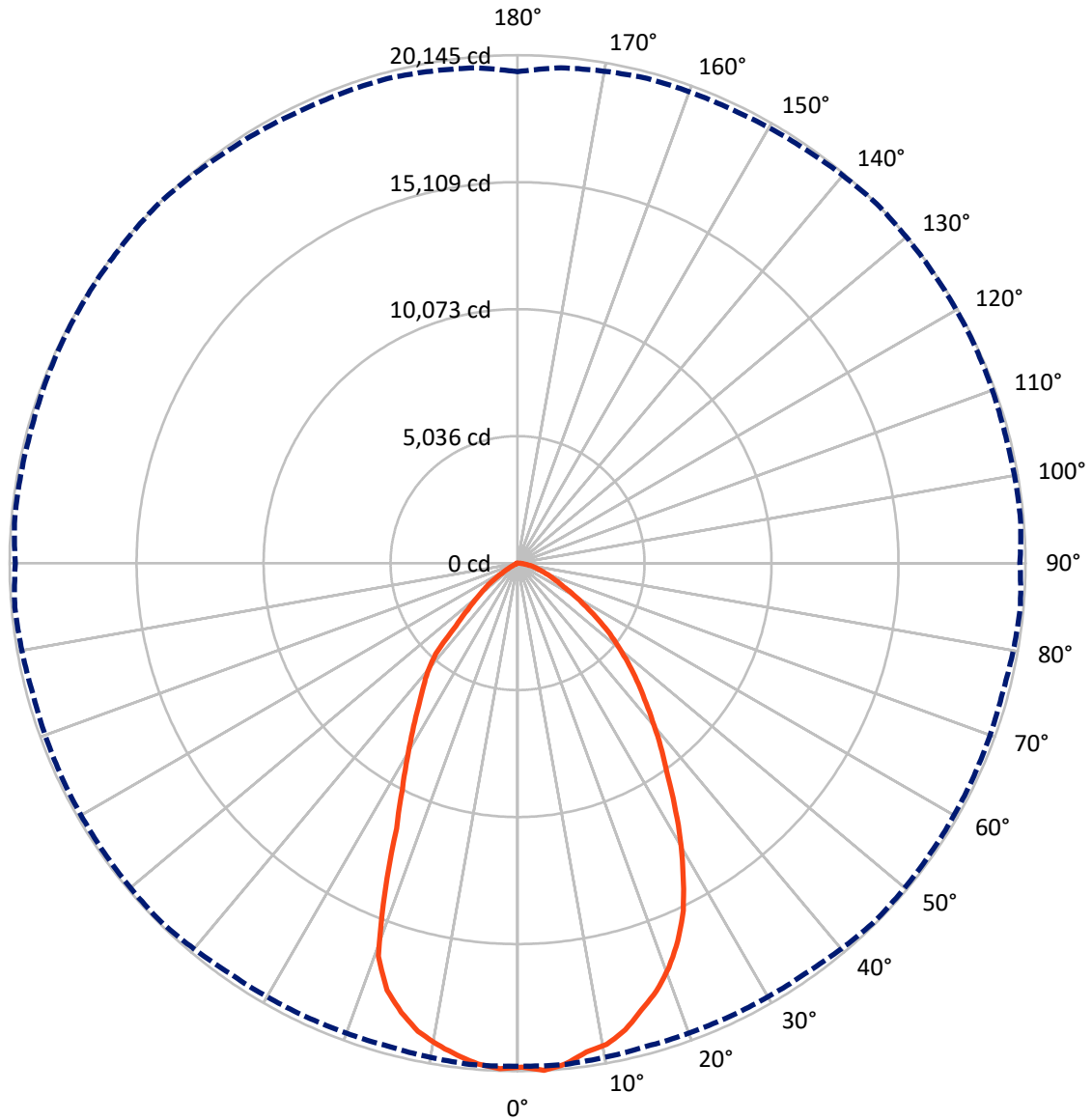
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 50 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15554.3	0.0	15554.3
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	10708.8	0.0	10708.8
	% Fixture	40.8	0.0	40.8
Total	Lumens	26263.1	0.0	26263.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1874.4	7.1
10°-20°	5026.3	19.1
20°-30°	6129.8	23.3
30°-40°	5596.5	21.3
40°-50°	4044.4	15.4
50°-60°	2208.3	8.4
60°-70°	913.1	3.5
70°-80°	369.8	1.4
80°-90°	100.6	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°	26263.1	100.0
0°-180°	26263.1	100.0



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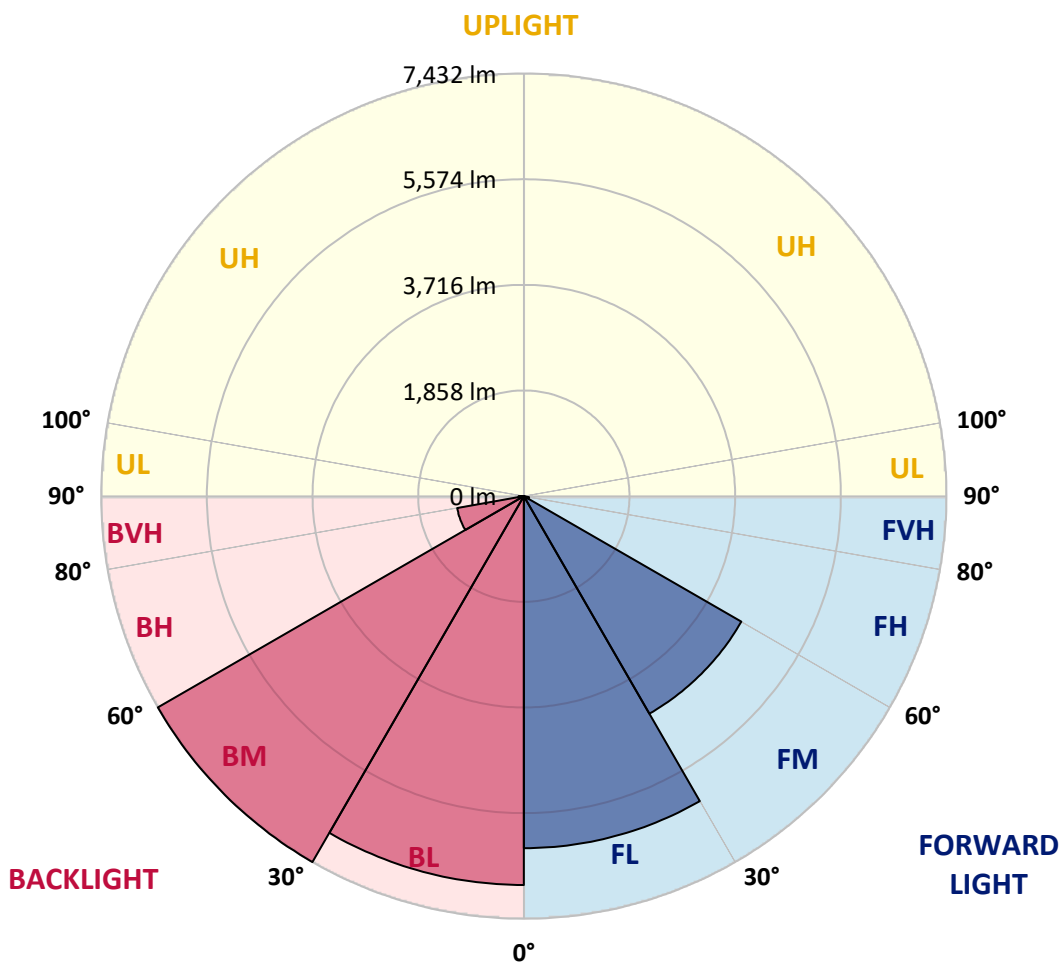
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6191.2	23.6			
FM (30°-60°)	4417.0	16.8			
FH (60°-80°)	92.6	0.4			G0/660
FVH (80°-90°)	8.1	0.0			G0/10
BL (0°-30°)	6839.3	26.0	B5		
BM (30°-60°)	7432.2	28.3	B4/8500		
BH (60°-80°)	1190.3	4.5	B3/2500		G3/2500
BVH (80°-90°)	92.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	19986.1	19986.1	19986.1	19986.1	19986.1	19986.1	19986.1	19986.1	19986.1	19986.1
2.5°	19949.1	19975.0	19834.5	19849.3	19875.2	20063.8	20015.7	19971.3	19908.5	20015.7
5°	19923.3	19938.0	19790.1	19738.3	19760.5	19930.6	19775.3	19775.3	19760.5	19742.0
7.5°	19723.5	19730.9	19616.3	19523.8	19583.0	19660.7	19546.0	19601.5	19520.1	19583.0
10°	19424.0	19375.9	19239.0	19213.2	19279.7	19353.7	19276.0	19327.8	19253.8	19301.9
12.5°	18983.9	18909.9	18798.9	18765.7	18880.3	18980.2	18917.3	18887.7	18791.5	18909.9
15°	17286.3	17230.8	17482.3	17922.4	18318.1	18403.2	18336.6	18366.2	18166.5	18199.8
17.5°	14227.7	14124.2	14394.2	15437.1	16923.9	17707.9	17648.7	17456.4	17160.6	17227.1
20°	12929.6	12900.0	12870.4	13118.2	14157.5	16535.5	16616.9	16128.7	15707.1	15614.6
22.5°	12197.3	12186.2	12156.6	12212.1	12485.8	14013.2	14945.2	14494.0	14212.9	14187.0
25°	11527.9	11509.4	11420.6	11490.9	11490.9	11579.7	12774.3	13047.9	12800.1	12770.6
27.5°	10847.4	10814.1	10799.3	10832.6	10662.5	10063.3	10366.6	11701.7	11572.3	11579.7
30°	10111.4	10100.3	10059.6	10129.9	9604.7	8861.4	8669.0	10481.3	10507.1	10499.7
32.5°	9016.7	9064.8	9249.7	9327.4	8461.9	7848.0	7526.2	9068.5	9597.3	9586.2
35°	6549.9	6549.9	7152.7	8273.3	7415.3	6953.0	6779.2	7689.0	8698.6	8735.6
37.5°	5384.9	5403.4	5521.7	6032.1	6398.2	6235.5	6183.7	6472.2	7544.7	7603.9
40°	4844.9	4844.9	4844.9	4634.1	4623.0	5617.9	5588.3	5495.8	6516.6	6646.0
42.5°	4353.0	4364.1	4371.5	3838.9	3543.1	4856.0	4789.4	4648.9	5595.7	5747.3
45°	3846.3	3864.8	3887.0	3210.2	3080.8	3495.0	4053.4	3898.1	4685.9	4881.9
47.5°	2348.5	2378.1	2881.0	2722.0	2736.8	2696.1	3306.4	3280.5	3842.6	4120.0
50°	1586.6	1597.7	1645.8	1727.2	2348.5	2119.2	2341.1	2714.6	2918.0	3339.7
52.5°	1331.4	1349.9	1231.6	1120.6	1542.2	1656.9	1634.7	2015.6	2097.0	2618.5
55°	935.7	994.9	939.4	928.3	876.5	1287.0	1239.0	1549.6	1601.4	1989.7
57.5°	96.2	111.0	192.3	691.6	573.3	728.6	883.9	1135.4	1187.2	1468.3
60°	7.4	7.4	18.5	96.2	417.9	436.4	610.2	699.0	798.9	1024.5
62.5°	0.0	3.7	7.4	14.8	66.6	233.0	307.0	366.1	480.8	662.0
65°	0.0	0.0	3.7	11.1	14.8	88.8	118.3	192.3	262.6	410.5
67.5°	0.0	0.0	3.7	7.4	11.1	22.2	40.7	70.3	140.5	233.0
70°	0.0	0.0	3.7	7.4	11.1	18.5	29.6	44.4	62.9	125.7
72.5°	0.0	0.0	3.7	3.7	7.4	18.5	22.2	29.6	44.4	62.9
75°	0.0	0.0	3.7	3.7	11.1	22.2	18.5	22.2	29.6	40.7
77.5°	0.0	0.0	3.7	7.4	11.1	22.2	18.5	22.2	22.2	25.9
80°	0.0	0.0	3.7	7.4	14.8	25.9	22.2	22.2	18.5	18.5
82.5°	0.0	0.0	3.7	11.1	14.8	33.3	33.3	29.6	14.8	11.1
85°	0.0	0.0	7.4	14.8	22.2	37.0	37.0	29.6	11.1	7.4
87.5°	0.0	0.0	7.4	11.1	18.5	25.9	37.0	29.6	11.1	3.7
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°
19986.1	0°	19986.1	19986.1	19986.1	19986.1	19986.1	19986.1	19986.1	19986.1	19986.1
19923.3	2.5°	20023.1	20000.9	20074.9	20104.5	20145.2	19989.8	19893.7	19897.4	19719.8
19697.6	5°	19816.0	19819.7	19915.9	19908.5	19949.1	19864.1	19827.1	19764.2	19608.9
19412.9	7.5°	19553.4	19520.1	19612.6	19682.9	19579.3	19638.5	19553.4	19583.0	19490.5
19161.4	10°	19350.0	19272.3	19357.4	19405.5	19409.2	19350.0	19268.6	19191.0	19157.7
18769.4	12.5°	18898.8	18798.9	18943.2	19009.7	18998.7	18884.0	18791.5	18810.0	18702.8
18081.5	15°	18277.5	18281.2	18384.7	18447.6	18388.4	18362.5	18369.9	18325.5	18233.1
17131.0	17.5°	17327.0	17382.5	17656.1	17807.8	17841.1	17789.3	17763.4	17711.6	17619.2
15614.6	20°	15744.1	16076.9	16565.1	17034.8	17127.3	17112.5	17020.0	16997.8	16946.0
14113.1	22.5°	14353.5	14601.3	15167.1	15899.4	16276.6	16313.6	16202.7	16169.4	16113.9
12770.6	25°	12914.8	13181.1	13691.5	14486.6	15267.0	15426.0	15407.5	15307.7	15248.5
11579.7	27.5°	11701.7	11968.0	12430.3	13147.8	13983.6	14494.0	14542.1	14383.1	14379.4
10518.2	30°	10607.0	10973.1	11324.5	11908.8	12718.8	13484.3	13565.7	13454.8	13465.9
9545.6	32.5°	9749.0	10052.2	10351.8	10743.8	11416.9	12308.3	12626.3	12522.8	12482.1
8735.6	35°	8872.4	9079.6	9386.5	9745.3	10203.9	11087.8	11638.8	11561.2	11520.5
7640.9	37.5°	7873.9	8228.9	8450.8	8854.0	9212.7	9915.4	10692.1	10681.0	10595.9
6708.9	40°	6849.4	7223.0	7559.5	7966.3	8243.7	8802.2	9663.9	9660.2	9671.3
5743.6	42.5°	5921.1	6265.1	6671.9	7115.7	7382.0	7788.8	8713.4	8765.2	8828.1
4948.5	45°	5081.6	5392.3	5769.5	6309.5	6631.2	6864.2	7685.3	7922.0	7918.3
4238.4	47.5°	4327.1	4619.3	4937.4	5462.5	5873.1	6083.9	6764.4	7100.9	7078.7
3476.5	50°	3631.8	3890.7	4223.6	4604.5	5155.6	5340.5	5847.2	6291.0	6257.7
2770.1	52.5°	2921.7	3280.5	3561.6	3909.2	4489.9	4671.1	5063.1	5495.8	5469.9
2078.5	55°	2278.2	2625.9	2966.1	3265.7	3753.9	4023.9	4304.9	4748.7	4741.3
1627.3	57.5°	1723.5	2104.4	2426.1	2710.9	3099.3	3432.1	3657.7	4060.8	4112.6
1113.2	60°	1275.9	1568.1	1915.8	2233.8	2540.8	2884.7	3036.4	3432.1	3454.3
761.9	62.5°	869.1	1190.9	1531.1	1819.6	2048.9	2404.0	2540.8	2866.3	2906.9
488.2	65°	602.8	809.9	1198.3	1405.4	1686.5	1989.7	2126.6	2385.5	2466.8
281.1	67.5°	399.4	576.9	935.7	1124.3	1401.7	1608.8	1782.6	1993.4	2082.2
177.5	70°	218.2	425.3	669.4	887.6	1128.0	1327.7	1497.8	1668.0	1745.6
81.4	72.5°	147.9	284.8	466.0	702.7	909.8	1105.8	1257.5	1383.2	1386.9
48.1	75°	74.0	192.3	355.0	543.7	710.1	902.4	1039.2	1113.2	1024.5
29.6	77.5°	44.4	140.5	288.5	436.4	576.9	728.6	806.3	846.9	702.7
22.2	80°	25.9	99.9	225.6	347.6	399.4	536.3	610.2	621.3	469.7
14.8	82.5°	18.5	74.0	177.5	255.2	244.1	377.2	458.6	443.8	299.6
11.1	85°	11.1	51.8	111.0	159.0	147.9	247.8	266.3	273.7	173.8
7.4	87.5°	7.4	29.6	59.2	85.1	70.3	107.3	107.3	129.4	85.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
19986.1
19490.5
19571.9
19335.2
19009.7
18610.3
18140.6
17578.5
16827.7
16099.1
15185.6
14372.0
13410.4
12485.8
11465.0
10666.2
9671.3
8794.8
7925.7
7086.1
6287.3
5525.4
4759.8
4090.4
3487.6
2914.3
2448.3
2071.1
1716.1
1353.6
957.9
676.8
440.1
277.4
159.0
74.0
0.0

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