

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: P637884

Luminaire Tested: **IFLD-M-SA4B-735-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637884  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-735-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (64) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18994.6 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G1

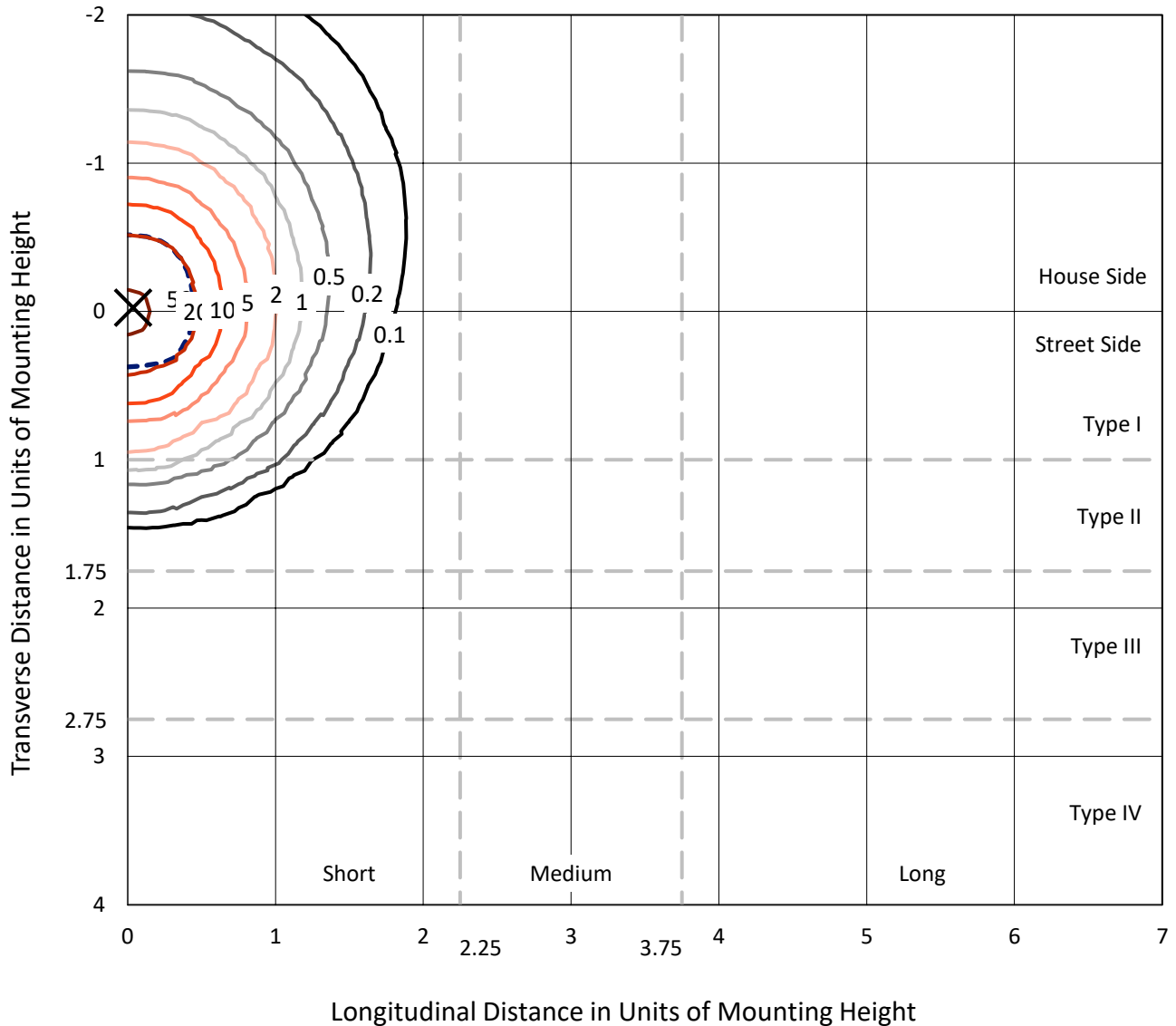
Input Watts (W): 166.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

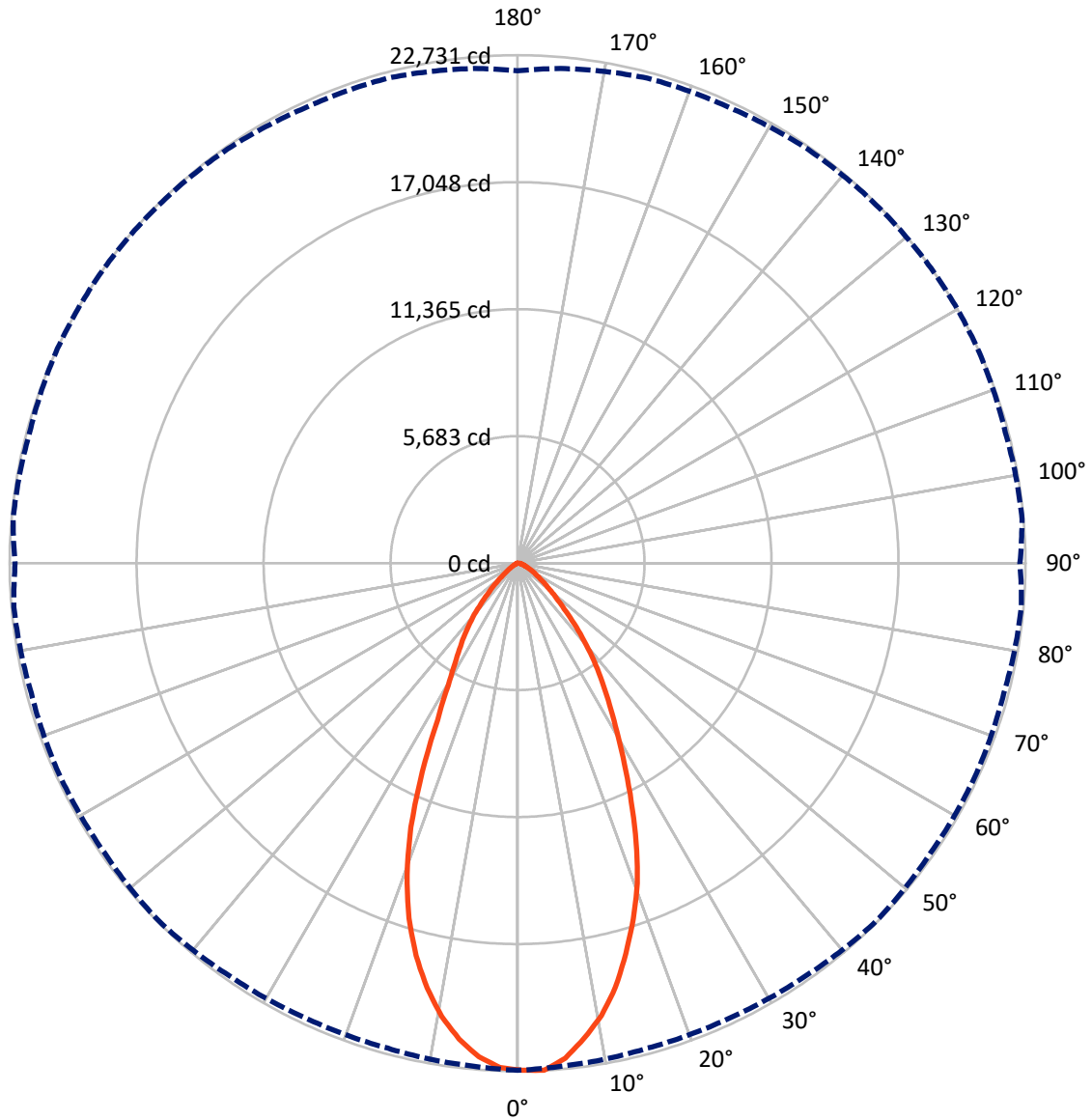
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 56.7 fc  
 Type I - Short - N/A

REPORT NUMBER: P637884  
CATALOG NUMBER: IFLD-M-SA4B-735-U-66-VI

### Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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CATALOG NUMBER: IFLD-M-SA4B-735-U-66-VI

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10778.3	0.0	10778.3
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	8216.3	0.0	8216.3
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	18994.6	0.0	18994.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2060.7	10.8
10°-20°	4912.3	25.9
20°-30°	5003.0	26.3
30°-40°	3730.7	19.6
40°-50°	1949.0	10.3
50°-60°	819.8	4.3
60°-70°	334.8	1.8
70°-80°	140.9	0.7
80°-90°	43.4	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°	18994.6	100.0
0°-180°	18994.6	100.0



REPORT NUMBER: P637884

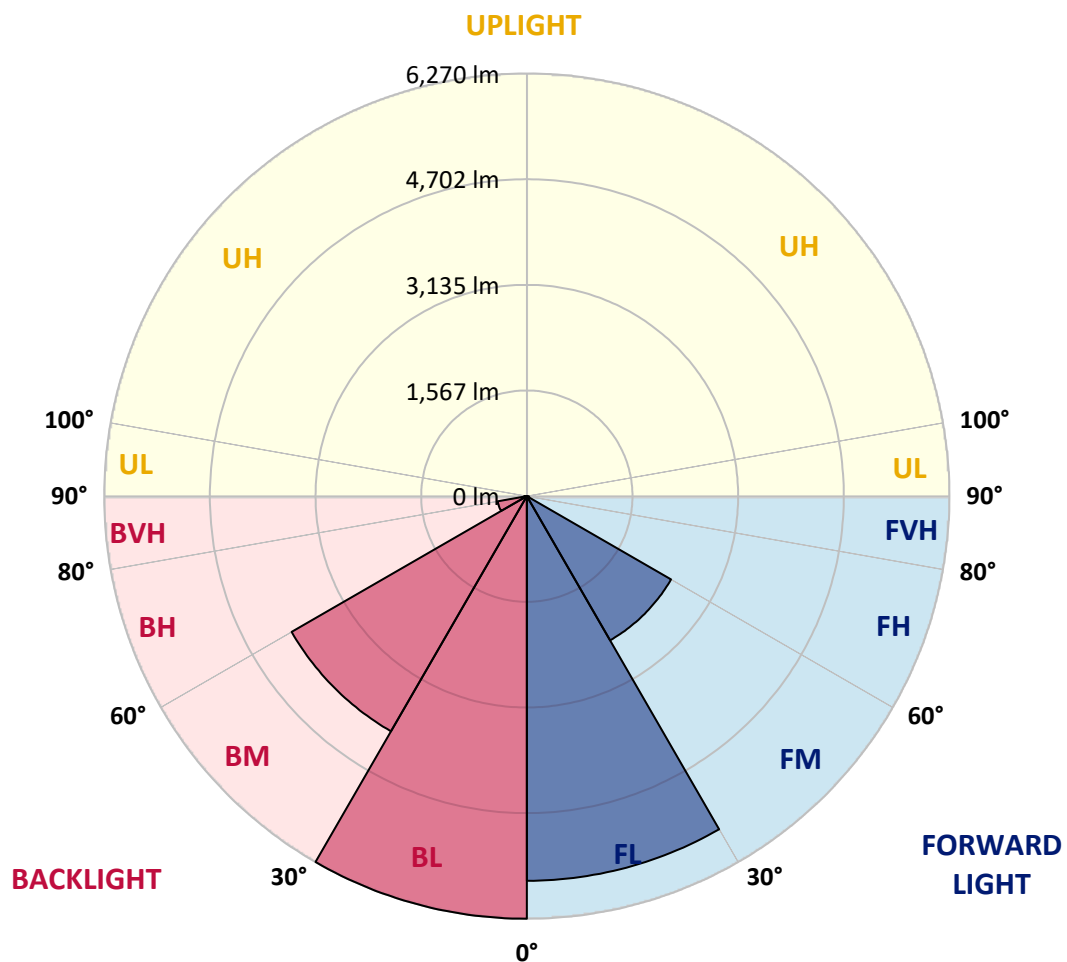
CATALOG NUMBER: IFLD-M-SA4B-735-U-66-VI

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5706.2	30.0			
FM (30°-60°)	2470.3	13.0			
FH (60°-80°)	35.7	0.2			G0/660
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	6269.8	33.0	B5		
BM (30°-60°)	4029.2	21.2	B3/5000		
BH (60°-80°)	439.9	2.3	B1/500		G1/500
BVH (80°-90°)	39.4	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-G1**

Type I Short





REPORT NUMBER: P637884  
 CATALOG NUMBER: IFLD-M-SA4B-735-U-66-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	22694.0	22694.0	22694.0	22694.0	22694.0	22694.0	22694.0	22694.0	22694.0	22694.0
2.5°	22696.5	22603.7	22472.0	22459.8	22528.1	22676.9	22581.8	22586.7	22528.1	22628.1
5°	22340.2	22252.4	22162.1	22042.6	22142.6	22206.0	22157.2	22103.5	22027.9	22125.5
7.5°	21666.8	21618.0	21483.8	21430.1	21491.1	21561.9	21457.0	21442.3	21337.4	21464.3
10°	20637.1	20617.6	20485.9	20454.1	20507.8	20615.2	20568.8	20559.1	20493.2	20481.0
12.5°	19568.4	19492.8	19329.3	19319.6	19400.1	19561.1	19436.7	19317.1	19353.7	19385.4
15°	16816.2	16735.6	17140.7	17777.5	18111.8	18099.6	18136.2	17992.2	17948.3	17962.9
17.5°	13368.5	13231.9	13378.3	14364.0	15952.4	16874.7	16621.0	16311.1	16145.2	16035.4
20°	11538.5	11545.9	11519.0	11772.8	12763.4	14866.6	14805.6	14207.9	13990.7	13900.4
22.5°	10425.9	10384.4	10325.9	10406.4	10672.4	11907.0	12734.1	12185.1	12109.5	12009.5
25°	9335.3	9335.3	9264.5	9345.0	9420.7	9437.7	10267.3	10491.8	10345.4	10345.4
27.5°	8391.0	8342.2	8310.5	8347.1	8247.0	7766.4	7871.3	9020.5	8920.5	8859.5
30°	7454.1	7439.4	7385.7	7434.5	7063.7	6522.0	6302.4	7612.7	7717.6	7695.6
32.5°	6153.6	6212.1	6451.2	6526.9	5892.5	5455.7	5245.9	6319.5	6739.2	6722.1
35°	4182.1	4230.9	4504.2	5406.9	4884.8	4572.5	4511.5	5026.3	5716.8	5782.7
37.5°	3330.5	3323.2	3401.3	3562.3	3925.9	3850.2	3833.2	3967.4	4662.8	4692.0
40°	2744.9	2735.2	2732.7	2601.0	2510.7	3201.2	3154.9	3074.3	3677.0	3735.6
42.5°	2213.0	2222.8	2230.1	1942.2	1810.4	2469.2	2442.4	2359.4	2884.0	2952.3
45°	1737.2	1734.8	1749.4	1446.9	1410.3	1578.7	1825.1	1759.2	2176.4	2249.6
47.5°	900.3	932.1	1129.7	1119.9	1137.0	1119.9	1381.0	1363.9	1637.2	1754.3
50°	605.1	614.9	631.9	634.4	895.5	824.7	936.9	1061.4	1146.8	1327.3
52.5°	468.5	475.8	431.9	405.0	549.0	610.0	614.9	734.4	800.3	983.3
55°	261.1	292.8	314.8	317.2	302.6	451.4	449.0	544.1	595.3	717.3
57.5°	34.2	41.5	63.4	205.0	202.5	251.3	314.8	395.3	424.6	524.6
60°	2.4	4.9	7.3	31.7	134.2	146.4	214.7	246.4	295.2	368.4
62.5°	0.0	0.0	2.4	7.3	26.8	85.4	112.2	129.3	173.2	241.6
65°	0.0	0.0	2.4	4.9	9.8	31.7	43.9	70.8	102.5	148.8
67.5°	0.0	0.0	2.4	4.9	7.3	12.2	19.5	31.7	53.7	90.3
70°	0.0	0.0	2.4	4.9	7.3	9.8	14.6	19.5	29.3	48.8
72.5°	0.0	0.0	2.4	2.4	4.9	12.2	12.2	14.6	19.5	26.8
75°	0.0	0.0	2.4	4.9	7.3	12.2	12.2	12.2	14.6	17.1
77.5°	0.0	0.0	2.4	4.9	7.3	12.2	9.8	12.2	12.2	12.2
80°	0.0	0.0	2.4	4.9	7.3	12.2	14.6	12.2	9.8	9.8
82.5°	0.0	0.0	2.4	7.3	7.3	17.1	17.1	17.1	7.3	7.3
85°	0.0	0.0	4.9	7.3	12.2	19.5	19.5	14.6	7.3	4.9
87.5°	0.0	0.0	2.4	4.9	4.9	9.8	14.6	12.2	4.9	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637884

CATALOG NUMBER: IFLD-M-SA4B-735-U-66-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
22694.0	0°	22694.0	22694.0	22694.0	22694.0	22694.0	22694.0	22694.0	22694.0	22694.0
22481.7	2.5°	22662.3	22601.3	22716.0	22730.6	22681.8	22620.8	22479.3	22467.1	22220.7
21984.0	5°	22232.9	22132.8	22206.0	22254.8	22237.7	22171.9	22113.3	22059.6	21837.6
21176.4	7.5°	21432.6	21396.0	21430.1	21466.7	21537.5	21466.7	21442.3	21386.2	21166.6
20380.9	10°	20544.4	20476.1	20605.4	20588.3	20568.8	20549.3	20446.8	20456.6	20197.9
19297.6	12.5°	19453.8	19339.1	19463.5	19478.2	19463.5	19395.2	19280.5	19329.3	19092.6
17833.6	15°	17987.3	17975.1	18065.4	18124.0	18165.5	18092.3	18053.2	18077.6	17936.1
15950.0	17.5°	16186.7	16345.3	16640.5	16740.5	16743.0	16818.6	16796.6	16767.4	16662.5
13863.8	20°	14068.8	14373.8	14827.6	15293.6	15427.8	15364.4	15335.1	15388.8	15232.6
11904.5	22.5°	12114.4	12375.4	12902.5	13583.2	13976.1	14015.1	14007.8	13961.4	13900.4
10335.6	25°	10455.2	10687.0	11192.1	11814.3	12568.2	12680.4	12685.3	12670.7	12617.0
8913.2	27.5°	9054.7	9335.3	9613.4	10169.7	10972.5	11436.1	11377.5	11360.4	11340.9
7712.7	30°	7785.9	8139.7	8400.8	8747.2	9467.0	10094.1	10155.1	10125.8	10079.5
6719.6	32.5°	6780.6	6990.5	7322.3	7556.5	8073.8	8783.8	9018.1	8996.1	8954.6
5824.2	35°	5907.1	5990.1	6251.2	6512.2	6856.3	7544.3	7890.8	7842.0	7834.7
4745.7	37.5°	4865.3	5143.4	5287.4	5550.9	5792.5	6326.8	6805.0	6783.1	6785.5
3816.1	40°	3928.3	4089.4	4374.8	4596.9	4818.9	5209.3	5741.2	5755.9	5751.0
2954.8	42.5°	3015.8	3171.9	3472.1	3713.6	3911.2	4152.8	4660.3	4677.4	4699.4
2300.9	45°	2354.6	2454.6	2674.2	2925.5	3135.3	3281.7	3667.3	3777.0	3779.5
1783.6	47.5°	1827.5	1942.2	2098.4	2339.9	2544.9	2649.8	2930.4	3079.2	3071.9
1368.8	50°	1434.7	1539.6	1666.5	1856.8	2078.8	2161.8	2369.2	2515.6	2508.3
1032.1	52.5°	1098.0	1232.2	1344.4	1490.8	1708.0	1778.7	1927.6	2095.9	2071.5
756.4	55°	832.0	968.7	1073.6	1195.6	1393.2	1483.5	1586.0	1720.2	1725.0
585.6	57.5°	627.1	768.6	863.7	988.2	1137.0	1237.1	1315.1	1459.1	1456.7
400.2	60°	449.0	570.9	685.6	814.9	929.6	1044.3	1098.0	1234.6	1239.5
283.0	62.5°	324.5	439.2	549.0	661.2	763.7	875.9	924.7	1032.1	1046.7
185.4	65°	226.9	307.4	434.3	519.7	634.4	717.3	780.8	873.5	890.6
109.8	67.5°	146.4	222.0	344.0	419.7	524.6	595.3	661.2	734.4	756.4
70.8	70°	87.8	168.4	256.2	336.7	431.9	495.3	558.7	622.2	634.4
34.2	72.5°	56.1	117.1	185.4	273.3	346.5	414.8	470.9	517.3	480.7
22.0	75°	31.7	80.5	146.4	214.7	280.6	346.5	392.8	417.2	334.3
14.6	77.5°	19.5	58.6	119.6	173.2	217.2	278.2	307.4	322.1	239.1
9.8	80°	12.2	43.9	100.0	141.5	141.5	205.0	239.1	251.3	173.2
7.3	82.5°	9.8	31.7	78.1	107.4	95.2	153.7	187.9	190.3	122.0
4.9	85°	7.3	24.4	48.8	70.8	65.9	107.4	109.8	122.0	80.5
4.9	87.5°	4.9	14.6	29.3	41.5	36.6	51.2	58.6	65.9	43.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
22694.0
22027.9
21659.5
21120.2
20110.1
19024.3
17765.3
16506.3
15120.4
13783.3
12436.4
11226.2
10020.9
8844.8
7754.2
6707.4
5665.6
4626.2
3716.1
3045.1
2508.3
2074.0
1725.0
1451.8
1227.3
1041.9
885.7
753.9
624.6
446.5
317.2
224.5
161.0
112.2
73.2
39.0
0.0

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