

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: P637909

Luminaire Tested: **IFLD-S-SA6C-740-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637909  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-740-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (96) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35037 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

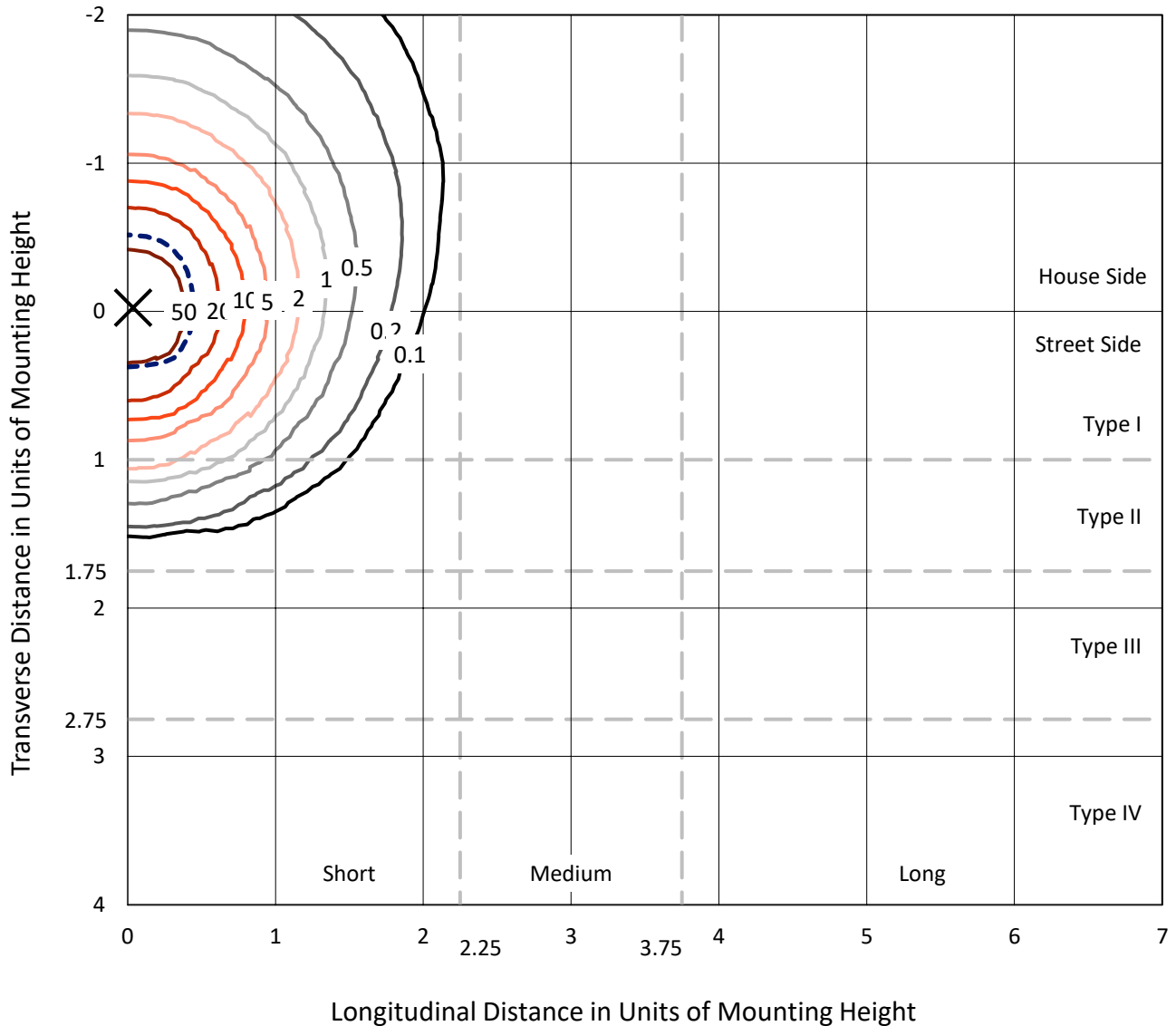
Input Watts (W): 321.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

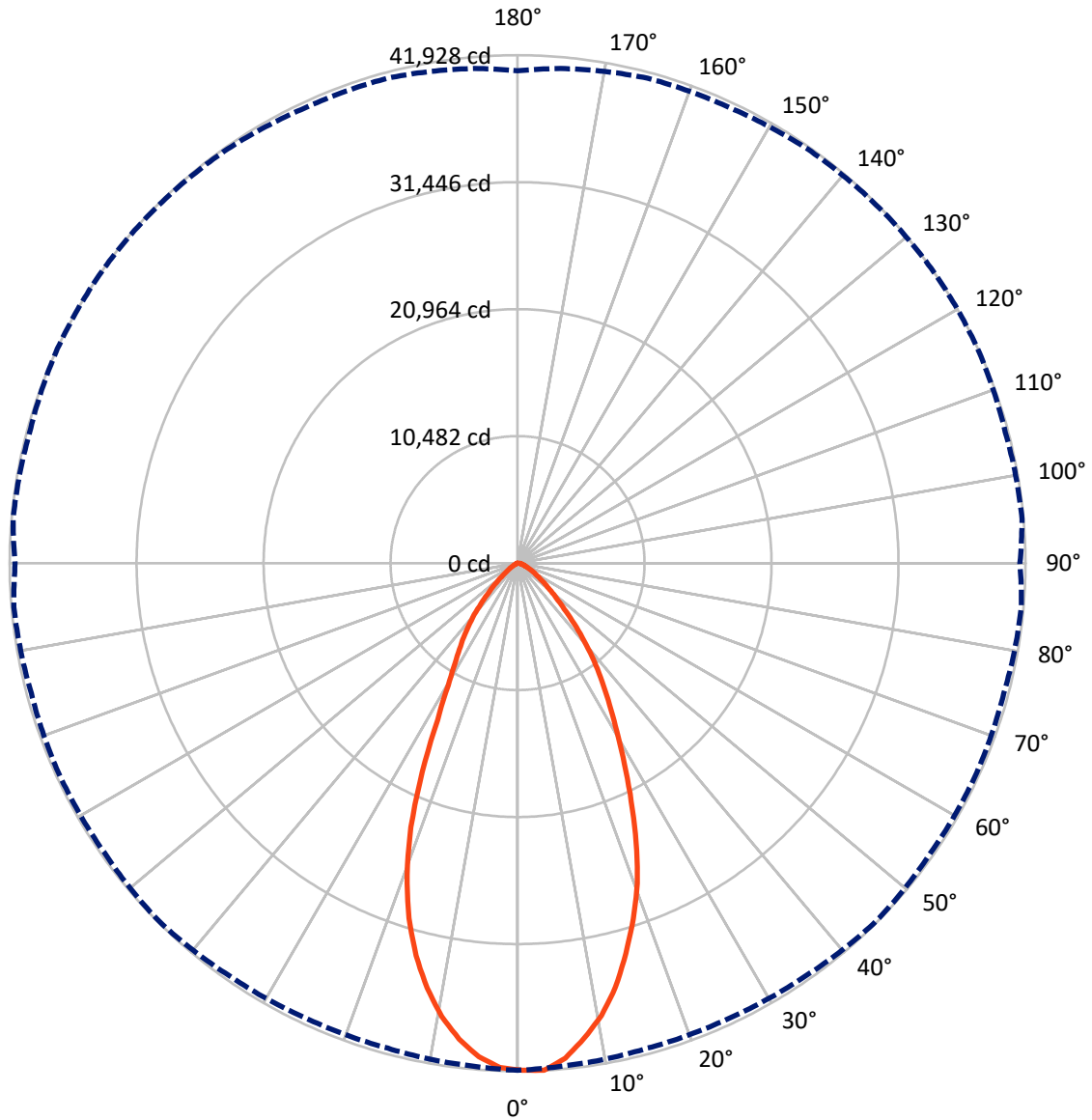
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 104.7 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19881.4	0.0	19881.4
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	15155.6	0.0	15155.6
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	35037.0	0.0	35037.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3801.1	10.8
10°-20°	9061.0	25.9
20°-30°	9228.5	26.3
30°-40°	6881.6	19.6
40°-50°	3595.1	10.3
50°-60°	1512.1	4.3
60°-70°	617.6	1.8
70°-80°	259.9	0.7
80°-90°	80.1	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°	35037.0	100.0
0°-180°	35037.0	100.0



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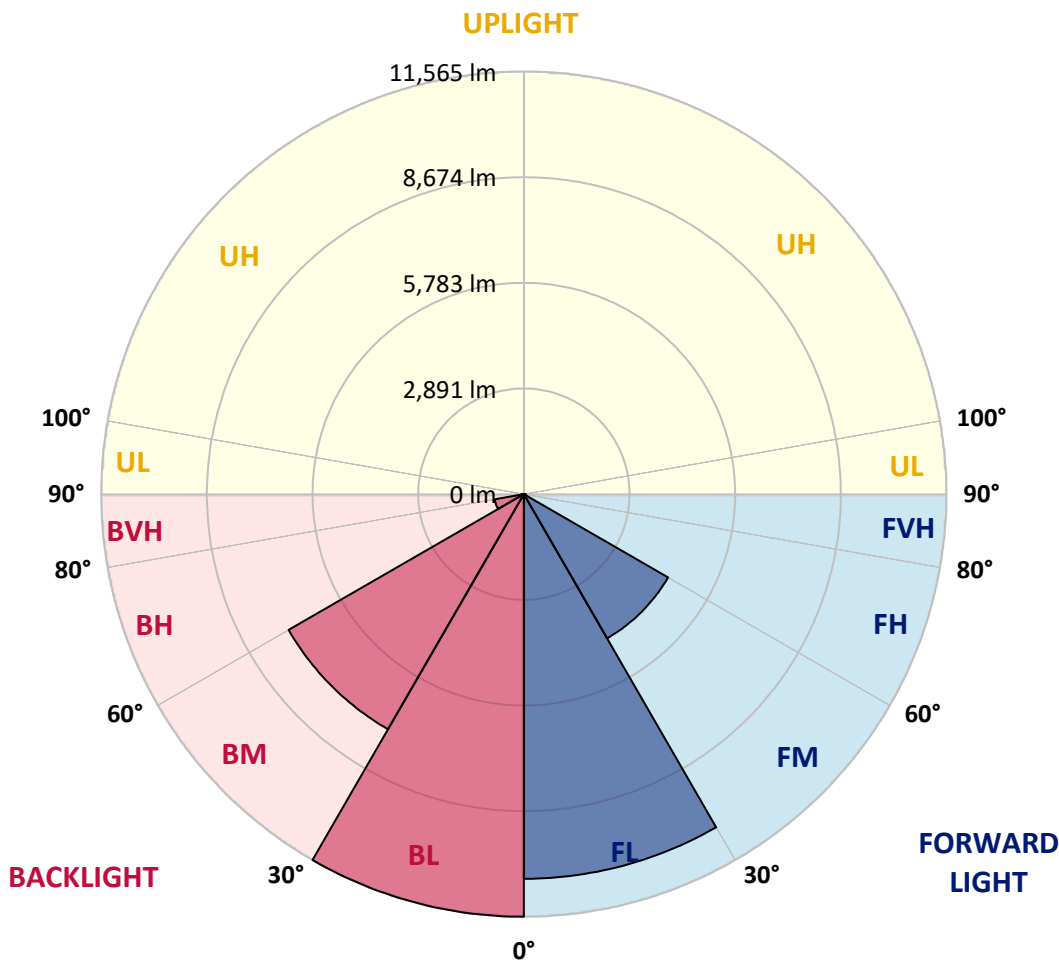
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10525.6	30.0			
FM (30°-60°)	4556.7	13.0			
FH (60°-80°)	65.9	0.2			G0/660
FVH (80°-90°)	7.4	0.0			G0/10
BL (0°-30°)	11565.0	33.0	B5		
BM (30°-60°)	7432.2	21.2	B4/8500		
BH (60°-80°)	811.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	72.6	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	41860.7	41860.7	41860.7	41860.7	41860.7	41860.7	41860.7	41860.7	41860.7	41860.7
2.5°	41865.2	41694.2	41451.2	41428.7	41554.7	41829.2	41653.7	41662.7	41554.7	41739.2
5°	41208.1	41046.1	40879.6	40659.1	40843.6	40960.6	40870.6	40771.6	40632.1	40812.1
7.5°	39966.0	39875.9	39628.4	39529.4	39641.9	39772.4	39578.9	39551.9	39358.4	39592.4
10°	38066.7	38030.7	37787.6	37729.1	37828.1	38026.2	37940.7	37922.7	37801.1	37778.6
12.5°	36095.4	35955.9	35654.3	35636.3	35784.8	36081.9	35852.3	35631.8	35699.3	35757.8
15°	31018.6	30870.1	31617.2	32791.9	33408.5	33386.0	33453.5	33187.9	33106.9	33133.9
17.5°	24659.2	24407.1	24677.2	26495.4	29425.4	31126.6	30658.6	30087.0	29780.9	29578.4
20°	21283.7	21297.2	21247.7	21715.7	23543.0	27422.6	27310.1	26207.4	25806.8	25640.3
22.5°	19231.4	19154.9	19046.8	19195.4	19685.9	21963.3	23489.0	22476.3	22336.8	22152.3
25°	17219.6	17219.6	17089.0	17237.6	17377.1	17408.6	18938.8	19352.9	19082.8	19082.8
27.5°	15477.8	15387.8	15329.3	15396.8	15212.3	14325.6	14519.2	16639.0	16454.5	16341.9
30°	13749.5	13722.5	13623.5	13713.5	13029.4	12030.3	11625.2	14042.1	14235.6	14195.1
32.5°	11350.7	11458.7	11899.8	12039.3	10869.1	10063.5	9676.4	11656.7	12430.9	12399.3
35°	7714.1	7804.2	8308.2	9973.5	9010.3	8434.3	8321.7	9271.4	10545.1	10666.6
37.5°	6143.4	6129.9	6273.9	6571.0	7241.6	7102.1	7070.6	7318.1	8600.8	8654.8
40°	5063.3	5045.3	5040.8	4797.7	4631.2	5904.9	5819.4	5670.8	6782.5	6890.5
42.5°	4082.1	4100.1	4113.6	3582.5	3339.5	4554.7	4505.2	4352.1	5319.8	5445.8
45°	3204.5	3200.0	3227.0	2668.9	2601.4	2911.9	3366.5	3245.0	4014.6	4149.6
47.5°	1660.7	1719.3	2083.8	2065.8	2097.3	2065.8	2547.4	2515.9	3019.9	3236.0
50°	1116.2	1134.2	1165.7	1170.2	1651.7	1521.2	1728.3	1957.8	2115.3	2448.4
52.5°	864.1	877.6	796.6	747.1	1012.7	1125.2	1134.2	1354.7	1476.2	1813.8
55°	481.6	540.1	580.6	585.1	558.1	832.6	828.1	1003.6	1098.2	1323.2
57.5°	63.0	76.5	117.0	378.1	373.6	463.6	580.6	729.1	783.1	967.6
60°	4.5	9.0	13.5	58.5	247.5	270.0	396.1	454.6	544.6	679.6
62.5°	0.0	0.0	4.5	13.5	49.5	157.5	207.0	238.5	319.5	445.6
65°	0.0	0.0	4.5	9.0	18.0	58.5	81.0	130.5	189.0	274.5
67.5°	0.0	0.0	4.5	9.0	13.5	22.5	36.0	58.5	99.0	166.5
70°	0.0	0.0	4.5	9.0	13.5	18.0	27.0	36.0	54.0	90.0
72.5°	0.0	0.0	4.5	4.5	9.0	22.5	22.5	27.0	36.0	49.5
75°	0.0	0.0	4.5	9.0	13.5	22.5	22.5	22.5	27.0	31.5
77.5°	0.0	0.0	4.5	9.0	13.5	22.5	18.0	22.5	22.5	22.5
80°	0.0	0.0	4.5	9.0	13.5	22.5	27.0	22.5	18.0	18.0
82.5°	0.0	0.0	4.5	13.5	13.5	31.5	31.5	31.5	13.5	13.5
85°	0.0	0.0	9.0	13.5	22.5	36.0	36.0	27.0	13.5	9.0
87.5°	0.0	0.0	4.5	9.0	9.0	18.0	27.0	22.5	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



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**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
41860.7	0°	41860.7	41860.7	41860.7	41860.7	41860.7	41860.7	41860.7	41860.7	41860.7
41469.2	2.5°	41802.2	41689.7	41901.2	41928.2	41838.2	41725.7	41464.7	41442.2	40987.6
40551.0	5°	41010.1	40825.6	40960.6	41050.6	41019.1	40897.6	40789.6	40690.6	40281.0
39061.3	7.5°	39533.9	39466.4	39529.4	39596.9	39727.4	39596.9	39551.9	39448.4	39043.3
37594.1	10°	37895.6	37769.6	38008.2	37976.7	37940.7	37904.6	37715.6	37733.6	37256.6
35595.8	12.5°	35883.8	35672.3	35901.8	35928.9	35901.8	35775.8	35564.3	35654.3	35217.7
32895.4	15°	33178.9	33156.4	33323.0	33431.0	33507.5	33372.5	33300.5	33345.5	33084.4
29420.9	17.5°	29857.4	30150.0	30694.6	30879.1	30883.6	31023.1	30982.6	30928.6	30735.1
25572.8	20°	25950.9	26513.5	27350.6	28210.2	28457.7	28340.7	28286.7	28385.7	28097.7
21958.8	22.5°	22345.8	22827.4	23799.5	25055.2	25779.8	25851.9	25838.4	25752.8	25640.3
19064.8	25°	19285.4	19712.9	20644.6	21792.2	23183.0	23390.0	23399.0	23372.0	23273.0
16440.9	27.5°	16702.0	17219.6	17732.6	18758.8	20239.5	21094.6	20986.6	20955.1	20919.1
14226.6	30°	14361.6	15014.2	15495.8	16134.9	17462.6	18619.3	18731.8	18677.8	18592.3
12394.8	32.5°	12507.4	12894.4	13506.5	13938.6	14892.7	16202.4	16634.5	16594.0	16517.5
10743.1	35°	10896.1	11049.1	11530.7	12012.3	12646.9	13916.1	14555.2	14465.2	14451.7
8753.8	37.5°	8974.3	9487.4	9753.0	10239.0	10684.6	11670.2	12552.4	12511.9	12516.4
7039.0	40°	7246.1	7543.1	8069.7	8479.3	8888.8	9608.9	10590.1	10617.1	10608.1
5450.3	42.5°	5562.8	5850.9	6404.5	6850.0	7214.6	7660.1	8596.3	8627.8	8668.3
4244.1	45°	4343.1	4527.7	4932.7	5396.3	5783.4	6053.4	6764.5	6967.0	6971.5
3290.0	47.5°	3371.0	3582.5	3870.6	4316.1	4694.2	4887.7	5405.3	5679.8	5666.3
2524.9	50°	2646.4	2839.9	3074.0	3425.0	3834.6	3987.6	4370.2	4640.2	4626.7
1903.8	52.5°	2025.3	2272.8	2479.9	2749.9	3150.5	3281.0	3555.5	3866.1	3821.1
1395.2	55°	1534.7	1786.8	1980.3	2205.3	2569.9	2736.4	2925.4	3173.0	3182.0
1080.2	57.5°	1156.7	1417.7	1593.2	1822.8	2097.3	2281.8	2425.9	2691.4	2686.9
738.1	60°	828.1	1053.2	1264.7	1503.2	1714.8	1926.3	2025.3	2277.3	2286.3
522.1	62.5°	598.6	810.1	1012.7	1219.7	1408.7	1615.7	1705.8	1903.8	1930.8
342.1	65°	418.6	567.1	801.1	958.6	1170.2	1323.2	1440.2	1611.2	1642.7
202.5	67.5°	270.0	409.6	634.6	774.1	967.6	1098.2	1219.7	1354.7	1395.2
130.5	70°	162.0	310.5	472.6	621.1	796.6	913.6	1030.7	1147.7	1170.2
63.0	72.5°	103.5	216.0	342.1	504.1	639.1	765.1	868.6	954.1	886.6
40.5	75°	58.5	148.5	270.0	396.1	517.6	639.1	724.6	769.6	616.6
27.0	77.5°	36.0	108.0	220.5	319.5	400.6	513.1	567.1	594.1	441.1
18.0	80°	22.5	81.0	184.5	261.0	261.0	378.1	441.1	463.6	319.5
13.5	82.5°	18.0	58.5	144.0	198.0	175.5	283.5	346.6	351.1	225.0
9.0	85°	13.5	45.0	90.0	130.5	121.5	198.0	202.5	225.0	148.5
9.0	87.5°	9.0	27.0	54.0	76.5	67.5	94.5	108.0	121.5	81.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
41860.7
40632.1
39952.5
38957.8
37094.5
35091.7
32769.4
30447.0
27890.7
25424.3
22939.9
20707.6
18484.3
16314.9
14303.1
12372.3
10450.6
8533.3
6854.5
5616.8
4626.7
3825.6
3182.0
2677.9
2263.8
1921.8
1633.7
1390.7
1152.2
823.6
585.1
414.1
297.0
207.0
135.0
72.0
0.0

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