

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: P637837

Luminaire Tested: **IFLD-L-SA8C-727-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637837
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-727-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35727.2 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

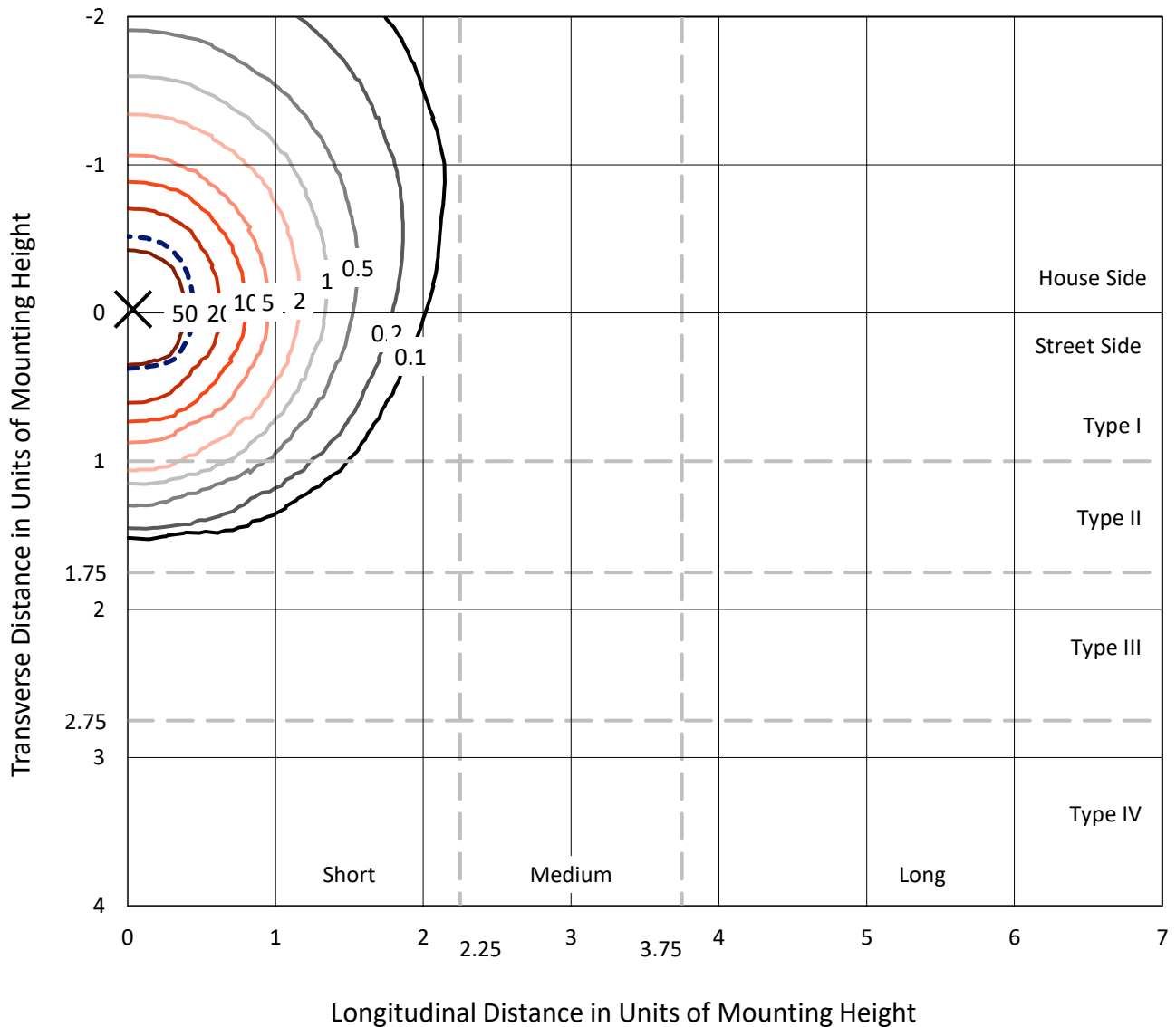
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

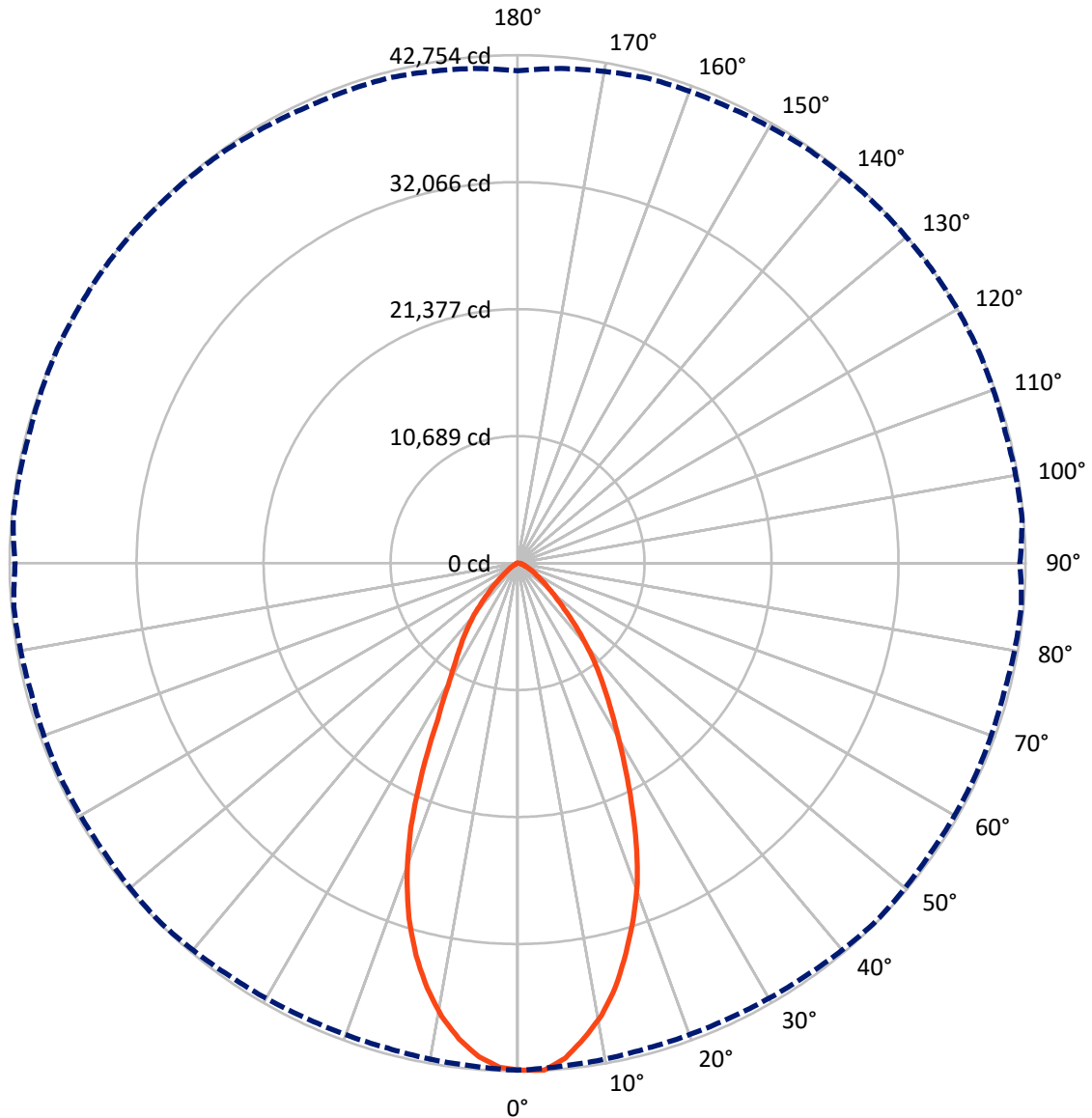
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 106.7 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
House Side	Lumens	20273.0	0.0	20273.0
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	15454.2	0.0	15454.2
	% Fixture	43.3	0.0	43.3
Total	Lumens	35727.2	0.0	35727.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3876.0	10.8
10°-20°	9239.5	25.9
20°-30°	9410.2	26.3
30°-40°	7017.2	19.6
40°-50°	3666.0	10.3
50°-60°	1541.9	4.3
60°-70°	629.7	1.8
70°-80°	265.0	0.7
80°-90°	81.7	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°	35727.2	100.0
0°-180°	35727.2	100.0



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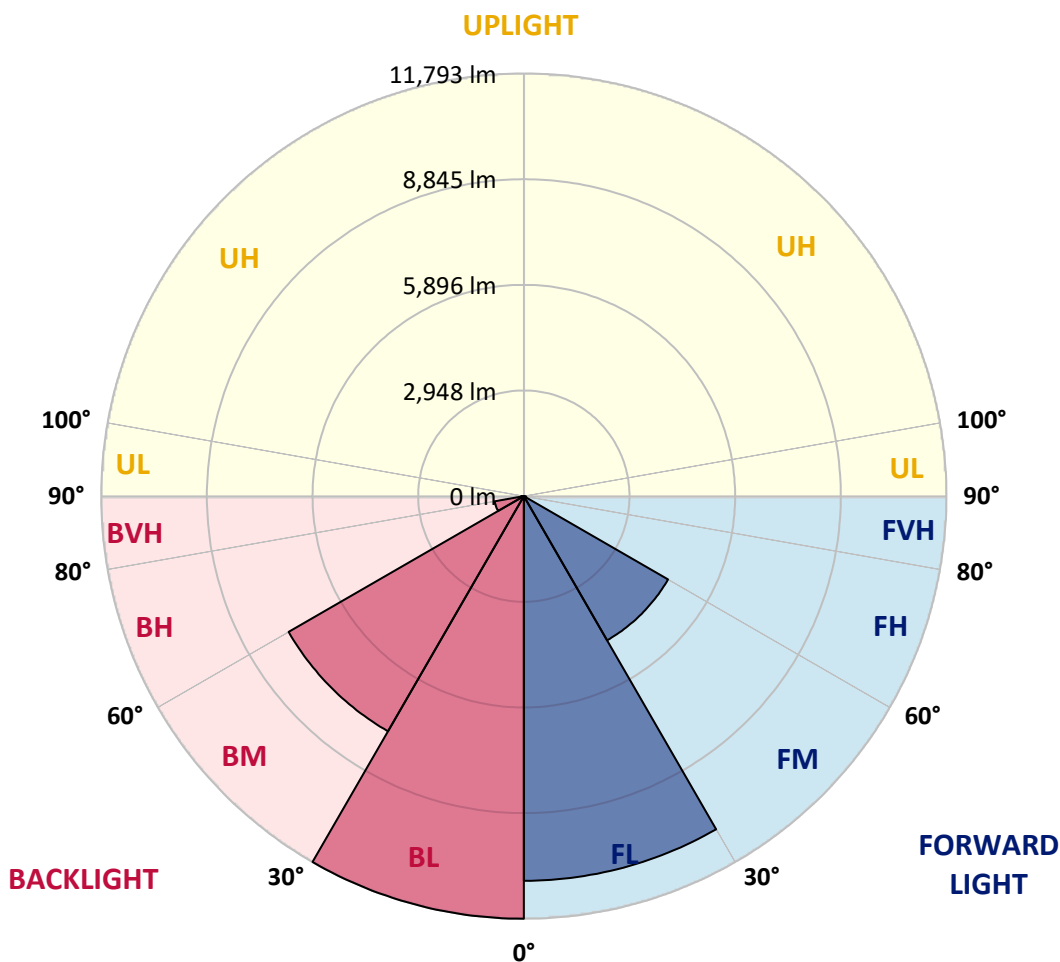
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10732.9	30.0			
FM (30°-60°)	4646.4	13.0			
FH (60°-80°)	67.2	0.2			G0/660
FVH (80°-90°)	7.6	0.0			G0/10
BL (0°-30°)	11792.8	33.0	B5		
BM (30°-60°)	7578.6	21.2	B4/8500		
BH (60°-80°)	827.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	74.1	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°	42685.3	42685.3	42685.3	42685.3	42685.3	42685.3	42685.3	42685.3	42685.3	42685.3
2.5°	42689.9	42515.5	42267.7	42244.7	42373.2	42653.2	42474.2	42483.4	42373.2	42561.4
5°	42019.8	41854.6	41684.8	41459.9	41648.1	41767.4	41675.6	41574.7	41432.4	41616.0
7.5°	40753.2	40661.4	40409.0	40308.0	40422.7	40555.8	40358.5	40331.0	40133.6	40372.3
10°	38816.5	38779.8	38531.9	38472.3	38573.3	38775.2	38688.0	38669.6	38545.7	38522.8
12.5°	36806.4	36664.1	36356.6	36338.3	36489.7	36792.6	36558.5	36333.7	36402.5	36462.2
15°	31629.6	31478.2	32240.0	33437.8	34066.5	34043.6	34112.4	33841.7	33759.1	33786.6
17.5°	25144.9	24887.9	25163.3	27017.3	30005.0	31739.8	31262.5	30679.6	30367.5	30161.0
20°	21702.9	21716.7	21666.2	22143.5	24006.7	27962.7	27848.0	26723.6	26315.2	26145.4
22.5°	19610.2	19532.2	19422.0	19573.5	20073.7	22395.9	23951.7	22919.1	22776.8	22588.6
25°	17558.7	17558.7	17425.7	17577.1	17719.4	17751.5	19311.9	19734.1	19458.7	19458.7
27.5°	15782.7	15690.9	15631.2	15700.1	15511.9	14607.8	14805.2	16966.7	16778.6	16663.8
30°	14020.4	13992.8	13891.9	13983.7	13286.1	12267.3	11854.2	14318.7	14516.0	14474.7
32.5°	11574.3	11684.4	12134.2	12276.4	11083.2	10261.7	9867.0	11886.3	12675.7	12643.6
35°	7866.1	7957.9	8471.9	10169.9	9187.8	8600.4	8485.7	9454.0	10752.8	10876.7
37.5°	6264.4	6250.7	6397.5	6700.4	7384.2	7242.0	7209.8	7462.2	8770.2	8825.3
40°	5163.0	5144.6	5140.0	4892.2	4722.4	6021.2	5934.0	5782.5	6916.1	7026.3
42.5°	4162.5	4180.9	4194.6	3653.1	3405.3	4644.4	4593.9	4437.9	5424.6	5553.1
45°	3267.6	3263.0	3290.5	2721.5	2652.6	2969.3	3432.8	3308.9	4093.7	4231.4
47.5°	1693.5	1753.1	2124.9	2106.5	2138.6	2106.5	2597.6	2565.4	3079.4	3299.7
50°	1138.2	1156.5	1188.6	1193.2	1684.3	1551.2	1762.3	1996.4	2157.0	2496.6
52.5°	881.1	894.9	812.3	761.8	1032.6	1147.3	1156.5	1381.4	1505.3	1849.5
55°	491.1	550.7	592.0	596.6	569.1	849.0	844.4	1023.4	1119.8	1349.3
57.5°	64.3	78.0	119.3	385.5	380.9	472.7	592.0	743.5	798.5	986.7
60°	4.6	9.2	13.8	59.7	252.4	275.4	403.9	463.5	555.3	693.0
62.5°	0.0	0.0	4.6	13.8	50.5	160.6	211.1	243.2	325.8	454.3
65°	0.0	0.0	4.6	9.2	18.4	59.7	82.6	133.1	192.8	279.9
67.5°	0.0	0.0	4.6	9.2	13.8	22.9	36.7	59.7	101.0	169.8
70°	0.0	0.0	4.6	9.2	13.8	18.4	27.5	36.7	55.1	91.8
72.5°	0.0	0.0	4.6	4.6	9.2	22.9	22.9	27.5	36.7	50.5
75°	0.0	0.0	4.6	9.2	13.8	22.9	22.9	22.9	27.5	32.1
77.5°	0.0	0.0	4.6	9.2	13.8	22.9	18.4	22.9	22.9	22.9
80°	0.0	0.0	4.6	9.2	13.8	22.9	27.5	22.9	18.4	18.4
82.5°	0.0	0.0	4.6	13.8	13.8	32.1	32.1	32.1	13.8	13.8
85°	0.0	0.0	9.2	13.8	22.9	36.7	36.7	27.5	13.8	9.2
87.5°	0.0	0.0	4.6	9.2	9.2	18.4	27.5	22.9	9.2	4.6
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°
42685.3	0°	42685.3	42685.3	42685.3	42685.3	42685.3	42685.3	42685.3	42685.3	42685.3
42286.0	2.5°	42625.6	42510.9	42726.6	42754.1	42662.3	42547.6	42281.4	42258.5	41795.0
41349.8	5°	41817.9	41629.7	41767.4	41859.2	41827.1	41703.2	41593.0	41492.1	41074.4
39830.7	7.5°	40312.6	40243.8	40308.0	40376.9	40509.9	40376.9	40331.0	40225.4	39812.4
38334.6	10°	38642.1	38513.6	38756.8	38724.7	38688.0	38651.3	38458.5	38476.9	37990.4
36296.9	12.5°	36590.7	36375.0	36609.0	36636.6	36609.0	36480.5	36264.8	36356.6	35911.4
33543.4	15°	33832.5	33809.5	33979.3	34089.5	34167.5	34029.8	33956.4	34002.3	33736.1
30000.4	17.5°	30445.6	30743.9	31299.2	31487.3	31491.9	31634.2	31592.9	31537.8	31340.5
26076.5	20°	26462.0	27035.7	27889.3	28765.9	29018.3	28899.0	28843.9	28944.9	28651.1
22391.3	22.5°	22786.0	23277.0	24268.3	25548.8	26287.6	26361.1	26347.3	26260.1	26145.4
19440.4	25°	19665.2	20101.2	21051.2	22221.5	23639.6	23850.7	23859.9	23832.3	23731.4
16764.8	27.5°	17031.0	17558.7	18081.9	19128.3	20638.2	21510.2	21400.0	21367.9	21331.2
14506.8	30°	14644.5	15310.0	15801.0	16452.7	17806.6	18986.0	19100.8	19045.7	18958.5
12639.0	32.5°	12753.7	13148.4	13772.6	14213.1	15186.1	16521.6	16962.1	16920.8	16842.8
10954.7	35°	11110.7	11266.8	11757.8	12248.9	12896.0	14190.2	14841.9	14750.1	14736.3
8926.2	37.5°	9151.1	9674.3	9945.1	10440.7	10895.1	11900.1	12799.6	12758.3	12762.9
7177.7	40°	7388.8	7691.7	8228.7	8646.3	9063.9	9798.2	10798.7	10826.2	10817.0
5557.7	42.5°	5672.4	5966.1	6530.6	6984.9	7356.7	7811.0	8765.6	8797.7	8839.0
4327.7	45°	4428.7	4616.9	5029.9	5502.6	5897.3	6172.6	6897.8	7104.3	7108.9
3354.8	47.5°	3437.4	3653.1	3946.8	4401.2	4786.7	4984.0	5511.8	5791.7	5778.0
2574.6	50°	2698.5	2895.9	3134.5	3492.5	3910.1	4066.1	4456.2	4731.6	4717.8
1941.3	52.5°	2065.2	2317.6	2528.7	2804.1	3212.5	3345.6	3625.6	3942.2	3896.3
1422.7	55°	1565.0	1822.0	2019.3	2248.8	2620.5	2790.3	2983.1	3235.5	3244.7
1101.4	57.5°	1179.5	1445.6	1624.6	1858.7	2138.6	2326.8	2473.6	2744.4	2739.8
752.6	60°	844.4	1073.9	1289.6	1532.8	1748.5	1964.2	2065.2	2322.2	2331.4
532.4	62.5°	610.4	826.1	1032.6	1243.7	1436.5	1647.6	1739.4	1941.3	1968.8
348.8	65°	426.8	578.3	816.9	977.5	1193.2	1349.3	1468.6	1643.0	1675.1
206.5	67.5°	275.4	417.6	647.1	789.4	986.7	1119.8	1243.7	1381.4	1422.7
133.1	70°	165.2	316.7	481.9	633.3	812.3	931.6	1051.0	1170.3	1193.2
64.3	72.5°	105.6	220.3	348.8	514.0	651.7	780.2	885.7	972.9	904.1
41.3	75°	59.7	151.4	275.4	403.9	527.8	651.7	738.9	784.8	628.7
27.5	77.5°	36.7	110.1	224.9	325.8	408.4	523.2	578.3	605.8	449.8
18.4	80°	22.9	82.6	188.2	266.2	266.2	385.5	449.8	472.7	325.8
13.8	82.5°	18.4	59.7	146.9	201.9	179.0	289.1	353.4	358.0	229.5
9.2	85°	13.8	45.9	91.8	133.1	123.9	201.9	206.5	229.5	151.4
9.2	87.5°	9.2	27.5	55.1	78.0	68.8	96.4	110.1	123.9	82.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
42685.3
41432.4
40739.4
39725.2
37825.2
35782.9
33414.9
31046.8
28440.0
25925.1
23391.8
21115.5
18848.3
16636.3
14584.9
12616.0
10656.4
8701.4
6989.5
5727.5
4717.8
3900.9
3244.7
2730.6
2308.4
1959.6
1665.9
1418.1
1174.9
839.8
596.6
422.2
302.9
211.1
137.7
73.4
0.0

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