

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: P637207

Luminaire Tested: **IFLD-S-SA3B-827-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637207
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-827-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (48) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12439.3 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

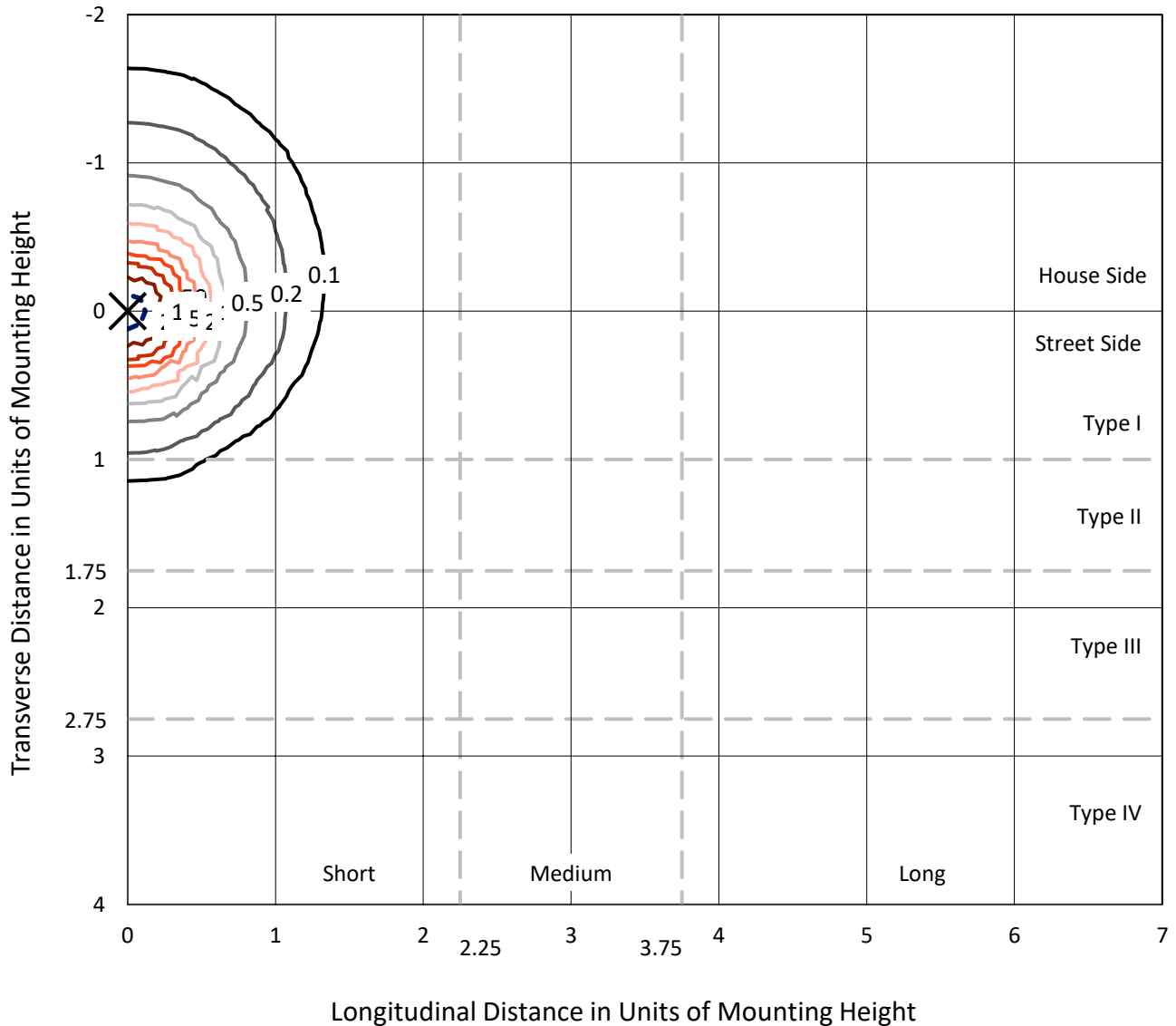
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

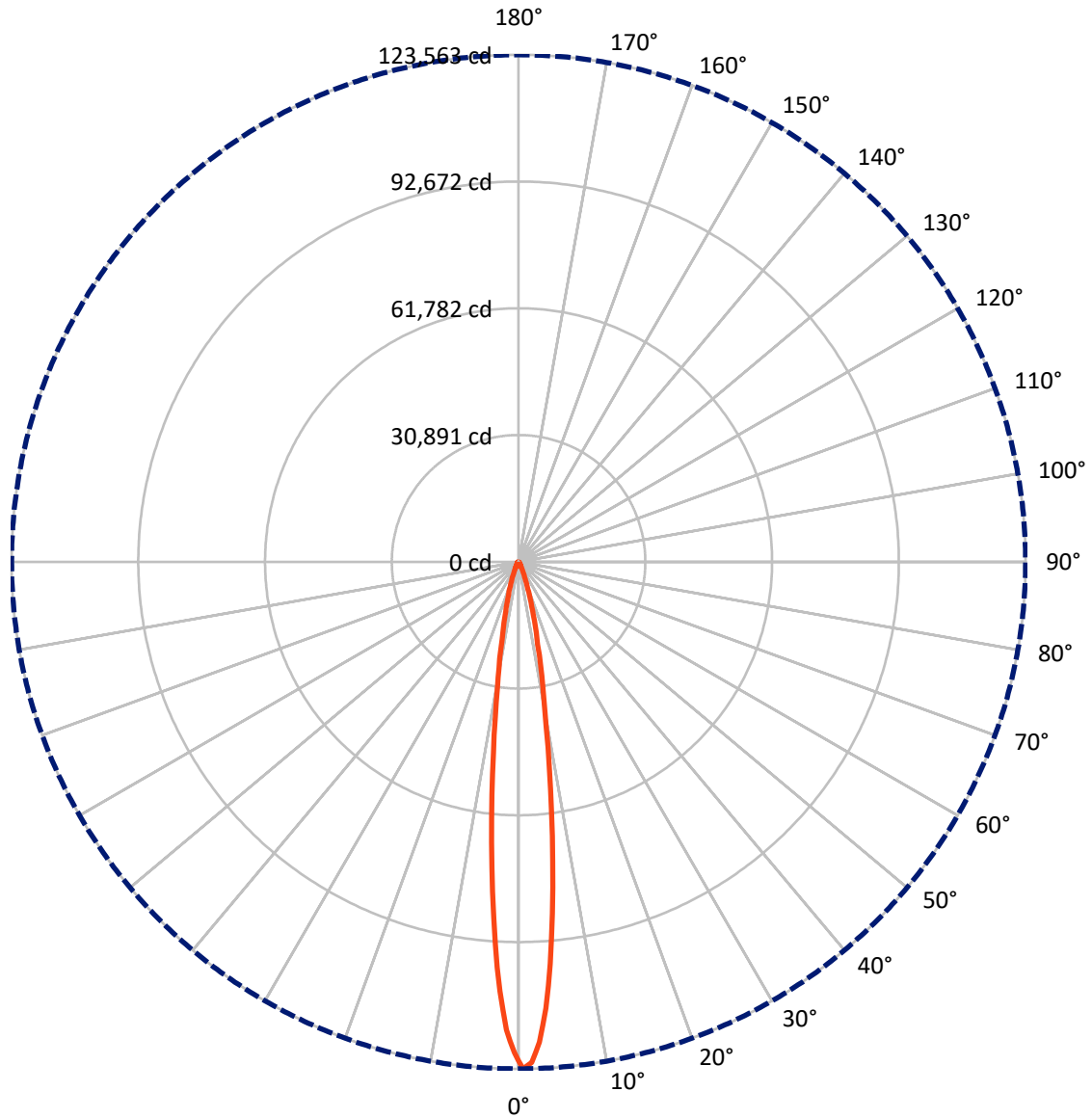
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 308.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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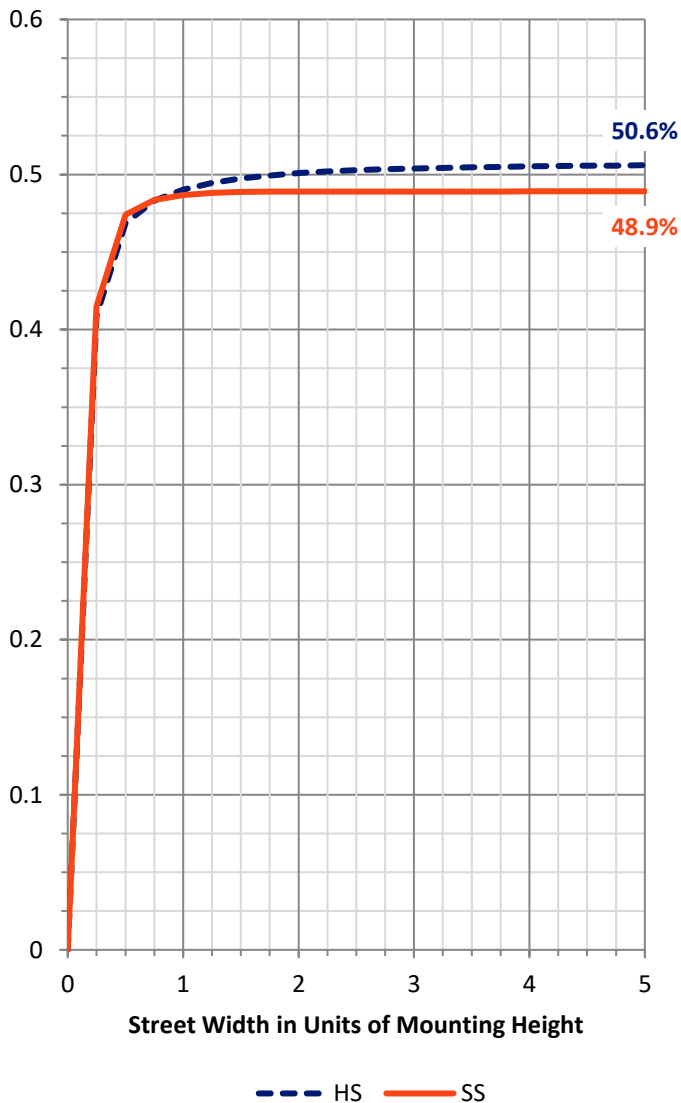
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6371.2	0.0	6371.2
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	6068.1	0.0	6068.1
	% Fixture	48.8	0.0	48.8
Total	Lumens	12439.3	0.0	12439.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6279.8	50.5
10°-20°	4020.3	32.3
20°-30°	1208.4	9.7
30°-40°	393.5	3.2
40°-50°	228.9	1.8
50°-60°	152.1	1.2
60°-70°	91.5	0.7
70°-80°	47.1	0.4
80°-90°	17.9	0.1
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°	12439.3	100.0
0°-180°	12439.3	100.0

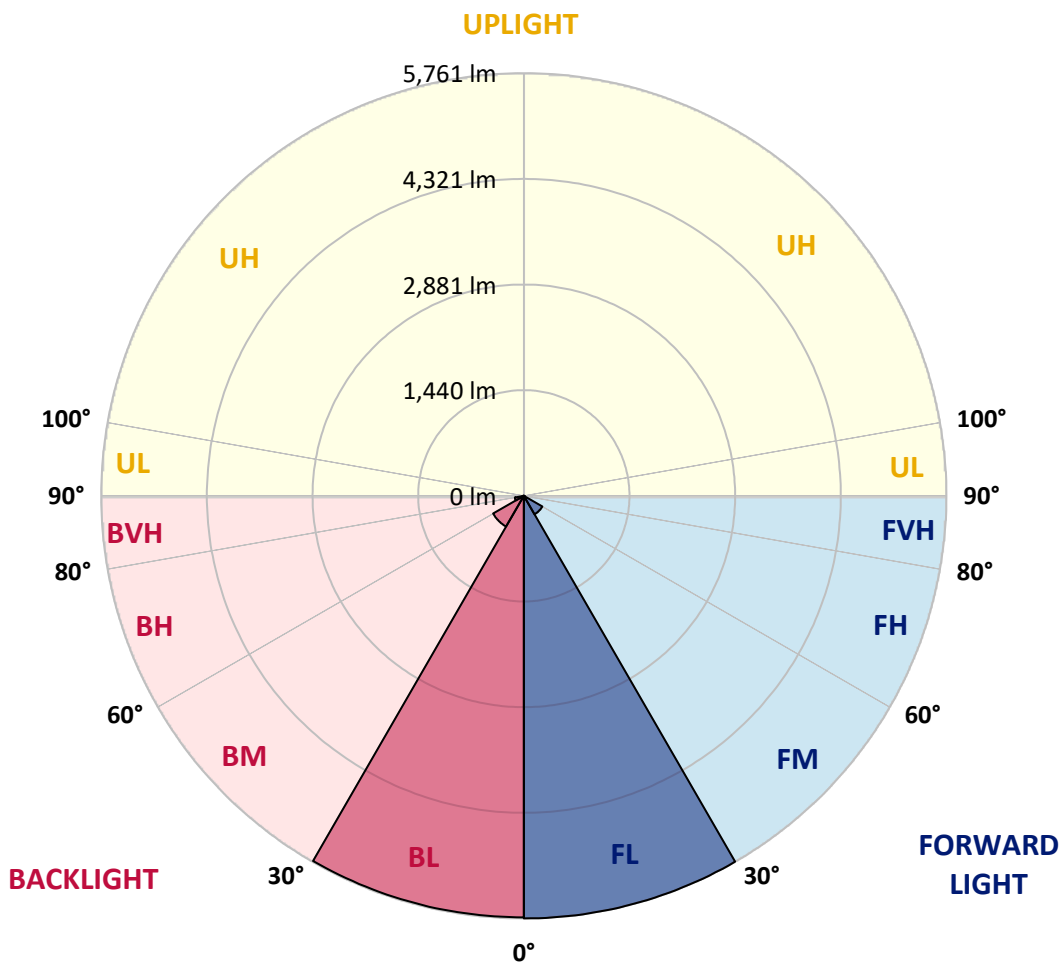


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5761.0	46.3			
FM (30°-60°)	290.7	2.3			
FH (60°-80°)	13.7	0.1			G0/660
FVH (80°-90°)	2.7	0.0			G0/10
BL (0°-30°)	5747.4	46.2	B5		
BM (30°-60°)	483.7	3.9	B1/1000		
BH (60°-80°)	124.9	1.0	B1/500		G0/660
BVH (80°-90°)	15.2	0.1			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 V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	123563.0	123563.0	123563.0	123563.0	123563.0	123563.0	123563.0	123563.0	123563.0	123563.0
1°	122083.5	121710.9	120748.9	121433.1	122034.7	121859.9	121847.7	121782.7	121691.9	122404.6
2°	117203.3	116962.2	115539.6	116126.2	116981.1	116357.9	116748.1	116405.3	116412.1	117262.9
3°	108976.7	109108.1	106838.8	107905.0	109093.2	107582.6	108051.4	108932.0	108009.4	107731.6
4°	98284.3	97143.5	95903.9	96987.7	97295.3	96416.0	97280.4	98358.8	97077.1	97134.0
5°	86077.2	85234.5	83767.2	84436.5	83673.7	83951.4	85246.7	85691.1	84796.9	83671.0
6°	73525.9	72927.1	71092.6	72057.3	71786.3	71629.1	73264.4	71909.6	72397.3	71715.9
7°	61158.9	60039.8	59138.9	60062.9	60122.5	59649.6	61772.7	61526.1	60638.7	60432.7
8°	50671.1	49554.7	48791.9	49480.2	49930.0	49187.5	50186.1	50841.8	50148.1	50210.4
9°	40868.8	40672.4	39611.5	40511.1	41000.2	40204.9	41310.5	41547.6	40898.6	41214.3
10°	33556.7	33327.8	32481.0	32845.4	33655.6	32707.2	33768.1	33845.3	33327.8	33475.4
12.5°	20737.2	20645.1	20622.1	20674.9	20664.1	20832.1	21103.0	20794.1	20753.5	20242.7
15°	13403.5	13540.3	13399.4	13670.4	13709.6	13868.2	13702.9	13453.6	12978.0	12742.3
17.5°	8364.8	8539.6	8780.7	9177.7	9574.7	9620.7	9401.2	9108.6	8878.3	8626.3
20°	4812.4	4897.8	4861.2	5336.7	6363.7	6642.8	6359.6	6052.1	5774.3	5519.6
22.5°	2990.1	2959.0	3015.9	3175.7	3510.4	4373.4	4141.8	3834.2	3632.3	3422.3
25°	1833.1	1867.0	1845.3	1933.4	2083.7	2449.6	2502.4	2369.6	2266.7	2158.3
27.5°	1180.1	1180.1	1189.6	1238.3	1341.3	1329.1	1610.9	1507.9	1452.4	1399.6
30°	819.7	822.4	822.4	850.8	873.9	833.2	906.4	1039.2	1013.4	972.8
32.5°	608.3	616.5	623.2	638.1	619.2	575.8	593.4	747.9	733.0	718.1
35°	463.4	470.1	486.4	494.5	467.4	440.3	424.1	550.1	556.8	552.8
37.5°	337.4	341.4	371.2	402.4	371.2	346.8	337.4	422.7	455.2	451.2
40°	258.8	260.1	265.5	300.8	300.8	281.8	284.5	315.7	372.6	372.6
42.5°	222.2	222.2	227.6	222.2	223.5	243.9	250.6	254.7	315.7	315.7
45°	192.4	192.4	195.1	181.5	168.0	210.0	215.4	216.8	265.5	272.3
47.5°	161.2	161.2	166.6	149.0	142.3	166.6	181.5	185.6	229.0	234.4
50°	119.2	120.6	136.8	121.9	126.0	128.7	157.2	159.9	193.7	205.9
52.5°	79.9	79.9	82.6	94.8	109.7	105.7	127.4	136.8	154.5	170.7
55°	65.0	65.0	63.7	61.0	81.3	88.1	93.5	113.8	126.0	146.3
57.5°	44.7	47.4	43.4	50.1	52.8	66.4	70.5	89.4	96.2	123.3
60°	5.4	6.8	9.5	36.6	35.2	44.7	52.8	70.5	78.6	94.8
62.5°	1.4	1.4	2.7	6.8	24.4	29.8	42.0	48.8	56.9	73.2
65°	0.0	0.0	1.4	2.7	5.4	16.3	21.7	28.5	40.6	51.5
67.5°	0.0	0.0	1.4	2.7	2.7	6.8	10.8	17.6	21.7	37.9
70°	0.0	0.0	1.4	2.7	2.7	5.4	6.8	8.1	14.9	20.3
72.5°	0.0	0.0	1.4	2.7	4.1	5.4	6.8	6.8	6.8	13.5
75°	0.0	0.0	1.4	2.7	4.1	5.4	6.8	6.8	5.4	5.4
77.5°	0.0	0.0	1.4	2.7	5.4	6.8	8.1	6.8	4.1	4.1
80°	0.0	0.0	1.4	4.1	6.8	9.5	10.8	8.1	4.1	2.7
82.5°	0.0	0.0	2.7	5.4	8.1	10.8	14.9	12.2	5.4	2.7
85°	0.0	0.0	1.4	4.1	8.1	10.8	21.7	14.9	6.8	1.4
87.5°	0.0	0.0	0.0	1.4	1.4	2.7	8.1	5.4	2.7	1.4
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°
123563.0	0°	123563.0	123563.0	123563.0	123563.0	123563.0	123563.0	123563.0	123563.0
121582.2	1°	122431.7	122517.0	122237.9	122670.1	122518.4	121629.6	121335.6	120987.4
116763.0	2°	116405.3	116840.2	116861.9	117341.5	117334.7	116298.3	115977.2	116569.3
108295.2	3°	107967.4	108474.1	108017.5	108869.7	108613.6	107356.3	107029.8	107701.8
97583.9	4°	97292.6	97196.4	97039.2	96554.2	97151.7	96294.0	95647.8	96559.6
85164.0	5°	84993.3	84779.2	84473.0	84329.4	84773.8	84225.1	82896.0	84227.8
72948.8	6°	73038.2	72116.9	72072.2	71992.2	72037.0	70500.6	70592.7	71584.4
59724.1	7°	60355.5	60524.9	60179.4	60733.5	60310.8	59270.3	58869.2	59913.8
50484.1	8°	50131.9	49917.8	49653.6	50481.4	49748.4	49065.6	48598.2	49423.3
41265.8	9°	41188.6	40818.7	40550.4	40508.4	40622.2	39340.5	39600.7	40225.3
33556.7	10°	33568.9	32962.0	33109.6	33148.9	33024.3	32184.3	32192.4	32407.8
20581.4	12.5°	20508.2	20210.2	20284.7	20325.3	20578.7	20283.3	19866.0	19565.3
12976.7	15°	12890.0	12675.9	13113.5	13407.5	13347.9	13085.1	12888.6	12616.3
8626.3	17.5°	8546.3	8826.8	8828.2	9096.4	9123.5	8860.7	8708.9	8463.7
5610.4	20°	5590.1	5706.6	5949.1	6138.8	6248.5	6048.0	5866.5	5698.5
3498.2	22.5°	3498.2	3701.4	3853.2	4099.8	4200.0	4053.7	3925.0	3788.1
2184.0	25°	2147.4	2292.4	2418.4	2632.5	2769.3	2698.8	2581.0	2484.8
1410.4	27.5°	1432.1	1493.0	1555.4	1703.0	1845.3	1806.0	1758.6	1700.3
994.5	30°	1009.4	1014.8	1081.2	1163.8	1258.6	1283.0	1261.4	1231.6
730.3	32.5°	743.8	765.5	796.6	848.1	911.8	970.1	959.2	945.7
558.2	35°	574.5	607.0	632.7	672.0	705.9	761.4	770.9	766.8
459.3	37.5°	468.8	497.2	523.0	546.0	574.5	612.4	642.2	643.5
379.4	40°	388.8	414.6	448.5	466.1	486.4	514.8	551.4	554.1
321.1	42.5°	327.9	352.3	386.1	407.8	422.7	449.8	486.4	491.8
275.0	45°	281.8	296.7	331.9	357.7	372.6	390.2	429.5	434.9
237.1	47.5°	245.2	260.1	281.8	318.4	331.9	348.2	379.4	388.8
210.0	50°	215.4	230.3	249.3	281.8	302.1	315.7	341.4	355.0
182.9	52.5°	191.0	205.9	226.3	252.0	275.0	287.2	311.6	329.2
149.0	55°	159.9	185.6	200.5	223.5	254.7	265.5	284.5	307.5
130.1	57.5°	139.5	161.2	182.9	201.9	233.0	246.6	265.5	287.2
103.0	60°	117.9	138.2	163.9	180.2	210.0	227.6	247.9	268.3
78.6	62.5°	93.5	120.6	138.2	161.2	189.7	212.7	229.0	249.3
61.0	65°	69.1	98.9	119.2	143.6	170.7	195.1	208.6	230.3
43.4	67.5°	50.1	77.2	101.6	124.6	150.4	174.8	188.3	207.3
27.1	70°	39.3	56.9	84.0	104.3	131.4	151.7	166.6	178.8
17.6	72.5°	23.0	43.4	67.7	90.8	115.2	128.7	139.5	150.4
8.1	75°	14.9	33.9	55.5	75.9	93.5	105.7	115.2	124.6
4.1	77.5°	9.5	24.4	44.7	63.7	71.8	86.7	94.8	100.3
2.7	80°	5.4	19.0	39.3	51.5	58.3	67.7	75.9	82.6
2.7	82.5°	4.1	16.3	32.5	43.4	43.4	54.2	58.3	58.3
1.4	85°	2.7	13.5	25.7	40.6	32.5	40.6	37.9	37.9
1.4	87.5°	2.7	9.5	12.2	17.6	14.9	17.6	17.6	20.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
123563.0
119608.2
114061.4
104717.1
93259.2
80718.8
68709.5
57072.7
47067.2
38274.3
30941.9
19382.4
12476.7
8402.7
5640.2
3715.0
2429.2
1666.5
1211.2
934.8
753.3
634.1
550.1
487.7
433.5
390.2
356.3
329.2
308.9
288.6
273.7
258.8
234.4
208.6
182.9
153.1
124.6
97.5
74.5
54.2
36.6
20.3
0.0

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