

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: P637206

Luminaire Tested: **IFLD-S-SA3A-827-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637206
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-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: 10058.1 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

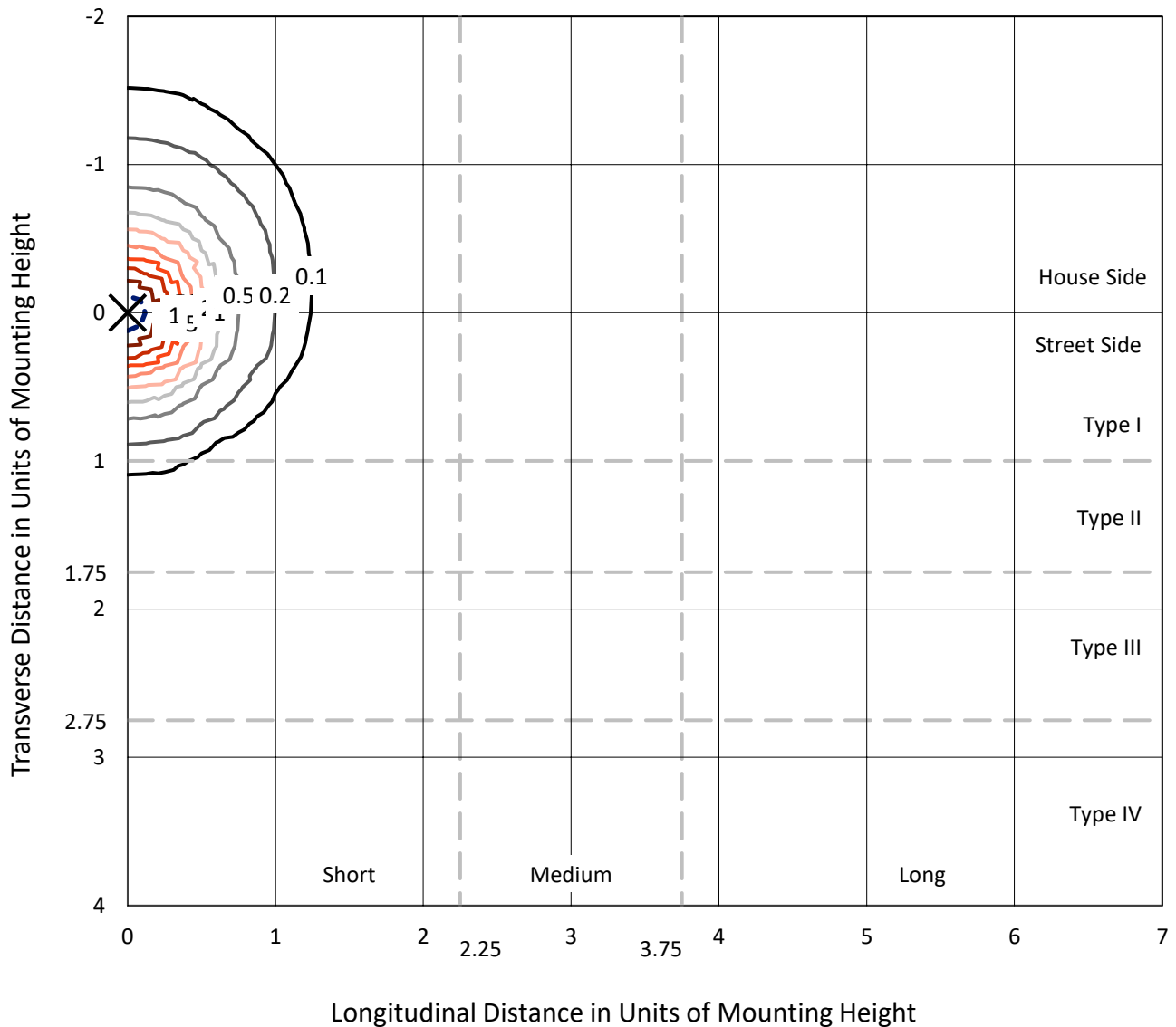
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

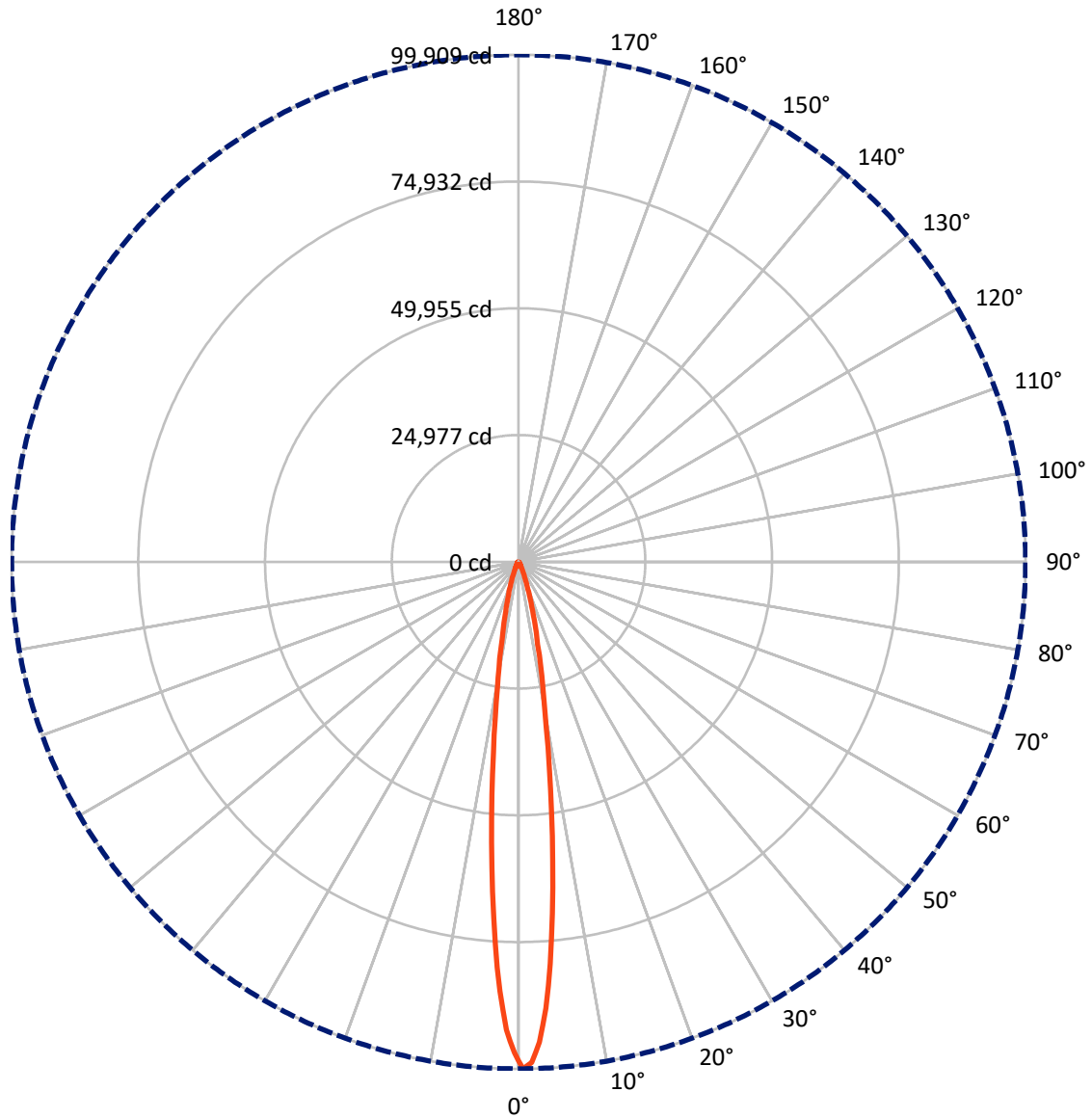
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 249.8 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	5151.6	0.0	5151.6
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	4906.5	0.0	4906.5
	% Fixture	48.8	0.0	48.8
Total	Lumens	10058.1	0.0	10058.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5077.6	50.5
10°-20°	3250.7	32.3
20°-30°	977.1	9.7
30°-40°	318.1	3.2
40°-50°	185.1	1.8
50°-60°	123.0	1.2
60°-70°	74.0	0.7
70°-80°	38.1	0.4
80°-90°	14.5	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°	10058.1	100.0
0°-180°	10058.1	100.0

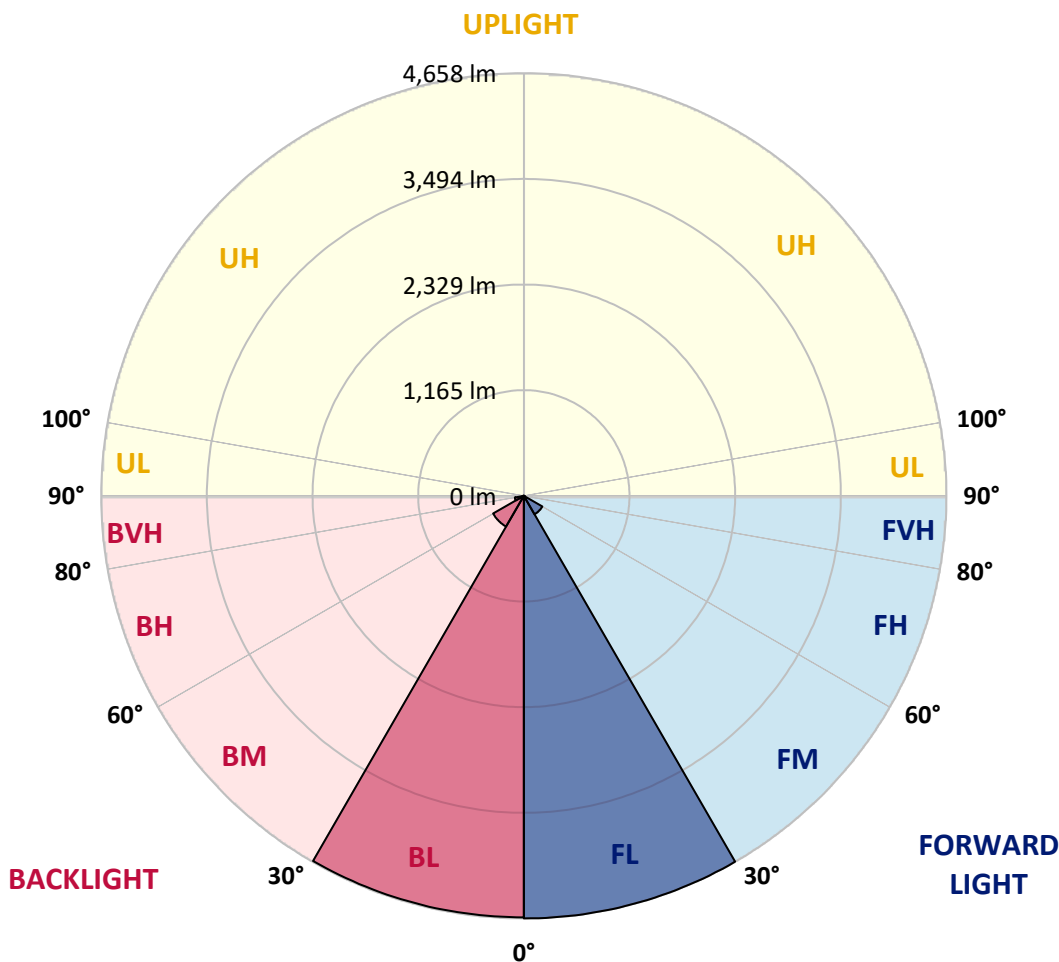


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4658.2	46.3			
FM (30°-60°)	235.1	2.3			
FH (60°-80°)	11.1	0.1			G0/660
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	4647.2	46.2	B4/5000		
BM (30°-60°)	391.1	3.9	B1/1000		
BH (60°-80°)	101.0	1.0	B0/110		G0/660
BVH (80°-90°)	12.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	99909.4	99909.4	99909.4	99909.4	99909.4	99909.4	99909.4	99909.4	99909.4	99909.4
1°	98713.1	98411.8	97634.0	98187.2	98673.6	98532.3	98522.5	98469.9	98396.5	98972.7
2°	94767.1	94572.1	93421.9	93896.2	94587.5	94083.6	94399.1	94121.9	94127.4	94815.3
3°	88115.4	88221.6	86386.7	87248.8	88209.6	86988.1	87367.1	88079.2	87333.2	87108.6
4°	79469.8	78547.4	77545.0	78421.4	78670.1	77959.1	78658.0	79530.0	78493.7	78539.7
5°	69599.5	68918.1	67731.7	68272.8	67656.1	67880.6	68927.9	69287.3	68564.2	67653.9
6°	59450.9	58966.7	57483.4	58263.4	58044.3	57917.2	59239.5	58144.0	58538.4	57987.3
7°	49451.3	48546.4	47817.9	48565.1	48613.3	48230.9	49947.6	49748.2	49030.6	48864.1
8°	40971.1	40068.5	39451.7	40008.2	40371.9	39771.6	40579.0	41109.2	40548.3	40598.7
9°	33045.3	32886.5	32028.7	32756.1	33151.6	32508.5	33402.4	33594.2	33069.4	33324.7
10°	27133.0	26947.8	26263.2	26557.8	27212.9	26446.1	27303.9	27366.3	26947.8	27067.3
12.5°	16767.5	16693.0	16674.4	16717.1	16708.3	16844.2	17063.3	16813.5	16780.6	16367.6
15°	10837.6	10948.3	10834.3	11053.4	11085.2	11213.4	11079.7	10878.2	10493.7	10303.0
17.5°	6763.5	6904.8	7099.8	7420.8	7741.8	7779.0	7601.6	7364.9	7178.7	6975.0
20°	3891.2	3960.2	3930.6	4315.1	5145.5	5371.2	5142.2	4893.5	4669.0	4463.0
22.5°	2417.7	2392.5	2438.6	2567.8	2838.4	3536.2	3348.9	3100.2	2937.0	2767.2
25°	1482.2	1509.6	1492.1	1563.3	1684.9	1980.6	2023.4	1916.0	1832.7	1745.1
27.5°	954.2	954.2	961.8	1001.3	1084.5	1074.7	1302.5	1219.3	1174.4	1131.6
30°	662.8	665.0	665.0	688.0	706.6	673.7	732.9	840.2	819.4	786.6
32.5°	491.9	498.4	503.9	516.0	500.6	465.6	479.8	604.7	592.7	580.6
35°	374.7	380.1	393.3	399.9	377.9	356.0	342.9	444.8	450.2	447.0
37.5°	272.8	276.1	300.2	325.4	300.2	280.4	272.8	341.8	368.1	364.8
40°	209.2	210.3	214.7	243.2	243.2	227.9	230.1	255.2	301.3	301.3
42.5°	179.7	179.7	184.0	179.7	180.8	197.2	202.7	206.0	255.2	255.2
45°	155.6	155.6	157.7	146.8	135.8	169.8	174.2	175.3	214.7	220.2
47.5°	130.4	130.4	134.7	120.5	115.0	134.7	146.8	150.1	185.1	189.5
50°	96.4	97.5	110.6	98.6	101.9	104.1	127.1	129.3	156.7	166.5
52.5°	64.6	64.6	66.8	76.7	88.7	85.4	103.0	110.6	124.9	138.0
55°	52.6	52.6	51.5	49.3	65.7	71.2	75.6	92.0	101.9	118.3
57.5°	36.2	38.3	35.1	40.5	42.7	53.7	57.0	72.3	77.8	99.7
60°	4.4	5.5	7.7	29.6	28.5	36.2	42.7	57.0	63.5	76.7
62.5°	1.1	1.1	2.2	5.5	19.7	24.1	34.0	39.4	46.0	59.2
65°	0.0	0.0	1.1	2.2	4.4	13.1	17.5	23.0	32.9	41.6
67.5°	0.0	0.0	1.1	2.2	2.2	5.5	8.8	14.2	17.5	30.7
70°	0.0	0.0	1.1	2.2	2.2	4.4	5.5	6.6	12.1	16.4
72.5°	0.0	0.0	1.1	2.2	3.3	4.4	5.5	5.5	5.5	11.0
75°	0.0	0.0	1.1	2.2	3.3	4.4	5.5	5.5	4.4	4.4
77.5°	0.0	0.0	1.1	2.2	4.4	5.5	6.6	5.5	3.3	3.3
80°	0.0	0.0	1.1	3.3	5.5	7.7	8.8	6.6	3.3	2.2
82.5°	0.0	0.0	2.2	4.4	6.6	8.8	12.1	9.9	4.4	2.2
85°	0.0	0.0	1.1	3.3	6.6	8.8	17.5	12.1	5.5	1.1
87.5°	0.0	0.0	0.0	1.1	1.1	2.2	6.6	4.4	2.2	1.1
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°
99909.4	0°	99909.4	99909.4	99909.4	99909.4	99909.4	99909.4	99909.4	99909.4	99909.4
98307.8	1°	98994.6	99063.6	98838.0	99187.4	99064.7	98346.1	98108.4	97826.8	97421.5
94411.1	2°	94121.9	94473.6	94491.1	94878.9	94873.4	94035.4	93775.7	94254.5	93320.0
87564.3	3°	87299.2	87708.9	87339.8	88028.8	87821.8	86805.2	86541.1	87084.5	86405.3
78903.4	4°	78667.9	78590.1	78463.0	78070.9	78554.0	77860.5	77338.0	78075.2	76622.6
68861.1	5°	68723.1	68550.0	68302.4	68186.3	68545.6	68101.9	67027.3	68104.1	65513.3
58984.2	6°	59056.5	58311.6	58275.4	58210.8	58247.0	57004.7	57079.2	57881.1	55725.1
48291.2	7°	48801.7	48938.6	48659.3	49107.3	48765.5	47924.2	47599.9	48444.5	46920.7
40820.0	8°	40535.1	40362.1	40148.4	40817.8	40225.1	39673.0	39295.1	39962.2	38830.6
33366.3	9°	33303.8	33004.8	32787.9	32753.9	32845.9	31809.6	32019.9	32525.0	31843.6
27133.0	10°	27142.8	26652.1	26771.5	26803.2	26702.5	26023.3	26029.8	26204.0	25384.6
16641.5	12.5°	16582.4	16341.4	16401.6	16434.5	16639.3	16400.5	16063.1	15819.9	15697.2
10492.6	15°	10422.4	10249.4	10603.2	10840.9	10792.7	10580.2	10421.4	10201.2	10023.7
6975.0	17.5°	6910.3	7137.1	7138.2	7355.1	7377.0	7164.5	7041.8	6843.5	6852.3
4536.4	20°	4520.0	4614.2	4810.3	4963.6	5052.4	4890.2	4743.5	4607.6	4550.6
2828.5	22.5°	2828.5	2992.9	3115.6	3314.9	3396.0	3277.7	3173.6	3063.0	2995.1
1765.9	25°	1736.3	1853.6	1955.4	2128.5	2239.2	2182.2	2086.9	2009.1	1973.0
1140.4	27.5°	1157.9	1207.2	1257.6	1377.0	1492.1	1460.3	1421.9	1374.8	1358.4
804.1	30°	816.1	820.5	874.2	941.0	1017.7	1037.4	1019.9	995.8	977.2
590.5	32.5°	601.4	618.9	644.1	685.8	737.3	784.4	775.6	764.6	755.9
451.3	35°	464.5	490.8	511.6	543.4	570.7	615.7	623.3	620.0	613.5
371.4	37.5°	379.0	402.0	422.9	441.5	464.5	495.2	519.3	520.4	513.8
306.7	40°	314.4	335.2	362.6	376.8	393.3	416.3	445.9	448.1	445.9
259.6	42.5°	265.1	284.8	312.2	329.7	341.8	363.7	393.3	397.7	393.3
222.4	45°	227.9	239.9	268.4	289.2	301.3	315.5	347.3	351.7	350.6
191.7	47.5°	198.3	210.3	227.9	257.4	268.4	281.5	306.7	314.4	314.4
169.8	50°	174.2	186.2	201.6	227.9	244.3	255.2	276.1	287.0	287.0
147.9	52.5°	154.5	166.5	182.9	203.8	222.4	232.2	252.0	266.2	266.2
120.5	55°	129.3	150.1	162.1	180.8	206.0	214.7	230.1	248.7	248.7
105.2	57.5°	112.8	130.4	147.9	163.2	188.4	199.4	214.7	232.2	234.4
83.3	60°	95.3	111.7	132.6	145.7	169.8	184.0	200.5	216.9	221.3
63.5	62.5°	75.6	97.5	111.7	130.4	153.4	172.0	185.1	201.6	208.1
49.3	65°	55.9	80.0	96.4	116.1	138.0	157.7	168.7	186.2	190.6
35.1	67.5°	40.5	62.4	82.2	100.8	121.6	141.3	152.3	167.6	170.9
21.9	70°	31.8	46.0	67.9	84.4	106.3	122.7	134.7	144.6	147.9
14.2	72.5°	18.6	35.1	54.8	73.4	93.1	104.1	112.8	121.6	123.8
6.6	75°	12.1	27.4	44.9	61.3	75.6	85.4	93.1	100.8	101.9
3.3	77.5°	7.7	19.7	36.2	51.5	58.1	70.1	76.7	81.1	78.9
2.2	80°	4.4	15.3	31.8	41.6	47.1	54.8	61.3	66.8	61.3
2.2	82.5°	3.3	13.1	26.3	35.1	35.1	43.8	47.1	47.1	44.9
1.1	85°	2.2	11.0	20.8	32.9	26.3	32.9	30.7	30.7	30.7
1.1	87.5°	2.2	7.7	9.9	14.2	12.1	14.2	14.2	16.4	16.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
99909.4
96711.6
92226.7
84671.2
75406.6
65266.8
55556.4
46147.3
38057.2
30947.5
25018.7
15672.0
10088.3
6794.2
4560.5
3003.8
1964.2
1347.4
979.4
755.9
609.1
512.7
444.8
394.4
350.6
315.5
288.1
266.2
249.8
233.3
221.3
209.2
189.5
168.7
147.9
123.8
100.8
78.9
60.3
43.8
29.6
16.4
0.0

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