

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: P637204

Luminaire Tested: **IFLD-S-SA2D-827-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637204
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-827-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11433.2 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

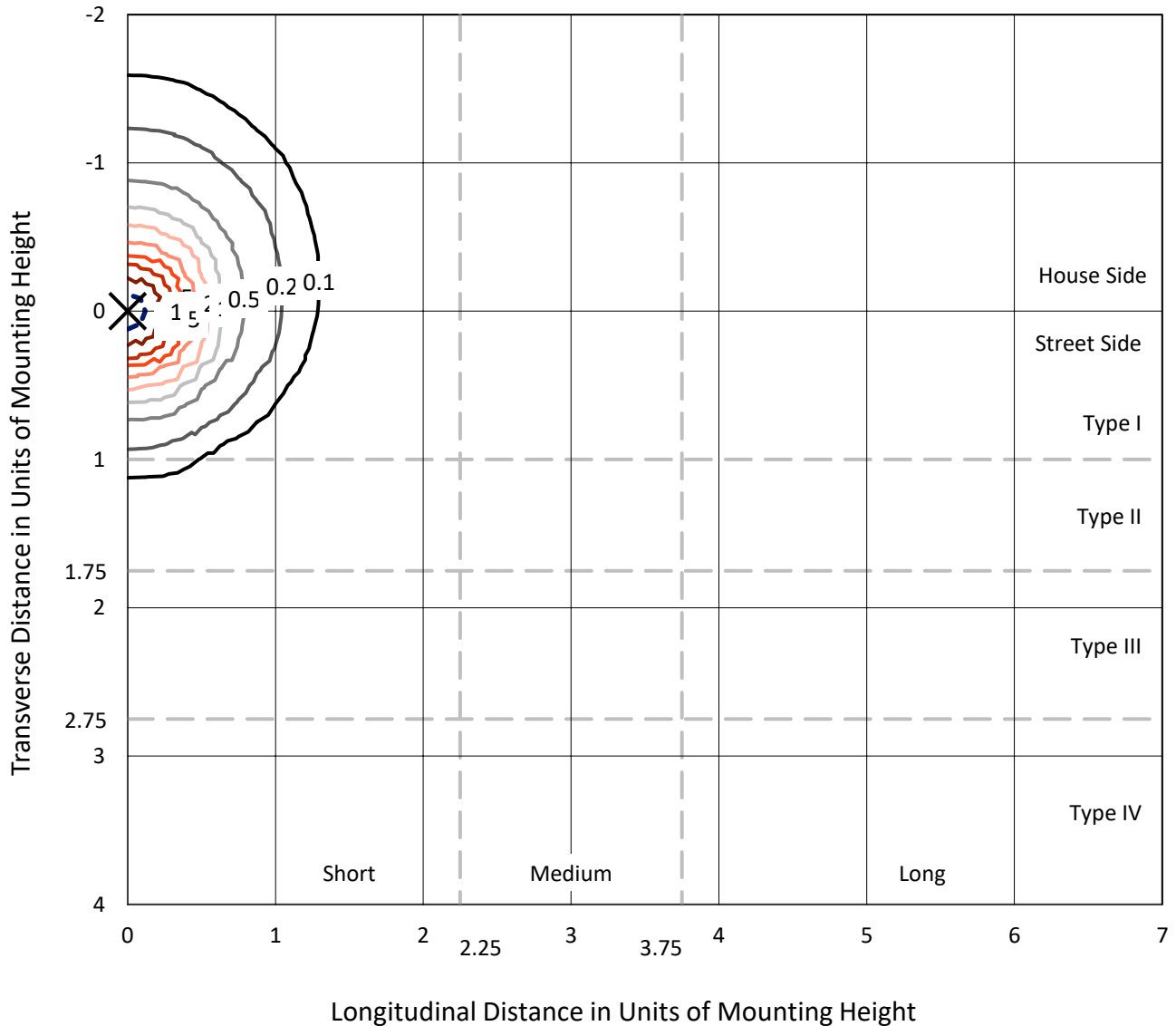
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

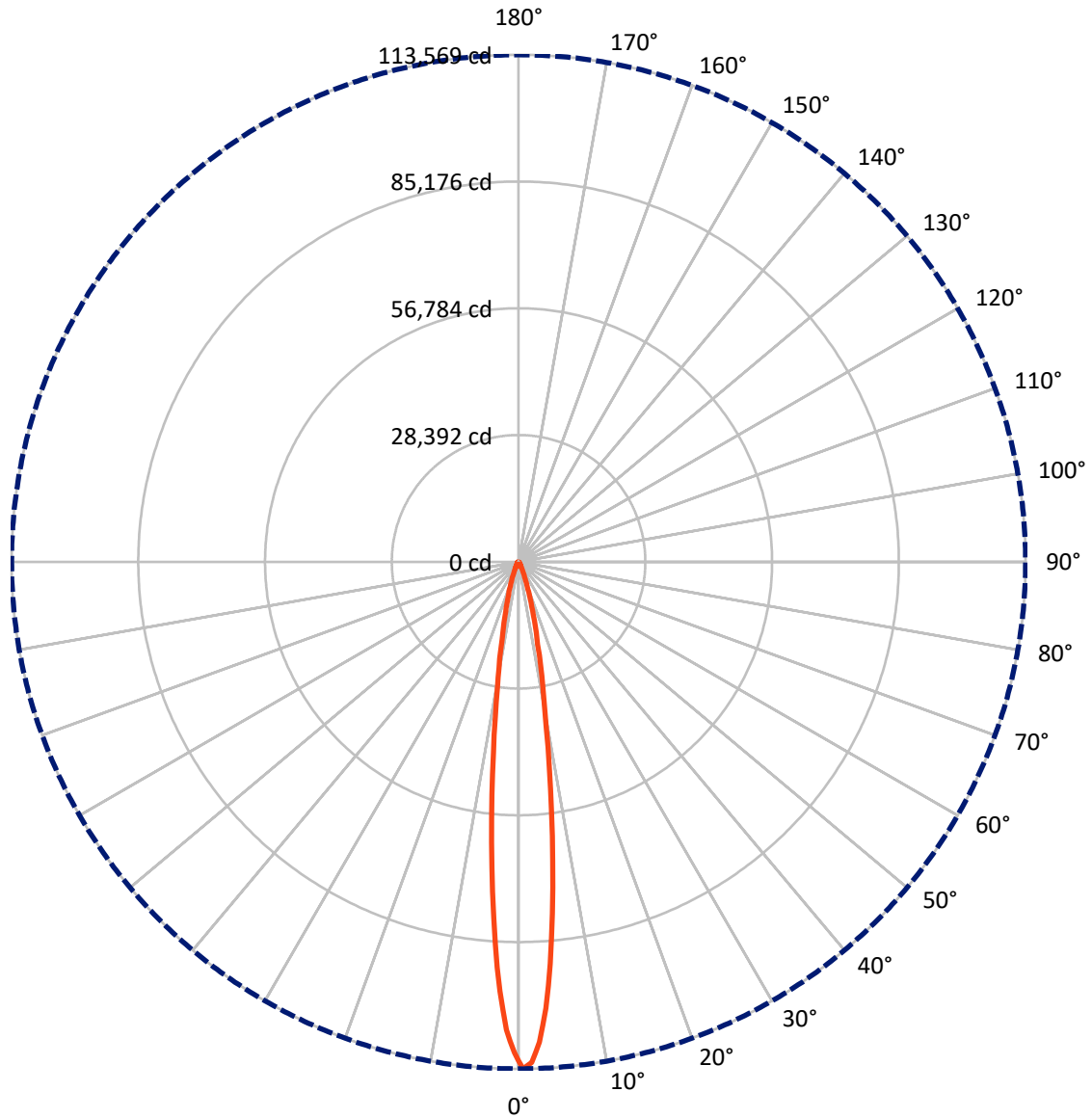
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 283.9 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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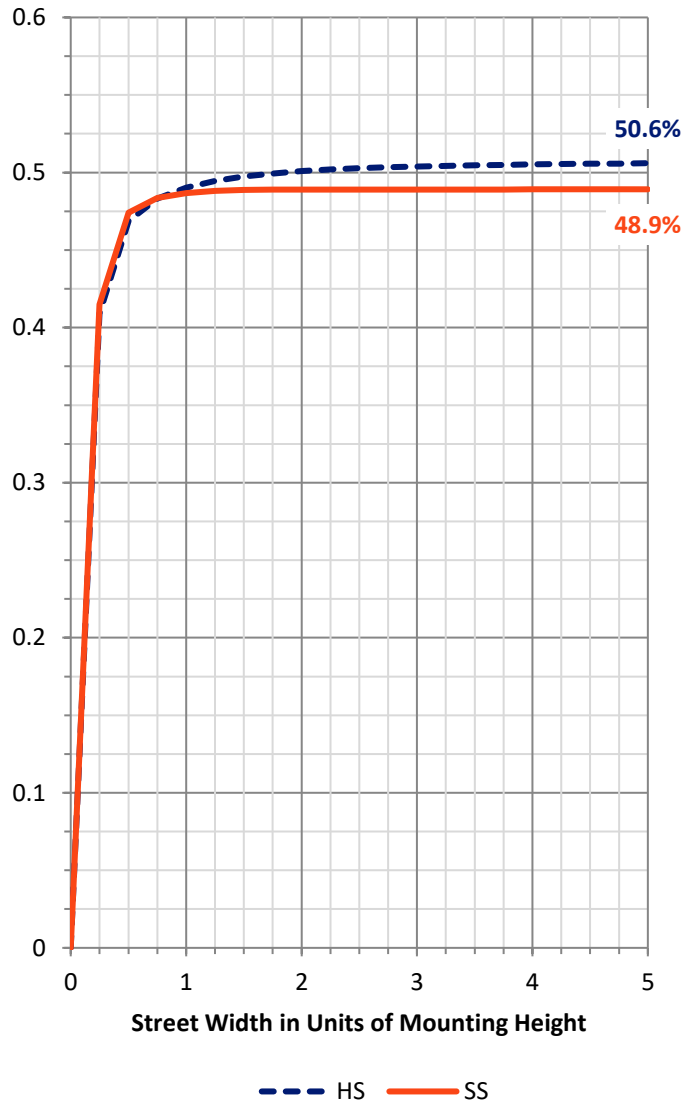
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5855.9	0.0	5855.9
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	5577.3	0.0	5577.3
	% Fixture	48.8	0.0	48.8
Total	Lumens	11433.2	0.0	11433.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5771.8	50.5
10°-20°	3695.1	32.3
20°-30°	1110.7	9.7
30°-40°	361.6	3.2
40°-50°	210.4	1.8
50°-60°	139.8	1.2
60°-70°	84.1	0.7
70°-80°	43.2	0.4
80°-90°	16.4	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°	11433.2	100.0
0°-180°	11433.2	100.0



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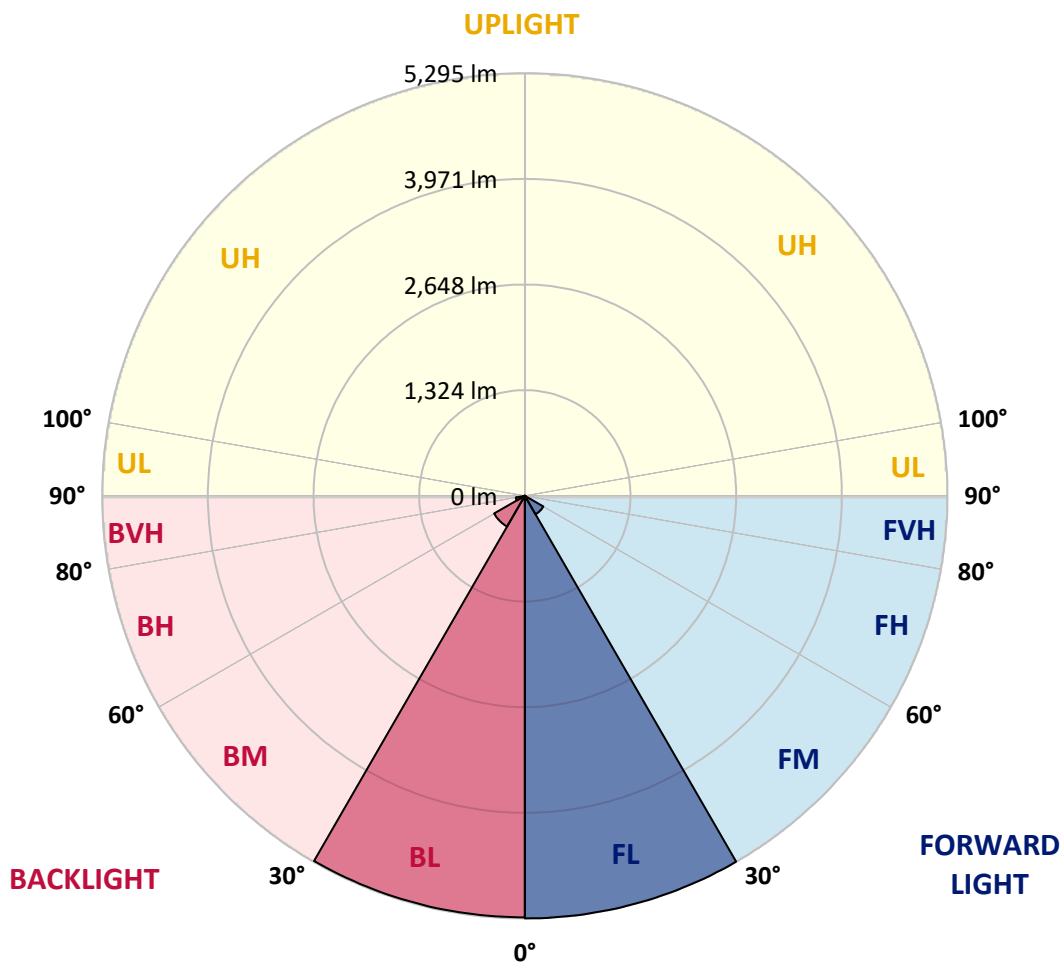
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5295.1	46.3			
FM (30°-60°)	267.2	2.3			
FH (60°-80°)	12.6	0.1			G0/660
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	5282.5	46.2	B5		
BM (30°-60°)	444.6	3.9	B1/1000		
BH (60°-80°)	114.8	1.0	B1/500		G0/660
BVH (80°-90°)	14.0	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°	113568.5	113568.5	113568.5	113568.5	113568.5	113568.5	113568.5	113568.5	113568.5	113568.5
1°	112208.7	111866.2	110982.1	111610.9	112163.8	112003.2	111992.0	111932.2	111848.8	112503.8
2°	107723.2	107501.6	106194.1	106733.3	107519.0	106946.2	107304.8	106989.8	106996.0	107778.0
3°	100162.1	100282.9	98197.1	99177.1	100269.2	98880.7	99311.6	100121.0	99273.0	99017.7
4°	90334.5	89286.0	88146.6	89142.8	89425.5	88617.3	89411.8	90403.0	89225.0	89277.3
5°	79114.8	78340.2	76991.6	77606.8	76905.7	77161.0	78351.4	78759.9	77938.0	76903.2
6°	67578.7	67028.3	65342.3	66228.9	65979.8	65835.4	67338.4	66093.1	66541.4	65915.1
7°	56212.0	55183.5	54355.4	55204.6	55259.4	54824.8	56776.1	56549.5	55733.9	55544.6
8°	46572.5	45546.4	44845.4	45477.9	45891.4	45209.0	46126.7	46729.4	46091.9	46149.1
9°	37563.1	37382.5	36407.5	37234.4	37683.9	36952.9	37969.1	38187.0	37590.5	37880.6
10°	30842.5	30632.0	29853.7	30188.7	30933.4	30061.7	31036.7	31107.7	30632.0	30767.8
12.5°	19059.9	18975.2	18954.0	19002.6	18992.6	19147.0	19396.1	19112.2	19074.8	18605.4
15°	12319.3	12445.1	12315.6	12564.6	12600.7	12746.4	12594.5	12365.4	11928.3	11711.6
17.5°	7688.2	7848.8	8070.5	8435.4	8800.2	8842.6	8640.8	8371.8	8160.2	7928.5
20°	4423.1	4501.6	4468.0	4905.1	5849.0	6105.5	5845.2	5562.6	5307.3	5073.2
22.5°	2748.3	2719.6	2771.9	2918.9	3226.5	4019.7	3806.7	3524.1	3338.5	3145.5
25°	1684.8	1716.0	1696.0	1777.0	1915.2	2251.4	2300.0	2178.0	2083.3	1983.7
27.5°	1084.6	1084.6	1093.3	1138.2	1232.8	1221.6	1480.6	1386.0	1334.9	1286.3
30°	753.4	755.9	755.9	782.0	803.2	765.8	833.1	955.1	931.5	894.1
32.5°	559.1	566.6	572.8	586.5	569.1	529.2	545.4	687.4	673.7	660.0
35°	425.9	432.1	447.0	454.5	429.6	404.7	389.8	505.6	511.8	508.1
37.5°	310.1	313.8	341.2	369.8	341.2	318.8	310.1	388.5	418.4	414.7
40°	237.8	239.1	244.1	276.4	276.4	259.0	261.5	290.1	342.4	342.4
42.5°	204.2	204.2	209.2	204.2	205.5	224.1	230.4	234.1	290.1	290.1
45°	176.8	176.8	179.3	166.9	154.4	193.0	198.0	199.2	244.1	250.3
47.5°	148.2	148.2	153.2	137.0	130.8	153.2	166.9	170.6	210.4	215.4
50°	109.6	110.8	125.8	112.1	115.8	118.3	144.4	146.9	178.1	189.3
52.5°	73.5	73.5	76.0	87.2	100.9	97.1	117.1	125.8	142.0	156.9
55°	59.8	59.8	58.5	56.0	74.7	80.9	85.9	104.6	115.8	134.5
57.5°	41.1	43.6	39.8	46.1	48.6	61.0	64.8	82.2	88.4	113.3
60°	5.0	6.2	8.7	33.6	32.4	41.1	48.6	64.8	72.2	87.2
62.5°	1.2	1.2	2.5	6.2	22.4	27.4	38.6	44.8	52.3	67.2
65°	0.0	0.0	1.2	2.5	5.0	14.9	19.9	26.2	37.4	47.3
67.5°	0.0	0.0	1.2	2.5	2.5	6.2	10.0	16.2	19.9	34.9
70°	0.0	0.0	1.2	2.5	2.5	5.0	6.2	7.5	13.7	18.7
72.5°	0.0	0.0	1.2	2.5	3.7	5.0	6.2	6.2	6.2	12.5
75°	0.0	0.0	1.2	2.5	3.7	5.0	6.2	6.2	5.0	5.0
77.5°	0.0	0.0	1.2	2.5	5.0	6.2	7.5	6.2	3.7	3.7
80°	0.0	0.0	1.2	3.7	6.2	8.7	10.0	7.5	3.7	2.5
82.5°	0.0	0.0	2.5	5.0	7.5	10.0	13.7	11.2	5.0	2.5
85°	0.0	0.0	1.2	3.7	7.5	10.0	19.9	13.7	6.2	1.2
87.5°	0.0	0.0	0.0	1.2	1.2	2.5	7.5	5.0	2.5	1.2
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°
113568.5	0°	113568.5	113568.5	113568.5	113568.5	113568.5	113568.5	113568.5	113568.5
111747.9	1°	112528.7	112607.1	112350.6	112747.9	112608.4	111791.5	111521.3	111201.2
107318.5	2°	106989.8	107389.5	107409.4	107850.3	107844.0	106891.4	106596.3	107140.5
99535.7	3°	99234.3	99700.1	99280.4	100063.7	99828.3	98672.7	98372.6	98990.3
89690.7	4°	89423.0	89334.6	89190.1	88744.3	89293.5	88505.2	87911.2	88749.3
78275.5	5°	78118.6	77921.8	77640.4	77508.4	77916.8	77412.5	76190.9	77415.0
67048.2	6°	67130.4	66283.7	66242.6	66169.1	66210.2	64798.1	64882.8	65794.3
54893.3	7°	55473.6	55629.3	55311.7	55821.0	55432.5	54476.2	54107.6	55067.7
46400.7	8°	46076.9	45880.2	45637.3	46398.2	45724.5	45096.9	44667.3	45425.6
37928.0	9°	37857.0	37517.0	37270.5	37231.9	37336.5	36158.5	36397.5	36971.6
30842.5	10°	30853.7	30295.8	30431.5	30467.6	30353.1	29581.0	29588.5	29786.5
18916.7	12.5°	18849.4	18575.5	18644.0	18681.3	18914.2	18642.7	18259.2	17982.7
11927.0	15°	11847.4	11650.6	12052.8	12323.0	12268.2	12026.7	11846.1	11595.8
7928.5	17.5°	7855.1	8112.8	8114.1	8360.6	8385.5	8144.0	8004.5	7779.1
5156.6	20°	5137.9	5245.0	5467.9	5642.2	5743.1	5558.8	5392.0	5237.5
3215.2	22.5°	3215.2	3402.0	3541.5	3768.1	3860.3	3725.8	3607.5	3481.7
2007.4	25°	1973.7	2107.0	2222.8	2419.5	2545.3	2480.5	2372.2	2283.8
1296.3	27.5°	1316.2	1372.3	1429.6	1565.3	1696.0	1659.9	1616.3	1562.8
914.0	30°	927.7	932.7	993.7	1069.7	1156.8	1179.3	1159.3	1131.9
671.2	32.5°	683.6	703.6	732.2	779.5	838.1	891.6	881.6	869.2
513.0	35°	528.0	557.9	581.5	617.6	648.8	699.8	708.5	704.8
422.1	37.5°	430.9	457.0	480.7	501.8	528.0	562.9	590.3	591.5
348.7	40°	357.4	381.0	412.2	428.4	447.0	473.2	506.8	509.3
295.1	42.5°	301.4	323.8	354.9	374.8	388.5	413.4	447.0	452.0
252.8	45°	259.0	272.7	305.1	328.7	342.4	358.6	394.7	399.7
217.9	47.5°	225.4	239.1	259.0	292.6	305.1	320.0	348.7	357.4
193.0	50°	198.0	211.7	229.1	259.0	277.7	290.1	313.8	326.3
168.1	52.5°	175.6	189.3	208.0	231.6	252.8	264.0	286.4	302.6
137.0	55°	146.9	170.6	184.3	205.5	234.1	244.1	261.5	282.7
119.5	57.5°	128.3	148.2	168.1	185.5	214.2	226.6	244.1	264.0
94.6	60°	108.3	127.0	150.7	165.6	193.0	209.2	227.9	246.6
72.2	62.5°	85.9	110.8	127.0	148.2	174.3	195.5	210.4	229.1
56.0	65°	63.5	90.9	109.6	132.0	156.9	179.3	191.8	211.7
39.8	67.5°	46.1	71.0	93.4	114.6	138.2	160.6	173.1	190.5
24.9	70°	36.1	52.3	77.2	95.9	120.8	139.5	153.2	164.4
16.2	72.5°	21.2	39.8	62.3	83.4	105.8	118.3	128.3	138.2
7.5	75°	13.7	31.1	51.1	69.7	85.9	97.1	105.8	114.6
3.7	77.5°	8.7	22.4	41.1	58.5	66.0	79.7	87.2	92.1
2.5	80°	5.0	17.4	36.1	47.3	53.5	62.3	69.7	76.0
2.5	82.5°	3.7	14.9	29.9	39.8	39.8	49.8	53.5	53.5
1.2	85°	2.5	12.5	23.7	37.4	29.9	37.4	34.9	34.9
1.2	87.5°	2.5	8.7	11.2	16.2	13.7	16.2	16.2	18.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
113568.5
109933.6
104835.5
96247.0
85715.9
74189.8
63151.8
52456.4
43260.1
35178.4
28439.1
17814.6
11467.6
7723.1
5184.0
3414.5
2232.7
1531.7
1113.3
859.2
692.4
582.8
505.6
448.3
398.5
358.6
327.5
302.6
283.9
265.2
251.5
237.8
215.4
191.8
168.1
140.7
114.6
89.7
68.5
49.8
33.6
18.7
0.0

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