

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: P637783

Luminaire Tested: **IFLD-S-SA2C-722-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637783
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-722-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8828.1 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

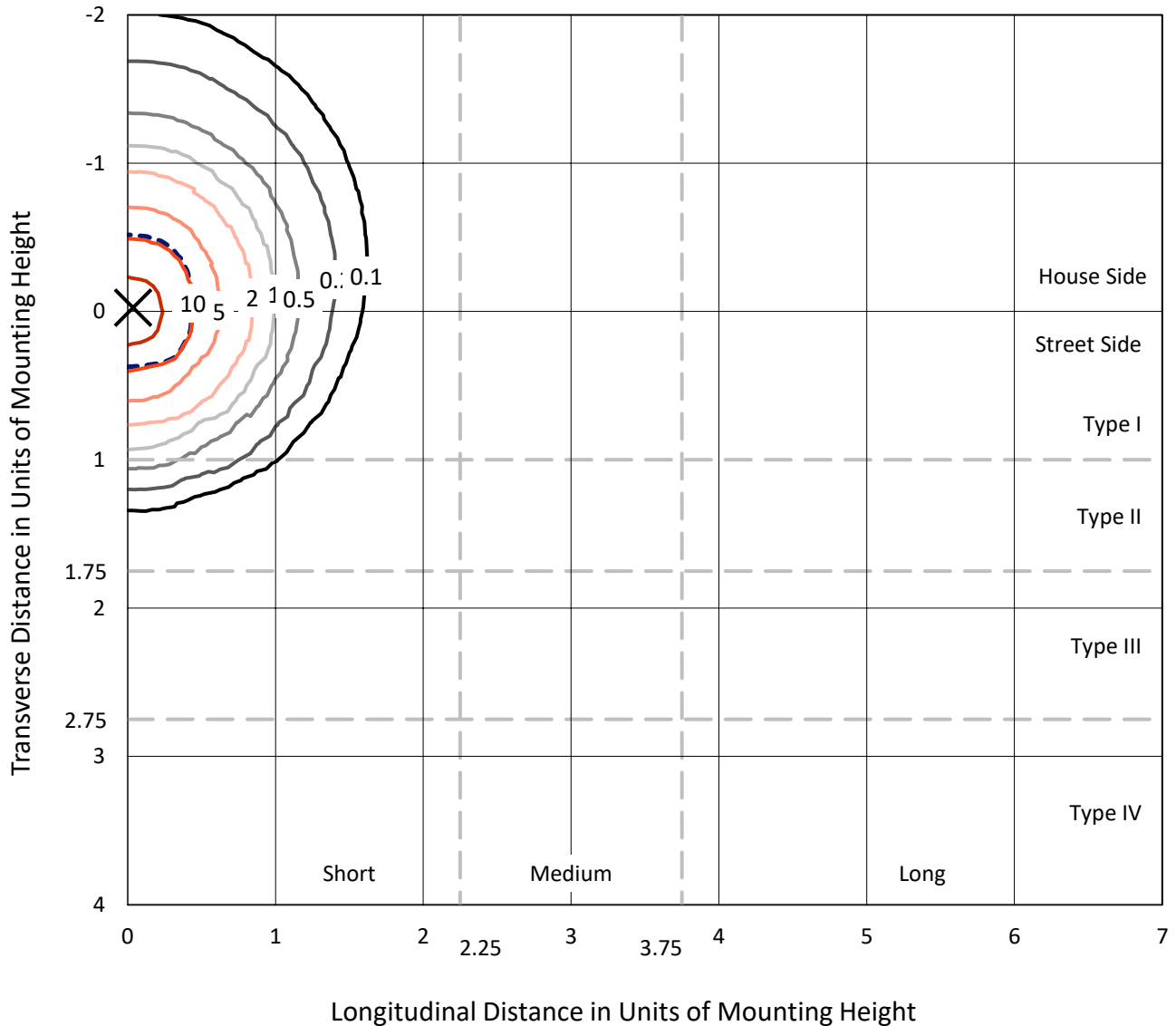
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

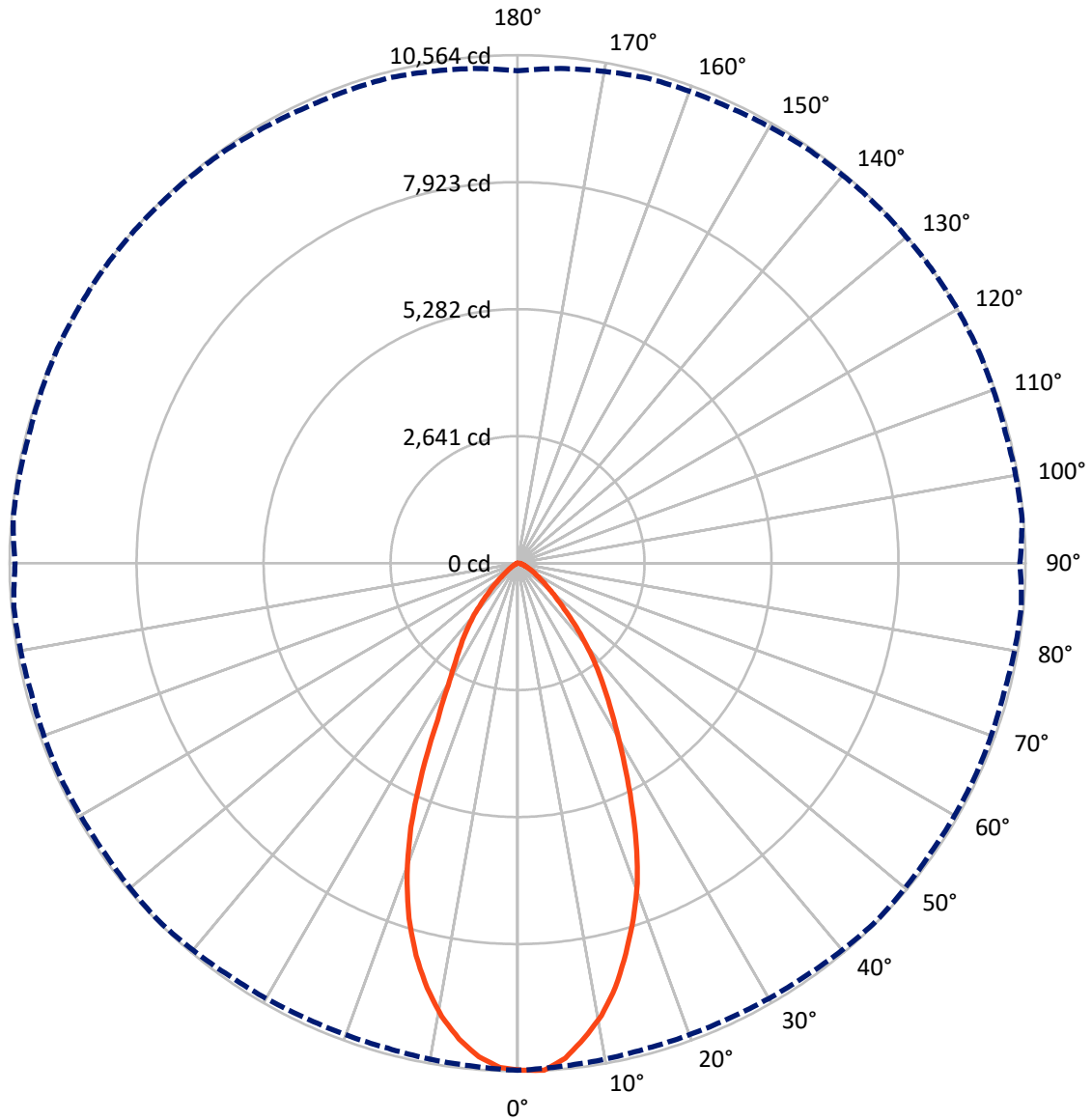
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 26.4 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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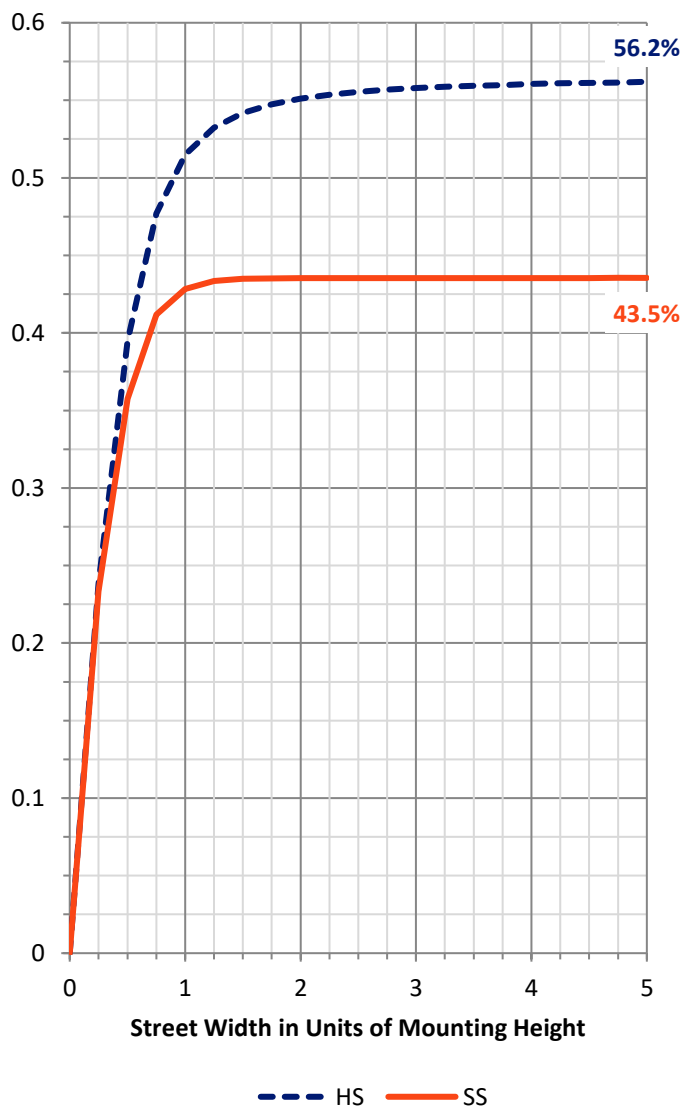
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5009.4	0.0	5009.4
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	3818.7	0.0	3818.7
	% Fixture	43.3	0.0	43.3
Total	Lumens	8828.1	0.0	8828.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	957.7	10.8
10°-20°	2283.1	25.9
20°-30°	2325.2	26.3
30°-40°	1733.9	19.6
40°-50°	905.8	10.3
50°-60°	381.0	4.3
60°-70°	155.6	1.8
70°-80°	65.5	0.7
80°-90°	20.2	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°	8828.1	100.0
0°-180°	8828.1	100.0



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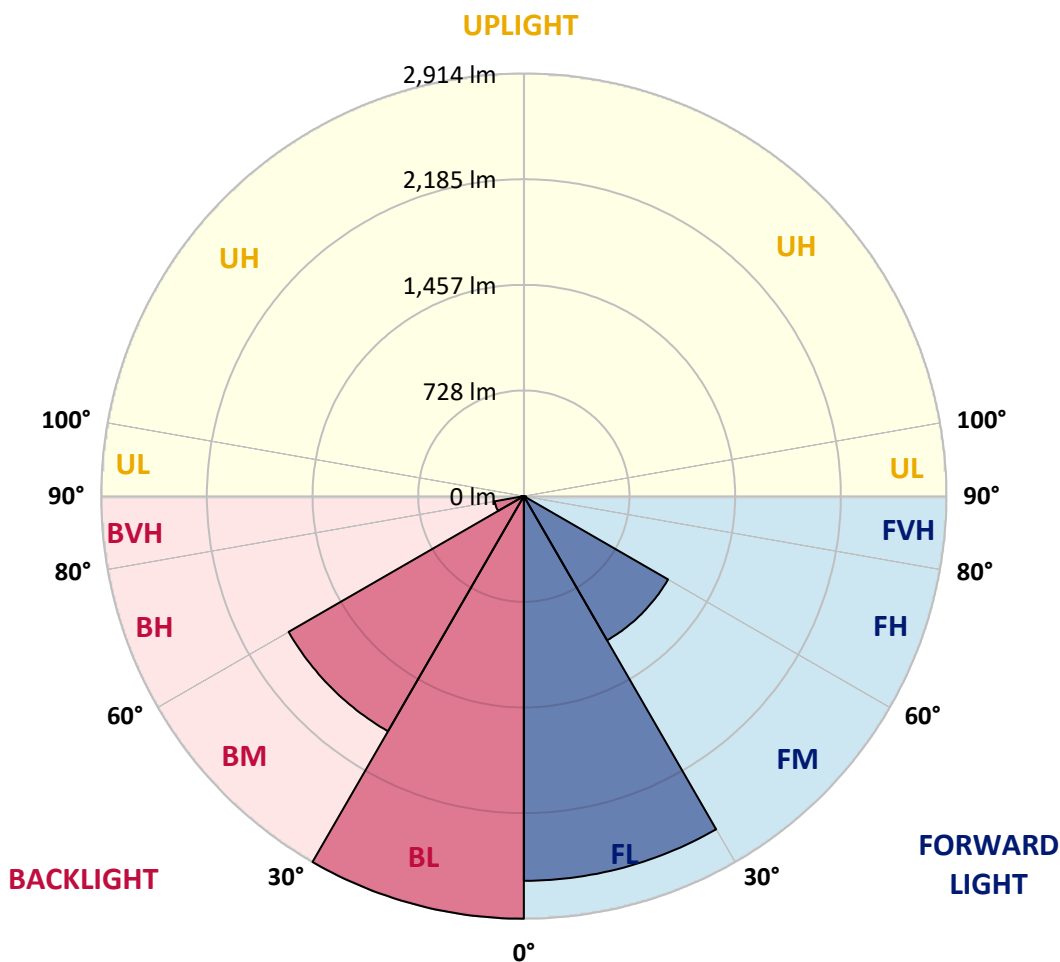
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2652.1	30.0			
FM (30°-60°)	1148.1	13.0			
FH (60°-80°)	16.6	0.2			G0/660
FVH (80°-90°)	1.9	0.0			G0/10
BL (0°-30°)	2914.0	33.0	B4/5000		
BM (30°-60°)	1872.7	21.2	B2/2500		
BH (60°-80°)	204.5	2.3	B1/500		G1/500
BVH (80°-90°)	18.3	0.2			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10547.4	10547.4	10547.4	10547.4	10547.4	10547.4	10547.4	10547.4	10547.4	10547.4
2.5°	10548.6	10505.5	10444.2	10438.6	10470.3	10539.5	10495.3	10497.5	10470.3	10516.8
5°	10383.0	10342.2	10300.2	10244.6	10291.1	10320.6	10297.9	10273.0	10237.8	10283.2
7.5°	10070.0	10047.3	9985.0	9960.0	9988.4	10021.2	9972.5	9965.7	9916.9	9975.9
10°	9591.5	9582.4	9521.1	9506.4	9531.4	9581.3	9559.7	9555.2	9524.6	9518.9
12.5°	9094.8	9059.6	8983.6	8979.1	9016.5	9091.4	9033.5	8978.0	8995.0	9009.7
15°	7815.6	7778.2	7966.4	8262.4	8417.8	8412.1	8429.1	8362.2	8341.8	8348.6
17.5°	6213.2	6149.7	6217.8	6675.9	7414.2	7842.8	7724.9	7580.9	7503.7	7452.7
20°	5362.7	5366.1	5353.7	5471.6	5932.0	6909.5	6881.2	6603.3	6502.4	6460.5
22.5°	4845.6	4826.3	4799.1	4836.6	4960.2	5534.0	5918.4	5663.2	5628.1	5581.6
25°	4338.7	4338.7	4305.8	4343.3	4378.4	4386.4	4771.9	4876.2	4808.2	4808.2
27.5°	3899.9	3877.2	3862.4	3879.4	3833.0	3609.6	3658.3	4192.4	4145.9	4117.6
30°	3464.4	3457.6	3432.6	3455.3	3283.0	3031.2	2929.1	3538.1	3586.9	3576.7
32.5°	2860.0	2887.2	2998.3	3033.5	2738.6	2535.6	2438.1	2937.1	3132.1	3124.2
35°	1943.7	1966.4	2093.4	2513.0	2270.3	2125.1	2096.8	2336.1	2657.0	2687.6
37.5°	1547.9	1544.5	1580.8	1655.7	1824.6	1789.5	1781.5	1843.9	2167.1	2180.7
40°	1275.8	1271.2	1270.1	1208.9	1166.9	1487.8	1466.3	1428.9	1709.0	1736.2
42.5°	1028.5	1033.1	1036.5	902.7	841.4	1147.6	1135.1	1096.6	1340.4	1372.2
45°	807.4	806.3	813.1	672.5	655.5	733.7	848.2	817.6	1011.5	1045.6
47.5°	418.4	433.2	525.0	520.5	528.4	520.5	641.8	633.9	760.9	815.4
50°	281.2	285.8	293.7	294.8	416.2	383.3	435.5	493.3	533.0	616.9
52.5°	217.7	221.1	200.7	188.2	255.2	283.5	285.8	341.3	372.0	457.0
55°	121.3	136.1	146.3	147.4	140.6	209.8	208.7	252.9	276.7	333.4
57.5°	15.9	19.3	29.5	95.3	94.1	116.8	146.3	183.7	197.3	243.8
60°	1.1	2.3	3.4	14.7	62.4	68.0	99.8	114.5	137.2	171.2
62.5°	0.0	0.0	1.1	3.4	12.5	39.7	52.2	60.1	80.5	112.3
65°	0.0	0.0	1.1	2.3	4.5	14.7	20.4	32.9	47.6	69.2
67.5°	0.0	0.0	1.1	2.3	3.4	5.7	9.1	14.7	24.9	42.0
70°	0.0	0.0	1.1	2.3	3.4	4.5	6.8	9.1	13.6	22.7
72.5°	0.0	0.0	1.1	1.1	2.3	5.7	5.7	6.8	9.1	12.5
75°	0.0	0.0	1.1	2.3	3.4	5.7	5.7	5.7	6.8	7.9
77.5°	0.0	0.0	1.1	2.3	3.4	5.7	4.5	5.7	5.7	5.7
80°	0.0	0.0	1.1	2.3	3.4	5.7	6.8	5.7	4.5	4.5
82.5°	0.0	0.0	1.1	3.4	3.4	7.9	7.9	7.9	3.4	3.4
85°	0.0	0.0	2.3	3.4	5.7	9.1	9.1	6.8	3.4	2.3
87.5°	0.0	0.0	1.1	2.3	2.3	4.5	6.8	5.7	2.3	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°
10547.4	0°	10547.4	10547.4	10547.4	10547.4	10547.4	10547.4	10547.4	10547.4	10547.4
10448.8	2.5°	10532.7	10504.3	10557.6	10564.4	10541.8	10513.4	10447.6	10442.0	10327.4
10217.4	5°	10333.1	10286.6	10320.6	10343.3	10335.4	10304.7	10277.5	10252.6	10149.4
9842.1	7.5°	9961.1	9944.1	9960.0	9977.0	10009.9	9977.0	9965.7	9939.6	9837.5
9472.4	10°	9548.4	9516.6	9576.7	9568.8	9559.7	9550.6	9503.0	9507.5	9387.3
8968.9	12.5°	9041.5	8988.2	9046.0	9052.8	9046.0	9014.2	8960.9	8983.6	8873.6
8288.5	15°	8359.9	8354.3	8396.2	8423.4	8442.7	8408.7	8390.5	8401.9	8336.1
7413.0	17.5°	7523.0	7596.7	7733.9	7780.4	7781.6	7816.7	7806.5	7792.9	7744.2
6443.4	20°	6538.7	6680.5	6891.4	7108.0	7170.3	7140.9	7127.3	7152.2	7079.6
5532.8	22.5°	5630.4	5751.7	5996.6	6313.0	6495.6	6513.8	6510.4	6488.8	6460.5
4803.7	25°	4859.2	4967.0	5201.7	5490.9	5841.3	5893.5	5895.7	5888.9	5864.0
4142.5	27.5°	4208.3	4338.7	4468.0	4726.6	5099.6	5315.1	5287.9	5280.0	5270.9
3584.6	30°	3618.6	3783.1	3904.4	4065.4	4400.0	4691.4	4719.7	4706.1	4684.6
3123.1	32.5°	3151.4	3248.9	3403.2	3512.0	3752.4	4082.4	4191.3	4181.1	4161.8
2706.9	35°	2745.4	2784.0	2905.3	3026.7	3186.6	3506.4	3667.4	3644.7	3641.3
2205.6	37.5°	2261.2	2390.5	2457.4	2579.9	2692.1	2940.5	3162.8	3152.5	3153.7
1773.6	40°	1825.8	1900.6	2033.3	2136.5	2239.7	2421.1	2668.3	2675.1	2672.9
1373.3	42.5°	1401.6	1474.2	1613.7	1726.0	1817.8	1930.1	2166.0	2173.9	2184.1
1069.4	45°	1094.3	1140.8	1242.9	1359.7	1457.2	1525.2	1704.4	1755.4	1756.6
829.0	47.5°	849.4	902.7	975.2	1087.5	1182.8	1231.5	1361.9	1431.1	1427.7
636.2	50°	666.8	715.6	774.5	863.0	966.2	1004.7	1101.1	1169.2	1165.8
479.7	52.5°	510.3	572.7	624.8	692.9	793.8	826.7	895.9	974.1	962.8
351.5	55°	386.7	450.2	499.0	555.7	647.5	689.5	737.1	799.5	801.7
272.2	57.5°	291.4	357.2	401.4	459.3	528.4	574.9	611.2	678.1	677.0
186.0	60°	208.7	265.4	318.7	378.8	432.1	485.4	510.3	573.8	576.1
131.5	62.5°	150.8	204.1	255.2	307.3	354.9	407.1	429.8	479.7	486.5
86.2	65°	105.5	142.9	201.9	241.5	294.8	333.4	362.9	406.0	413.9
51.0	67.5°	68.0	103.2	159.9	195.0	243.8	276.7	307.3	341.3	351.5
32.9	70°	40.8	78.2	119.1	156.5	200.7	230.2	259.7	289.2	294.8
15.9	72.5°	26.1	54.4	86.2	127.0	161.0	192.8	218.9	240.4	223.4
10.2	75°	14.7	37.4	68.0	99.8	130.4	161.0	182.6	193.9	155.4
6.8	77.5°	9.1	27.2	55.6	80.5	100.9	129.3	142.9	149.7	111.1
4.5	80°	5.7	20.4	46.5	65.8	65.8	95.3	111.1	116.8	80.5
3.4	82.5°	4.5	14.7	36.3	49.9	44.2	71.4	87.3	88.5	56.7
2.3	85°	3.4	11.3	22.7	32.9	30.6	49.9	51.0	56.7	37.4
2.3	87.5°	2.3	6.8	13.6	19.3	17.0	23.8	27.2	30.6	20.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10547.4
10237.8
10066.6
9816.0
9346.5
8841.9
8256.7
7671.6
7027.5
6406.0
5780.0
5217.6
4657.4
4110.8
3603.9
3117.4
2633.2
2150.1
1727.1
1415.2
1165.8
963.9
801.7
674.7
570.4
484.2
411.6
350.4
290.3
207.5
147.4
104.3
74.8
52.2
34.0
18.1
0.0

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