

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: P636611

Luminaire Tested: **IFLD-M-SA4E-930-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636611
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-930-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18448.9 lumens
Efficiency: N/A
Efficacy: 58.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

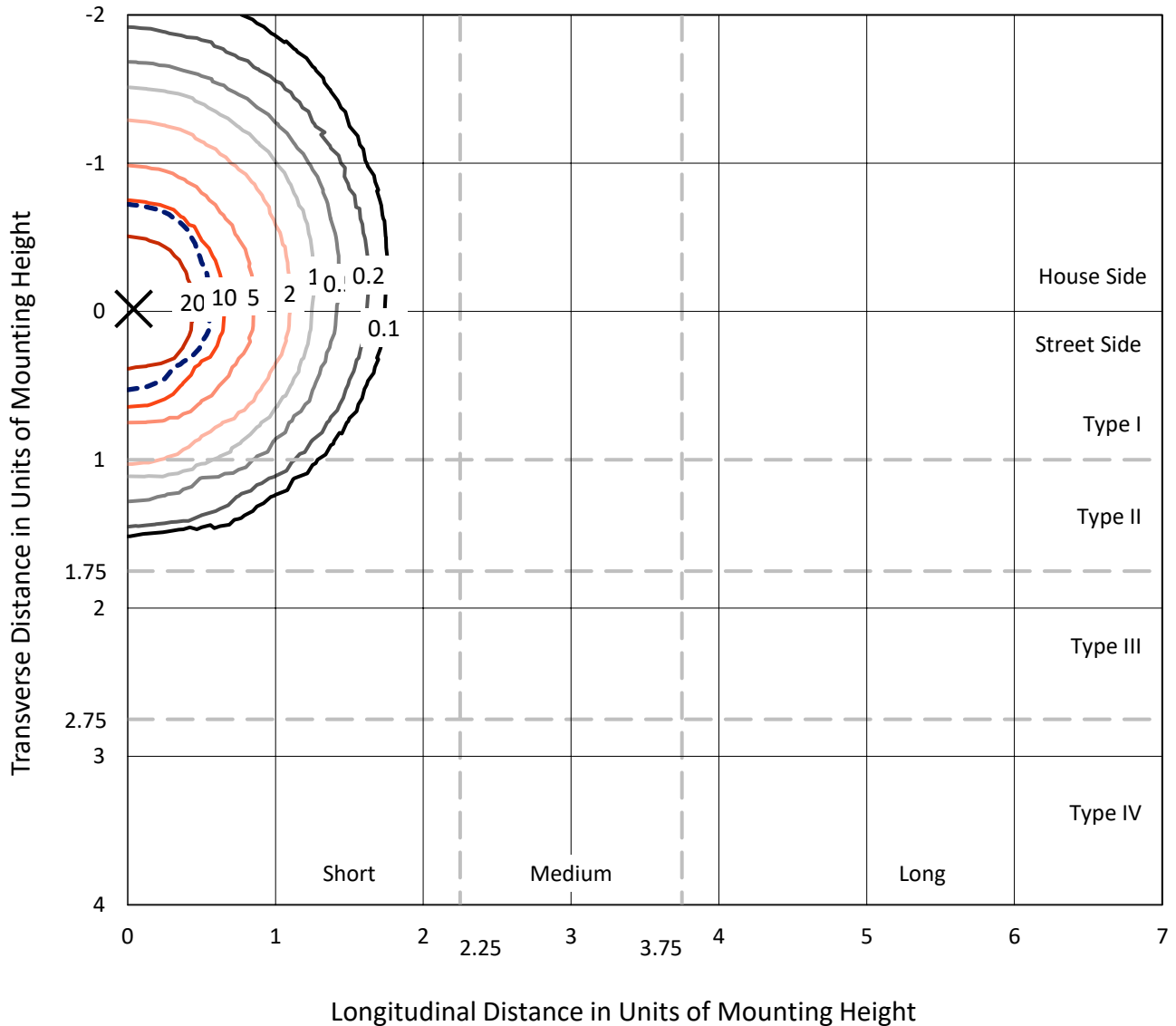
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

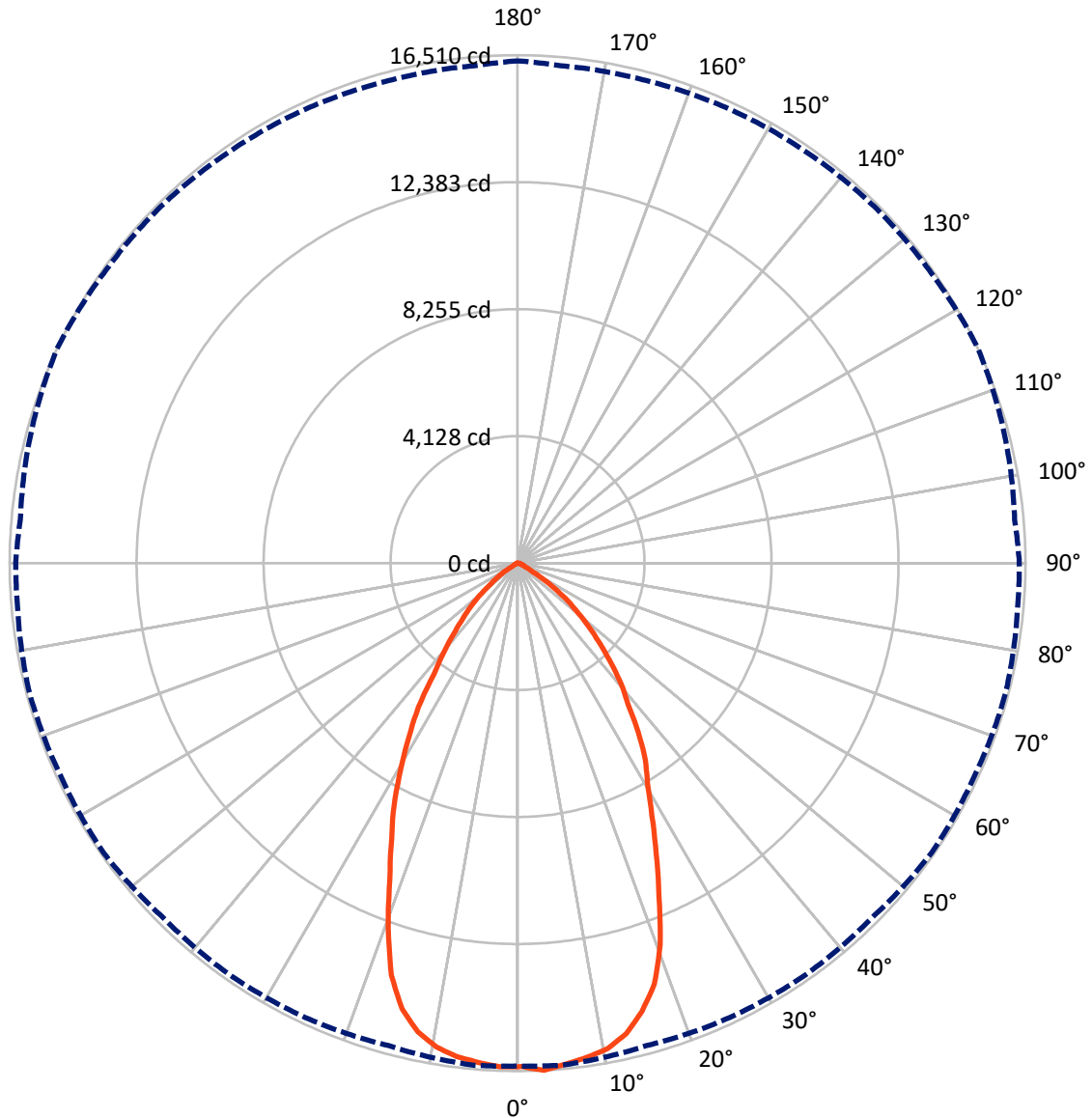
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 40.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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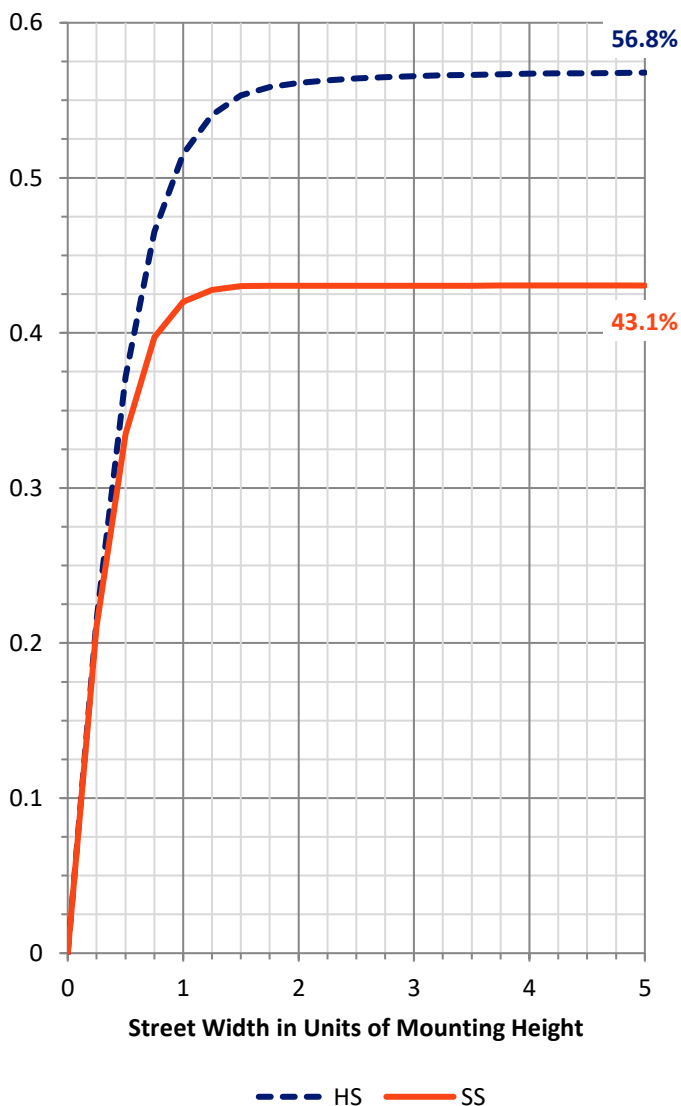
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10558.1	0.0	10558.1
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	7890.8	0.0	7890.8
	% Fixture	42.8	0.0	42.8
Total	Lumens	18448.9	0.0	18448.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1541.7	8.4
10°-20°	4087.9	22.2
20°-30°	4675.7	25.3
30°-40°	4007.0	21.7
40°-50°	2649.6	14.4
50°-60°	1156.1	6.3
60°-70°	227.2	1.2
70°-80°	82.0	0.4
80°-90°	21.8	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°	18448.9	100.0
0°-180°	18448.9	100.0



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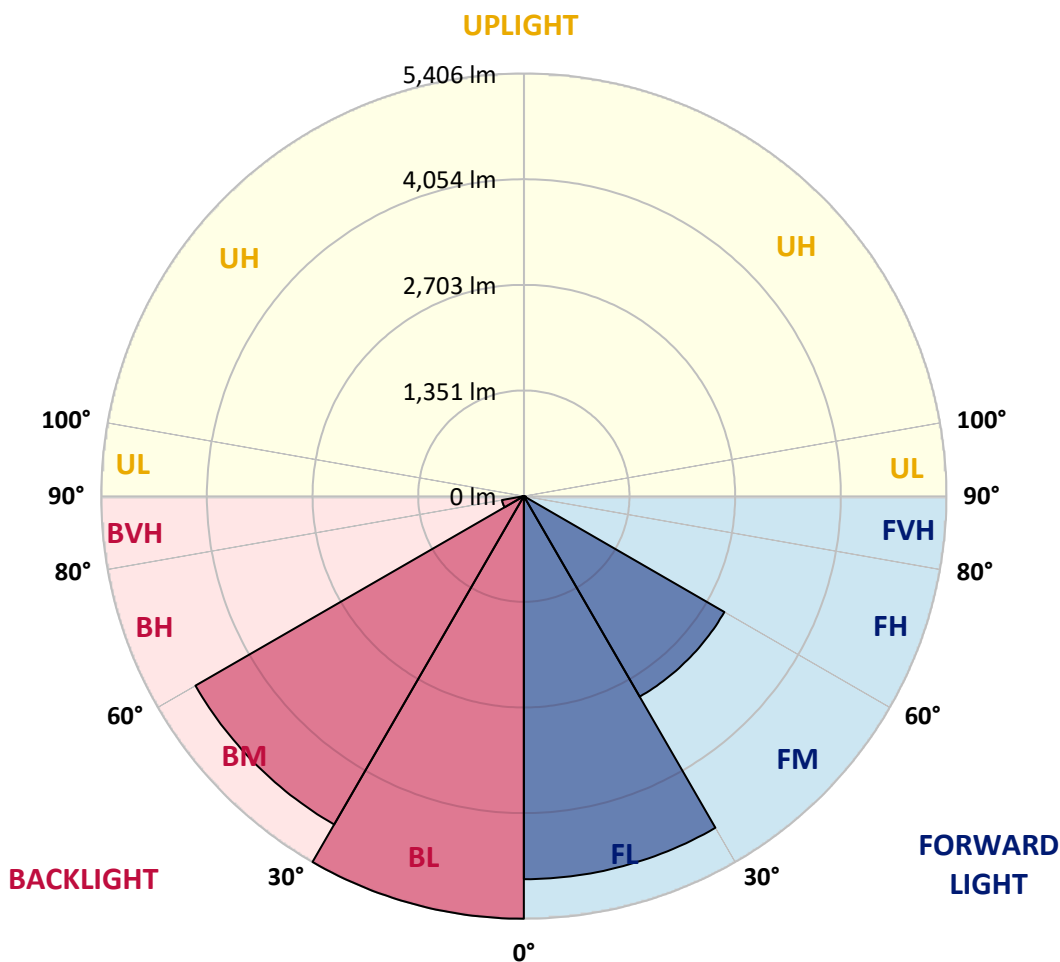
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4899.6	26.6			
FM	(30°-60°)	2962.5	16.1			
FH	(60°-80°)	25.1	0.1			G0/660
FVH	(80°-90°)	3.6	0.0			G0/10
BL	(0°-30°)	5405.7	29.3	B5		
BM	(30°-60°)	4850.2	26.3	B3/5000		
BH	(60°-80°)	284.0	1.5	B1/500		G1/500
BVH	(80°-90°)	18.2	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16368.9	16368.9	16368.9	16368.9	16368.9	16368.9	16368.9	16368.9	16368.9	16368.9
2.5°	16345.3	16384.5	16235.5	16302.2	16329.6	16294.3	16423.8	16384.5	16415.9	16317.9
5°	16345.3	16384.5	16212.0	16243.4	16251.2	16184.5	16325.7	16278.7	16282.6	16180.6
7.5°	16243.4	16290.4	16133.6	16157.1	16161.0	16106.1	16227.7	16161.0	16137.5	16031.6
10°	15968.8	15996.3	15855.1	15913.9	15968.8	15917.9	16023.8	15949.2	15949.2	15855.1
12.5°	15533.5	15584.5	15427.7	15498.3	15545.3	15486.5	15608.1	15580.6	15584.5	15490.4
15°	14741.4	14564.9	14753.1	14894.3	14898.2	14886.5	15000.2	14972.8	14992.4	14851.2
17.5°	10890.3	10847.2	11066.8	12733.5	13972.7	14141.4	14161.0	14012.0	13945.3	13808.0
20°	10090.3	10121.7	10074.6	10082.5	11059.0	13086.5	12964.9	12596.3	12427.6	12290.4
22.5°	9506.0	9455.0	9423.7	9404.1	9431.5	10753.1	11627.6	11070.7	10980.5	10913.9
25°	8870.7	8847.2	8808.0	8800.1	8784.4	8560.9	9819.7	9870.7	9725.6	9643.3
27.5°	8278.5	8262.9	8219.7	8215.8	8035.4	7494.2	7631.5	8843.3	8804.0	8772.7
30°	7647.2	7615.8	7592.3	7592.3	7047.2	6490.3	6266.8	7709.9	7709.9	7682.5
32.5°	6960.9	6933.4	6941.3	6847.2	6196.2	5686.4	5333.4	6655.0	7066.8	7043.2
35°	4255.0	4247.1	5043.2	6090.3	5325.6	4862.8	4839.3	5694.2	6294.2	6357.0
37.5°	3788.3	3764.8	3776.5	3843.2	4560.8	4376.5	4368.7	4513.8	5356.9	5388.3
40°	3400.0	3384.4	3372.6	3133.4	2905.9	3905.9	3878.5	3784.4	4576.5	4631.4
42.5°	3031.4	3015.7	3015.7	2678.5	2309.8	3211.8	3223.6	3113.8	3858.9	3878.5
45°	2651.0	2639.3	2572.6	2137.3	2031.4	2133.4	2670.6	2545.1	3062.8	3266.7
47.5°	1251.0	1243.2	1800.0	1776.5	1768.7	1705.9	2039.2	2109.8	2431.4	2635.3
50°	1003.9	996.1	949.0	835.3	1454.9	1294.1	1470.6	1623.6	1725.5	1913.8
52.5°	831.4	823.5	725.5	643.1	807.9	945.1	878.4	1086.3	1082.4	1286.3
55°	545.1	505.9	556.9	525.5	423.5	686.3	670.6	823.5	803.9	980.4
57.5°	11.8	11.8	27.5	298.0	266.7	290.2	384.3	470.6	529.4	580.4
60°	3.9	3.9	7.8	15.7	109.8	121.6	149.0	172.6	243.1	302.0
62.5°	0.0	0.0	3.9	7.8	15.7	62.7	70.6	82.4	113.7	156.9
65°	0.0	0.0	0.0	3.9	7.8	15.7	23.5	51.0	70.6	90.2
67.5°	0.0	0.0	0.0	3.9	3.9	7.8	15.7	23.5	31.4	62.7
70°	0.0	0.0	0.0	3.9	3.9	7.8	11.8	15.7	23.5	31.4
72.5°	0.0	0.0	0.0	3.9	3.9	11.8	7.8	11.8	15.7	19.6
75°	0.0	0.0	0.0	3.9	3.9	3.9	7.8	11.8	11.8	15.7
77.5°	0.0	0.0	0.0	3.9	7.8	7.8	7.8	7.8	7.8	11.8
80°	0.0	0.0	0.0	3.9	3.9	7.8	11.8	15.7	7.8	7.8
82.5°	0.0	0.0	0.0	7.8	3.9	15.7	23.5	19.6	7.8	3.9
85°	0.0	0.0	0.0	3.9	15.7	19.6	19.6	11.8	3.9	3.9
87.5°	0.0	0.0	0.0	3.9	3.9	7.8	11.8	11.8	3.9	3.9
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°
16368.9	0°	16368.9	16368.9	16368.9	16368.9	16368.9	16368.9	16368.9	16368.9	16368.9
16310.0	2.5°	16219.8	16372.8	16510.0	16423.8	16392.4	16329.6	16282.6	16231.6	16227.7
16168.9	5°	16078.7	16223.8	16357.1	16255.1	16263.0	16231.6	16200.2	16188.5	16196.3
16023.8	7.5°	15957.1	16078.7	16223.8	16137.5	16161.0	16141.4	16125.7	16102.2	16137.5
15835.5	10°	15772.8	15882.6	16051.2	15968.8	15957.1	15937.5	15921.8	15878.7	15898.3
15494.3	12.5°	15368.8	15506.1	15698.3	15604.1	15635.5	15580.6	15557.1	15529.6	15533.5
14902.2	15°	14819.8	14925.7	15121.8	15047.3	15070.8	15035.5	15035.5	15035.5	15063.0
13827.6	17.5°	13862.9	14078.6	14388.4	14294.3	14329.6	14337.5	14329.6	14357.1	14392.4
12298.2	20°	12306.1	12674.7	13239.4	13423.7	13498.2	13502.1	13447.2	13513.9	13584.5
10866.8	22.5°	10874.7	11262.9	11760.9	12266.8	12580.6	12564.9	12572.7	12615.9	12690.4
9592.3	25°	9635.4	10008.0	10459.0	10910.0	11596.2	11737.4	11741.3	11780.6	11839.4
8721.7	27.5°	8741.3	8886.4	9298.2	9753.1	10490.3	10941.3	10917.8	10953.1	11015.8
7631.5	30°	7662.9	8219.7	8313.8	8592.3	9227.6	10055.0	10059.0	10098.2	10160.9
6988.3	32.5°	6968.7	7337.4	7627.6	7635.4	8176.6	9027.6	9196.2	9235.4	9278.6
6321.7	35°	6317.7	6360.9	6753.0	6862.8	7176.6	8019.7	8317.8	8341.3	8411.9
5376.5	37.5°	5466.7	5721.6	5831.5	6223.6	6239.3	6921.7	7513.8	7490.3	7545.2
4627.5	40°	4686.3	4929.5	5207.9	5494.2	5533.4	6043.2	6698.1	6721.7	6745.2
3839.3	42.5°	3870.6	4180.5	4466.7	4658.9	4925.6	5219.7	5843.2	5953.0	6007.9
3290.2	45°	3349.1	3435.3	3776.5	4058.9	4329.5	4466.7	5051.1	5251.1	5286.3
2604.0	47.5°	2639.3	2929.5	3160.8	3400.0	3737.3	3858.9	4282.4	4560.8	4588.3
1933.4	50°	2039.2	2247.1	2564.7	2780.4	3172.6	3239.3	3529.5	3890.3	3925.5
1294.1	52.5°	1458.8	1741.2	2051.0	2258.9	2635.3	2721.6	2937.3	3282.4	3305.9
992.2	55°	1047.1	1231.4	1486.3	1784.3	2058.9	2251.0	2400.0	2729.4	2760.8
651.0	57.5°	713.7	886.3	992.2	1290.2	1454.9	1662.8	1784.3	2035.3	2058.9
309.8	60°	341.2	423.5	505.9	654.9	760.8	937.3	1015.7	1117.7	1145.1
188.2	62.5°	219.6	258.8	329.4	392.2	494.1	603.9	635.3	721.6	753.0
117.6	65°	145.1	184.3	258.8	274.5	376.5	462.8	502.0	564.7	600.0
70.6	67.5°	82.4	129.4	192.2	227.5	298.0	380.4	423.5	478.4	509.8
47.1	70°	54.9	105.9	152.9	188.2	235.3	305.9	360.8	407.8	427.5
23.5	72.5°	31.4	66.7	105.9	149.0	188.2	254.9	305.9	345.1	227.5
15.7	75°	19.6	51.0	90.2	125.5	156.9	203.9	247.1	243.1	102.0
11.8	77.5°	15.7	39.2	78.4	105.9	129.4	141.2	176.5	200.0	78.4
7.8	80°	11.8	31.4	70.6	90.2	51.0	102.0	137.3	149.0	54.9
7.8	82.5°	7.8	19.6	58.8	62.7	35.3	74.5	109.8	98.0	39.2
3.9	85°	3.9	11.8	19.6	35.3	31.4	35.3	27.5	39.2	27.5
3.9	87.5°	3.9	7.8	15.7	15.7	15.7	11.8	15.7	15.7	15.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
16368.9
16321.8
16294.3
16235.5
15992.4
15647.3
15074.7
14510.0
13631.6
12702.1
11941.3
11074.7
10270.7
9376.6
8486.4
7611.9
6819.7
6086.4
5372.6
4655.0
3976.5
3349.1
2788.3
2105.9
1176.5
760.8
600.0
505.9
423.5
184.3
102.0
78.4
58.8
39.2
27.5
15.7
0.0

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