

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: P637920

Luminaire Tested: **IFLD-L-SA7D-740-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637920
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-740-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41131.1 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

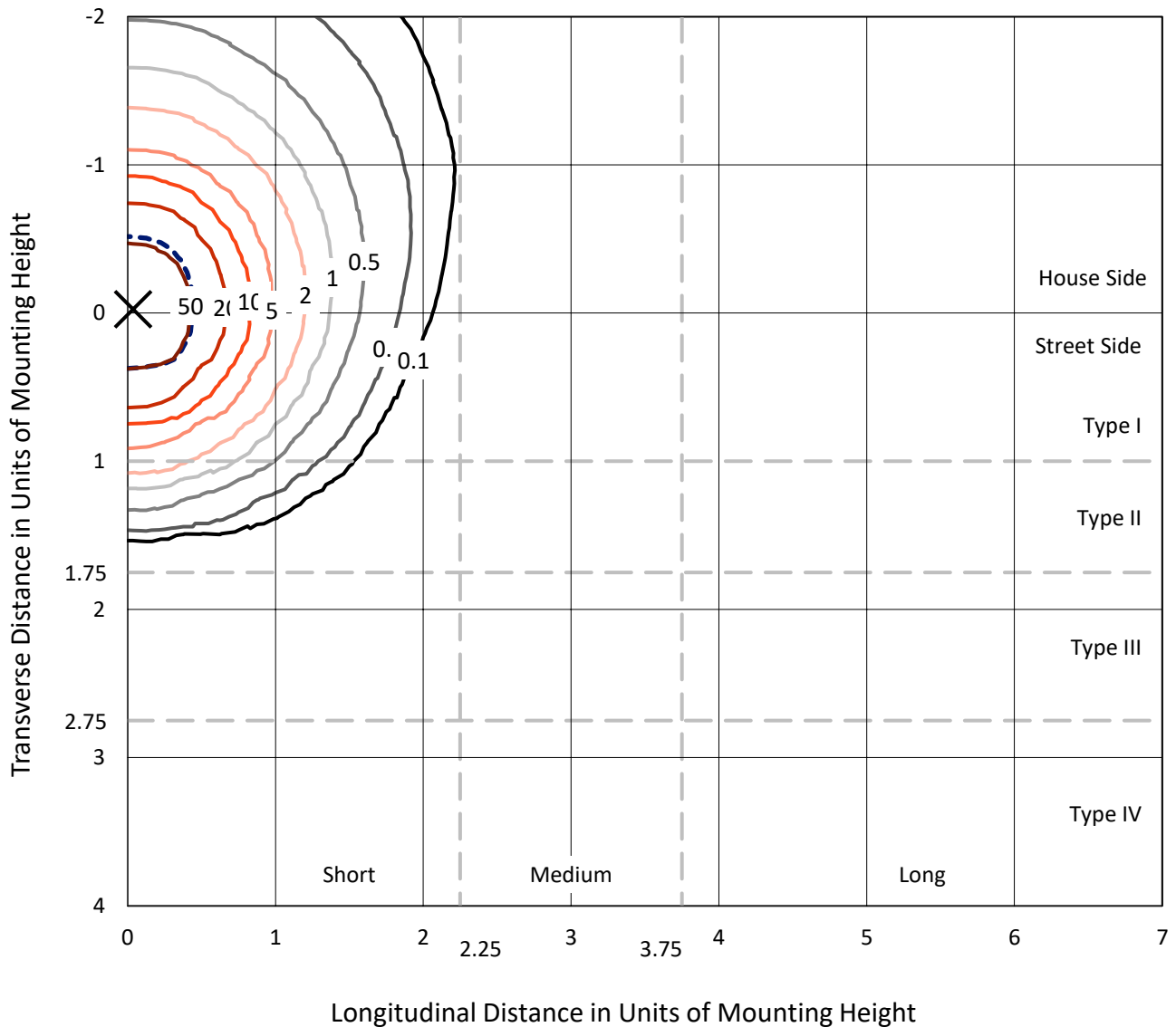
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

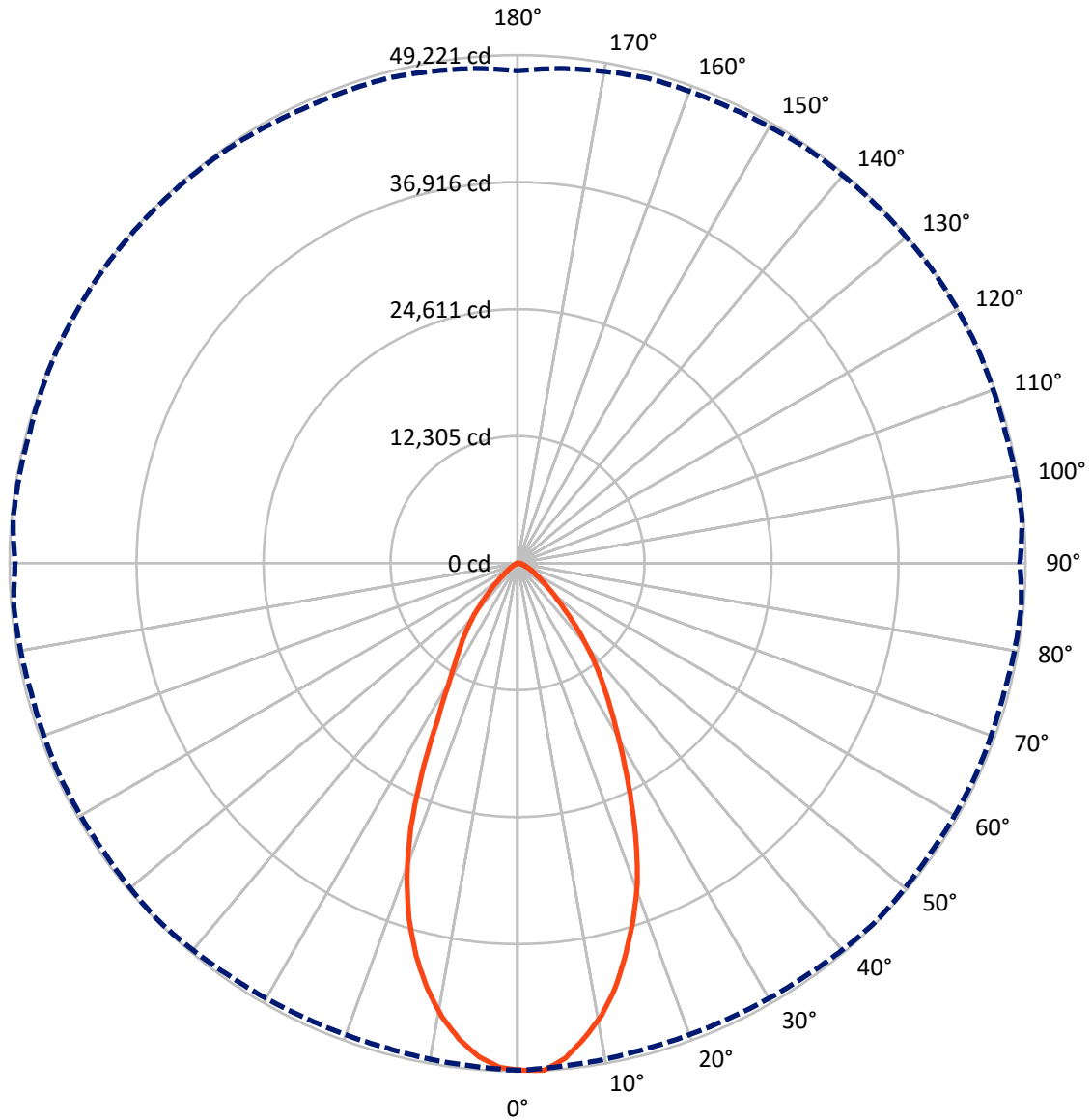
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 122.9 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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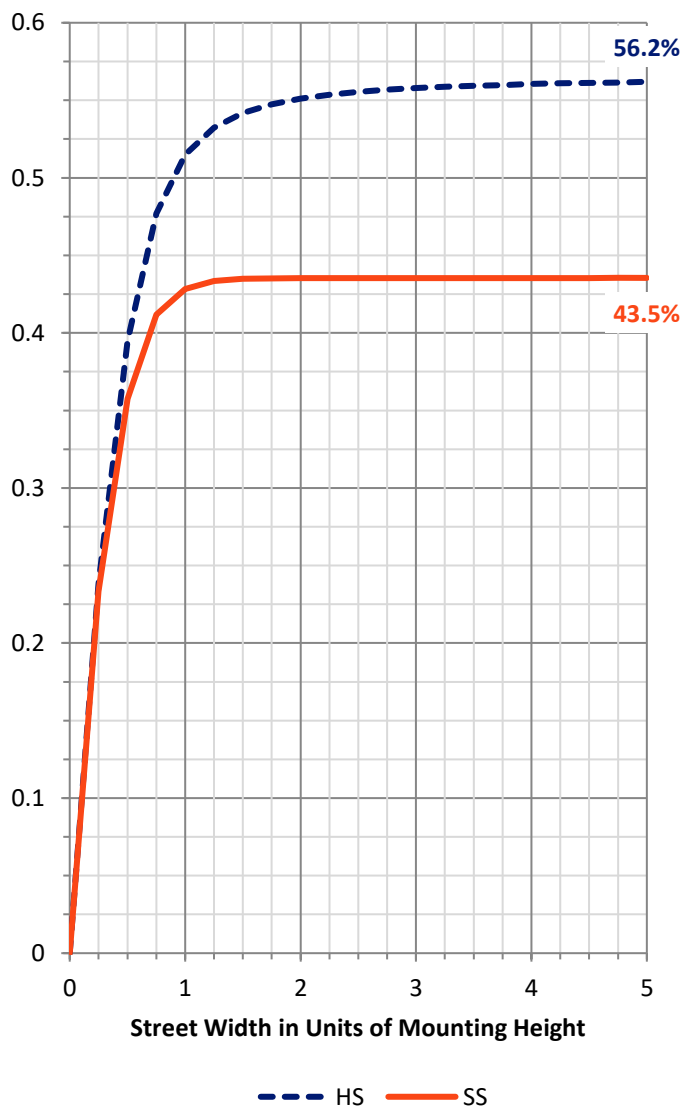
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23339.4	0.0	23339.4
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	17791.7	0.0	17791.7
	% Fixture	43.3	0.0	43.3
Total	Lumens	41131.1	0.0	41131.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4462.3	10.8
10°-20°	10637.0	25.9
20°-30°	10833.6	26.3
30°-40°	8078.6	19.6
40°-50°	4220.5	10.3
50°-60°	1775.1	4.3
60°-70°	725.0	1.8
70°-80°	305.1	0.7
80°-90°	94.0	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°	41131.1	100.0
0°-180°	41131.1	100.0



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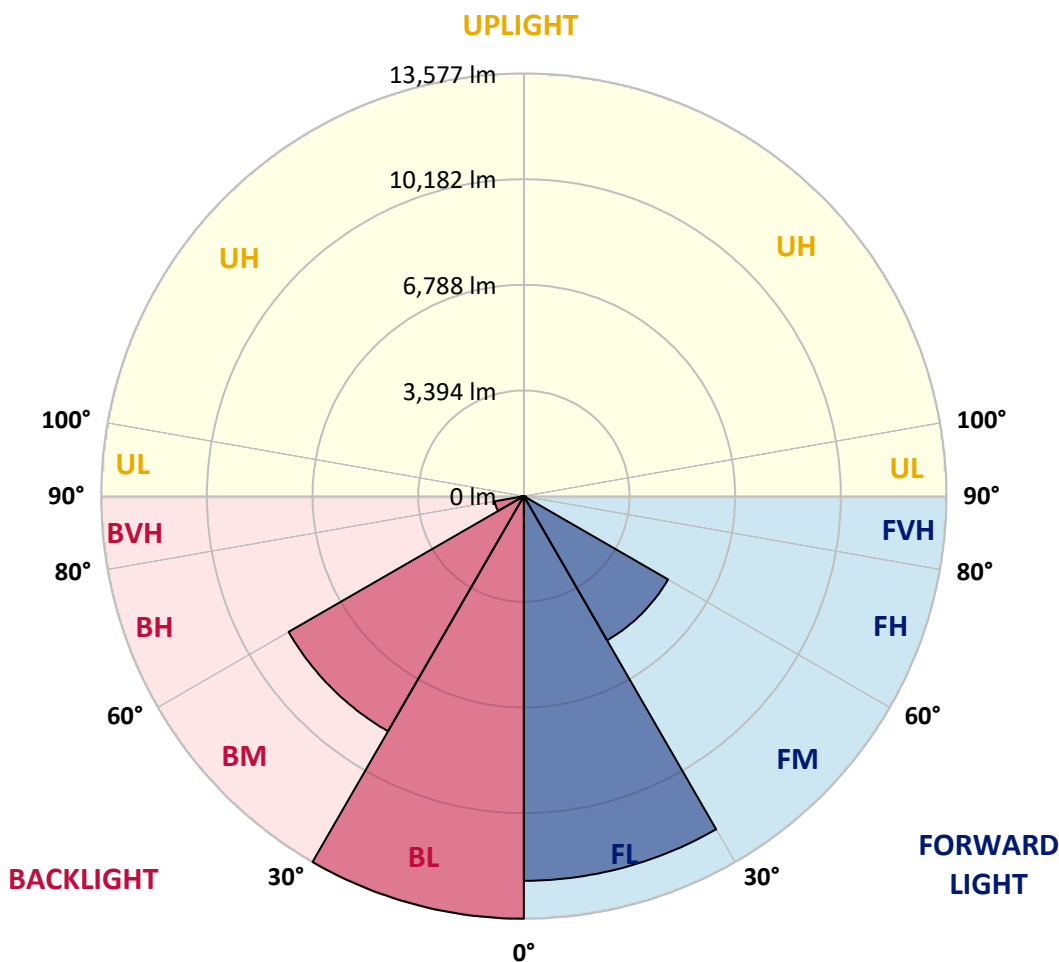
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12356.3	30.0			
FM (30°-60°)	5349.3	13.0			
FH (60°-80°)	77.4	0.2			G0/660
FVH (80°-90°)	8.7	0.0			G0/10
BL (0°-30°)	13576.6	33.0	B5		
BM (30°-60°)	8724.9	21.2	B5		
BH (60°-80°)	952.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	85.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	49141.7	49141.7	49141.7	49141.7	49141.7	49141.7	49141.7	49141.7	49141.7	49141.7
2.5°	49147.0	48946.2	48660.9	48634.5	48782.4	49104.7	48898.7	48909.2	48782.4	48999.1
5°	48375.6	48185.4	47989.9	47731.0	47947.7	48085.0	47979.4	47863.1	47699.3	47910.7
7.5°	46917.4	46811.7	46521.1	46404.9	46537.0	46690.2	46463.0	46431.3	46204.1	46478.8
10°	44687.7	44645.5	44360.2	44291.5	44407.7	44640.2	44539.8	44518.7	44376.0	44349.6
12.5°	42373.6	42209.8	41855.8	41834.7	42009.0	42357.7	42088.3	41829.4	41908.6	41977.3
15°	36413.8	36239.4	37116.5	38495.5	39219.3	39192.9	39272.2	38960.4	38865.3	38897.0
17.5°	28948.2	28652.4	28969.4	31103.9	34543.4	36540.6	35991.1	35320.1	34960.8	34723.1
20°	24985.6	25001.5	24943.3	25492.8	27637.9	32192.3	32060.2	30765.7	30295.5	30100.0
22.5°	22576.3	22486.5	22359.7	22534.1	23110.0	25783.4	27574.5	26385.7	26222.0	26005.3
25°	20214.6	20214.6	20061.4	20235.8	20399.5	20436.5	22232.9	22719.0	22402.0	22402.0
27.5°	18169.9	18064.2	17995.6	18074.8	17858.2	16817.3	17044.5	19533.1	19316.4	19184.3
30°	16141.1	16109.4	15993.1	16098.8	15295.7	14122.8	13647.2	16484.5	16711.7	16664.1
32.5°	13325.0	13451.8	13969.5	14133.3	12759.6	11813.9	11359.5	13684.2	14593.0	14556.0
35°	9055.9	9161.6	9753.3	11708.2	10577.5	9901.3	9769.2	10884.0	12379.2	12521.9
37.5°	7212.0	7196.1	7365.2	7713.9	8501.1	8337.3	8300.4	8591.0	10096.7	10160.1
40°	5943.9	5922.8	5917.5	5632.2	5436.7	6931.9	6831.5	6657.2	7962.2	8089.0
42.5°	4792.1	4813.3	4829.1	4205.7	3920.3	5346.9	5288.8	5109.1	6245.1	6393.0
45°	3761.8	3756.6	3788.3	3133.1	3053.9	3418.4	3952.0	3809.4	4712.9	4871.4
47.5°	1949.6	2018.3	2446.3	2425.1	2462.1	2425.1	2990.5	2953.5	3545.2	3798.8
50°	1310.3	1331.4	1368.4	1373.7	1939.0	1785.8	2028.9	2298.3	2483.2	2874.2
52.5°	1014.4	1030.3	935.2	877.1	1188.8	1320.9	1331.4	1590.3	1733.0	2129.2
55°	565.3	634.0	681.6	686.9	655.2	977.4	972.2	1178.2	1289.2	1553.3
57.5°	74.0	89.8	137.4	443.8	438.5	544.2	681.6	855.9	919.3	1135.9
60°	5.3	10.6	15.9	68.7	290.6	317.0	464.9	533.6	639.3	797.8
62.5°	0.0	0.0	5.3	15.9	58.1	184.9	243.0	280.0	375.1	523.1
65°	0.0	0.0	5.3	10.6	21.1	68.7	95.1	153.2	221.9	322.3
67.5°	0.0	0.0	5.3	10.6	15.9	26.4	42.3	68.7	116.2	195.5
70°	0.0	0.0	5.3	10.6	15.9	21.1	31.7	42.3	63.4	105.7
72.5°	0.0	0.0	5.3	5.3	10.6	26.4	26.4	31.7	42.3	58.1
75°	0.0	0.0	5.3	10.6	15.9	26.4	26.4	26.4	31.7	37.0
77.5°	0.0	0.0	5.3	10.6	15.9	26.4	21.1	26.4	26.4	26.4
80°	0.0	0.0	5.3	10.6	15.9	26.4	31.7	26.4	21.1	21.1
82.5°	0.0	0.0	5.3	15.9	15.9	37.0	37.0	37.0	15.9	15.9
85°	0.0	0.0	10.6	15.9	26.4	42.3	42.3	31.7	15.9	10.6
87.5°	0.0	0.0	5.3	10.6	10.6	21.1	31.7	26.4	10.6	5.3
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°
49141.7	0°	49141.7	49141.7	49141.7	49141.7	49141.7	49141.7	49141.7	49141.7	49141.7
48682.1	2.5°	49073.0	48940.9	49189.3	49221.0	49115.3	48983.2	48676.8	48650.4	48116.7
47604.2	5°	48143.1	47926.5	48085.0	48190.7	48153.7	48011.1	47884.3	47768.0	47287.2
45855.4	7.5°	46410.2	46330.9	46404.9	46484.1	46637.3	46484.1	46431.3	46309.8	45834.3
44133.0	10°	44487.0	44339.0	44619.1	44582.1	44539.8	44497.5	44275.6	44296.8	43736.7
41787.1	12.5°	42125.2	41876.9	42146.4	42178.1	42146.4	41998.4	41750.1	41855.8	41343.3
38617.0	15°	38949.9	38923.5	39118.9	39245.7	39335.6	39177.1	39092.5	39145.4	38838.9
34538.2	17.5°	35050.7	35394.1	36033.4	36250.0	36255.3	36419.1	36371.5	36308.1	36080.9
30020.8	20°	30464.6	31125.0	32107.8	33116.9	33407.5	33270.1	33206.7	33323.0	32984.8
25778.1	22.5°	26232.5	26797.9	27939.1	29413.2	30263.8	30348.4	30332.5	30232.1	30100.0
22380.9	25°	22639.7	23141.7	24235.4	25582.6	27215.2	27458.3	27468.9	27437.2	27320.9
19300.6	27.5°	19607.0	20214.6	20816.9	22021.6	23759.8	24763.7	24636.9	24599.9	24557.7
16701.1	30°	16859.6	17625.7	18191.0	18941.3	20499.9	21857.8	21989.9	21926.5	21826.1
14550.7	32.5°	14682.8	15137.2	15855.7	16363.0	17483.1	19020.6	19527.8	19480.2	19390.4
12611.7	35°	12791.3	12971.0	13536.3	14101.6	14846.6	16336.5	17086.8	16981.1	16965.3
10276.4	37.5°	10535.3	11137.6	11449.3	12019.9	12543.0	13700.1	14735.6	14688.1	14693.4
8263.4	40°	8506.4	8855.1	9473.3	9954.1	10434.9	11280.2	12432.0	12463.7	12453.2
6398.3	42.5°	6530.4	6868.5	7518.4	8041.5	8469.4	8992.5	10091.5	10128.4	10176.0
4982.3	45°	5098.6	5315.2	5790.7	6334.9	6789.3	7106.3	7941.1	8178.8	8184.1
3862.2	47.5°	3957.3	4205.7	4543.8	5066.9	5510.7	5737.9	6345.5	6667.8	6651.9
2964.0	50°	3106.7	3333.9	3608.6	4020.7	4501.5	4681.2	5130.3	5447.3	5431.4
2234.9	52.5°	2377.6	2668.2	2911.2	3228.2	3698.4	3851.7	4174.0	4538.5	4485.7
1637.9	55°	1801.7	2097.5	2324.7	2588.9	3016.9	3212.4	3434.3	3724.9	3735.4
1268.0	57.5°	1357.9	1664.3	1870.4	2139.8	2462.1	2678.7	2847.8	3159.5	3154.2
866.5	60°	972.2	1236.3	1484.7	1764.7	2013.0	2261.3	2377.6	2673.4	2684.0
612.9	62.5°	702.7	951.0	1188.8	1431.8	1653.7	1896.8	2002.4	2234.9	2266.6
401.5	65°	491.4	665.7	940.5	1125.4	1373.7	1553.3	1690.7	1891.5	1928.5
237.8	67.5°	317.0	480.8	745.0	908.8	1135.9	1289.2	1431.8	1590.3	1637.9
153.2	70°	190.2	364.6	554.8	729.1	935.2	1072.5	1209.9	1347.3	1373.7
74.0	72.5°	121.5	253.6	401.5	591.8	750.3	898.2	1019.7	1120.1	1040.8
47.6	75°	68.7	174.4	317.0	464.9	607.6	750.3	850.6	903.5	723.8
31.7	77.5°	42.3	126.8	258.9	375.1	470.2	602.3	665.7	697.4	517.8
21.1	80°	26.4	95.1	216.6	306.4	306.4	443.8	517.8	544.2	375.1
15.9	82.5°	21.1	68.7	169.1	232.5	206.1	332.9	406.8	412.1	264.2
10.6	85°	15.9	52.8	105.7	153.2	142.7	232.5	237.8	264.2	174.4
10.6	87.5°	10.6	31.7	63.4	89.8	79.3	111.0	126.8	142.7	95.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
49141.7
47699.3
46901.5
45733.9
43546.5
41195.4
38469.1
35742.8
32741.8
29846.4
26929.9
24309.3
21699.3
19152.6
16790.9
14524.3
12268.3
10017.5
8046.8
6593.8
5431.4
4491.0
3735.4
3143.7
2657.6
2256.0
1917.9
1632.6
1352.6
966.9
686.9
486.1
348.7
243.0
158.5
84.5
0.0

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