

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: P637831

Luminaire Tested: **IFLD-L-SA7B-727-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637831
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-727-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25112.9 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

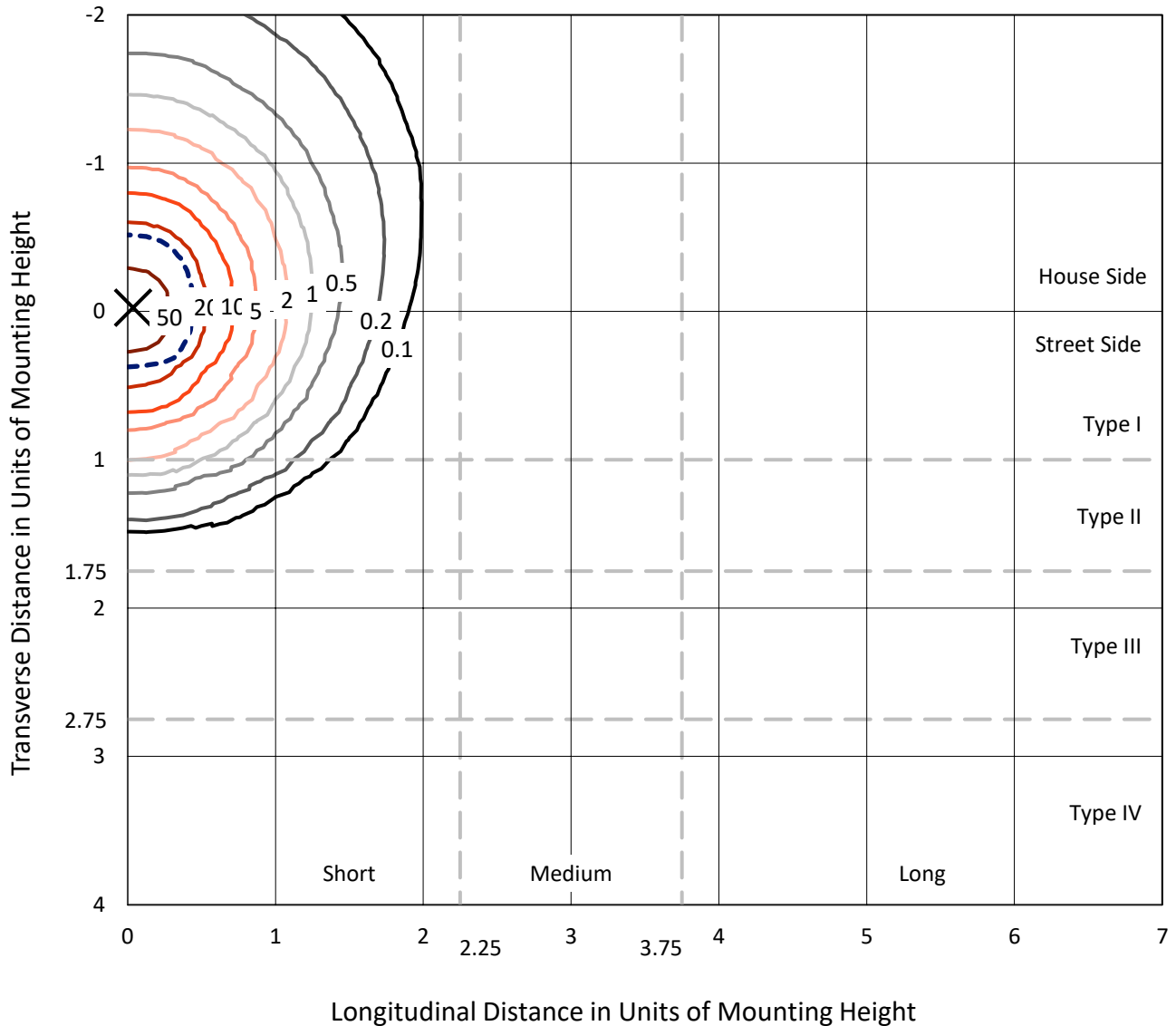
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

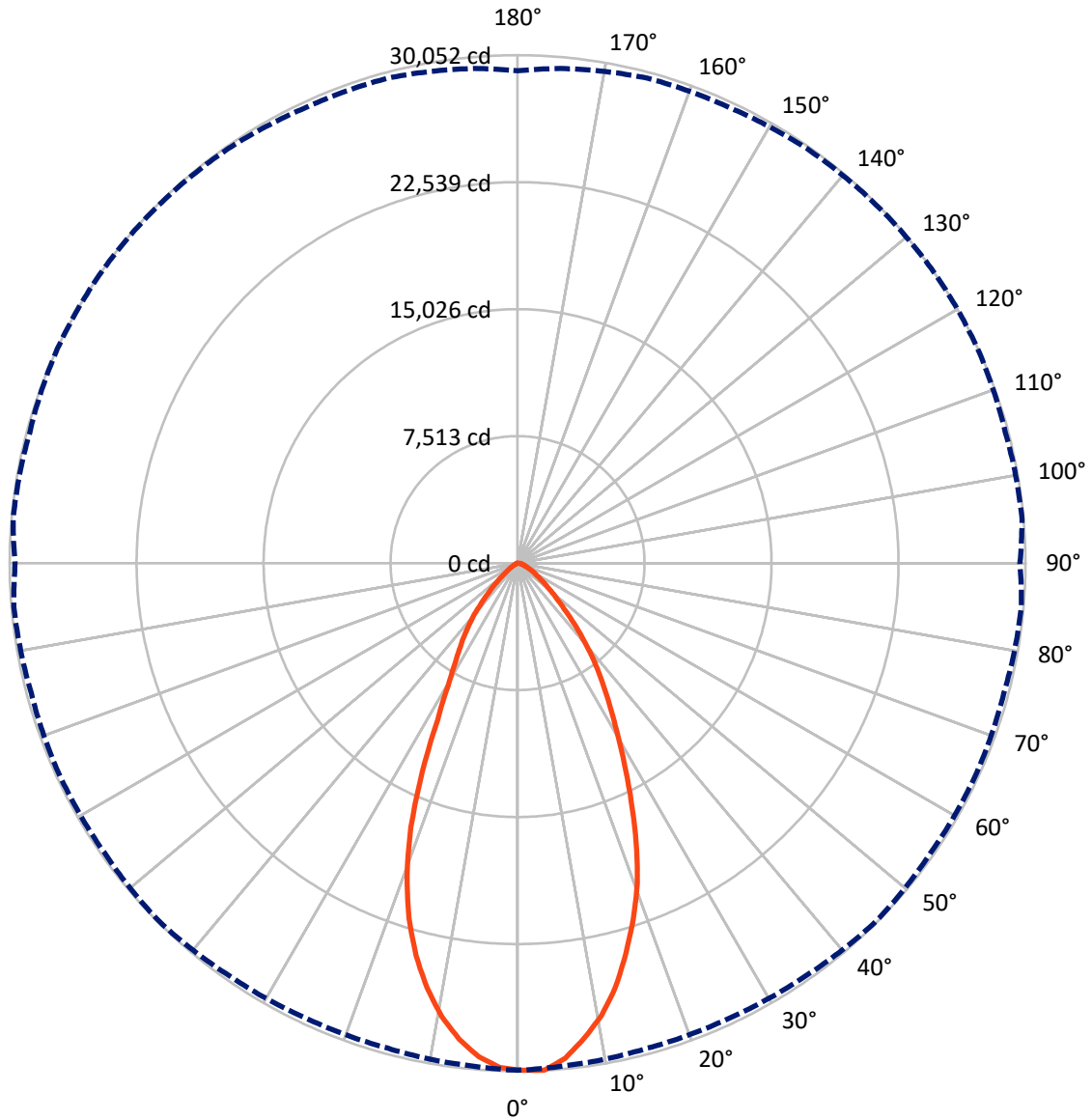
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 75 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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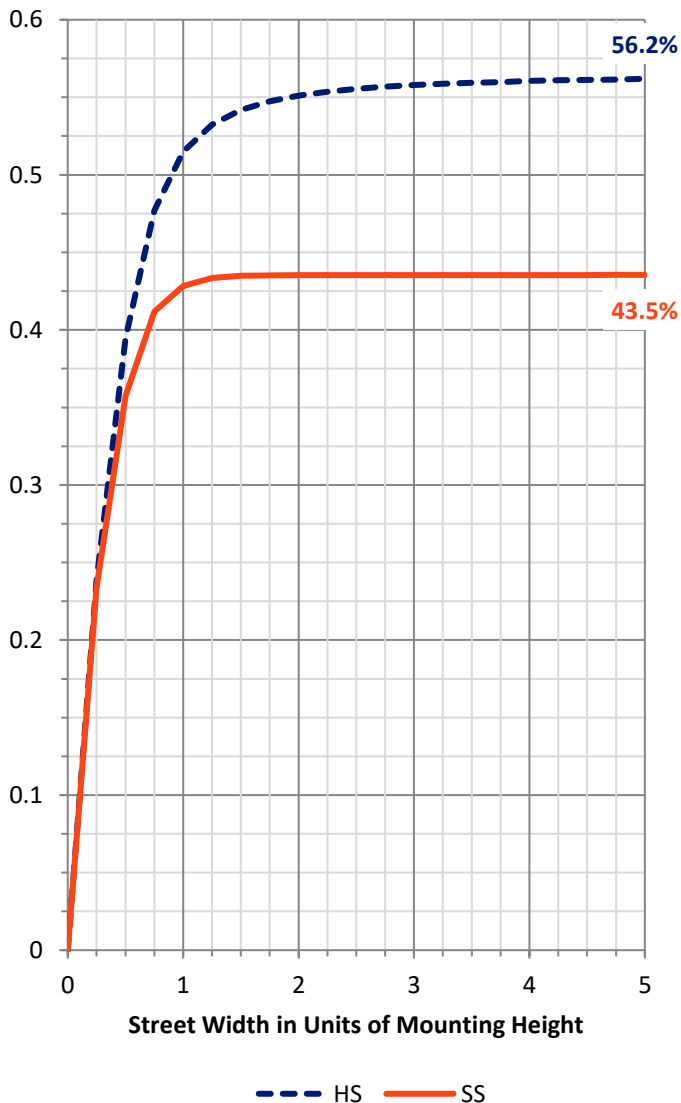
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14250.0	0.0	14250.0
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	10862.8	0.0	10862.8
	% Fixture	43.3	0.0	43.3
Total	Lumens	25112.9	0.0	25112.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2724.5	10.8
10°-20°	6494.5	25.9
20°-30°	6614.5	26.3
30°-40°	4932.4	19.6
40°-50°	2576.8	10.3
50°-60°	1083.8	4.3
60°-70°	442.6	1.8
70°-80°	186.3	0.7
80°-90°	57.4	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°	25112.9	100.0
0°-180°	25112.9	100.0



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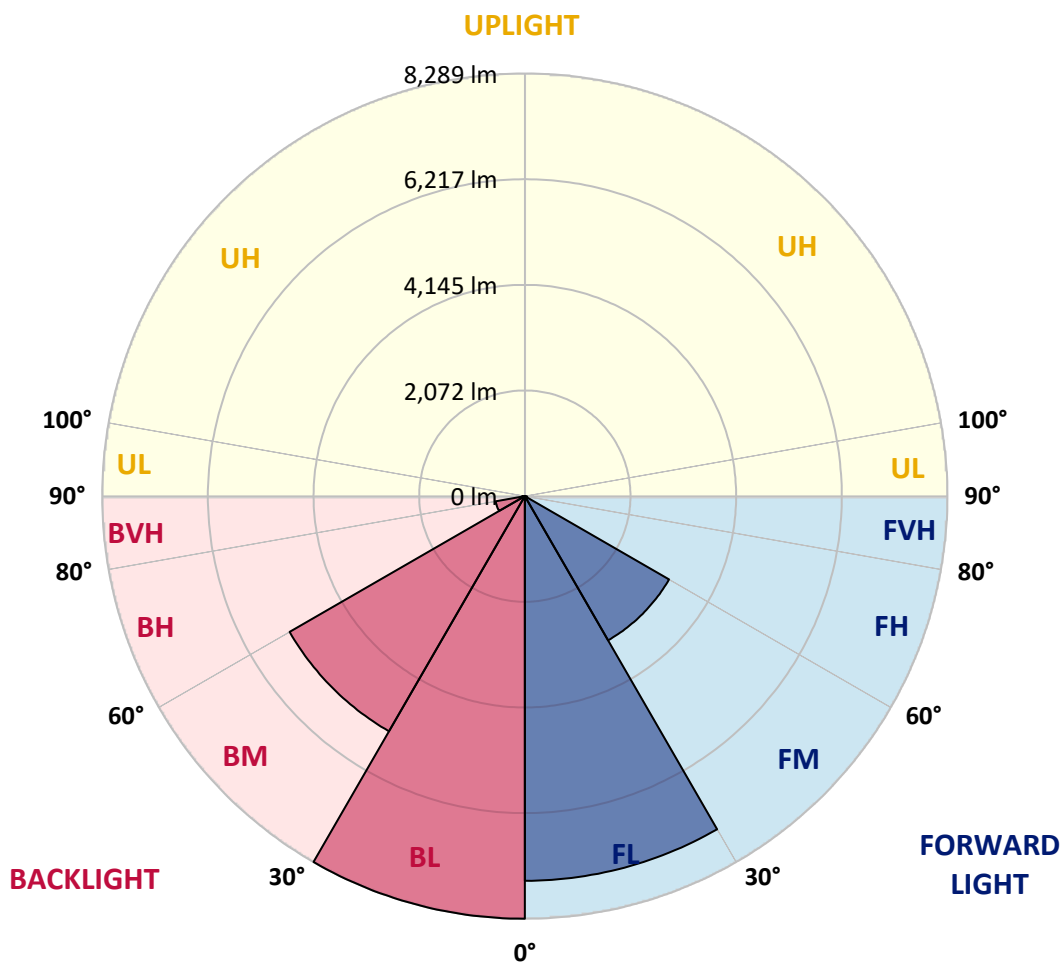
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7544.2	30.0			
FM (30°-60°)	3266.0	13.0			
FH (60°-80°)	47.3	0.2			G0/660
FVH (80°-90°)	5.3	0.0			G0/10
BL (0°-30°)	8289.3	33.0	B5		
BM (30°-60°)	5327.1	21.2	B4/8500		
BH (60°-80°)	581.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	52.1	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°	30003.8	30003.8	30003.8	30003.8	30003.8	30003.8	30003.8	30003.8	30003.8	30003.8
2.5°	30007.0	29884.4	29710.2	29694.1	29784.4	29981.2	29855.4	29861.9	29784.4	29916.7
5°	29536.0	29419.9	29300.6	29142.5	29274.8	29358.6	29294.1	29223.1	29123.1	29252.2
7.5°	28645.7	28581.2	28403.8	28332.8	28413.4	28507.0	28368.3	28348.9	28210.2	28378.0
10°	27284.4	27258.6	27084.4	27042.5	27113.4	27255.4	27194.1	27181.2	27094.1	27077.9
12.5°	25871.5	25771.5	25555.3	25542.4	25648.9	25861.8	25697.3	25539.2	25587.6	25629.5
15°	22232.7	22126.2	22661.7	23503.7	23945.6	23929.5	23977.9	23787.6	23729.5	23748.8
17.5°	17674.5	17493.9	17687.4	18990.7	21090.7	22310.1	21974.6	21564.9	21345.6	21200.4
20°	15255.1	15264.8	15229.3	15564.8	16874.5	19655.2	19574.6	18784.2	18497.1	18377.8
22.5°	13784.1	13729.3	13651.9	13758.3	14109.9	15742.2	16835.8	16110.0	16010.0	15877.7
25°	12342.2	12342.2	12248.6	12355.1	12455.1	12477.7	13574.5	13871.2	13677.7	13677.7
27.5°	11093.8	11029.2	10987.3	11035.7	10903.4	10267.9	10406.7	11926.0	11793.8	11713.1
30°	9855.0	9835.7	9764.7	9829.2	9338.9	8622.7	8332.4	10064.7	10203.4	10174.4
32.5°	8135.6	8213.1	8529.2	8629.2	7790.5	7213.0	6935.6	8355.0	8909.8	8887.3
35°	5529.1	5593.7	5955.0	7148.5	6458.2	6045.3	5964.6	6645.3	7558.2	7645.3
37.5°	4403.3	4393.6	4496.9	4709.8	5190.4	5090.4	5067.8	5245.3	6164.6	6203.3
40°	3629.1	3616.2	3613.0	3438.8	3319.4	4232.3	4171.0	4064.6	4861.4	4938.8
42.5°	2925.9	2938.8	2948.4	2567.8	2393.6	3264.6	3229.1	3119.4	3813.0	3903.3
45°	2296.8	2293.6	2312.9	1912.9	1864.6	2087.1	2412.9	2325.9	2877.5	2974.3
47.5°	1190.3	1232.3	1493.6	1480.7	1503.3	1480.7	1825.8	1803.3	2164.6	2319.4
50°	800.0	812.9	835.5	838.7	1183.9	1090.3	1238.7	1403.3	1516.2	1754.9
52.5°	619.4	629.0	571.0	535.5	725.8	806.5	812.9	971.0	1058.1	1300.0
55°	345.2	387.1	416.1	419.4	400.0	596.8	593.6	719.4	787.1	948.4
57.5°	45.2	54.8	83.9	271.0	267.7	332.3	416.1	522.6	561.3	693.6
60°	3.2	6.5	9.7	41.9	177.4	193.6	283.9	325.8	390.3	487.1
62.5°	0.0	0.0	3.2	9.7	35.5	112.9	148.4	171.0	229.0	319.4
65°	0.0	0.0	3.2	6.5	12.9	41.9	58.1	93.6	135.5	196.8
67.5°	0.0	0.0	3.2	6.5	9.7	16.1	25.8	41.9	71.0	119.4
70°	0.0	0.0	3.2	6.5	9.7	12.9	19.4	25.8	38.7	64.5
72.5°	0.0	0.0	3.2	3.2	6.5	16.1	16.1	19.4	25.8	35.5
75°	0.0	0.0	3.2	6.5	9.7	16.1	16.1	16.1	19.4	22.6
77.5°	0.0	0.0	3.2	6.5	9.7	16.1	12.9	16.1	16.1	16.1
80°	0.0	0.0	3.2	6.5	9.7	16.1	19.4	16.1	12.9	12.9
82.5°	0.0	0.0	3.2	9.7	9.7	22.6	22.6	22.6	9.7	9.7
85°	0.0	0.0	6.5	9.7	16.1	25.8	25.8	19.4	9.7	6.5
87.5°	0.0	0.0	3.2	6.5	6.5	12.9	19.4	16.1	6.5	3.2
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°
30003.8	0°	30003.8	30003.8	30003.8	30003.8	30003.8	30003.8	30003.8	30003.8	30003.8
29723.1	2.5°	29961.9	29881.2	30032.8	30052.2	29987.7	29907.0	29719.9	29703.8	29378.0
29065.1	5°	29394.1	29261.9	29358.6	29423.1	29400.6	29313.5	29236.0	29165.1	28871.5
27997.3	7.5°	28336.0	28287.6	28332.8	28381.2	28474.7	28381.2	28348.9	28274.7	27984.4
26945.7	10°	27161.8	27071.5	27242.5	27219.9	27194.1	27168.3	27032.8	27045.7	26703.7
25513.4	12.5°	25719.8	25568.2	25732.8	25752.1	25732.8	25642.4	25490.8	25555.3	25242.4
23577.9	15°	23781.1	23765.0	23884.3	23961.7	24016.6	23919.8	23868.2	23900.5	23713.4
21087.5	17.5°	21400.4	21610.1	22000.4	22132.7	22135.9	22235.9	22206.9	22168.2	22029.5
18329.4	20°	18600.4	19003.6	19603.6	20219.7	20397.2	20313.3	20274.6	20345.6	20139.1
15739.0	22.5°	16016.4	16361.6	17058.4	17958.4	18477.8	18529.4	18519.7	18458.4	18377.8
13664.8	25°	13822.8	14129.3	14797.1	15619.7	16616.4	16764.8	16771.3	16751.9	16681.0
11784.1	27.5°	11971.2	12342.2	12709.9	13445.4	14506.7	15119.6	15042.2	15019.6	14993.8
10197.0	30°	10293.7	10761.5	11106.7	11564.7	12516.4	13345.4	13426.1	13387.4	13326.1
8884.0	32.5°	8964.7	9242.1	9680.8	9990.5	10674.4	11613.1	11922.8	11893.8	11838.9
7700.1	35°	7809.8	7919.5	8264.7	8609.8	9064.7	9974.4	10432.5	10367.9	10358.3
6274.3	37.5°	6432.4	6800.1	6990.5	7338.9	7658.2	8364.7	8996.9	8967.9	8971.1
5045.3	40°	5193.6	5406.6	5784.0	6077.5	6371.1	6887.2	7590.5	7609.8	7603.4
3906.5	42.5°	3987.2	4193.6	4590.4	4909.8	5171.1	5490.4	6161.4	6184.0	6213.0
3042.0	45°	3113.0	3245.2	3535.6	3867.8	4145.2	4338.8	4848.5	4993.6	4996.9
2358.1	47.5°	2416.2	2567.8	2774.2	3093.6	3364.6	3503.3	3874.3	4071.0	4061.4
1809.7	50°	1896.8	2035.5	2203.3	2454.9	2748.4	2858.1	3132.3	3325.9	3316.2
1364.5	52.5°	1451.6	1629.1	1777.5	1971.0	2258.1	2351.7	2548.4	2771.0	2738.8
1000.0	55°	1100.0	1280.7	1419.4	1580.7	1842.0	1961.3	2096.8	2274.2	2280.7
774.2	57.5°	829.0	1016.1	1142.0	1306.5	1503.3	1635.5	1738.7	1929.1	1925.8
529.0	60°	593.6	754.9	906.5	1077.4	1229.1	1380.7	1451.6	1632.3	1638.7
374.2	62.5°	429.0	580.7	725.8	874.2	1009.7	1158.1	1222.6	1364.5	1383.9
245.2	65°	300.0	406.5	574.2	687.1	838.7	948.4	1032.3	1154.9	1177.4
145.2	67.5°	193.6	293.6	454.8	554.8	693.6	787.1	874.2	971.0	1000.0
93.6	70°	116.1	222.6	338.7	445.2	571.0	654.9	738.7	822.6	838.7
45.2	72.5°	74.2	154.8	245.2	361.3	458.1	548.4	622.6	683.9	635.5
29.0	75°	41.9	106.5	193.6	283.9	371.0	458.1	519.4	551.6	441.9
19.4	77.5°	25.8	77.4	158.1	229.0	287.1	367.7	406.5	425.8	316.1
12.9	80°	16.1	58.1	132.3	187.1	187.1	271.0	316.1	332.3	229.0
9.7	82.5°	12.9	41.9	103.2	141.9	125.8	203.2	248.4	251.6	161.3
6.5	85°	9.7	32.3	64.5	93.6	87.1	141.9	145.2	161.3	106.5
6.5	87.5°	6.5	19.4	38.7	54.8	48.4	67.7	77.4	87.1	58.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
30003.8
29123.1
28636.0
27923.1
26587.6
25152.1
23487.5
21823.0
19990.7
18222.9
16442.3
14842.2
13248.6
11693.8
10251.8
8867.9
7490.5
6116.2
4913.0
4025.9
3316.2
2742.0
2280.7
1919.4
1622.6
1377.4
1171.0
996.8
825.8
590.3
419.4
296.8
212.9
148.4
96.8
51.6
0.0

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