

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: P638221

Luminaire Tested: **IFLD-S-SA3A-760-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638221
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-760-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10825.2 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

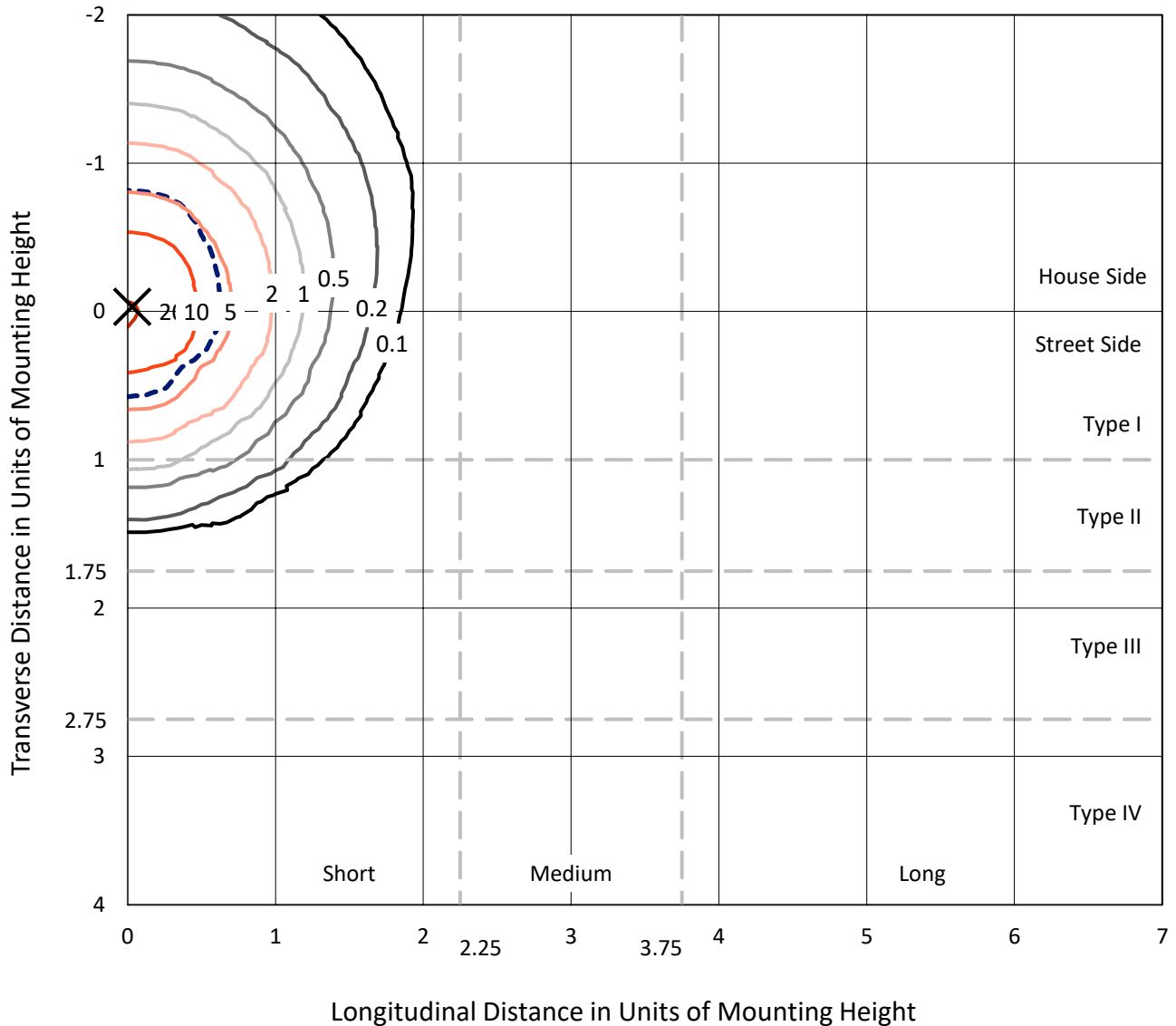
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

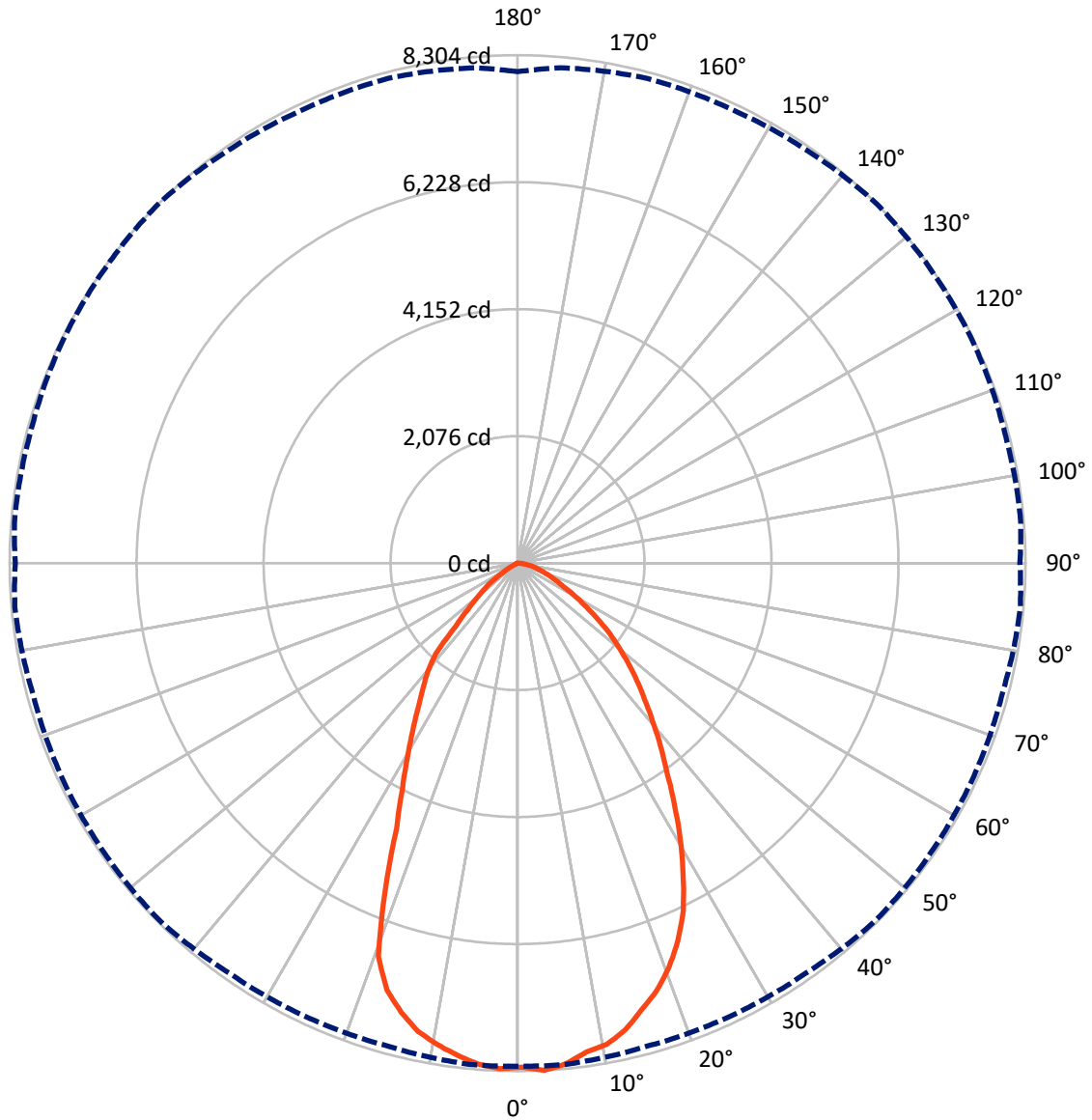
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 20.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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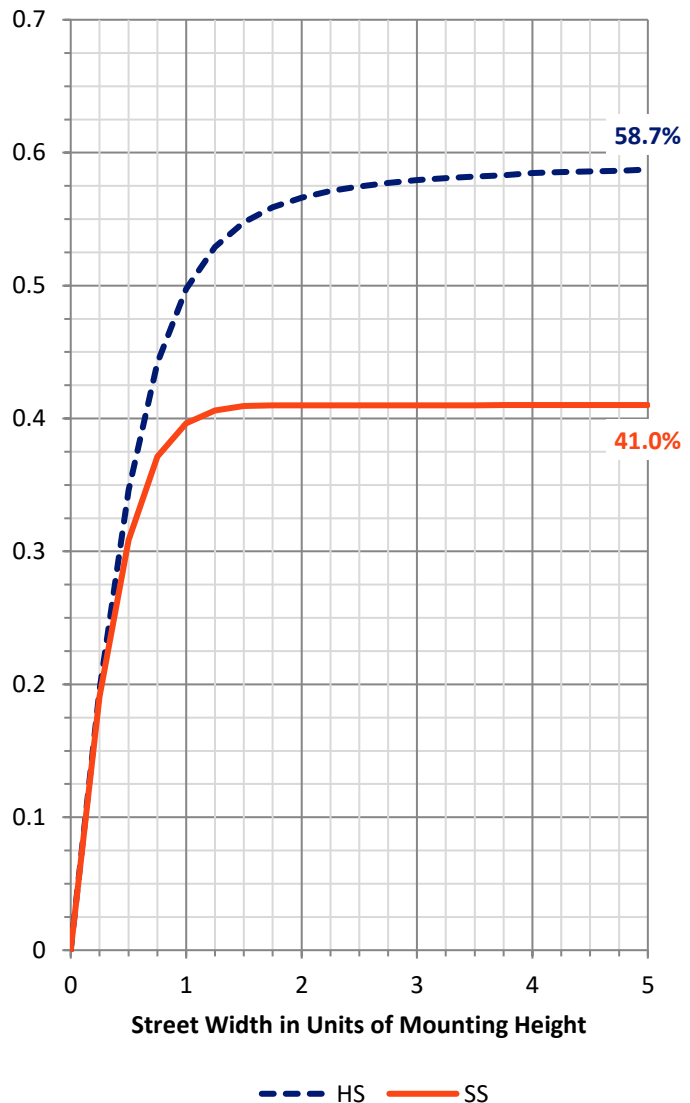
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6411.2	0.0	6411.2
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	4413.9	0.0	4413.9
	% Fixture	40.8	0.0	40.8
Total	Lumens	10825.2	0.0	10825.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	772.6	7.1
10°-20°	2071.7	19.1
20°-30°	2526.6	23.3
30°-40°	2306.8	21.3
40°-50°	1667.0	15.4
50°-60°	910.2	8.4
60°-70°	376.3	3.5
70°-80°	152.4	1.4
80°-90°	41.5	0.4
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°	10825.2	100.0
0°-180°	10825.2	100.0



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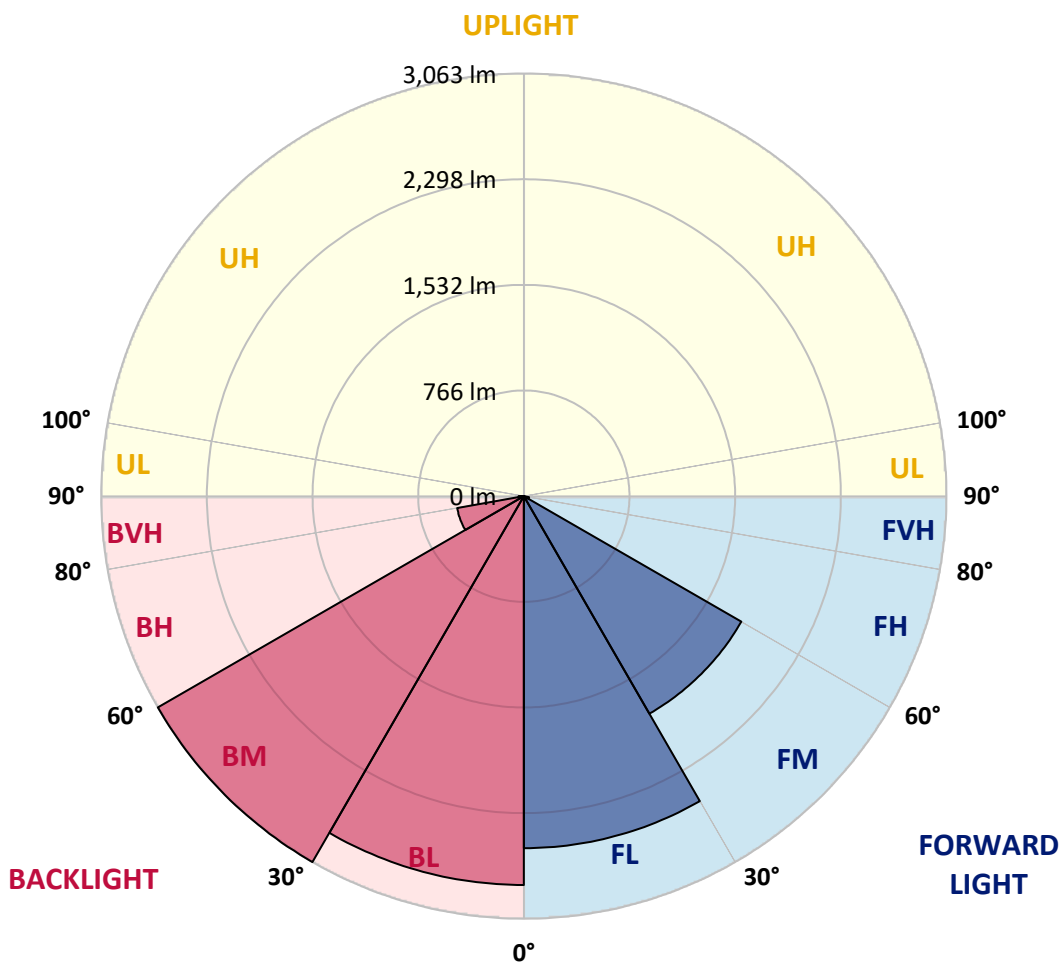
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2551.9	23.6			
FM	(30°-60°)	1820.6	16.8			
FH	(60°-80°)	38.1	0.4			G0/660
FVH	(80°-90°)	3.3	0.0			G0/10
BL	(0°-30°)	2819.0	26.0	B4/5000		
BM	(30°-60°)	3063.4	28.3	B3/5000		
BH	(60°-80°)	490.6	4.5	B1/500		G1/500
BVH	(80°-90°)	38.1	0.4			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°	8237.9	8237.9	8237.9	8237.9	8237.9	8237.9	8237.9	8237.9	8237.9	8237.9
2.5°	8222.7	8233.4	8175.4	8181.5	8192.2	8269.9	8250.1	8231.8	8205.9	8250.1
5°	8212.0	8218.1	8157.1	8135.8	8144.9	8215.1	8151.0	8151.0	8144.9	8137.3
7.5°	8129.7	8132.8	8085.5	8047.4	8071.8	8103.8	8056.5	8079.4	8045.9	8071.8
10°	8006.2	7986.4	7930.0	7919.3	7946.8	7977.3	7945.2	7966.6	7936.1	7955.9
12.5°	7824.8	7794.3	7748.6	7734.9	7782.1	7823.3	7797.4	7785.2	7745.5	7794.3
15°	7125.1	7102.2	7205.9	7387.3	7550.4	7585.5	7558.0	7570.2	7487.9	7501.6
17.5°	5864.4	5821.7	5933.0	6362.9	6975.7	7298.9	7274.5	7195.2	7073.3	7100.7
20°	5329.4	5317.2	5305.0	5407.1	5835.5	6815.7	6849.2	6648.0	6474.2	6436.1
22.5°	5027.5	5022.9	5010.7	5033.6	5146.4	5776.0	6160.2	5974.2	5858.3	5847.7
25°	4751.6	4744.0	4707.4	4736.4	4736.4	4772.9	5265.3	5378.1	5276.0	5263.8
27.5°	4471.1	4457.4	4451.3	4465.0	4394.9	4147.9	4272.9	4823.2	4769.9	4772.9
30°	4167.7	4163.2	4146.4	4175.4	3958.9	3652.5	3573.2	4320.2	4330.9	4327.8
32.5°	3716.5	3736.3	3812.6	3844.6	3487.9	3234.8	3102.2	3737.9	3955.9	3951.3
35°	2699.7	2699.7	2948.2	3410.1	3056.5	2865.9	2794.3	3169.3	3585.4	3600.7
37.5°	2219.5	2227.2	2276.0	2486.3	2637.2	2570.2	2548.8	2667.7	3109.8	3134.2
40°	1997.0	1997.0	1997.0	1910.1	1905.5	2315.6	2303.4	2265.3	2686.0	2739.4
42.5°	1794.2	1798.8	1801.9	1582.3	1460.4	2001.6	1974.1	1916.2	2306.4	2368.9
45°	1585.4	1593.0	1602.2	1323.2	1269.8	1440.6	1670.8	1606.7	1931.4	2012.2
47.5°	968.0	980.2	1187.5	1122.0	1128.1	1111.3	1362.8	1352.2	1583.9	1698.2
50°	654.0	658.5	678.4	711.9	968.0	873.5	965.0	1118.9	1202.8	1376.5
52.5°	548.8	556.4	507.6	461.9	635.7	682.9	673.8	830.8	864.3	1079.3
55°	385.7	410.1	387.2	382.6	361.3	530.5	510.7	638.7	660.1	820.1
57.5°	39.6	45.7	79.3	285.1	236.3	300.3	364.3	468.0	489.3	605.2
60°	3.0	3.0	7.6	39.6	172.3	179.9	251.5	288.1	329.3	422.3
62.5°	0.0	1.5	3.0	6.1	27.4	96.0	126.5	150.9	198.2	272.9
65°	0.0	0.0	1.5	4.6	6.1	36.6	48.8	79.3	108.2	169.2
67.5°	0.0	0.0	1.5	3.0	4.6	9.1	16.8	29.0	57.9	96.0
70°	0.0	0.0	1.5	3.0	4.6	7.6	12.2	18.3	25.9	51.8
72.5°	0.0	0.0	1.5	1.5	3.0	7.6	9.1	12.2	18.3	25.9
75°	0.0	0.0	1.5	1.5	4.6	9.1	7.6	9.1	12.2	16.8
77.5°	0.0	0.0	1.5	3.0	4.6	9.1	7.6	9.1	9.1	10.7
80°	0.0	0.0	1.5	3.0	6.1	10.7	9.1	9.1	7.6	7.6
82.5°	0.0	0.0	1.5	4.6	6.1	13.7	13.7	12.2	6.1	4.6
85°	0.0	0.0	3.0	6.1	9.1	15.2	15.2	12.2	4.6	3.0
87.5°	0.0	0.0	3.0	4.6	7.6	10.7	15.2	12.2	4.6	1.5
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°
8237.9	0°	8237.9	8237.9	8237.9	8237.9	8237.9	8237.9	8237.9	8237.9	8237.9
8212.0	2.5°	8253.2	8244.0	8274.5	8286.7	8303.5	8239.5	8199.8	8201.3	8128.2
8119.0	5°	8167.8	8169.3	8209.0	8205.9	8222.7	8187.6	8172.4	8146.5	8082.4
8001.7	7.5°	8059.6	8045.9	8084.0	8112.9	8070.2	8094.6	8059.6	8071.8	8033.7
7898.0	10°	7975.7	7943.7	7978.8	7998.6	8000.1	7975.7	7942.2	7910.2	7896.5
7736.4	12.5°	7789.8	7748.6	7808.0	7835.5	7830.9	7783.7	7745.5	7753.2	7709.0
7452.9	15°	7533.7	7535.2	7577.9	7603.8	7579.4	7568.7	7571.8	7553.5	7515.4
7061.1	17.5°	7141.9	7164.7	7277.6	7340.1	7353.8	7332.4	7321.8	7300.4	7262.3
6436.1	20°	6489.4	6626.6	6827.9	7021.5	7059.6	7053.5	7015.4	7006.2	6984.9
5817.2	22.5°	5916.3	6018.4	6251.6	6553.5	6708.9	6724.2	6678.5	6664.7	6641.9
5263.8	25°	5323.3	5433.0	5643.4	5971.1	6292.8	6358.3	6350.7	6309.6	6285.2
4772.9	27.5°	4823.2	4933.0	5123.6	5419.3	5763.8	5974.2	5994.0	5928.4	5926.9
4335.4	30°	4372.0	4522.9	4667.8	4908.6	5242.5	5558.0	5591.6	5545.8	5550.4
3934.5	32.5°	4018.4	4143.4	4266.8	4428.4	4705.9	5073.3	5204.4	5161.7	5144.9
3600.7	35°	3657.1	3742.4	3869.0	4016.8	4205.9	4570.2	4797.3	4765.3	4748.6
3149.4	37.5°	3245.5	3391.8	3483.3	3649.4	3797.3	4087.0	4407.1	4402.5	4367.4
2765.3	40°	2823.2	2977.2	3115.9	3283.6	3397.9	3628.1	3983.3	3981.8	3986.3
2367.4	42.5°	2440.6	2582.4	2750.0	2933.0	3042.7	3210.4	3591.5	3612.9	3638.8
2039.7	45°	2094.5	2222.6	2378.1	2600.7	2733.3	2829.3	3167.7	3265.3	3263.8
1747.0	47.5°	1783.6	1904.0	2035.1	2251.6	2420.8	2507.7	2788.2	2926.9	2917.7
1432.9	50°	1497.0	1603.7	1740.9	1897.9	2125.0	2201.3	2410.1	2593.0	2579.3
1141.8	52.5°	1204.3	1352.2	1468.0	1611.3	1850.6	1925.3	2086.9	2265.3	2254.6
856.7	55°	939.0	1082.3	1222.6	1346.1	1547.3	1658.6	1774.4	1957.3	1954.3
670.7	57.5°	710.4	867.4	1000.0	1117.4	1277.5	1414.7	1507.6	1673.8	1695.1
458.8	60°	525.9	646.4	789.6	920.7	1047.3	1189.0	1251.5	1414.7	1423.8
314.0	62.5°	358.2	490.9	631.1	750.0	844.5	990.9	1047.3	1181.4	1198.2
201.2	65°	248.5	333.8	493.9	579.3	695.1	820.1	876.5	983.2	1016.8
115.9	67.5°	164.6	237.8	385.7	463.4	577.8	663.1	734.8	821.7	858.2
73.2	70°	89.9	175.3	275.9	365.9	464.9	547.3	617.4	687.5	719.5
33.5	72.5°	61.0	117.4	192.1	289.6	375.0	455.8	518.3	570.1	571.7
19.8	75°	30.5	79.3	146.3	224.1	292.7	372.0	428.4	458.8	422.3
12.2	77.5°	18.3	57.9	118.9	179.9	237.8	300.3	332.3	349.1	289.6
9.1	80°	10.7	41.2	93.0	143.3	164.6	221.0	251.5	256.1	193.6
6.1	82.5°	7.6	30.5	73.2	105.2	100.6	155.5	189.0	182.9	123.5
4.6	85°	4.6	21.3	45.7	65.5	61.0	102.1	109.8	112.8	71.6
3.0	87.5°	3.0	12.2	24.4	35.1	29.0	44.2	44.2	53.4	35.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8237.9
8033.7
8067.2
7969.6
7835.5
7670.9
7477.3
7245.5
6936.1
6635.8
6259.2
5923.9
5527.5
5146.4
4725.7
4396.4
3986.3
3625.1
3266.8
2920.8
2591.5
2277.5
1961.9
1686.0
1437.5
1201.2
1009.2
853.7
707.3
557.9
394.8
279.0
181.4
114.3
65.5
30.5
0.0

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