

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: P637922

Luminaire Tested: **IFLD-L-SA8A-740-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637922  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-740-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (128) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28885.3 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

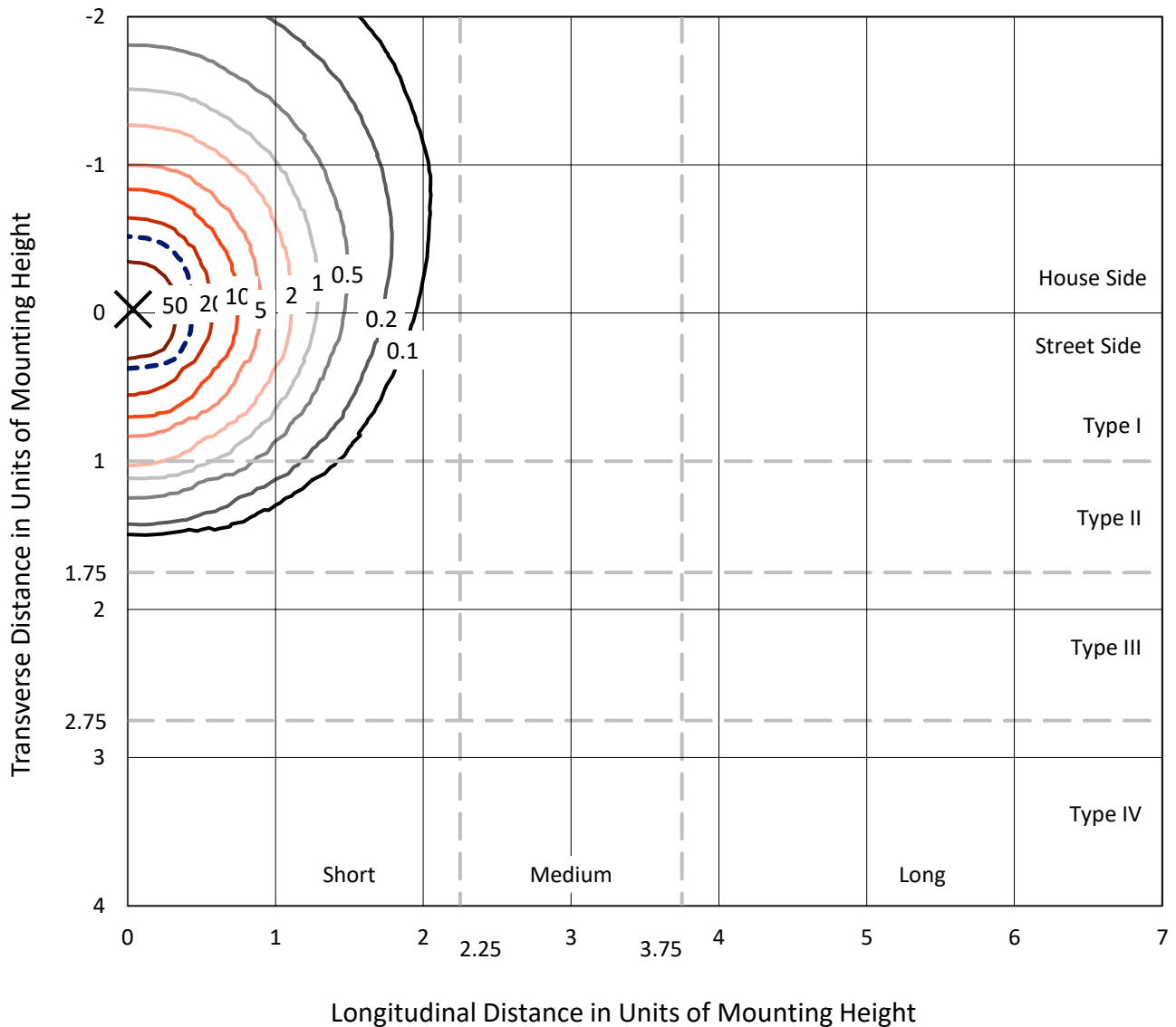
Input Watts (W): 247.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

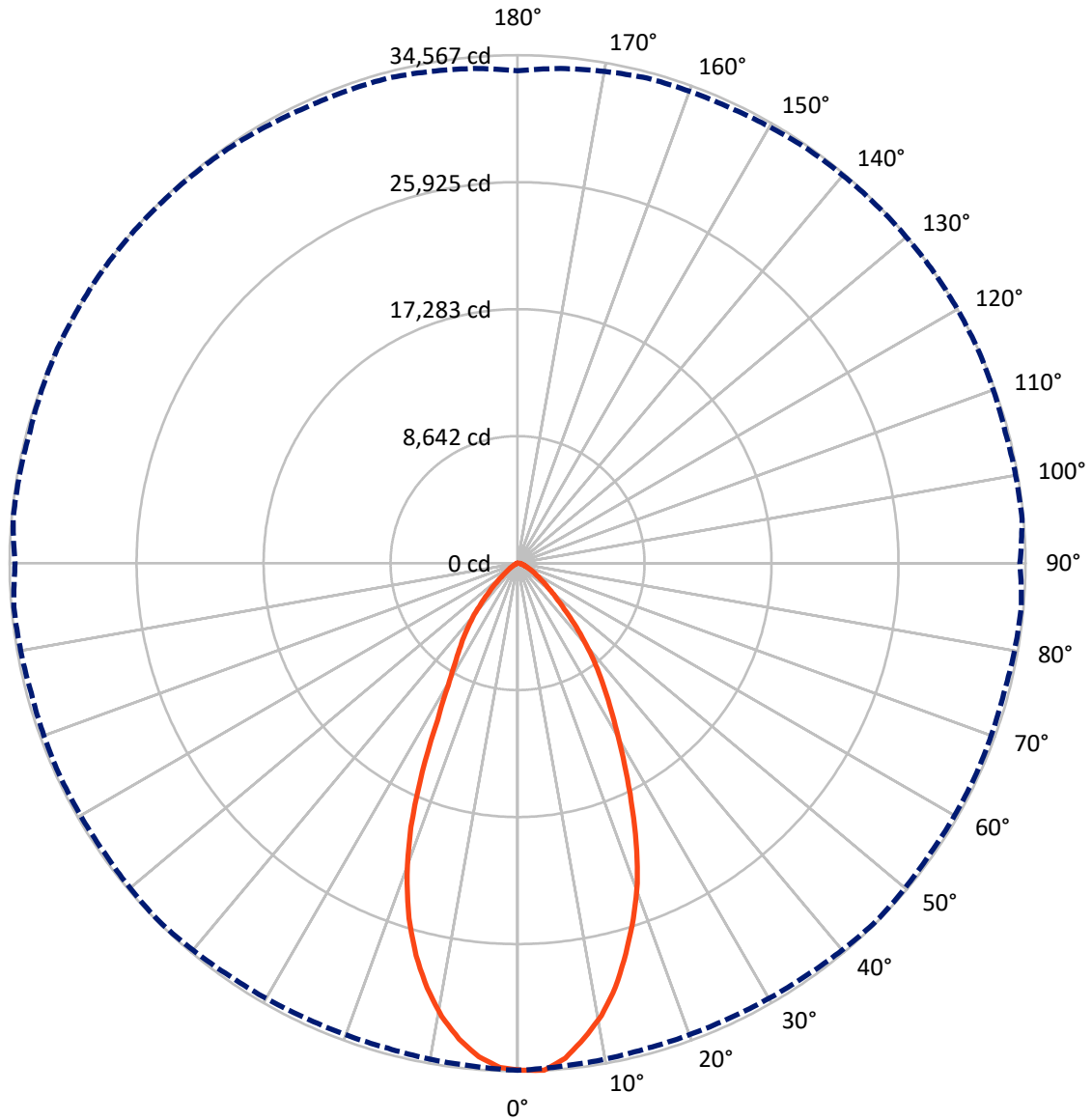
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 86.3 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
<b>House Side</b>	Lumens	16390.7	0.0	16390.7
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	12494.6	0.0	12494.6
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	28885.3	0.0	28885.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3133.7	10.8
10°-20°	7470.1	25.9
20°-30°	7608.1	26.3
30°-40°	5673.4	19.6
40°-50°	2963.9	10.3
50°-60°	1246.6	4.3
60°-70°	509.1	1.8
70°-80°	214.3	0.7
80°-90°	66.0	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°	28885.3	100.0
0°-180°	28885.3	100.0



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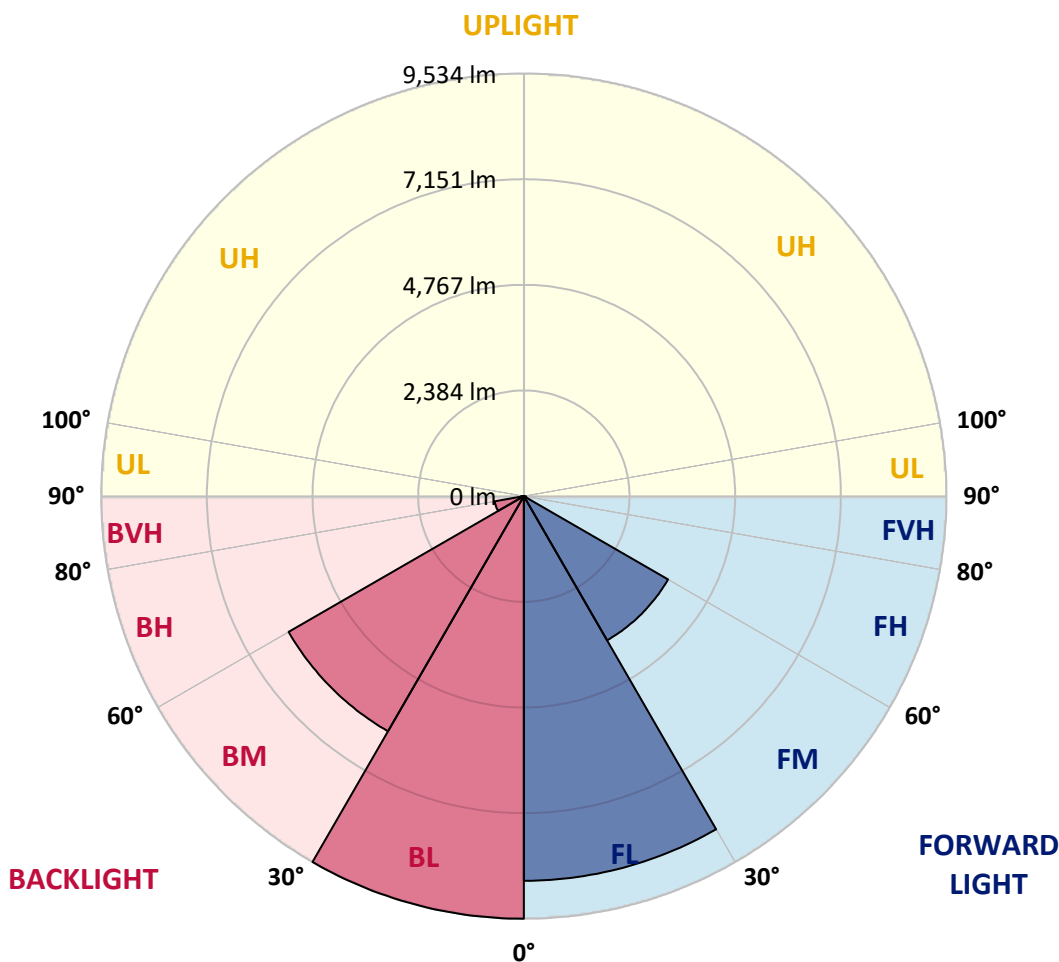
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8677.5	30.0			
FM (30°-60°)	3756.6	13.0			
FH (60°-80°)	54.4	0.2			G0/660
FVH (80°-90°)	6.1	0.0			G0/10
BL (0°-30°)	9534.5	33.0	B5		
BM (30°-60°)	6127.3	21.2	B4/8500		
BH (60°-80°)	669.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	59.9	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°	34510.9	34510.9	34510.9	34510.9	34510.9	34510.9	34510.9	34510.9	34510.9	34510.9
2.5°	34514.6	34373.6	34173.3	34154.7	34258.6	34484.9	34340.2	34347.7	34258.6	34410.7
5°	33972.9	33839.3	33702.0	33520.2	33672.4	33768.8	33694.6	33613.0	33498.0	33646.4
7.5°	32948.8	32874.6	32670.5	32588.9	32681.7	32789.3	32629.7	32607.5	32447.9	32640.8
10°	31383.0	31353.3	31153.0	31104.7	31186.4	31349.6	31279.1	31264.3	31164.1	31145.5
12.5°	29757.8	29642.8	29394.2	29379.4	29501.8	29746.7	29557.5	29375.7	29431.3	29479.5
15°	25572.4	25450.0	26065.9	27034.4	27542.7	27524.1	27579.8	27360.9	27294.1	27316.4
17.5°	20329.6	20121.8	20344.4	21843.4	24258.9	25661.5	25275.6	24804.4	24552.1	24385.1
20°	17546.7	17557.9	17517.0	17902.9	19409.4	22607.8	22515.0	21606.0	21275.7	21138.4
22.5°	15854.8	15791.7	15702.6	15825.1	16229.5	18107.0	19364.9	18530.0	18415.0	18262.8
25°	14196.2	14196.2	14088.6	14211.0	14326.1	14352.0	15613.6	15954.9	15732.3	15732.3
27.5°	12760.2	12686.0	12637.8	12693.5	12541.3	11810.4	11969.9	13717.5	13565.4	13472.7
30°	11335.4	11313.2	11231.5	11305.7	10741.8	9918.0	9584.1	11576.6	11736.2	11702.8
32.5°	9357.8	9446.8	9810.4	9925.5	8960.7	8296.6	7977.5	9610.1	10248.3	10222.3
35°	6359.7	6433.9	6849.5	8222.4	7428.3	6953.4	6860.6	7643.5	8693.6	8793.8
37.5°	5064.8	5053.6	5172.4	5417.3	5970.1	5855.1	5829.1	6033.2	7090.7	7135.2
40°	4174.3	4159.4	4155.7	3955.3	3818.1	4868.1	4797.6	4675.2	5591.7	5680.7
42.5°	3365.4	3380.2	3391.4	2953.5	2753.2	3755.0	3714.2	3588.0	4385.8	4489.6
45°	2641.8	2638.1	2660.4	2200.3	2144.6	2400.7	2775.4	2675.2	3309.7	3421.0
47.5°	1369.2	1417.4	1717.9	1703.1	1729.1	1703.1	2100.1	2074.1	2489.7	2667.8
50°	920.2	935.0	961.0	964.7	1361.7	1254.1	1424.8	1614.0	1743.9	2018.5
52.5°	712.4	723.5	656.8	615.9	834.9	927.6	935.0	1116.8	1217.0	1495.3
55°	397.0	445.3	478.6	482.4	460.1	686.4	682.7	827.4	905.4	1090.9
57.5°	51.9	63.1	96.5	311.7	308.0	382.2	478.6	601.1	645.6	797.7
60°	3.7	7.4	11.1	48.2	204.1	222.6	326.5	374.8	449.0	560.3
62.5°	0.0	0.0	3.7	11.1	40.8	129.9	170.7	196.7	263.4	367.3
65°	0.0	0.0	3.7	7.4	14.8	48.2	66.8	107.6	155.8	226.3
67.5°	0.0	0.0	3.7	7.4	11.1	18.6	29.7	48.2	81.6	137.3
70°	0.0	0.0	3.7	7.4	11.1	14.8	22.3	29.7	44.5	74.2
72.5°	0.0	0.0	3.7	3.7	7.4	18.6	18.6	22.3	29.7	40.8
75°	0.0	0.0	3.7	7.4	11.1	18.6	18.6	18.6	22.3	26.0
77.5°	0.0	0.0	3.7	7.4	11.1	18.6	14.8	18.6	18.6	18.6
80°	0.0	0.0	3.7	7.4	11.1	18.6	22.3	18.6	14.8	14.8
82.5°	0.0	0.0	3.7	11.1	11.1	26.0	26.0	26.0	11.1	11.1
85°	0.0	0.0	7.4	11.1	18.6	29.7	29.7	22.3	11.1	7.4
87.5°	0.0	0.0	3.7	7.4	7.4	14.8	22.3	18.6	7.4	3.7
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°
34510.9	0°	34510.9	34510.9	34510.9	34510.9	34510.9	34510.9	34510.9	34510.9	34510.9
34188.1	2.5°	34462.7	34369.9	34544.3	34566.6	34492.4	34399.6	34184.4	34165.8	33791.1
33431.2	5°	33809.6	33657.5	33768.8	33843.0	33817.1	33716.9	33627.8	33546.2	33208.5
32203.0	7.5°	32592.6	32537.0	32588.9	32644.6	32752.2	32644.6	32607.5	32522.1	32188.2
30993.4	10°	31242.0	31138.1	31334.8	31308.8	31279.1	31249.4	31093.6	31108.4	30715.1
29346.0	12.5°	29583.4	29409.0	29598.3	29620.5	29598.3	29494.4	29320.0	29394.2	29034.3
27119.7	15°	27353.5	27334.9	27472.2	27561.2	27624.3	27513.0	27453.6	27490.7	27275.5
24255.2	17.5°	24615.1	24856.3	25305.3	25457.4	25461.1	25576.1	25542.8	25498.2	25338.7
21082.8	20°	21394.5	21858.3	22548.4	23257.1	23461.2	23364.7	23320.2	23401.8	23164.4
18103.3	22.5°	18422.4	18819.4	19620.9	20656.1	21253.5	21312.8	21301.7	21231.2	21138.4
15717.5	25°	15899.3	16251.8	17019.8	17966.0	19112.5	19283.2	19290.6	19268.4	19186.7
13554.3	27.5°	13769.5	14196.2	14619.2	15465.2	16685.9	17390.9	17301.8	17275.9	17246.2
11728.7	30°	11840.1	12378.1	12775.1	13302.0	14396.6	15350.1	15442.9	15398.4	15327.9
10218.6	32.5°	10311.3	10630.4	11135.1	11491.3	12277.9	13357.6	13713.8	13680.4	13617.4
8856.8	35°	8983.0	9109.2	9506.2	9903.2	10426.4	11472.7	11999.6	11925.4	11914.3
7216.8	37.5°	7398.6	7821.6	8040.6	8441.3	8808.6	9621.2	10348.5	10315.1	10318.8
5803.1	40°	5973.8	6218.7	6652.8	6990.5	7328.1	7921.8	8730.7	8753.0	8745.5
4493.4	42.5°	4586.1	4823.6	5280.0	5647.3	5947.9	6315.2	7087.0	7112.9	7146.3
3499.0	45°	3580.6	3732.7	4066.7	4448.8	4767.9	4990.6	5576.8	5743.8	5747.5
2712.3	47.5°	2779.1	2953.5	3191.0	3558.3	3870.0	4029.6	4456.3	4682.6	4671.5
2081.6	50°	2181.7	2341.3	2534.2	2823.7	3161.3	3287.5	3602.8	3825.5	3814.3
1569.5	52.5°	1669.7	1873.8	2044.5	2267.1	2597.3	2704.9	2931.3	3187.3	3150.2
1150.2	55°	1265.3	1473.0	1632.6	1818.1	2118.7	2256.0	2411.8	2615.9	2623.3
890.5	57.5°	953.6	1168.8	1313.5	1502.7	1729.1	1881.2	1999.9	2218.9	2215.1
608.5	60°	682.7	868.2	1042.6	1239.3	1413.7	1588.1	1669.7	1877.5	1884.9
430.4	62.5°	493.5	667.9	834.9	1005.5	1161.4	1332.1	1406.3	1569.5	1591.8
282.0	65°	345.1	467.5	660.5	790.3	964.7	1090.9	1187.3	1328.3	1354.3
167.0	67.5°	222.6	337.7	523.2	638.2	797.7	905.4	1005.5	1116.8	1150.2
107.6	70°	133.6	256.0	389.6	512.0	656.8	753.2	849.7	946.2	964.7
51.9	72.5°	85.3	178.1	282.0	415.6	526.9	630.8	716.1	786.6	731.0
33.4	75°	48.2	122.4	222.6	326.5	426.7	526.9	597.4	634.5	508.3
22.3	77.5°	29.7	89.1	181.8	263.4	330.2	423.0	467.5	489.8	363.6
14.8	80°	18.6	66.8	152.1	215.2	215.2	311.7	363.6	382.2	263.4
11.1	82.5°	14.8	48.2	118.7	163.3	144.7	233.8	285.7	289.4	185.5
7.4	85°	11.1	37.1	74.2	107.6	100.2	163.3	167.0	185.5	122.4
7.4	87.5°	7.4	22.3	44.5	63.1	55.7	77.9	89.1	100.2	66.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
34510.9  
33498.0  
32937.7  
32117.7  
30581.5  
28930.4  
27015.8  
25101.2  
22993.7  
20960.3  
18912.2  
17071.8  
15238.8  
13450.4  
11791.8  
10200.0  
8615.7  
7035.0  
5651.0  
4630.6  
3814.3  
3153.9  
2623.3  
2207.7  
1866.4  
1584.4  
1346.9  
1146.5  
949.9  
679.0  
482.4  
341.4  
244.9  
170.7  
111.3  
59.4  
0.0

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