

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: P637916

Luminaire Tested: **IFLD-M-SA4E-740-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637916
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-740-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30528.2 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

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

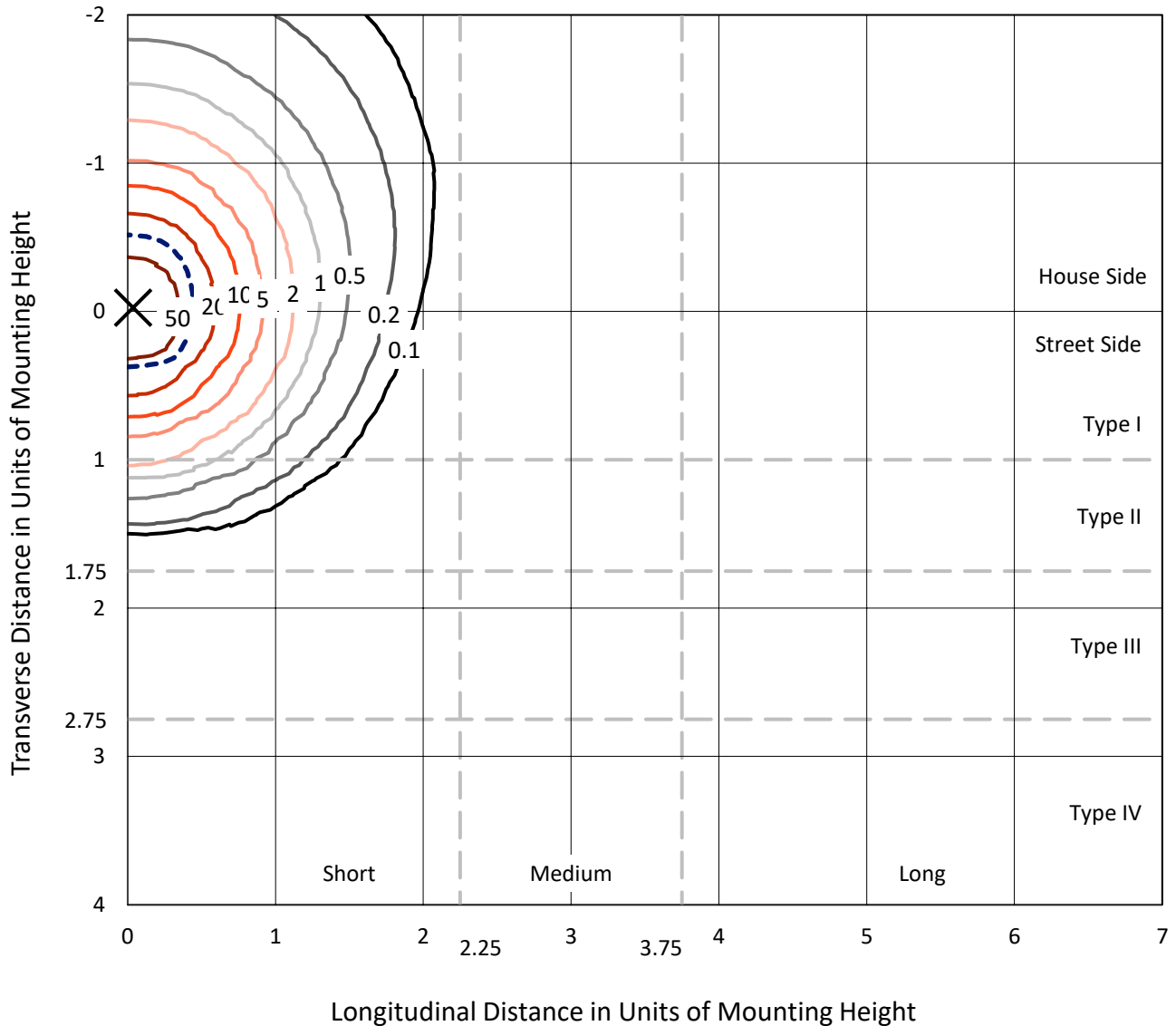




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Iso-Footcandle Lines of Horizontal Illumination

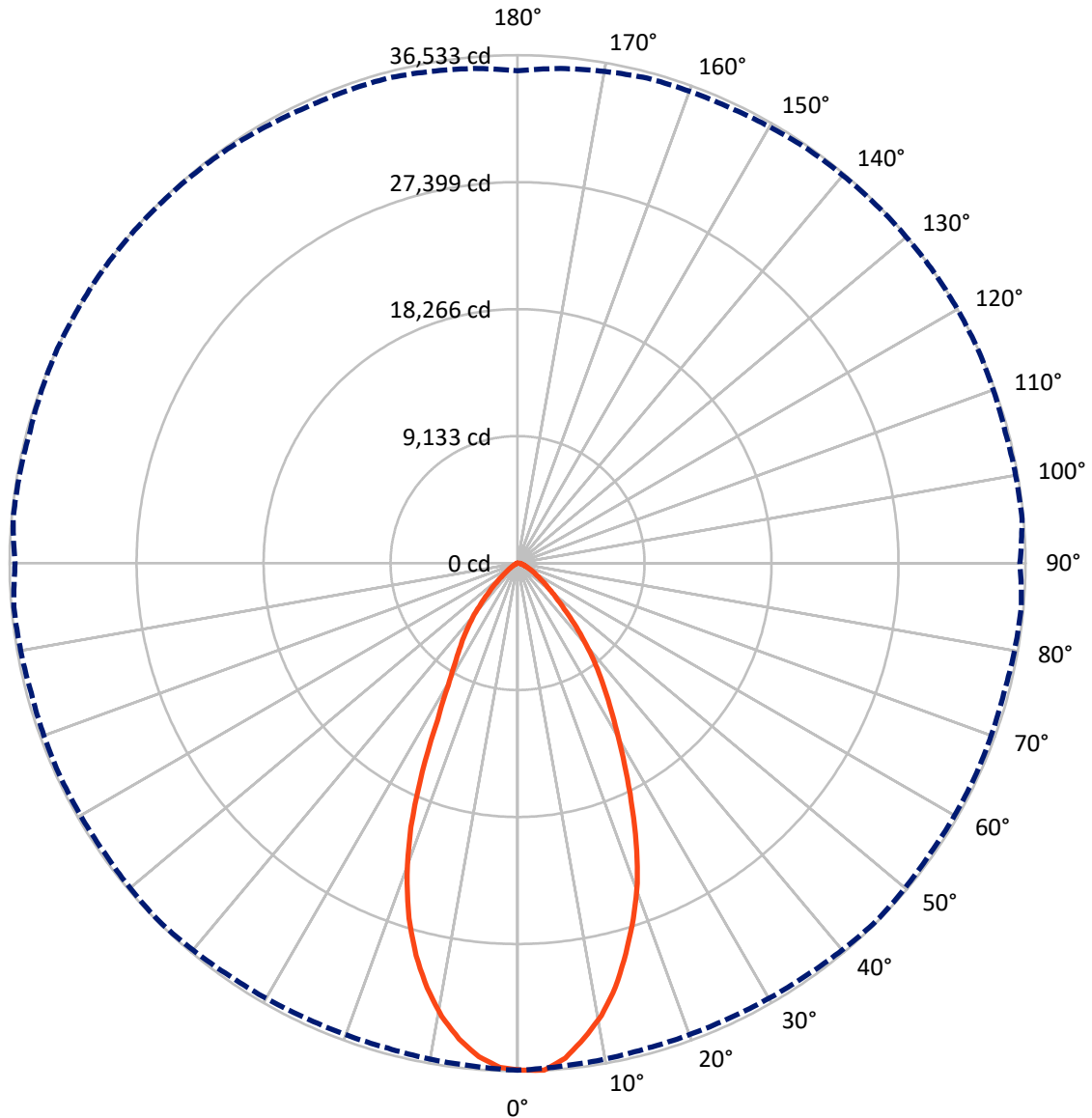
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 91.2 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	17322.9	0.0	17322.9
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	13205.3	0.0	13205.3
	% Fixture	43.3	0.0	43.3
Total	Lumens	30528.2	0.0	30528.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3312.0	10.8
10°-20°	7895.0	25.9
20°-30°	8040.9	26.3
30°-40°	5996.0	19.6
40°-50°	3132.5	10.3
50°-60°	1317.5	4.3
60°-70°	538.1	1.8
70°-80°	226.4	0.7
80°-90°	69.8	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°	30528.2	100.0
0°-180°	30528.2	100.0



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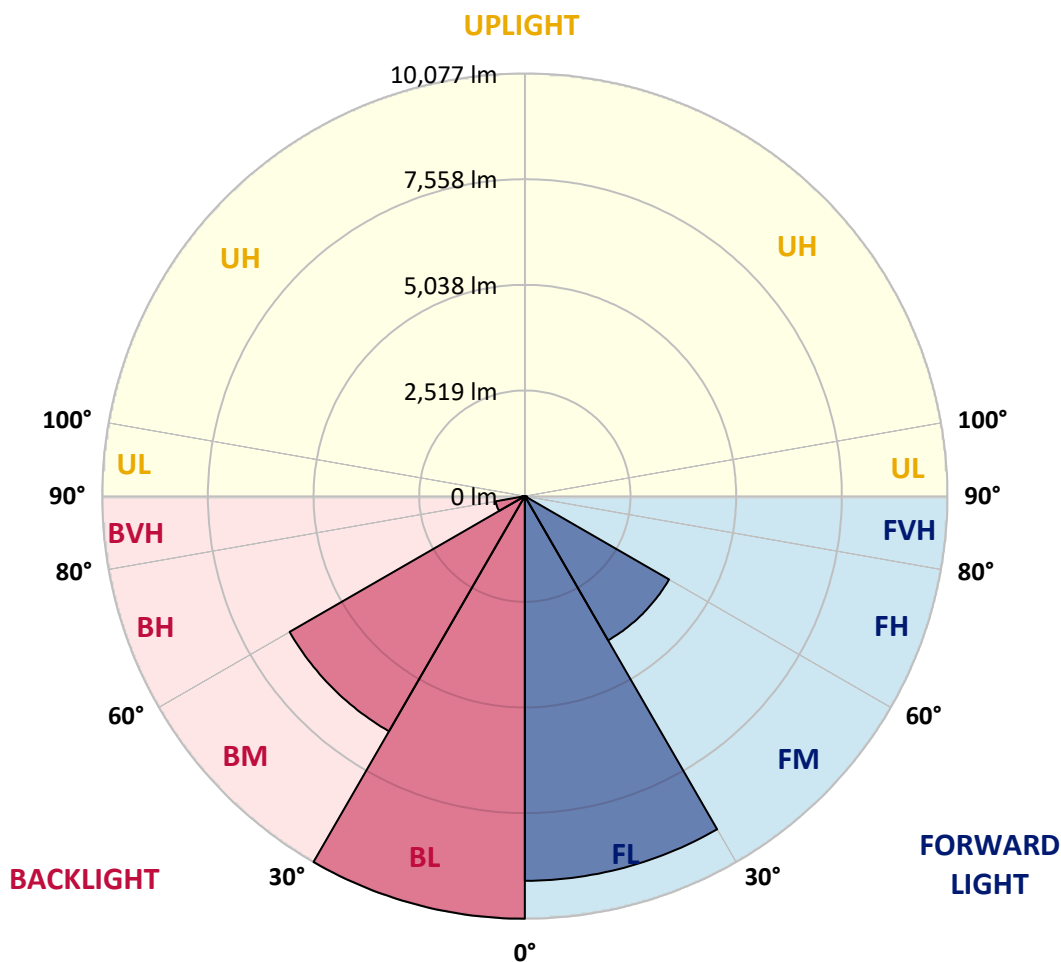
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9171.0	30.0			
FM (30°-60°)	3970.3	13.0			
FH (60°-80°)	57.4	0.2			G0/660
FVH (80°-90°)	6.5	0.0			G0/10
BL (0°-30°)	10076.7	33.0	B5		
BM (30°-60°)	6475.8	21.2	B4/8500		
BH (60°-80°)	707.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	63.3	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°	36473.8	36473.8	36473.8	36473.8	36473.8	36473.8	36473.8	36473.8	36473.8	36473.8
2.5°	36477.7	36328.7	36116.9	36097.3	36207.1	36446.3	36293.4	36301.2	36207.1	36367.9
5°	35905.1	35764.0	35618.9	35426.7	35587.5	35689.5	35611.0	35524.8	35403.2	35560.0
7.5°	34822.8	34744.4	34528.7	34442.4	34540.5	34654.2	34485.6	34462.0	34293.4	34497.3
10°	33167.9	33136.6	32924.8	32873.8	32960.1	33132.6	33058.1	33042.5	32936.6	32917.0
12.5°	31450.3	31328.8	31066.0	31050.3	31179.7	31438.6	31238.6	31046.4	31105.2	31156.2
15°	27026.9	26897.5	27548.4	28572.0	29109.2	29089.6	29148.4	28917.0	28846.5	28870.0
17.5°	21485.8	21266.2	21501.5	23085.8	25638.7	27121.0	26713.2	26215.1	25948.5	25772.0
20°	18544.7	18556.5	18513.3	18921.2	20513.3	23893.6	23795.6	22834.8	22485.8	22340.7
22.5°	16756.5	16689.9	16595.7	16725.1	17152.6	19136.9	20466.2	19583.9	19462.3	19301.6
25°	15003.6	15003.6	14889.9	15019.3	15140.9	15168.3	16501.6	16862.4	16627.1	16627.1
27.5°	13486.0	13407.6	13356.6	13415.4	13254.6	12482.1	12650.7	14497.7	14337.0	14238.9
30°	11980.1	11956.6	11870.3	11948.8	11352.7	10482.1	10129.2	12235.0	12403.7	12368.4
32.5°	9890.0	9984.1	10368.4	10490.0	9470.4	8768.4	8431.2	10156.7	10831.1	10803.7
35°	6721.4	6799.9	7239.1	8690.0	7850.8	7348.9	7250.8	8078.3	9188.0	9293.9
37.5°	5352.8	5341.1	5466.6	5725.4	6309.7	6188.1	6160.7	6376.3	7494.0	7541.0
40°	4411.7	4396.0	4392.1	4180.3	4035.2	5145.0	5070.5	4941.1	5909.7	6003.8
42.5°	3556.8	3572.5	3584.2	3121.5	2909.7	3968.5	3925.4	3792.1	4635.2	4745.0
45°	2792.1	2788.2	2811.7	2325.4	2266.6	2537.2	2933.3	2827.4	3498.0	3615.6
47.5°	1447.0	1498.0	1815.6	1800.0	1827.4	1800.0	2219.6	2192.1	2631.3	2819.5
50°	972.5	988.2	1015.7	1019.6	1439.2	1325.5	1505.9	1705.8	1843.1	2133.3
52.5°	752.9	764.7	694.1	651.0	882.3	980.4	988.2	1180.4	1286.2	1580.4
55°	419.6	470.6	505.9	509.8	486.3	725.5	721.6	874.5	956.8	1152.9
57.5°	54.9	66.7	102.0	329.4	325.5	403.9	505.9	635.3	682.3	843.1
60°	3.9	7.8	11.8	51.0	215.7	235.3	345.1	396.1	474.5	592.1
62.5°	0.0	0.0	3.9	11.8	43.1	137.3	180.4	207.8	278.4	388.2
65°	0.0	0.0	3.9	7.8	15.7	51.0	70.6	113.7	164.7	239.2
67.5°	0.0	0.0	3.9	7.8	11.8	19.6	31.4	51.0	86.3	145.1
70°	0.0	0.0	3.9	7.8	11.8	15.7	23.5	31.4	47.1	78.4
72.5°	0.0	0.0	3.9	3.9	7.8	19.6	19.6	23.5	31.4	43.1
75°	0.0	0.0	3.9	7.8	11.8	19.6	19.6	19.6	23.5	27.5
77.5°	0.0	0.0	3.9	7.8	11.8	19.6	15.7	19.6	19.6	19.6
80°	0.0	0.0	3.9	7.8	11.8	19.6	23.5	19.6	15.7	15.7
82.5°	0.0	0.0	3.9	11.8	11.8	27.5	27.5	27.5	11.8	11.8
85°	0.0	0.0	7.8	11.8	19.6	31.4	31.4	23.5	11.8	7.8
87.5°	0.0	0.0	3.9	7.8	7.8	15.7	23.5	19.6	7.8	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°
36473.8	0°	36473.8	36473.8	36473.8	36473.8	36473.8	36473.8	36473.8	36473.8	36473.8
36132.6	2.5°	36422.8	36324.7	36509.0	36532.6	36454.1	36356.1	36128.7	36109.1	35713.0
35332.6	5°	35732.6	35571.8	35689.5	35767.9	35740.4	35634.6	35540.4	35454.2	35097.3
34034.6	7.5°	34446.3	34387.5	34442.4	34501.2	34615.0	34501.2	34462.0	34371.8	34018.9
32756.2	10°	33018.9	32909.1	33117.0	33089.5	33058.1	33026.8	32862.1	32877.7	32462.1
31015.0	12.5°	31266.0	31081.7	31281.7	31305.2	31281.7	31171.9	30987.6	31066.0	30685.6
28662.2	15°	28909.2	28889.6	29034.7	29128.8	29195.5	29077.8	29015.1	29054.3	28826.9
25634.8	17.5°	26015.1	26270.0	26744.5	26905.3	26909.2	27030.8	26995.5	26948.5	26779.8
22281.9	20°	22611.3	23101.5	23830.9	24579.9	24795.6	24693.6	24646.5	24732.8	24481.8
19132.9	22.5°	19470.2	19889.8	20736.8	21830.9	22462.3	22525.0	22513.3	22438.8	22340.7
16611.4	25°	16803.6	17176.1	17987.9	18987.8	20199.6	20380.0	20387.8	20364.3	20278.0
14325.2	27.5°	14552.6	15003.6	15450.7	16344.8	17634.9	18380.0	18285.9	18258.4	18227.1
12395.8	30°	12513.5	13082.1	13501.7	14058.5	15215.4	16223.2	16321.2	16274.2	16199.7
10799.8	32.5°	10897.8	11235.1	11768.4	12144.8	12976.2	14117.4	14493.8	14458.5	14391.9
9360.6	35°	9493.9	9627.3	10046.9	10466.4	11019.4	12125.2	12682.1	12603.7	12591.9
7627.3	37.5°	7819.4	8266.5	8497.9	8921.4	9309.6	10168.4	10937.0	10901.7	10905.7
6133.2	40°	6313.6	6572.4	7031.2	7388.1	7744.9	8372.4	9227.3	9250.8	9242.9
4748.9	42.5°	4847.0	5097.9	5580.3	5968.5	6286.1	6674.4	7490.0	7517.5	7552.8
3698.0	45°	3784.2	3945.0	4298.0	4701.9	5039.1	5274.4	5894.0	6070.5	6074.4
2866.6	47.5°	2937.2	3121.5	3372.5	3760.7	4090.1	4258.7	4709.7	4948.9	4937.2
2200.0	50°	2305.8	2474.5	2678.4	2984.3	3341.1	3474.4	3807.8	4043.1	4031.3
1658.8	52.5°	1764.7	1980.4	2160.7	2396.0	2745.0	2858.8	3098.0	3368.6	3329.3
1215.7	55°	1337.2	1556.8	1725.5	1921.5	2239.2	2384.3	2549.0	2764.6	2772.5
941.2	57.5°	1007.8	1235.3	1388.2	1588.2	1827.4	1988.2	2113.7	2345.0	2341.1
643.1	60°	721.6	917.6	1101.9	1309.8	1494.1	1678.4	1764.7	1984.3	1992.1
454.9	62.5°	521.6	705.9	882.3	1062.7	1227.4	1407.8	1486.2	1658.8	1682.3
298.0	65°	364.7	494.1	698.0	835.3	1019.6	1152.9	1254.9	1403.9	1431.3
176.5	67.5°	235.3	356.9	552.9	674.5	843.1	956.8	1062.7	1180.4	1215.7
113.7	70°	141.2	270.6	411.8	541.2	694.1	796.1	898.0	1000.0	1019.6
54.9	72.5°	90.2	188.2	298.0	439.2	556.9	666.7	756.8	831.4	772.5
35.3	75°	51.0	129.4	235.3	345.1	451.0	556.9	631.4	670.6	537.2
23.5	77.5°	31.4	94.1	192.2	278.4	349.0	447.0	494.1	517.6	384.3
15.7	80°	19.6	70.6	160.8	227.4	227.4	329.4	384.3	403.9	278.4
11.8	82.5°	15.7	51.0	125.5	172.5	152.9	247.1	302.0	305.9	196.1
7.8	85°	11.8	39.2	78.4	113.7	105.9	172.5	176.5	196.1	129.4
7.8	87.5°	7.8	23.5	47.1	66.7	58.8	82.4	94.1	105.9	70.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
36473.8
35403.2
34811.0
33944.4
32320.9
30575.8
28552.3
26528.9
24301.5
22152.5
19987.8
18042.8
16105.5
14215.4
12462.5
10780.2
9105.7
7435.1
5972.4
4894.0
4031.3
3333.3
2772.5
2333.3
1972.5
1674.5
1423.5
1211.7
1003.9
717.6
509.8
360.8
258.8
180.4
117.6
62.7
0.0

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