

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: P637838

Luminaire Tested: **IFLD-L-SA8D-727-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637838
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-727-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39312 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

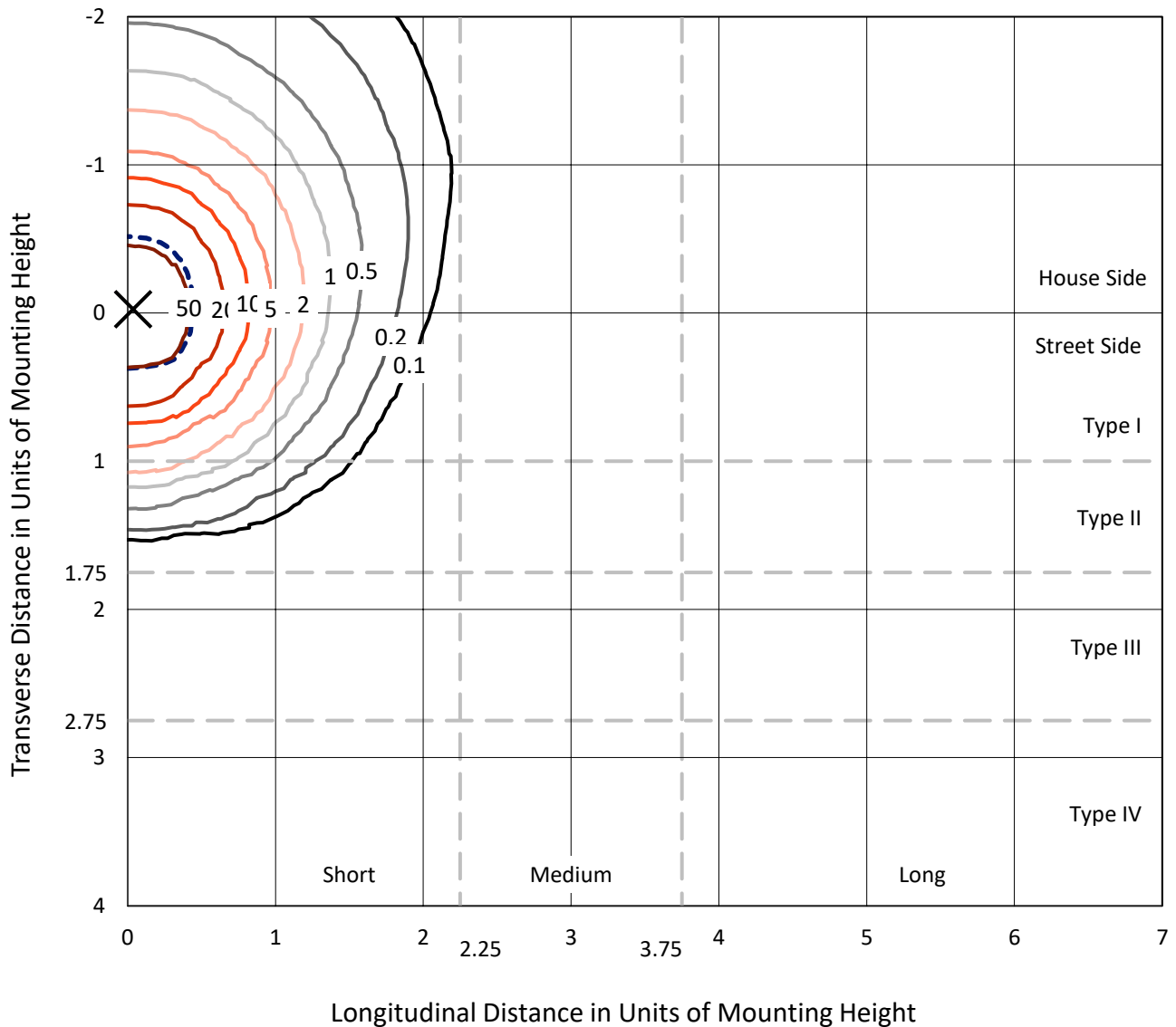
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

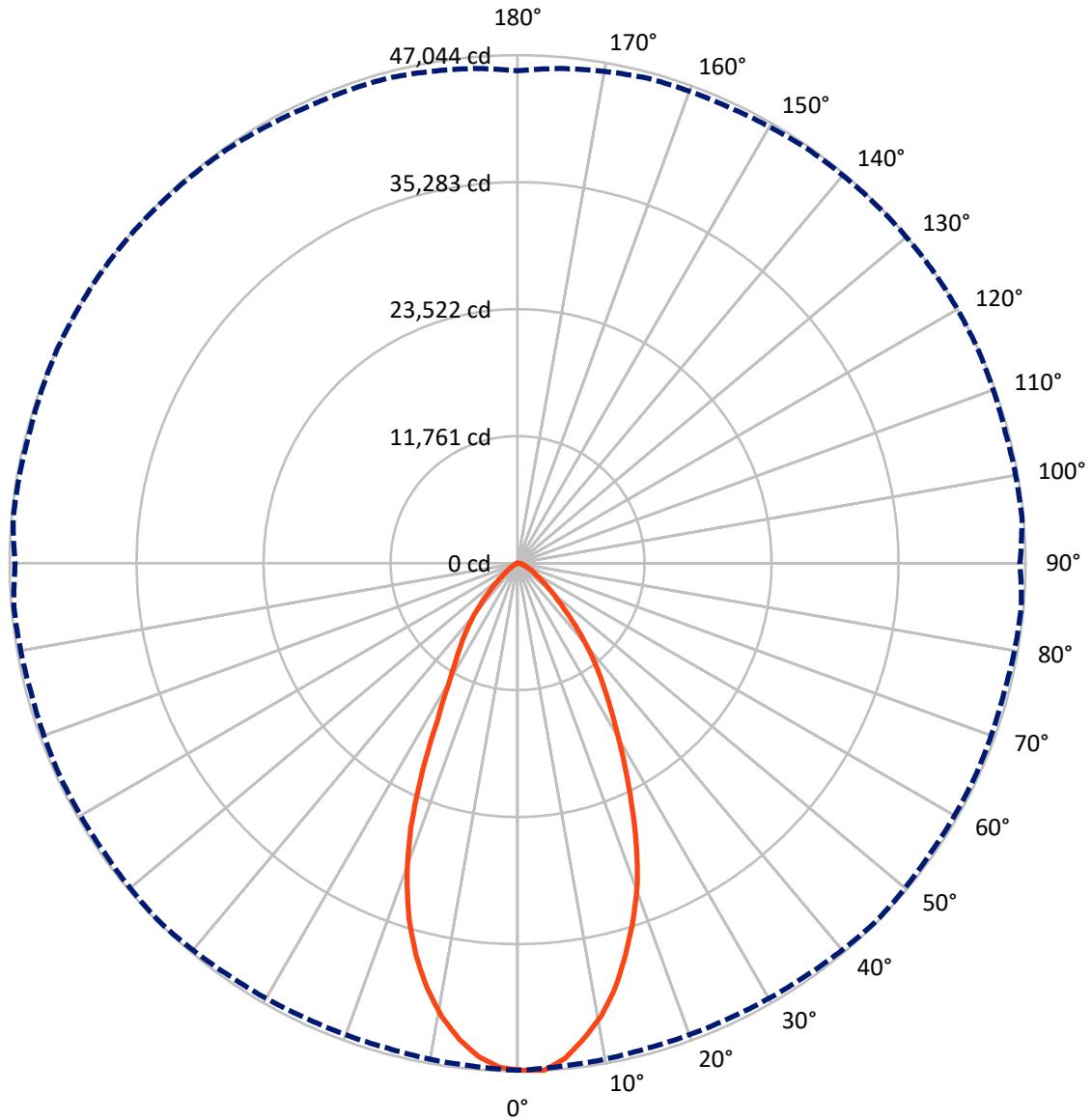
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 117.4 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	22307.2	0.0	22307.2
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	17004.8	0.0	17004.8
	% Fixture	43.3	0.0	43.3
Total	Lumens	39312.0	0.0	39312.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4264.9	10.8
10°-20°	10166.6	25.9
20°-30°	10354.5	26.3
30°-40°	7721.3	19.6
40°-50°	4033.8	10.3
50°-60°	1696.6	4.3
60°-70°	692.9	1.8
70°-80°	291.6	0.7
80°-90°	89.8	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°	39312.0	100.0
0°-180°	39312.0	100.0



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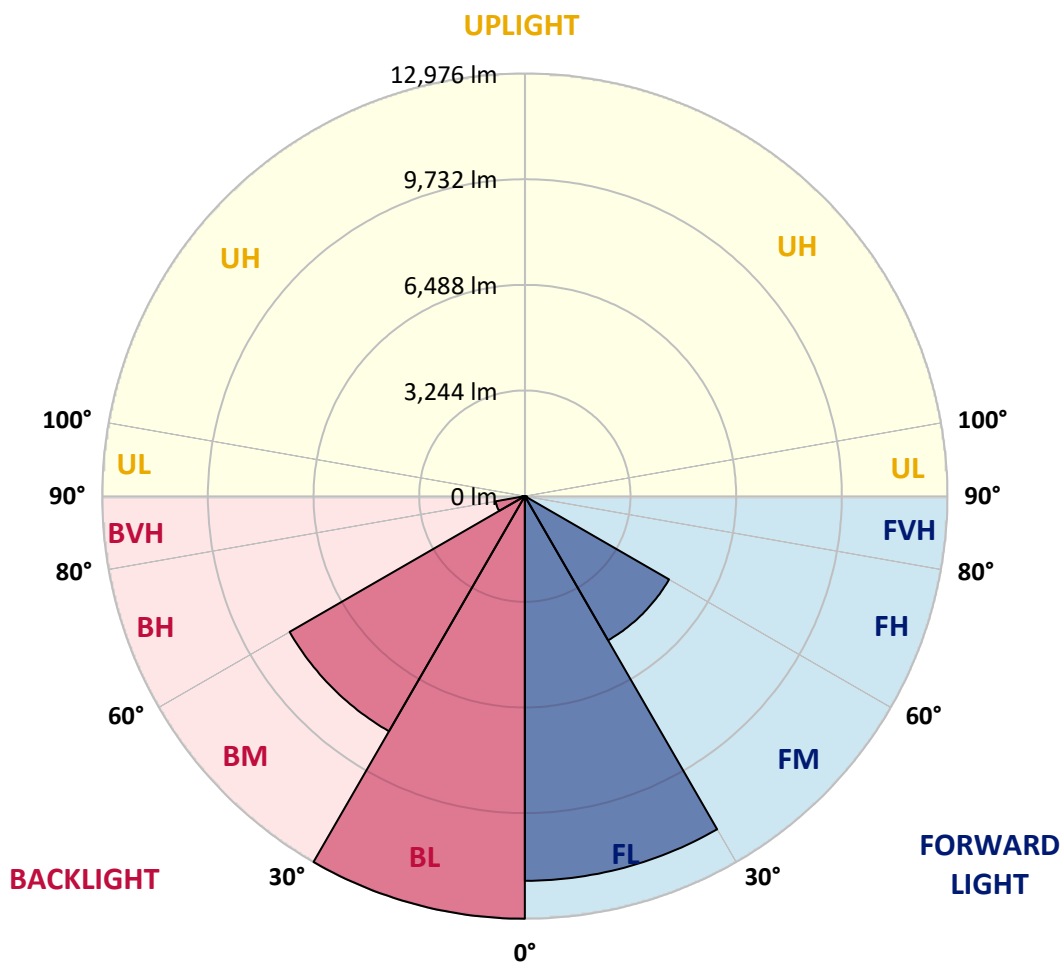
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11809.8	30.0			
FM (30°-60°)	5112.7	13.0			
FH (60°-80°)	73.9	0.2			G0/660
FVH (80°-90°)	8.3	0.0			G0/10
BL (0°-30°)	12976.1	33.0	B5		
BM (30°-60°)	8339.0	21.2	B4/8500		
BH (60°-80°)	910.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	81.5	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°	46968.4	46968.4	46968.4	46968.4	46968.4	46968.4	46968.4	46968.4	46968.4	46968.4
2.5°	46973.4	46781.5	46508.8	46483.6	46625.0	46933.0	46736.1	46746.2	46625.0	46832.0
5°	46236.1	46054.4	45867.5	45620.1	45827.1	45958.4	45857.4	45746.3	45589.8	45791.8
7.5°	44842.4	44741.4	44463.7	44352.6	44478.8	44625.3	44408.1	44377.8	44160.7	44423.3
10°	42711.4	42671.0	42398.3	42332.6	42443.7	42665.9	42570.0	42549.8	42413.4	42388.2
12.5°	40499.6	40343.0	40004.7	39984.5	40151.1	40484.4	40226.9	39979.4	40055.2	40120.8
15°	34803.4	34636.7	35475.0	36793.0	37484.8	37459.6	37535.3	37237.4	37146.5	37176.8
17.5°	27668.0	27385.2	27688.2	29728.3	33015.7	34924.6	34399.4	33758.0	33414.7	33187.4
20°	23880.6	23895.7	23840.2	24365.4	26415.6	30768.5	30642.3	29405.1	28955.7	28768.8
22.5°	21577.9	21492.0	21370.8	21537.5	22087.9	24643.1	26355.0	25218.8	25062.3	24855.2
25°	19320.6	19320.6	19174.2	19340.8	19497.4	19532.7	21249.6	21714.2	21411.2	21411.2
27.5°	17366.3	17265.3	17199.7	17275.4	17068.4	16073.6	16290.7	18669.2	18462.1	18335.9
30°	15427.2	15396.9	15285.8	15386.8	14619.2	13498.2	13043.7	15755.4	15972.6	15927.1
32.5°	12735.6	12856.8	13351.7	13508.3	12195.3	11291.4	10857.1	13079.0	13947.6	13912.3
35°	8655.4	8756.4	9322.0	11190.4	10109.7	9463.4	9337.1	10402.6	11831.7	11968.1
37.5°	6893.0	6877.9	7039.4	7372.7	8125.2	7968.6	7933.3	8211.0	9650.2	9710.8
40°	5681.0	5660.8	5655.8	5383.1	5196.3	6625.4	6529.4	6362.8	7610.1	7731.3
42.5°	4580.2	4600.4	4615.5	4019.7	3747.0	5110.4	5054.9	4883.2	5968.9	6110.3
45°	3595.5	3590.4	3620.7	2994.5	2918.8	3267.2	3777.3	3640.9	4504.4	4655.9
47.5°	1863.4	1929.0	2338.1	2317.9	2353.2	2317.9	2858.2	2822.8	3388.4	3630.8
50°	1252.4	1272.6	1307.9	1313.0	1853.3	1706.8	1939.1	2196.7	2373.4	2747.1
52.5°	969.6	984.7	893.8	838.3	1136.2	1262.5	1272.6	1520.0	1656.3	2035.1
55°	540.3	606.0	651.4	656.5	626.2	934.2	929.2	1126.1	1232.2	1484.6
57.5°	70.7	85.8	131.3	424.2	419.1	520.1	651.4	818.1	878.7	1085.7
60°	5.0	10.1	15.1	65.6	277.7	303.0	444.4	510.0	611.0	762.5
62.5°	0.0	0.0	5.0	15.1	55.5	176.7	232.3	267.6	358.5	499.9
65°	0.0	0.0	5.0	10.1	20.2	65.6	90.9	146.4	212.1	308.0
67.5°	0.0	0.0	5.0	10.1	15.1	25.2	40.4	65.6	111.1	186.8
70°	0.0	0.0	5.0	10.1	15.1	20.2	30.3	40.4	60.6	101.0
72.5°	0.0	0.0	5.0	5.0	10.1	25.2	25.2	30.3	40.4	55.5
75°	0.0	0.0	5.0	10.1	15.1	25.2	25.2	25.2	30.3	35.3
77.5°	0.0	0.0	5.0	10.1	15.1	25.2	20.2	25.2	25.2	25.2
80°	0.0	0.0	5.0	10.1	15.1	25.2	30.3	25.2	20.2	20.2
82.5°	0.0	0.0	5.0	15.1	15.1	35.3	35.3	35.3	15.1	15.1
85°	0.0	0.0	10.1	15.1	25.2	40.4	40.4	30.3	15.1	10.1
87.5°	0.0	0.0	5.0	10.1	10.1	20.2	30.3	25.2	10.1	5.0
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°
46968.4	0°	46968.4	46968.4	46968.4	46968.4	46968.4	46968.4	46968.4	46968.4	46968.4
46529.0	2.5°	46902.7	46776.5	47013.8	47044.1	46943.1	46816.9	46524.0	46498.7	45988.7
45498.9	5°	46014.0	45806.9	45958.4	46059.4	46024.1	45887.7	45766.5	45655.4	45195.9
43827.4	7.5°	44357.6	44281.9	44352.6	44428.3	44574.8	44428.3	44377.8	44261.7	43807.2
42181.1	10°	42519.5	42378.1	42645.7	42610.4	42570.0	42529.6	42317.5	42337.7	41802.4
39939.0	12.5°	40262.2	40024.9	40282.4	40312.7	40282.4	40141.0	39903.7	40004.7	39514.8
36909.1	15°	37227.3	37202.0	37388.9	37510.1	37595.9	37444.4	37363.6	37414.1	37121.2
33010.7	17.5°	33500.5	33828.7	34439.8	34646.8	34651.9	34808.4	34763.0	34702.4	34485.2
28693.1	20°	29117.3	29748.5	30687.8	31652.3	31930.0	31798.7	31738.1	31849.2	31526.0
24638.1	22.5°	25072.4	25612.7	26703.4	28112.3	28925.4	29006.2	28991.0	28895.1	28768.8
21391.0	25°	21638.5	22118.2	23163.5	24451.2	26011.6	26243.9	26254.0	26223.7	26112.6
18447.0	27.5°	18739.9	19320.6	19896.3	21047.6	22709.0	23668.5	23547.3	23512.0	23471.6
15962.5	30°	16114.0	16846.2	17386.5	18103.6	19593.3	20891.1	21017.3	20956.8	20860.8
13907.2	32.5°	14033.4	14467.7	15154.5	15639.3	16709.9	18179.3	18664.1	18618.7	18532.8
12053.9	35°	12225.6	12397.3	12937.6	13478.0	14190.0	15614.0	16331.1	16230.1	16215.0
9821.9	37.5°	10069.3	10645.0	10943.0	11488.3	11988.3	13094.2	14083.9	14038.5	14043.5
7897.9	40°	8130.2	8463.5	9054.3	9513.9	9973.4	10781.4	11882.2	11912.5	11902.4
6115.3	42.5°	6241.6	6564.8	7185.9	7685.8	8094.9	8594.8	9645.2	9680.5	9726.0
4762.0	45°	4873.1	5080.1	5534.6	6054.7	6489.0	6792.0	7589.9	7817.1	7822.2
3691.4	47.5°	3782.3	4019.7	4342.8	4842.8	5267.0	5484.1	6064.8	6372.9	6357.7
2832.9	50°	2969.3	3186.4	3449.0	3842.9	4302.4	4474.1	4903.4	5206.4	5191.2
2136.1	52.5°	2272.4	2550.2	2782.5	3085.4	3534.9	3681.3	3989.4	4337.8	4287.3
1565.4	55°	1722.0	2004.8	2221.9	2474.4	2883.4	3070.3	3282.4	3560.1	3570.2
1212.0	57.5°	1297.8	1590.7	1787.6	2045.2	2353.2	2560.3	2721.9	3019.8	3014.7
828.2	60°	929.2	1181.7	1419.0	1686.6	1924.0	2161.3	2272.4	2555.2	2565.3
585.8	62.5°	671.6	909.0	1136.2	1368.5	1580.6	1812.9	1913.9	2136.1	2166.4
383.8	65°	469.6	636.3	898.9	1075.6	1313.0	1484.6	1615.9	1807.8	1843.2
227.2	67.5°	303.0	459.5	712.0	868.6	1085.7	1232.2	1368.5	1520.0	1565.4
146.4	70°	181.8	348.4	530.2	696.9	893.8	1025.1	1156.4	1287.7	1313.0
70.7	72.5°	116.1	242.4	383.8	565.6	717.1	858.5	974.6	1070.6	994.8
45.4	75°	65.6	166.6	303.0	444.4	580.7	717.1	813.0	863.5	691.8
30.3	77.5°	40.4	121.2	247.4	358.5	449.4	575.7	636.3	666.6	494.9
20.2	80°	25.2	90.9	207.0	292.9	292.9	424.2	494.9	520.1	358.5
15.1	82.5°	20.2	65.6	161.6	222.2	196.9	318.1	388.8	393.9	252.5
10.1	85°	15.1	50.5	101.0	146.4	136.3	222.2	227.2	252.5	166.6
10.1	87.5°	10.1	30.3	60.6	85.8	75.7	106.0	121.2	136.3	90.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
46968.4
45589.8
44827.2
43711.2
41620.6
39373.4
36767.7
34162.0
31293.7
28526.4
25738.9
23234.2
20739.6
18305.6
16048.3
13882.0
11725.7
9574.5
7690.9
6302.2
5191.2
4292.3
3570.2
3004.6
2540.1
2156.3
1833.1
1560.4
1292.8
924.1
656.5
464.6
333.3
232.3
151.5
80.8
0.0

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