

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: P638473

Luminaire Tested: **IFLD-L-SA8A-750-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638473
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-750-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25826.3 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

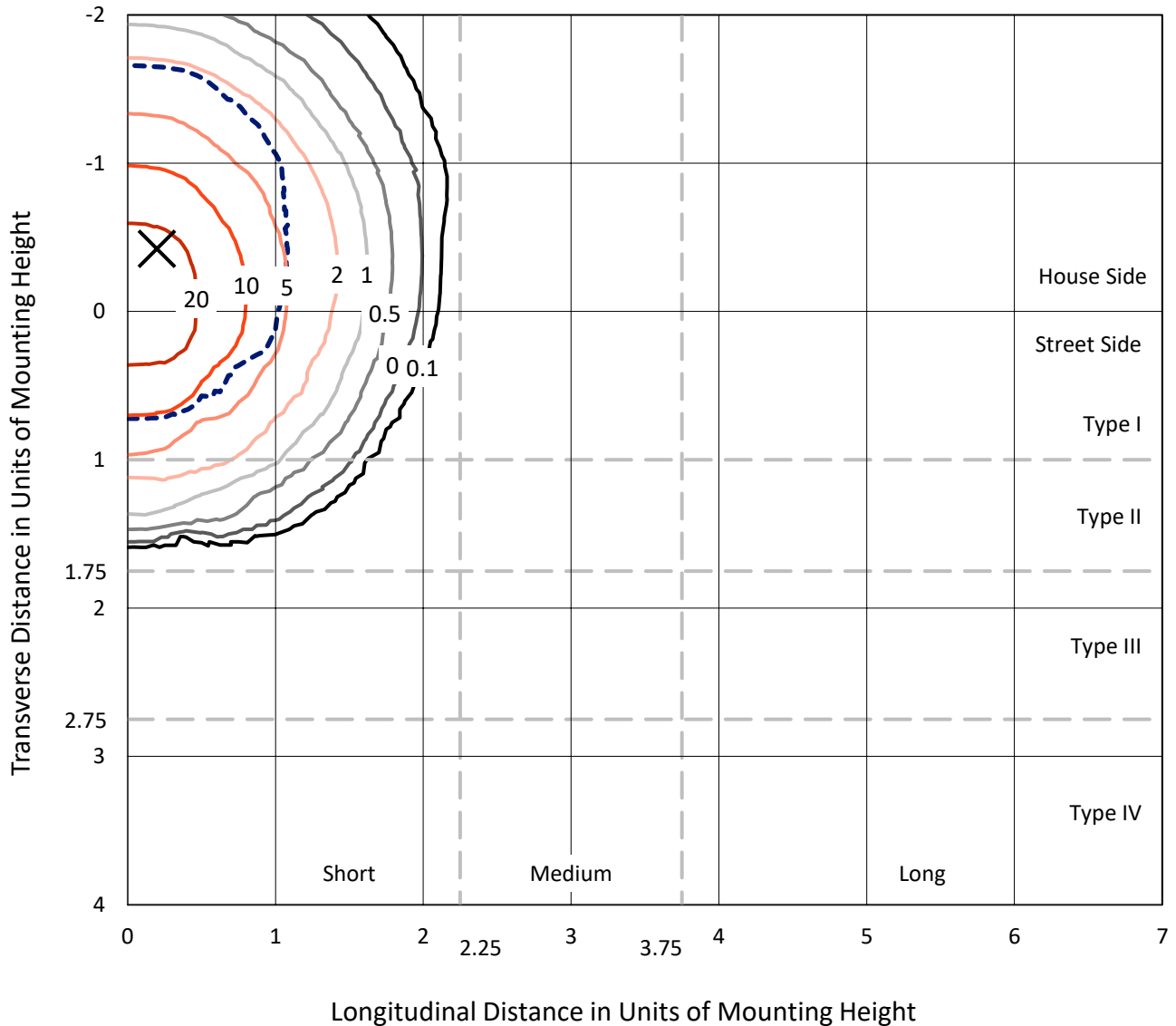
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

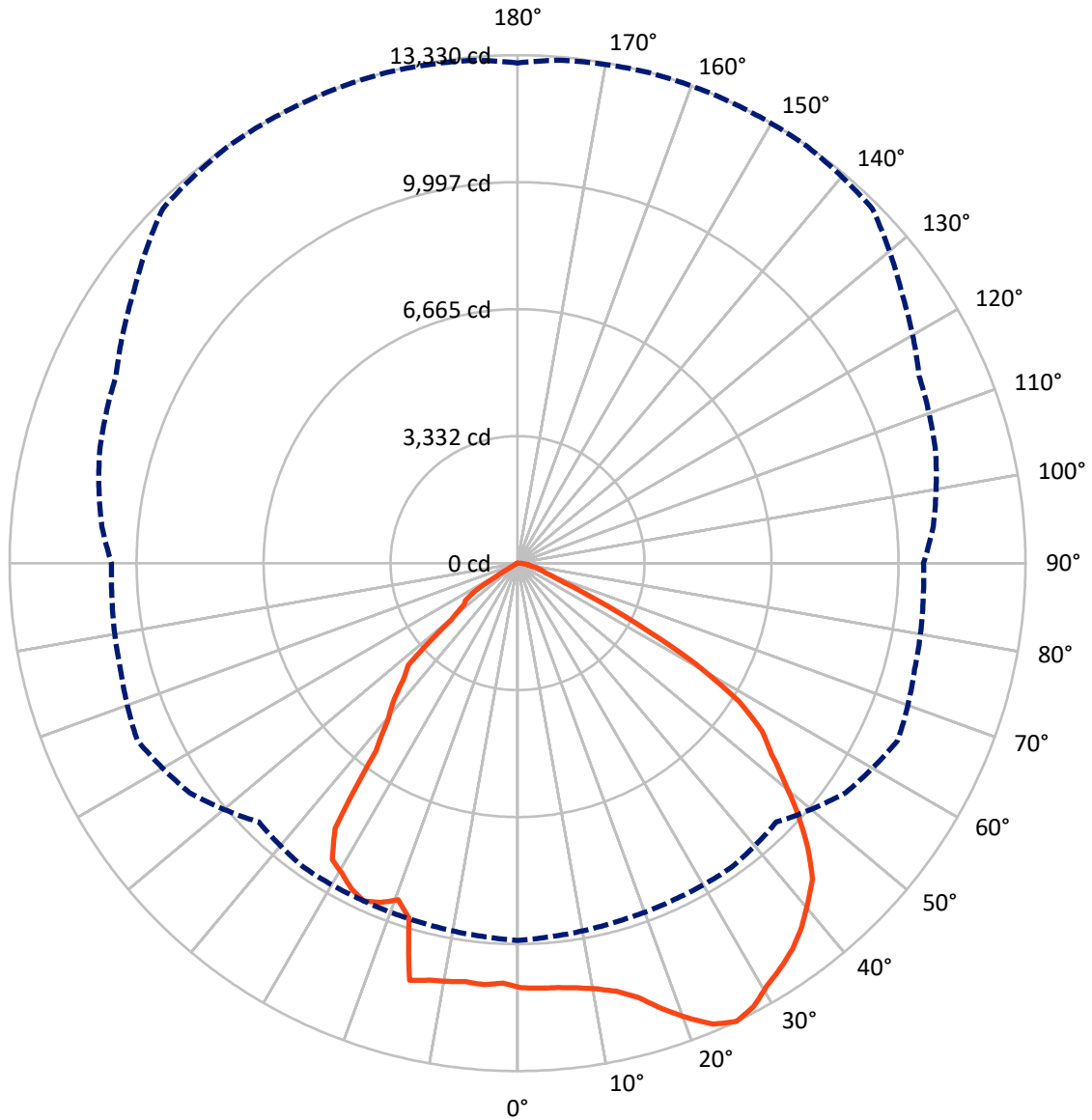
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 27.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15989.1	0.0	15989.1
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	9837.2	0.0	9837.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	25826.3	0.0	25826.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1069.1	4.1
10°-20°	3264.4	12.6
20°-30°	5160.8	20.0
30°-40°	5829.6	22.6
40°-50°	5459.5	21.1
50°-60°	3763.9	14.6
60°-70°	1011.2	3.9
70°-80°	210.7	0.8
80°-90°	57.0	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°	25826.3	100.0
0°-180°	25826.3	100.0



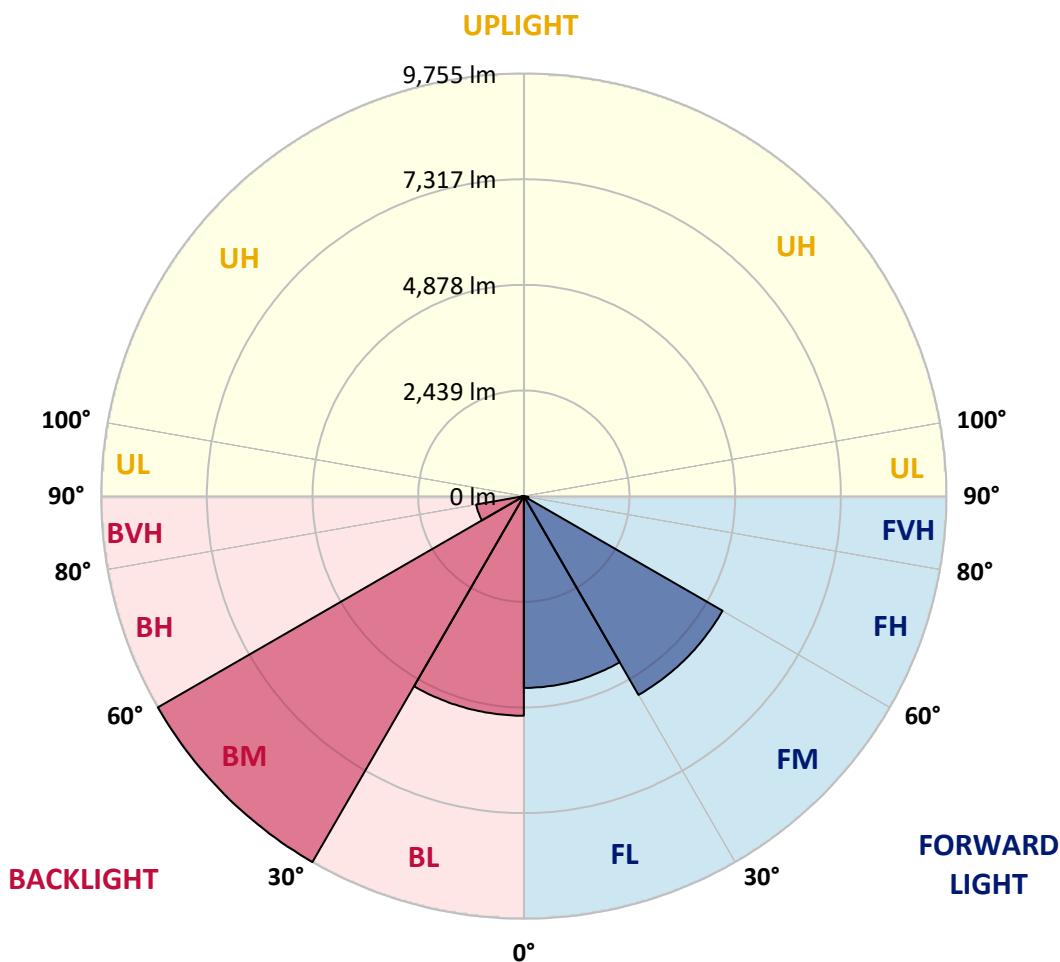
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4425.8	17.1			
FM (30°-60°)	5297.6	20.5			
FH (60°-80°)	106.2	0.4			G0/660
FVH (80°-90°)	7.7	0.0			G0/10
BL (0°-30°)	5068.5	19.6	B5		
BM (30°-60°)	9755.5	37.8	B5		
BH (60°-80°)	1115.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	49.4	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-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11143.6	11143.6	11143.6	11143.6	11143.6	11143.6	11143.6	11143.6	11143.6	11143.6
2.5°	11192.9	11120.8	11052.5	11029.7	11124.6	11227.1	11162.6	11166.4	11143.6	11185.3
5°	11276.4	11177.7	11132.2	11098.0	11113.2	11219.5	11128.4	11162.6	11124.6	11173.9
7.5°	11246.1	11177.7	11132.2	11067.7	11117.0	11242.3	11155.0	11158.8	11139.8	11185.3
10°	11227.1	11177.7	11120.8	11128.4	11185.3	11291.6	11223.3	11261.2	11234.7	11261.2
12.5°	11272.6	11219.5	11189.1	11189.1	11238.5	11359.9	11325.8	11359.9	11348.5	11371.3
15°	10843.7	10893.1	11181.5	11310.6	11409.3	11530.7	11515.5	11549.7	11557.3	11591.4
17.5°	9147.1	9097.8	9075.0	9739.2	11504.2	11879.9	11868.5	11864.7	11826.8	11800.2
20°	9371.1	9352.1	9325.5	9374.9	9572.2	12062.1	12138.0	11671.2	11534.5	11523.1
22.5°	9727.9	9697.5	9598.8	9602.6	9663.3	10487.0	11762.2	11337.2	11291.6	11265.0
25°	9902.5	9841.7	9762.0	9739.2	9758.2	9606.4	10505.9	11010.7	10786.8	10684.3
27.5°	9595.0	9598.8	9534.3	9595.0	9522.9	8839.7	8456.4	10373.1	10365.5	10320.0
30°	9363.5	9352.1	9276.2	9352.1	8854.9	8092.0	7928.8	9674.7	9595.0	9534.3
32.5°	8653.7	8661.3	8881.5	9177.5	8361.5	7758.0	7264.6	8642.3	9397.7	9363.5
35°	6190.5	6205.6	6987.5	8448.8	7613.8	7093.8	7055.8	7469.5	9086.4	9101.6
37.5°	5958.9	5958.9	5940.0	6179.1	7025.5	6824.3	6900.2	6858.5	8323.5	8361.5
40°	5791.9	5757.8	5731.2	5355.4	4884.8	6634.5	6687.7	6497.9	7868.1	7875.7
42.5°	5590.8	5552.8	5560.4	4865.8	4372.4	6163.9	6015.9	5761.6	7109.0	7116.6
45°	5222.6	5287.1	5332.7	4258.5	4220.6	4402.8	5549.0	5389.6	6596.6	6737.0
47.5°	2656.8	2713.8	4163.7	3917.0	4004.2	3913.2	4687.4	4691.2	5488.3	5955.1
50°	2410.1	2395.0	2398.8	2284.9	3696.8	3165.4	3389.4	4300.3	4395.2	5063.2
52.5°	2246.9	2243.1	2011.6	1787.7	2322.8	2785.9	2459.5	3112.3	3267.9	4288.9
55°	1662.4	1783.9	1586.5	1681.4	1453.7	2231.8	2220.4	2808.7	2861.8	3438.7
57.5°	15.2	19.0	45.5	1279.1	1005.8	1115.9	1533.4	1916.7	2011.6	2679.6
60°	3.8	7.6	19.0	38.0	652.8	687.0	1024.8	1108.3	1248.7	1597.9
62.5°	0.0	0.0	7.6	19.0	34.2	280.9	326.4	356.8	550.3	816.0
65°	0.0	0.0	3.8	11.4	19.0	45.5	79.7	167.0	239.1	296.0
67.5°	0.0	0.0	3.8	7.6	15.2	22.8	45.5	64.5	102.5	174.6
70°	0.0	0.0	3.8	7.6	11.4	19.0	30.4	45.5	60.7	87.3
72.5°	0.0	0.0	3.8	7.6	7.6	22.8	22.8	34.2	45.5	56.9
75°	0.0	0.0	3.8	3.8	7.6	15.2	22.8	26.6	30.4	45.5
77.5°	0.0	0.0	3.8	7.6	11.4	15.2	19.0	30.4	26.6	26.6
80°	0.0	0.0	3.8	11.4	11.4	19.0	22.8	30.4	19.0	19.0
82.5°	0.0	0.0	3.8	15.2	11.4	38.0	38.0	41.8	15.2	15.2
85°	0.0	0.0	11.4	7.6	22.8	38.0	34.2	22.8	19.0	11.4
87.5°	0.0	0.0	3.8	3.8	7.6	11.4	26.6	22.8	7.6	7.6
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°
11143.6	0°	11143.6	11143.6	11143.6	11143.6	11143.6	11143.6	11143.6	11143.6	11143.6
11075.3	2.5°	11227.1	11177.7	11280.2	11268.8	11219.5	11196.7	11170.1	11147.4	10980.4
11082.9	5°	11230.9	11155.0	11280.2	11257.4	11249.9	11211.9	11189.1	11223.3	11071.5
11113.2	7.5°	11230.9	11155.0	11291.6	11299.2	11287.8	11257.4	11253.7	11276.4	11151.2
11166.4	10°	11306.8	11276.4	11390.3	11401.7	11386.5	11378.9	11359.9	11344.7	11211.9
11348.5	12.5°	11466.2	11405.5	11534.5	11568.7	11557.3	11576.3	11530.7	11553.5	11416.9
11534.5	15°	11659.8	11663.6	11762.2	11838.2	11830.6	11891.3	11823.0	11883.7	11785.0
11747.1	17.5°	11955.8	11997.6	12138.0	12251.9	12293.6	12339.2	12293.6	12312.6	12172.2
11511.7	20°	11644.6	11800.2	12475.8	12684.6	12771.8	12813.6	12737.7	12760.5	12620.0
11223.3	22.5°	11363.7	11564.9	12164.6	12817.4	13086.9	13170.4	13143.8	13140.0	13086.9
10654.0	25°	10950.0	11356.1	11625.6	12316.4	13162.8	13314.6	13329.8	13326.0	13246.3
10304.8	27.5°	10441.4	10532.5	11230.9	11652.2	12631.4	13208.3	13185.6	13075.5	12969.2
9579.8	30°	9792.4	10206.1	10521.1	11192.9	11944.4	12881.9	12881.9	12798.4	12688.3
9321.7	32.5°	9462.2	9997.3	10289.6	10532.5	11173.9	12517.6	12669.4	12582.1	12494.8
9120.6	35°	9287.6	9367.3	10050.5	10270.6	10813.4	11815.4	12430.3	12343.0	12278.4
8585.4	37.5°	8904.2	9090.2	9409.0	9997.3	10164.3	11242.3	12111.4	12065.9	11990.0
7890.8	40°	8050.3	8547.5	9037.1	9595.0	9769.6	10505.9	11724.3	11743.3	11640.8
7150.7	42.5°	7545.4	7883.2	8649.9	9025.7	9496.3	10031.5	11348.5	11378.9	11306.8
6775.0	45°	6953.4	7329.1	7868.1	8551.3	9192.7	9378.7	10684.3	11003.1	10942.4
6027.3	47.5°	6410.6	6714.2	7374.7	8065.4	8775.2	8748.6	9921.4	10521.1	10437.6
5454.1	50°	5640.1	6171.5	6482.7	7116.6	8175.5	8247.6	9109.2	9955.6	9887.3
4634.3	52.5°	4755.8	5423.8	6019.7	6600.4	7568.2	7739.0	8353.9	9378.7	9333.1
3541.2	55°	4156.1	4641.9	5313.7	5780.5	6831.9	7287.4	7788.4	8828.3	8805.6
2911.1	57.5°	2956.7	3894.2	4448.3	5101.1	5655.3	6478.9	6850.9	7708.7	7496.1
1613.1	60°	2004.0	2444.3	3119.9	3822.1	4194.0	5017.6	5363.0	6050.0	5993.1
964.1	62.5°	1058.9	1465.1	1947.1	2300.1	2569.6	3370.4	3514.6	4254.8	4235.8
387.1	65°	466.8	618.7	1055.1	1237.3	1514.4	1886.4	2011.6	2277.3	2212.8
189.8	67.5°	242.9	368.2	595.9	732.5	922.3	1062.7	1165.2	1248.7	1301.9
125.3	70°	148.0	269.5	368.2	508.6	633.8	747.7	827.4	941.3	1009.6
64.5	72.5°	110.1	170.8	254.3	390.9	459.3	592.1	671.8	755.3	816.0
53.1	75°	60.7	113.9	205.0	307.4	368.2	482.0	554.1	611.1	630.1
30.4	77.5°	38.0	87.3	170.8	239.1	288.5	390.9	372.0	425.1	470.6
22.8	80°	26.6	64.5	132.8	197.4	201.2	250.5	296.0	341.6	372.0
15.2	82.5°	19.0	53.1	98.7	151.8	132.8	193.6	231.5	265.7	193.6
11.4	85°	15.2	38.0	49.3	91.1	75.9	136.6	117.7	113.9	75.9
7.6	87.5°	11.4	19.0	34.2	41.8	30.4	30.4	38.0	45.5	38.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11143.6
10866.5
10942.4
11006.9
11101.8
11295.4
11621.8
12050.7
12521.3
12916.1
13124.8
12885.7
12646.6
12422.7
12187.3
11914.1
11618.0
11299.2
10950.0
10498.3
9898.7
9363.5
8832.1
7473.3
5996.9
4239.6
2186.2
1301.9
1013.4
827.4
618.7
478.2
375.8
140.4
75.9
38.0
0.0

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