

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: P638557

Luminaire Tested: **IFLD-L-SA7C-830-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638557  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-830-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25962.3 lumens  
Efficiency: N/A  
Efficacy: 70.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

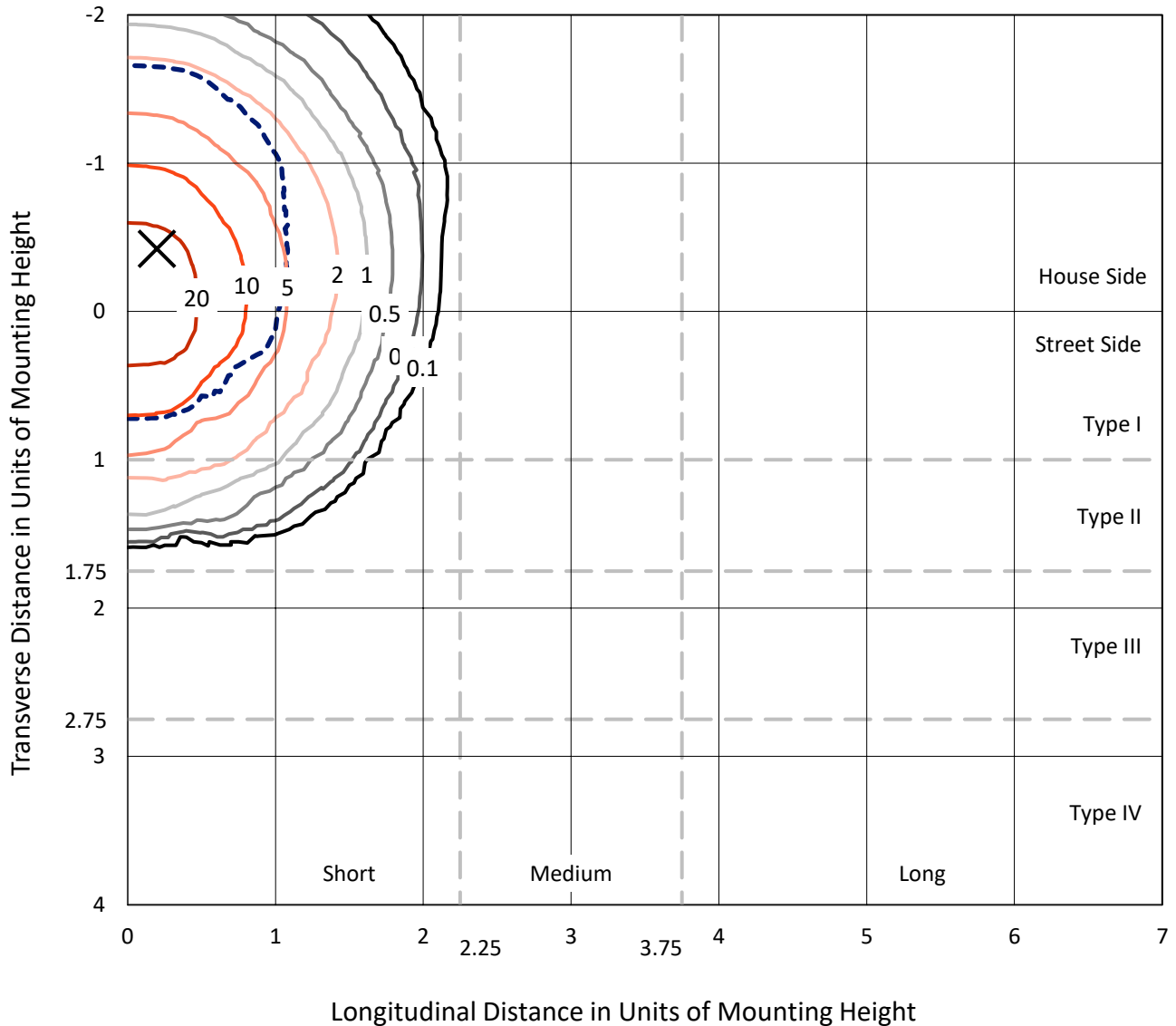
Input Watts (W): 369  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

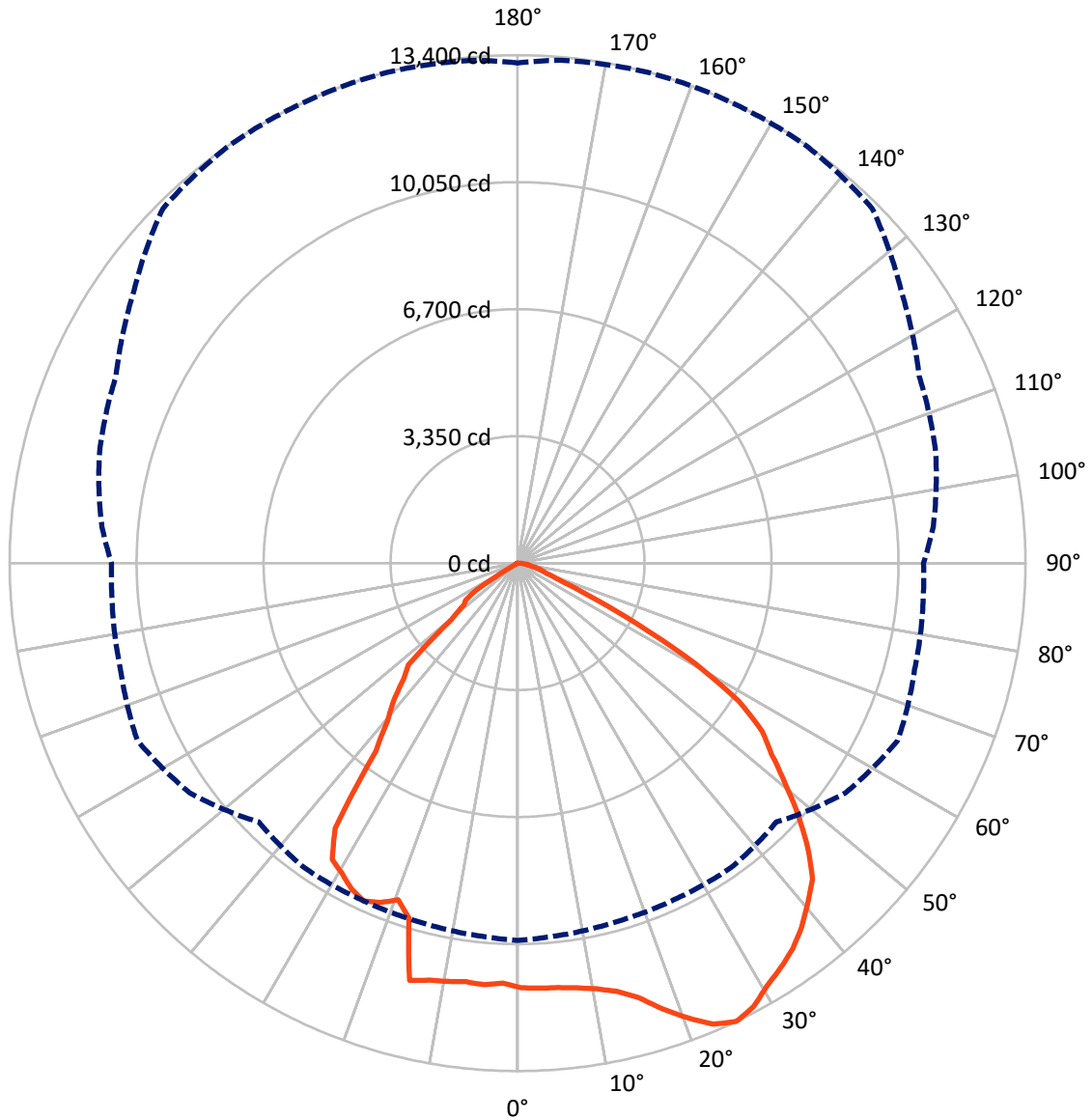
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 28 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
<b>House Side</b>	Lumens	16073.3	0.0	16073.3
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	9889.0	0.0	9889.0
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	25962.3	0.0	25962.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1074.7	4.1
10°-20°	3281.6	12.6
20°-30°	5188.0	20.0
30°-40°	5860.3	22.6
40°-50°	5488.3	21.1
50°-60°	3783.8	14.6
60°-70°	1016.6	3.9
70°-80°	211.8	0.8
80°-90°	57.3	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°	25962.3	100.0
0°-180°	25962.3	100.0



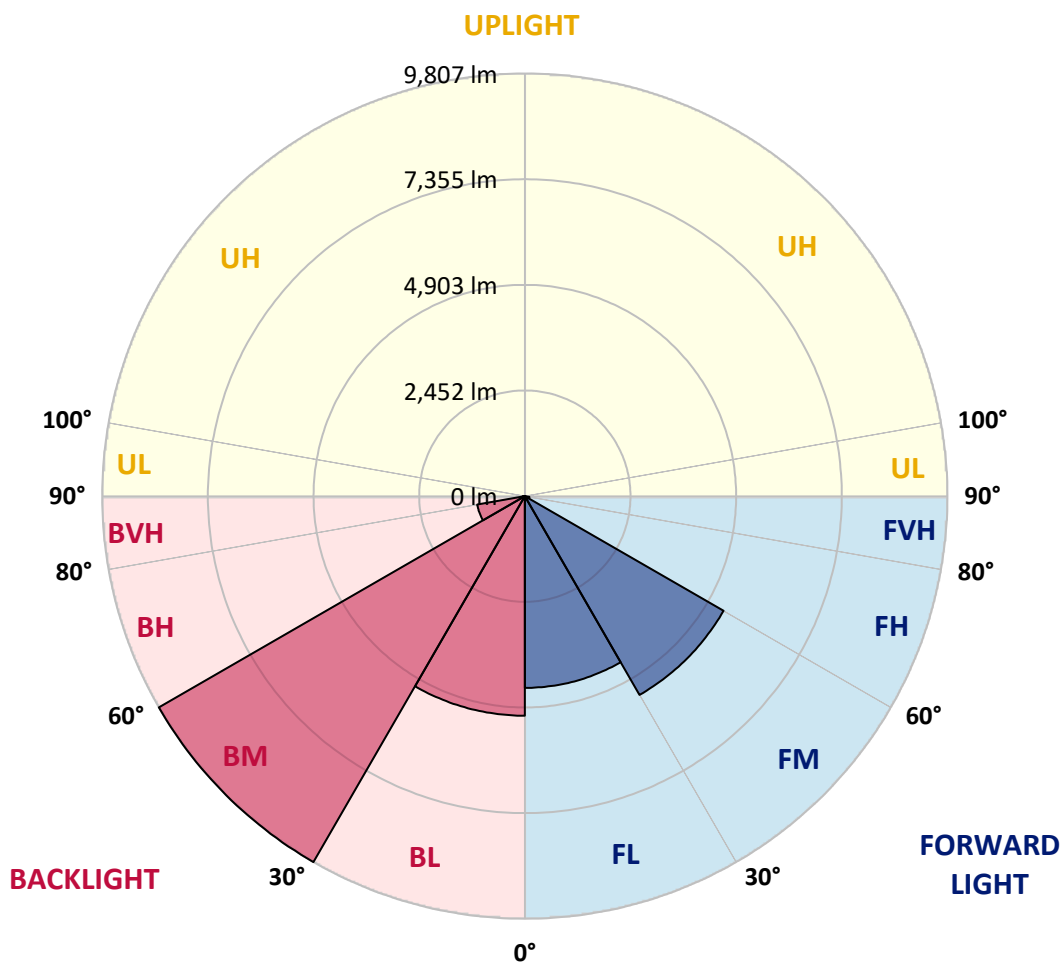
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4449.1	17.1			
FM (30°-60°)	5325.5	20.5			
FH (60°-80°)	106.7	0.4			G0/660
FVH (80°-90°)	7.7	0.0			G0/10
BL (0°-30°)	5095.2	19.6	B5		
BM (30°-60°)	9806.9	37.8	B5		
BH (60°-80°)	1121.7	4.3	B3/2500		G3/2500
BVH (80°-90°)	49.6	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°	11202.3	11202.3	11202.3	11202.3	11202.3	11202.3	11202.3	11202.3	11202.3	11202.3
2.5°	11251.9	11179.4	11110.7	11087.8	11183.2	11286.2	11221.4	11225.2	11202.3	11244.3
5°	11335.8	11236.6	11190.8	11156.5	11171.8	11278.6	11187.0	11221.4	11183.2	11232.8
7.5°	11305.3	11236.6	11190.8	11126.0	11175.6	11301.5	11213.7	11217.5	11198.5	11244.3
10°	11286.2	11236.6	11179.4	11187.0	11244.3	11351.1	11282.4	11320.6	11293.9	11320.6
12.5°	11332.0	11278.6	11248.1	11248.1	11297.7	11419.8	11385.4	11419.8	11408.3	11431.2
15°	10900.9	10950.5	11240.4	11370.2	11469.4	11591.5	11576.2	11610.5	11618.2	11652.5
17.5°	9195.3	9145.7	9122.8	9790.6	11564.8	11942.5	11931.0	11927.2	11889.1	11862.4
20°	9420.4	9401.4	9374.7	9424.3	9622.7	12125.6	12201.9	11732.6	11595.3	11583.8
22.5°	9779.1	9748.6	9649.4	9653.2	9714.2	10542.2	11824.2	11396.9	11351.1	11324.4
25°	9954.6	9893.6	9813.4	9790.6	9809.6	9657.0	10561.3	11068.7	10843.6	10740.6
27.5°	9645.6	9649.4	9584.5	9645.6	9573.1	8886.3	8500.9	10427.7	10420.1	10374.3
30°	9412.8	9401.4	9325.1	9401.4	8901.5	8134.6	7970.6	9725.7	9645.6	9584.5
32.5°	8699.3	8707.0	8928.3	9225.9	8405.5	7798.9	7302.9	8687.9	9447.2	9412.8
35°	6223.1	6238.3	7024.3	8493.3	7653.9	7131.2	7093.0	7508.9	9134.3	9149.5
37.5°	5990.3	5990.3	5971.2	6211.6	7062.5	6860.3	6936.6	6894.6	8367.4	8405.5
40°	5822.4	5788.1	5761.4	5383.7	4910.5	6669.5	6722.9	6532.1	7909.5	7917.1
42.5°	5620.2	5582.1	5589.7	4891.5	4395.4	6196.4	6047.6	5791.9	7146.4	7154.0
45°	5250.1	5315.0	5360.8	4281.0	4242.8	4426.0	5578.2	5418.0	6631.3	6772.5
47.5°	2670.8	2728.1	4185.6	3937.6	4025.3	3933.8	4712.1	4715.9	5517.2	5986.5
50°	2422.8	2407.6	2411.4	2296.9	3716.3	3182.1	3407.2	4323.0	4418.3	5089.9
52.5°	2258.8	2255.0	2022.2	1797.1	2335.1	2800.6	2472.4	3128.7	3285.1	4311.5
55°	1671.2	1793.3	1594.9	1690.3	1461.3	2243.5	2232.1	2823.5	2876.9	3456.8
57.5°	15.3	19.1	45.8	1285.8	1011.1	1121.8	1541.5	1926.8	2022.2	2693.7
60°	3.8	7.6	19.1	38.2	656.3	690.6	1030.2	1114.1	1255.3	1606.3
62.5°	0.0	0.0	7.6	19.1	34.3	282.3	328.1	358.7	553.2	820.3
65°	0.0	0.0	3.8	11.4	19.1	45.8	80.1	167.9	240.4	297.6
67.5°	0.0	0.0	3.8	7.6	15.3	22.9	45.8	64.9	103.0	175.5
70°	0.0	0.0	3.8	7.6	11.4	19.1	30.5	45.8	61.0	87.8
72.5°	0.0	0.0	3.8	7.6	7.6	22.9	22.9	34.3	45.8	57.2
75°	0.0	0.0	3.8	3.8	7.6	15.3	22.9	26.7	30.5	45.8
77.5°	0.0	0.0	3.8	7.6	11.4	15.3	19.1	30.5	26.7	26.7
80°	0.0	0.0	3.8	11.4	11.4	19.1	22.9	30.5	19.1	19.1
82.5°	0.0	0.0	3.8	15.3	11.4	38.2	38.2	42.0	15.3	15.3
85°	0.0	0.0	11.4	7.6	22.9	38.2	34.3	22.9	19.1	11.4
87.5°	0.0	0.0	3.8	3.8	7.6	11.4	26.7	22.9	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°
11202.3	0°	11202.3	11202.3	11202.3	11202.3	11202.3	11202.3	11202.3	11202.3	11202.3
11133.6	2.5°	11286.2	11236.6	11339.6	11328.2	11278.6	11255.7	11229.0	11206.1	11038.2
11141.2	5°	11290.0	11213.7	11339.6	11316.7	11309.1	11271.0	11248.1	11282.4	11129.8
11171.8	7.5°	11290.0	11213.7	11351.1	11358.7	11347.3	11316.7	11312.9	11335.8	11209.9
11225.2	10°	11366.4	11335.8	11450.3	11461.7	11446.5	11438.8	11419.8	11404.5	11271.0
11408.3	12.5°	11526.6	11465.6	11595.3	11629.6	11618.2	11637.3	11591.5	11614.4	11477.0
11595.3	15°	11721.2	11725.0	11824.2	11900.5	11892.9	11953.9	11885.3	11946.3	11847.1
11808.9	17.5°	12018.8	12060.8	12201.9	12316.4	12358.4	12404.2	12358.4	12377.5	12236.3
11572.4	20°	11705.9	11862.4	12541.5	12751.4	12839.1	12881.1	12804.8	12827.7	12686.5
11282.4	22.5°	11423.6	11625.8	12228.7	12884.9	13155.8	13239.8	13213.0	13209.2	13155.8
10710.1	25°	11007.7	11416.0	11686.9	12381.3	13232.1	13384.7	13400.0	13396.2	13316.1
10359.1	27.5°	10496.4	10588.0	11290.0	11713.6	12698.0	13277.9	13255.0	13144.4	13037.5
9630.3	30°	9844.0	10259.9	10576.5	11251.9	12007.4	12949.8	12949.8	12865.8	12755.2
9370.8	32.5°	9512.0	10050.0	10343.8	10588.0	11232.8	12583.5	12736.1	12648.4	12560.6
9168.6	35°	9336.5	9416.6	10103.4	10324.7	10870.3	11877.6	12495.7	12408.0	12343.1
8630.6	37.5°	8951.1	9138.1	9458.6	10050.0	10217.9	11301.5	12175.2	12129.4	12053.1
7932.4	40°	8092.7	8592.5	9084.7	9645.6	9821.1	10561.3	11786.1	11805.1	11702.1
7188.4	42.5°	7585.2	7924.8	8695.5	9073.2	9546.4	10084.3	11408.3	11438.8	11366.4
6810.7	45°	6990.0	7367.7	7909.5	8596.3	9241.1	9428.1	10740.6	11061.1	11000.1
6059.0	47.5°	6444.4	6749.6	7413.5	8107.9	8821.4	8794.7	9973.7	10576.5	10492.6
5482.9	50°	5669.8	6204.0	6516.9	7154.0	8218.6	8291.1	9157.2	10008.0	9939.4
4658.7	52.5°	4780.8	5452.3	6051.4	6635.1	7608.1	7779.8	8397.9	9428.1	9382.3
3559.9	55°	4178.0	4666.3	5341.7	5811.0	6867.9	7325.7	7829.4	8874.8	8851.9
2926.5	57.5°	2972.3	3914.7	4471.8	5128.0	5685.1	6513.0	6887.0	7749.3	7535.6
1621.6	60°	2014.6	2457.2	3136.3	3842.2	4216.1	5044.1	5391.3	6081.9	6024.7
969.1	62.5°	1064.5	1472.8	1957.3	2312.2	2583.1	3388.2	3533.1	4277.2	4258.1
389.2	65°	469.3	621.9	1060.7	1243.9	1522.4	1896.3	2022.2	2289.3	2224.4
190.8	67.5°	244.2	370.1	599.0	736.4	927.2	1068.3	1171.4	1255.3	1308.7
125.9	70°	148.8	270.9	370.1	511.3	637.2	751.7	831.8	946.2	1014.9
64.9	72.5°	110.6	171.7	255.6	393.0	461.7	595.2	675.3	759.3	820.3
53.4	75°	61.0	114.5	206.0	309.1	370.1	484.6	557.1	614.3	633.4
30.5	77.5°	38.2	87.8	171.7	240.4	290.0	393.0	373.9	427.3	473.1
22.9	80°	26.7	64.9	133.5	198.4	202.2	251.8	297.6	343.4	373.9
15.3	82.5°	19.1	53.4	99.2	152.6	133.5	194.6	232.7	267.1	194.6
11.4	85°	15.3	38.2	49.6	91.6	76.3	137.4	118.3	114.5	76.3
7.6	87.5°	11.4	19.1	34.3	42.0	30.5	30.5	38.2	45.8	38.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
11202.3
10923.8
11000.1
11064.9
11160.3
11354.9
11683.0
12114.2
12587.3
12984.1
13194.0
12953.6
12713.2
12488.1
12251.5
11976.8
11679.2
11358.7
11007.7
10553.7
9950.8
9412.8
8878.6
7512.7
6028.5
4261.9
2197.7
1308.7
1018.7
831.8
621.9
480.8
377.7
141.2
76.3
38.2
0.0

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