

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: P638384

Luminaire Tested: **IFLD-L-SA7D-730-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638384
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-730-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32737.8 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

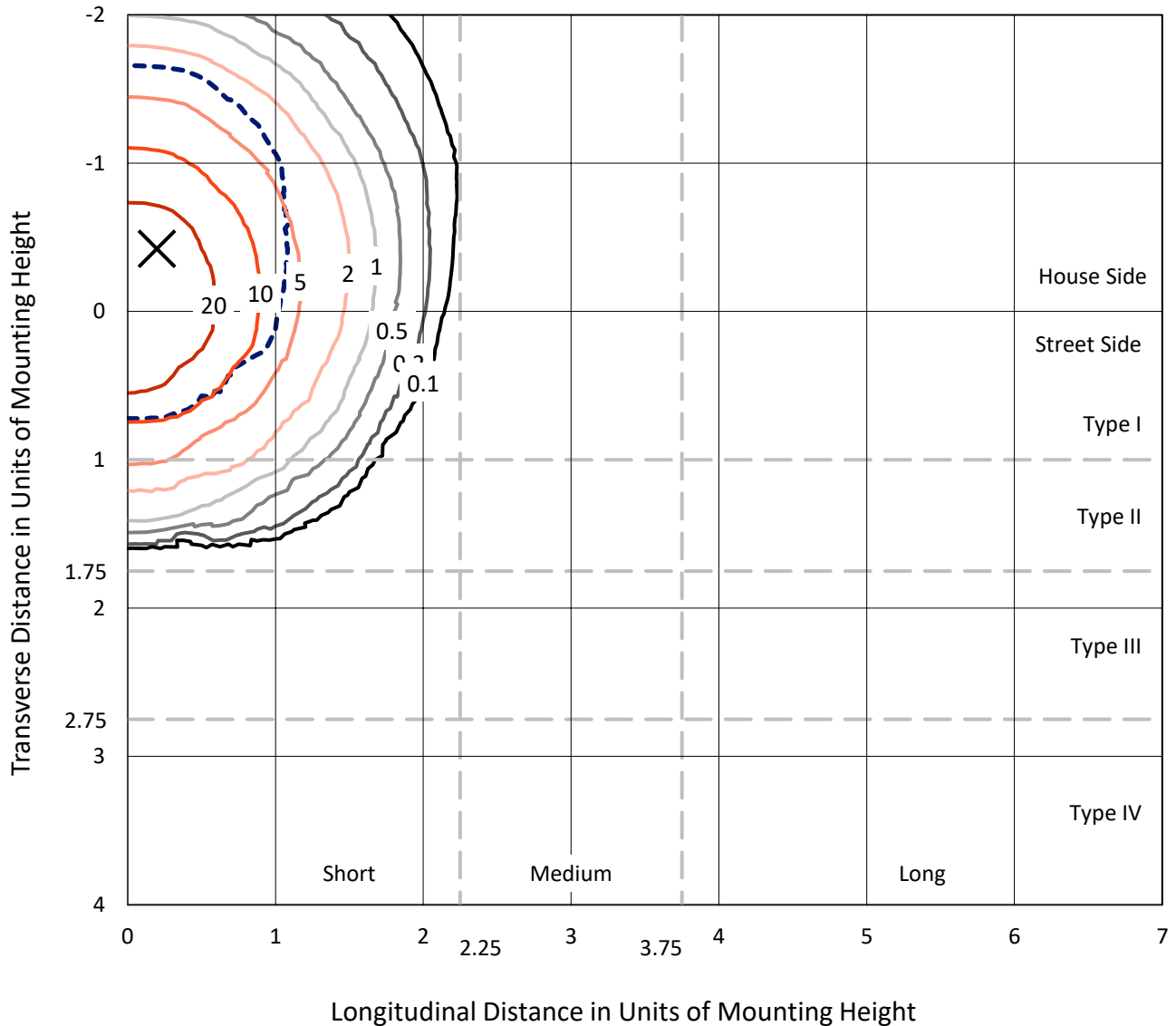
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

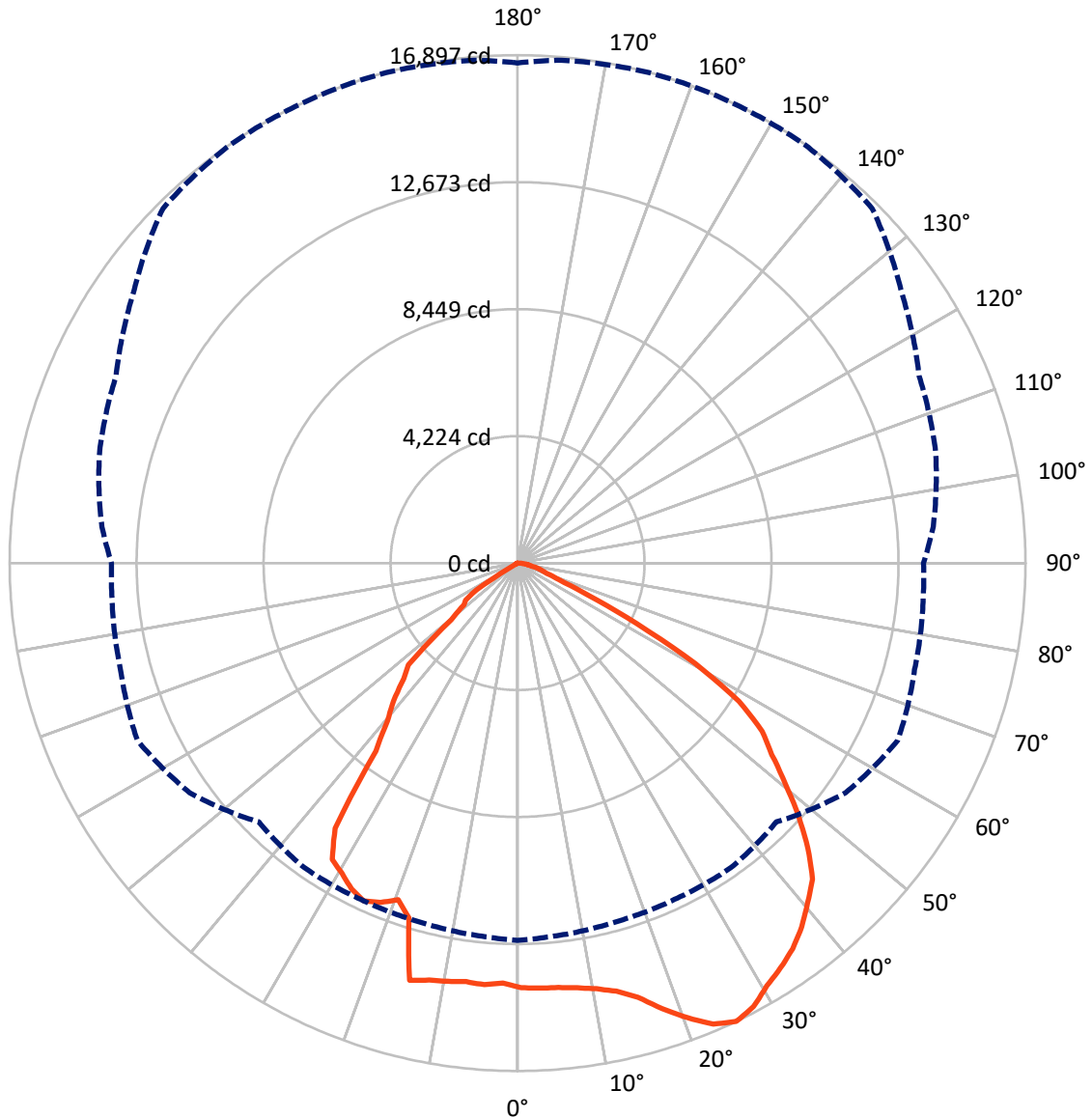
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 35.3 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	20268.1	0.0	20268.1
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	12469.8	0.0	12469.8
	% Fixture	38.1	0.0	38.1
Total	Lumens	32737.8	0.0	32737.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1355.2	4.1
10°-20°	4138.0	12.6
20°-30°	6541.9	20.0
30°-40°	7389.7	22.6
40°-50°	6920.6	21.1
50°-60°	4771.2	14.6
60°-70°	1281.9	3.9
70°-80°	267.1	0.8
80°-90°	72.3	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°	32737.8	100.0
0°-180°	32737.8	100.0



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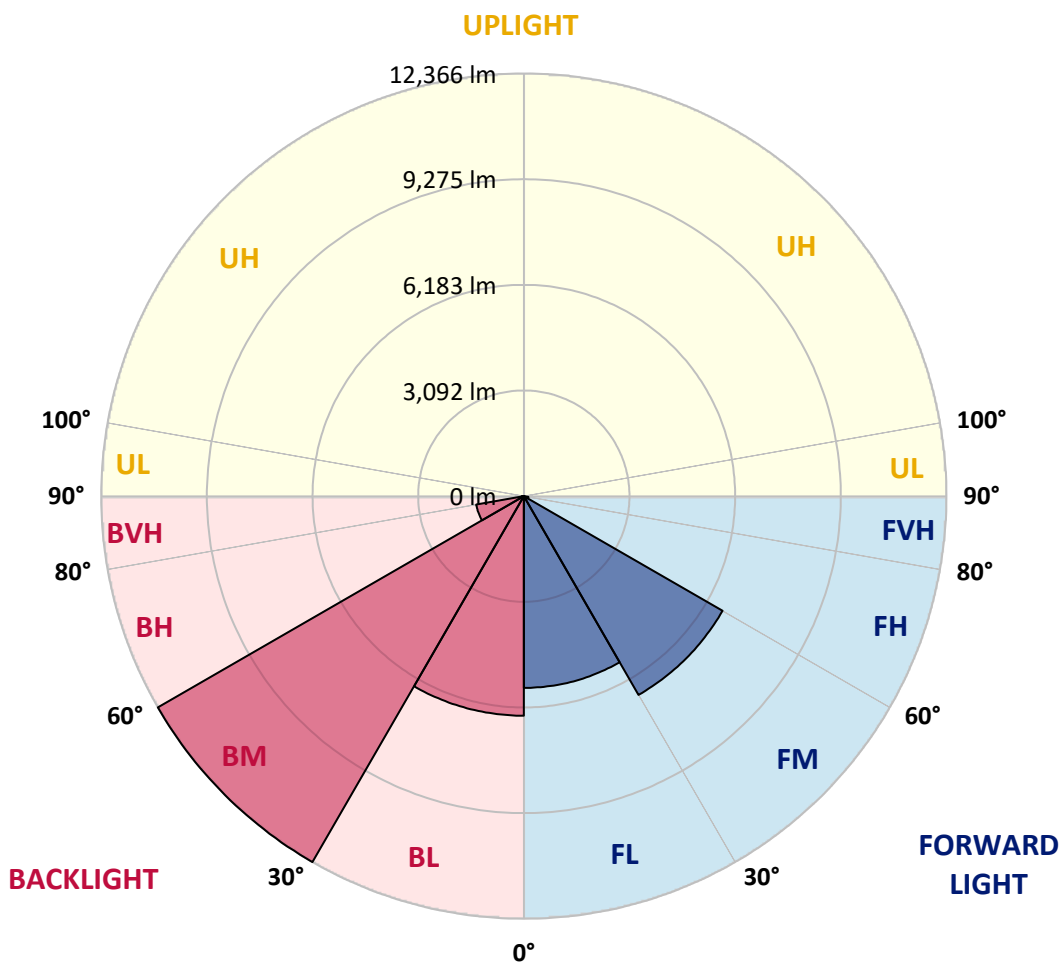
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5610.2	17.1			
FM (30°-60°)	6715.3	20.5			
FH (60°-80°)	134.6	0.4			G0/660
FVH (80°-90°)	9.7	0.0			G0/10
BL (0°-30°)	6424.9	19.6	B5		
BM (30°-60°)	12366.2	37.8	B5		
BH (60°-80°)	1414.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	62.6	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°	14125.8	14125.8	14125.8	14125.8	14125.8	14125.8	14125.8	14125.8	14125.8	14125.8
2.5°	14188.3	14096.9	14010.3	13981.5	14101.7	14231.6	14149.9	14154.7	14125.8	14178.7
5°	14294.2	14169.1	14111.4	14068.1	14087.3	14222.0	14106.6	14149.9	14101.7	14164.3
7.5°	14255.7	14169.1	14111.4	14029.6	14092.1	14250.9	14140.2	14145.0	14121.0	14178.7
10°	14231.6	14169.1	14096.9	14106.6	14178.7	14313.4	14226.8	14274.9	14241.3	14274.9
12.5°	14289.4	14222.0	14183.5	14183.5	14246.1	14400.0	14356.7	14400.0	14385.6	14414.5
15°	13745.7	13808.3	14173.9	14337.5	14462.6	14616.5	14597.3	14640.6	14650.2	14693.5
17.5°	11595.1	11532.5	11503.7	12345.6	14582.9	15059.2	15044.7	15039.9	14991.8	14958.1
20°	11879.0	11854.9	11821.2	11883.8	12133.9	15290.1	15386.3	14794.6	14621.4	14606.9
22.5°	12331.2	12292.7	12167.6	12172.4	12249.4	13293.5	14910.0	14371.2	14313.4	14279.8
25°	12552.5	12475.5	12374.5	12345.6	12369.7	12177.2	13317.5	13957.4	13673.5	13543.6
27.5°	12162.8	12167.6	12085.8	12162.8	12071.4	11205.4	10719.4	13149.1	13139.5	13081.8
30°	11869.3	11854.9	11758.7	11854.9	11224.6	10257.6	10050.7	12263.9	12162.8	12085.8
32.5°	10969.6	10979.3	11258.3	11633.6	10599.2	9834.2	9208.7	10955.2	11912.6	11869.3
35°	7847.1	7866.4	8857.5	10709.8	9651.3	8992.2	8944.1	9468.5	11518.1	11537.4
37.5°	7553.6	7553.6	7529.6	7832.7	8905.6	8650.6	8746.8	8693.9	10551.0	10599.2
40°	7342.0	7298.7	7265.0	6788.7	6192.1	8410.0	8477.4	8236.8	9973.7	9983.3
42.5°	7087.0	7038.8	7048.5	6168.0	5542.5	7813.5	7625.8	7303.5	9011.5	9021.1
45°	6620.3	6702.1	6759.8	5398.2	5350.1	5581.0	7034.0	6832.0	8361.9	8540.0
47.5°	3367.9	3440.0	5277.9	4965.2	5075.9	4960.4	5941.9	5946.7	6957.1	7548.8
50°	3055.1	3035.9	3040.7	2896.4	4686.1	4012.6	4296.4	5451.1	5571.4	6418.2
52.5°	2848.3	2843.4	2550.0	2266.1	2944.5	3531.5	3117.7	3945.2	4142.5	5436.7
55°	2107.3	2261.3	2011.1	2131.4	1842.7	2829.0	2814.6	3560.3	3627.7	4359.0
57.5°	19.2	24.1	57.7	1621.4	1275.0	1414.5	1943.7	2429.7	2550.0	3396.7
60°	4.8	9.6	24.1	48.1	827.5	870.8	1299.0	1404.9	1582.9	2025.5
62.5°	0.0	0.0	9.6	24.1	43.3	356.0	413.8	452.3	697.6	1034.4
65°	0.0	0.0	4.8	14.4	24.1	57.7	101.0	211.7	303.1	375.3
67.5°	0.0	0.0	4.8	9.6	19.2	28.9	57.7	81.8	129.9	221.3
70°	0.0	0.0	4.8	9.6	14.4	24.1	38.5	57.7	77.0	110.7
72.5°	0.0	0.0	4.8	9.6	9.6	28.9	28.9	43.3	57.7	72.2
75°	0.0	0.0	4.8	4.8	9.6	19.2	28.9	33.7	38.5	57.7
77.5°	0.0	0.0	4.8	9.6	14.4	19.2	24.1	38.5	33.7	33.7
80°	0.0	0.0	4.8	14.4	14.4	24.1	28.9	38.5	24.1	24.1
82.5°	0.0	0.0	4.8	19.2	14.4	48.1	48.1	52.9	19.2	19.2
85°	0.0	0.0	14.4	9.6	28.9	48.1	43.3	28.9	24.1	14.4
87.5°	0.0	0.0	4.8	4.8	9.6	14.4	33.7	28.9	9.6	9.6
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°
14125.8	0°	14125.8	14125.8	14125.8	14125.8	14125.8	14125.8	14125.8	14125.8	14125.8
14039.2	2.5°	14231.6	14169.1	14299.0	14284.6	14222.0	14193.2	14159.5	14130.6	13918.9
14048.8	5°	14236.5	14140.2	14299.0	14270.1	14260.5	14212.4	14183.5	14226.8	14034.4
14087.3	7.5°	14236.5	14140.2	14313.4	14323.1	14308.6	14270.1	14265.3	14294.2	14135.4
14154.7	10°	14332.7	14294.2	14438.5	14453.0	14433.7	14424.1	14400.0	14380.8	14212.4
14385.6	12.5°	14534.8	14457.8	14621.4	14664.7	14650.2	14674.3	14616.5	14645.4	14472.2
14621.4	15°	14780.1	14784.9	14910.0	15006.3	14996.6	15073.6	14987.0	15064.0	14938.9
14890.8	17.5°	15155.4	15208.3	15386.3	15530.7	15583.6	15641.3	15583.6	15607.7	15429.6
14592.5	20°	14760.9	14958.1	15814.5	16079.2	16189.8	16242.7	16146.5	16175.4	15997.4
14226.8	22.5°	14404.9	14659.8	15420.0	16247.6	16589.2	16695.0	16661.3	16656.5	16589.2
13505.2	25°	13880.4	14395.2	14736.8	15612.5	16685.4	16877.8	16897.1	16892.3	16791.2
13062.5	27.5°	13235.7	13351.2	14236.5	14770.5	16011.8	16743.1	16714.2	16574.7	16440.0
12143.6	30°	12413.0	12937.4	13336.8	14188.3	15141.0	16329.3	16329.3	16223.5	16084.0
11816.4	32.5°	11994.4	12672.8	13043.3	13351.2	14164.3	15867.5	16059.9	15949.3	15838.6
11561.4	35°	11773.1	11874.1	12740.2	13019.2	13707.2	14977.4	15756.8	15646.2	15564.4
10883.0	37.5°	11287.2	11522.9	11927.1	12672.8	12884.5	14250.9	15352.7	15294.9	15198.7
10002.6	40°	10204.6	10834.9	11455.6	12162.8	12384.1	13317.5	14861.9	14886.0	14756.1
9064.4	42.5°	9564.7	9992.9	10964.8	11441.1	12037.7	12716.1	14385.6	14424.1	14332.7
8588.1	45°	8814.2	9290.5	9973.7	10839.7	11652.8	11888.6	13543.6	13947.8	13870.8
7640.2	47.5°	8126.2	8511.1	9348.2	10223.9	11123.6	11089.9	12576.6	13336.8	13230.9
6913.8	50°	7149.5	7823.1	8217.6	9021.1	10363.4	10454.8	11547.0	12619.9	12533.3
5874.5	52.5°	6028.5	6875.3	7630.6	8366.7	9593.6	9810.1	10589.5	11888.6	11830.8
4488.9	55°	5268.3	5884.1	6735.7	7327.5	8660.2	9237.6	9872.7	11190.9	11162.1
3690.2	57.5°	3748.0	4936.3	5638.8	6466.3	7168.7	8212.8	8684.3	9771.6	9502.2
2044.8	60°	2540.3	3098.4	3954.8	4844.9	5316.4	6360.5	6798.3	7669.1	7596.9
1222.1	62.5°	1342.3	1857.1	2468.2	2915.6	3257.2	4272.4	4455.2	5393.4	5369.3
490.7	65°	591.8	784.2	1337.5	1568.5	1919.7	2391.2	2550.0	2886.7	2805.0
240.6	67.5°	307.9	466.7	755.4	928.6	1169.1	1347.1	1477.1	1582.9	1650.3
158.8	70°	187.6	341.6	466.7	644.7	803.5	947.8	1048.9	1193.2	1279.8
81.8	72.5°	139.5	216.5	322.4	495.6	582.2	750.6	851.6	957.4	1034.4
67.4	75°	77.0	144.3	259.8	389.7	466.7	611.0	702.4	774.6	798.7
38.5	77.5°	48.1	110.7	216.5	303.1	365.7	495.6	471.5	538.9	596.6
28.9	80°	33.7	81.8	168.4	250.2	255.0	317.5	375.3	433.0	471.5
19.2	82.5°	24.1	67.4	125.1	192.4	168.4	245.4	293.5	336.8	245.4
14.4	85°	19.2	48.1	62.5	115.5	96.2	173.2	149.1	144.3	96.2
9.6	87.5°	14.4	24.1	43.3	52.9	38.5	38.5	48.1	57.7	48.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
14125.8
13774.6
13870.8
13952.6
14072.9
14318.3
14732.0
15275.7
15872.3
16372.7
16637.3
16334.2
16031.1
15747.2
15448.9
15102.5
14727.2
14323.1
13880.4
13307.9
12547.7
11869.3
11195.8
9473.3
7601.8
5374.2
2771.3
1650.3
1284.6
1048.9
784.2
606.2
476.3
178.0
96.2
48.1
0.0

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