

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: P638528

Luminaire Tested: **IFLD-L-SA7C-827-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638528
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-827-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24018.3 lumens
Efficiency: N/A
Efficacy: 65.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

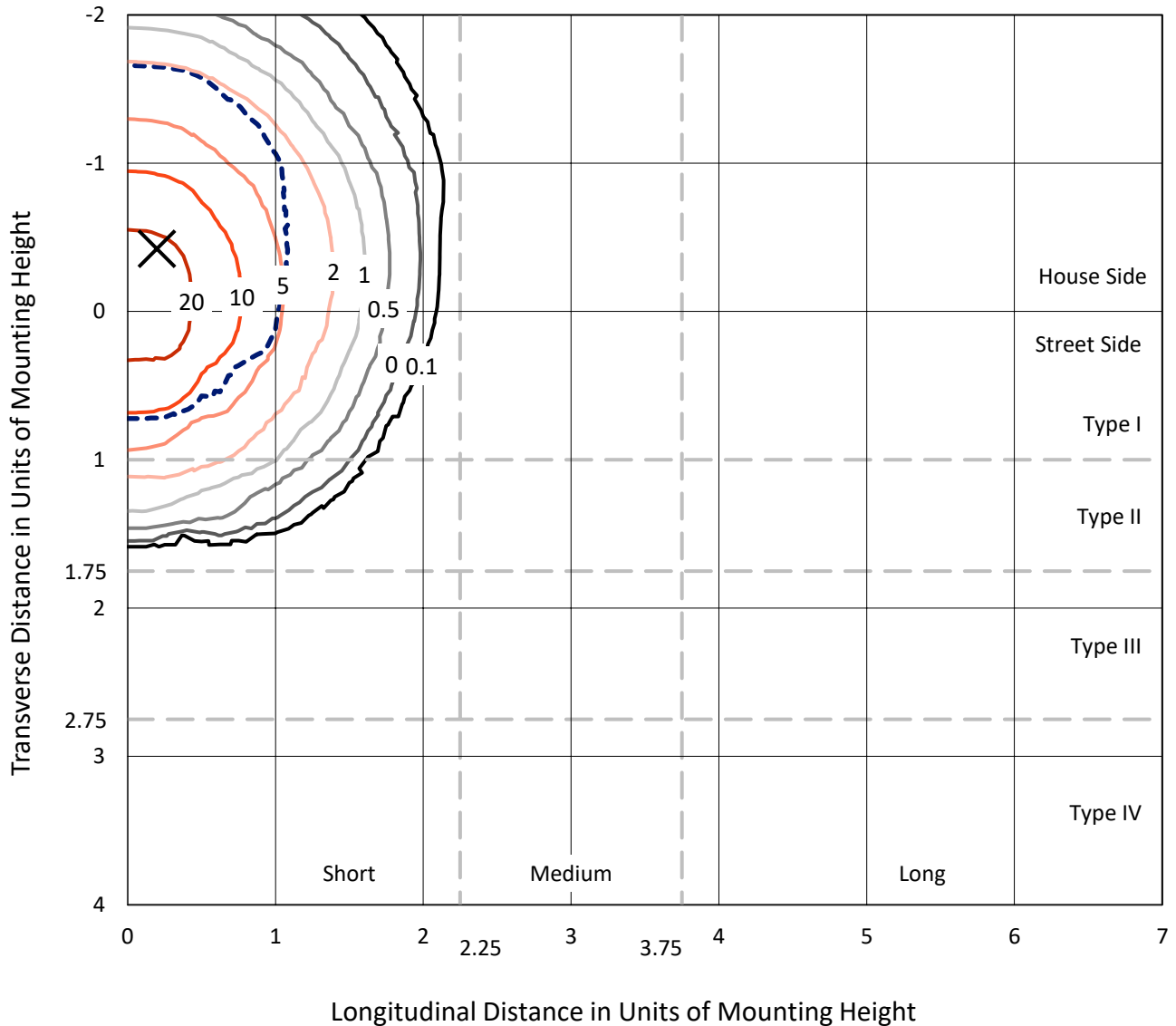
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

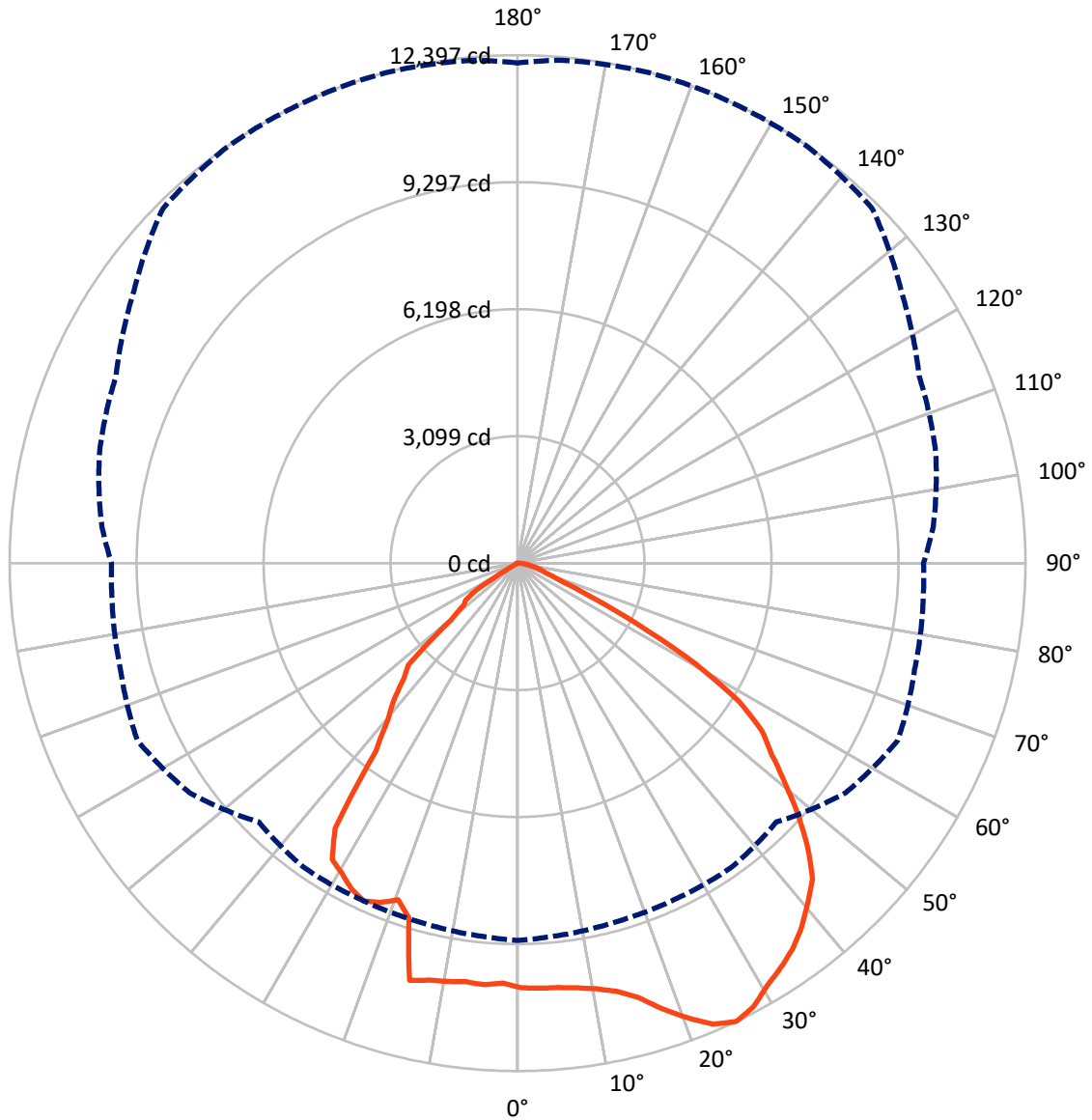
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 25.9 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	14869.8	0.0	14869.8
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	9148.5	0.0	9148.5
	% Fixture	38.1	0.0	38.1
Total	Lumens	24018.3	0.0	24018.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	994.2	4.1
10°-20°	3035.8	12.6
20°-30°	4799.5	20.0
30°-40°	5421.5	22.6
40°-50°	5077.3	21.1
50°-60°	3500.4	14.6
60°-70°	940.5	3.9
70°-80°	196.0	0.8
80°-90°	53.0	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°	24018.3	100.0
0°-180°	24018.3	100.0



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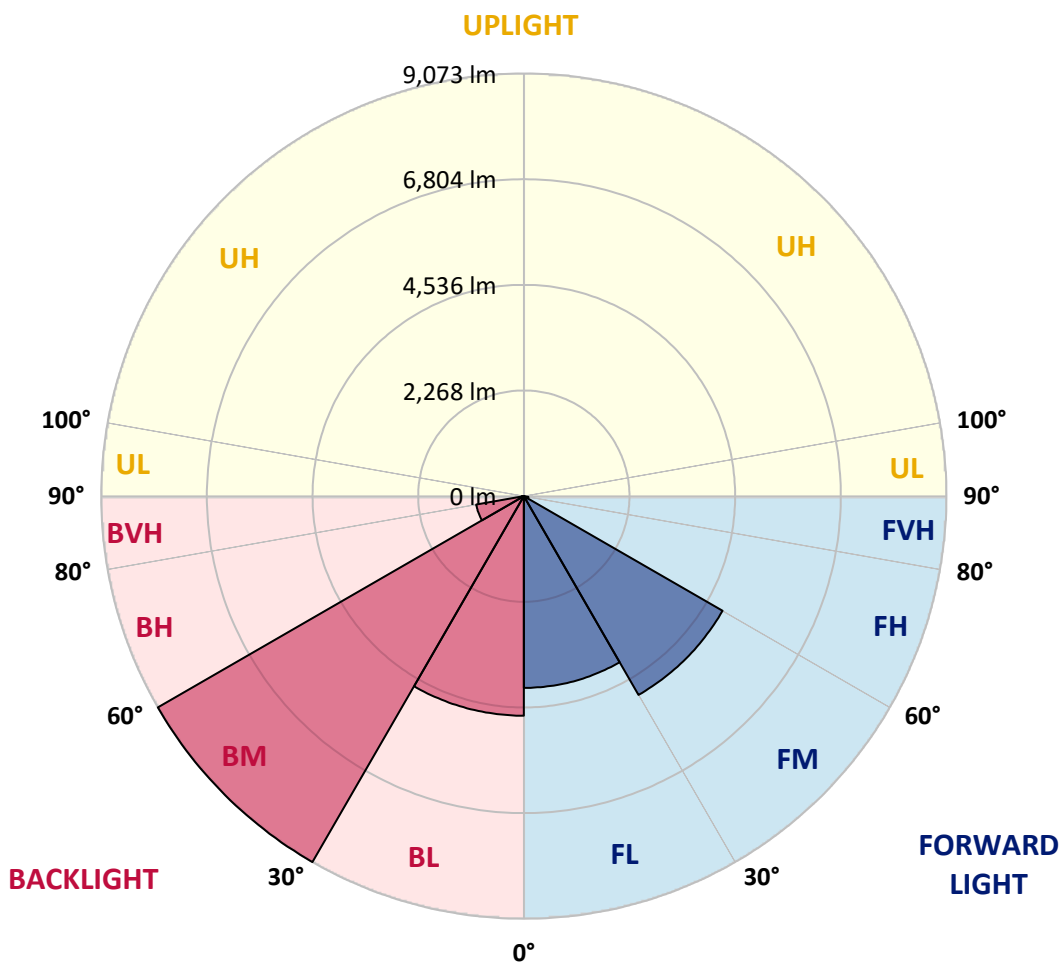
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4116.0	17.1			
FM (30°-60°)	4926.7	20.5			
FH (60°-80°)	98.7	0.4			G0/660
FVH (80°-90°)	7.1	0.0			G0/10
BL (0°-30°)	4713.6	19.6	B4/5000		
BM (30°-60°)	9072.5	37.8	B5		
BH (60°-80°)	1037.7	4.3	B3/2500		G3/2500
BVH (80°-90°)	45.9	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°	10363.5	10363.5	10363.5	10363.5	10363.5	10363.5	10363.5	10363.5	10363.5	10363.5
2.5°	10409.3	10342.3	10278.7	10257.6	10345.8	10441.1	10381.1	10384.6	10363.5	10402.3
5°	10487.0	10395.2	10352.9	10321.1	10335.2	10434.0	10349.3	10381.1	10345.8	10391.7
7.5°	10458.8	10395.2	10352.9	10292.9	10338.7	10455.2	10374.0	10377.6	10359.9	10402.3
10°	10441.1	10395.2	10342.3	10349.3	10402.3	10501.1	10437.6	10472.9	10448.2	10472.9
12.5°	10483.5	10434.0	10405.8	10405.8	10451.7	10564.7	10532.9	10564.7	10554.1	10575.2
15°	10084.6	10130.5	10398.8	10518.8	10610.5	10723.5	10709.4	10741.1	10748.2	10780.0
17.5°	8506.8	8460.9	8439.7	9057.4	10698.8	11048.2	11037.6	11034.1	10998.8	10974.1
20°	8715.0	8697.4	8672.7	8718.6	8902.1	11217.7	11288.3	10854.1	10727.0	10716.4
22.5°	9046.8	9018.6	8926.8	8930.4	8986.8	9752.8	10938.8	10543.5	10501.1	10476.4
25°	9209.2	9152.7	9078.6	9057.4	9075.1	8933.9	9770.4	10239.9	10031.7	9936.3
27.5°	8923.3	8926.8	8866.8	8923.3	8856.2	8220.9	7864.4	9646.9	9639.8	9597.5
30°	8708.0	8697.4	8626.8	8697.4	8235.0	7525.5	7373.7	8997.4	8923.3	8866.8
32.5°	8047.9	8055.0	8259.7	8535.0	7776.1	7214.9	6756.0	8037.3	8739.8	8708.0
35°	5757.1	5771.2	6498.3	7857.3	7080.8	6597.2	6561.9	6946.6	8450.3	8464.4
37.5°	5541.8	5541.8	5524.1	5746.5	6533.6	6346.6	6417.2	6378.3	7740.8	7776.1
40°	5386.5	5354.7	5330.0	4980.5	4542.8	6170.1	6219.5	6043.0	7317.2	7324.3
42.5°	5199.4	5164.1	5171.1	4525.2	4066.3	5732.4	5594.7	5358.2	6611.3	6618.3
45°	4857.0	4917.0	4959.3	3960.4	3925.1	4094.6	5160.5	5012.3	6134.8	6265.4
47.5°	2470.9	2523.8	3872.2	3642.7	3723.9	3639.2	4359.3	4362.8	5104.1	5538.2
50°	2241.4	2227.3	2230.8	2124.9	3438.0	2943.8	3152.1	3999.2	4087.5	4708.7
52.5°	2089.6	2086.1	1870.8	1662.5	2160.2	2590.9	2287.3	2894.4	3039.1	3988.7
55°	1546.0	1659.0	1475.5	1563.7	1351.9	2075.5	2064.9	2612.0	2661.5	3198.0
57.5°	14.1	17.6	42.4	1189.5	935.4	1037.8	1426.0	1782.5	1870.8	2492.0
60°	3.5	7.1	17.6	35.3	607.1	638.9	953.0	1030.7	1161.3	1486.0
62.5°	0.0	0.0	7.1	17.6	31.8	261.2	303.6	331.8	511.8	758.9
65°	0.0	0.0	3.5	10.6	17.6	42.4	74.1	155.3	222.4	275.3
67.5°	0.0	0.0	3.5	7.1	14.1	21.2	42.4	60.0	95.3	162.4
70°	0.0	0.0	3.5	7.1	10.6	17.6	28.2	42.4	56.5	81.2
72.5°	0.0	0.0	3.5	7.1	7.1	21.2	21.2	31.8	42.4	52.9
75°	0.0	0.0	3.5	3.5	7.1	14.1	21.2	24.7	28.2	42.4
77.5°	0.0	0.0	3.5	7.1	10.6	14.1	17.6	28.2	24.7	24.7
80°	0.0	0.0	3.5	10.6	10.6	17.6	21.2	28.2	17.6	17.6
82.5°	0.0	0.0	3.5	14.1	10.6	35.3	35.3	38.8	14.1	14.1
85°	0.0	0.0	10.6	7.1	21.2	35.3	31.8	21.2	17.6	10.6
87.5°	0.0	0.0	3.5	3.5	7.1	10.6	24.7	21.2	7.1	7.1
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°
10363.5	0°	10363.5	10363.5	10363.5	10363.5	10363.5	10363.5	10363.5	10363.5	10363.5
10299.9	2.5°	10441.1	10395.2	10490.5	10479.9	10434.0	10412.9	10388.2	10367.0	10211.7
10307.0	5°	10444.6	10374.0	10490.5	10469.3	10462.3	10427.0	10405.8	10437.6	10296.4
10335.2	7.5°	10444.6	10374.0	10501.1	10508.2	10497.6	10469.3	10465.8	10487.0	10370.5
10384.6	10°	10515.2	10487.0	10592.9	10603.5	10589.4	10582.3	10564.7	10550.5	10427.0
10554.1	12.5°	10663.5	10607.0	10727.0	10758.8	10748.2	10765.8	10723.5	10744.7	10617.6
10727.0	15°	10843.5	10847.0	10938.8	11009.4	11002.3	11058.8	10995.3	11051.8	10960.0
10924.7	17.5°	11118.8	11157.7	11288.3	11394.2	11433.0	11475.3	11433.0	11450.6	11320.0
10705.8	20°	10829.4	10974.1	11602.4	11796.5	11877.7	11916.6	11846.0	11867.1	11736.5
10437.6	22.5°	10568.2	10755.3	11313.0	11920.1	12170.7	12248.4	12223.6	12220.1	12170.7
9908.1	25°	10183.4	10561.1	10811.7	11454.2	12241.3	12382.5	12396.6	12393.1	12319.0
9583.4	27.5°	9710.4	9795.2	10444.6	10836.4	11747.1	12283.7	12262.5	12160.1	12061.3
8909.2	30°	9106.8	9491.6	9784.6	10409.3	11108.2	11980.1	11980.1	11902.4	11800.1
8669.2	32.5°	8799.8	9297.5	9569.3	9795.2	10391.7	11641.2	11782.4	11701.2	11620.1
8482.1	35°	8637.4	8711.5	9346.9	9551.6	10056.4	10988.2	11560.1	11478.9	11418.9
7984.4	37.5°	8280.9	8453.8	8750.3	9297.5	9452.8	10455.2	11263.5	11221.2	11150.6
7338.4	40°	7486.7	7949.1	8404.4	8923.3	9085.7	9770.4	10903.5	10921.2	10825.9
6650.1	42.5°	7017.2	7331.4	8044.4	8393.8	8831.5	9329.2	10554.1	10582.3	10515.2
6300.7	45°	6466.6	6816.0	7317.2	7952.6	8549.1	8722.1	9936.3	10232.9	10176.4
5605.3	47.5°	5961.8	6244.2	6858.4	7500.8	8160.9	8136.2	9226.9	9784.6	9706.9
5072.3	50°	5245.3	5739.4	6028.9	6618.3	7603.2	7670.2	8471.5	9258.6	9195.1
4309.9	52.5°	4422.8	5044.1	5598.2	6138.3	7038.4	7197.2	7769.1	8722.1	8679.7
3293.3	55°	3865.1	4316.9	4941.7	5375.9	6353.6	6777.2	7243.1	8210.3	8189.1
2707.3	57.5°	2749.7	3621.6	4136.9	4744.0	5259.4	6025.3	6371.3	7169.0	6971.3
1500.2	60°	1863.7	2273.2	2901.5	3554.5	3900.4	4666.4	4987.6	5626.5	5573.5
896.6	62.5°	984.8	1362.5	1810.8	2139.1	2389.7	3134.5	3268.6	3956.9	3939.2
360.0	65°	434.2	575.4	981.3	1150.7	1408.4	1754.3	1870.8	2117.9	2057.9
176.5	67.5°	225.9	342.4	554.2	681.2	857.7	988.3	1083.6	1161.3	1210.7
116.5	70°	137.7	250.6	342.4	473.0	589.5	695.4	769.5	875.4	938.9
60.0	72.5°	102.4	158.8	236.5	363.6	427.1	550.6	624.8	702.4	758.9
49.4	75°	56.5	105.9	190.6	285.9	342.4	448.3	515.3	568.3	585.9
28.2	77.5°	35.3	81.2	158.8	222.4	268.3	363.6	345.9	395.3	437.7
21.2	80°	24.7	60.0	123.5	183.5	187.1	233.0	275.3	317.7	345.9
14.1	82.5°	17.6	49.4	91.8	141.2	123.5	180.0	215.3	247.1	180.0
10.6	85°	14.1	35.3	45.9	84.7	70.6	127.1	109.4	105.9	70.6
7.1	87.5°	10.6	17.6	31.8	38.8	28.2	28.2	35.3	42.4	35.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10363.5
10105.8
10176.4
10236.4
10324.6
10504.6
10808.2
11207.1
11644.8
12011.9
12206.0
11983.6
11761.2
11553.0
11334.1
11080.0
10804.7
10508.2
10183.4
9763.4
9205.7
8708.0
8213.8
6950.1
5577.1
3942.8
2033.2
1210.7
942.5
769.5
575.4
444.8
349.4
130.6
70.6
35.3
0.0

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