

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: P638003

Luminaire Tested: **IFLD-M-SA4E-827-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638003
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-827-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22441.2 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

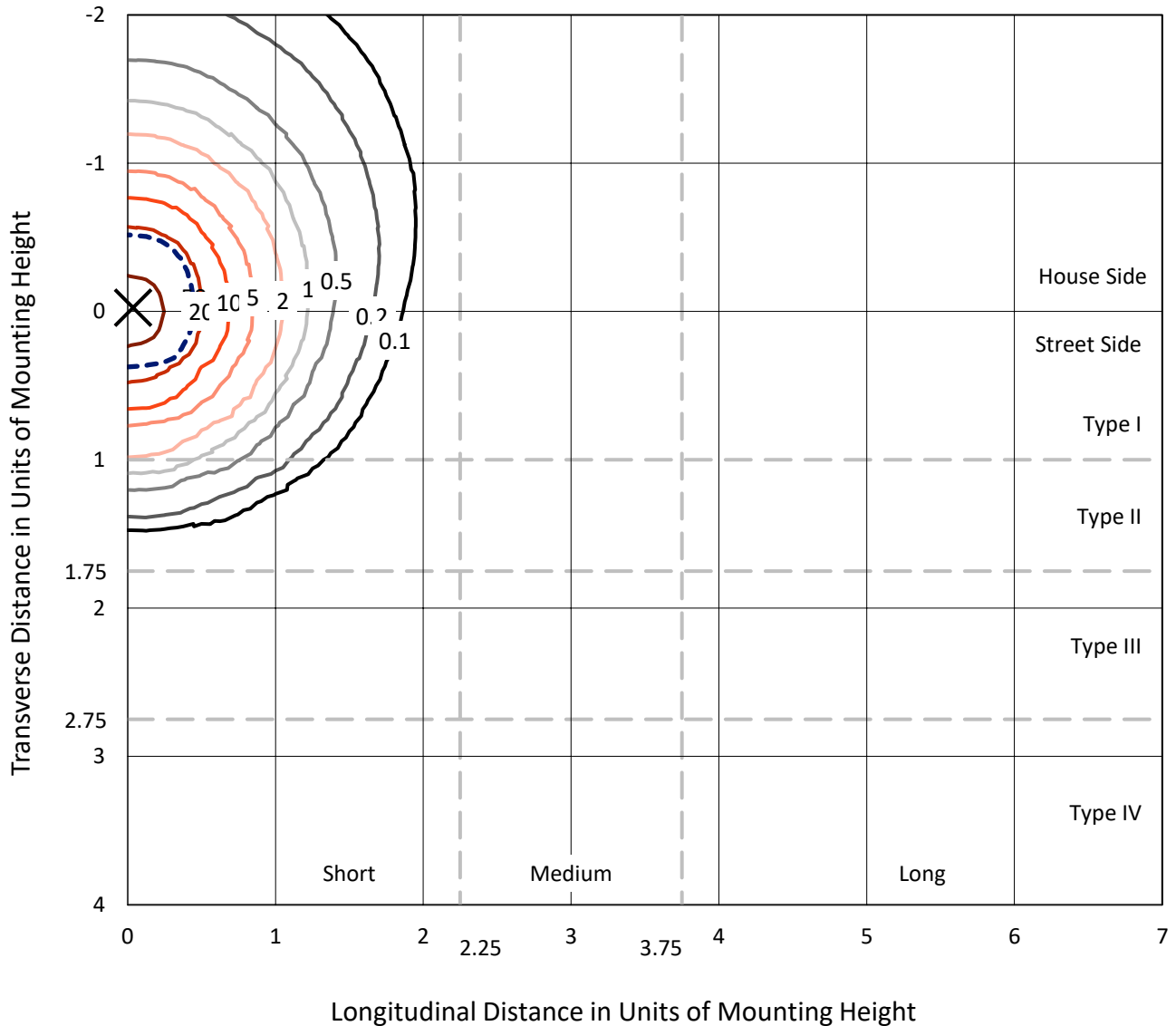
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

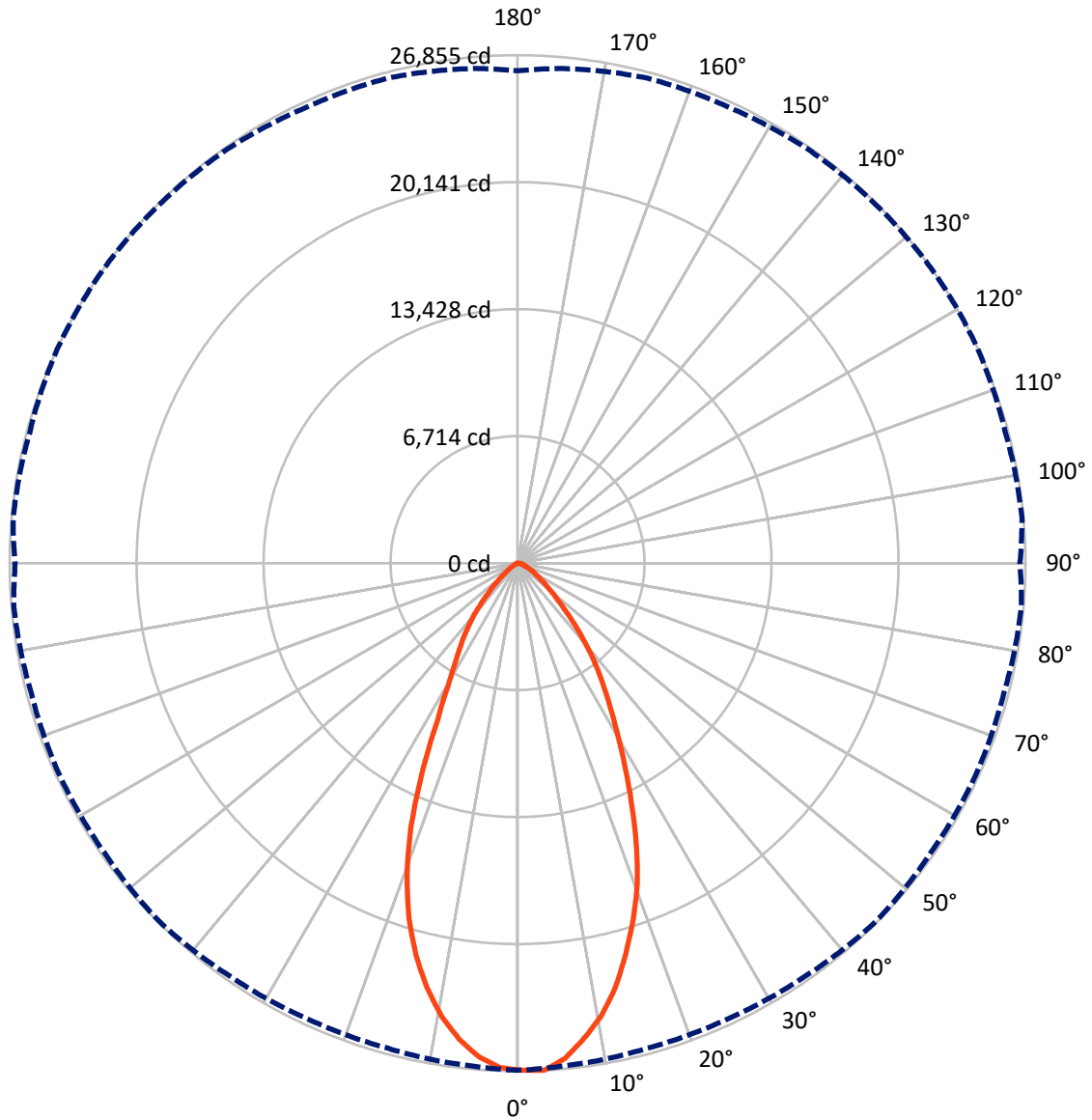
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 67 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	12734.0	0.0	12734.0
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	9707.2	0.0	9707.2
	% Fixture	43.3	0.0	43.3
Total	Lumens	22441.2	0.0	22441.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2434.6	10.8
10°-20°	5803.6	25.9
20°-30°	5910.8	26.3
30°-40°	4407.7	19.6
40°-50°	2302.7	10.3
50°-60°	968.5	4.3
60°-70°	395.6	1.8
70°-80°	166.5	0.7
80°-90°	51.3	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°	22441.2	100.0
0°-180°	22441.2	100.0



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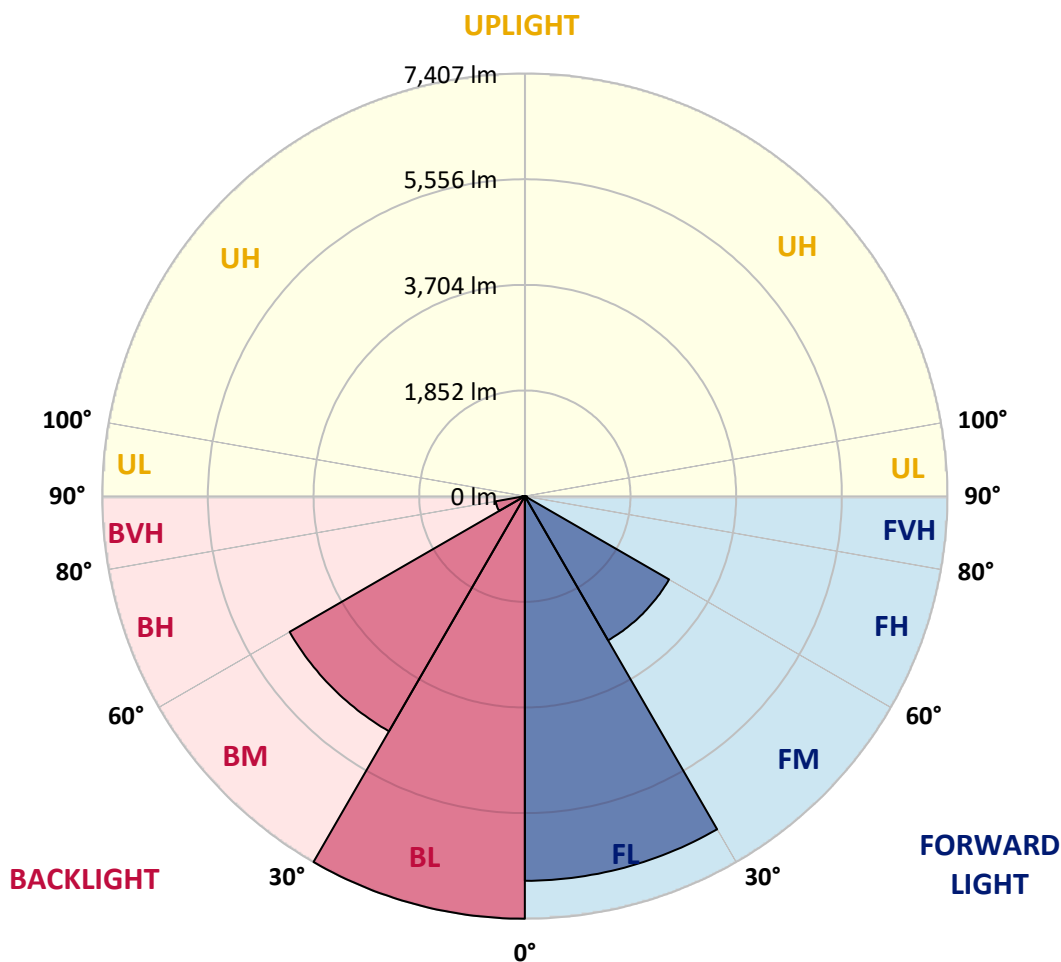
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6741.6	30.0			
FM (30°-60°)	2918.6	13.0			
FH (60°-80°)	42.2	0.2			G0/660
FVH (80°-90°)	4.8	0.0			G0/10
BL (0°-30°)	7407.4	33.0	B5		
BM (30°-60°)	4760.3	21.2	B3/5000		
BH (60°-80°)	519.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	46.5	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°	26811.9	26811.9	26811.9	26811.9	26811.9	26811.9	26811.9	26811.9	26811.9	26811.9
2.5°	26814.7	26705.2	26549.5	26535.1	26615.8	26791.7	26679.3	26685.0	26615.8	26734.0
5°	26393.9	26290.1	26183.4	26042.2	26160.4	26235.3	26177.7	26114.2	26024.9	26140.2
7.5°	25598.2	25540.6	25382.0	25318.6	25390.7	25474.3	25350.3	25333.0	25209.1	25359.0
10°	24381.8	24358.7	24203.0	24165.6	24229.0	24355.8	24301.0	24289.5	24211.7	24197.3
12.5°	23119.1	23029.8	22836.6	22825.1	22920.2	23110.5	22963.5	22822.2	22865.5	22902.9
15°	19867.5	19772.3	20250.9	21003.2	21398.2	21383.8	21427.0	21256.9	21205.0	21222.3
17.5°	15794.2	15632.8	15805.8	16970.4	18847.0	19936.7	19636.9	19270.8	19074.7	18945.0
20°	13632.2	13640.9	13609.2	13909.0	15079.3	17564.2	17492.1	16785.9	16529.3	16422.7
22.5°	12317.7	12268.7	12199.5	12294.7	12608.9	14067.5	15044.7	14396.1	14306.8	14188.6
25°	11029.2	11029.2	10945.6	11040.7	11130.0	11150.2	12130.3	12395.5	12222.6	12222.6
27.5°	9913.6	9855.9	9818.4	9861.7	9743.5	9175.6	9299.5	10657.3	10539.1	10467.0
30°	8806.6	8789.3	8725.9	8783.5	8345.4	7705.4	7446.0	8994.0	9117.9	9092.0
32.5°	7270.1	7339.3	7621.8	7711.2	6961.7	6445.7	6197.8	7466.2	7962.0	7941.8
35°	4940.9	4998.6	5321.4	6388.0	5771.1	5402.2	5330.1	5938.3	6754.1	6832.0
37.5°	3934.9	3926.2	4018.5	4208.7	4638.2	4548.9	4528.7	4687.2	5508.8	5543.4
40°	3243.0	3231.5	3228.6	3072.9	2966.3	3782.1	3727.3	3632.2	4344.2	4413.4
42.5°	2614.6	2626.1	2634.8	2294.6	2139.0	2917.3	2885.6	2787.6	3407.3	3488.0
45°	2052.5	2049.6	2066.9	1709.4	1666.2	1865.1	2156.2	2078.4	2571.4	2657.8
47.5°	1063.7	1101.2	1334.7	1323.2	1343.3	1323.2	1631.6	1611.4	1934.3	2072.7
50°	714.9	726.4	746.6	749.5	1057.9	974.3	1107.0	1254.0	1354.9	1568.2
52.5°	553.5	562.1	510.2	478.5	648.6	720.7	726.4	867.7	945.5	1161.7
55°	308.4	345.9	371.9	374.7	357.5	533.3	530.4	642.8	703.4	847.5
57.5°	40.4	49.0	74.9	242.1	239.3	296.9	371.9	467.0	501.6	619.8
60°	2.9	5.8	8.6	37.5	158.5	173.0	253.7	291.2	348.8	435.3
62.5°	0.0	0.0	2.9	8.6	31.7	100.9	132.6	152.8	204.7	285.4
65°	0.0	0.0	2.9	5.8	11.5	37.5	51.9	83.6	121.1	175.8
67.5°	0.0	0.0	2.9	5.8	8.6	14.4	23.1	37.5	63.4	106.7
70°	0.0	0.0	2.9	5.8	8.6	11.5	17.3	23.1	34.6	57.7
72.5°	0.0	0.0	2.9	2.9	5.8	14.4	14.4	17.3	23.1	31.7
75°	0.0	0.0	2.9	5.8	8.6	14.4	14.4	14.4	17.3	20.2
77.5°	0.0	0.0	2.9	5.8	8.6	14.4	11.5	14.4	14.4	14.4
80°	0.0	0.0	2.9	5.8	8.6	14.4	17.3	14.4	11.5	11.5
82.5°	0.0	0.0	2.9	8.6	8.6	20.2	20.2	20.2	8.6	8.6
85°	0.0	0.0	5.8	8.6	14.4	23.1	23.1	17.3	8.6	5.8
87.5°	0.0	0.0	2.9	5.8	5.8	11.5	17.3	14.4	5.8	2.9
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°
26811.9	0°	26811.9	26811.9	26811.9	26811.9	26811.9	26811.9	26811.9	26811.9	26811.9
26561.1	2.5°	26774.4	26702.3	26837.8	26855.1	26797.4	26725.4	26558.2	26543.8	26252.6
25973.0	5°	26267.0	26148.8	26235.3	26293.0	26272.8	26195.0	26125.8	26062.4	25800.0
25018.8	7.5°	25321.5	25278.3	25318.6	25361.9	25445.5	25361.9	25333.0	25266.7	25007.3
24079.1	10°	24272.2	24191.5	24344.3	24324.1	24301.0	24278.0	24156.9	24168.4	23862.9
22799.2	12.5°	22983.7	22848.2	22995.2	23012.5	22995.2	22914.5	22779.0	22836.6	22557.0
21069.5	15°	21251.2	21236.7	21343.4	21412.6	21461.6	21375.1	21329.0	21357.8	21190.6
18844.1	17.5°	19123.7	19311.1	19659.9	19778.1	19781.0	19870.4	19844.4	19809.8	19685.9
16379.4	20°	16621.6	16981.9	17518.1	18068.7	18227.2	18152.3	18117.7	18181.1	17996.6
14064.6	22.5°	14312.5	14621.0	15243.6	16047.9	16512.0	16558.1	16549.5	16494.7	16422.7
12211.1	25°	12352.3	12626.2	13222.9	13958.0	14848.7	14981.3	14987.1	14969.8	14906.4
10530.4	27.5°	10697.6	11029.2	11357.8	12015.0	12963.4	13511.1	13442.0	13421.8	13398.7
9112.2	30°	9198.6	9616.6	9925.1	10334.4	11184.8	11925.7	11997.7	11963.1	11908.4
7938.9	32.5°	8011.0	8258.9	8650.9	8927.7	9538.8	10377.7	10654.4	10628.5	10579.5
6881.0	35°	6979.0	7077.0	7385.4	7693.9	8100.3	8913.3	9322.6	9265.0	9256.3
5606.8	37.5°	5748.1	6076.7	6246.8	6558.1	6843.5	7474.8	8039.8	8013.9	8016.7
4508.5	40°	4641.1	4831.4	5168.7	5431.0	5693.3	6154.5	6783.0	6800.3	6794.5
3490.9	42.5°	3563.0	3747.5	4102.1	4387.4	4620.9	4906.3	5505.9	5526.1	5552.1
2718.4	45°	2781.8	2900.0	3159.4	3456.3	3704.3	3877.2	4332.7	4462.4	4465.3
2107.2	47.5°	2159.1	2294.6	2479.1	2764.5	3006.6	3130.6	3462.1	3637.9	3629.3
1617.2	50°	1695.0	1819.0	1968.9	2193.7	2456.0	2554.1	2799.1	2972.0	2963.4
1219.4	52.5°	1297.2	1455.8	1588.4	1761.3	2017.9	2101.5	2277.3	2476.2	2447.4
893.6	55°	983.0	1144.4	1268.4	1412.5	1646.0	1752.7	1873.7	2032.3	2038.1
691.8	57.5°	740.9	908.0	1020.5	1167.5	1343.3	1461.5	1553.8	1723.8	1721.0
472.8	60°	530.4	674.5	810.0	962.8	1098.3	1233.8	1297.2	1458.6	1464.4
334.4	62.5°	383.4	518.9	648.6	781.2	902.3	1034.9	1092.5	1219.4	1236.7
219.1	65°	268.1	363.2	513.1	614.0	749.5	847.5	922.5	1032.0	1052.2
129.7	67.5°	173.0	262.3	406.5	495.8	619.8	703.4	781.2	867.7	893.6
83.6	70°	103.8	198.9	302.7	397.8	510.2	585.2	660.1	735.1	749.5
40.4	72.5°	66.3	138.4	219.1	322.9	409.3	490.1	556.4	611.1	567.9
25.9	75°	37.5	95.1	173.0	253.7	331.5	409.3	464.1	492.9	394.9
17.3	77.5°	23.1	69.2	141.3	204.7	256.6	328.6	363.2	380.5	282.5
11.5	80°	14.4	51.9	118.2	167.2	167.2	242.1	282.5	296.9	204.7
8.6	82.5°	11.5	37.5	92.2	126.8	112.4	181.6	222.0	224.8	144.1
5.8	85°	8.6	28.8	57.7	83.6	77.8	126.8	129.7	144.1	95.1
5.8	87.5°	5.8	17.3	34.6	49.0	43.2	60.5	69.2	77.8	51.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
26811.9
26024.9
25589.6
24952.5
23759.1
22476.3
20988.8
19501.4
17864.0
16284.3
14693.0
13263.2
11839.2
10449.7
9161.2
7924.5
6693.6
5465.6
4390.3
3597.6
2963.4
2450.3
2038.1
1715.2
1450.0
1230.9
1046.4
890.7
738.0
527.5
374.7
265.2
190.3
132.6
86.5
46.1
0.0

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