

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: P638009

Luminaire Tested: **IFLD-L-SA8A-827-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638009
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-827-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21233.6 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

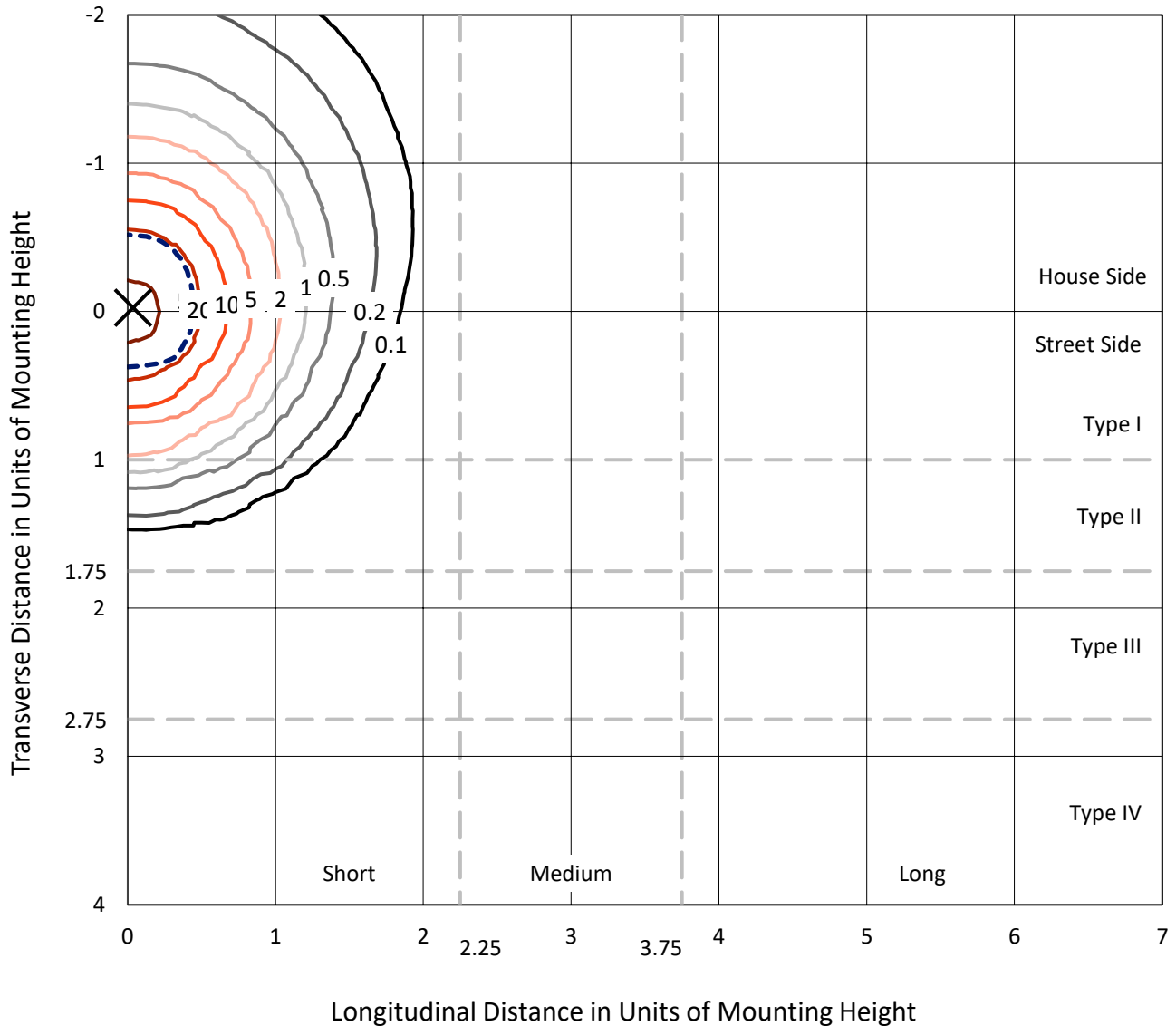
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

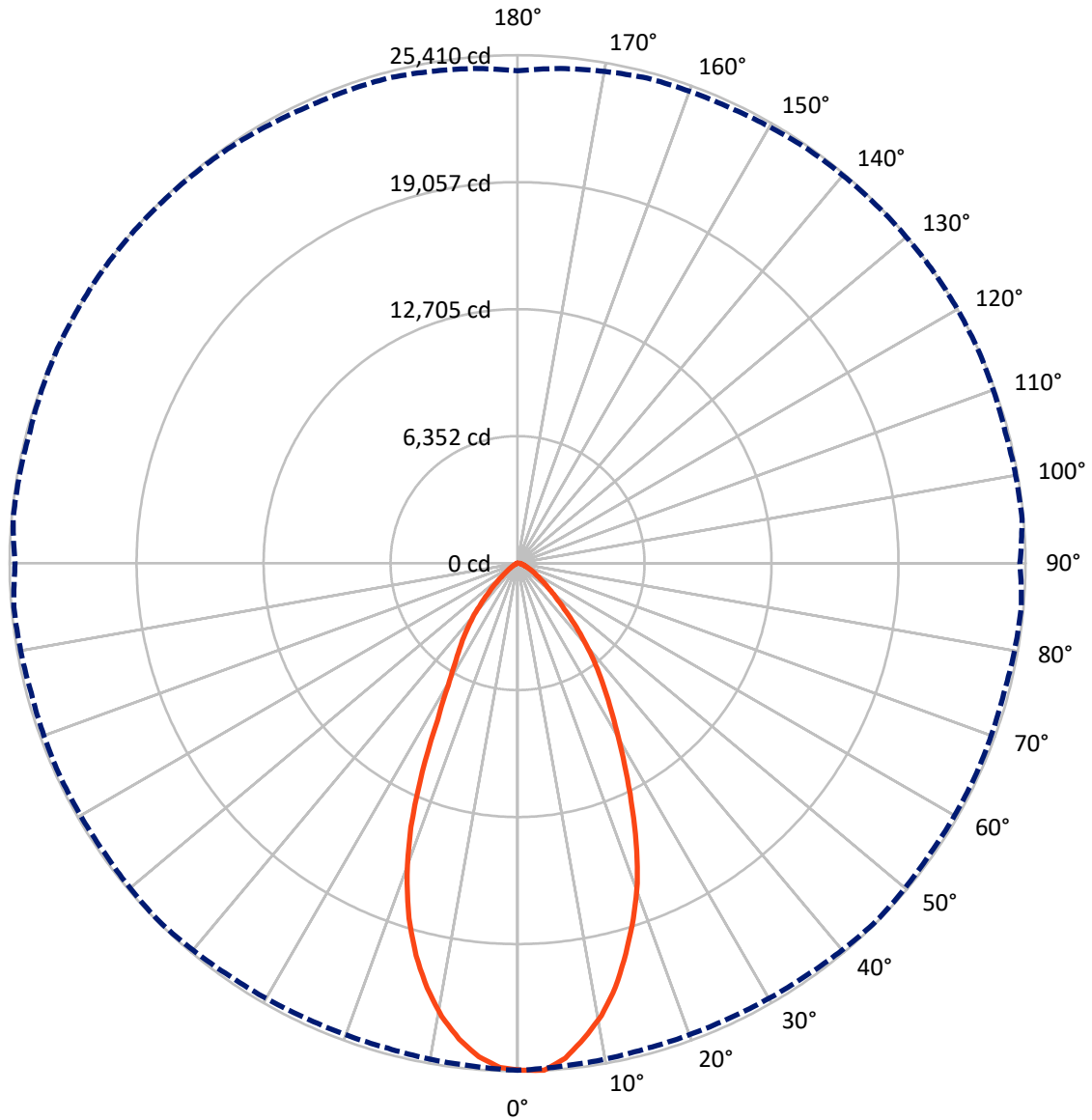
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 63.4 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	12048.8	0.0	12048.8
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	9184.8	0.0	9184.8
	% Fixture	43.3	0.0	43.3
Total	Lumens	21233.6	0.0	21233.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2303.6	10.8
10°-20°	5491.3	25.9
20°-30°	5592.7	26.3
30°-40°	4170.5	19.6
40°-50°	2178.8	10.3
50°-60°	916.4	4.3
60°-70°	374.3	1.8
70°-80°	157.5	0.7
80°-90°	48.5	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°	21233.6	100.0
0°-180°	21233.6	100.0



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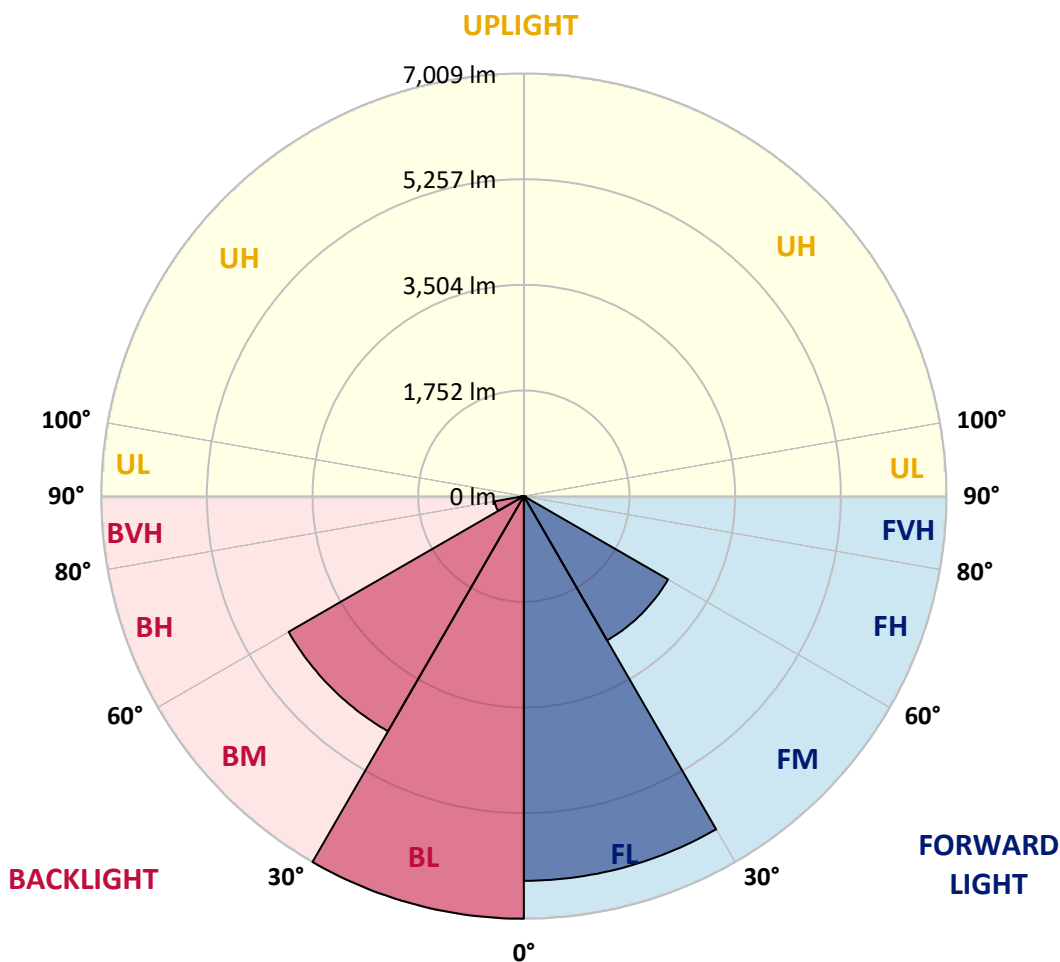
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6378.8	30.0			
FM (30°-60°)	2761.5	13.0			
FH (60°-80°)	40.0	0.2			G0/660
FVH (80°-90°)	4.5	0.0			G0/10
BL (0°-30°)	7008.8	33.0	B5		
BM (30°-60°)	4504.2	21.2	B3/5000		
BH (60°-80°)	491.8	2.3	B1/500		G1/500
BVH (80°-90°)	44.0	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-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	25369.0	25369.0	25369.0	25369.0	25369.0	25369.0	25369.0	25369.0	25369.0	25369.0
2.5°	25371.7	25268.1	25120.8	25107.1	25183.5	25349.9	25243.5	25249.0	25183.5	25295.3
5°	24973.5	24875.3	24774.4	24640.7	24752.5	24823.5	24768.9	24708.9	24624.4	24733.5
7.5°	24220.7	24166.1	24016.1	23956.1	24024.3	24103.4	23986.1	23969.7	23852.5	23994.3
10°	23069.6	23047.8	22900.5	22865.1	22925.1	23045.1	22993.3	22982.4	22908.7	22895.1
12.5°	21875.0	21790.4	21607.7	21596.8	21686.8	21866.8	21727.7	21594.0	21635.0	21670.4
15°	18798.3	18708.3	19161.1	19873.0	20246.6	20233.0	20273.9	20113.0	20063.9	20080.2
17.5°	14944.3	14791.5	14955.2	16057.1	17832.7	18863.8	18580.1	18233.7	18048.2	17925.5
20°	12898.6	12906.8	12876.8	13160.4	14267.8	16619.0	16550.8	15882.5	15639.8	15538.9
22.5°	11654.8	11608.5	11543.0	11633.0	11930.3	13310.5	14235.1	13621.4	13536.8	13425.0
25°	10435.6	10435.6	10356.5	10446.5	10531.1	10550.2	11477.5	11728.5	11564.8	11564.8
27.5°	9380.1	9325.5	9290.0	9331.0	9219.1	8681.8	8799.1	10083.8	9971.9	9903.7
30°	8332.7	8316.3	8256.3	8310.9	7896.3	7290.8	7045.3	8510.0	8627.3	8602.7
32.5°	6878.9	6944.4	7211.7	7296.2	6587.0	6098.8	5864.2	7064.4	7533.5	7514.4
35°	4675.0	4729.6	5035.1	6044.3	5460.6	5111.4	5043.2	5618.8	6390.7	6464.3
37.5°	3723.1	3714.9	3802.2	3982.2	4388.6	4304.1	4285.0	4435.0	5212.4	5245.1
40°	3068.5	3057.6	3054.9	2907.6	2806.7	3578.6	3526.7	3436.7	4110.4	4175.9
42.5°	2473.9	2484.8	2493.0	2171.1	2023.8	2760.3	2730.3	2637.5	3224.0	3300.3
45°	1942.0	1939.3	1955.7	1617.4	1576.5	1764.7	2040.2	1966.6	2433.0	2514.8
47.5°	1006.5	1041.9	1262.9	1251.9	1271.0	1251.9	1543.8	1524.7	1830.2	1961.1
50°	676.4	687.3	706.4	709.2	1001.0	921.9	1047.4	1186.5	1282.0	1483.8
52.5°	523.7	531.9	482.8	452.8	613.7	681.9	687.3	821.0	894.6	1099.2
55°	291.8	327.3	351.9	354.6	338.2	504.6	501.9	608.2	665.5	801.9
57.5°	38.2	46.4	70.9	229.1	226.4	280.9	351.9	441.9	474.6	586.4
60°	2.7	5.5	8.2	35.5	150.0	163.7	240.0	275.5	330.0	411.9
62.5°	0.0	0.0	2.7	8.2	30.0	95.5	125.5	144.6	193.7	270.0
65°	0.0	0.0	2.7	5.5	10.9	35.5	49.1	79.1	114.6	166.4
67.5°	0.0	0.0	2.7	5.5	8.2	13.6	21.8	35.5	60.0	100.9
70°	0.0	0.0	2.7	5.5	8.2	10.9	16.4	21.8	32.7	54.6
72.5°	0.0	0.0	2.7	2.7	5.5	13.6	13.6	16.4	21.8	30.0
75°	0.0	0.0	2.7	5.5	8.2	13.6	13.6	13.6	16.4	19.1
77.5°	0.0	0.0	2.7	5.5	8.2	13.6	10.9	13.6	13.6	13.6
80°	0.0	0.0	2.7	5.5	8.2	13.6	16.4	13.6	10.9	10.9
82.5°	0.0	0.0	2.7	8.2	8.2	19.1	19.1	19.1	8.2	8.2
85°	0.0	0.0	5.5	8.2	13.6	21.8	21.8	16.4	8.2	5.5
87.5°	0.0	0.0	2.7	5.5	5.5	10.9	16.4	13.6	5.5	2.7
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°
25369.0	0°	25369.0	25369.0	25369.0	25369.0	25369.0	25369.0	25369.0	25369.0	25369.0
25131.7	2.5°	25333.5	25265.3	25393.5	25409.9	25355.3	25287.1	25129.0	25115.3	24839.8
24575.3	5°	24853.5	24741.6	24823.5	24878.0	24858.9	24785.3	24719.8	24659.8	24411.6
23672.4	7.5°	23958.8	23917.9	23956.1	23997.0	24076.1	23997.0	23969.7	23907.0	23661.5
22783.3	10°	22966.0	22889.6	23034.2	23015.1	22993.3	22971.5	22856.9	22867.8	22578.7
21572.2	12.5°	21746.8	21618.6	21757.7	21774.1	21757.7	21681.3	21553.1	21607.7	21343.1
19935.7	15°	20107.5	20093.9	20194.8	20260.3	20306.6	20224.8	20181.2	20208.4	20050.2
17830.0	17.5°	18094.6	18271.9	18601.9	18713.7	18716.5	18801.0	18776.5	18743.7	18626.5
15498.0	20°	15727.1	16068.0	16575.3	17096.3	17246.3	17175.4	17142.7	17202.7	17028.1
13307.7	22.5°	13542.3	13834.2	14423.3	15184.3	15623.4	15667.1	15658.9	15607.1	15538.9
11553.9	25°	11687.6	11946.7	12511.3	13206.8	14049.6	14175.1	14180.6	14164.2	14104.2
9963.8	27.5°	10122.0	10435.6	10746.6	11368.4	12265.8	12784.0	12718.6	12699.5	12677.7
8621.8	30°	8703.6	9099.1	9391.0	9778.3	10582.9	11283.9	11352.1	11319.3	11267.5
7511.7	32.5°	7579.9	7814.4	8185.4	8447.2	9025.5	9819.2	10081.0	10056.5	10010.1
6510.7	35°	6603.4	6696.1	6988.0	7279.8	7664.4	8433.6	8820.9	8766.4	8758.2
5305.1	37.5°	5438.7	5749.7	5910.6	6205.2	6475.2	7072.5	7607.1	7582.6	7585.3
4265.9	40°	4391.4	4571.4	4890.5	5138.7	5386.9	5823.3	6417.9	6434.3	6428.8
3303.1	42.5°	3371.3	3545.8	3881.3	4151.3	4372.3	4642.3	5209.6	5228.7	5253.3
2572.1	45°	2632.1	2743.9	2989.4	3270.3	3504.9	3668.6	4099.5	4222.3	4225.0
1993.8	47.5°	2042.9	2171.1	2345.7	2615.7	2844.8	2962.1	3275.8	3442.2	3434.0
1530.2	50°	1603.8	1721.1	1862.9	2075.7	2323.9	2416.6	2648.5	2812.1	2803.9
1153.8	52.5°	1227.4	1377.4	1502.9	1666.5	1909.3	1988.4	2154.8	2343.0	2315.7
845.5	55°	930.1	1082.8	1200.1	1336.5	1557.4	1658.4	1772.9	1922.9	1928.4
654.6	57.5°	701.0	859.2	965.6	1104.7	1271.0	1382.9	1470.2	1631.1	1628.3
447.3	60°	501.9	638.2	766.4	911.0	1039.2	1167.4	1227.4	1380.1	1385.6
316.4	62.5°	362.8	491.0	613.7	739.2	853.7	979.2	1033.7	1153.8	1170.1
207.3	65°	253.7	343.7	485.5	581.0	709.2	801.9	872.8	976.5	995.6
122.7	67.5°	163.7	248.2	384.6	469.1	586.4	665.5	739.2	821.0	845.5
79.1	70°	98.2	188.2	286.4	376.4	482.8	553.7	624.6	695.5	709.2
38.2	72.5°	62.7	130.9	207.3	305.5	387.3	463.7	526.4	578.2	537.3
24.5	75°	35.5	90.0	163.7	240.0	313.7	387.3	439.1	466.4	373.7
16.4	77.5°	21.8	65.5	133.7	193.7	242.8	310.9	343.7	360.0	267.3
10.9	80°	13.6	49.1	111.8	158.2	158.2	229.1	267.3	280.9	193.7
8.2	82.5°	10.9	35.5	87.3	120.0	106.4	171.8	210.0	212.7	136.4
5.5	85°	8.2	27.3	54.6	79.1	73.6	120.0	122.7	136.4	90.0
5.5	87.5°	5.5	16.4	32.7	46.4	40.9	57.3	65.5	73.6	49.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
25369.0
24624.4
24212.5
23609.7
22480.5
21266.7
19859.3
18451.9
16902.6
15407.9
13902.3
12549.5
11202.1
9887.4
8668.2
7498.0
6333.4
5171.4
4154.1
3404.0
2803.9
2318.4
1928.4
1622.9
1372.0
1164.7
990.1
842.8
698.3
499.1
354.6
250.9
180.0
125.5
81.8
43.6
0.0

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