

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: P638475

Luminaire Tested: **IFLD-L-SA8C-750-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638475
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-750-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38196.3 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

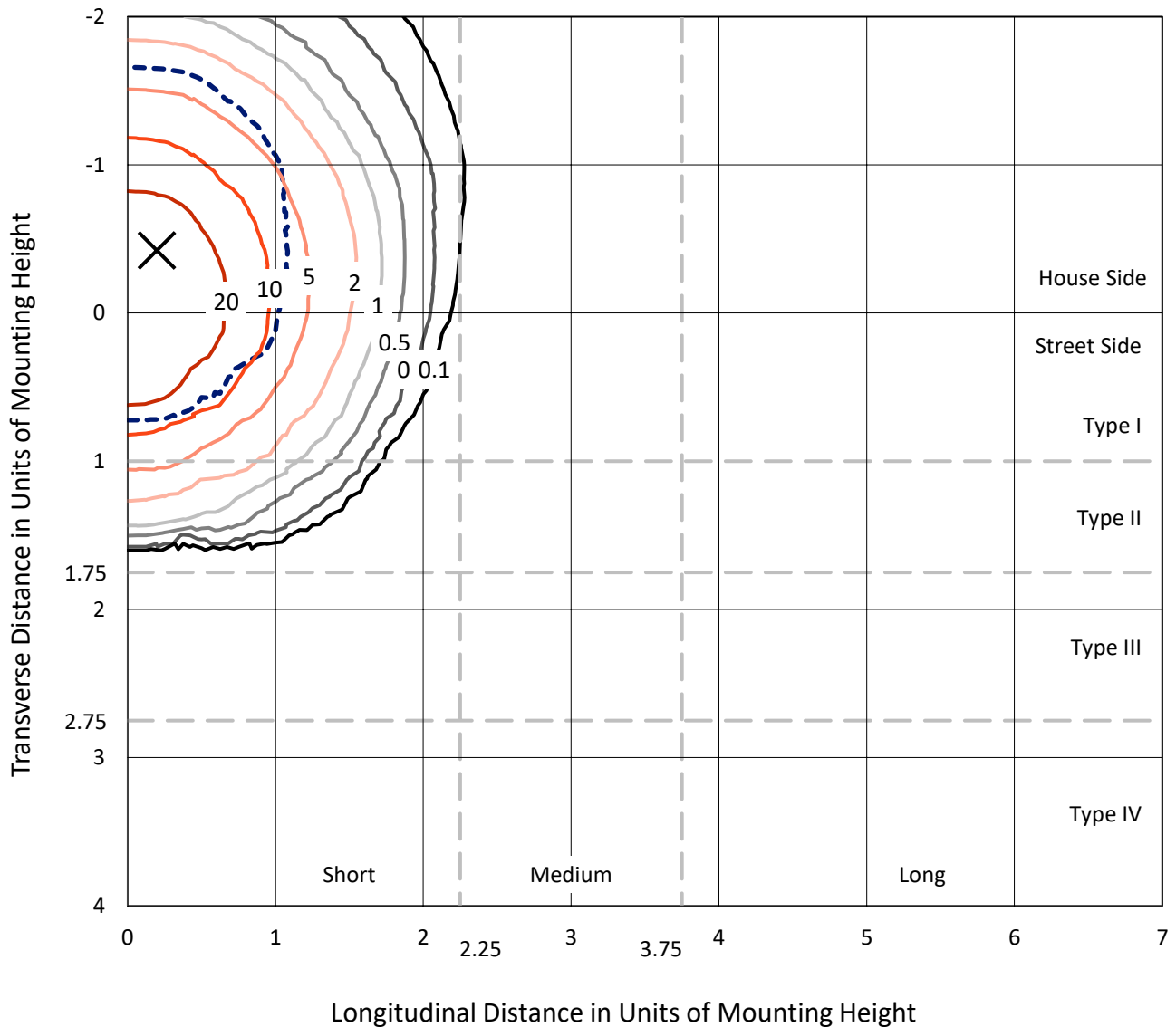
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

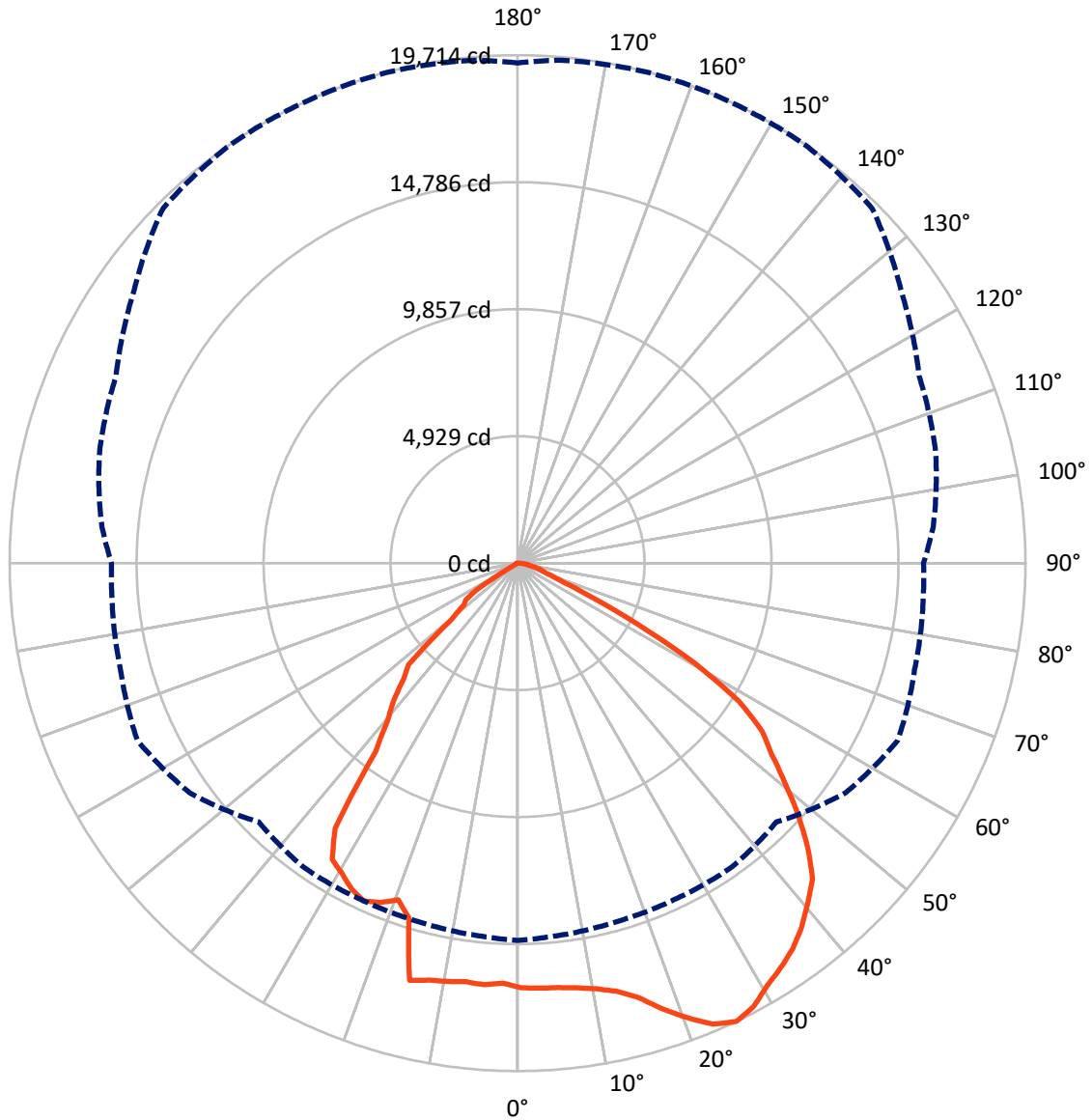
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 41.2 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	23647.4	0.0	23647.4
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	14548.9	0.0	14548.9
	% Fixture	38.1	0.0	38.1
Total	Lumens	38196.3	0.0	38196.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1581.1	4.1
10°-20°	4827.9	12.6
20°-30°	7632.7	20.0
30°-40°	8621.8	22.6
40°-50°	8074.5	21.1
50°-60°	5566.8	14.6
60°-70°	1495.6	3.9
70°-80°	311.7	0.8
80°-90°	84.3	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°	38196.3	100.0
0°-180°	38196.3	100.0



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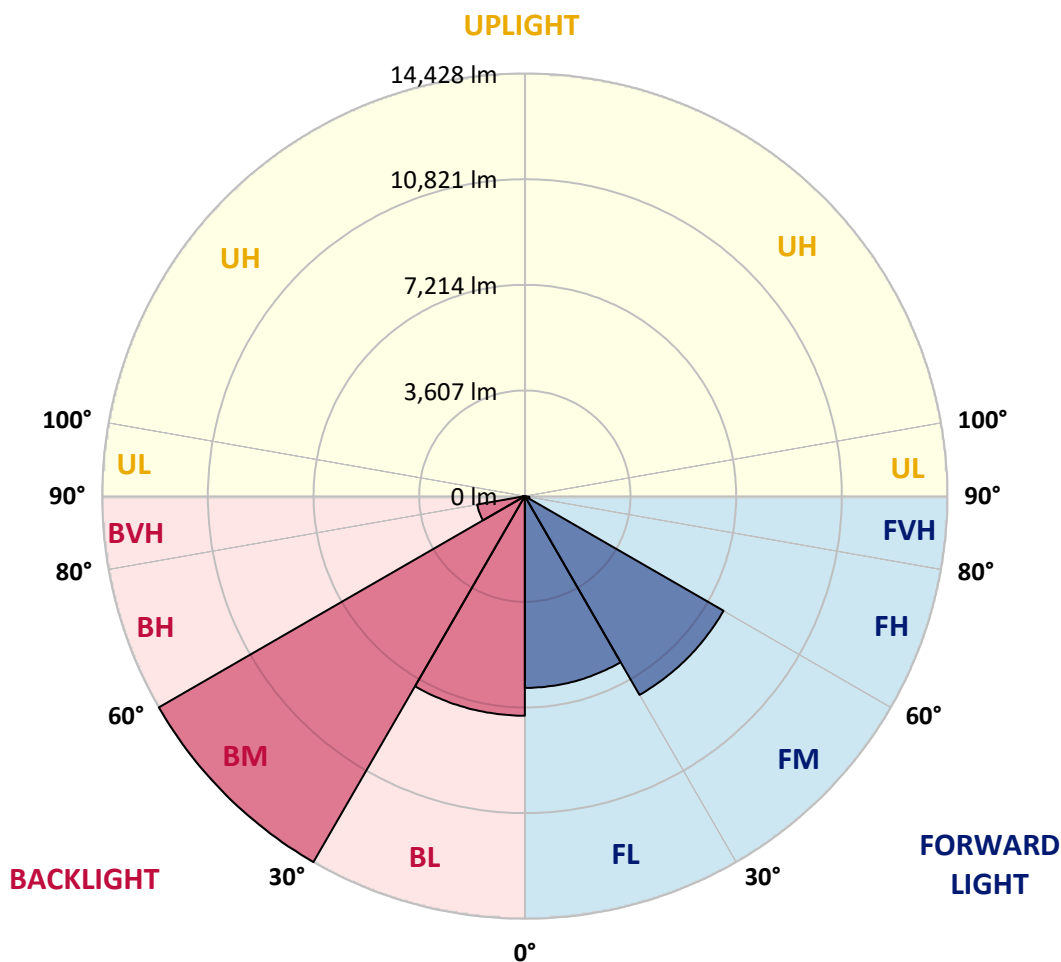
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6545.6	17.1			
FM (30°-60°)	7834.9	20.5			
FH (60°-80°)	157.0	0.4			G0/660
FVH (80°-90°)	11.3	0.0			G1/100
BL (0°-30°)	7496.1	19.6	B5		
BM (30°-60°)	14428.1	37.8	B5		
BH (60°-80°)	1650.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	73.0	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-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16481.0	16481.0	16481.0	16481.0	16481.0	16481.0	16481.0	16481.0	16481.0	16481.0
2.5°	16554.0	16447.3	16346.3	16312.6	16453.0	16604.5	16509.1	16514.7	16481.0	16542.8
5°	16677.5	16531.6	16464.2	16413.7	16436.1	16593.3	16458.6	16509.1	16453.0	16525.9
7.5°	16632.6	16531.6	16464.2	16368.8	16441.7	16627.0	16497.9	16503.5	16475.4	16542.8
10°	16604.5	16531.6	16447.3	16458.6	16542.8	16700.0	16598.9	16655.0	16615.8	16655.0
12.5°	16671.9	16593.3	16548.4	16548.4	16621.4	16801.0	16750.5	16801.0	16784.2	16817.8
15°	16037.6	16110.5	16537.2	16728.0	16874.0	17053.6	17031.1	17081.7	17092.9	17143.4
17.5°	13528.4	13455.4	13421.7	14404.1	17014.3	17570.0	17553.2	17547.6	17491.4	17452.2
20°	13859.6	13831.5	13792.2	13865.2	14157.1	17839.5	17951.7	17261.3	17059.2	17042.4
22.5°	14387.2	14342.3	14196.4	14202.0	14291.8	15509.9	17396.0	16767.3	16700.0	16660.7
25°	14645.4	14555.6	14437.7	14404.1	14432.1	14207.6	15538.0	16284.6	15953.4	15801.8
27.5°	14190.8	14196.4	14100.9	14190.8	14084.1	13073.7	12506.7	15341.5	15330.3	15262.9
30°	13848.3	13831.5	13719.2	13831.5	13096.1	11967.8	11726.5	14308.6	14190.8	14100.9
32.5°	12798.6	12809.8	13135.4	13573.3	12366.4	11473.9	10744.1	12781.8	13898.9	13848.3
35°	9155.5	9178.0	10334.3	12495.5	11260.5	10491.5	10435.4	11047.2	13438.6	13461.0
37.5°	8813.1	8813.1	8785.0	9138.7	10390.5	10092.9	10205.2	10143.5	12310.3	12366.4
40°	8566.1	8515.6	8476.3	7920.5	7224.5	9812.3	9890.9	9610.2	11636.6	11647.9
42.5°	8268.6	8212.4	8223.7	7196.4	6466.7	9116.2	8897.3	8521.2	10514.0	10525.2
45°	7724.1	7819.5	7886.9	6298.3	6242.1	6511.6	8206.8	7971.1	9756.1	9963.8
47.5°	3929.4	4013.6	6157.9	5793.1	5922.2	5787.4	6932.6	6938.2	8117.0	8807.5
50°	3564.5	3542.1	3547.7	3379.3	5467.5	4681.6	5012.8	6360.0	6500.4	7488.3
52.5°	3323.2	3317.5	2975.1	2643.9	3435.4	4120.3	3637.5	4603.0	4833.2	6343.2
55°	2458.7	2638.3	2346.4	2486.7	2149.9	3300.7	3283.9	4153.9	4232.5	5085.8
57.5°	22.5	28.1	67.4	1891.7	1487.6	1650.3	2267.8	2834.8	2975.1	3963.1
60°	5.6	11.2	28.1	56.1	965.5	1016.0	1515.6	1639.1	1846.8	2363.3
62.5°	0.0	0.0	11.2	28.1	50.5	415.4	482.8	527.7	813.9	1206.9
65°	0.0	0.0	5.6	16.8	28.1	67.4	117.9	247.0	353.6	437.8
67.5°	0.0	0.0	5.6	11.2	22.5	33.7	67.4	95.4	151.6	258.2
70°	0.0	0.0	5.6	11.2	16.8	28.1	44.9	67.4	89.8	129.1
72.5°	0.0	0.0	5.6	11.2	11.2	33.7	33.7	50.5	67.4	84.2
75°	0.0	0.0	5.6	5.6	11.2	22.5	33.7	39.3	44.9	67.4
77.5°	0.0	0.0	5.6	11.2	16.8	22.5	28.1	44.9	39.3	39.3
80°	0.0	0.0	5.6	16.8	16.8	28.1	33.7	44.9	28.1	28.1
82.5°	0.0	0.0	5.6	22.5	16.8	56.1	56.1	61.7	22.5	22.5
85°	0.0	0.0	16.8	11.2	33.7	56.1	50.5	33.7	28.1	16.8
87.5°	0.0	0.0	5.6	5.6	11.2	16.8	39.3	33.7	11.2	11.2
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°
16481.0	0°	16481.0	16481.0	16481.0	16481.0	16481.0	16481.0	16481.0	16481.0	16481.0
16380.0	2.5°	16604.5	16531.6	16683.1	16666.3	16593.3	16559.6	16520.3	16486.6	16239.7
16391.2	5°	16610.1	16497.9	16683.1	16649.4	16638.2	16582.1	16548.4	16598.9	16374.4
16436.1	7.5°	16610.1	16497.9	16700.0	16711.2	16694.3	16649.4	16643.8	16677.5	16492.3
16514.7	10°	16722.4	16677.5	16845.9	16862.7	16840.3	16829.1	16801.0	16778.5	16582.1
16784.2	12.5°	16958.2	16868.4	17059.2	17109.7	17092.9	17121.0	17053.6	17087.3	16885.2
17059.2	15°	17244.5	17250.1	17396.0	17508.3	17497.1	17586.9	17485.8	17575.6	17429.7
17373.6	17.5°	17682.3	17744.1	17951.7	18120.2	18181.9	18249.3	18181.9	18210.0	18002.3
17025.5	20°	17222.0	17452.2	18451.3	18760.1	18889.2	18950.9	18838.7	18872.4	18664.7
16598.9	22.5°	16806.6	17104.1	17991.0	18956.6	19355.1	19478.6	19439.3	19433.7	19355.1
15756.9	25°	16194.7	16795.4	17193.9	18215.6	19467.4	19691.9	19714.4	19708.8	19590.9
15240.5	27.5°	15442.5	15577.3	16610.1	17233.2	18681.5	19534.7	19501.1	19338.3	19181.1
14168.3	30°	14482.6	15094.5	15560.4	16554.0	17665.5	19052.0	19052.0	18928.5	18765.7
13786.6	32.5°	13994.3	14785.8	15218.0	15577.3	16525.9	18513.1	18737.6	18608.5	18479.4
13489.1	35°	13736.1	13853.9	14864.4	15189.9	15992.7	17474.6	18384.0	18254.9	18159.4
12697.6	37.5°	13169.1	13444.2	13915.7	14785.8	15032.8	16627.0	17912.5	17845.1	17732.8
11670.3	40°	11906.1	12641.4	13365.6	14190.8	14449.0	15538.0	17339.9	17368.0	17216.4
10575.7	42.5°	11159.5	11659.1	12793.0	13348.7	14044.8	14836.3	16784.2	16829.1	16722.4
10020.0	45°	10283.8	10839.5	11636.6	12647.1	13595.7	13870.8	15801.8	16273.3	16183.5
8914.1	47.5°	9481.1	9930.2	10906.9	11928.5	12978.3	12939.0	14673.5	15560.4	15436.9
8066.5	50°	8341.6	9127.4	9587.7	10525.2	12091.3	12198.0	13472.2	14724.0	14623.0
6854.0	52.5°	7033.6	8021.6	8902.9	9761.8	11193.2	11445.8	12355.2	13870.8	13803.4
5237.3	55°	6146.7	6865.2	7858.8	8549.3	10104.2	10777.8	11518.8	13056.8	13023.2
4305.5	57.5°	4372.9	5759.4	6578.9	7544.4	8364.0	9582.1	10132.2	11400.9	11086.5
2385.7	60°	2963.9	3615.0	4614.2	5652.7	6202.8	7421.0	7931.8	8947.8	8863.6
1425.8	62.5°	1566.1	2166.8	2879.7	3401.7	3800.3	4984.7	5198.0	6292.7	6264.6
572.6	65°	690.5	915.0	1560.5	1830.0	2239.8	2789.9	2975.1	3368.1	3272.6
280.7	67.5°	359.3	544.5	881.3	1083.4	1364.1	1571.8	1723.3	1846.8	1925.4
185.2	70°	218.9	398.6	544.5	752.2	937.4	1105.8	1223.7	1392.1	1493.2
95.4	72.5°	162.8	252.6	376.1	578.2	679.2	875.7	993.6	1117.1	1206.9
78.6	75°	89.8	168.4	303.1	454.7	544.5	712.9	819.6	903.8	931.8
44.9	77.5°	56.1	129.1	252.6	353.6	426.6	578.2	550.1	628.7	696.1
33.7	80°	39.3	95.4	196.5	291.9	297.5	370.5	437.8	505.2	550.1
22.5	82.5°	28.1	78.6	145.9	224.5	196.5	286.3	342.4	392.9	286.3
16.8	85°	22.5	56.1	73.0	134.7	112.3	202.1	174.0	168.4	112.3
11.2	87.5°	16.8	28.1	50.5	61.7	44.9	44.9	56.1	67.4	56.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
16481.0
16071.2
16183.5
16278.9
16419.3
16705.6
17188.3
17822.6
18518.7
19102.5
19411.2
19057.6
18703.9
18372.8
18024.7
17620.6
17182.7
16711.2
16194.7
15526.7
14639.8
13848.3
13062.5
11052.8
8869.2
6270.2
3233.3
1925.4
1498.8
1223.7
915.0
707.3
555.7
207.7
112.3
56.1
0.0

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