

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: P638341

Luminaire Tested: **IFLD-S-SA3E-727-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638341
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-727-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16625.9 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

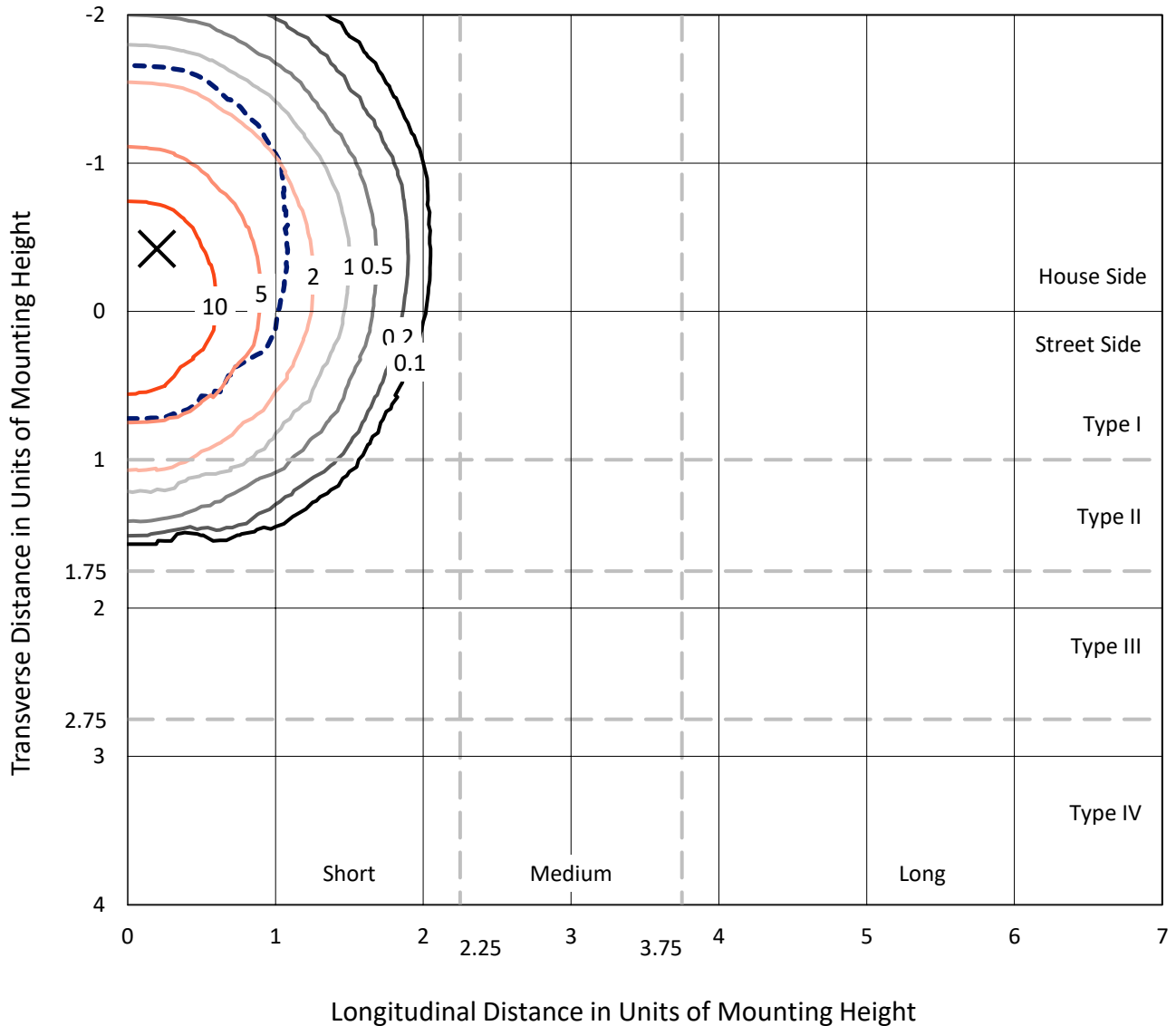
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

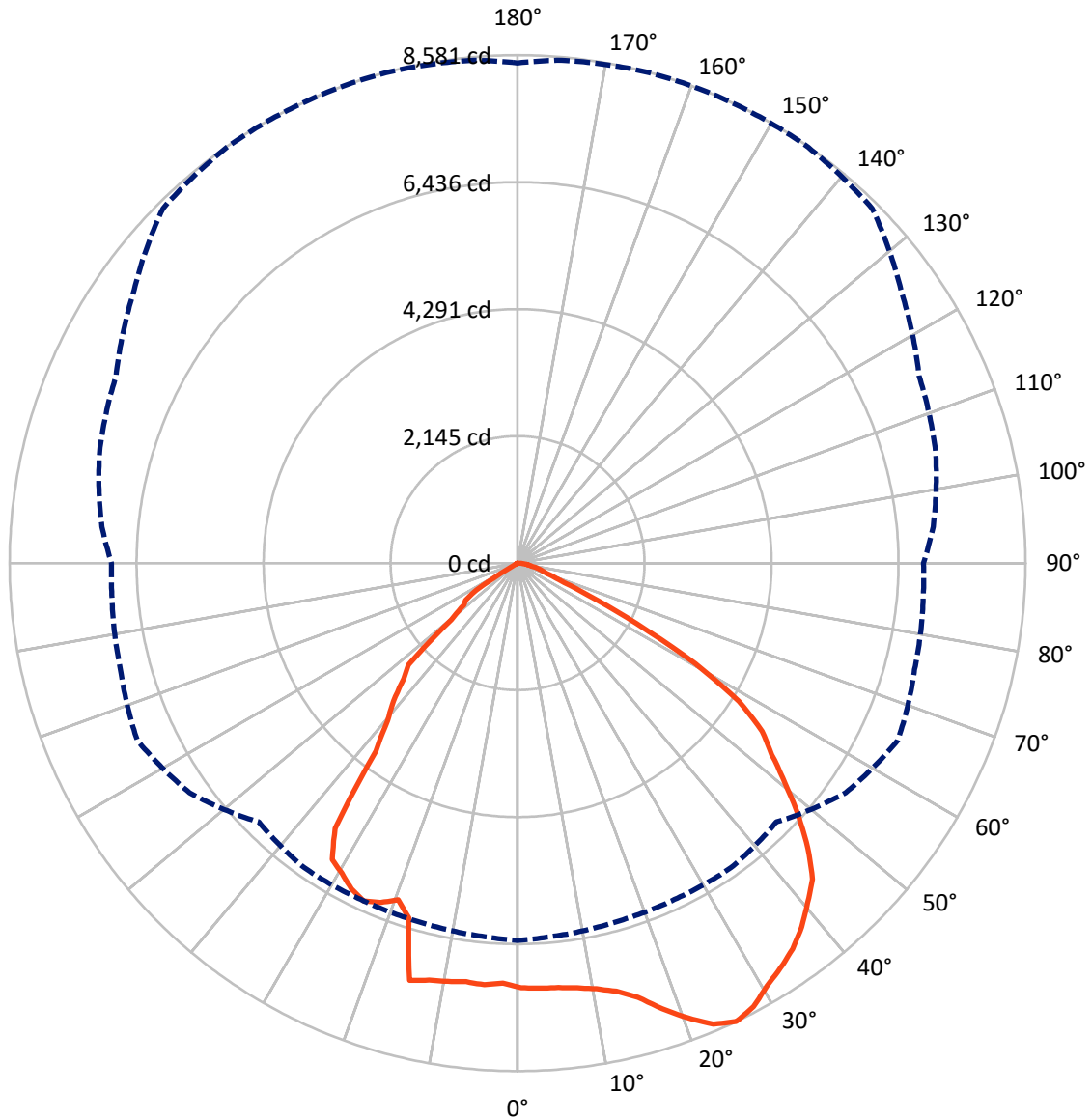
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 17.9 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	10293.2	0.0	10293.2
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	6332.8	0.0	6332.8
	% Fixture	38.1	0.0	38.1
Total	Lumens	16625.9	0.0	16625.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	688.2	4.1
10°-20°	2101.5	12.6
20°-30°	3322.3	20.0
30°-40°	3752.8	22.6
40°-50°	3514.6	21.1
50°-60°	2423.1	14.6
60°-70°	651.0	3.9
70°-80°	135.7	0.8
80°-90°	36.7	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°	16625.9	100.0
0°-180°	16625.9	100.0



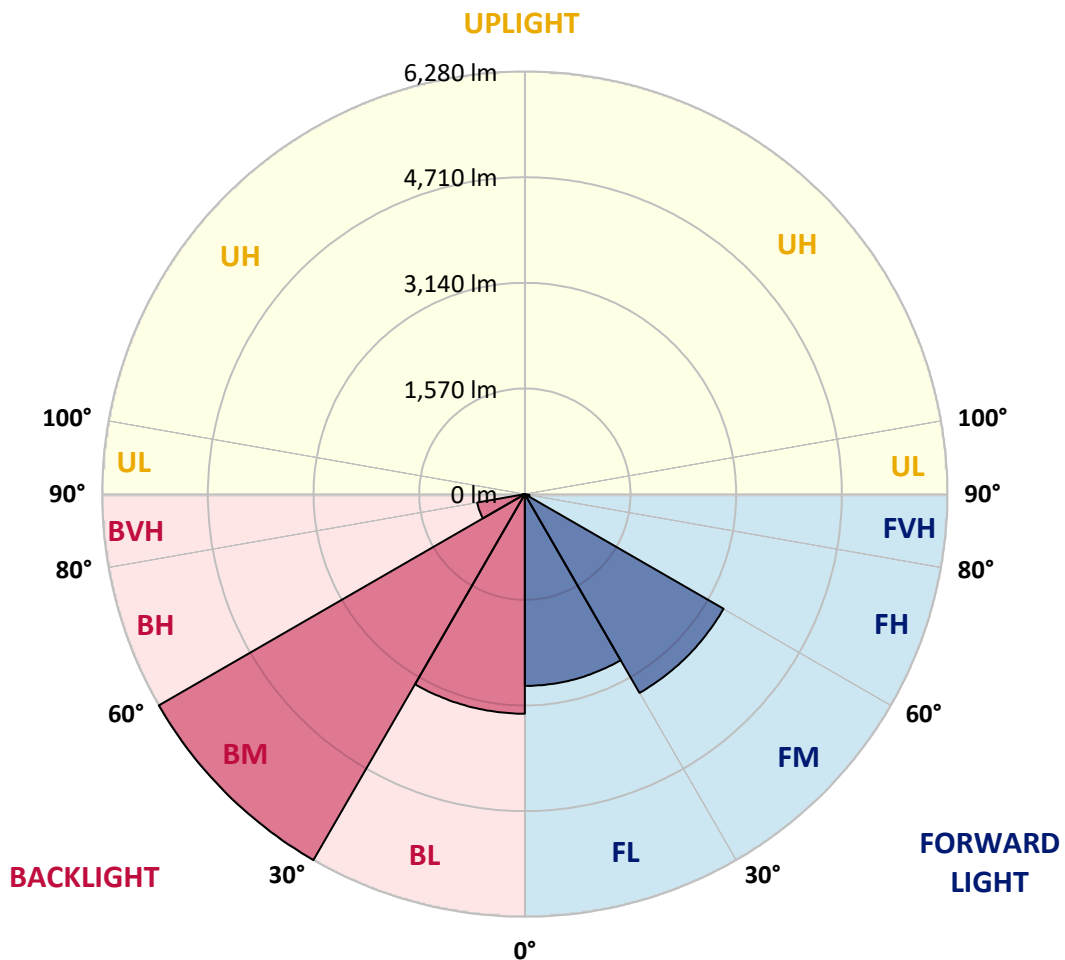
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2849.2	17.1			
FM (30°-60°)	3410.3	20.5			
FH (60°-80°)	68.3	0.4			G0/660
FVH (80°-90°)	4.9	0.0			G0/10
BL (0°-30°)	3262.9	19.6	B4/5000		
BM (30°-60°)	6280.2	37.8	B4/8500		
BH (60°-80°)	718.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	31.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7173.8	7173.8	7173.8	7173.8	7173.8	7173.8	7173.8	7173.8	7173.8	7173.8
2.5°	7205.6	7159.1	7115.2	7100.5	7161.6	7227.5	7186.0	7188.5	7173.8	7200.7
5°	7259.3	7195.8	7166.5	7144.5	7154.2	7222.7	7164.0	7186.0	7161.6	7193.3
7.5°	7239.8	7195.8	7166.5	7124.9	7156.7	7237.3	7181.1	7183.6	7171.3	7200.7
10°	7227.5	7195.8	7159.1	7164.0	7200.7	7269.1	7225.1	7249.5	7232.4	7249.5
12.5°	7256.9	7222.7	7203.1	7203.1	7234.9	7313.1	7291.1	7313.1	7305.7	7320.4
15°	6980.8	7012.5	7198.2	7281.3	7344.8	7423.0	7413.2	7435.2	7440.1	7462.1
17.5°	5888.6	5856.8	5842.1	6269.7	7405.9	7647.8	7640.5	7638.0	7613.6	7596.5
20°	6032.7	6020.5	6003.4	6035.2	6162.2	7765.1	7814.0	7513.4	7425.5	7418.1
22.5°	6262.4	6242.9	6179.3	6181.8	6220.9	6751.1	7572.1	7298.4	7269.1	7252.0
25°	6374.8	6335.7	6284.4	6269.7	6282.0	6184.2	6763.3	7088.3	6944.1	6878.1
27.5°	6176.9	6179.3	6137.8	6176.9	6130.5	5690.7	5443.9	6677.8	6672.9	6643.6
30°	6027.8	6020.5	5971.6	6020.5	5700.4	5209.3	5104.2	6228.2	6176.9	6137.8
32.5°	5570.9	5575.8	5717.5	5908.1	5382.8	4994.3	4676.6	5563.6	6049.8	6027.8
35°	3985.2	3994.9	4498.3	5439.0	4901.4	4566.7	4542.3	4808.6	5849.5	5859.2
37.5°	3836.1	3836.1	3823.9	3977.8	4522.7	4393.2	4442.1	4415.2	5358.4	5382.8
40°	3728.6	3706.6	3689.5	3447.6	3144.6	4271.0	4305.3	4183.1	5065.1	5070.0
42.5°	3599.1	3574.7	3579.6	3132.4	2814.8	3968.1	3872.8	3709.1	4576.5	4581.4
45°	3362.1	3403.6	3433.0	2741.5	2717.0	2834.3	3572.2	3469.6	4246.6	4337.0
47.5°	1710.4	1747.0	2680.4	2521.6	2577.8	2519.1	3017.6	3020.0	3533.1	3833.7
50°	1551.6	1541.8	1544.2	1470.9	2379.9	2037.8	2181.9	2768.4	2829.4	3259.5
52.5°	1446.5	1444.0	1295.0	1150.8	1495.4	1793.4	1583.3	2003.6	2103.8	2761.0
55°	1070.2	1148.4	1021.3	1082.4	935.8	1436.7	1429.4	1808.1	1842.3	2213.7
57.5°	9.8	12.2	29.3	823.4	647.5	718.4	987.1	1233.9	1295.0	1725.0
60°	2.4	4.9	12.2	24.4	420.3	442.3	659.7	713.5	803.9	1028.7
62.5°	0.0	0.0	4.9	12.2	22.0	180.8	210.1	229.7	354.3	525.3
65°	0.0	0.0	2.4	7.3	12.2	29.3	51.3	107.5	153.9	190.6
67.5°	0.0	0.0	2.4	4.9	9.8	14.7	29.3	41.5	66.0	112.4
70°	0.0	0.0	2.4	4.9	7.3	12.2	19.5	29.3	39.1	56.2
72.5°	0.0	0.0	2.4	4.9	4.9	14.7	14.7	22.0	29.3	36.7
75°	0.0	0.0	2.4	2.4	4.9	9.8	14.7	17.1	19.5	29.3
77.5°	0.0	0.0	2.4	4.9	7.3	9.8	12.2	19.5	17.1	17.1
80°	0.0	0.0	2.4	7.3	7.3	12.2	14.7	19.5	12.2	12.2
82.5°	0.0	0.0	2.4	9.8	7.3	24.4	24.4	26.9	9.8	9.8
85°	0.0	0.0	7.3	4.9	14.7	24.4	22.0	14.7	12.2	7.3
87.5°	0.0	0.0	2.4	2.4	4.9	7.3	17.1	14.7	4.9	4.9
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°
7173.8	0°	7173.8	7173.8	7173.8	7173.8	7173.8	7173.8	7173.8	7173.8	7173.8
7129.8	2.5°	7227.5	7195.8	7261.8	7254.4	7222.7	7208.0	7190.9	7176.2	7068.7
7134.7	5°	7230.0	7181.1	7261.8	7247.1	7242.2	7217.8	7203.1	7225.1	7127.4
7154.2	7.5°	7230.0	7181.1	7269.1	7274.0	7266.6	7247.1	7244.7	7259.3	7178.7
7188.5	10°	7278.9	7259.3	7332.6	7339.9	7330.2	7325.3	7313.1	7303.3	7217.8
7305.7	12.5°	7381.5	7342.4	7425.5	7447.5	7440.1	7452.3	7423.0	7437.7	7349.7
7425.5	15°	7506.1	7508.5	7572.1	7620.9	7616.0	7655.1	7611.2	7650.3	7586.7
7562.3	17.5°	7696.7	7723.6	7814.0	7887.3	7914.1	7943.5	7914.1	7926.4	7836.0
7410.8	20°	7496.3	7596.5	8031.4	8165.8	8222.0	8248.9	8200.0	8214.7	8124.3
7225.1	22.5°	7315.5	7445.0	7831.1	8251.3	8424.8	8478.6	8461.5	8459.0	8424.8
6858.6	25°	7049.2	7310.6	7484.1	7928.8	8473.7	8571.4	8581.2	8578.7	8527.4
6633.8	27.5°	6721.8	6780.4	7230.0	7501.2	8131.6	8503.0	8488.3	8417.5	8349.1
6167.1	30°	6303.9	6570.3	6773.1	7205.6	7689.3	8292.9	8292.9	8239.1	8168.3
6001.0	32.5°	6091.4	6435.9	6624.0	6780.4	7193.3	8058.3	8156.0	8099.8	8043.6
5871.5	35°	5979.0	6030.3	6470.1	6611.8	6961.2	7606.3	8002.1	7945.9	7904.4
5526.9	37.5°	5732.2	5851.9	6057.2	6435.9	6543.4	7237.3	7796.9	7767.5	7718.7
5079.8	40°	5182.4	5502.5	5817.7	6176.9	6289.3	6763.3	7547.6	7559.8	7493.9
4603.3	42.5°	4857.5	5074.9	5568.5	5810.4	6113.4	6457.9	7305.7	7325.3	7278.9
4361.5	45°	4476.3	4718.2	5065.1	5505.0	5917.9	6037.6	6878.1	7083.4	7044.3
3880.1	47.5°	4126.9	4322.4	4747.5	5192.2	5649.1	5632.0	6387.0	6773.1	6719.3
3511.2	50°	3630.9	3973.0	4173.3	4581.4	5263.1	5309.5	5864.1	6409.0	6365.0
2983.4	52.5°	3061.6	3491.6	3875.2	4249.1	4872.1	4982.1	5377.9	6037.6	6008.3
2279.7	55°	2675.5	2988.3	3420.7	3721.3	4398.1	4691.3	5013.8	5683.3	5668.7
1874.1	57.5°	1903.4	2506.9	2863.7	3283.9	3640.7	4170.9	4410.3	4962.5	4825.7
1038.4	60°	1290.1	1573.5	2008.5	2460.5	2699.9	3230.2	3452.5	3894.8	3858.1
620.6	62.5°	681.7	943.1	1253.5	1480.7	1654.2	2169.7	2262.6	2739.0	2726.8
249.2	65°	300.5	398.3	679.3	796.5	974.9	1214.4	1295.0	1466.0	1424.5
122.2	67.5°	156.4	237.0	383.6	471.6	593.7	684.1	750.1	803.9	838.1
80.6	70°	95.3	173.5	237.0	327.4	408.0	481.3	532.7	606.0	649.9
41.5	72.5°	70.9	110.0	163.7	251.7	295.7	381.2	432.5	486.2	525.3
34.2	75°	39.1	73.3	131.9	197.9	237.0	310.3	356.7	393.4	405.6
19.5	77.5°	24.4	56.2	110.0	153.9	185.7	251.7	239.5	273.7	303.0
14.7	80°	17.1	41.5	85.5	127.1	129.5	161.3	190.6	219.9	239.5
9.8	82.5°	12.2	34.2	63.5	97.7	85.5	124.6	149.0	171.0	124.6
7.3	85°	9.8	24.4	31.8	58.6	48.9	88.0	75.7	73.3	48.9
4.9	87.5°	7.3	12.2	22.0	26.9	19.5	19.5	24.4	29.3	24.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7173.8
6995.4
7044.3
7085.8
7146.9
7271.5
7481.7
7757.8
8060.7
8314.9
8449.2
8295.3
8141.4
7997.2
7845.7
7669.8
7479.2
7274.0
7049.2
6758.4
6372.4
6027.8
5685.8
4811.0
3860.6
2729.3
1407.4
838.1
652.4
532.7
398.3
307.9
241.9
90.4
48.9
24.4
0.0

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