

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: P638544

Luminaire Tested: **IFLD-S-SA3E-830-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638544
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-830-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15796.9 lumens
Efficiency: N/A
Efficacy: 68.1 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

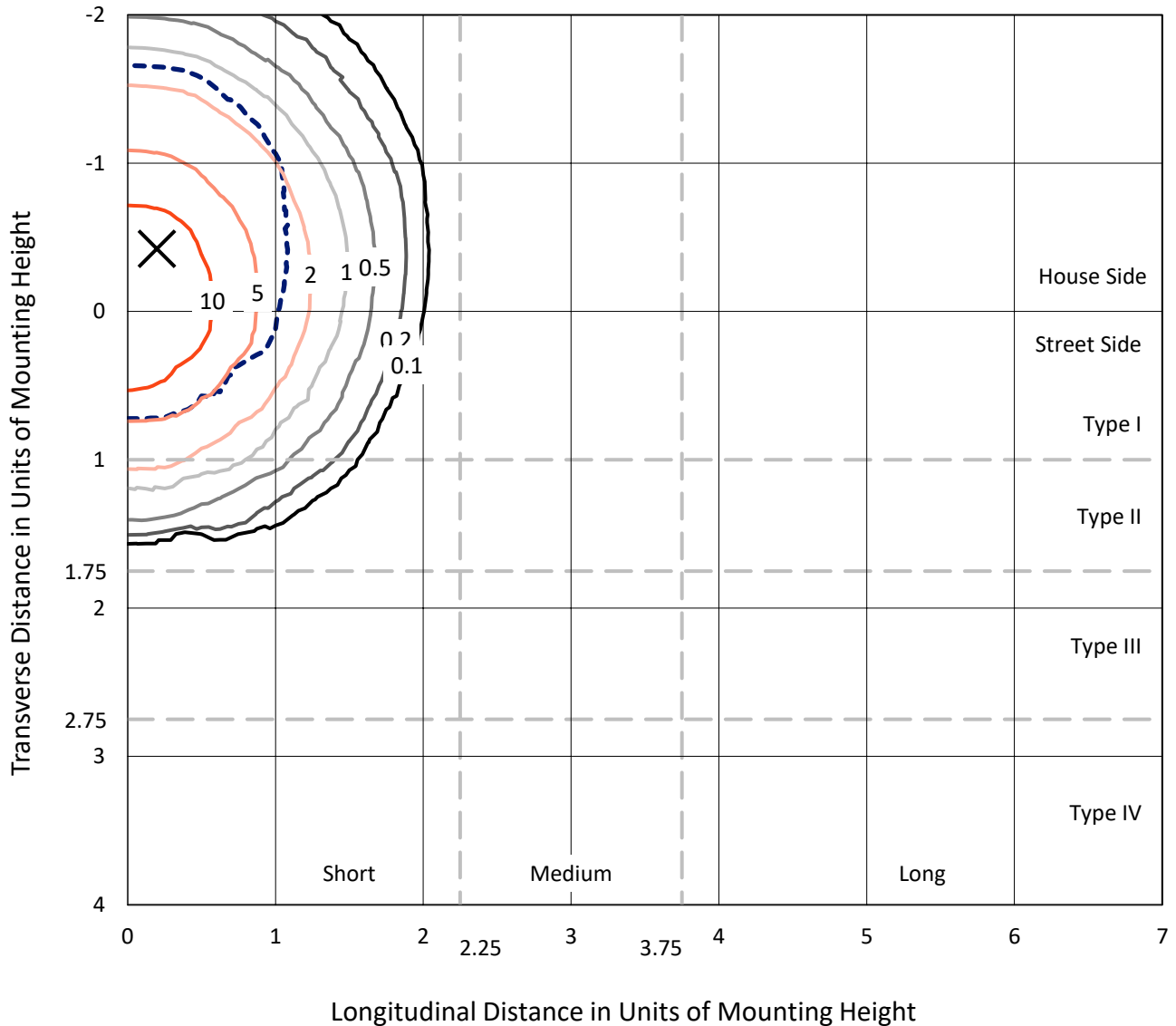
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

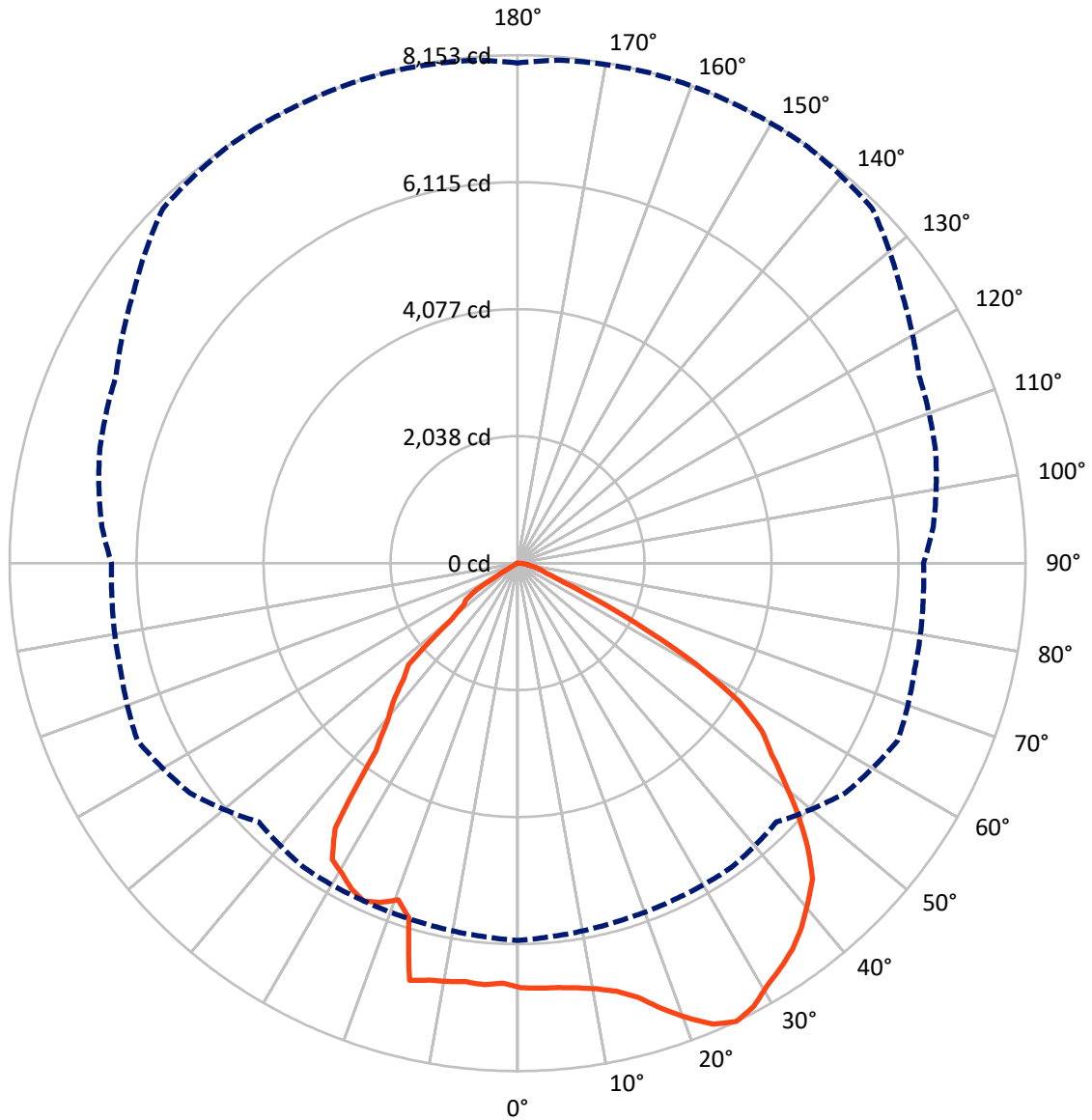
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 17 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	9779.9	0.0	9779.9
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	6017.0	0.0	6017.0
	% Fixture	38.1	0.0	38.1
Total	Lumens	15796.9	0.0	15796.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.9	4.1
10°-20°	1996.7	12.6
20°-30°	3156.7	20.0
30°-40°	3565.7	22.6
40°-50°	3339.4	21.1
50°-60°	2302.3	14.6
60°-70°	618.5	3.9
70°-80°	128.9	0.8
80°-90°	34.9	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°	15796.9	100.0
0°-180°	15796.9	100.0



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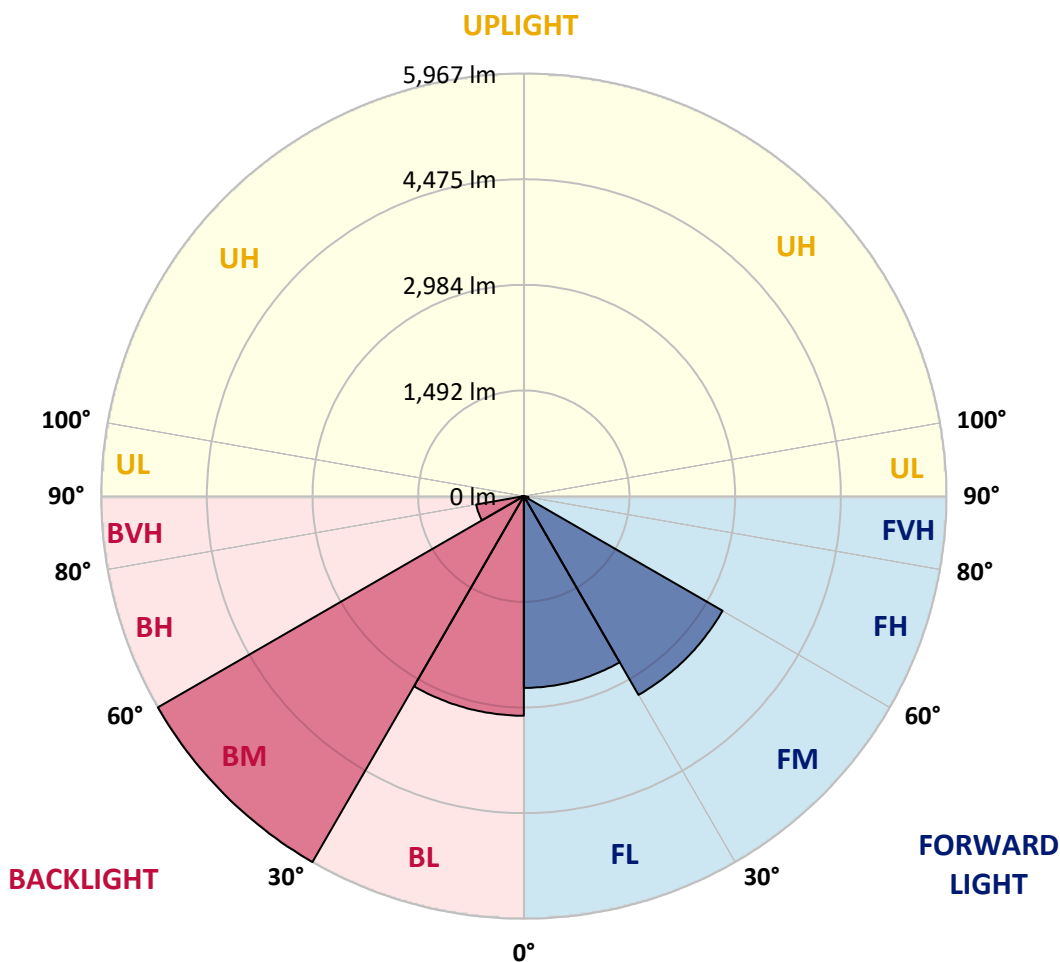
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2707.1	17.1			
FM (30°-60°)	3240.3	20.5			
FH (60°-80°)	64.9	0.4			G0/660
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	3100.2	19.6	B4/5000		
BM (30°-60°)	5967.0	37.8	B4/8500		
BH (60°-80°)	682.5	4.3	B2/1000		G2/1000
BVH (80°-90°)	30.2	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°	6816.1	6816.1	6816.1	6816.1	6816.1	6816.1	6816.1	6816.1	6816.1	6816.1
2.5°	6846.3	6802.2	6760.4	6746.4	6804.5	6867.2	6827.7	6830.0	6816.1	6841.6
5°	6897.3	6837.0	6809.1	6788.2	6797.5	6862.5	6806.8	6827.7	6804.5	6834.7
7.5°	6878.8	6837.0	6809.1	6769.7	6799.8	6876.5	6823.1	6825.4	6813.8	6841.6
10°	6867.2	6837.0	6802.2	6806.8	6841.6	6906.6	6864.8	6888.1	6871.8	6888.1
12.5°	6895.0	6862.5	6843.9	6843.9	6874.1	6948.4	6927.5	6948.4	6941.5	6955.4
15°	6632.7	6662.9	6839.3	6918.2	6978.6	7052.9	7043.6	7064.5	7069.1	7090.0
17.5°	5595.0	5564.8	5550.8	5957.1	7036.6	7266.5	7259.5	7257.2	7234.0	7217.7
20°	5731.9	5720.3	5704.1	5734.2	5855.0	7377.9	7424.3	7138.8	7055.2	7048.2
22.5°	5950.1	5931.6	5871.2	5873.5	5910.7	6414.5	7194.5	6934.5	6906.6	6890.4
25°	6056.9	6019.8	5971.0	5957.1	5968.7	5875.9	6426.1	6734.8	6597.9	6535.2
27.5°	5868.9	5871.2	5831.8	5868.9	5824.8	5406.9	5172.4	6344.8	6340.2	6312.3
30°	5727.3	5720.3	5673.9	5720.3	5416.2	4949.6	4849.7	5917.6	5868.9	5831.8
32.5°	5293.1	5297.8	5432.4	5613.5	5114.4	4745.3	4443.5	5286.2	5748.2	5727.3
35°	3786.5	3795.7	4274.0	5167.8	4657.0	4339.0	4315.8	4568.8	5557.8	5567.1
37.5°	3644.8	3644.8	3633.2	3779.5	4297.2	4174.2	4220.6	4195.1	5091.2	5114.4
40°	3542.7	3521.8	3505.6	3275.7	2987.8	4058.1	4090.6	3974.5	4812.6	4817.2
42.5°	3419.7	3396.4	3401.1	2976.2	2674.4	3770.2	3679.7	3524.1	4348.3	4352.9
45°	3194.5	3233.9	3261.8	2604.8	2581.6	2693.0	3394.1	3296.6	4034.9	4120.8
47.5°	1625.1	1659.9	2546.7	2395.8	2449.2	2393.5	2867.1	2869.4	3357.0	3642.5
50°	1474.2	1464.9	1467.2	1397.6	2261.2	1936.2	2073.1	2630.3	2688.4	3097.0
52.5°	1374.4	1372.0	1230.4	1093.5	1420.8	1704.0	1504.4	1903.7	1998.9	2623.4
55°	1016.8	1091.1	970.4	1028.4	889.2	1365.1	1358.1	1718.0	1750.5	2103.3
57.5°	9.3	11.6	27.9	782.4	615.2	682.5	937.9	1172.4	1230.4	1639.0
60°	2.3	4.6	11.6	23.2	399.3	420.2	626.8	677.9	763.8	977.4
62.5°	0.0	0.0	4.6	11.6	20.9	171.8	199.7	218.2	336.6	499.1
65°	0.0	0.0	2.3	7.0	11.6	27.9	48.8	102.1	146.3	181.1
67.5°	0.0	0.0	2.3	4.6	9.3	13.9	27.9	39.5	62.7	106.8
70°	0.0	0.0	2.3	4.6	7.0	11.6	18.6	27.9	37.1	53.4
72.5°	0.0	0.0	2.3	4.6	4.6	13.9	13.9	20.9	27.9	34.8
75°	0.0	0.0	2.3	2.3	4.6	9.3	13.9	16.3	18.6	27.9
77.5°	0.0	0.0	2.3	4.6	7.0	9.3	11.6	18.6	16.3	16.3
80°	0.0	0.0	2.3	7.0	7.0	11.6	13.9	18.6	11.6	11.6
82.5°	0.0	0.0	2.3	9.3	7.0	23.2	23.2	25.5	9.3	9.3
85°	0.0	0.0	7.0	4.6	13.9	23.2	20.9	13.9	11.6	7.0
87.5°	0.0	0.0	2.3	2.3	4.6	7.0	16.3	13.9	4.6	4.6
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°
6816.1	0°	6816.1	6816.1	6816.1	6816.1	6816.1	6816.1	6816.1	6816.1	6816.1
6774.3	2.5°	6867.2	6837.0	6899.7	6892.7	6862.5	6848.6	6832.3	6818.4	6716.3
6778.9	5°	6869.5	6823.1	6899.7	6885.7	6881.1	6857.9	6843.9	6864.8	6772.0
6797.5	7.5°	6869.5	6823.1	6906.6	6911.3	6904.3	6885.7	6883.4	6897.3	6820.7
6830.0	10°	6915.9	6897.3	6967.0	6974.0	6964.7	6960.0	6948.4	6939.1	6857.9
6941.5	12.5°	7013.4	6976.3	7055.2	7076.1	7069.1	7080.7	7052.9	7066.8	6983.2
7055.2	15°	7131.8	7134.1	7194.5	7240.9	7236.3	7273.4	7231.6	7268.8	7208.4
7185.2	17.5°	7312.9	7338.4	7424.3	7494.0	7519.5	7547.4	7519.5	7531.1	7445.2
7041.3	20°	7122.5	7217.7	7631.0	7758.6	7812.0	7837.6	7791.1	7805.1	7719.2
6864.8	22.5°	6950.7	7073.8	7440.6	7839.9	8004.7	8055.8	8039.6	8037.2	8004.7
6516.6	25°	6697.7	6946.1	7110.9	7533.5	8051.2	8144.0	8153.3	8151.0	8102.2
6303.0	27.5°	6386.6	6442.3	6869.5	7127.2	7726.1	8079.0	8065.1	7997.8	7932.8
5859.6	30°	5989.6	6242.7	6435.4	6846.3	7305.9	7879.4	7879.4	7828.3	7761.0
5701.7	32.5°	5787.6	6115.0	6293.7	6442.3	6834.7	7656.5	7749.4	7696.0	7642.6
5578.7	35°	5680.8	5729.6	6147.5	6282.1	6614.1	7227.0	7603.1	7549.7	7510.2
5251.4	37.5°	5446.4	5560.1	5755.1	6115.0	6217.1	6876.5	7408.1	7380.2	7333.8
4826.5	40°	4924.0	5228.1	5527.6	5868.9	5975.7	6426.1	7171.3	7182.9	7120.2
4373.8	42.5°	4615.3	4821.9	5290.8	5520.7	5808.5	6135.9	6941.5	6960.0	6915.9
4144.0	45°	4253.1	4482.9	4812.6	5230.5	5622.8	5736.6	6535.2	6730.2	6693.0
3686.6	47.5°	3921.1	4106.8	4510.8	4933.3	5367.4	5351.2	6068.5	6435.4	6384.3
3336.1	50°	3449.8	3774.9	3965.2	4352.9	5000.6	5044.7	5571.7	6089.4	6047.7
2834.6	52.5°	2908.9	3317.5	3682.0	4037.2	4629.2	4733.7	5109.7	5736.6	5708.7
2166.0	55°	2542.1	2839.3	3250.2	3535.7	4178.8	4457.4	4763.8	5399.9	5386.0
1780.6	57.5°	1808.5	2381.9	2720.9	3120.2	3459.1	3962.9	4190.4	4715.1	4585.1
986.7	60°	1225.8	1495.1	1908.3	2337.8	2565.3	3069.1	3280.4	3700.6	3665.7
589.7	62.5°	647.7	896.1	1191.0	1406.9	1571.7	2061.5	2149.8	2602.5	2590.9
236.8	65°	285.6	378.4	645.4	756.8	926.3	1153.8	1230.4	1392.9	1353.5
116.1	67.5°	148.6	225.2	364.5	448.1	564.1	650.0	712.7	763.8	796.3
76.6	70°	90.5	164.8	225.2	311.1	387.7	457.3	506.1	575.7	617.5
39.5	72.5°	67.3	104.5	155.5	239.1	280.9	362.2	410.9	462.0	499.1
32.5	75°	37.1	69.6	125.4	188.0	225.2	294.8	338.9	373.8	385.4
18.6	77.5°	23.2	53.4	104.5	146.3	176.4	239.1	227.5	260.0	287.9
13.9	80°	16.3	39.5	81.3	120.7	123.0	153.2	181.1	208.9	227.5
9.3	82.5°	11.6	32.5	60.4	92.9	81.3	118.4	141.6	162.5	118.4
7.0	85°	9.3	23.2	30.2	55.7	46.4	83.6	72.0	69.6	46.4
4.6	87.5°	7.0	11.6	20.9	25.5	18.6	18.6	23.2	27.9	23.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6816.1
6646.6
6693.0
6732.5
6790.6
6909.0
7108.6
7370.9
7658.8
7900.3
8027.9
7881.7
7735.4
7598.5
7454.5
7287.4
7106.3
6911.3
6697.7
6421.4
6054.6
5727.3
5402.3
4571.1
3668.1
2593.2
1337.2
796.3
619.9
506.1
378.4
292.5
229.8
85.9
46.4
23.2
0.0

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