

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: P638312

Luminaire Tested: **IFLD-S-SA3E-722-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638312
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-722-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14643.9 lumens
Efficiency: N/A
Efficacy: 63.1 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

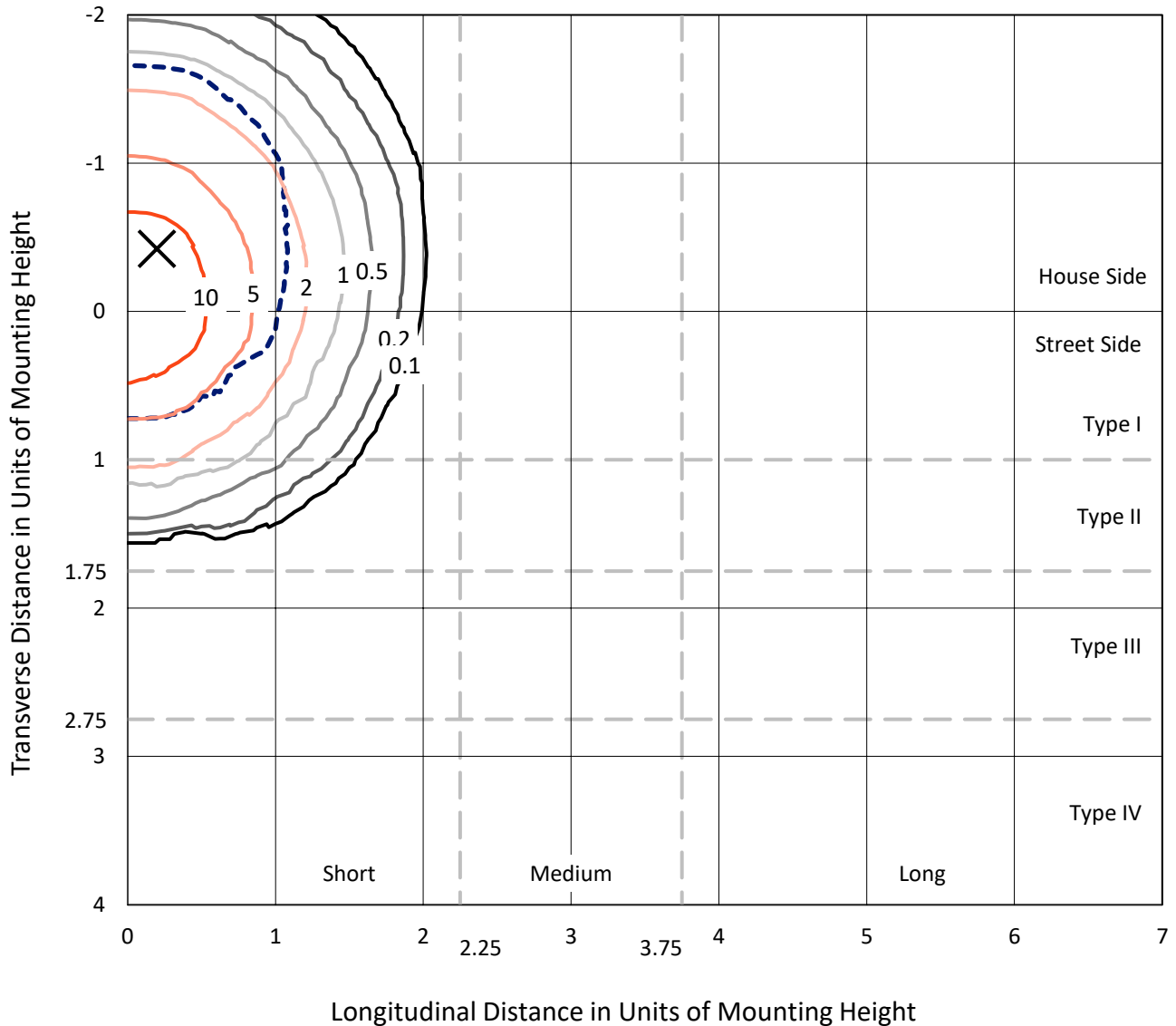
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

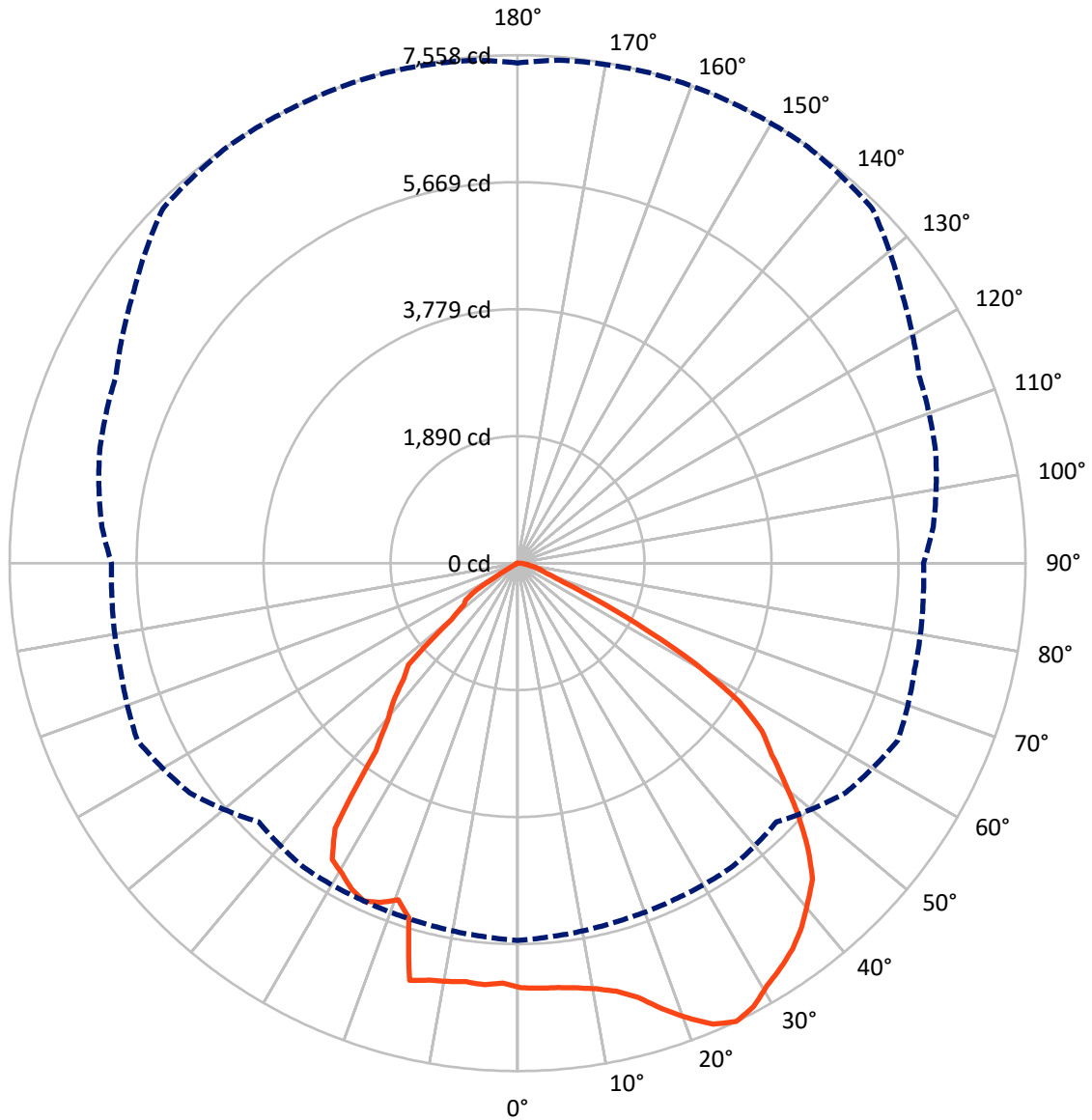
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.8 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	9066.1	0.0	9066.1
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	5577.8	0.0	5577.8
	% Fixture	38.1	0.0	38.1
Total	Lumens	14643.9	0.0	14643.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	606.2	4.1
10°-20°	1850.9	12.6
20°-30°	2926.2	20.0
30°-40°	3305.4	22.6
40°-50°	3095.6	21.1
50°-60°	2134.2	14.6
60°-70°	573.4	3.9
70°-80°	119.5	0.8
80°-90°	32.3	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°	14643.9	100.0
0°-180°	14643.9	100.0



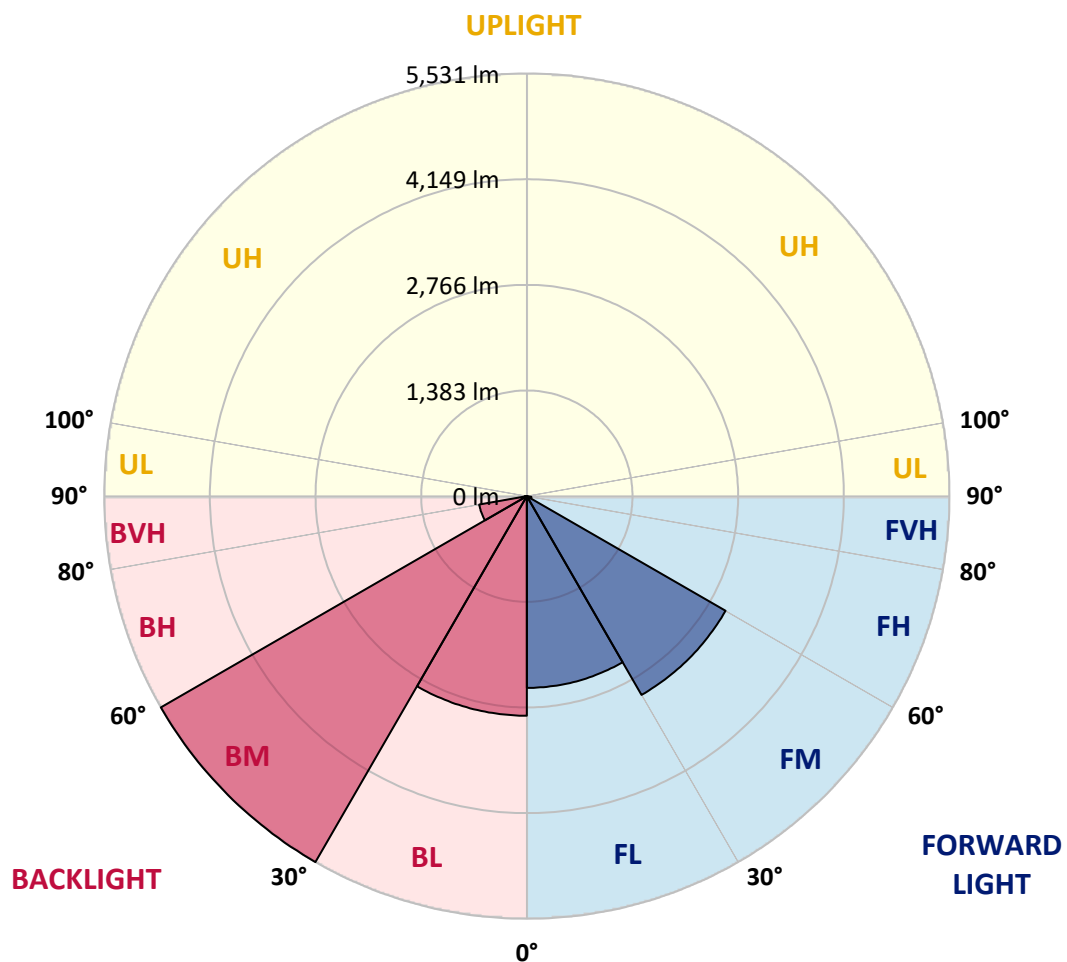
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2509.5	17.1			
FM (30°-60°)	3003.8	20.5			
FH (60°-80°)	60.2	0.4			G0/660
FVH (80°-90°)	4.3	0.0			G0/10
BL (0°-30°)	2873.9	19.6	B4/5000		
BM (30°-60°)	5531.5	37.8	B4/8500		
BH (60°-80°)	632.7	4.3	B2/1000		G2/1000
BVH (80°-90°)	28.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6318.6	6318.6	6318.6	6318.6	6318.6	6318.6	6318.6	6318.6	6318.6	6318.6
2.5°	6346.5	6305.7	6266.9	6254.0	6307.8	6365.9	6329.3	6331.5	6318.6	6342.2
5°	6393.9	6337.9	6312.1	6292.7	6301.3	6361.6	6310.0	6329.3	6307.8	6335.8
7.5°	6376.7	6337.9	6312.1	6275.5	6303.5	6374.5	6325.0	6327.2	6316.4	6342.2
10°	6365.9	6337.9	6305.7	6310.0	6342.2	6402.5	6363.8	6385.3	6370.2	6385.3
12.5°	6391.7	6361.6	6344.4	6344.4	6372.4	6441.2	6421.9	6441.2	6434.8	6447.7
15°	6148.5	6176.5	6340.1	6413.3	6469.2	6538.1	6529.5	6548.8	6553.1	6572.5
17.5°	5186.6	5158.6	5145.7	5522.3	6523.0	6736.1	6729.6	6727.5	6705.9	6690.9
20°	5313.5	5302.8	5287.7	5315.7	5427.6	6839.4	6882.4	6617.7	6540.2	6533.8
22.5°	5515.8	5498.6	5442.7	5444.8	5479.2	5946.3	6669.4	6428.3	6402.5	6387.4
25°	5614.8	5580.4	5535.2	5522.3	5533.0	5447.0	5957.0	6243.2	6116.3	6058.2
27.5°	5440.5	5442.7	5406.1	5440.5	5399.6	5012.2	4794.9	5881.7	5877.4	5851.6
30°	5309.2	5302.8	5259.7	5302.8	5020.8	4588.3	4495.7	5485.7	5440.5	5406.1
32.5°	4906.8	4911.1	5035.9	5203.8	4741.1	4398.9	4119.1	4900.3	5328.6	5309.2
35°	3510.1	3518.7	3962.0	4790.6	4317.1	4022.3	4000.8	4235.3	5152.1	5160.7
37.5°	3378.8	3378.8	3368.0	3503.6	3983.5	3869.5	3912.5	3888.8	4719.6	4741.1
40°	3284.1	3264.7	3249.7	3036.6	2769.8	3761.9	3792.0	3684.4	4461.3	4465.6
42.5°	3170.0	3148.5	3152.8	2759.0	2479.2	3495.0	3411.1	3266.9	4030.9	4035.2
45°	2961.3	2997.9	3023.7	2414.7	2393.1	2496.4	3146.4	3056.0	3740.3	3820.0
47.5°	1506.5	1538.8	2360.9	2221.0	2270.5	2218.8	2657.8	2660.0	3111.9	3376.6
50°	1366.6	1358.0	1360.1	1295.6	2096.1	1794.9	1921.8	2438.3	2492.1	2870.9
52.5°	1274.0	1271.9	1140.6	1013.6	1317.1	1579.6	1394.6	1764.7	1853.0	2431.9
55°	942.6	1011.5	899.6	953.4	824.3	1265.4	1259.0	1592.6	1622.7	1949.8
57.5°	8.6	10.8	25.8	725.3	570.3	632.7	869.4	1086.8	1140.6	1519.4
60°	2.2	4.3	10.8	21.5	370.2	389.5	581.1	628.4	708.0	906.0
62.5°	0.0	0.0	4.3	10.8	19.4	159.3	185.1	202.3	312.1	462.7
65°	0.0	0.0	2.2	6.5	10.8	25.8	45.2	94.7	135.6	167.9
67.5°	0.0	0.0	2.2	4.3	8.6	12.9	25.8	36.6	58.1	99.0
70°	0.0	0.0	2.2	4.3	6.5	10.8	17.2	25.8	34.4	49.5
72.5°	0.0	0.0	2.2	4.3	4.3	12.9	12.9	19.4	25.8	32.3
75°	0.0	0.0	2.2	2.2	4.3	8.6	12.9	15.1	17.2	25.8
77.5°	0.0	0.0	2.2	4.3	6.5	8.6	10.8	17.2	15.1	15.1
80°	0.0	0.0	2.2	6.5	6.5	10.8	12.9	17.2	10.8	10.8
82.5°	0.0	0.0	2.2	8.6	6.5	21.5	21.5	23.7	8.6	8.6
85°	0.0	0.0	6.5	4.3	12.9	21.5	19.4	12.9	10.8	6.5
87.5°	0.0	0.0	2.2	2.2	4.3	6.5	15.1	12.9	4.3	4.3
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°
6318.6	0°	6318.6	6318.6	6318.6	6318.6	6318.6	6318.6	6318.6	6318.6	6318.6
6279.8	2.5°	6365.9	6337.9	6396.0	6389.6	6361.6	6348.7	6333.6	6320.7	6226.0
6284.1	5°	6368.1	6325.0	6396.0	6383.1	6378.8	6357.3	6344.4	6363.8	6277.7
6301.3	7.5°	6368.1	6325.0	6402.5	6406.8	6400.3	6383.1	6381.0	6393.9	6322.9
6331.5	10°	6411.1	6393.9	6458.5	6464.9	6456.3	6452.0	6441.2	6432.6	6357.3
6434.8	12.5°	6501.5	6467.1	6540.2	6559.6	6553.1	6563.9	6538.1	6551.0	6473.5
6540.2	15°	6611.3	6613.4	6669.4	6712.4	6708.1	6742.5	6703.8	6738.2	6682.3
6660.7	17.5°	6779.1	6802.8	6882.4	6947.0	6970.7	6996.5	6970.7	6981.4	6901.8
6527.3	20°	6602.6	6690.9	7074.0	7192.3	7241.8	7265.5	7222.4	7235.4	7155.7
6363.8	22.5°	6443.4	6557.4	6897.5	7267.6	7420.4	7467.8	7452.7	7450.6	7420.4
6040.9	25°	6208.8	6439.1	6591.9	6983.6	7463.5	7549.6	7558.2	7556.0	7510.8
5843.0	27.5°	5920.4	5972.1	6368.1	6606.9	7162.2	7489.3	7476.4	7414.0	7353.7
5431.9	30°	5552.4	5787.0	5965.6	6346.5	6772.7	7304.2	7304.2	7256.9	7194.5
5285.6	32.5°	5365.2	5668.6	5834.3	5972.1	6335.8	7097.6	7183.7	7134.2	7084.7
5171.5	35°	5266.2	5311.4	5698.8	5823.6	6131.3	6699.5	7048.1	6998.6	6962.0
4868.0	37.5°	5048.8	5154.3	5335.1	5668.6	5763.3	6374.5	6867.4	6841.5	6798.5
4474.2	40°	4564.6	4846.5	5124.1	5440.5	5539.5	5957.0	6647.8	6658.6	6600.5
4054.6	42.5°	4278.4	4469.9	4904.6	5117.7	5384.6	5688.0	6434.8	6452.0	6411.1
3841.5	45°	3942.6	4155.7	4461.3	4848.7	5212.4	5317.8	6058.2	6238.9	6204.5
3417.5	47.5°	3634.9	3807.1	4181.5	4573.2	4975.7	4960.6	5625.6	5965.6	5918.3
3092.6	50°	3198.0	3499.3	3675.8	4035.2	4635.6	4676.5	5165.0	5645.0	5606.2
2627.7	52.5°	2696.6	3075.4	3413.2	3742.5	4291.3	4388.1	4736.8	5317.8	5292.0
2007.9	55°	2356.5	2632.0	3012.9	3277.6	3873.8	4132.0	4416.1	5005.8	4992.9
1650.7	57.5°	1676.5	2208.1	2522.3	2892.4	3206.6	3673.6	3884.5	4370.9	4250.4
914.6	60°	1136.3	1386.0	1769.0	2167.2	2378.1	2845.1	3040.9	3430.4	3398.2
546.6	62.5°	600.4	830.7	1104.0	1304.2	1457.0	1911.1	1992.8	2412.5	2401.7
219.5	65°	264.7	350.8	598.3	701.6	858.7	1069.6	1140.6	1291.3	1254.7
107.6	67.5°	137.7	208.8	337.9	415.4	523.0	602.6	660.7	708.0	738.2
71.0	70°	83.9	152.8	208.8	288.4	359.4	424.0	469.2	533.7	572.5
36.6	72.5°	62.4	96.8	144.2	221.7	260.4	335.7	380.9	428.3	462.7
30.1	75°	34.4	64.6	116.2	174.3	208.8	273.3	314.2	346.5	357.2
17.2	77.5°	21.5	49.5	96.8	135.6	163.6	221.7	210.9	241.0	266.9
12.9	80°	15.1	36.6	75.3	111.9	114.1	142.0	167.9	193.7	210.9
8.6	82.5°	10.8	30.1	56.0	86.1	75.3	109.8	131.3	150.6	109.8
6.5	85°	8.6	21.5	28.0	51.7	43.0	77.5	66.7	64.6	43.0
4.3	87.5°	6.5	10.8	19.4	23.7	17.2	17.2	21.5	25.8	21.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6318.6
6161.5
6204.5
6241.1
6294.9
6404.6
6589.7
6832.9
7099.8
7323.6
7442.0
7306.4
7170.8
7043.8
6910.4
6755.4
6587.6
6406.8
6208.8
5952.7
5612.7
5309.2
5007.9
4237.5
3400.3
2403.9
1239.6
738.2
574.6
469.2
350.8
271.2
213.1
79.6
43.0
21.5
0.0

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