

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: P638426

Luminaire Tested: **IFLD-S-SA3C-740-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638426
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-740-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15611.9 lumens
Efficiency: N/A
Efficacy: 97.1 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

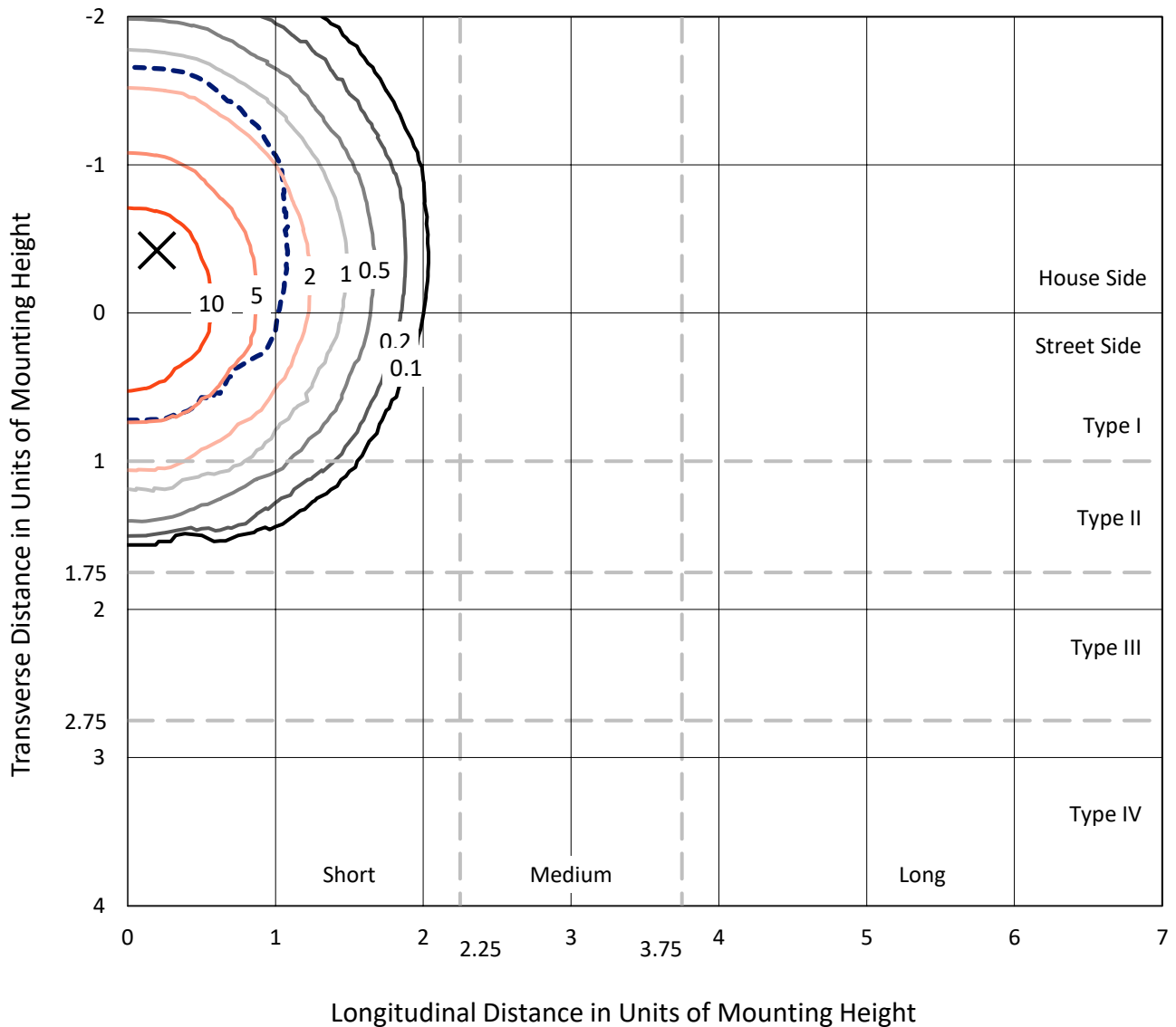
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

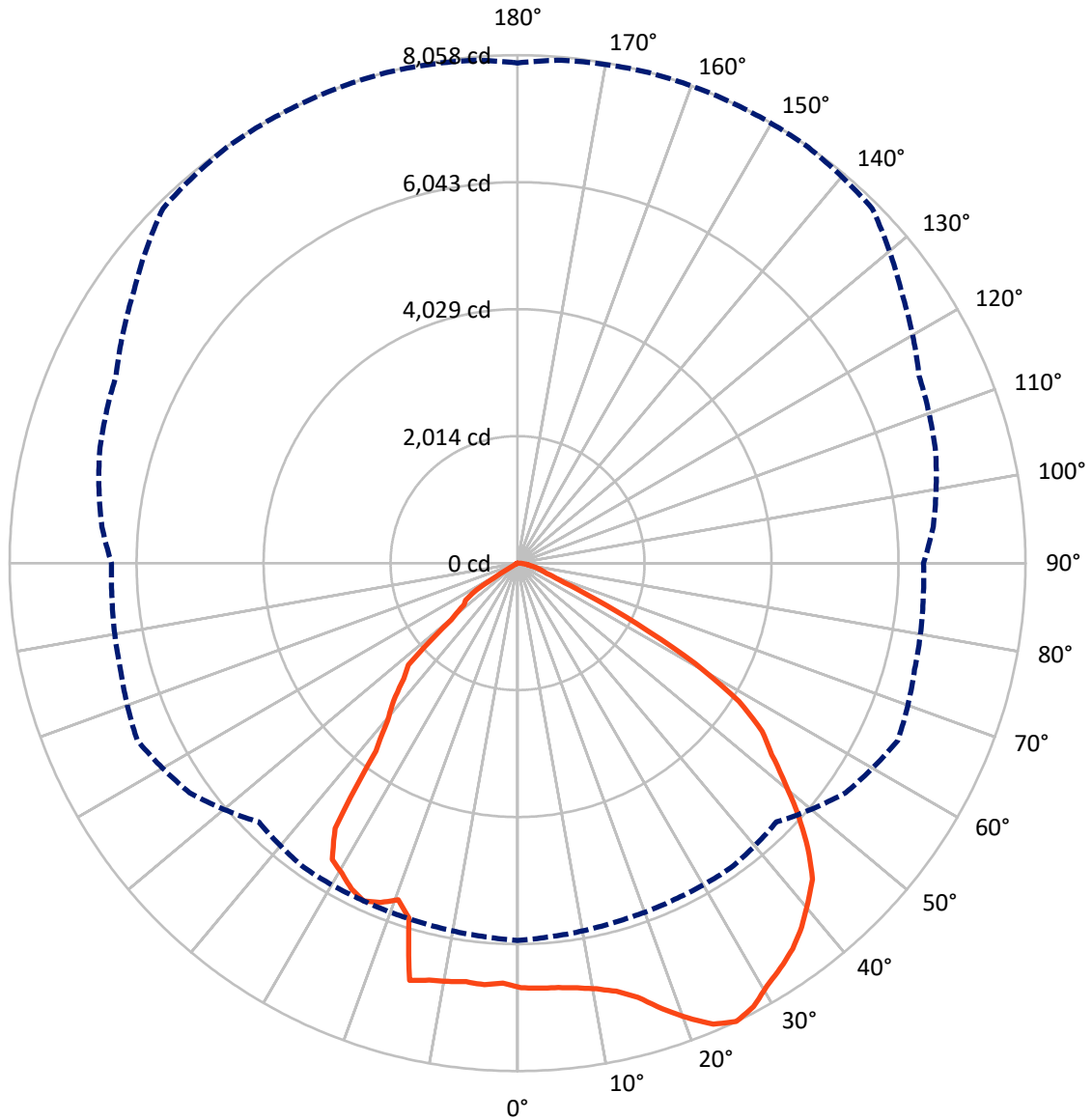
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 16.8 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	9665.4	0.0	9665.4
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	5946.5	0.0	5946.5
	% Fixture	38.1	0.0	38.1
Total	Lumens	15611.9	0.0	15611.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	646.3	4.1
10°-20°	1973.3	12.6
20°-30°	3119.7	20.0
30°-40°	3524.0	22.6
40°-50°	3300.3	21.1
50°-60°	2275.3	14.6
60°-70°	611.3	3.9
70°-80°	127.4	0.8
80°-90°	34.5	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°	15611.9	100.0
0°-180°	15611.9	100.0



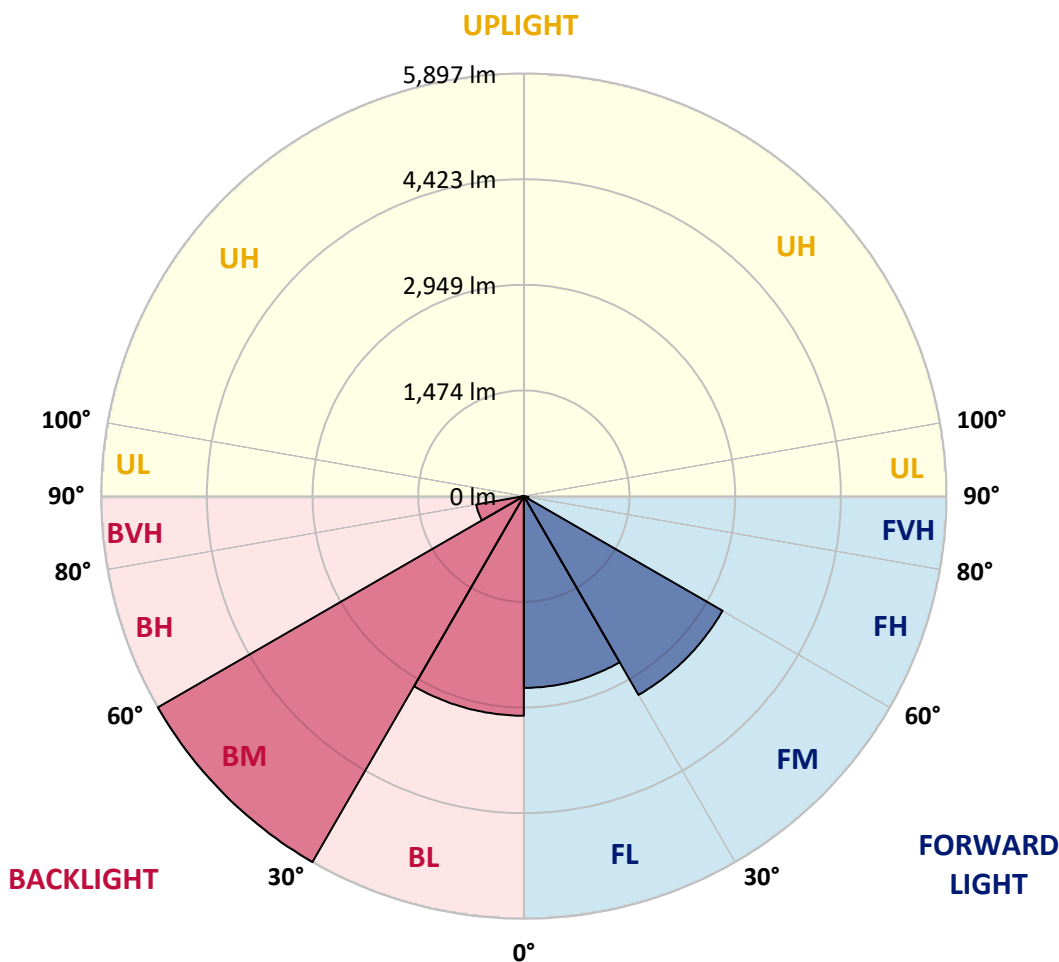
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2675.4	17.1			
FM (30°-60°)	3202.3	20.5			
FH (60°-80°)	64.2	0.4			G0/660
FVH (80°-90°)	4.6	0.0			G0/10
BL (0°-30°)	3063.9	19.6	B4/5000		
BM (30°-60°)	5897.2	37.8	B4/8500		
BH (60°-80°)	674.5	4.3	B2/1000		G2/1000
BVH (80°-90°)	29.8	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°	6736.3	6736.3	6736.3	6736.3	6736.3	6736.3	6736.3	6736.3	6736.3	6736.3
2.5°	6766.1	6722.5	6681.2	6667.4	6724.8	6786.7	6747.7	6750.0	6736.3	6761.5
5°	6816.6	6756.9	6729.4	6708.7	6717.9	6782.1	6727.1	6747.7	6724.8	6754.6
7.5°	6798.2	6756.9	6729.4	6690.4	6720.2	6795.9	6743.1	6745.4	6734.0	6761.5
10°	6786.7	6756.9	6722.5	6727.1	6761.5	6825.7	6784.4	6807.4	6791.3	6807.4
12.5°	6814.3	6782.1	6763.8	6763.8	6793.6	6867.0	6846.4	6867.0	6860.1	6873.9
15°	6555.0	6584.8	6759.2	6837.2	6896.9	6970.3	6961.1	6981.8	6986.3	7007.0
17.5°	5529.4	5499.6	5485.8	5887.3	6954.2	7181.4	7174.5	7172.2	7149.2	7133.2
20°	5664.8	5653.3	5637.3	5667.1	5786.4	7291.5	7337.4	7055.2	6972.6	6965.7
22.5°	5880.5	5862.1	5802.4	5804.7	5841.5	6339.3	7110.2	6853.3	6825.7	6809.7
25°	5986.0	5949.3	5901.1	5887.3	5898.8	5807.0	6350.8	6656.0	6520.6	6458.6
27.5°	5800.2	5802.4	5763.4	5800.2	5756.6	5343.6	5111.8	6270.5	6265.9	6238.4
30°	5660.2	5653.3	5607.4	5653.3	5352.8	4891.6	4792.9	5848.3	5800.2	5763.4
32.5°	5231.2	5235.7	5368.8	5547.8	5054.5	4689.7	4391.4	5224.3	5680.8	5660.2
35°	3742.1	3751.3	4223.9	5107.3	4602.5	4288.2	4265.2	4515.3	5492.7	5501.9
37.5°	3602.2	3602.2	3590.7	3735.2	4246.9	4125.3	4171.2	4145.9	5031.5	5054.5
40°	3501.2	3480.6	3464.5	3237.3	2952.8	4010.5	4042.7	3928.0	4756.2	4760.8
42.5°	3379.6	3356.7	3361.2	2941.4	2643.1	3726.0	3636.6	3482.8	4297.3	4301.9
45°	3157.0	3196.0	3223.6	2574.3	2551.3	2661.5	3354.4	3258.0	3987.6	4072.5
47.5°	1606.1	1640.5	2516.9	2367.8	2420.6	2365.5	2833.5	2835.8	3317.7	3599.9
50°	1456.9	1447.7	1450.0	1381.2	2234.7	1913.5	2048.9	2599.5	2656.9	3060.7
52.5°	1358.3	1356.0	1216.0	1080.6	1404.2	1684.1	1486.7	1881.4	1975.4	2592.6
55°	1004.9	1078.4	959.0	1016.4	878.7	1349.1	1342.2	1697.8	1730.0	2078.7
57.5°	9.2	11.5	27.5	773.2	608.0	674.5	926.9	1158.7	1216.0	1619.8
60°	2.3	4.6	11.5	22.9	394.6	415.3	619.5	670.0	754.8	965.9
62.5°	0.0	0.0	4.6	11.5	20.6	169.8	197.3	215.7	332.7	493.3
65°	0.0	0.0	2.3	6.9	11.5	27.5	48.2	101.0	144.5	179.0
67.5°	0.0	0.0	2.3	4.6	9.2	13.8	27.5	39.0	61.9	105.5
70°	0.0	0.0	2.3	4.6	6.9	11.5	18.4	27.5	36.7	52.8
72.5°	0.0	0.0	2.3	4.6	4.6	13.8	13.8	20.6	27.5	34.4
75°	0.0	0.0	2.3	2.3	4.6	9.2	13.8	16.1	18.4	27.5
77.5°	0.0	0.0	2.3	4.6	6.9	9.2	11.5	18.4	16.1	16.1
80°	0.0	0.0	2.3	6.9	6.9	11.5	13.8	18.4	11.5	11.5
82.5°	0.0	0.0	2.3	9.2	6.9	22.9	22.9	25.2	9.2	9.2
85°	0.0	0.0	6.9	4.6	13.8	22.9	20.6	13.8	11.5	6.9
87.5°	0.0	0.0	2.3	2.3	4.6	6.9	16.1	13.8	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°
6736.3	0°	6736.3	6736.3	6736.3	6736.3	6736.3	6736.3	6736.3	6736.3	6736.3
6695.0	2.5°	6786.7	6756.9	6818.9	6812.0	6782.1	6768.4	6752.3	6738.5	6637.6
6699.5	5°	6789.0	6743.1	6818.9	6805.1	6800.5	6777.6	6763.8	6784.4	6692.7
6717.9	7.5°	6789.0	6743.1	6825.7	6830.3	6823.4	6805.1	6802.8	6816.6	6740.8
6750.0	10°	6834.9	6816.6	6885.4	6892.3	6883.1	6878.5	6867.0	6857.9	6777.6
6860.1	12.5°	6931.3	6894.6	6972.6	6993.2	6986.3	6997.8	6970.3	6984.0	6901.4
6972.6	15°	7048.3	7050.6	7110.2	7156.1	7151.5	7188.2	7146.9	7183.7	7124.0
7101.1	17.5°	7227.2	7252.5	7337.4	7406.2	7431.4	7459.0	7431.4	7442.9	7358.0
6958.8	20°	7039.1	7133.2	7541.6	7667.8	7720.5	7745.8	7699.9	7713.7	7628.8
6784.4	22.5°	6869.3	6990.9	7353.4	7748.1	7911.0	7961.4	7945.4	7943.1	7911.0
6440.3	25°	6619.2	6864.7	7027.6	7445.2	7956.9	8048.6	8057.8	8055.5	8007.3
6229.2	27.5°	6311.8	6366.9	6789.0	7043.7	7635.6	7984.4	7970.6	7904.1	7839.8
5791.0	30°	5919.5	6169.5	6360.0	6766.1	7220.4	7787.1	7787.1	7736.6	7670.1
5635.0	32.5°	5719.9	6043.4	6220.0	6366.9	6754.6	7566.8	7658.6	7605.8	7553.0
5513.4	35°	5614.3	5662.5	6075.5	6208.6	6536.6	7142.4	7514.0	7461.3	7422.3
5189.9	37.5°	5382.6	5495.0	5687.7	6043.4	6144.3	6795.9	7321.3	7293.8	7247.9
4770.0	40°	4866.3	5166.9	5462.9	5800.2	5905.7	6350.8	7087.3	7098.8	7036.8
4322.6	42.5°	4561.2	4765.4	5228.9	5456.0	5740.5	6064.0	6860.1	6878.5	6834.9
4095.4	45°	4203.3	4430.4	4756.2	5169.2	5557.0	5669.4	6458.6	6651.4	6614.7
3643.5	47.5°	3875.2	4058.7	4458.0	4875.5	5304.6	5288.5	5997.5	6360.0	6309.5
3297.0	50°	3409.4	3730.6	3918.8	4301.9	4942.1	4985.7	5506.5	6018.1	5976.8
2801.4	52.5°	2874.8	3278.6	3638.9	3989.9	4575.0	4678.2	5049.9	5669.4	5641.8
2140.6	55°	2512.3	2806.0	3212.1	3494.3	4129.9	4405.2	4708.0	5336.7	5322.9
1759.8	57.5°	1787.3	2354.0	2689.0	3083.6	3418.6	3916.5	4141.3	4659.9	4531.4
975.1	60°	1211.4	1477.6	1886.0	2310.4	2535.3	3033.1	3241.9	3657.2	3622.8
582.8	62.5°	640.1	885.6	1177.0	1390.4	1553.3	2037.4	2124.6	2572.0	2560.5
234.0	65°	282.2	374.0	637.8	748.0	915.5	1140.3	1216.0	1376.6	1337.6
114.7	67.5°	146.8	222.6	360.2	442.8	557.5	642.4	704.4	754.8	787.0
75.7	70°	89.5	162.9	222.6	307.4	383.2	452.0	500.2	569.0	610.3
39.0	72.5°	66.5	103.2	153.7	236.3	277.6	357.9	406.1	456.6	493.3
32.1	75°	36.7	68.8	123.9	185.8	222.6	291.4	335.0	369.4	380.9
18.4	77.5°	22.9	52.8	103.2	144.5	174.4	236.3	224.8	257.0	284.5
13.8	80°	16.1	39.0	80.3	119.3	121.6	151.4	179.0	206.5	224.8
9.2	82.5°	11.5	32.1	59.7	91.8	80.3	117.0	140.0	160.6	117.0
6.9	85°	9.2	22.9	29.8	55.1	45.9	82.6	71.1	68.8	45.9
4.6	87.5°	6.9	11.5	20.6	25.2	18.4	18.4	22.9	27.5	22.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6736.3
6568.8
6614.7
6653.7
6711.0
6828.0
7025.3
7284.6
7569.1
7807.7
7933.9
7789.4
7644.8
7509.5
7367.2
7202.0
7023.0
6830.3
6619.2
6346.2
5983.7
5660.2
5339.0
4517.6
3625.1
2562.8
1321.6
787.0
612.6
500.2
374.0
289.1
227.1
84.9
45.9
22.9
0.0

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