

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: P638321

Luminaire Tested: **IFLD-M-SA4D-722-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638321
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-722-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16984.1 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

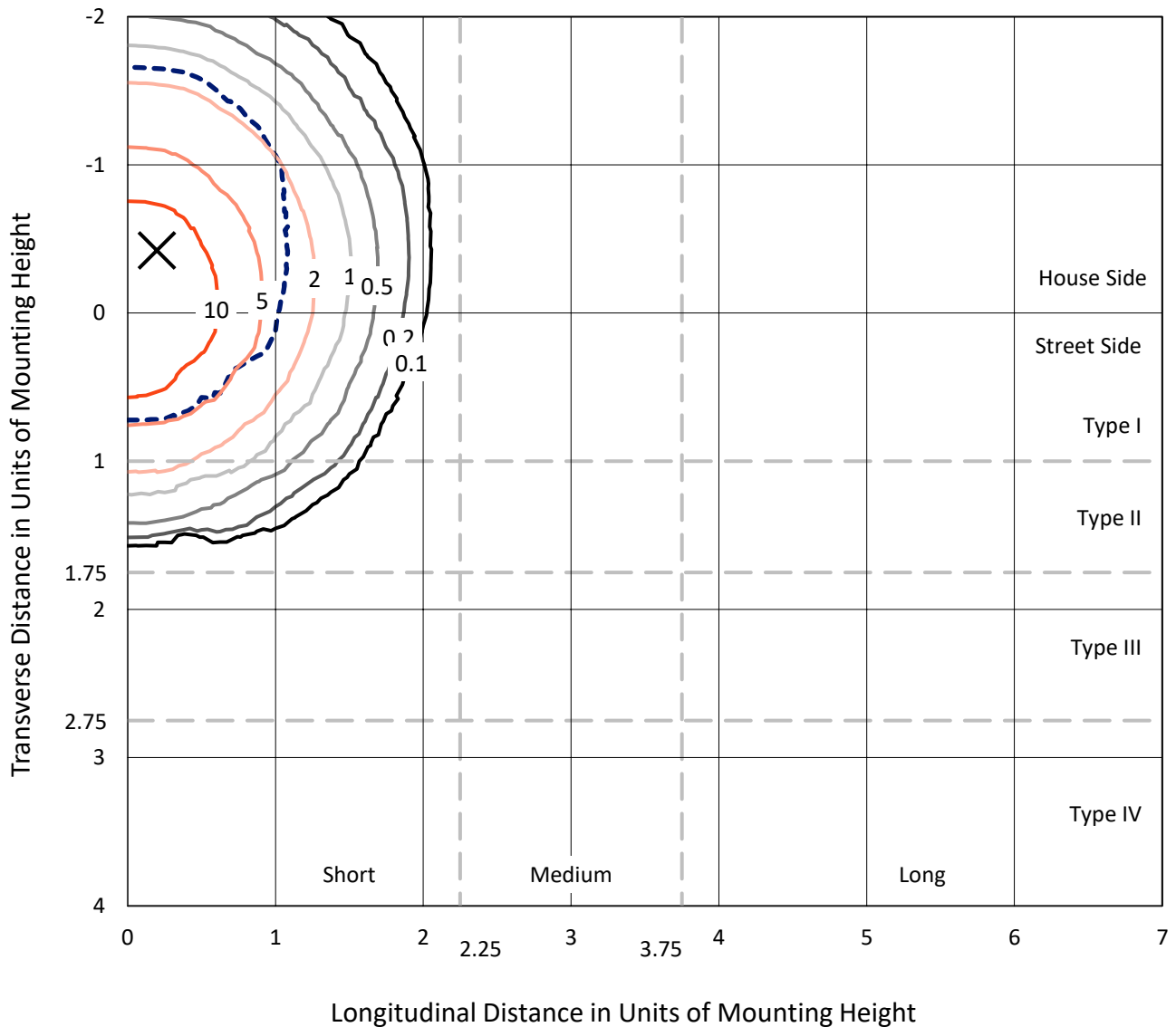
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

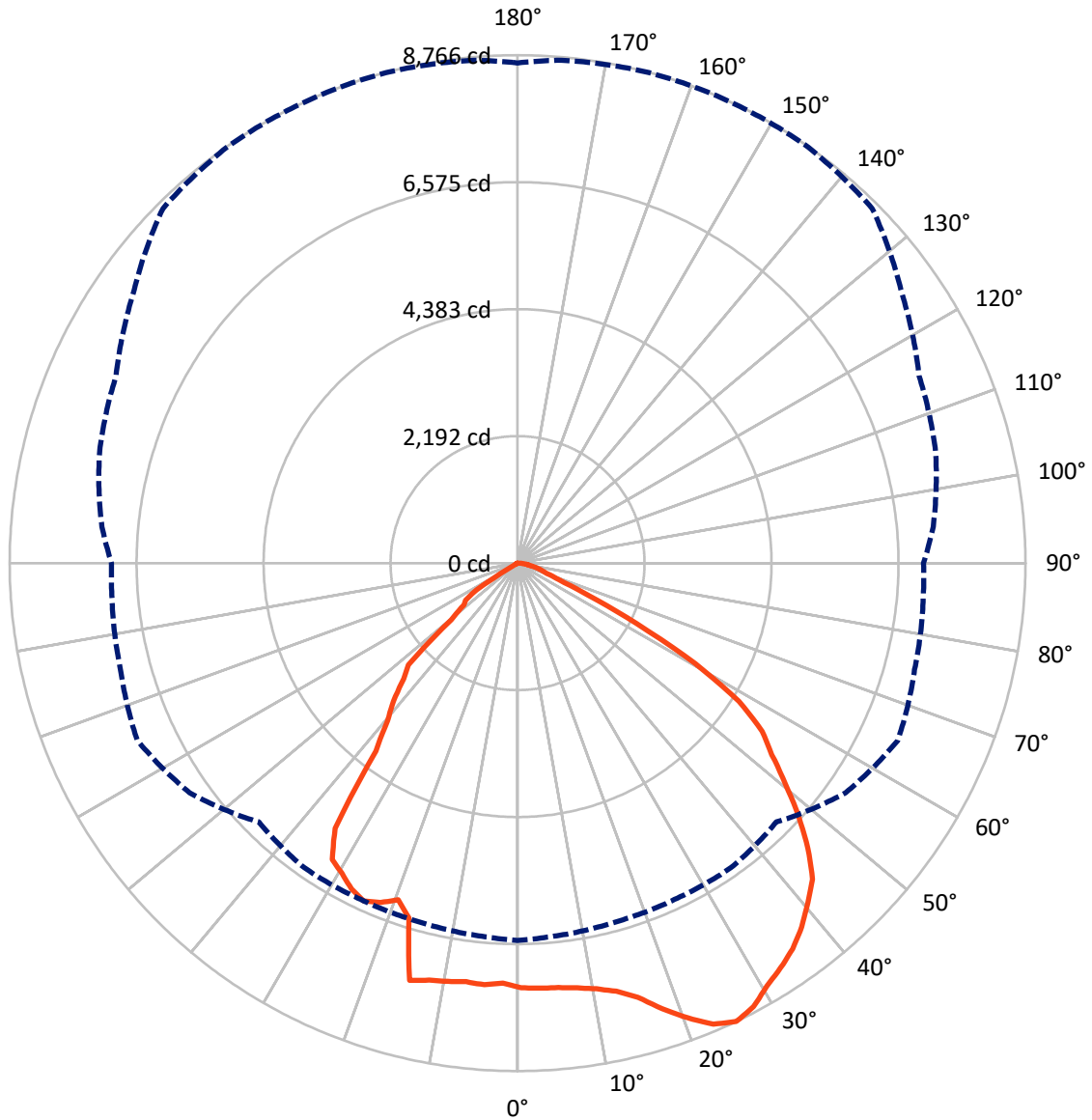
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 18.3 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	10514.9	0.0	10514.9
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	6469.2	0.0	6469.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	16984.1	0.0	16984.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	703.1	4.1
10°-20°	2146.7	12.6
20°-30°	3393.9	20.0
30°-40°	3833.7	22.6
40°-50°	3590.3	21.1
50°-60°	2475.3	14.6
60°-70°	665.0	3.9
70°-80°	138.6	0.8
80°-90°	37.5	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°	16984.1	100.0
0°-180°	16984.1	100.0



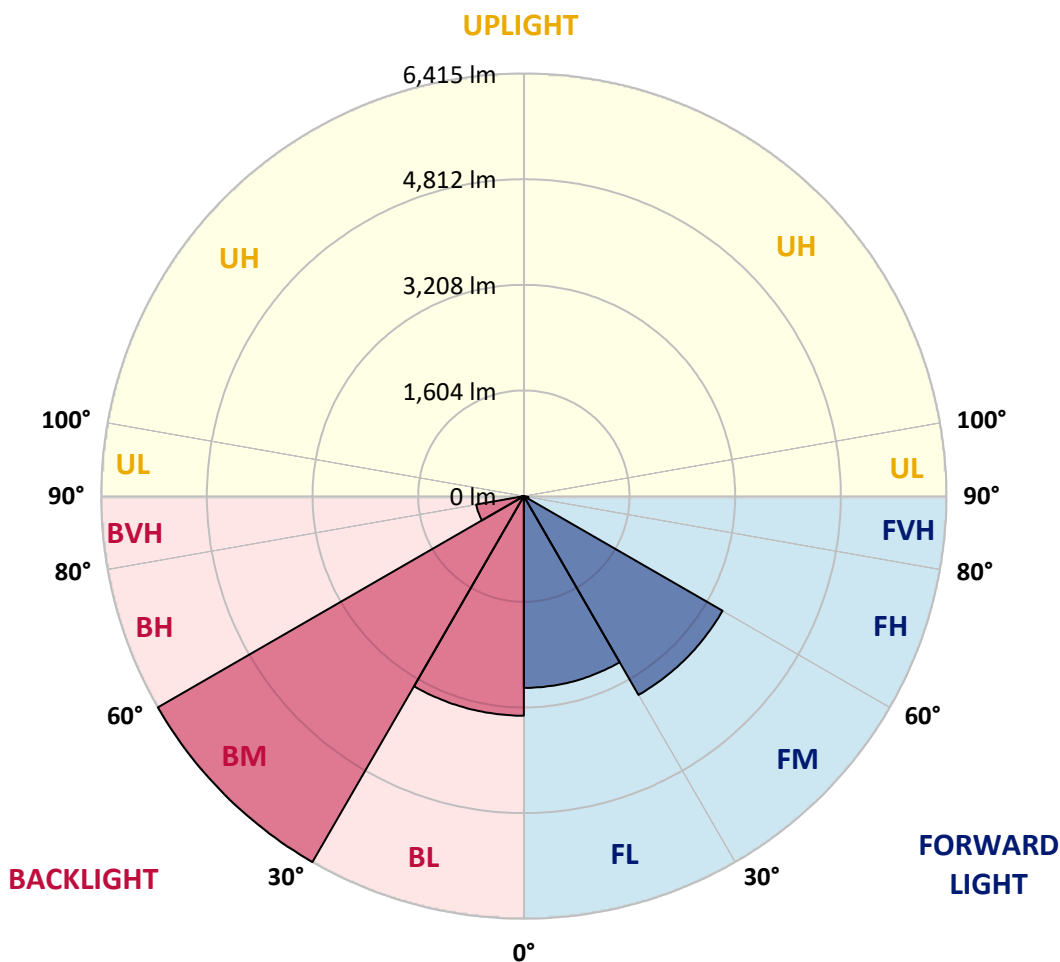
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2910.5	17.1			
FM (30°-60°)	3483.8	20.5			
FH (60°-80°)	69.8	0.4			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	3333.2	19.6	B4/5000		
BM (30°-60°)	6415.5	37.8	B4/8500		
BH (60°-80°)	733.8	4.3	B2/1000		G2/1000
BVH (80°-90°)	32.5	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°	7328.3	7328.3	7328.3	7328.3	7328.3	7328.3	7328.3	7328.3	7328.3	7328.3
2.5°	7360.8	7313.4	7268.4	7253.4	7315.8	7383.2	7340.8	7343.3	7328.3	7355.8
5°	7415.7	7350.8	7320.8	7298.4	7308.4	7378.2	7318.3	7340.8	7315.8	7348.3
7.5°	7395.7	7350.8	7320.8	7278.4	7310.9	7393.2	7335.8	7338.3	7325.8	7355.8
10°	7383.2	7350.8	7313.4	7318.3	7355.8	7425.7	7380.7	7405.7	7388.2	7405.7
12.5°	7413.2	7378.2	7358.3	7358.3	7390.7	7470.6	7448.1	7470.6	7463.1	7478.1
15°	7131.1	7163.6	7353.3	7438.2	7503.1	7582.9	7572.9	7595.4	7600.4	7622.9
17.5°	6015.4	5983.0	5968.0	6404.8	7565.5	7812.6	7805.1	7802.6	7777.6	7760.1
20°	6162.7	6150.2	6132.7	6165.2	6295.0	7932.4	7982.3	7675.3	7585.4	7577.9
22.5°	6397.3	6377.3	6312.4	6314.9	6354.9	6896.5	7735.2	7455.6	7425.7	7408.2
25°	6512.1	6472.2	6419.8	6404.8	6417.3	6317.4	6909.0	7241.0	7093.7	7026.3
27.5°	6310.0	6312.4	6270.0	6310.0	6262.5	5813.2	5561.1	6821.6	6816.6	6786.7
30°	6157.7	6150.2	6100.3	6150.2	5823.2	5321.5	5214.2	6362.4	6310.0	6270.0
32.5°	5690.9	5695.9	5840.7	6035.4	5498.7	5101.9	4777.4	5683.4	6180.2	6157.7
35°	4071.0	4081.0	4595.2	5556.2	5007.0	4665.1	4640.1	4912.2	5975.5	5985.5
37.5°	3918.8	3918.8	3906.3	4063.5	4620.1	4487.9	4537.8	4510.3	5473.8	5498.7
40°	3808.9	3786.5	3769.0	3521.9	3212.4	4363.1	4398.0	4273.2	5174.3	5179.3
42.5°	3676.6	3651.7	3656.7	3199.9	2875.4	4053.5	3956.2	3789.0	4675.1	4680.0
45°	3434.5	3477.0	3506.9	2800.5	2775.6	2895.4	3649.2	3544.4	4338.1	4430.4
47.5°	1747.2	1784.7	2738.1	2575.9	2633.3	2573.4	3082.6	3085.1	3609.3	3916.3
50°	1585.0	1575.0	1577.5	1502.6	2431.1	2081.7	2228.9	2828.0	2890.4	3329.7
52.5°	1477.6	1475.2	1322.9	1175.6	1527.6	1832.1	1617.4	2046.7	2149.1	2820.5
55°	1093.3	1173.1	1043.3	1105.7	956.0	1467.7	1460.2	1847.1	1882.0	2261.4
57.5°	10.0	12.5	30.0	841.2	661.4	733.8	1008.4	1260.5	1322.9	1762.2
60°	2.5	5.0	12.5	25.0	429.3	451.8	673.9	728.8	821.2	1050.8
62.5°	0.0	0.0	5.0	12.5	22.5	184.7	214.7	234.6	361.9	536.6
65°	0.0	0.0	2.5	7.5	12.5	30.0	52.4	109.8	157.2	194.7
67.5°	0.0	0.0	2.5	5.0	10.0	15.0	30.0	42.4	67.4	114.8
70°	0.0	0.0	2.5	5.0	7.5	12.5	20.0	30.0	39.9	57.4
72.5°	0.0	0.0	2.5	5.0	5.0	15.0	15.0	22.5	30.0	37.4
75°	0.0	0.0	2.5	2.5	5.0	10.0	15.0	17.5	20.0	30.0
77.5°	0.0	0.0	2.5	5.0	7.5	10.0	12.5	20.0	17.5	17.5
80°	0.0	0.0	2.5	7.5	7.5	12.5	15.0	20.0	12.5	12.5
82.5°	0.0	0.0	2.5	10.0	7.5	25.0	25.0	27.5	10.0	10.0
85°	0.0	0.0	7.5	5.0	15.0	25.0	22.5	15.0	12.5	7.5
87.5°	0.0	0.0	2.5	2.5	5.0	7.5	17.5	15.0	5.0	5.0
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°
7328.3	0°	7328.3	7328.3	7328.3	7328.3	7328.3	7328.3	7328.3	7328.3	7328.3
7283.4	2.5°	7383.2	7350.8	7418.2	7410.7	7378.2	7363.3	7345.8	7330.8	7221.0
7288.4	5°	7385.7	7335.8	7418.2	7403.2	7398.2	7373.3	7358.3	7380.7	7280.9
7308.4	7.5°	7385.7	7335.8	7425.7	7430.7	7423.2	7403.2	7400.7	7415.7	7333.3
7343.3	10°	7435.7	7415.7	7490.6	7498.1	7488.1	7483.1	7470.6	7460.6	7373.3
7463.1	12.5°	7540.5	7500.6	7585.4	7607.9	7600.4	7612.9	7582.9	7597.9	7508.0
7585.4	15°	7667.8	7670.3	7735.2	7785.1	7780.1	7820.0	7775.1	7815.1	7750.2
7725.2	17.5°	7862.5	7889.9	7982.3	8057.2	8084.6	8114.6	8084.6	8097.1	8004.8
7570.4	20°	7657.8	7760.1	8204.4	8341.7	8399.1	8426.6	8376.7	8391.6	8299.3
7380.7	22.5°	7473.1	7605.4	7999.8	8429.1	8606.3	8661.2	8643.7	8641.2	8606.3
7006.3	25°	7201.0	7468.1	7645.3	8099.6	8656.2	8756.1	8766.0	8763.5	8711.1
6776.7	27.5°	6866.6	6926.5	7385.7	7662.8	8306.8	8686.2	8671.2	8598.8	8528.9
6300.0	30°	6439.7	6711.8	6919.0	7360.8	7855.0	8471.5	8471.5	8416.6	8344.2
6130.2	32.5°	6222.6	6574.5	6766.7	6926.5	7348.3	8231.9	8331.7	8274.3	8216.9
5997.9	35°	6107.8	6160.2	6609.5	6754.2	7111.2	7770.1	8174.5	8117.1	8074.6
5646.0	37.5°	5855.7	5978.0	6187.6	6574.5	6684.4	7393.2	7964.8	7934.9	7884.9
5189.2	40°	5294.1	5621.0	5943.0	6310.0	6424.8	6909.0	7710.2	7722.7	7655.3
4702.5	42.5°	4962.1	5184.2	5688.4	5935.5	6245.1	6597.0	7463.1	7483.1	7435.7
4455.4	45°	4572.7	4819.8	5174.3	5623.5	6045.4	6167.7	7026.3	7236.0	7196.0
3963.7	47.5°	4215.8	4415.5	4849.8	5304.1	5770.8	5753.3	6524.6	6919.0	6864.1
3586.8	50°	3709.1	4058.5	4263.2	4680.0	5376.4	5423.9	5990.5	6547.1	6502.1
3047.6	52.5°	3127.5	3566.8	3958.7	4340.6	4977.1	5089.4	5493.8	6167.7	6137.7
2328.8	55°	2733.1	3052.6	3494.4	3801.4	4492.8	4792.4	5121.8	5805.8	5790.8
1914.5	57.5°	1944.4	2560.9	2925.3	3354.7	3719.1	4260.7	4505.3	5069.4	4929.6
1060.8	60°	1317.9	1607.4	2051.7	2513.5	2758.1	3299.7	3526.9	3978.7	3941.2
634.0	62.5°	696.4	963.5	1280.5	1512.6	1689.8	2216.5	2311.3	2798.0	2785.6
254.6	65°	307.0	406.9	693.9	813.7	995.9	1240.5	1322.9	1497.6	1455.2
124.8	67.5°	159.7	242.1	391.9	481.7	606.5	698.9	766.3	821.2	856.1
82.4	70°	97.3	177.2	242.1	334.5	416.8	491.7	544.1	619.0	663.9
42.4	72.5°	72.4	112.3	167.2	257.1	302.0	389.4	441.8	496.7	536.6
34.9	75°	39.9	74.9	134.8	202.2	242.1	317.0	364.4	401.9	414.3
20.0	77.5°	25.0	57.4	112.3	157.2	189.7	257.1	244.6	279.6	309.5
15.0	80°	17.5	42.4	87.4	129.8	132.3	164.7	194.7	224.6	244.6
10.0	82.5°	12.5	34.9	64.9	99.8	87.4	127.3	152.3	174.7	127.3
7.5	85°	10.0	25.0	32.4	59.9	49.9	89.9	77.4	74.9	49.9
5.0	87.5°	7.5	12.5	22.5	27.5	20.0	20.0	25.0	30.0	25.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7328.3
7146.1
7196.0
7238.5
7300.9
7428.2
7642.8
7924.9
8234.4
8494.0
8631.3
8474.0
8316.8
8169.5
8014.7
7835.0
7640.3
7430.7
7201.0
6904.0
6509.6
6157.7
5808.2
4914.7
3943.7
2788.1
1437.7
856.1
666.4
544.1
406.9
314.5
247.1
92.4
49.9
25.0
0.0

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