

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: P636872

Luminaire Tested: **IFLD-M-SA4E-927-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636872
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-927-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16893.7 lumens
Efficiency: N/A
Efficacy: 53.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

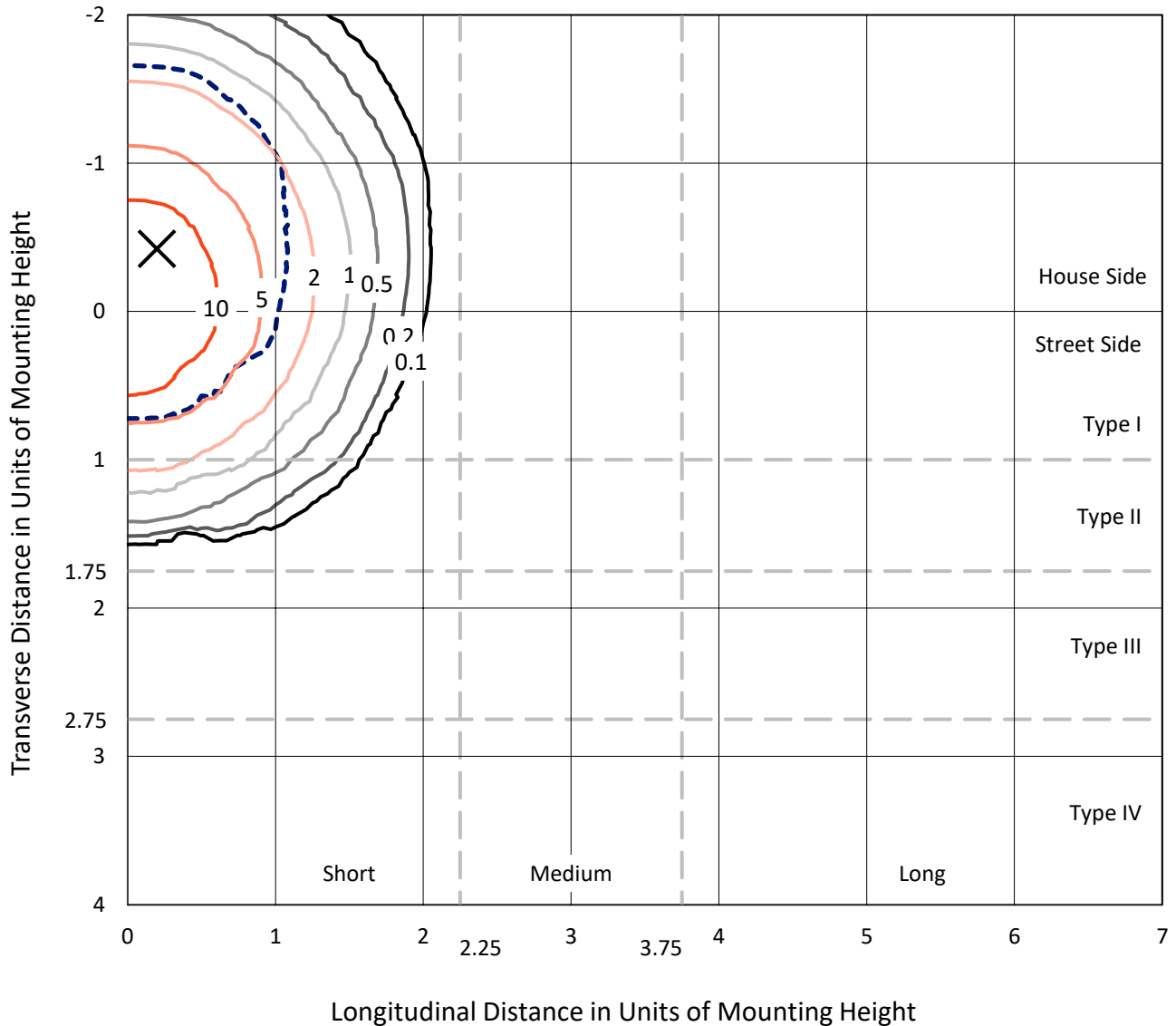
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

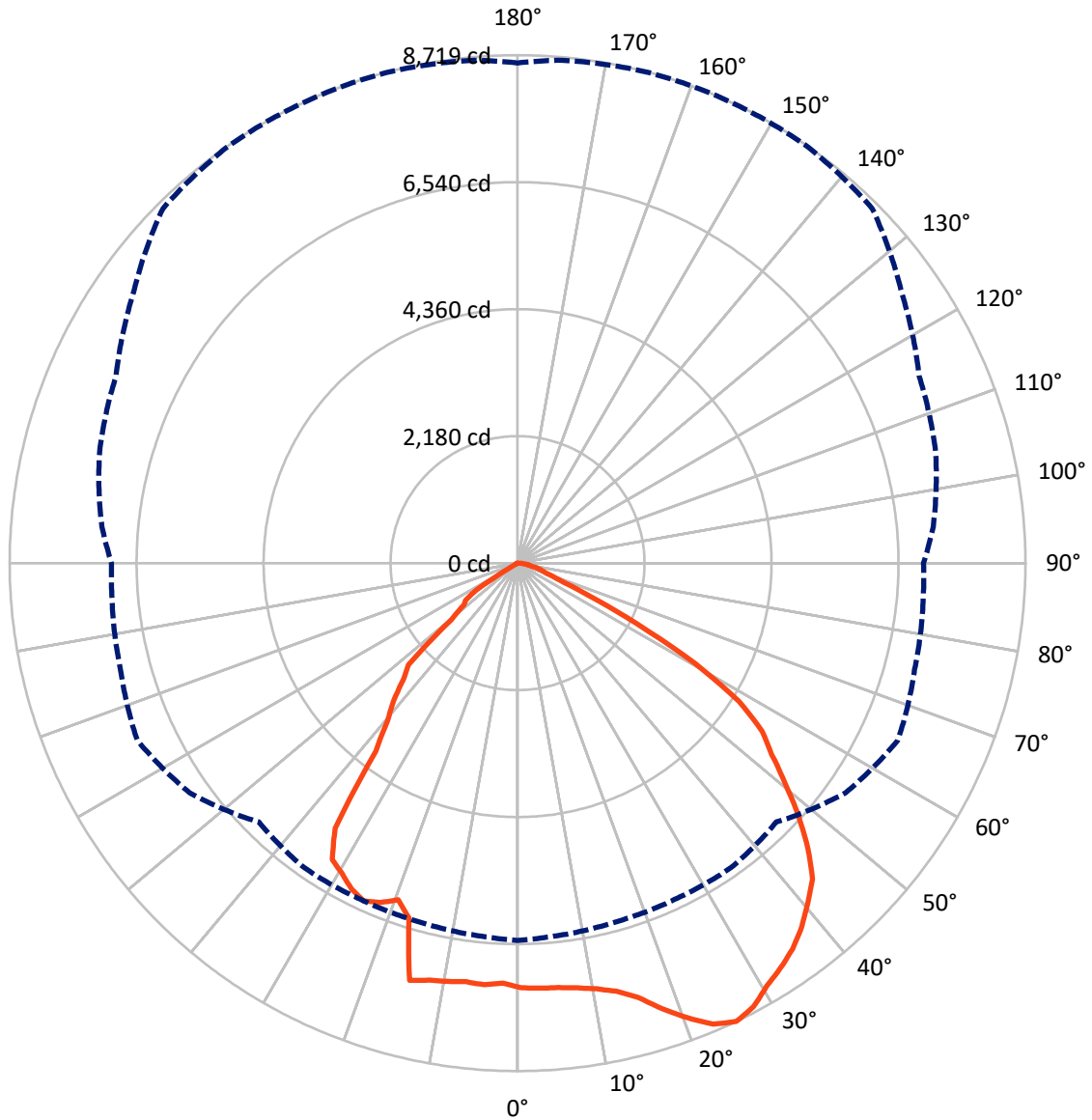
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 18.2 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	10458.9	0.0	10458.9
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	6434.8	0.0	6434.8
	% Fixture	38.1	0.0	38.1
Total	Lumens	16893.7	0.0	16893.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	699.3	4.1
10°-20°	2135.3	12.6
20°-30°	3375.8	20.0
30°-40°	3813.3	22.6
40°-50°	3571.2	21.1
50°-60°	2462.1	14.6
60°-70°	661.5	3.9
70°-80°	137.8	0.8
80°-90°	37.3	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°	16893.7	100.0
0°-180°	16893.7	100.0



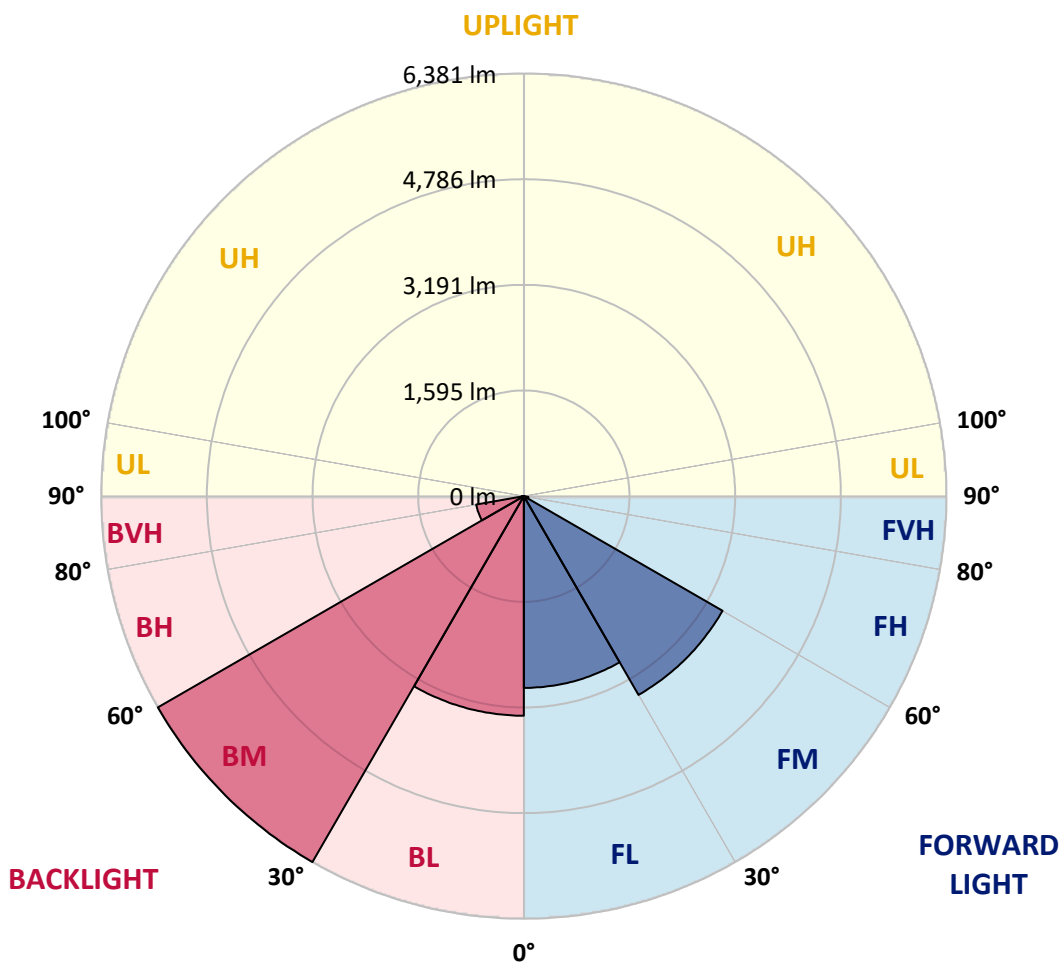
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2895.0	17.1			
FM (30°-60°)	3465.3	20.5			
FH (60°-80°)	69.4	0.4			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	3315.4	19.6	B4/5000		
BM (30°-60°)	6381.3	37.8	B4/8500		
BH (60°-80°)	729.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	32.3	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°	7289.3	7289.3	7289.3	7289.3	7289.3	7289.3	7289.3	7289.3	7289.3	7289.3
2.5°	7321.6	7274.4	7229.7	7214.9	7276.9	7344.0	7301.7	7304.2	7289.3	7316.6
5°	7376.2	7311.7	7281.9	7259.5	7269.5	7339.0	7279.4	7301.7	7276.9	7309.2
7.5°	7356.4	7311.7	7281.9	7239.7	7272.0	7353.9	7296.8	7299.3	7286.9	7316.6
10°	7344.0	7311.7	7274.4	7279.4	7316.6	7386.2	7341.5	7366.3	7348.9	7366.3
12.5°	7373.7	7339.0	7319.1	7319.1	7351.4	7430.9	7408.5	7430.9	7423.4	7438.3
15°	7093.2	7125.5	7314.2	7398.6	7463.1	7542.6	7532.6	7555.0	7560.0	7582.3
17.5°	5983.4	5951.1	5936.2	6370.7	7525.2	7771.0	7763.5	7761.1	7736.2	7718.8
20°	6129.9	6117.5	6100.1	6132.4	6261.5	7890.2	7939.8	7634.4	7545.1	7537.6
22.5°	6363.3	6343.4	6278.9	6281.3	6321.1	6859.8	7694.0	7416.0	7386.2	7368.8
25°	6477.5	6437.8	6385.6	6370.7	6383.1	6283.8	6872.2	7202.4	7056.0	6988.9
27.5°	6276.4	6278.9	6236.7	6276.4	6229.2	5782.3	5531.6	6785.3	6780.4	6750.6
30°	6124.9	6117.5	6067.8	6117.5	5792.2	5293.2	5186.5	6328.5	6276.4	6236.7
32.5°	5660.7	5665.6	5809.6	6003.3	5469.5	5074.7	4752.0	5653.2	6147.3	6124.9
35°	4049.4	4059.3	4570.7	5526.6	4980.4	4640.2	4615.4	4886.0	5943.7	5953.6
37.5°	3897.9	3897.9	3885.5	4041.9	4595.6	4464.0	4513.6	4486.3	5444.7	5469.5
40°	3788.7	3766.3	3748.9	3503.2	3195.3	4339.8	4374.6	4250.5	5146.7	5151.7
42.5°	3657.1	3632.3	3637.2	3182.9	2860.1	4032.0	3935.1	3768.8	4650.2	4655.1
45°	3416.3	3458.5	3488.3	2785.6	2760.8	2880.0	3629.8	3525.5	4315.0	4406.9
47.5°	1737.9	1775.2	2723.6	2562.2	2619.3	2559.7	3066.2	3068.7	3590.0	3895.4
50°	1576.5	1566.6	1569.1	1494.6	2418.2	2070.6	2217.1	2812.9	2875.0	3312.0
52.5°	1469.8	1467.3	1315.9	1169.4	1519.4	1822.3	1608.8	2035.8	2137.6	2805.5
55°	1087.4	1166.9	1037.8	1099.9	950.9	1459.9	1452.4	1837.2	1872.0	2249.4
57.5°	9.9	12.4	29.8	836.7	657.9	729.9	1003.0	1253.8	1315.9	1752.8
60°	2.5	5.0	12.4	24.8	427.0	449.4	670.3	725.0	816.8	1045.2
62.5°	0.0	0.0	5.0	12.4	22.3	183.7	213.5	233.4	360.0	533.8
65°	0.0	0.0	2.5	7.4	12.4	29.8	52.1	109.2	156.4	193.7
67.5°	0.0	0.0	2.5	5.0	9.9	14.9	29.8	42.2	67.0	114.2
70°	0.0	0.0	2.5	5.0	7.4	12.4	19.9	29.8	39.7	57.1
72.5°	0.0	0.0	2.5	5.0	5.0	14.9	14.9	22.3	29.8	37.2
75°	0.0	0.0	2.5	2.5	5.0	9.9	14.9	17.4	19.9	29.8
77.5°	0.0	0.0	2.5	5.0	7.4	9.9	12.4	19.9	17.4	17.4
80°	0.0	0.0	2.5	7.4	7.4	12.4	14.9	19.9	12.4	12.4
82.5°	0.0	0.0	2.5	9.9	7.4	24.8	24.8	27.3	9.9	9.9
85°	0.0	0.0	7.4	5.0	14.9	24.8	22.3	14.9	12.4	7.4
87.5°	0.0	0.0	2.5	2.5	5.0	7.4	17.4	14.9	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°
7289.3	0°	7289.3	7289.3	7289.3	7289.3	7289.3	7289.3	7289.3	7289.3	7289.3
7244.6	2.5°	7344.0	7311.7	7378.7	7371.3	7339.0	7324.1	7306.7	7291.8	7182.6
7249.6	5°	7346.4	7296.8	7378.7	7363.8	7358.9	7334.0	7319.1	7341.5	7242.2
7269.5	7.5°	7346.4	7296.8	7386.2	7391.1	7383.7	7363.8	7361.3	7376.2	7294.3
7304.2	10°	7396.1	7376.2	7450.7	7458.2	7448.2	7443.3	7430.9	7420.9	7334.0
7423.4	12.5°	7500.4	7460.6	7545.1	7567.4	7560.0	7572.4	7542.6	7557.5	7468.1
7545.1	15°	7627.0	7629.5	7694.0	7743.7	7738.7	7778.4	7733.7	7773.5	7708.9
7684.1	17.5°	7820.6	7848.0	7939.8	8014.3	8041.6	8071.4	8041.6	8054.0	7962.2
7530.2	20°	7617.1	7718.8	8160.8	8297.3	8354.4	8381.7	8332.1	8347.0	8255.1
7341.5	22.5°	7433.3	7564.9	7957.2	8384.2	8560.5	8615.1	8597.7	8595.3	8560.5
6969.1	25°	7162.7	7428.4	7604.6	8056.5	8610.2	8709.5	8719.4	8716.9	8664.8
6740.6	27.5°	6830.0	6889.6	7346.4	7622.0	8262.6	8639.9	8625.1	8553.1	8483.5
6266.4	30°	6405.5	6676.1	6882.2	7321.6	7813.2	8426.4	8426.4	8371.8	8299.8
6097.6	32.5°	6189.5	6539.5	6730.7	6889.6	7309.2	8188.1	8287.4	8230.3	8173.2
5966.0	35°	6075.3	6127.4	6574.3	6718.3	7073.3	7728.8	8131.0	8073.9	8031.7
5616.0	37.5°	5824.5	5946.2	6154.7	6539.5	6648.8	7353.9	7922.4	7892.6	7843.0
5161.6	40°	5265.9	5591.1	5911.4	6276.4	6390.6	6872.2	7669.2	7681.6	7614.6
4677.5	42.5°	4935.7	5156.7	5658.2	5904.0	6211.8	6561.9	7423.4	7443.3	7396.1
4431.7	45°	4548.4	4794.2	5146.7	5593.6	6013.2	6134.9	6988.9	7197.5	7157.7
3942.6	47.5°	4193.4	4392.0	4824.0	5275.8	5740.1	5722.7	6489.9	6882.2	6827.5
3567.7	50°	3689.4	4036.9	4240.5	4655.1	5347.8	5395.0	5958.6	6512.2	6467.5
3031.4	52.5°	3110.9	3547.8	3937.6	4317.5	4950.6	5062.3	5464.5	6134.9	6105.1
2316.4	55°	2718.6	3036.4	3475.8	3781.2	4468.9	4766.9	5094.6	5774.9	5760.0
1904.3	57.5°	1934.1	2547.3	2909.8	3336.8	3699.3	4238.0	4481.4	5042.5	4903.4
1055.2	60°	1310.9	1598.9	2040.8	2500.1	2743.4	3282.2	3508.1	3957.5	3920.3
630.6	62.5°	692.7	958.3	1273.6	1504.5	1680.8	2204.7	2299.0	2783.2	2770.7
253.2	65°	305.4	404.7	690.2	809.4	990.6	1233.9	1315.9	1489.6	1447.4
124.1	67.5°	158.9	240.8	389.8	479.2	603.3	695.2	762.2	816.8	851.6
81.9	70°	96.8	176.3	240.8	332.7	414.6	489.1	541.2	615.7	660.4
42.2	72.5°	72.0	111.7	166.3	255.7	300.4	387.3	439.4	494.1	533.8
34.8	75°	39.7	74.5	134.1	201.1	240.8	315.3	362.5	399.7	412.1
19.9	77.5°	24.8	57.1	111.7	156.4	188.7	255.7	243.3	278.1	307.9
14.9	80°	17.4	42.2	86.9	129.1	131.6	163.9	193.7	223.4	243.3
9.9	82.5°	12.4	34.8	64.6	99.3	86.9	126.6	151.4	173.8	126.6
7.4	85°	9.9	24.8	32.3	59.6	49.7	89.4	77.0	74.5	49.7
5.0	87.5°	7.4	12.4	22.3	27.3	19.9	19.9	24.8	29.8	24.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7289.3
7108.1
7157.7
7200.0
7262.0
7388.6
7602.2
7882.7
8190.6
8448.8
8585.3
8428.9
8272.5
8126.0
7972.1
7793.3
7599.7
7391.1
7162.7
6867.3
6475.0
6124.9
5777.3
4888.5
3922.7
2773.2
1430.1
851.6
662.9
541.2
404.7
312.8
245.8
91.9
49.7
24.8
0.0

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