

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: P636938

Luminaire Tested: **IFLD-L-SA8C-935-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636938
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-935-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24794.5 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

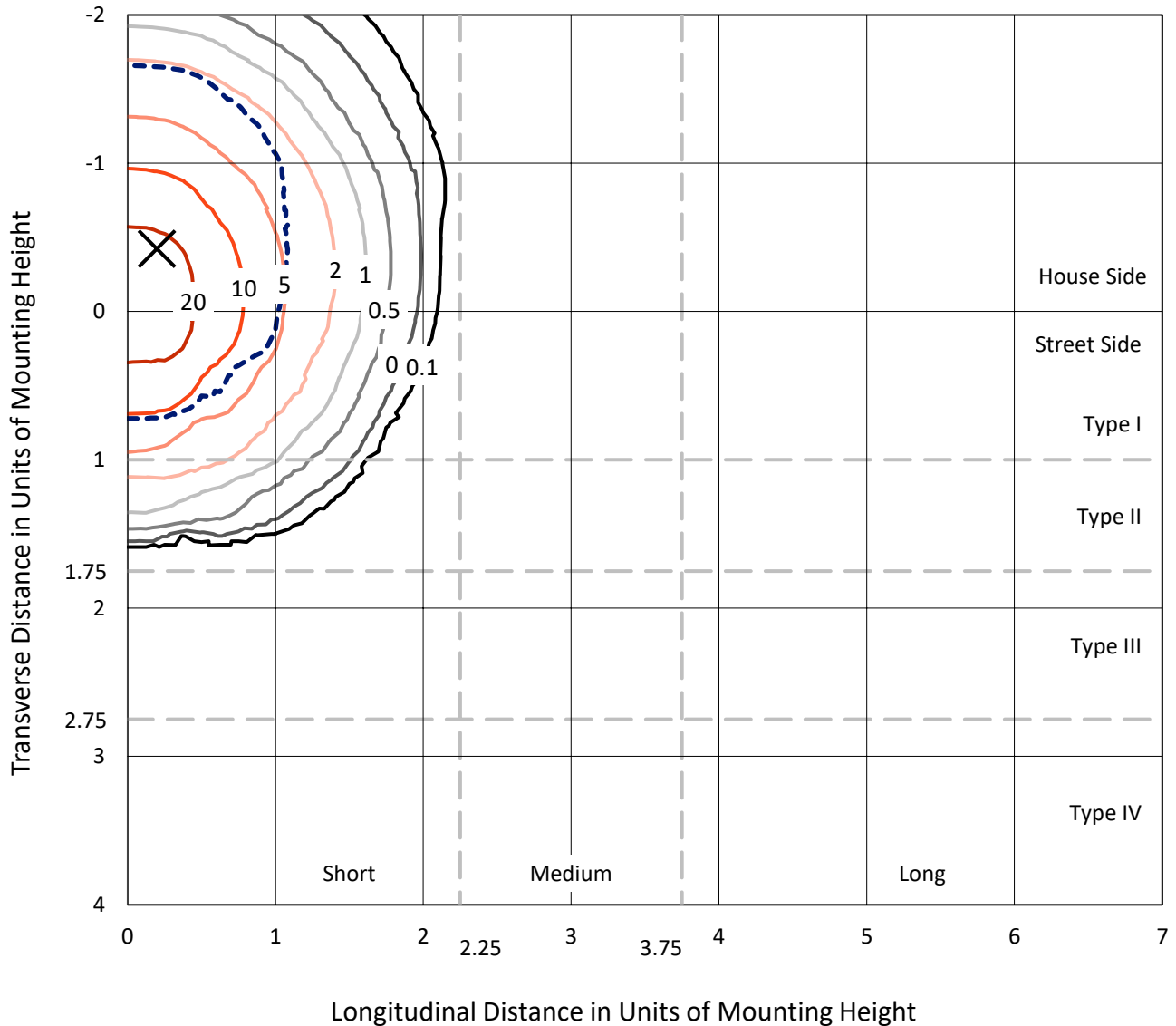
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P636938
 CATALOG NUMBER: IFLD-L-SA8C-935-U-LAM-VI

Iso-Footcandle Lines of Horizontal Illumination

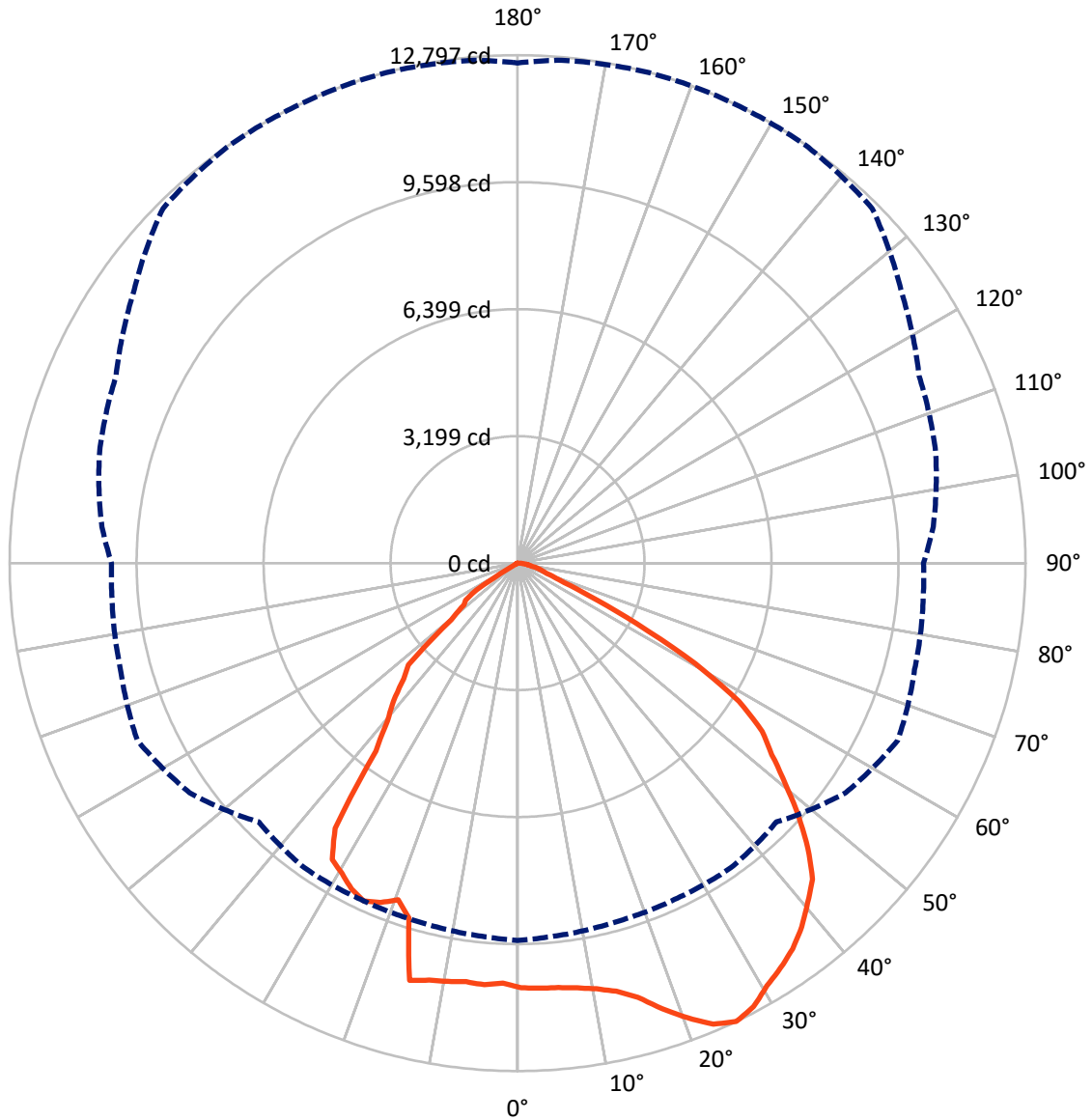
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 26.7 fc
 Type I - Short - N/A

REPORT NUMBER: P636938
CATALOG NUMBER: IFLD-L-SA8C-935-U-LAM-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

REPORT NUMBER: P636938

CATALOG NUMBER: IFLD-L-SA8C-935-U-LAM-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15350.4	0.0	15350.4
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	9444.2	0.0	9444.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	24794.5	0.0	24794.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1026.4	4.1
10°-20°	3134.0	12.6
20°-30°	4954.6	20.0
30°-40°	5596.7	22.6
40°-50°	5241.4	21.1
50°-60°	3613.6	14.6
60°-70°	970.8	3.9
70°-80°	202.3	0.8
80°-90°	54.7	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°	24794.5	100.0
0°-180°	24794.5	100.0



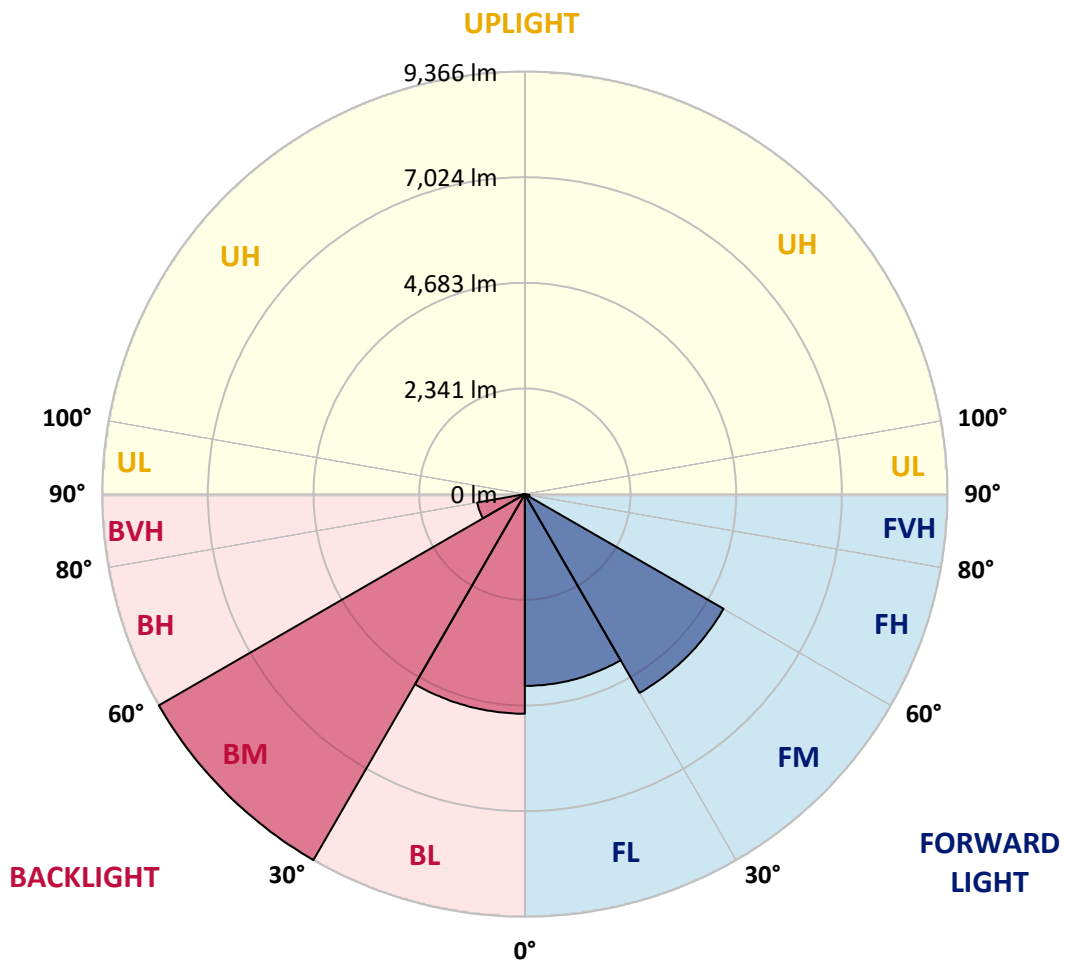
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4249.0	17.1			
FM (30°-60°)	5085.9	20.5			
FH (60°-80°)	101.9	0.4			G0/660
FVH (80°-90°)	7.3	0.0			G0/10
BL (0°-30°)	4866.0	19.6	B4/5000		
BM (30°-60°)	9365.8	37.8	B5		
BH (60°-80°)	1071.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	47.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





REPORT NUMBER: P636938
 CATALOG NUMBER: IFLD-L-SA8C-935-U-LAM-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10698.4	10698.4	10698.4	10698.4	10698.4	10698.4	10698.4	10698.4	10698.4	10698.4
2.5°	10745.8	10676.5	10611.0	10589.1	10680.2	10778.6	10716.6	10720.3	10698.4	10738.5
5°	10825.9	10731.2	10687.5	10654.7	10669.3	10771.3	10683.8	10716.6	10680.2	10727.6
7.5°	10796.8	10731.2	10687.5	10625.5	10672.9	10793.2	10709.3	10713.0	10694.8	10738.5
10°	10778.6	10731.2	10676.5	10683.8	10738.5	10840.5	10774.9	10811.4	10785.9	10811.4
12.5°	10822.3	10771.3	10742.1	10742.1	10789.5	10906.1	10873.3	10906.1	10895.2	10917.0
15°	10410.5	10457.9	10734.8	10858.7	10953.5	11070.1	11055.5	11088.3	11095.6	11128.4
17.5°	8781.7	8734.4	8712.5	9350.2	11044.6	11405.3	11394.4	11390.7	11354.3	11328.8
20°	8996.7	8978.5	8953.0	9000.4	9189.8	11580.2	11653.1	11204.9	11073.7	11062.8
22.5°	9339.2	9310.1	9215.4	9219.0	9277.3	10068.0	11292.4	10884.2	10840.5	10815.0
25°	9506.9	9448.6	9372.0	9350.2	9368.4	9222.6	10086.2	10570.9	10355.9	10257.5
27.5°	9211.7	9215.4	9153.4	9211.7	9142.5	8486.6	8118.5	9958.7	9951.4	9907.7
30°	8989.4	8978.5	8905.6	8978.5	8501.2	7768.7	7612.1	9288.2	9211.7	9153.4
32.5°	8308.0	8315.3	8526.7	8810.9	8027.5	7448.1	6974.4	8297.1	9022.2	8989.4
35°	5943.2	5957.7	6708.4	8111.3	7309.6	6810.4	6774.0	7171.1	8723.4	8738.0
37.5°	5720.9	5720.9	5702.7	5932.2	6744.8	6551.7	6624.6	6584.5	7991.0	8027.5
40°	5560.5	5527.8	5502.2	5141.5	4689.7	6369.5	6420.5	6238.3	7553.7	7561.0
42.5°	5367.4	5331.0	5338.3	4671.4	4197.7	5917.6	5775.5	5531.4	6825.0	6832.3
45°	5014.0	5075.9	5119.6	4088.4	4052.0	4226.9	5327.3	5174.3	6333.1	6467.9
47.5°	2550.7	2605.4	3997.3	3760.5	3844.3	3756.8	4500.2	4503.8	5269.0	5717.2
50°	2313.9	2299.3	2302.9	2193.6	3549.1	3039.0	3254.0	4128.5	4219.6	4860.9
52.5°	2157.2	2153.5	1931.3	1716.3	2230.1	2674.6	2361.2	2988.0	3137.4	4117.6
55°	1596.0	1712.6	1523.1	1614.2	1395.6	2142.6	2131.7	2696.5	2747.5	3301.3
57.5°	14.6	18.2	43.7	1228.0	965.6	1071.3	1472.1	1840.2	1931.3	2572.6
60°	3.6	7.3	18.2	36.4	626.7	659.5	983.8	1064.0	1198.8	1534.1
62.5°	0.0	0.0	7.3	18.2	32.8	269.6	313.4	342.5	528.4	783.4
65°	0.0	0.0	3.6	10.9	18.2	43.7	76.5	160.3	229.6	284.2
67.5°	0.0	0.0	3.6	7.3	14.6	21.9	43.7	61.9	98.4	167.6
70°	0.0	0.0	3.6	7.3	10.9	18.2	29.2	43.7	58.3	83.8
72.5°	0.0	0.0	3.6	7.3	7.3	21.9	21.9	32.8	43.7	54.7
75°	0.0	0.0	3.6	3.6	7.3	14.6	21.9	25.5	29.2	43.7
77.5°	0.0	0.0	3.6	7.3	10.9	14.6	18.2	29.2	25.5	25.5
80°	0.0	0.0	3.6	10.9	10.9	18.2	21.9	29.2	18.2	18.2
82.5°	0.0	0.0	3.6	14.6	10.9	36.4	36.4	40.1	14.6	14.6
85°	0.0	0.0	10.9	7.3	21.9	36.4	32.8	21.9	18.2	10.9
87.5°	0.0	0.0	3.6	3.6	7.3	10.9	25.5	21.9	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636938

CATALOG NUMBER: IFLD-L-SA8C-935-U-LAM-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
10698.4	0°	10698.4	10698.4	10698.4	10698.4	10698.4	10698.4	10698.4	10698.4	10698.4
10632.8	2.5°	10778.6	10731.2	10829.6	10818.7	10771.3	10749.4	10723.9	10702.1	10541.7
10640.1	5°	10782.2	10709.3	10829.6	10807.7	10800.4	10764.0	10742.1	10774.9	10629.2
10669.3	7.5°	10782.2	10709.3	10840.5	10847.8	10836.9	10807.7	10804.1	10825.9	10705.7
10720.3	10°	10855.1	10825.9	10935.3	10946.2	10931.6	10924.3	10906.1	10891.5	10764.0
10895.2	12.5°	11008.1	10949.8	11073.7	11106.5	11095.6	11113.8	11070.1	11091.9	10960.8
11073.7	15°	11194.0	11197.6	11292.4	11365.2	11358.0	11416.3	11350.7	11409.0	11314.2
11277.8	17.5°	11478.2	11518.3	11653.1	11762.4	11802.5	11846.2	11802.5	11820.7	11685.9
11051.9	20°	11179.4	11328.8	11977.4	12177.8	12261.6	12301.7	12228.8	12250.7	12115.9
10774.9	22.5°	10909.8	11102.9	11678.6	12305.4	12564.1	12644.2	12618.7	12615.1	12564.1
10228.4	25°	10512.6	10902.5	11161.2	11824.4	12637.0	12782.7	12797.3	12793.6	12717.1
9893.1	27.5°	10024.3	10111.7	10782.2	11186.7	12126.8	12680.7	12658.8	12553.1	12451.1
9197.1	30°	9401.2	9798.4	10100.8	10745.8	11467.3	12367.3	12367.3	12287.1	12181.5
8949.4	32.5°	9084.2	9598.0	9878.5	10111.7	10727.6	12017.5	12163.2	12079.4	11995.6
8756.2	35°	8916.6	8993.1	9649.0	9860.3	10381.4	11343.4	11933.7	11849.9	11787.9
8242.4	37.5°	8548.5	8727.1	9033.2	9598.0	9758.3	10793.2	11627.6	11583.9	11511.0
7575.6	40°	7728.7	8206.0	8676.1	9211.7	9379.3	10086.2	11255.9	11274.1	11175.8
6865.1	42.5°	7244.0	7568.3	8304.4	8665.1	9117.0	9630.8	10895.2	10924.3	10855.1
6504.3	45°	6675.6	7036.3	7553.7	8209.6	8825.5	9004.0	10257.5	10563.6	10505.3
5786.5	47.5°	6154.5	6446.0	7080.0	7743.2	8424.6	8399.1	9525.1	10100.8	10020.7
5236.2	50°	5414.8	5924.9	6223.7	6832.3	7848.9	7918.1	8745.3	9557.9	9492.3
4449.2	52.5°	4565.8	5207.1	5779.2	6336.7	7265.9	7429.9	8020.2	9004.0	8960.3
3399.7	55°	3990.0	4456.5	5101.4	5549.6	6559.0	6996.2	7477.2	8475.6	8453.8
2794.9	57.5°	2838.6	3738.6	4270.6	4897.4	5429.4	6220.1	6577.2	7400.7	7196.6
1548.6	60°	1924.0	2346.7	2995.3	3669.4	4026.5	4817.2	5148.8	5808.3	5753.7
925.5	62.5°	1016.6	1406.5	1869.3	2208.2	2466.9	3235.8	3374.2	4084.8	4066.6
371.7	65°	448.2	594.0	1013.0	1187.9	1453.9	1811.0	1931.3	2186.3	2124.4
182.2	67.5°	233.2	353.5	572.1	703.3	885.5	1020.3	1118.7	1198.8	1249.8
120.2	70°	142.1	258.7	353.5	488.3	608.5	717.8	794.4	903.7	969.3
61.9	72.5°	105.7	164.0	244.1	375.3	440.9	568.4	645.0	725.1	783.4
51.0	75°	58.3	109.3	196.8	295.2	353.5	462.8	532.0	586.7	604.9
29.2	77.5°	36.4	83.8	164.0	229.6	276.9	375.3	357.1	408.1	451.8
21.9	80°	25.5	61.9	127.5	189.5	193.1	240.5	284.2	327.9	357.1
14.6	82.5°	18.2	51.0	94.7	145.8	127.5	185.8	222.3	255.1	185.8
10.9	85°	14.6	36.4	47.4	87.5	72.9	131.2	113.0	109.3	72.9
7.3	87.5°	10.9	18.2	32.8	40.1	29.2	29.2	36.4	43.7	36.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10698.4
10432.4
10505.3
10567.2
10658.3
10844.2
11157.5
11569.3
12021.1
12400.1
12600.5
12370.9
12141.4
11926.4
11700.5
11438.1
11153.9
10847.8
10512.6
10079.0
9503.2
8989.4
8479.3
7174.8
5757.3
4070.2
2098.9
1249.8
972.9
794.4
594.0
459.1
360.7
134.8
72.9
36.4
0.0

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