

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: P638400

Luminaire Tested: **IFLD-S-SA6A-735-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638400
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-735-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (96) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19620.1 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

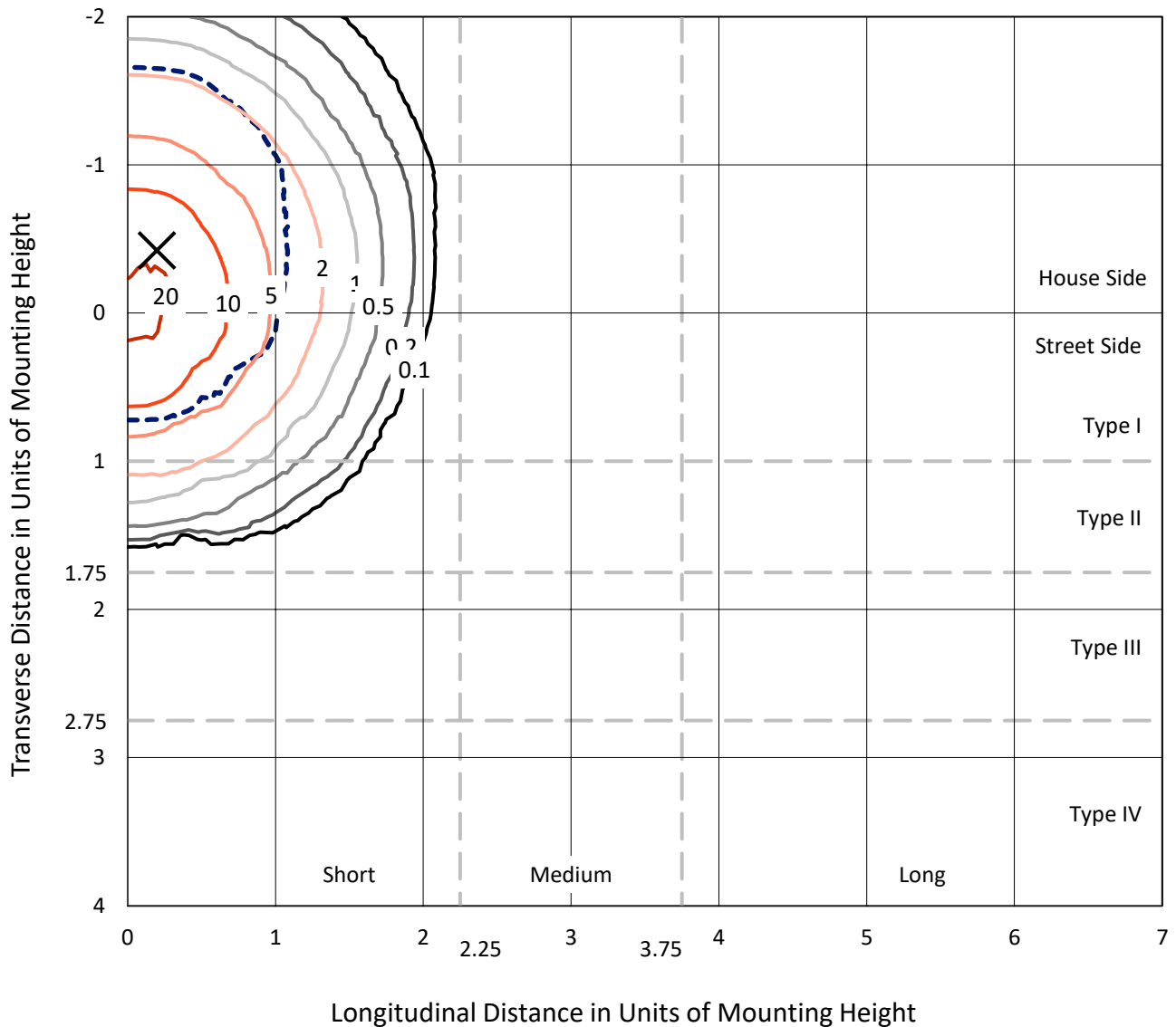
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

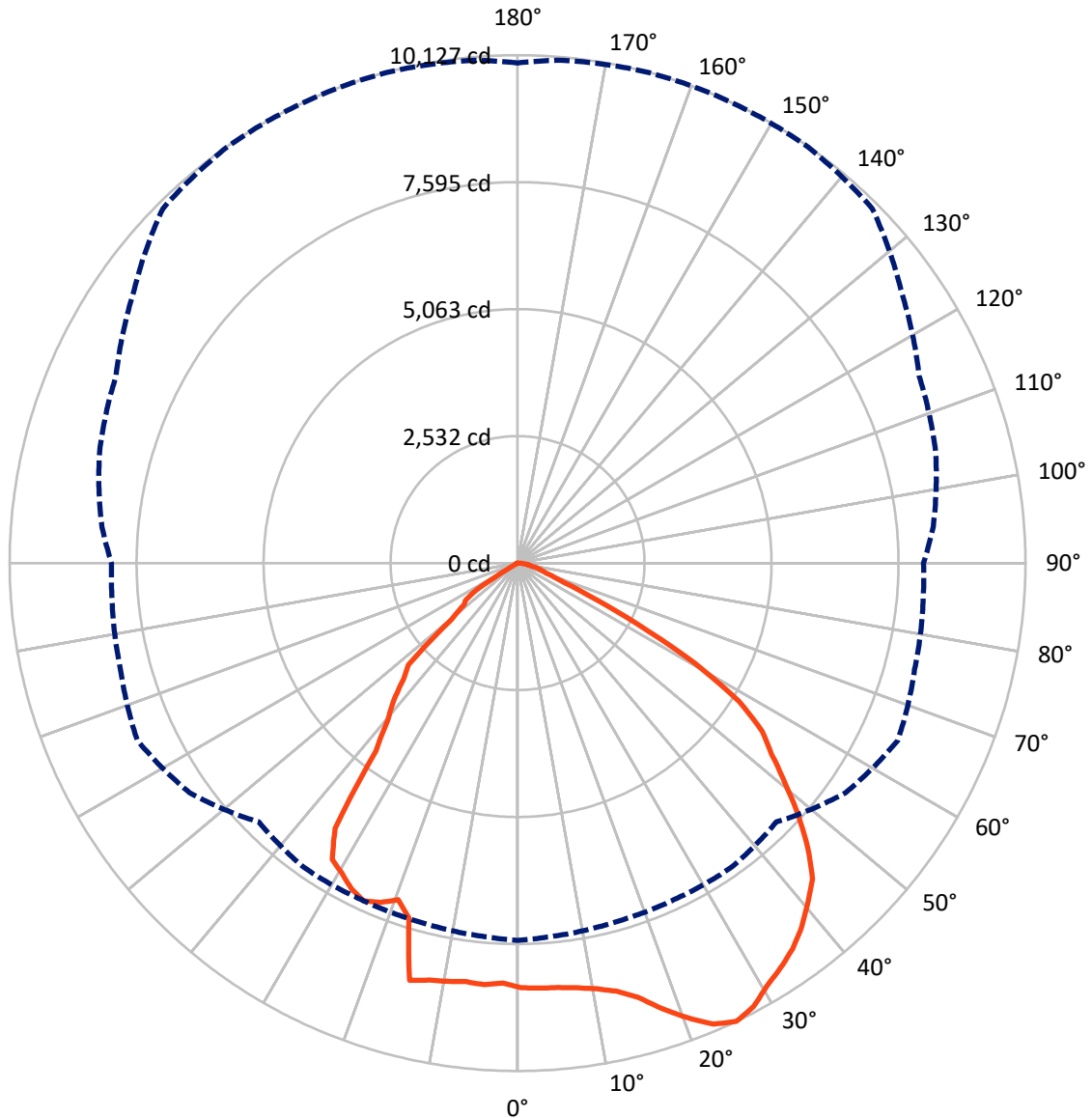
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 21.2 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	12146.8	0.0	12146.8
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	7473.2	0.0	7473.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	19620.1	0.0	19620.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	812.2	4.1
10°-20°	2479.9	12.6
20°-30°	3920.6	20.0
30°-40°	4428.7	22.6
40°-50°	4147.6	21.1
50°-60°	2859.4	14.6
60°-70°	768.2	3.9
70°-80°	160.1	0.8
80°-90°	43.3	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°	19620.1	100.0
0°-180°	19620.1	100.0



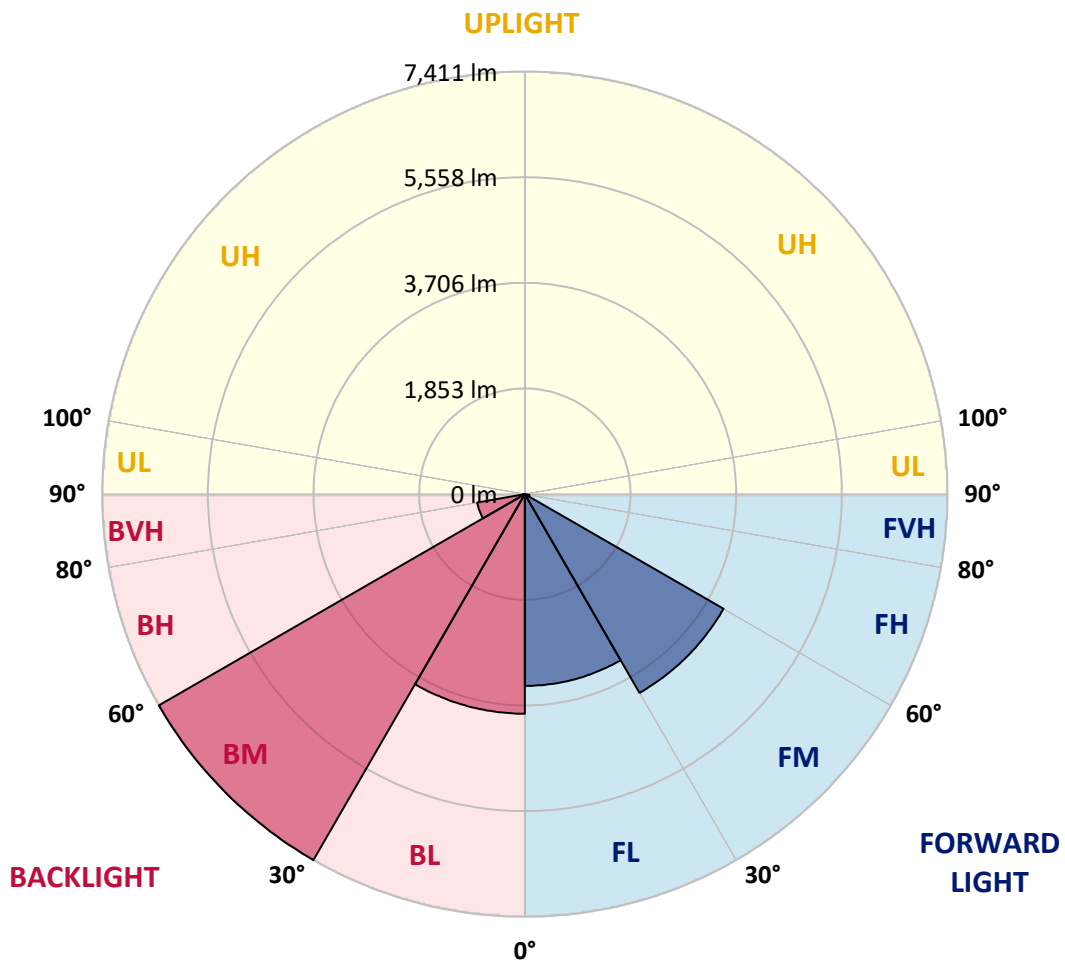
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3362.3	17.1			
FM (30°-60°)	4024.5	20.5			
FH (60°-80°)	80.7	0.4			G0/660
FVH (80°-90°)	5.8	0.0			G0/10
BL (0°-30°)	3850.5	19.6	B4/5000		
BM (30°-60°)	7411.2	37.8	B4/8500		
BH (60°-80°)	847.7	4.3	B2/1000		G2/1000
BVH (80°-90°)	37.5	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°	8465.7	8465.7	8465.7	8465.7	8465.7	8465.7	8465.7	8465.7	8465.7	8465.7
2.5°	8503.2	8448.4	8396.5	8379.2	8451.3	8529.1	8480.1	8483.0	8465.7	8497.4
5°	8566.6	8491.7	8457.1	8431.1	8442.6	8523.4	8454.2	8480.1	8451.3	8488.8
7.5°	8543.6	8491.7	8457.1	8408.0	8445.5	8540.7	8474.4	8477.2	8462.8	8497.4
10°	8529.1	8491.7	8448.4	8454.2	8497.4	8578.2	8526.3	8555.1	8534.9	8555.1
12.5°	8563.7	8523.4	8500.3	8500.3	8537.8	8630.1	8604.1	8630.1	8621.4	8638.7
15°	8237.9	8275.4	8494.5	8592.6	8667.5	8759.8	8748.3	8774.2	8780.0	8805.9
17.5°	6949.0	6911.5	6894.2	7398.8	8739.6	9025.1	9016.4	9013.5	8984.7	8964.5
20°	7119.1	7104.7	7084.5	7122.0	7272.0	9163.5	9221.2	8866.5	8762.7	8754.0
22.5°	7390.2	7367.1	7292.2	7295.0	7341.2	7966.9	8935.7	8612.8	8578.2	8558.0
25°	7522.8	7476.7	7416.1	7398.8	7413.3	7297.9	7981.3	8364.8	8194.7	8116.8
27.5°	7289.3	7292.2	7243.1	7289.3	7234.5	6715.5	6424.2	7880.4	7874.6	7840.0
30°	7113.4	7104.7	7047.1	7104.7	6727.0	6147.4	6023.4	7349.8	7289.3	7243.1
32.5°	6574.2	6579.9	6747.2	6972.1	6352.2	5893.7	5518.9	6565.5	7139.3	7113.4
35°	4702.8	4714.4	5308.4	6418.5	5784.1	5389.1	5360.3	5674.6	6902.9	6914.4
37.5°	4527.0	4527.0	4512.5	4694.2	5337.2	5184.4	5242.0	5210.3	6323.3	6352.2
40°	4400.1	4374.1	4354.0	4068.5	3711.0	5040.2	5080.6	4936.4	5977.3	5983.1
42.5°	4247.3	4218.4	4224.2	3696.5	3321.7	4682.7	4570.2	4377.0	5400.6	5406.4
45°	3967.6	4016.6	4051.2	3235.2	3206.4	3344.8	4215.5	4094.4	5011.4	5118.1
47.5°	2018.4	2061.6	3163.1	2975.7	3042.0	2972.8	3561.0	3563.9	4169.4	4524.1
50°	1831.0	1819.4	1822.3	1735.8	2808.4	2404.8	2574.9	3266.9	3339.0	3846.5
52.5°	1707.0	1704.1	1528.2	1358.1	1764.6	2116.4	1868.5	2364.4	2482.6	3258.3
55°	1262.9	1355.2	1205.3	1277.4	1104.3	1695.4	1686.8	2133.7	2174.1	2612.4
57.5°	11.5	14.4	34.6	971.7	764.1	847.7	1164.9	1456.1	1528.2	2035.7
60°	2.9	5.8	14.4	28.8	495.9	521.9	778.5	842.0	948.6	1213.9
62.5°	0.0	0.0	5.8	14.4	26.0	213.4	248.0	271.0	418.1	619.9
65°	0.0	0.0	2.9	8.7	14.4	34.6	60.6	126.9	181.7	224.9
67.5°	0.0	0.0	2.9	5.8	11.5	17.3	34.6	49.0	77.9	132.6
70°	0.0	0.0	2.9	5.8	8.7	14.4	23.1	34.6	46.1	66.3
72.5°	0.0	0.0	2.9	5.8	5.8	17.3	17.3	26.0	34.6	43.3
75°	0.0	0.0	2.9	2.9	5.8	11.5	17.3	20.2	23.1	34.6
77.5°	0.0	0.0	2.9	5.8	8.7	11.5	14.4	23.1	20.2	20.2
80°	0.0	0.0	2.9	8.7	8.7	14.4	17.3	23.1	14.4	14.4
82.5°	0.0	0.0	2.9	11.5	8.7	28.8	28.8	31.7	11.5	11.5
85°	0.0	0.0	8.7	5.8	17.3	28.8	26.0	17.3	14.4	8.7
87.5°	0.0	0.0	2.9	2.9	5.8	8.7	20.2	17.3	5.8	5.8
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°
8465.7	0°	8465.7	8465.7	8465.7	8465.7	8465.7	8465.7	8465.7	8465.7	8465.7
8413.8	2.5°	8529.1	8491.7	8569.5	8560.9	8523.4	8506.1	8485.9	8468.6	8341.7
8419.6	5°	8532.0	8474.4	8569.5	8552.2	8546.4	8517.6	8500.3	8526.3	8410.9
8442.6	7.5°	8532.0	8474.4	8578.2	8583.9	8575.3	8552.2	8549.3	8566.6	8471.5
8483.0	10°	8589.7	8566.6	8653.1	8661.8	8650.2	8644.5	8630.1	8618.5	8517.6
8621.4	12.5°	8710.8	8664.7	8762.7	8788.6	8780.0	8794.4	8759.8	8777.1	8673.3
8762.7	15°	8857.8	8860.7	8935.7	8993.4	8987.6	9033.7	8981.8	9028.0	8953.0
8924.2	17.5°	9082.8	9114.5	9221.2	9307.7	9339.4	9374.0	9339.4	9353.8	9247.1
8745.4	20°	8846.3	8964.5	9477.8	9636.4	9702.7	9734.4	9676.7	9694.0	9587.3
8526.3	22.5°	8632.9	8785.8	9241.3	9737.3	9942.0	10005.4	9985.3	9982.4	9942.0
8093.7	25°	8318.6	8627.2	8831.9	9356.7	9999.7	10115.0	10126.5	10123.7	10063.1
7828.5	27.5°	7932.3	8001.5	8532.0	8852.1	9596.0	10034.3	10017.0	9933.4	9852.6
7277.7	30°	7439.2	7753.5	7992.8	8503.2	9074.1	9786.3	9786.3	9722.9	9639.2
7081.7	32.5°	7188.3	7594.9	7816.9	8001.5	8488.8	9509.5	9624.8	9558.5	9492.2
6928.8	35°	7055.7	7116.3	7635.3	7802.5	8214.8	8976.1	9443.2	9376.9	9327.8
6522.3	37.5°	6764.5	6905.8	7148.0	7594.9	7721.8	8540.7	9201.0	9166.4	9108.7
5994.6	40°	6115.7	6493.4	6865.4	7289.3	7421.9	7981.3	8906.9	8921.3	8843.4
5432.3	42.5°	5732.2	5988.8	6571.3	6856.8	7214.3	7620.9	8621.4	8644.5	8589.7
5146.9	45°	5282.4	5567.9	5977.3	6496.3	6983.6	7124.9	8116.8	8359.0	8312.9
4578.9	47.5°	4870.1	5100.8	5602.5	6127.3	6666.5	6646.3	7537.2	7992.8	7929.4
4143.5	50°	4284.8	4688.4	4924.9	5406.4	6210.9	6265.7	6920.2	7563.2	7511.3
3520.6	52.5°	3612.9	4120.4	4573.1	5014.3	5749.5	5879.3	6346.4	7124.9	7090.3
2690.2	55°	3157.3	3526.4	4036.8	4391.4	5190.1	5536.2	5916.8	6706.8	6689.5
2211.6	57.5°	2246.2	2958.4	3379.4	3875.3	4296.3	4922.0	5204.6	5856.2	5694.7
1225.5	60°	1522.4	1856.9	2370.2	2903.6	3186.2	3811.9	4074.3	4596.2	4552.9
732.4	62.5°	804.5	1113.0	1479.2	1747.3	1952.1	2560.5	2670.0	3232.3	3217.9
294.1	65°	354.7	470.0	801.6	940.0	1150.5	1433.1	1528.2	1730.0	1681.0
144.2	67.5°	184.5	279.7	452.7	556.5	700.7	807.4	885.2	948.6	989.0
95.2	70°	112.5	204.7	279.7	386.4	481.5	568.0	628.6	715.1	767.0
49.0	72.5°	83.6	129.8	193.2	297.0	348.9	449.8	510.4	573.8	619.9
40.4	75°	46.1	86.5	155.7	233.6	279.7	366.2	421.0	464.2	478.6
23.1	77.5°	28.8	66.3	129.8	181.7	219.1	297.0	282.6	322.9	357.5
17.3	80°	20.2	49.0	100.9	149.9	152.8	190.3	224.9	259.5	282.6
11.5	82.5°	14.4	40.4	75.0	115.3	100.9	147.1	175.9	201.8	147.1
8.7	85°	11.5	28.8	37.5	69.2	57.7	103.8	89.4	86.5	57.7
5.8	87.5°	8.7	14.4	26.0	31.7	23.1	23.1	28.8	34.6	28.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8465.7
8255.2
8312.9
8361.9
8434.0
8581.0
8829.0
9154.8
9512.4
9812.3
9970.8
9789.2
9607.5
9437.4
9258.6
9051.0
8826.1
8583.9
8318.6
7975.5
7519.9
7113.4
6709.7
5677.4
4555.8
3220.8
1660.8
989.0
769.9
628.6
470.0
363.3
285.5
106.7
57.7
28.8
0.0

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