

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: P638422

Luminaire Tested: **IFLD-S-SA2D-740-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638422
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-740-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11526.9 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

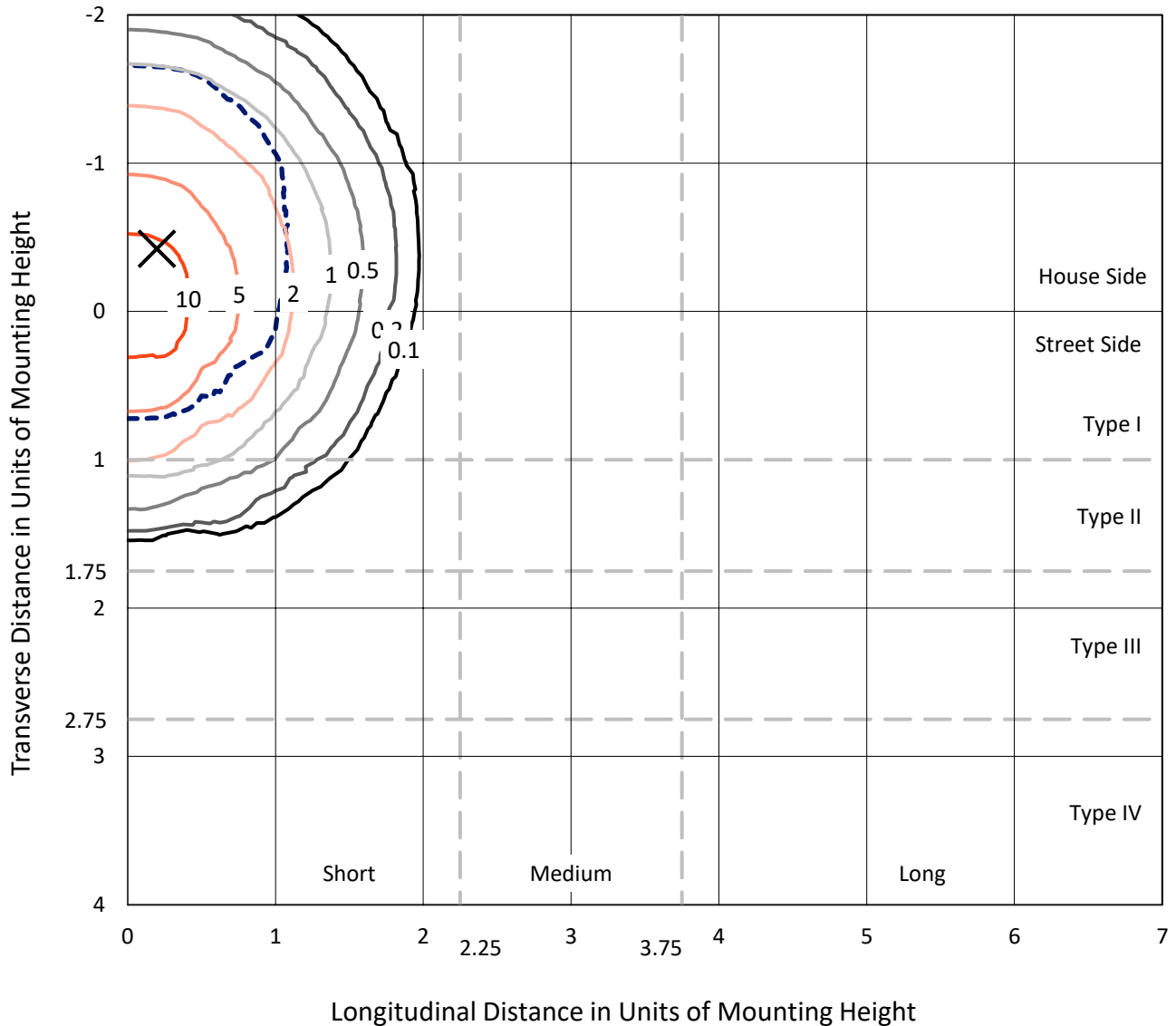
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

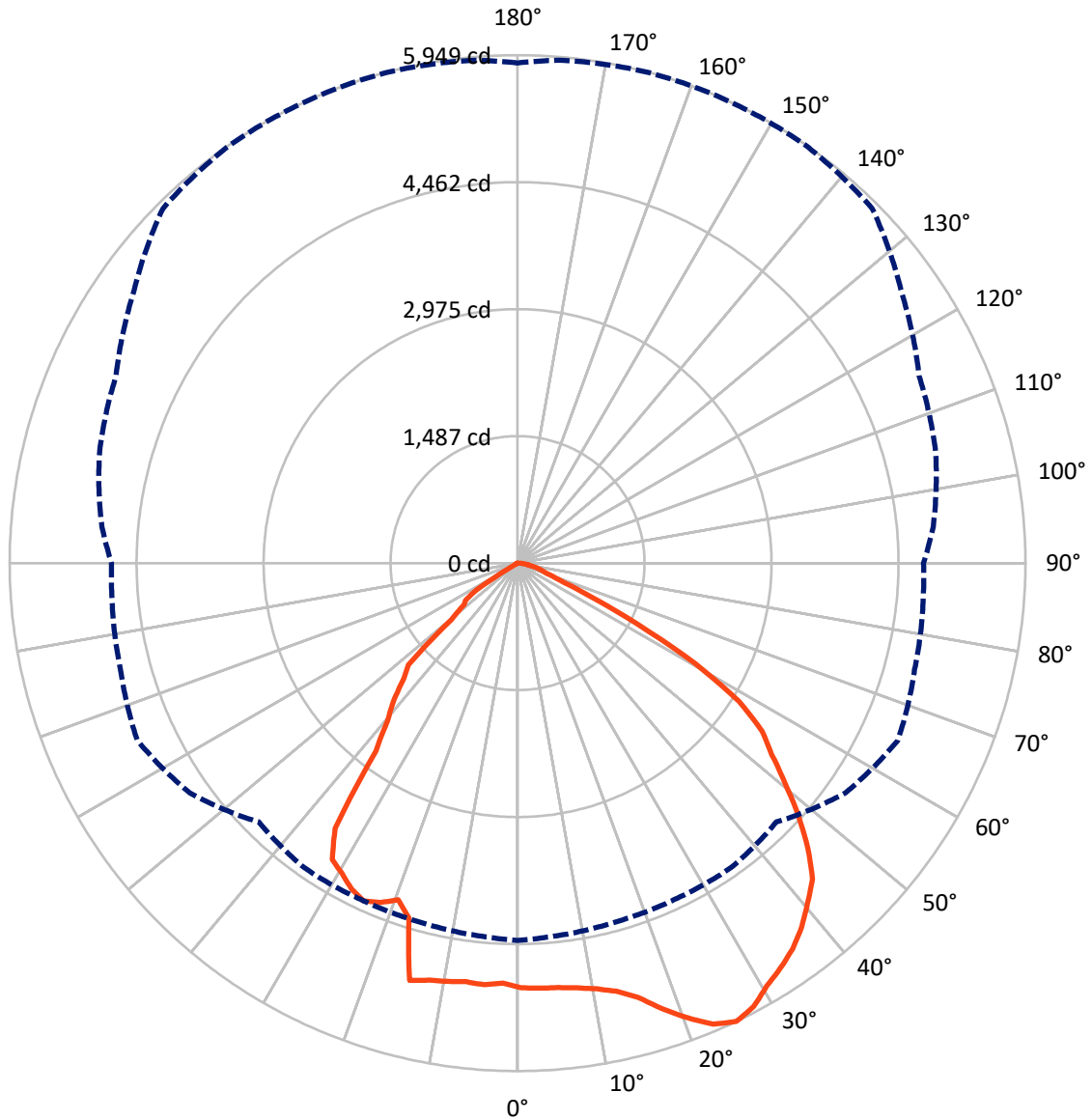
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.4 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	7136.3	0.0	7136.3
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	4390.6	0.0	4390.6
	% Fixture	38.1	0.0	38.1
Total	Lumens	11526.9	0.0	11526.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.2	4.1
10°-20°	1457.0	12.6
20°-30°	2303.4	20.0
30°-40°	2601.9	22.6
40°-50°	2436.7	21.1
50°-60°	1679.9	14.6
60°-70°	451.3	3.9
70°-80°	94.1	0.8
80°-90°	25.4	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°	11526.9	100.0
0°-180°	11526.9	100.0



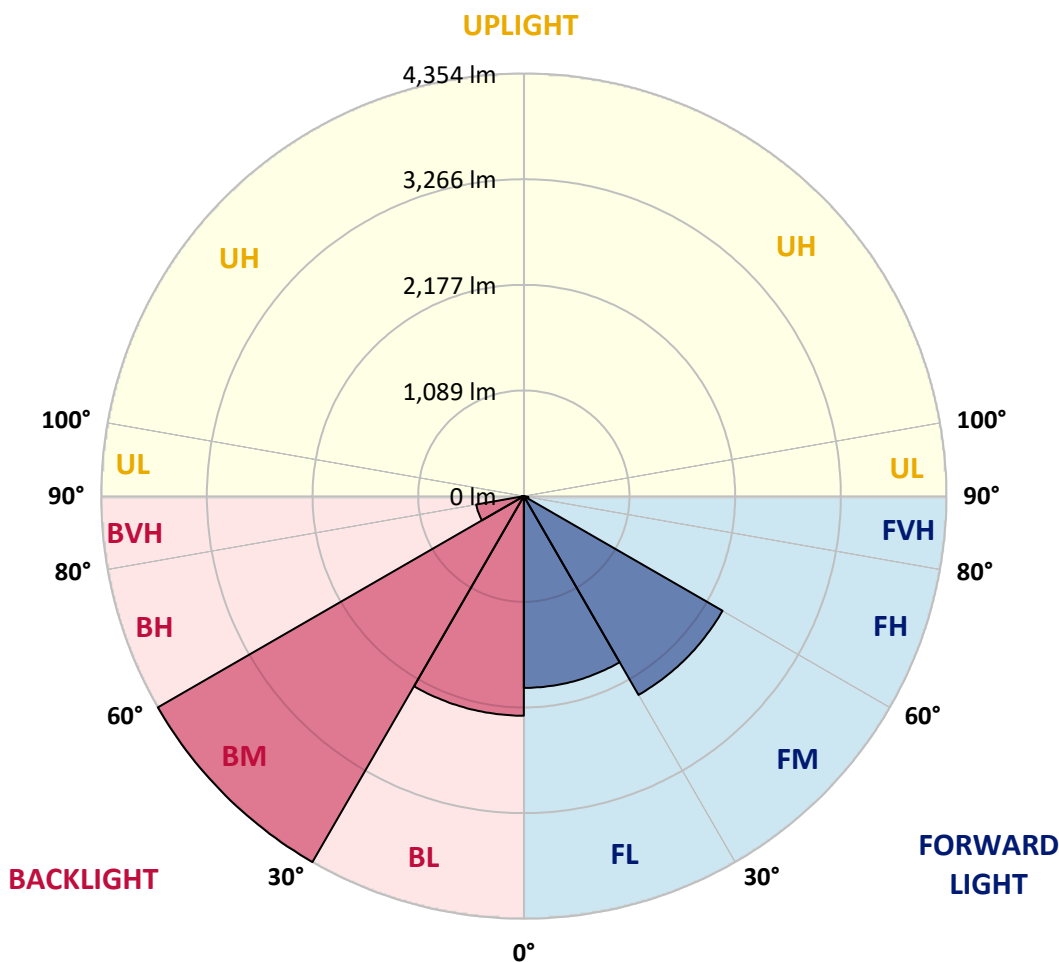
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1975.3	17.1			
FM (30°-60°)	2364.4	20.5			
FH (60°-80°)	47.4	0.4			G0/660
FVH (80°-90°)	3.4	0.0			G0/10
BL (0°-30°)	2262.2	19.6	B3/2500		
BM (30°-60°)	4354.1	37.8	B3/5000		
BH (60°-80°)	498.0	4.3	B1/500		G1/500
BVH (80°-90°)	22.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4973.7	4973.7	4973.7	4973.7	4973.7	4973.7	4973.7	4973.7	4973.7	4973.7
2.5°	4995.7	4963.5	4933.0	4922.8	4965.2	5010.9	4982.1	4983.8	4973.7	4992.3
5°	5032.9	4988.9	4968.6	4953.3	4960.1	5007.5	4966.9	4982.1	4965.2	4987.2
7.5°	5019.4	4988.9	4968.6	4939.8	4961.8	5017.7	4978.7	4980.4	4972.0	4992.3
10°	5010.9	4988.9	4963.5	4966.9	4992.3	5039.7	5009.2	5026.2	5014.3	5026.2
12.5°	5031.2	5007.5	4994.0	4994.0	5016.0	5070.2	5055.0	5070.2	5065.1	5075.3
15°	4839.8	4861.8	4990.6	5048.2	5092.2	5146.4	5139.7	5154.9	5158.3	5173.5
17.5°	4082.6	4060.6	4050.4	4346.9	5134.6	5302.3	5297.2	5295.5	5278.6	5266.7
20°	4182.5	4174.1	4162.2	4184.2	4272.3	5383.6	5417.5	5209.1	5148.1	5143.1
22.5°	4341.8	4328.2	4284.2	4285.9	4313.0	4680.6	5249.8	5060.0	5039.7	5027.9
25°	4419.7	4392.6	4357.0	4346.9	4355.3	4287.6	4689.1	4914.4	4814.4	4768.7
27.5°	4282.5	4284.2	4255.4	4282.5	4250.3	3945.4	3774.3	4629.8	4626.4	4606.0
30°	4179.2	4174.1	4140.2	4174.1	3952.2	3611.7	3538.8	4318.1	4282.5	4255.4
32.5°	3862.4	3865.8	3964.0	4096.1	3731.9	3462.6	3242.4	3857.3	4194.4	4179.2
35°	2763.0	2769.7	3118.7	3770.9	3398.2	3166.1	3149.2	3333.8	4055.5	4062.3
37.5°	2659.6	2659.6	2651.1	2757.9	3135.6	3045.9	3079.7	3061.1	3715.0	3731.9
40°	2585.1	2569.8	2558.0	2390.3	2180.2	2961.2	2984.9	2900.2	3511.7	3515.1
42.5°	2495.3	2478.4	2481.7	2171.7	1951.5	2751.1	2685.0	2571.5	3172.9	3176.3
45°	2331.0	2359.8	2380.1	1900.7	1883.8	1965.1	2476.7	2405.5	2944.2	3006.9
47.5°	1185.8	1211.2	1858.3	1748.2	1787.2	1746.5	2092.1	2093.8	2449.6	2657.9
50°	1075.7	1068.9	1070.6	1019.8	1650.0	1412.8	1512.8	1919.3	1961.7	2259.8
52.5°	1002.9	1001.2	897.8	797.9	1036.7	1243.4	1097.7	1389.1	1458.6	1914.2
55°	742.0	796.2	708.1	750.5	648.8	996.1	991.0	1253.6	1277.3	1534.8
57.5°	6.8	8.5	20.3	570.9	448.9	498.0	684.4	855.5	897.8	1196.0
60°	1.7	3.4	8.5	16.9	291.4	306.6	457.4	494.7	557.3	713.2
62.5°	0.0	0.0	3.4	8.5	15.2	125.4	145.7	159.2	245.6	364.2
65°	0.0	0.0	1.7	5.1	8.5	20.3	35.6	74.5	106.7	132.1
67.5°	0.0	0.0	1.7	3.4	6.8	10.2	20.3	28.8	45.7	77.9
70°	0.0	0.0	1.7	3.4	5.1	8.5	13.6	20.3	27.1	39.0
72.5°	0.0	0.0	1.7	3.4	3.4	10.2	10.2	15.2	20.3	25.4
75°	0.0	0.0	1.7	1.7	3.4	6.8	10.2	11.9	13.6	20.3
77.5°	0.0	0.0	1.7	3.4	5.1	6.8	8.5	13.6	11.9	11.9
80°	0.0	0.0	1.7	5.1	5.1	8.5	10.2	13.6	8.5	8.5
82.5°	0.0	0.0	1.7	6.8	5.1	16.9	16.9	18.6	6.8	6.8
85°	0.0	0.0	5.1	3.4	10.2	16.9	15.2	10.2	8.5	5.1
87.5°	0.0	0.0	1.7	1.7	3.4	5.1	11.9	10.2	3.4	3.4
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°
4973.7	0°	4973.7	4973.7	4973.7	4973.7	4973.7	4973.7	4973.7	4973.7	4973.7
4943.2	2.5°	5010.9	4988.9	5034.6	5029.6	5007.5	4997.4	4985.5	4975.3	4900.8
4946.5	5°	5012.6	4978.7	5034.6	5024.5	5021.1	5004.1	4994.0	5009.2	4941.5
4960.1	7.5°	5012.6	4978.7	5039.7	5043.1	5038.0	5024.5	5022.8	5032.9	4977.0
4983.8	10°	5046.5	5032.9	5083.8	5088.8	5082.1	5078.7	5070.2	5063.4	5004.1
5065.1	12.5°	5117.6	5090.5	5148.1	5163.4	5158.3	5166.8	5146.4	5156.6	5095.6
5148.1	15°	5204.0	5205.7	5249.8	5283.7	5280.3	5307.4	5276.9	5304.0	5259.9
5243.0	17.5°	5336.2	5354.8	5417.5	5468.3	5486.9	5507.3	5486.9	5495.4	5432.7
5138.0	20°	5197.3	5266.7	5568.3	5661.4	5700.4	5719.0	5685.1	5695.3	5632.6
5009.2	22.5°	5071.9	5161.7	5429.3	5720.7	5841.0	5878.3	5866.4	5864.7	5841.0
4755.1	25°	4887.3	5068.5	5188.8	5497.1	5874.9	5942.6	5949.4	5947.7	5912.1
4599.3	27.5°	4660.3	4700.9	5012.6	5200.7	5637.7	5895.2	5885.0	5835.9	5788.5
4275.7	30°	4370.6	4555.2	4695.8	4995.7	5331.1	5749.5	5749.5	5712.2	5663.1
4160.5	32.5°	4223.2	4462.1	4592.5	4700.9	4987.2	5586.9	5654.6	5615.7	5576.7
4070.7	35°	4145.3	4180.8	4485.8	4584.0	4826.3	5273.5	5547.9	5509.0	5480.2
3831.9	37.5°	3974.2	4057.2	4199.5	4462.1	4536.6	5017.7	5405.6	5385.3	5351.4
3521.9	40°	3593.0	3814.9	4033.5	4282.5	4360.4	4689.1	5232.8	5241.3	5195.6
3191.5	42.5°	3367.7	3518.5	3860.7	4028.4	4238.4	4477.3	5065.1	5078.7	5046.5
3023.8	45°	3103.5	3271.2	3511.7	3816.6	4102.9	4185.9	4768.7	4911.0	4883.9
2690.1	47.5°	2861.2	2996.7	3291.5	3599.8	3916.6	3904.7	4428.2	4695.8	4658.6
2434.3	50°	2517.3	2754.5	2893.4	3176.3	3648.9	3681.1	4065.7	4443.4	4412.9
2068.4	52.5°	2122.6	2420.8	2686.7	2945.9	3377.9	3454.1	3728.5	4185.9	4165.6
1580.5	55°	1855.0	2071.8	2371.6	2580.0	3049.2	3252.5	3476.1	3940.3	3930.1
1299.3	57.5°	1319.6	1738.1	1985.4	2276.8	2524.1	2891.7	3057.7	3440.6	3345.7
720.0	60°	894.4	1091.0	1392.5	1705.9	1871.9	2239.5	2393.7	2700.3	2674.9
430.3	62.5°	472.6	653.9	869.0	1026.6	1146.9	1504.3	1568.7	1899.0	1890.5
172.8	65°	208.4	276.1	470.9	552.3	675.9	841.9	897.8	1016.4	987.6
84.7	67.5°	108.4	164.3	266.0	326.9	411.6	474.3	520.1	557.3	581.1
55.9	70°	66.1	120.3	164.3	227.0	282.9	333.7	369.3	420.1	450.6
28.8	72.5°	49.1	76.2	113.5	174.5	205.0	264.3	299.8	337.1	364.2
23.7	75°	27.1	50.8	91.5	137.2	164.3	215.1	247.3	272.7	281.2
13.6	77.5°	16.9	39.0	76.2	106.7	128.7	174.5	166.0	189.7	210.1
10.2	80°	11.9	28.8	59.3	88.1	89.8	111.8	132.1	152.5	166.0
6.8	82.5°	8.5	23.7	44.0	67.8	59.3	86.4	103.3	118.6	86.4
5.1	85°	6.8	16.9	22.0	40.7	33.9	61.0	52.5	50.8	33.9
3.4	87.5°	5.1	8.5	15.2	18.6	13.6	13.6	16.9	20.3	16.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
4973.7
4850.0
4883.9
4912.7
4955.0
5041.4
5187.1
5378.5
5588.6
5764.8
5857.9
5751.2
5644.5
5544.5
5439.5
5317.5
5185.4
5043.1
4887.3
4685.7
4418.0
4179.2
3942.0
3335.5
2676.6
1892.2
975.8
581.1
452.3
369.3
276.1
213.4
167.7
62.7
33.9
16.9
0.0

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