

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: P638451

Luminaire Tested: **IFLD-S-SA2D-750-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638451
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-750-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11790.9 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G2

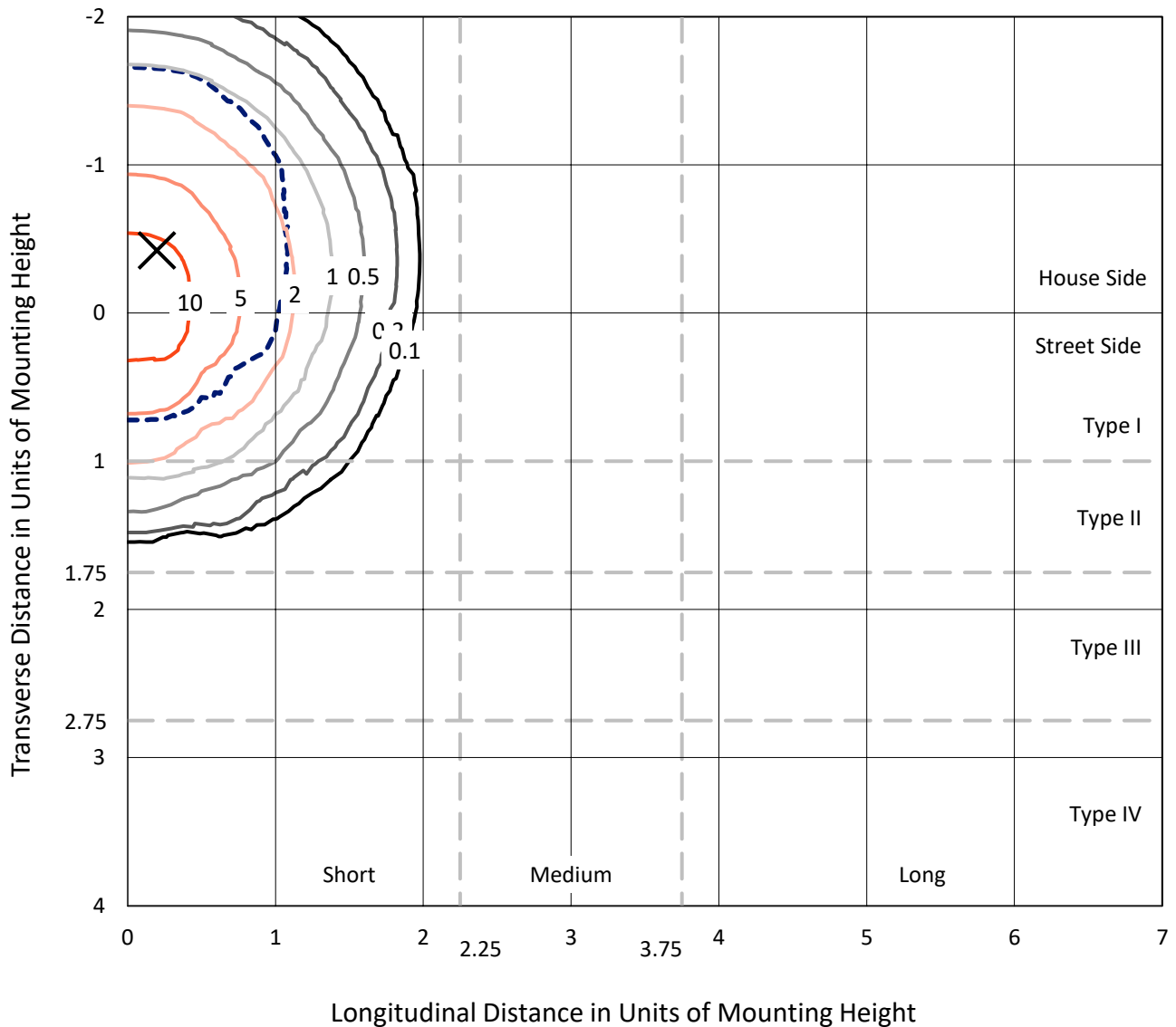
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

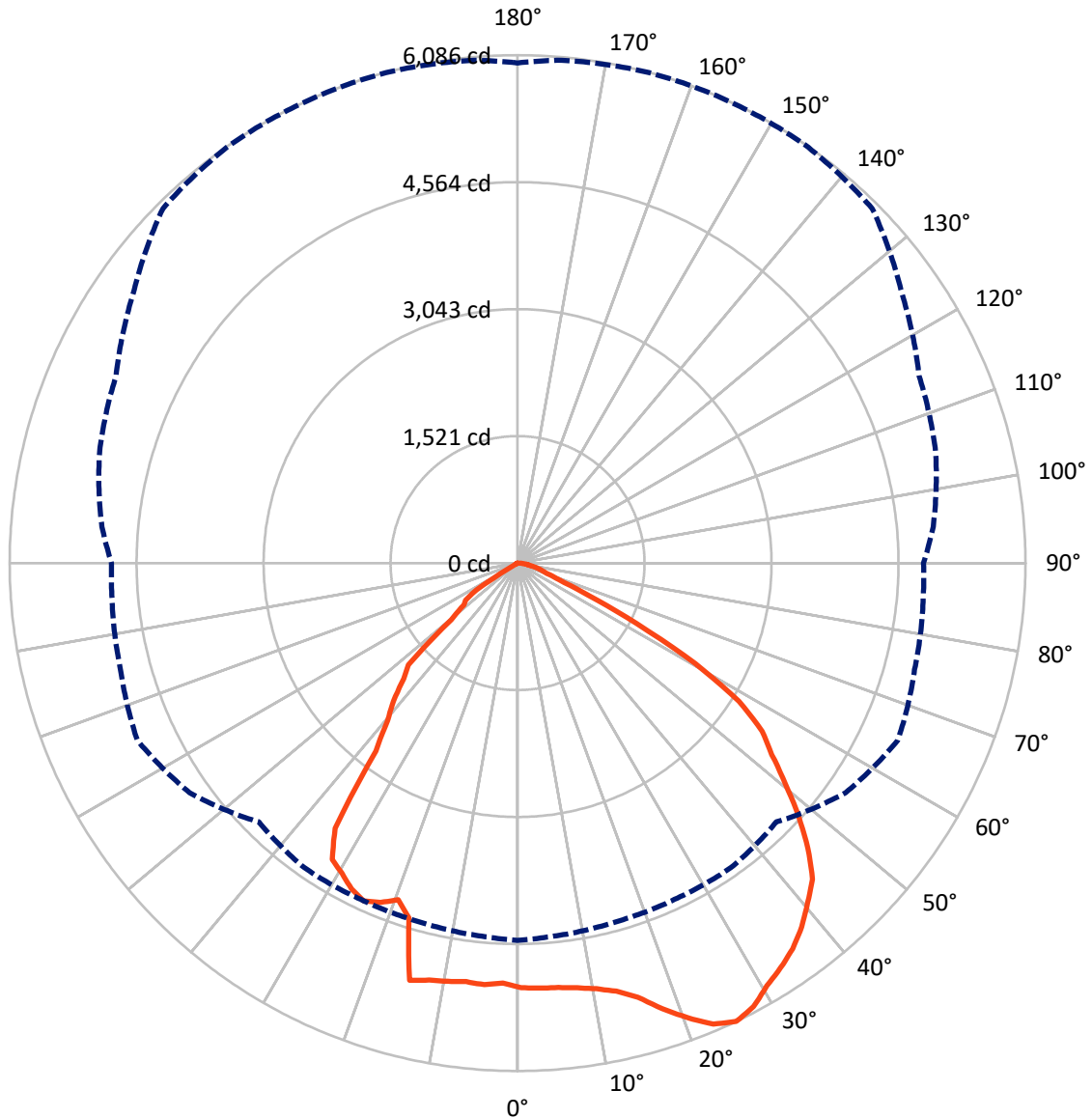
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.7 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	7299.8	0.0	7299.8
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	4491.1	0.0	4491.1
	% Fixture	38.1	0.0	38.1
Total	Lumens	11790.9	0.0	11790.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.1	4.1
10°-20°	1490.3	12.6
20°-30°	2356.1	20.0
30°-40°	2661.5	22.6
40°-50°	2492.5	21.1
50°-60°	1718.4	14.6
60°-70°	461.7	3.9
70°-80°	96.2	0.8
80°-90°	26.0	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°	11790.9	100.0
0°-180°	11790.9	100.0



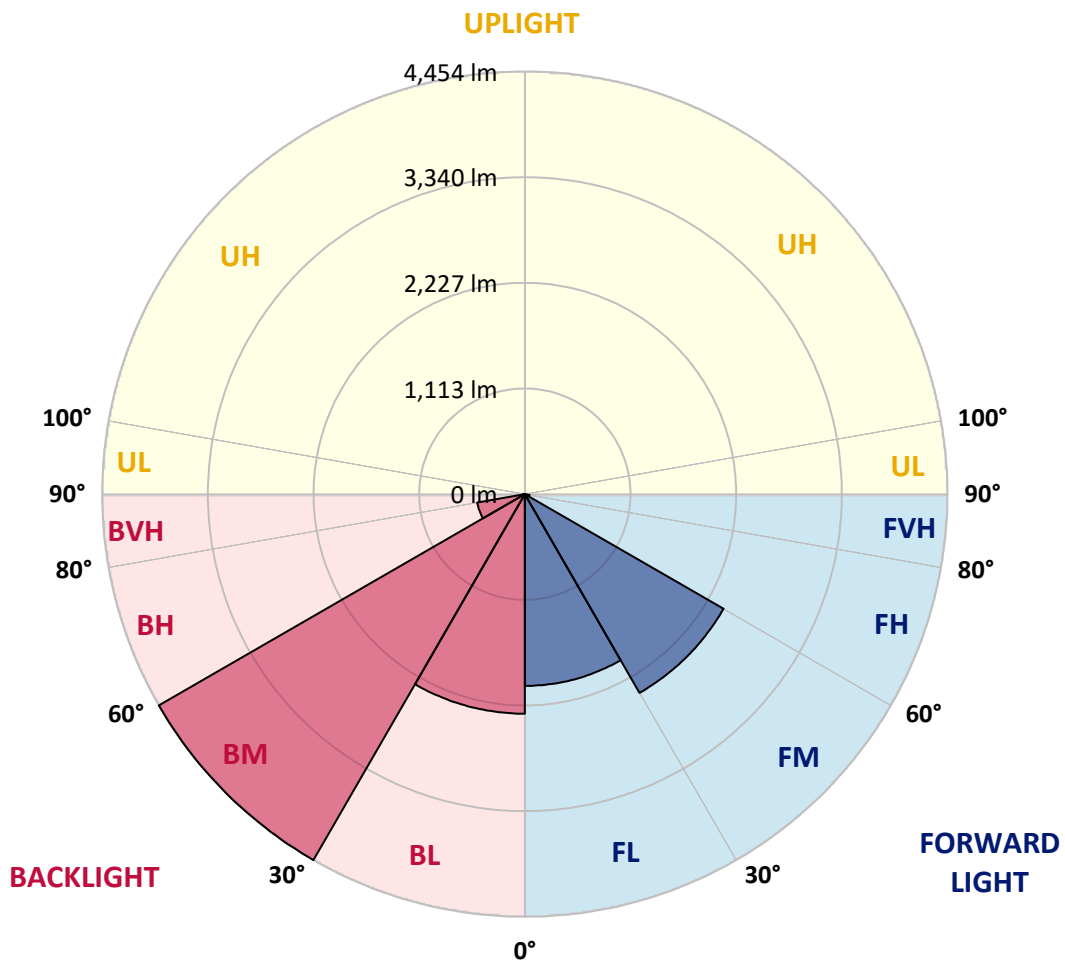
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2020.6	17.1			
FM (30°-60°)	2418.6	20.5			
FH (60°-80°)	48.5	0.4			G0/660
FVH (80°-90°)	3.5	0.0			G0/10
BL (0°-30°)	2314.0	19.6	B3/2500		
BM (30°-60°)	4453.8	37.8	B3/5000		
BH (60°-80°)	509.4	4.3	B2/1000		G2/1000
BVH (80°-90°)	22.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5087.5	5087.5	5087.5	5087.5	5087.5	5087.5	5087.5	5087.5	5087.5	5087.5
2.5°	5110.1	5077.2	5046.0	5035.6	5078.9	5125.7	5096.2	5097.9	5087.5	5106.6
5°	5148.2	5103.1	5082.4	5066.8	5073.7	5122.2	5080.6	5096.2	5078.9	5101.4
7.5°	5134.3	5103.1	5082.4	5052.9	5075.4	5132.6	5092.7	5094.5	5085.8	5106.6
10°	5125.7	5103.1	5077.2	5080.6	5106.6	5155.1	5123.9	5141.3	5129.1	5141.3
12.5°	5146.5	5122.2	5108.3	5108.3	5130.9	5186.3	5170.7	5186.3	5181.1	5191.5
15°	4950.7	4973.2	5104.9	5163.8	5208.8	5264.3	5257.4	5273.0	5276.4	5292.0
17.5°	4176.1	4153.6	4143.2	4446.4	5252.2	5423.7	5418.5	5416.8	5399.5	5387.3
20°	4278.3	4269.7	4257.5	4280.1	4370.2	5506.9	5541.5	5328.4	5266.0	5260.8
22.5°	4441.2	4427.3	4382.3	4384.0	4411.8	4787.8	5370.0	5175.9	5155.1	5143.0
25°	4520.9	4493.2	4456.8	4446.4	4455.1	4385.8	4796.4	5026.9	4924.7	4877.9
27.5°	4380.6	4382.3	4352.8	4380.6	4347.6	4035.7	3860.7	4735.8	4732.3	4711.5
30°	4274.9	4269.7	4235.0	4269.7	4042.7	3694.4	3619.9	4416.9	4380.6	4352.8
32.5°	3950.8	3954.3	4054.8	4190.0	3817.4	3541.9	3316.6	3945.6	4290.5	4274.9
35°	2826.2	2833.2	3190.1	3857.2	3476.0	3238.6	3221.3	3410.2	4148.4	4155.3
37.5°	2720.5	2720.5	2711.9	2821.0	3207.4	3115.6	3150.3	3131.2	3800.1	3817.4
40°	2644.3	2628.7	2616.6	2445.0	2230.1	3029.0	3053.2	2966.6	3592.1	3595.6
42.5°	2552.4	2535.1	2538.6	2221.5	1996.2	2814.1	2746.5	2630.4	3245.6	3249.0
45°	2384.4	2413.8	2434.6	1944.2	1926.9	2010.1	2533.4	2460.6	3011.6	3075.7
47.5°	1213.0	1239.0	1900.9	1788.3	1828.1	1786.5	2140.0	2141.8	2505.7	2718.8
50°	1100.3	1093.4	1095.1	1043.2	1687.8	1445.2	1547.4	1963.3	2006.6	2311.6
52.5°	1025.8	1024.1	918.4	816.2	1060.5	1271.9	1122.9	1420.9	1492.0	1958.1
55°	759.0	814.4	724.3	767.6	663.7	1018.9	1013.7	1282.3	1306.5	1569.9
57.5°	6.9	8.7	20.8	584.0	459.2	509.4	700.1	875.1	918.4	1223.4
60°	1.7	3.5	8.7	17.3	298.0	313.6	467.9	506.0	570.1	729.5
62.5°	0.0	0.0	3.5	8.7	15.6	128.2	149.0	162.9	251.3	372.6
65°	0.0	0.0	1.7	5.2	8.7	20.8	36.4	76.2	109.2	135.2
67.5°	0.0	0.0	1.7	3.5	6.9	10.4	20.8	29.5	46.8	79.7
70°	0.0	0.0	1.7	3.5	5.2	8.7	13.9	20.8	27.7	39.9
72.5°	0.0	0.0	1.7	3.5	3.5	10.4	10.4	15.6	20.8	26.0
75°	0.0	0.0	1.7	1.7	3.5	6.9	10.4	12.1	13.9	20.8
77.5°	0.0	0.0	1.7	3.5	5.2	6.9	8.7	13.9	12.1	12.1
80°	0.0	0.0	1.7	5.2	5.2	8.7	10.4	13.9	8.7	8.7
82.5°	0.0	0.0	1.7	6.9	5.2	17.3	17.3	19.1	6.9	6.9
85°	0.0	0.0	5.2	3.5	10.4	17.3	15.6	10.4	8.7	5.2
87.5°	0.0	0.0	1.7	1.7	3.5	5.2	12.1	10.4	3.5	3.5
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°
5087.5	0°	5087.5	5087.5	5087.5	5087.5	5087.5	5087.5	5087.5	5087.5	5087.5
5056.4	2.5°	5125.7	5103.1	5149.9	5144.7	5122.2	5111.8	5099.7	5089.3	5013.0
5059.8	5°	5127.4	5092.7	5149.9	5139.5	5136.1	5118.7	5108.3	5123.9	5054.6
5073.7	7.5°	5127.4	5092.7	5155.1	5158.6	5153.4	5139.5	5137.8	5148.2	5091.0
5097.9	10°	5162.1	5148.2	5200.2	5205.4	5198.4	5195.0	5186.3	5179.4	5118.7
5181.1	12.5°	5234.8	5207.1	5266.0	5281.6	5276.4	5285.1	5264.3	5274.7	5212.3
5266.0	15°	5323.2	5324.9	5370.0	5404.7	5401.2	5428.9	5397.7	5425.4	5380.4
5363.1	17.5°	5458.4	5477.4	5541.5	5593.5	5612.6	5633.4	5612.6	5621.3	5557.1
5255.6	20°	5316.3	5387.3	5695.8	5791.1	5830.9	5850.0	5815.3	5825.7	5761.6
5123.9	22.5°	5188.1	5279.9	5553.7	5851.7	5974.8	6012.9	6000.7	5999.0	5974.8
4864.0	25°	4999.2	5184.6	5307.6	5623.0	6009.4	6078.7	6085.7	6083.9	6047.5
4704.6	27.5°	4767.0	4808.6	5127.4	5319.7	5766.8	6030.2	6019.8	5969.6	5921.0
4373.6	30°	4470.7	4659.5	4803.4	5110.1	5453.2	5881.2	5881.2	5843.1	5792.8
4255.8	32.5°	4319.9	4564.2	4697.7	4808.6	5101.4	5714.8	5784.1	5744.3	5704.4
4164.0	35°	4240.2	4276.6	4588.5	4689.0	4936.8	5394.3	5675.0	5635.1	5605.7
3919.6	37.5°	4065.2	4150.1	4295.7	4564.2	4640.5	5132.6	5529.4	5508.6	5474.0
3602.5	40°	3675.3	3902.3	4125.8	4380.6	4460.3	4796.4	5352.7	5361.3	5314.5
3264.6	42.5°	3444.8	3599.1	3949.1	4120.6	4335.5	4579.8	5181.1	5195.0	5162.1
3093.1	45°	3174.5	3346.1	3592.1	3904.0	4196.9	4281.8	4877.9	5023.4	4995.7
2751.7	47.5°	2926.7	3065.4	3366.9	3682.2	4006.3	3994.1	4529.6	4803.4	4765.2
2490.1	50°	2575.0	2817.6	2959.7	3249.0	3732.5	3765.4	4158.8	4545.2	4514.0
2115.8	52.5°	2171.2	2476.2	2748.2	3013.4	3455.2	3533.2	3813.9	4281.8	4261.0
1616.7	55°	1897.4	2119.2	2425.9	2639.1	3119.1	3327.0	3555.7	4030.5	4020.1
1329.1	57.5°	1349.9	1777.9	2030.9	2328.9	2581.9	2957.9	3127.7	3519.4	3422.3
736.4	60°	914.9	1115.9	1424.4	1744.9	1914.8	2290.8	2448.5	2762.1	2736.1
440.1	62.5°	483.5	668.9	888.9	1050.1	1173.1	1538.7	1604.6	1942.5	1933.8
176.7	65°	213.1	282.4	481.7	564.9	691.4	861.2	918.4	1039.7	1010.2
86.6	67.5°	110.9	168.1	272.1	334.4	421.1	485.2	532.0	570.1	594.4
57.2	70°	67.6	123.0	168.1	232.2	289.4	341.4	377.8	429.7	460.9
29.5	72.5°	50.3	78.0	116.1	178.5	209.7	270.3	306.7	344.8	372.6
24.3	75°	27.7	52.0	93.6	140.4	168.1	220.1	253.0	279.0	287.6
13.9	77.5°	17.3	39.9	78.0	109.2	131.7	178.5	169.8	194.1	214.9
10.4	80°	12.1	29.5	60.6	90.1	91.8	114.4	135.2	156.0	169.8
6.9	82.5°	8.7	24.3	45.1	69.3	60.6	88.4	105.7	121.3	88.4
5.2	85°	6.9	17.3	22.5	41.6	34.7	62.4	53.7	52.0	34.7
3.5	87.5°	5.2	8.7	15.6	19.1	13.9	13.9	17.3	20.8	17.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
5087.5
4961.1
4995.7
5025.2
5068.5
5156.9
5305.9
5501.7
5716.6
5896.8
5992.1
5882.9
5773.7
5671.5
5564.1
5439.3
5304.2
5158.6
4999.2
4793.0
4519.2
4274.9
4032.3
3411.9
2737.9
1935.6
998.1
594.4
462.7
377.8
282.4
218.3
171.5
64.1
34.7
17.3
0.0

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