

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: P636899

Luminaire Tested: **IFLD-M-SA4C-930-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636899
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-930-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13411.3 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

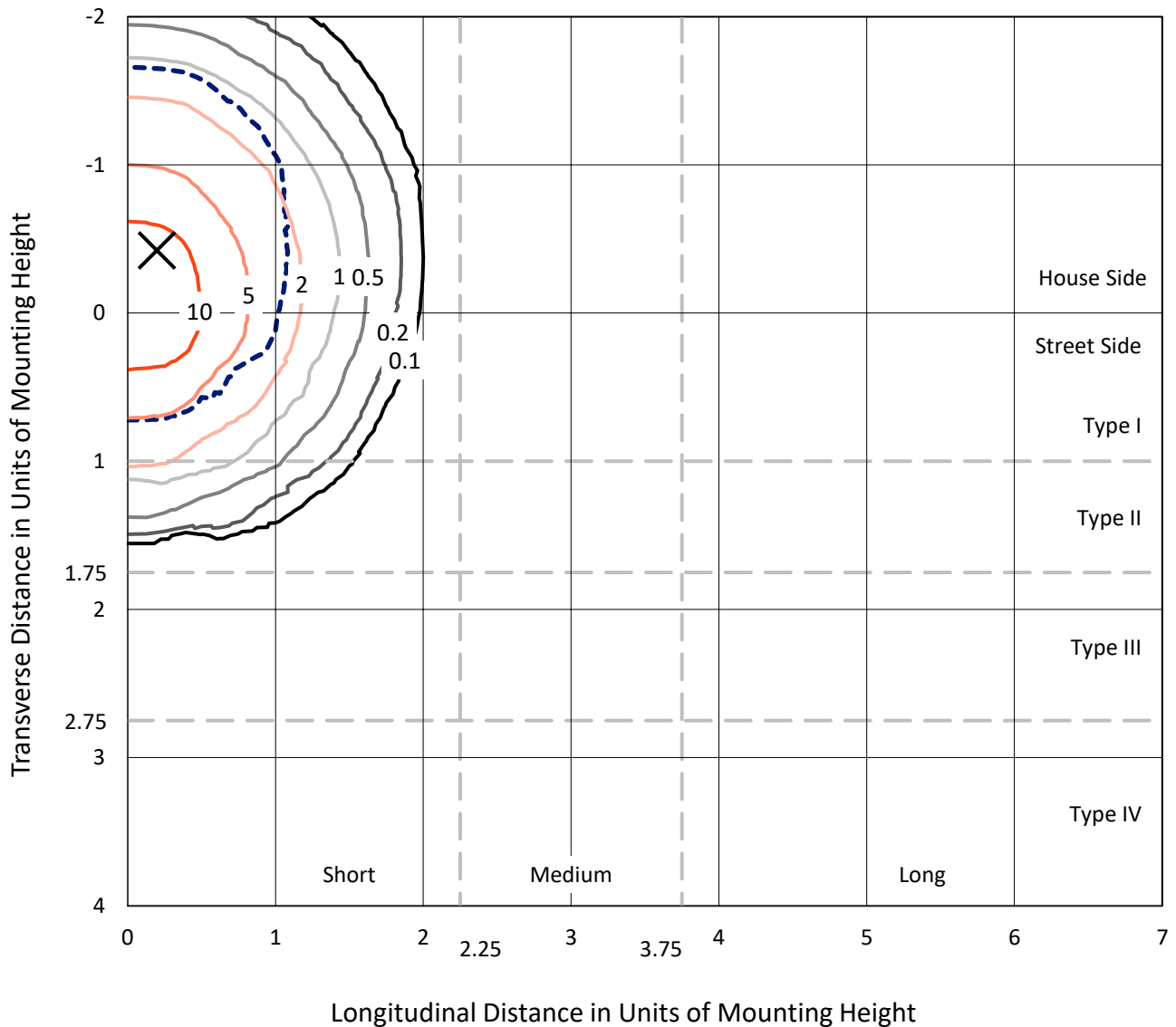
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

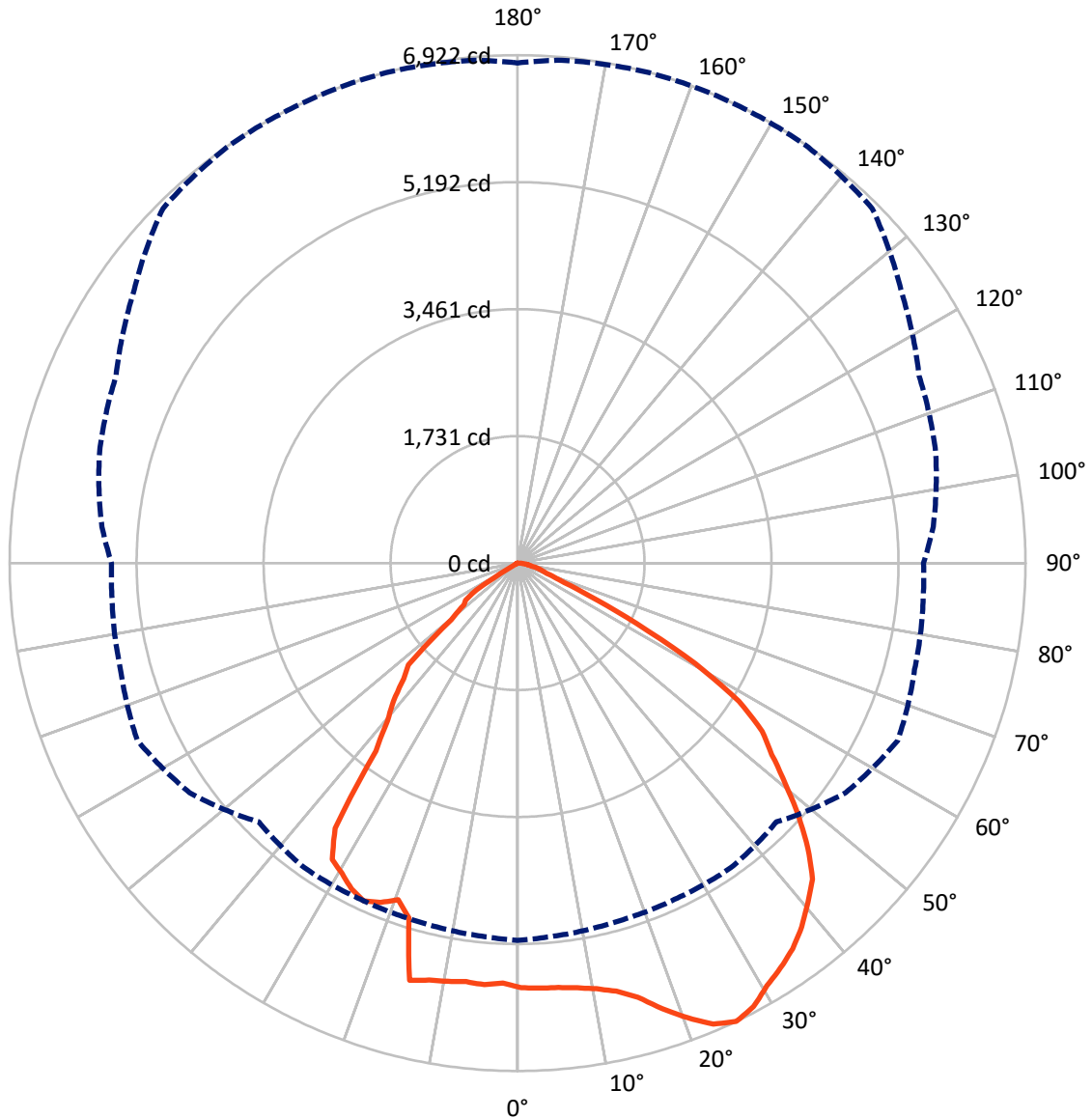
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.5 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	8303.0	0.0	8303.0
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	5108.3	0.0	5108.3
	% Fixture	38.1	0.0	38.1
Total	Lumens	13411.3	0.0	13411.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.2	4.1
10°-20°	1695.2	12.6
20°-30°	2680.0	20.0
30°-40°	3027.2	22.6
40°-50°	2835.1	21.1
50°-60°	1954.6	14.6
60°-70°	525.1	3.9
70°-80°	109.4	0.8
80°-90°	29.6	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°	13411.3	100.0
0°-180°	13411.3	100.0



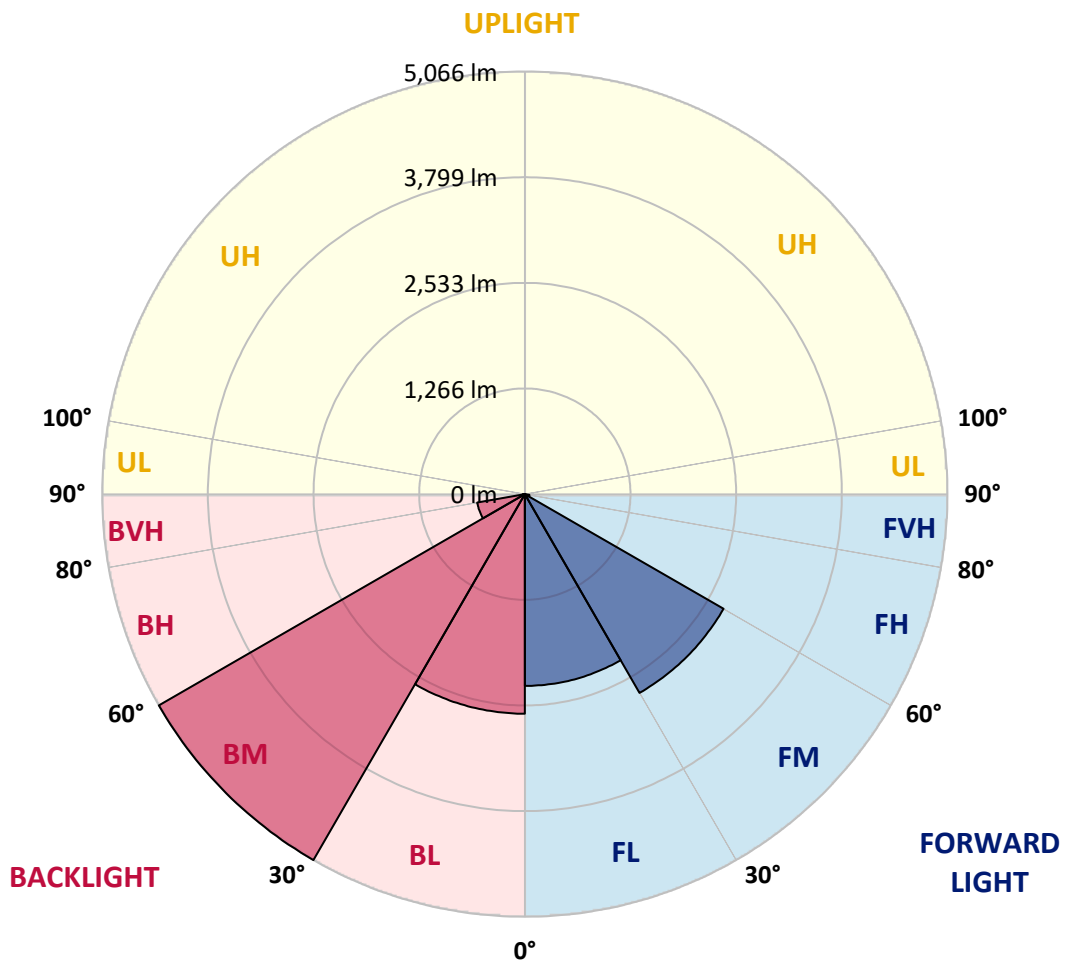
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2298.3	17.1			
FM (30°-60°)	2751.0	20.5			
FH (60°-80°)	55.1	0.4			G0/660
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	2632.0	19.6	B4/5000		
BM (30°-60°)	5065.9	37.8	B4/8500		
BH (60°-80°)	579.4	4.3	B2/1000		G2/1000
BVH (80°-90°)	25.6	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°	5786.7	5786.7	5786.7	5786.7	5786.7	5786.7	5786.7	5786.7	5786.7	5786.7
2.5°	5812.4	5774.9	5739.4	5727.6	5776.9	5830.1	5796.6	5798.6	5786.7	5808.4
5°	5855.7	5804.5	5780.8	5763.1	5771.0	5826.2	5778.9	5796.6	5776.9	5802.5
7.5°	5840.0	5804.5	5780.8	5747.3	5772.9	5838.0	5792.7	5794.6	5784.8	5808.4
10°	5830.1	5804.5	5774.9	5778.9	5808.4	5863.6	5828.1	5847.8	5834.0	5847.8
12.5°	5853.8	5826.2	5810.4	5810.4	5836.0	5899.1	5881.4	5899.1	5893.2	5905.0
15°	5631.0	5656.7	5806.5	5873.5	5924.7	5987.8	5979.9	5997.6	6001.6	6019.3
17.5°	4750.0	4724.4	4712.6	5057.5	5974.0	6169.1	6163.2	6161.2	6141.5	6127.7
20°	4866.3	4856.5	4842.7	4868.3	4970.8	6263.7	6303.1	6060.7	5989.8	5983.8
22.5°	5051.6	5035.8	4984.6	4986.5	5018.1	5445.8	6108.0	5887.3	5863.6	5849.8
25°	5142.2	5110.7	5069.3	5057.5	5067.3	4988.5	5455.6	5717.8	5601.5	5548.3
27.5°	4982.6	4984.6	4951.1	4982.6	4945.1	4590.4	4391.3	5386.6	5382.7	5359.0
30°	4862.4	4856.5	4817.0	4856.5	4598.3	4202.1	4117.3	5024.0	4982.6	4951.1
32.5°	4493.8	4497.7	4612.1	4765.8	4342.0	4028.6	3772.4	4487.9	4880.1	4862.4
35°	3214.6	3222.5	3628.5	4387.4	3953.8	3683.7	3664.0	3878.9	4718.5	4726.4
37.5°	3094.4	3094.4	3084.6	3208.7	3648.3	3543.8	3583.2	3561.5	4322.3	4342.0
40°	3007.7	2990.0	2976.2	2781.0	2536.6	3445.2	3472.8	3374.3	4085.8	4089.7
42.5°	2903.2	2883.5	2887.5	2526.8	2270.5	3200.8	3124.0	2991.9	3691.6	3695.6
45°	2712.0	2745.6	2769.2	2211.4	2191.7	2286.3	2881.5	2798.8	3425.5	3498.5
47.5°	1379.7	1409.2	2162.1	2034.0	2079.4	2032.1	2434.1	2436.1	2850.0	3092.4
50°	1251.6	1243.7	1245.6	1186.5	1919.7	1643.8	1760.1	2233.1	2282.4	2629.3
52.5°	1166.8	1164.8	1044.6	928.3	1206.2	1446.7	1277.2	1616.2	1697.0	2227.2
55°	863.3	926.4	823.9	873.1	754.9	1158.9	1153.0	1458.5	1486.1	1785.7
57.5°	7.9	9.9	23.7	664.2	522.3	579.5	796.3	995.3	1044.6	1391.5
60°	2.0	3.9	9.9	19.7	339.0	356.7	532.2	575.5	648.4	829.8
62.5°	0.0	0.0	3.9	9.9	17.7	145.9	169.5	185.3	285.8	423.8
65°	0.0	0.0	2.0	5.9	9.9	23.7	41.4	86.7	124.2	153.7
67.5°	0.0	0.0	2.0	3.9	7.9	11.8	23.7	33.5	53.2	90.7
70°	0.0	0.0	2.0	3.9	5.9	9.9	15.8	23.7	31.5	45.3
72.5°	0.0	0.0	2.0	3.9	3.9	11.8	11.8	17.7	23.7	29.6
75°	0.0	0.0	2.0	2.0	3.9	7.9	11.8	13.8	15.8	23.7
77.5°	0.0	0.0	2.0	3.9	5.9	7.9	9.9	15.8	13.8	13.8
80°	0.0	0.0	2.0	5.9	5.9	9.9	11.8	15.8	9.9	9.9
82.5°	0.0	0.0	2.0	7.9	5.9	19.7	19.7	21.7	7.9	7.9
85°	0.0	0.0	5.9	3.9	11.8	19.7	17.7	11.8	9.9	5.9
87.5°	0.0	0.0	2.0	2.0	3.9	5.9	13.8	11.8	3.9	3.9
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°
5786.7	0°	5786.7	5786.7	5786.7	5786.7	5786.7	5786.7	5786.7	5786.7	5786.7
5751.3	2.5°	5830.1	5804.5	5857.7	5851.8	5826.2	5814.3	5800.5	5788.7	5702.0
5755.2	5°	5832.1	5792.7	5857.7	5845.9	5841.9	5822.2	5810.4	5828.1	5749.3
5771.0	7.5°	5832.1	5792.7	5863.6	5867.6	5861.6	5845.9	5843.9	5855.7	5790.7
5798.6	10°	5871.5	5855.7	5914.9	5920.8	5912.9	5908.9	5899.1	5891.2	5822.2
5893.2	12.5°	5954.3	5922.7	5989.8	6007.5	6001.6	6011.4	5987.8	5999.6	5928.7
5989.8	15°	6054.8	6056.8	6108.0	6147.4	6143.5	6175.0	6139.5	6171.1	6119.8
6100.1	17.5°	6208.5	6230.2	6303.1	6362.3	6383.9	6407.6	6383.9	6393.8	6320.9
5977.9	20°	6046.9	6127.7	6478.6	6587.0	6632.3	6654.0	6614.6	6626.4	6553.5
5828.1	22.5°	5901.1	6005.5	6316.9	6655.9	6795.9	6839.2	6825.4	6823.5	6795.9
5532.5	25°	5686.2	5897.1	6037.1	6395.8	6835.3	6914.1	6922.0	6920.0	6878.7
5351.2	27.5°	5422.1	5469.4	5832.1	6050.9	6559.4	6859.0	6847.1	6790.0	6734.8
4974.7	30°	5085.1	5299.9	5463.5	5812.4	6202.6	6689.4	6689.4	6646.1	6588.9
4840.7	32.5°	4913.6	5191.5	5343.3	5469.4	5802.5	6500.2	6579.1	6533.7	6488.4
4736.2	35°	4822.9	4864.3	5219.1	5333.4	5615.3	6135.6	6454.9	6409.6	6376.1
4458.3	37.5°	4623.9	4720.5	4886.0	5191.5	5278.2	5838.0	6289.3	6265.7	6226.3
4097.6	40°	4180.4	4438.6	4692.9	4982.6	5073.3	5455.6	6088.3	6098.2	6044.9
3713.3	42.5°	3918.3	4093.7	4491.8	4686.9	4931.3	5209.3	5893.2	5908.9	5871.5
3518.2	45°	3610.8	3805.9	4085.8	4440.6	4773.7	4870.2	5548.3	5713.8	5682.3
3129.9	47.5°	3329.0	3486.6	3829.6	4188.3	4556.9	4543.1	5152.1	5463.5	5420.1
2832.3	50°	2928.9	3204.8	3366.4	3695.6	4245.5	4282.9	4730.3	5169.8	5134.4
2406.5	52.5°	2469.6	2816.5	3125.9	3427.5	3930.1	4018.8	4338.1	4870.2	4846.6
1838.9	55°	2158.2	2410.5	2759.3	3001.8	3547.7	3784.2	4044.4	4584.5	4572.6
1511.7	57.5°	1535.4	2022.2	2310.0	2649.0	2936.7	3364.4	3557.6	4003.0	3892.7
837.7	60°	1040.7	1269.3	1620.1	1984.8	2177.9	2605.6	2785.0	3141.7	3112.2
500.6	62.5°	549.9	760.8	1011.1	1194.4	1334.3	1750.2	1825.1	2209.4	2199.6
201.0	65°	242.4	321.3	547.9	642.5	786.4	979.6	1044.6	1182.6	1149.1
98.5	67.5°	126.1	191.2	309.4	380.4	478.9	551.9	605.1	648.4	676.0
65.0	70°	76.9	139.9	191.2	264.1	329.2	388.3	429.7	488.8	524.3
33.5	72.5°	57.2	88.7	132.1	203.0	238.5	307.5	348.9	392.2	423.8
27.6	75°	31.5	59.1	106.4	159.6	191.2	250.3	287.8	317.3	327.2
15.8	77.5°	19.7	45.3	88.7	124.2	149.8	203.0	193.2	220.7	244.4
11.8	80°	13.8	33.5	69.0	102.5	104.5	130.1	153.7	177.4	193.2
7.9	82.5°	9.9	27.6	51.2	78.8	69.0	100.5	120.2	138.0	100.5
5.9	85°	7.9	19.7	25.6	47.3	39.4	71.0	61.1	59.1	39.4
3.9	87.5°	5.9	9.9	17.7	21.7	15.8	15.8	19.7	23.7	19.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
5786.7
5642.9
5682.3
5715.8
5765.1
5865.6
6035.1
6257.8
6502.2
6707.2
6815.6
6691.4
6567.2
6451.0
6328.8
6186.9
6033.1
5867.6
5686.2
5451.7
5140.3
4862.4
4586.4
3880.8
3114.1
2201.6
1135.3
676.0
526.2
429.7
321.3
248.3
195.1
72.9
39.4
19.7
0.0

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