

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: P638289

Luminaire Tested: **IFLD-M-SA4A-830-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638289
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-830-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11287.1 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

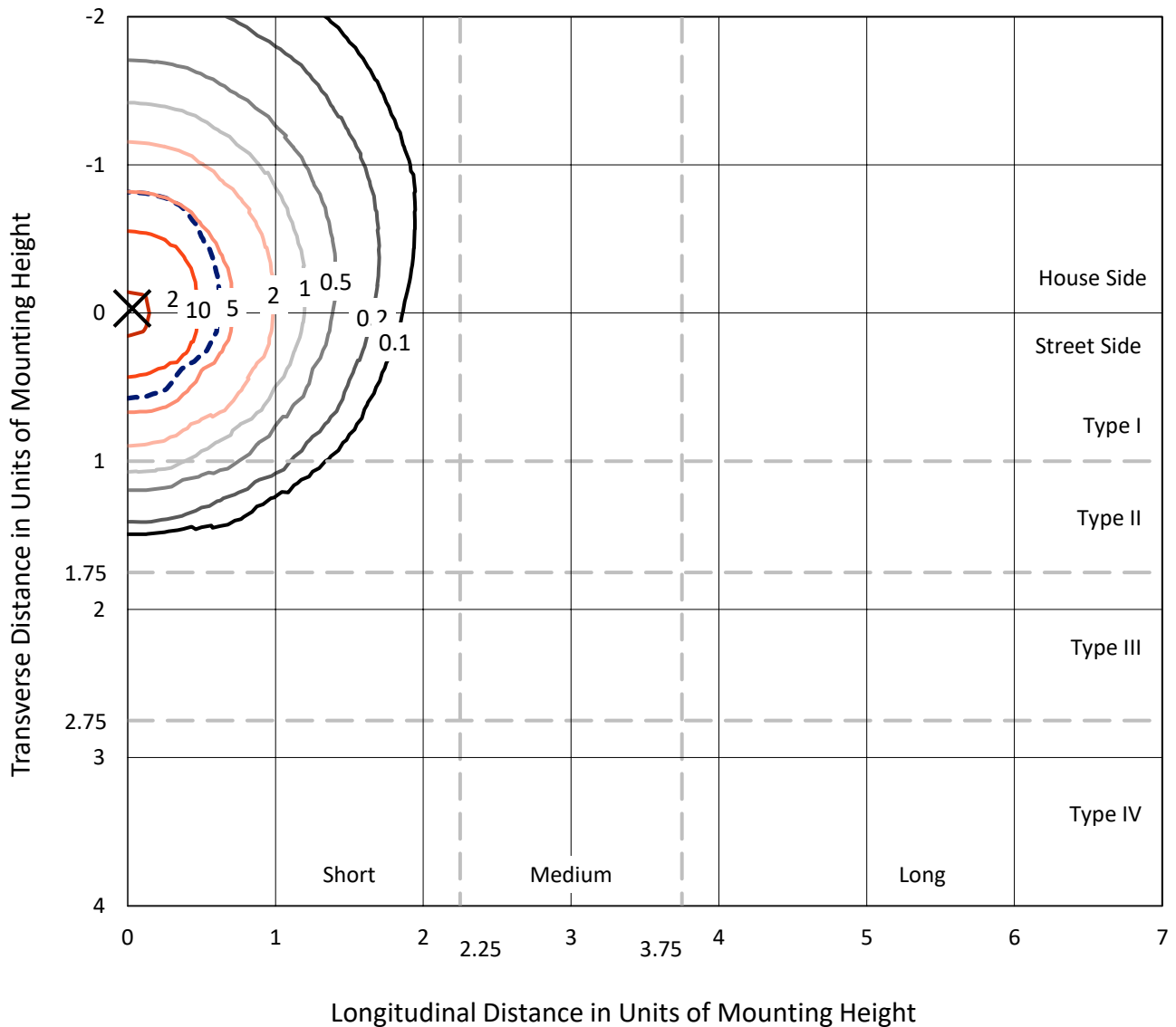
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

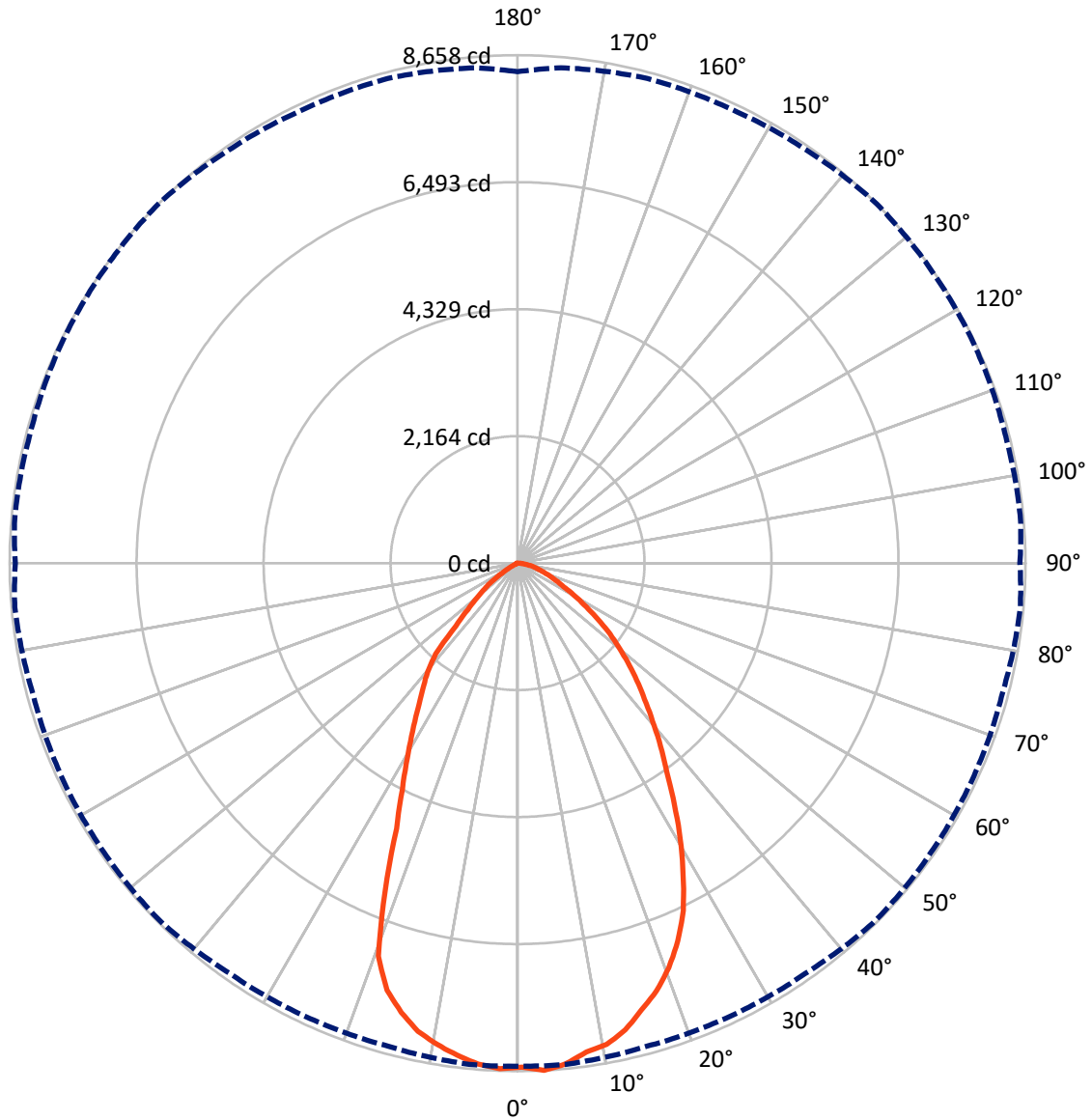
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 21.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6684.8	0.0	6684.8
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	4602.3	0.0	4602.3
	% Fixture	40.8	0.0	40.8
Total	Lumens	11287.1	0.0	11287.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	805.6	7.1
10°-20°	2160.2	19.1
20°-30°	2634.4	23.3
30°-40°	2405.2	21.3
40°-50°	1738.2	15.4
50°-60°	949.1	8.4
60°-70°	392.4	3.5
70°-80°	158.9	1.4
80°-90°	43.2	0.4
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°	11287.1	100.0
0°-180°	11287.1	100.0



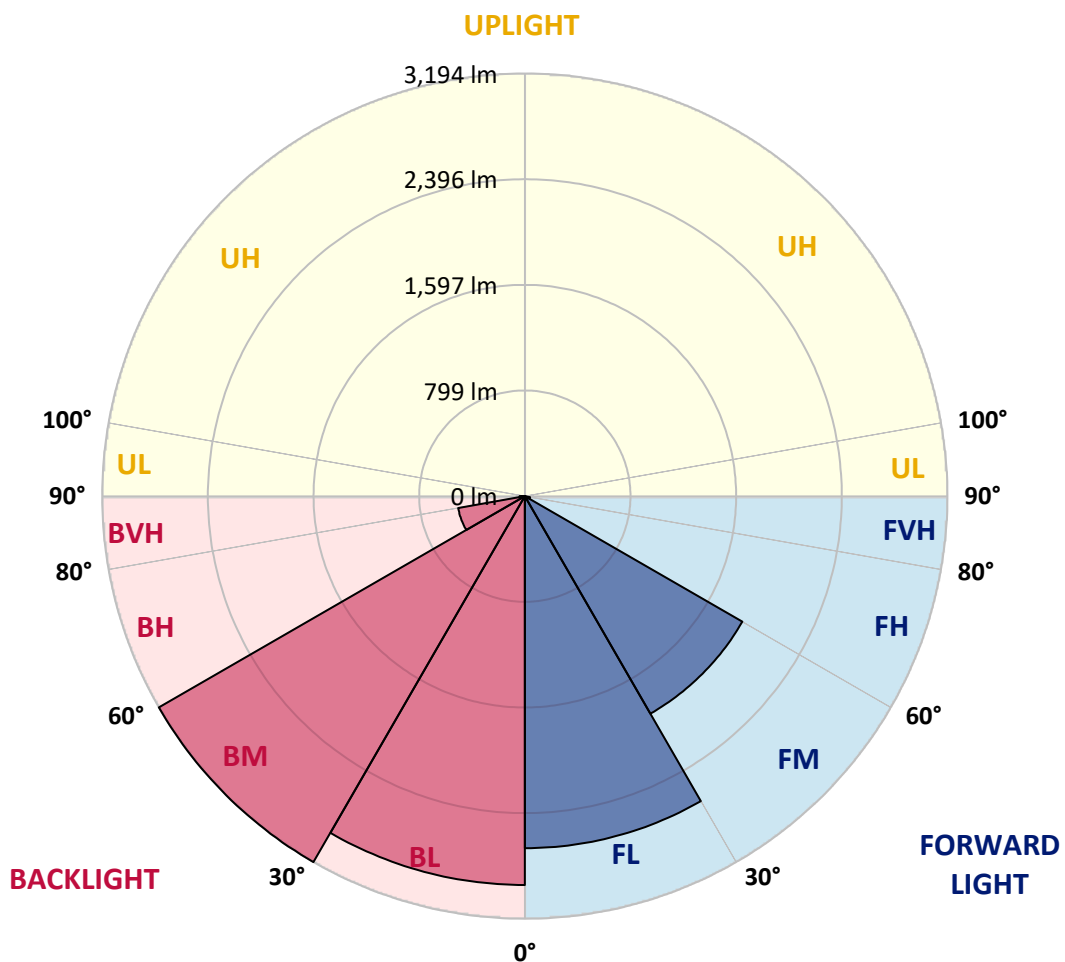
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2660.8	23.6			
FM (30°-60°)	1898.3	16.8			
FH (60°-80°)	39.8	0.4			G0/660
FVH (80°-90°)	3.5	0.0			G0/10
BL (0°-30°)	2939.3	26.0	B4/5000		
BM (30°-60°)	3194.2	28.3	B3/5000		
BH (60°-80°)	511.6	4.5	B2/1000		G2/1000
BVH (80°-90°)	39.8	0.4			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°	8589.5	8589.5	8589.5	8589.5	8589.5	8589.5	8589.5	8589.5	8589.5	8589.5
2.5°	8573.6	8584.7	8524.3	8530.7	8541.8	8622.9	8602.2	8583.1	8556.1	8602.2
5°	8562.5	8568.8	8505.2	8483.0	8492.5	8565.6	8498.9	8498.9	8492.5	8484.6
7.5°	8476.6	8479.8	8430.5	8390.8	8416.2	8449.6	8400.3	8424.2	8389.2	8416.2
10°	8347.9	8327.2	8268.4	8257.3	8285.9	8317.7	8284.3	8306.6	8274.8	8295.4
12.5°	8158.7	8126.9	8079.3	8065.0	8114.2	8157.1	8130.1	8117.4	8076.1	8126.9
15°	7429.2	7405.3	7513.4	7702.6	7872.6	7909.2	7880.6	7893.3	7807.5	7821.8
17.5°	6114.7	6070.2	6186.2	6634.4	7273.4	7610.4	7584.9	7502.3	7375.1	7403.7
20°	5556.8	5544.1	5531.3	5637.8	6084.5	7106.5	7141.5	6931.7	6750.5	6710.7
22.5°	5242.1	5237.3	5224.6	5248.4	5366.0	6022.5	6423.0	6229.1	6108.3	6097.2
25°	4954.4	4946.4	4908.3	4938.5	4938.5	4976.6	5490.0	5607.6	5501.1	5488.4
27.5°	4661.9	4647.6	4641.2	4655.5	4582.4	4324.9	4455.3	5029.1	4973.4	4976.6
30°	4345.6	4340.8	4323.3	4353.5	4127.8	3808.4	3725.7	4504.5	4515.7	4512.5
32.5°	3875.1	3895.8	3975.3	4008.6	3636.7	3372.8	3234.6	3897.4	4124.7	4119.9
35°	2814.9	2814.9	3074.0	3555.6	3186.9	2988.2	2913.5	3304.5	3738.4	3754.3
37.5°	2314.3	2322.2	2373.1	2592.4	2749.8	2679.8	2657.6	2781.6	3242.5	3267.9
40°	2082.2	2082.2	2082.2	1991.6	1986.8	2414.4	2401.7	2361.9	2800.6	2856.3
42.5°	1870.8	1875.6	1878.7	1649.9	1522.7	2087.0	2058.4	1998.0	2404.9	2470.0
45°	1653.0	1661.0	1670.5	1379.7	1324.0	1502.0	1742.1	1675.3	2013.9	2098.1
47.5°	1009.3	1022.0	1238.2	1169.8	1176.2	1158.7	1421.0	1409.9	1651.5	1770.7
50°	681.9	686.6	707.3	742.3	1009.3	910.8	1006.1	1166.7	1254.1	1435.3
52.5°	572.2	580.2	529.3	481.6	662.8	712.1	702.5	866.3	901.2	1125.3
55°	402.1	427.6	403.7	399.0	376.7	553.1	532.5	666.0	688.2	855.1
57.5°	41.3	47.7	82.7	297.2	246.4	313.1	379.9	488.0	510.2	631.0
60°	3.2	3.2	7.9	41.3	179.6	187.6	262.3	300.4	343.3	440.3
62.5°	0.0	1.6	3.2	6.4	28.6	100.1	131.9	157.4	206.6	284.5
65°	0.0	0.0	1.6	4.8	6.4	38.1	50.9	82.7	112.9	176.4
67.5°	0.0	0.0	1.6	3.2	4.8	9.5	17.5	30.2	60.4	100.1
70°	0.0	0.0	1.6	3.2	4.8	7.9	12.7	19.1	27.0	54.0
72.5°	0.0	0.0	1.6	1.6	3.2	7.9	9.5	12.7	19.1	27.0
75°	0.0	0.0	1.6	1.6	4.8	9.5	7.9	9.5	12.7	17.5
77.5°	0.0	0.0	1.6	3.2	4.8	9.5	7.9	9.5	9.5	11.1
80°	0.0	0.0	1.6	3.2	6.4	11.1	9.5	9.5	7.9	7.9
82.5°	0.0	0.0	1.6	4.8	6.4	14.3	14.3	12.7	6.4	4.8
85°	0.0	0.0	3.2	6.4	9.5	15.9	15.9	12.7	4.8	3.2
87.5°	0.0	0.0	3.2	4.8	7.9	11.1	15.9	12.7	4.8	1.6
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°
8589.5	0°	8589.5	8589.5	8589.5	8589.5	8589.5	8589.5	8589.5	8589.5	8589.5
8562.5	2.5°	8605.4	8595.8	8627.6	8640.3	8657.8	8591.1	8549.7	8551.3	8475.0
8465.5	5°	8516.4	8518.0	8559.3	8556.1	8573.6	8537.0	8521.1	8494.1	8427.4
8343.1	7.5°	8403.5	8389.2	8428.9	8459.1	8414.6	8440.1	8403.5	8416.2	8376.5
8235.0	10°	8316.1	8282.7	8319.3	8339.9	8341.5	8316.1	8281.1	8247.7	8233.4
8066.5	12.5°	8122.2	8079.3	8141.2	8169.9	8165.1	8115.8	8076.1	8084.0	8037.9
7770.9	15°	7855.1	7856.7	7901.2	7928.3	7902.8	7891.7	7894.9	7875.8	7836.1
7362.4	17.5°	7446.7	7470.5	7588.1	7653.3	7667.6	7645.3	7634.2	7612.0	7572.2
6710.7	20°	6766.4	6909.4	7119.2	7321.1	7360.8	7354.5	7314.7	7305.2	7282.9
6065.4	22.5°	6168.7	6275.2	6518.4	6833.1	6995.2	7011.1	6963.5	6949.1	6925.3
5488.4	25°	5550.4	5664.9	5884.2	6225.9	6561.3	6629.7	6621.7	6578.8	6553.4
4976.6	27.5°	5029.1	5143.5	5342.2	5650.6	6009.8	6229.1	6249.8	6181.4	6179.8
4520.4	30°	4558.6	4715.9	4866.9	5118.1	5466.2	5795.2	5830.2	5782.5	5787.2
4102.4	32.5°	4189.8	4320.2	4448.9	4617.4	4906.7	5289.7	5426.4	5381.9	5364.5
3754.3	35°	3813.1	3902.1	4034.1	4188.2	4385.3	4765.2	5002.1	4968.7	4951.2
3283.8	37.5°	3384.0	3536.6	3631.9	3805.2	3959.4	4261.4	4595.1	4590.4	4553.8
2883.3	40°	2943.7	3104.2	3248.9	3423.7	3542.9	3782.9	4153.3	4151.7	4156.5
2468.4	42.5°	2544.7	2692.6	2867.4	3058.1	3172.6	3347.4	3744.8	3767.0	3794.1
2126.7	45°	2183.9	2317.4	2479.6	2711.6	2849.9	2950.1	3302.9	3404.6	3403.0
1821.5	47.5°	1859.7	1985.2	2121.9	2347.6	2524.1	2614.7	2907.1	3051.8	3042.2
1494.1	50°	1560.9	1672.1	1815.2	1978.9	2215.7	2295.2	2512.9	2703.7	2689.4
1190.5	52.5°	1255.7	1409.9	1530.7	1680.1	1929.6	2007.5	2176.0	2361.9	2350.8
893.3	55°	979.1	1128.5	1274.8	1403.5	1613.3	1729.3	1850.1	2040.9	2037.7
699.4	57.5°	740.7	904.4	1042.7	1165.1	1332.0	1475.0	1572.0	1745.2	1767.5
478.4	60°	548.4	673.9	823.3	960.0	1092.0	1239.8	1305.0	1475.0	1484.6
327.4	62.5°	373.5	511.8	658.0	782.0	880.6	1033.2	1092.0	1231.8	1249.3
209.8	65°	259.1	348.1	515.0	604.0	724.8	855.1	913.9	1025.2	1060.2
120.8	67.5°	171.7	248.0	402.1	483.2	602.4	691.4	766.1	856.7	894.9
76.3	70°	93.8	182.8	287.7	381.5	484.8	570.6	643.7	716.8	750.2
35.0	72.5°	63.6	122.4	200.3	302.0	391.0	475.3	540.4	594.5	596.1
20.7	75°	31.8	82.7	152.6	233.7	305.2	387.8	446.6	478.4	440.3
12.7	77.5°	19.1	60.4	124.0	187.6	248.0	313.1	346.5	364.0	302.0
9.5	80°	11.1	42.9	97.0	149.4	171.7	230.5	262.3	267.0	201.9
6.4	82.5°	7.9	31.8	76.3	109.7	104.9	162.1	197.1	190.7	128.7
4.8	85°	4.8	22.3	47.7	68.3	63.6	106.5	114.4	117.6	74.7
3.2	87.5°	3.2	12.7	25.4	36.6	30.2	46.1	46.1	55.6	36.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8589.5
8376.5
8411.5
8309.7
8169.9
7998.2
7796.3
7554.7
7232.1
6918.9
6526.4
6176.7
5763.4
5366.0
4927.3
4584.0
4156.5
3779.8
3406.2
3045.4
2702.1
2374.7
2045.6
1758.0
1498.9
1252.5
1052.2
890.1
737.5
581.7
411.7
290.9
189.1
119.2
68.3
31.8
0.0

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