

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: P637319

Luminaire Tested: **IFLD-S-SA2C-730-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637319
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-730-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12483 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

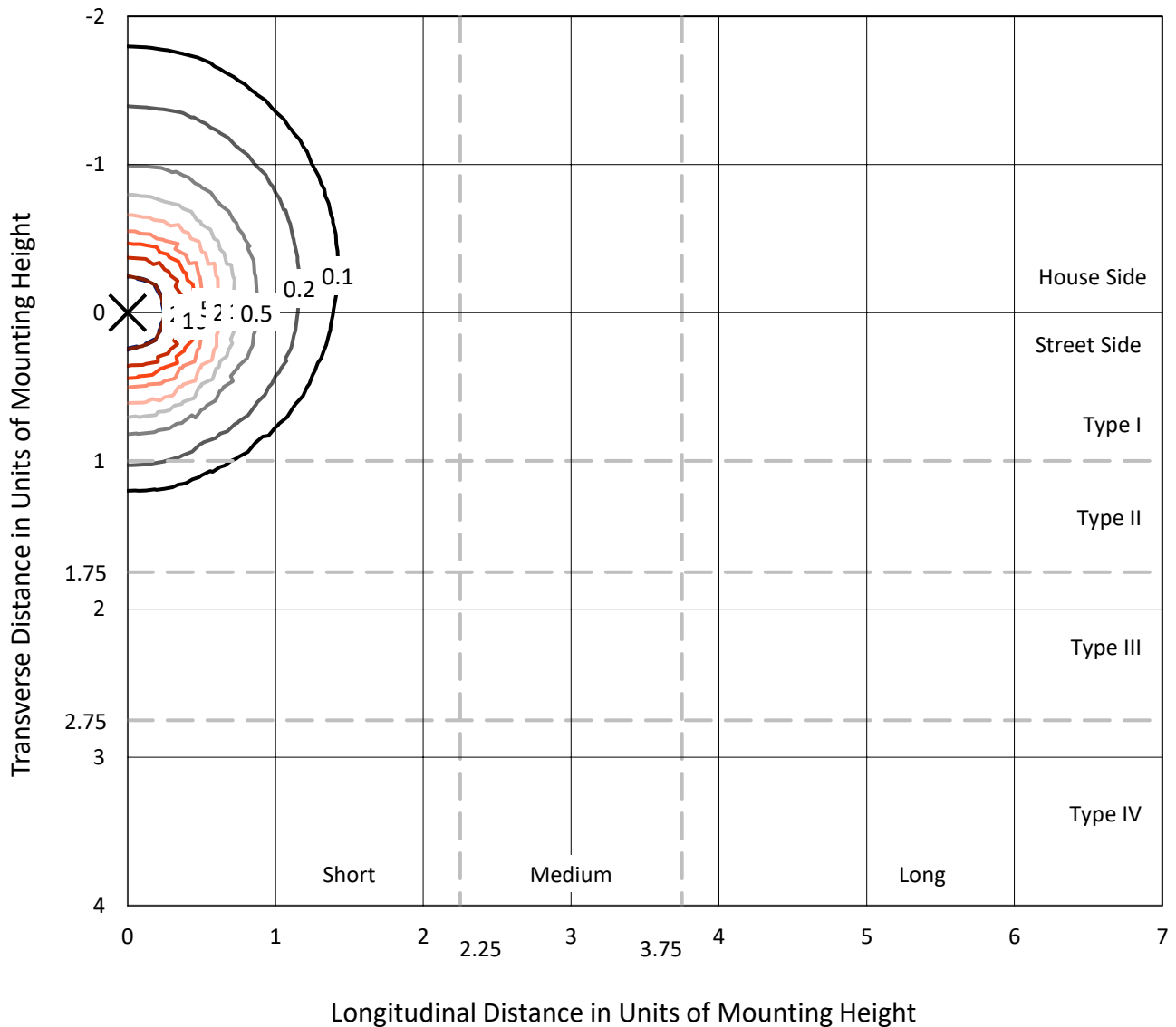
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

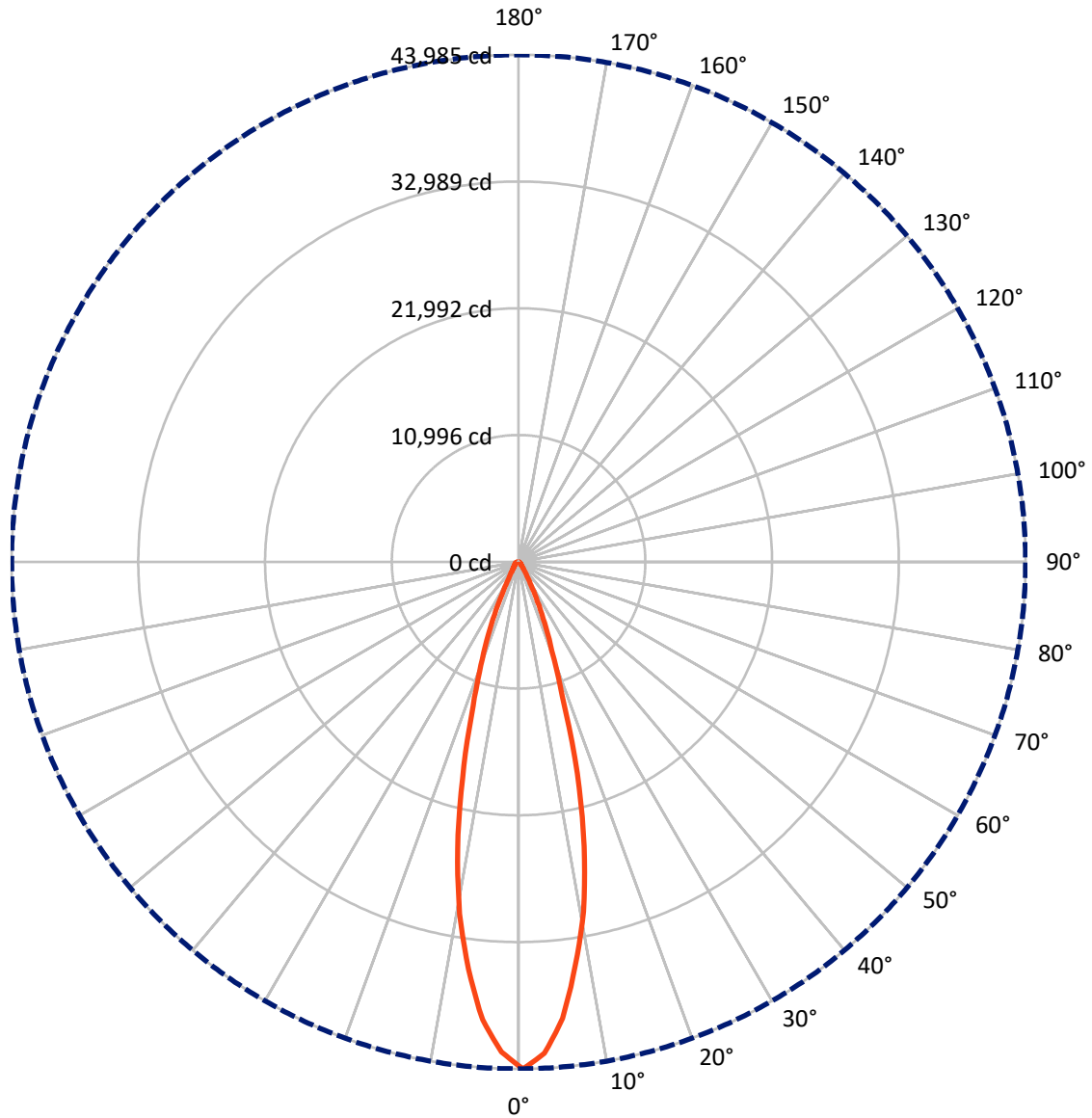
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 110 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6581.9	0.0	6581.9
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	5901.1	0.0	5901.1
	% Fixture	47.3	0.0	47.3
Total	Lumens	12483.0	0.0	12483.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3550.0	28.4
10°-20°	5376.4	43.1
20°-30°	2268.9	18.2
30°-40°	591.7	4.7
40°-50°	299.3	2.4
50°-60°	195.6	1.6
60°-70°	117.2	0.9
70°-80°	61.7	0.5
80°-90°	22.3	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°	12483.0	100.0
0°-180°	12483.0	100.0

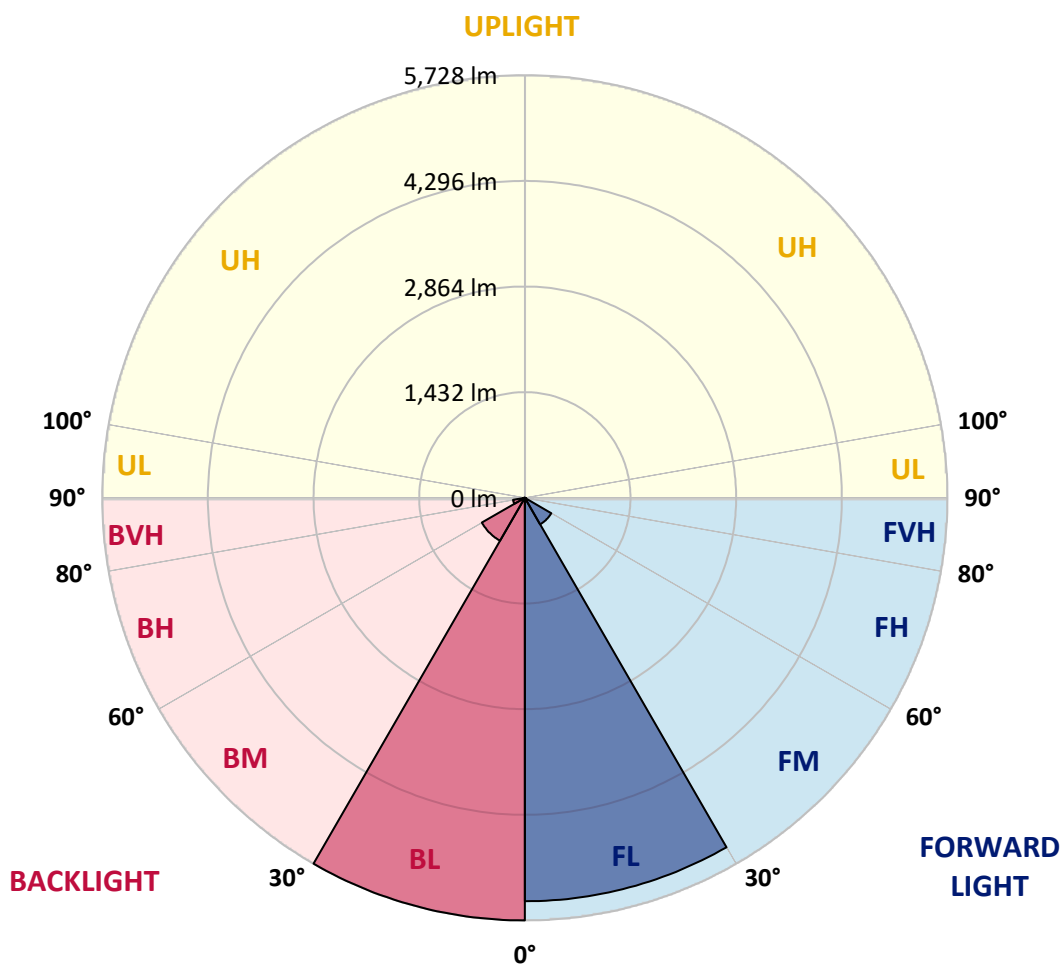


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5467.5	43.8			
FM (30°-60°)	414.1	3.3			
FH (60°-80°)	16.9	0.1			G0/660
FVH (80°-90°)	2.7	0.0			G0/10
BL (0°-30°)	5727.7	45.9	B5		
BM (30°-60°)	672.6	5.4	B1/1000		
BH (60°-80°)	162.0	1.3	B1/500		G0/660
BVH (80°-90°)	19.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	43984.8	43984.8	43984.8	43984.8	43984.8	43984.8	43984.8	43984.8	43984.8	43984.8
2.5°	42703.5	42727.4	42639.0	42829.7	42681.1	43079.2	42881.6	43190.0	43086.2	43258.7
5°	39787.6	39748.4	39723.2	40019.0	39933.4	40361.0	40087.6	39997.9	40275.5	40225.0
7.5°	35384.4	35488.1	35429.3	35506.4	35549.8	36037.7	36191.9	36071.3	36075.5	36145.6
10°	30870.4	30717.6	30500.3	30644.7	30950.3	31163.4	31077.9	31254.5	31215.3	31382.1
12.5°	25316.2	25436.8	25314.8	25185.9	25720.0	25661.1	25809.7	25906.4	25663.9	26203.6
15°	19069.5	19132.6	19281.2	19271.4	19682.1	19764.9	19745.2	19847.6	19658.3	19748.0
17.5°	12250.9	12464.0	12863.5	13539.2	14299.0	14387.3	14364.9	14280.8	14189.6	14088.7
20°	8228.9	8206.5	8350.9	8548.6	10121.4	10537.8	10525.2	10261.6	9880.3	9807.4
22.5°	5764.5	5806.5	5786.9	5983.1	6308.4	7456.5	7314.9	7047.2	6922.4	6841.1
25°	3792.0	3776.6	3874.7	3933.6	4212.6	4352.8	4849.0	4749.5	4557.5	4578.5
27.5°	2311.7	2331.3	2367.7	2418.2	2615.9	2571.0	2854.2	2892.0	2830.4	2764.5
30°	1418.7	1432.7	1462.1	1498.6	1567.3	1518.2	1596.7	1732.7	1710.3	1664.0
32.5°	963.1	964.5	985.5	999.5	991.1	944.9	970.1	1099.1	1101.9	1097.7
35°	692.5	692.5	712.1	723.4	699.5	661.7	665.9	745.8	780.8	787.8
37.5°	478.0	479.4	513.1	546.7	520.1	510.3	493.5	546.7	602.8	611.2
40°	363.1	361.7	378.5	403.7	406.5	388.3	393.9	427.6	485.0	492.1
42.5°	294.4	295.8	304.2	301.4	302.8	326.6	335.0	350.5	403.7	416.4
45°	248.1	249.5	253.7	239.7	234.1	270.6	281.8	290.2	335.0	350.5
47.5°	204.7	207.5	211.7	196.3	193.5	217.3	236.9	245.3	284.6	301.4
50°	147.2	150.0	165.4	157.0	165.4	171.0	197.7	210.3	236.9	259.3
52.5°	106.5	109.3	113.6	115.0	136.0	138.8	158.4	178.0	190.7	215.9
55°	84.1	86.9	84.1	81.3	99.5	115.0	122.0	143.0	152.8	182.2
57.5°	47.7	50.5	54.7	63.1	65.9	88.3	95.3	113.6	122.0	150.0
60°	8.4	9.8	15.4	37.9	46.3	56.1	71.5	86.9	98.1	117.8
62.5°	1.4	1.4	2.8	8.4	26.6	39.3	51.9	61.7	71.5	89.7
65°	0.0	0.0	1.4	2.8	7.0	22.4	28.0	36.4	49.1	64.5
67.5°	0.0	0.0	1.4	2.8	4.2	8.4	12.6	22.4	28.0	43.5
70°	0.0	0.0	1.4	2.8	4.2	5.6	7.0	9.8	16.8	26.6
72.5°	0.0	0.0	1.4	2.8	4.2	5.6	7.0	8.4	8.4	16.8
75°	0.0	0.0	1.4	2.8	4.2	7.0	8.4	8.4	7.0	7.0
77.5°	0.0	0.0	1.4	2.8	5.6	8.4	9.8	8.4	5.6	5.6
80°	0.0	0.0	2.8	4.2	7.0	9.8	12.6	9.8	5.6	2.8
82.5°	0.0	0.0	2.8	5.6	7.0	11.2	15.4	12.6	5.6	2.8
85°	0.0	0.0	1.4	4.2	8.4	11.2	15.4	11.2	5.6	1.4
87.5°	0.0	0.0	1.4	1.4	2.8	4.2	8.4	7.0	2.8	1.4
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°
43984.8	0°	43984.8	43984.8	43984.8	43984.8	43984.8	43984.8	43984.8	43984.8	43984.8
42932.0	2.5°	43178.7	43403.0	43449.3	43387.6	43477.3	43316.1	43192.8	42873.1	42681.1
40209.6	5°	40469.0	40435.3	40669.4	40746.5	40736.7	40613.3	40440.9	40247.5	40059.6
36009.6	7.5°	36233.9	36277.4	36490.5	36626.4	36557.8	36403.6	36284.4	36138.6	36012.4
31442.4	10°	31729.7	31431.1	31696.1	31696.1	31879.7	31443.8	31484.4	31117.1	31134.0
26193.8	12.5°	26283.5	26391.5	26434.9	26559.7	26345.2	26113.9	25830.7	25774.6	25599.4
19577.0	15°	19858.8	20167.2	19902.2	20355.0	20136.3	19895.2	19851.8	19417.2	19554.6
14199.5	17.5°	14129.4	14470.0	14576.6	14835.9	14636.8	14493.9	14313.0	14181.2	14171.4
9940.6	20°	10019.1	10361.2	10439.7	10750.9	10728.4	10683.6	10530.8	10364.0	10183.1
6766.8	22.5°	6869.1	7148.1	7408.8	7828.0	7821.0	7689.2	7673.8	7438.3	7442.5
4571.5	25°	4619.1	4822.4	4884.1	5313.1	5360.7	5346.7	5266.8	5048.1	5130.8
2792.5	27.5°	2795.3	2973.3	3182.2	3333.6	3476.6	3454.2	3374.3	3252.3	3199.0
1678.0	30°	1722.9	1802.8	1879.9	2062.1	2147.7	2192.5	2154.7	2041.1	2049.5
1104.7	32.5°	1128.5	1195.8	1251.9	1366.8	1411.7	1494.4	1479.0	1455.1	1427.1
794.9	35°	822.9	872.0	909.8	963.1	1020.6	1090.6	1101.9	1092.1	1080.8
614.0	37.5°	628.0	678.5	722.0	744.4	789.2	843.9	874.8	873.4	864.9
500.5	40°	510.3	548.1	587.4	616.8	647.7	688.3	726.2	730.4	730.4
420.6	42.5°	426.2	458.4	497.7	528.5	550.9	588.8	628.0	630.8	628.0
356.1	45°	364.5	392.5	430.4	466.8	485.0	513.1	550.9	559.3	553.7
305.6	47.5°	316.8	342.1	374.3	413.5	433.2	458.4	493.5	503.3	501.9
263.6	50°	272.0	301.4	333.6	365.9	391.1	415.0	448.6	459.8	455.6
224.3	52.5°	239.7	266.4	294.4	329.4	358.9	379.9	406.5	426.2	420.6
189.3	55°	200.5	232.7	262.1	291.6	328.0	350.5	375.7	399.5	393.9
159.8	57.5°	173.8	200.5	234.1	260.7	297.2	323.8	349.1	374.3	372.9
130.4	60°	145.8	173.8	206.1	234.1	267.8	297.2	322.4	350.5	353.3
98.1	62.5°	115.0	148.6	176.6	208.9	242.5	274.8	297.2	325.2	329.4
74.3	65°	86.9	122.0	152.8	183.6	217.3	252.3	272.0	295.8	300.0
54.7	67.5°	64.5	93.9	130.4	158.4	193.5	227.1	245.3	265.0	272.0
33.6	70°	49.1	71.5	109.3	136.0	172.4	199.1	218.7	235.5	241.1
22.4	72.5°	30.8	56.1	88.3	116.4	148.6	172.4	186.4	196.3	204.7
12.6	75°	21.0	43.5	71.5	99.5	123.4	141.6	154.2	162.6	169.6
5.6	77.5°	12.6	33.6	58.9	82.7	98.1	112.1	124.8	130.4	134.6
4.2	80°	7.0	25.2	49.1	67.3	77.1	86.9	96.7	103.7	106.5
2.8	82.5°	4.2	19.6	39.3	51.9	56.1	65.9	75.7	79.9	79.9
1.4	85°	2.8	14.0	26.6	37.9	40.7	47.7	50.5	53.3	56.1
1.4	87.5°	2.8	8.4	16.8	21.0	22.4	25.2	26.6	29.4	32.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
43984.8
42539.5
39849.3
35584.9
30969.9
25439.6
19417.2
13910.7
10104.6
7361.2
5000.4
3152.8
2013.1
1417.3
1076.6
860.7
722.0
625.2
553.7
499.1
452.8
419.2
396.7
374.3
354.7
332.2
304.2
274.8
243.9
203.3
168.2
133.2
103.7
78.5
54.7
30.8
0.0

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