

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: P637333

Luminaire Tested: **IFLD-M-SA4B-730-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637333
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-730-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20058.9 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

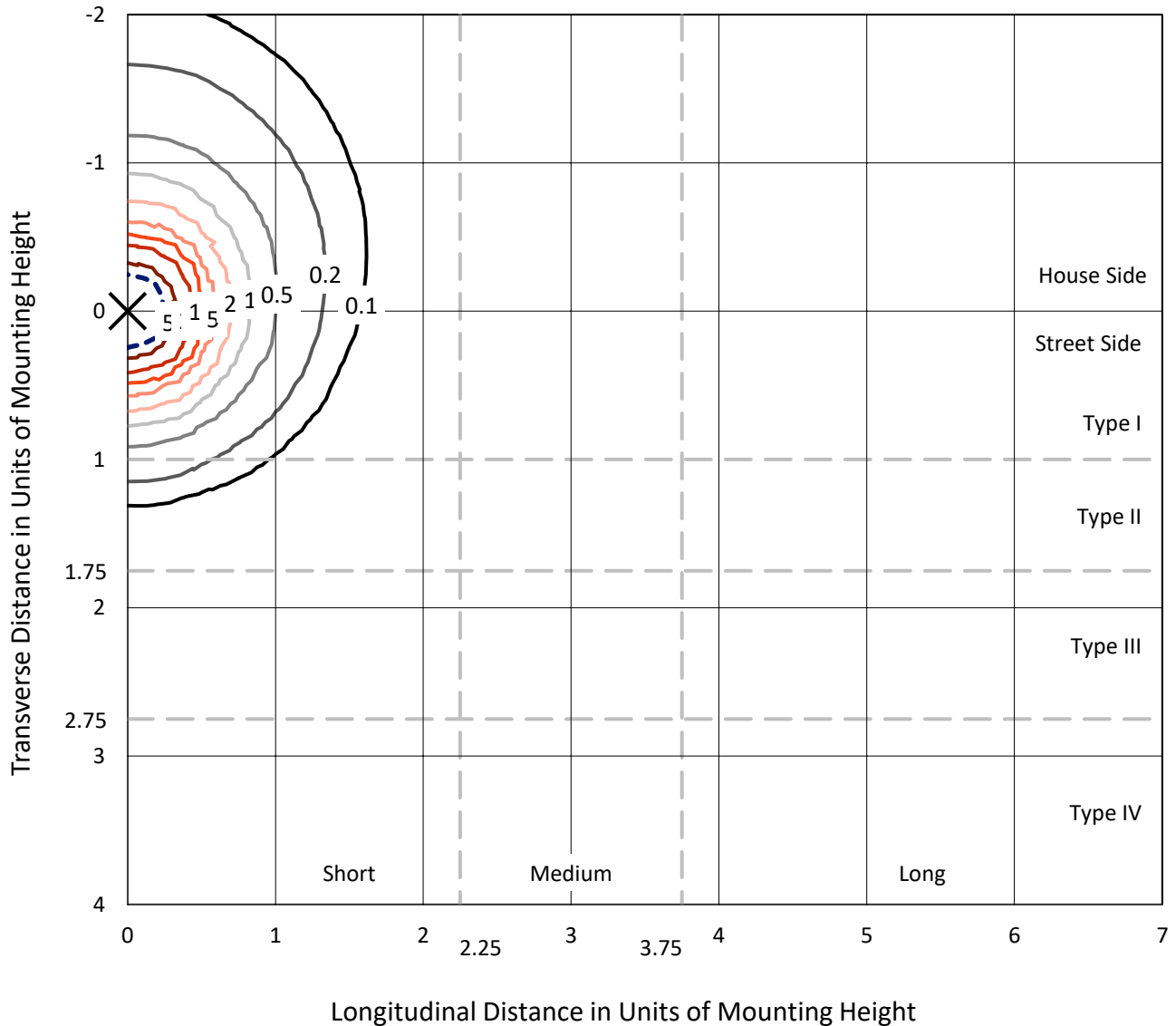
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

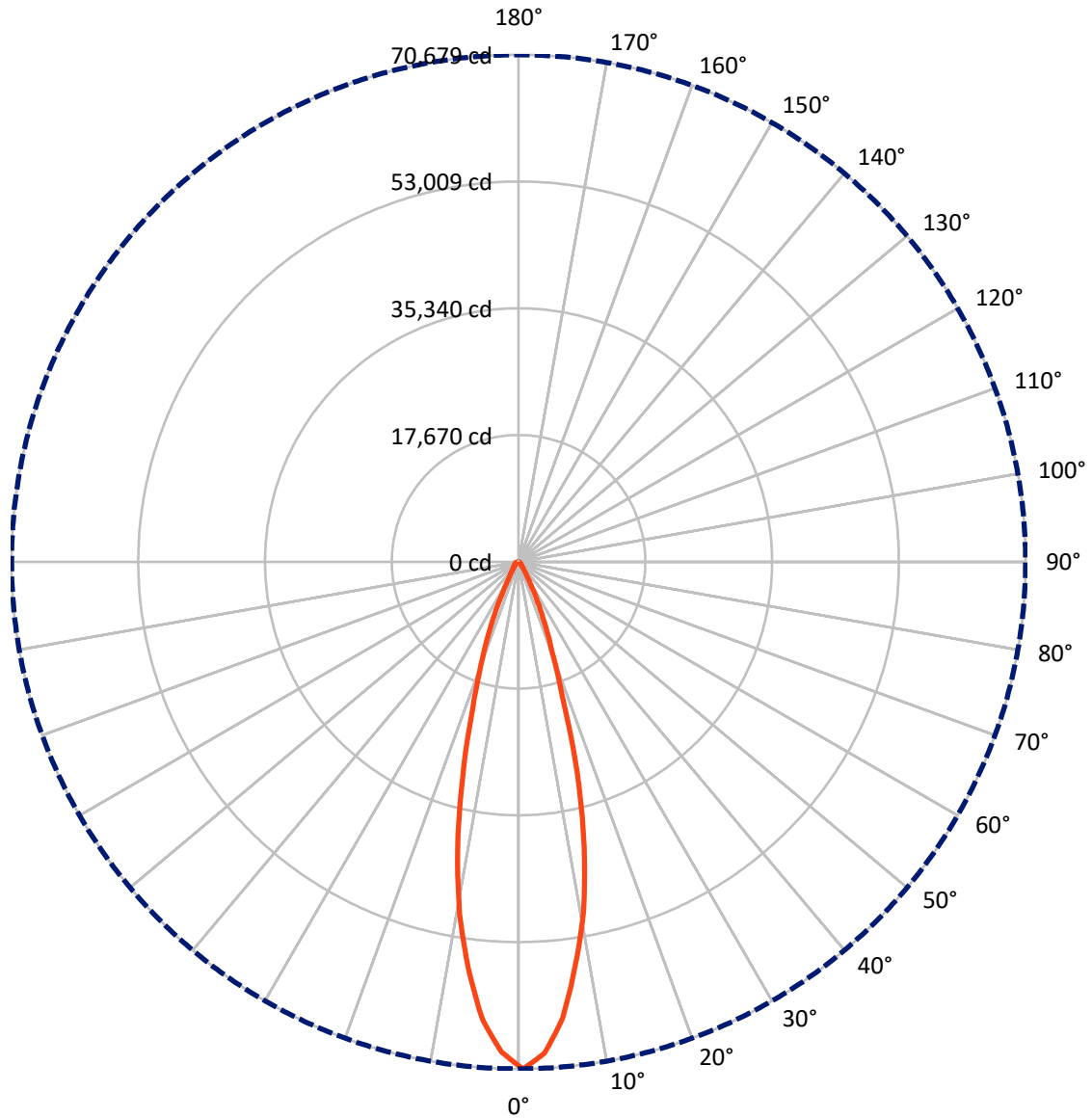
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 176.7 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	10576.4	0.0	10576.4
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	9482.5	0.0	9482.5
	% Fixture	47.3	0.0	47.3
Total	Lumens	20058.9	0.0	20058.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5704.4	28.4
10°-20°	8639.3	43.1
20°-30°	3645.8	18.2
30°-40°	950.9	4.7
40°-50°	480.9	2.4
50°-60°	314.4	1.6
60°-70°	188.3	0.9
70°-80°	99.1	0.5
80°-90°	35.8	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°	20058.9	100.0
0°-180°	20058.9	100.0

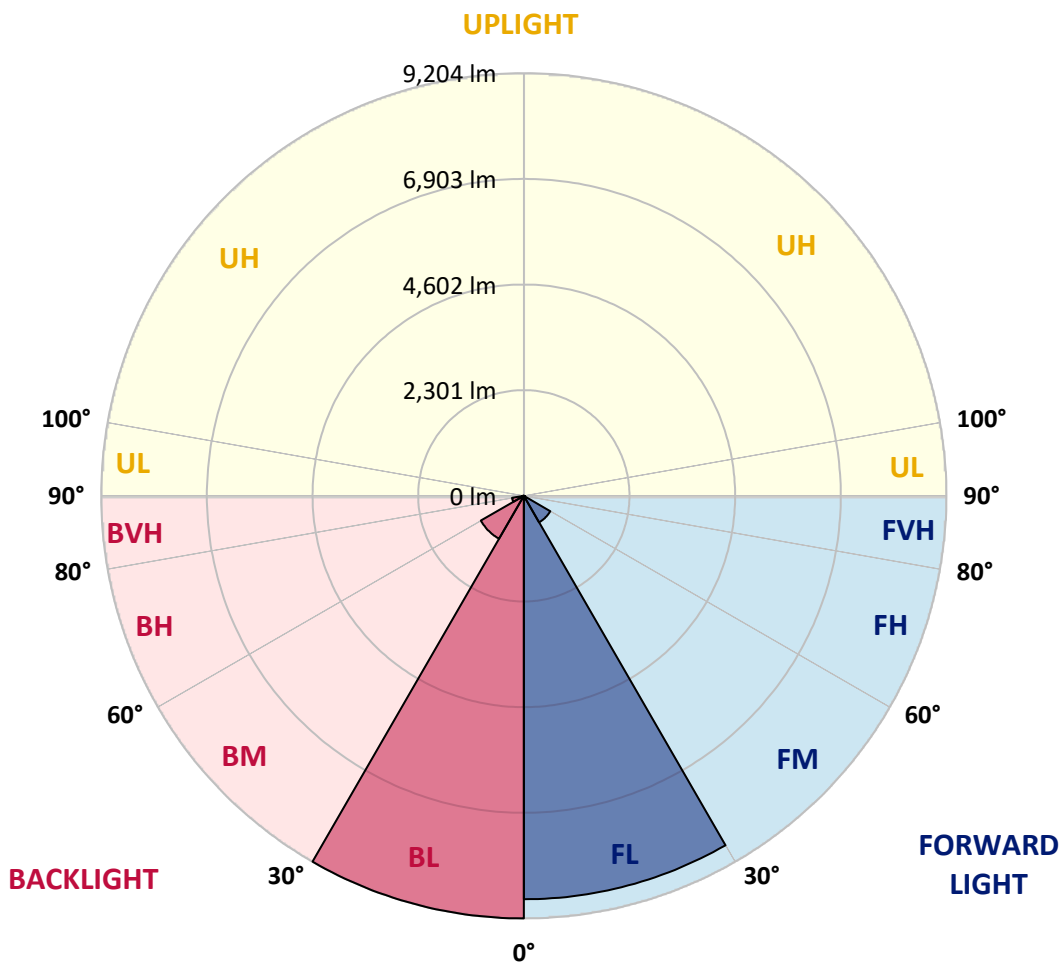


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8785.7	43.8			
FM (30°-60°)	665.4	3.3			
FH (60°-80°)	27.1	0.1			G0/660
FVH (80°-90°)	4.4	0.0			G0/10
BL (0°-30°)	9203.9	45.9	B5		
BM (30°-60°)	1080.8	5.4	B2/2500		
BH (60°-80°)	260.3	1.3	B1/500		G0/660
BVH (80°-90°)	31.4	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°	70679.0	70679.0	70679.0	70679.0	70679.0	70679.0	70679.0	70679.0	70679.0	70679.0
2.5°	68620.1	68658.4	68516.5	68822.8	68584.0	69223.8	68906.2	69401.7	69235.0	69512.1
5°	63934.6	63871.5	63831.0	64306.3	64168.8	64855.9	64416.6	64272.5	64718.5	64637.4
7.5°	56859.0	57025.7	56931.1	57055.0	57124.8	57908.7	58156.5	57962.8	57969.6	58082.2
10°	49605.5	49360.0	49010.8	49242.8	49733.9	50076.3	49938.9	50222.7	50159.6	50427.7
12.5°	40680.5	40874.2	40678.3	40471.0	41329.3	41234.7	41473.4	41628.9	41239.2	42106.4
15°	30642.7	30744.1	30982.9	30967.1	31627.1	31760.0	31728.5	31892.9	31588.8	31733.0
17.5°	19685.9	20028.3	20670.3	21756.0	22977.0	23118.9	23082.9	22947.7	22801.3	22639.1
20°	13223.0	13187.0	13419.0	13736.6	16264.1	16933.1	16912.9	16489.4	15876.6	15759.5
22.5°	9262.9	9330.5	9298.9	9614.3	10136.9	11981.8	11754.3	11324.0	11123.6	10992.9
25°	6093.4	6068.6	6226.3	6320.9	6769.2	6994.5	7791.9	7632.0	7323.3	7357.1
27.5°	3714.6	3746.1	3804.7	3885.8	4203.4	4131.4	4586.4	4647.2	4548.1	4442.2
30°	2279.7	2302.2	2349.5	2408.1	2518.5	2439.6	2565.8	2784.3	2748.2	2673.9
32.5°	1547.6	1549.8	1583.6	1606.1	1592.6	1518.3	1558.8	1766.1	1770.6	1763.8
35°	1112.8	1112.8	1144.3	1162.4	1124.1	1063.2	1070.0	1198.4	1254.7	1266.0
37.5°	768.2	770.4	824.5	878.5	835.7	820.0	792.9	878.5	968.6	982.2
40°	583.4	581.2	608.2	648.8	653.3	624.0	633.0	687.1	779.4	790.7
42.5°	473.1	475.3	488.8	484.3	486.6	524.9	538.4	563.2	648.8	669.0
45°	398.7	401.0	407.7	385.2	376.2	434.8	452.8	466.3	538.4	563.2
47.5°	328.9	333.4	340.1	315.4	310.9	349.2	380.7	394.2	457.3	484.3
50°	236.5	241.0	265.8	252.3	265.8	274.8	317.6	337.9	380.7	416.7
52.5°	171.2	175.7	182.5	184.7	218.5	223.0	254.5	286.1	306.4	346.9
55°	135.2	139.7	135.2	130.7	159.9	184.7	196.0	229.8	245.5	292.8
57.5°	76.6	81.1	87.9	101.4	105.9	141.9	153.2	182.5	196.0	241.0
60°	13.5	15.8	24.8	60.8	74.3	90.1	114.9	139.7	157.7	189.2
62.5°	2.3	2.3	4.5	13.5	42.8	63.1	83.3	99.1	114.9	144.2
65°	0.0	0.0	2.3	4.5	11.3	36.0	45.1	58.6	78.8	103.6
67.5°	0.0	0.0	2.3	4.5	6.8	13.5	20.3	36.0	45.1	69.8
70°	0.0	0.0	2.3	4.5	6.8	9.0	11.3	15.8	27.0	42.8
72.5°	0.0	0.0	2.3	4.5	6.8	9.0	11.3	13.5	13.5	27.0
75°	0.0	0.0	2.3	4.5	6.8	11.3	13.5	13.5	11.3	11.3
77.5°	0.0	0.0	2.3	4.5	9.0	13.5	15.8	13.5	9.0	9.0
80°	0.0	0.0	4.5	6.8	11.3	15.8	20.3	15.8	9.0	4.5
82.5°	0.0	0.0	4.5	9.0	11.3	18.0	24.8	20.3	9.0	4.5
85°	0.0	0.0	2.3	6.8	13.5	18.0	24.8	18.0	9.0	2.3
87.5°	0.0	0.0	2.3	2.3	4.5	6.8	13.5	11.3	4.5	2.3
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°
70679.0	0°	70679.0	70679.0	70679.0	70679.0	70679.0	70679.0	70679.0	70679.0	70679.0
68987.3	2.5°	69383.7	69744.1	69818.5	69719.4	69863.5	69604.5	69406.2	68892.6	68584.0
64612.6	5°	65029.4	64975.3	65351.5	65475.4	65459.6	65261.4	64984.3	64673.4	64371.6
57863.7	7.5°	58224.1	58294.0	58636.4	58854.9	58744.5	58496.7	58305.2	58070.9	57868.2
50524.6	10°	50986.4	50506.6	50932.3	50932.3	51227.4	50526.8	50592.2	50002.0	50029.0
42090.7	12.5°	42234.8	42408.3	42478.1	42678.6	42334.0	41962.3	41507.2	41417.1	41135.6
31458.2	15°	31911.0	32406.6	31980.8	32708.4	32357.0	31969.5	31899.7	31201.4	31422.1
22817.0	17.5°	22704.4	23251.8	23423.0	23839.7	23519.9	23290.1	22999.5	22787.8	22772.0
15973.5	20°	16099.7	16649.3	16775.4	17275.5	17239.5	17167.4	16921.9	16653.8	16363.2
10873.5	22.5°	11038.0	11486.2	11905.2	12578.8	12567.5	12355.8	12331.0	11952.5	11959.3
7345.9	25°	7422.5	7749.1	7848.2	8537.5	8614.1	8591.6	8463.2	8111.8	8244.7
4487.3	27.5°	4491.8	4777.9	5113.5	5356.8	5586.6	5550.5	5422.1	5226.1	5140.5
2696.4	30°	2768.5	2896.9	3020.8	3313.6	3451.1	3523.1	3462.3	3279.9	3293.4
1775.1	32.5°	1813.4	1921.5	2011.6	2196.3	2268.4	2401.3	2376.5	2338.2	2293.2
1277.2	35°	1322.3	1401.1	1462.0	1547.6	1639.9	1752.6	1770.6	1754.8	1736.8
986.7	37.5°	1009.2	1090.3	1160.1	1196.2	1268.2	1356.1	1405.7	1403.4	1389.9
804.2	40°	820.0	880.8	943.9	991.2	1040.7	1106.0	1166.9	1173.6	1173.6
675.8	42.5°	684.8	736.6	799.7	849.2	885.3	946.1	1009.2	1013.7	1009.2
572.2	45°	585.7	630.7	691.6	750.1	779.4	824.5	885.3	898.8	889.8
491.1	47.5°	509.1	549.6	601.5	664.5	696.1	736.6	792.9	808.7	806.4
423.5	50°	437.0	484.3	536.1	587.9	628.5	666.8	720.8	738.9	732.1
360.4	52.5°	385.2	428.0	473.1	529.4	576.7	610.5	653.3	684.8	675.8
304.1	55°	322.1	373.9	421.2	468.6	527.1	563.2	603.7	642.0	633.0
256.8	57.5°	279.3	322.1	376.2	419.0	477.6	520.4	560.9	601.5	599.2
209.5	60°	234.3	279.3	331.1	376.2	430.3	477.6	518.1	563.2	567.7
157.7	62.5°	184.7	238.8	283.8	335.6	389.7	441.5	477.6	522.6	529.4
119.4	65°	139.7	196.0	245.5	295.1	349.2	405.5	437.0	475.3	482.1
87.9	67.5°	103.6	150.9	209.5	254.5	310.9	364.9	394.2	425.7	437.0
54.1	70°	78.8	114.9	175.7	218.5	277.1	319.9	351.4	378.4	387.5
36.0	72.5°	49.6	90.1	141.9	187.0	238.8	277.1	299.6	315.4	328.9
20.3	75°	33.8	69.8	114.9	159.9	198.2	227.5	247.8	261.3	272.6
9.0	77.5°	20.3	54.1	94.6	132.9	157.7	180.2	200.5	209.5	216.3
6.8	80°	11.3	40.5	78.8	108.1	123.9	139.7	155.4	166.7	171.2
4.5	82.5°	6.8	31.5	63.1	83.3	90.1	105.9	121.6	128.4	128.4
2.3	85°	4.5	22.5	42.8	60.8	65.3	76.6	81.1	85.6	90.1
2.3	87.5°	4.5	13.5	27.0	33.8	36.0	40.5	42.8	47.3	51.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
70679.0
68356.5
64033.7
57181.1
49765.4
40878.8
31201.4
22353.0
16237.1
11828.6
8035.2
5066.2
3234.8
2277.4
1730.0
1383.1
1160.1
1004.7
889.8
801.9
727.6
673.5
637.5
601.5
569.9
533.9
488.8
441.5
392.0
326.6
270.3
214.0
166.7
126.1
87.9
49.6
0.0

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