

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: P637281

Luminaire Tested: **IFLD-L-SA7C-722-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637281
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-722-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31494.3 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

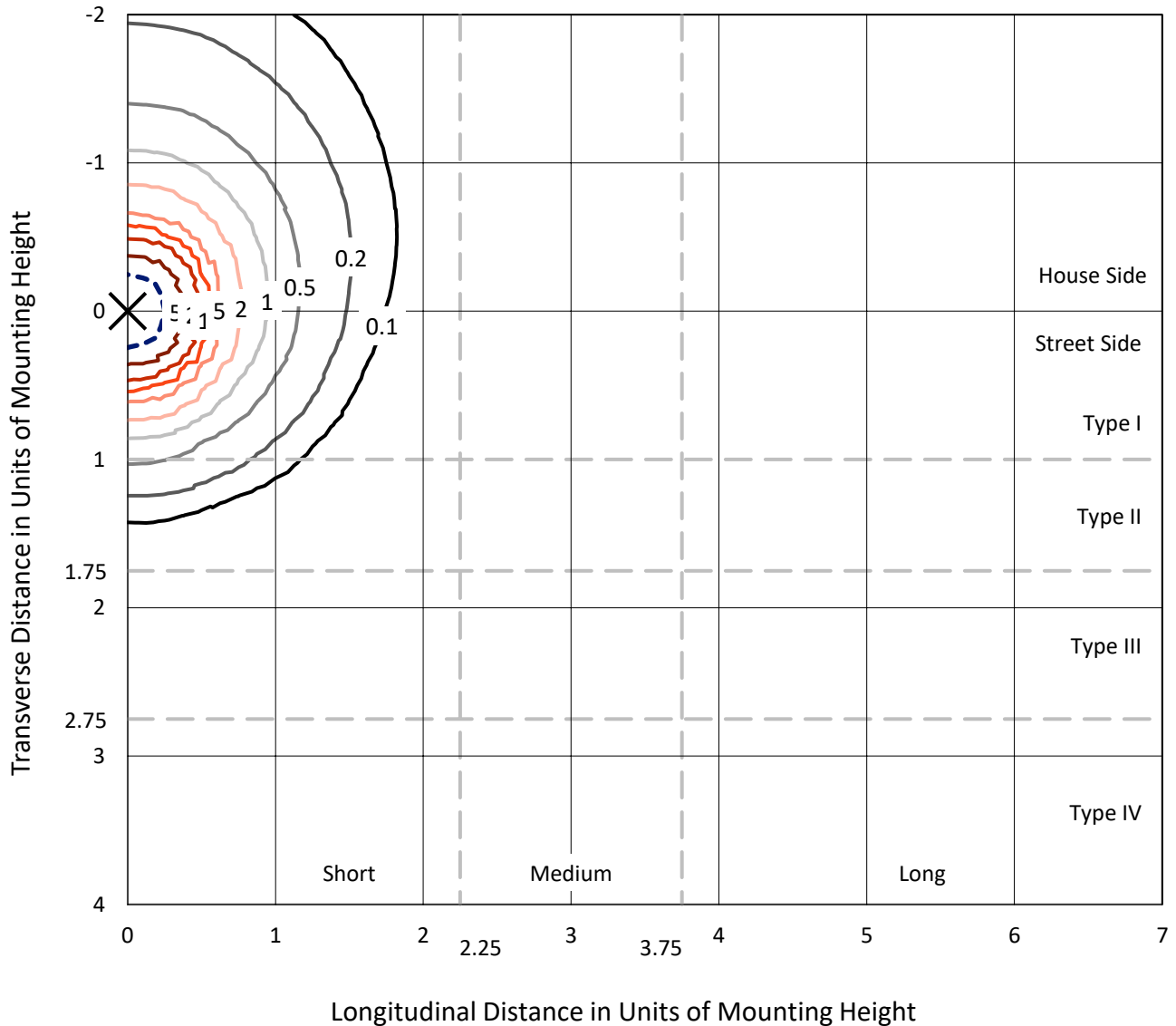
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

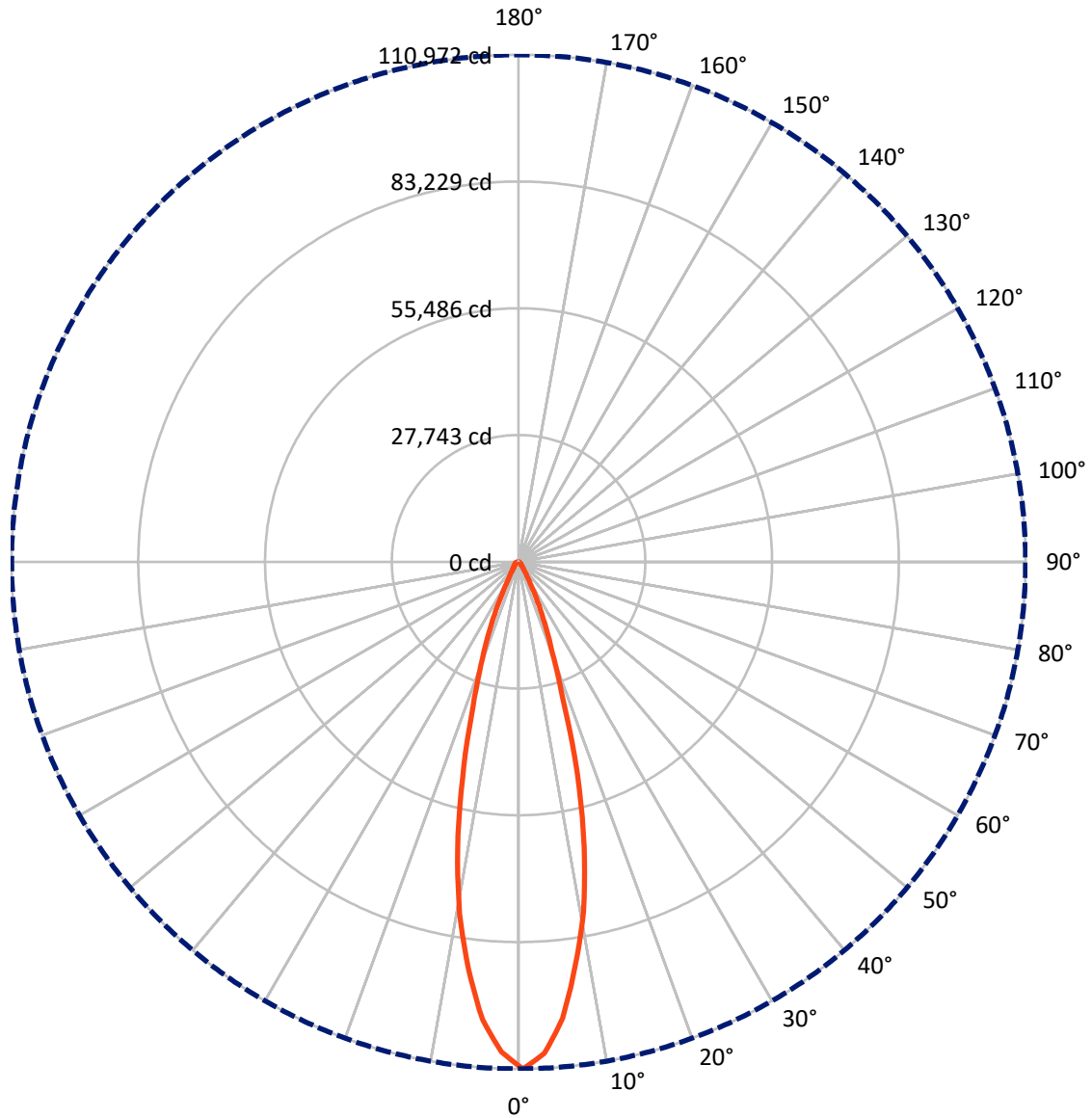
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 277.4 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	16605.9	0.0	16605.9
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	14888.4	0.0	14888.4
	% Fixture	47.3	0.0	47.3
Total	Lumens	31494.3	0.0	31494.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8956.5	28.4
10°-20°	13564.5	43.1
20°-30°	5724.3	18.2
30°-40°	1492.9	4.7
40°-50°	755.1	2.4
50°-60°	493.6	1.6
60°-70°	295.7	0.9
70°-80°	155.6	0.5
80°-90°	56.2	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°	31494.3	100.0
0°-180°	31494.3	100.0

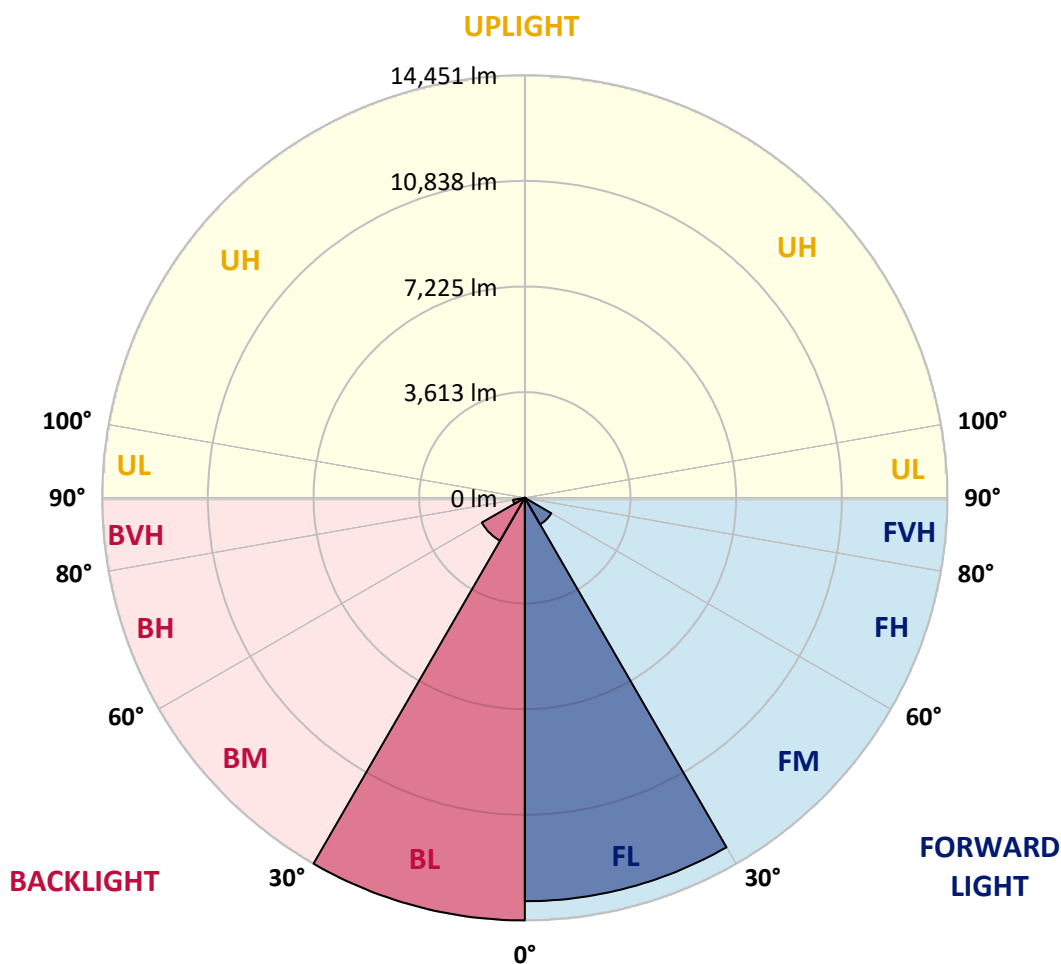


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	13794.3	43.8			
FM (30°-60°)	1044.7	3.3			
FH (60°-80°)	42.6	0.1			G0/660
FVH (80°-90°)	6.8	0.0			G0/10
BL (0°-30°)	14450.9	45.9	B5		
BM (30°-60°)	1696.9	5.4	B2/2500		
BH (60°-80°)	408.7	1.3	B1/500		G0/660
BVH (80°-90°)	49.4	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°	110972.4	110972.4	110972.4	110972.4	110972.4	110972.4	110972.4	110972.4	110972.4	110972.4
2.5°	107739.7	107799.8	107577.0	108058.0	107683.1	108687.6	108188.9	108967.0	108705.3	109140.3
5°	100383.1	100284.0	100220.4	100966.6	100750.9	101829.6	101139.9	100913.6	101613.9	101486.6
7.5°	89273.8	89535.5	89387.0	89581.5	89691.1	90922.0	91311.0	91006.9	91017.5	91194.3
10°	77885.1	77499.6	76951.4	77315.7	78086.7	78624.3	78408.6	78854.2	78755.2	79176.1
12.5°	63872.1	64176.3	63868.6	63543.2	64890.7	64742.2	65117.1	65361.1	64749.2	66110.9
15°	48111.9	48271.0	48645.9	48621.2	49657.5	49866.1	49816.6	50074.8	49597.3	49823.7
17.5°	30908.6	31446.2	32454.2	34159.0	36075.9	36298.8	36242.2	36030.0	35800.1	35545.4
20°	20761.3	20704.8	21069.1	21567.8	25536.1	26586.5	26554.7	25889.8	24927.8	24743.8
22.5°	14543.6	14649.7	14600.1	15095.3	15915.9	18812.5	18455.3	17779.8	17465.0	17259.9
25°	9567.2	9528.3	9775.9	9924.4	10628.3	10981.9	12234.0	11982.9	11498.3	11551.4
27.5°	5832.3	5881.8	5973.8	6101.1	6599.8	6486.6	7201.0	7296.5	7140.9	6974.7
30°	3579.3	3614.7	3688.9	3780.9	3954.2	3830.4	4028.5	4371.6	4315.0	4198.2
32.5°	2429.8	2433.4	2486.4	2521.8	2500.6	2383.8	2447.5	2772.9	2780.0	2769.4
35°	1747.2	1747.2	1796.7	1825.0	1764.9	1669.4	1680.0	1881.6	1970.0	1987.7
37.5°	1206.1	1209.6	1294.5	1379.4	1312.2	1287.4	1245.0	1379.4	1520.8	1542.1
40°	916.0	912.5	955.0	1018.6	1025.7	979.7	993.9	1078.7	1223.8	1241.4
42.5°	742.7	746.3	767.5	760.4	764.0	824.1	845.3	884.2	1018.6	1050.4
45°	626.0	629.6	640.2	604.8	590.7	682.6	710.9	732.1	845.3	884.2
47.5°	516.4	523.5	534.1	495.2	488.1	548.2	597.7	618.9	718.0	760.4
50°	371.4	378.4	417.3	396.1	417.3	431.5	498.7	530.5	597.7	654.3
52.5°	268.8	275.9	286.5	290.0	343.1	350.1	399.7	449.2	481.0	544.7
55°	212.2	219.3	212.2	205.1	251.1	290.0	307.7	360.8	385.5	459.8
57.5°	120.3	127.3	137.9	159.2	166.2	222.8	240.5	286.5	307.7	378.4
60°	21.2	24.8	38.9	95.5	116.7	141.5	180.4	219.3	247.6	297.1
62.5°	3.5	3.5	7.1	21.2	67.2	99.0	130.9	155.6	180.4	226.4
65°	0.0	0.0	3.5	7.1	17.7	56.6	70.7	92.0	123.8	162.7
67.5°	0.0	0.0	3.5	7.1	10.6	21.2	31.8	56.6	70.7	109.6
70°	0.0	0.0	3.5	7.1	10.6	14.1	17.7	24.8	42.4	67.2
72.5°	0.0	0.0	3.5	7.1	10.6	14.1	17.7	21.2	21.2	42.4
75°	0.0	0.0	3.5	7.1	10.6	17.7	21.2	21.2	17.7	17.7
77.5°	0.0	0.0	3.5	7.1	14.1	21.2	24.8	21.2	14.1	14.1
80°	0.0	0.0	7.1	10.6	17.7	24.8	31.8	24.8	14.1	7.1
82.5°	0.0	0.0	7.1	14.1	17.7	28.3	38.9	31.8	14.1	7.1
85°	0.0	0.0	3.5	10.6	21.2	28.3	38.9	28.3	14.1	3.5
87.5°	0.0	0.0	3.5	3.5	7.1	10.6	21.2	17.7	7.1	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°
110972.4	0°	110972.4	110972.4	110972.4	110972.4	110972.4	110972.4	110972.4	110972.4	110972.4
108316.2	2.5°	108938.7	109504.6	109621.3	109465.7	109692.1	109285.3	108974.1	108167.7	107683.1
101447.7	5°	102102.0	102017.1	102607.7	102802.3	102777.5	102466.3	102031.2	101543.1	101069.2
90851.2	7.5°	91417.1	91526.8	92064.4	92407.4	92234.1	91845.1	91544.5	91176.6	90858.3
79328.2	10°	80053.2	79299.9	79968.3	79968.3	80431.7	79331.7	79434.3	78507.6	78550.0
66086.2	12.5°	66312.5	66584.9	66694.5	67009.3	66468.1	65884.6	65170.1	65028.6	64586.5
49392.2	15°	50103.1	50881.2	50212.8	51355.2	50803.4	50195.1	50085.4	48989.0	49335.6
35824.8	17.5°	35648.0	36507.4	36776.2	37430.6	36928.3	36567.6	36111.3	35778.8	35754.1
25079.8	20°	25277.9	26140.9	26339.0	27124.2	27067.6	26954.4	26568.9	26148.0	25691.7
17072.4	22.5°	17330.6	18034.4	18692.3	19749.8	19732.1	19399.7	19360.8	18766.6	18777.2
11533.7	25°	11653.9	12166.8	12322.4	13404.7	13524.9	13489.6	13288.0	12736.2	12944.9
7045.4	27.5°	7052.5	7501.7	8028.7	8410.6	8771.4	8714.8	8513.2	8205.5	8071.1
4233.6	30°	4346.8	4548.4	4742.9	5202.7	5418.5	5531.6	5436.1	5149.7	5170.9
2787.0	32.5°	2847.2	3016.9	3158.4	3448.4	3561.6	3770.3	3731.4	3671.3	3600.5
2005.4	35°	2076.1	2199.9	2295.4	2429.8	2574.8	2751.7	2780.0	2755.2	2726.9
1549.1	37.5°	1584.5	1711.8	1821.5	1878.1	1991.3	2129.2	2207.0	2203.5	2182.2
1262.7	40°	1287.4	1382.9	1481.9	1556.2	1634.0	1736.6	1832.1	1842.7	1842.7
1061.1	42.5°	1075.2	1156.6	1255.6	1333.4	1390.0	1485.5	1584.5	1591.6	1584.5
898.4	45°	919.6	990.3	1085.8	1177.8	1223.8	1294.5	1390.0	1411.2	1397.1
771.0	47.5°	799.3	863.0	944.3	1043.4	1092.9	1156.6	1245.0	1269.7	1266.2
664.9	50°	686.2	760.4	841.8	923.1	986.8	1046.9	1131.8	1160.1	1149.5
565.9	52.5°	604.8	672.0	742.7	831.2	905.4	958.5	1025.7	1075.2	1061.1
477.5	55°	505.8	587.1	661.4	735.7	827.6	884.2	947.9	1008.0	993.9
403.2	57.5°	438.6	505.8	590.7	657.9	749.8	817.0	880.7	944.3	940.8
328.9	60°	367.8	438.6	519.9	590.7	675.5	749.8	813.5	884.2	891.3
247.6	62.5°	290.0	374.9	445.6	527.0	611.9	693.2	749.8	820.6	831.2
187.5	65°	219.3	307.7	385.5	463.3	548.2	636.6	686.2	746.3	756.9
137.9	67.5°	162.7	237.0	328.9	399.7	488.1	573.0	618.9	668.5	686.2
84.9	70°	123.8	180.4	275.9	343.1	435.0	502.2	551.7	594.2	608.3
56.6	72.5°	77.8	141.5	222.8	293.6	374.9	435.0	470.4	495.2	516.4
31.8	75°	53.1	109.6	180.4	251.1	311.2	357.2	389.1	410.3	428.0
14.1	77.5°	31.8	84.9	148.5	208.7	247.6	282.9	314.8	328.9	339.5
10.6	80°	17.7	63.7	123.8	169.8	194.5	219.3	244.0	261.7	268.8
7.1	82.5°	10.6	49.5	99.0	130.9	141.5	166.2	191.0	201.6	201.6
3.5	85°	7.1	35.4	67.2	95.5	102.6	120.3	127.3	134.4	141.5
3.5	87.5°	7.1	21.2	42.4	53.1	56.6	63.7	67.2	74.3	81.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
110972.4
107325.9
100538.7
89779.6
78136.2
64183.3
48989.0
35096.2
25493.7
18572.0
12616.0
7954.4
5078.9
3575.8
2716.3
2171.6
1821.5
1577.4
1397.1
1259.1
1142.4
1057.5
1000.9
944.3
894.8
838.2
767.5
693.2
615.4
512.8
424.4
336.0
261.7
198.1
137.9
77.8
0.0

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