

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: P637338

Luminaire Tested: **IFLD-L-SA7B-730-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637338
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-730-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31276.6 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

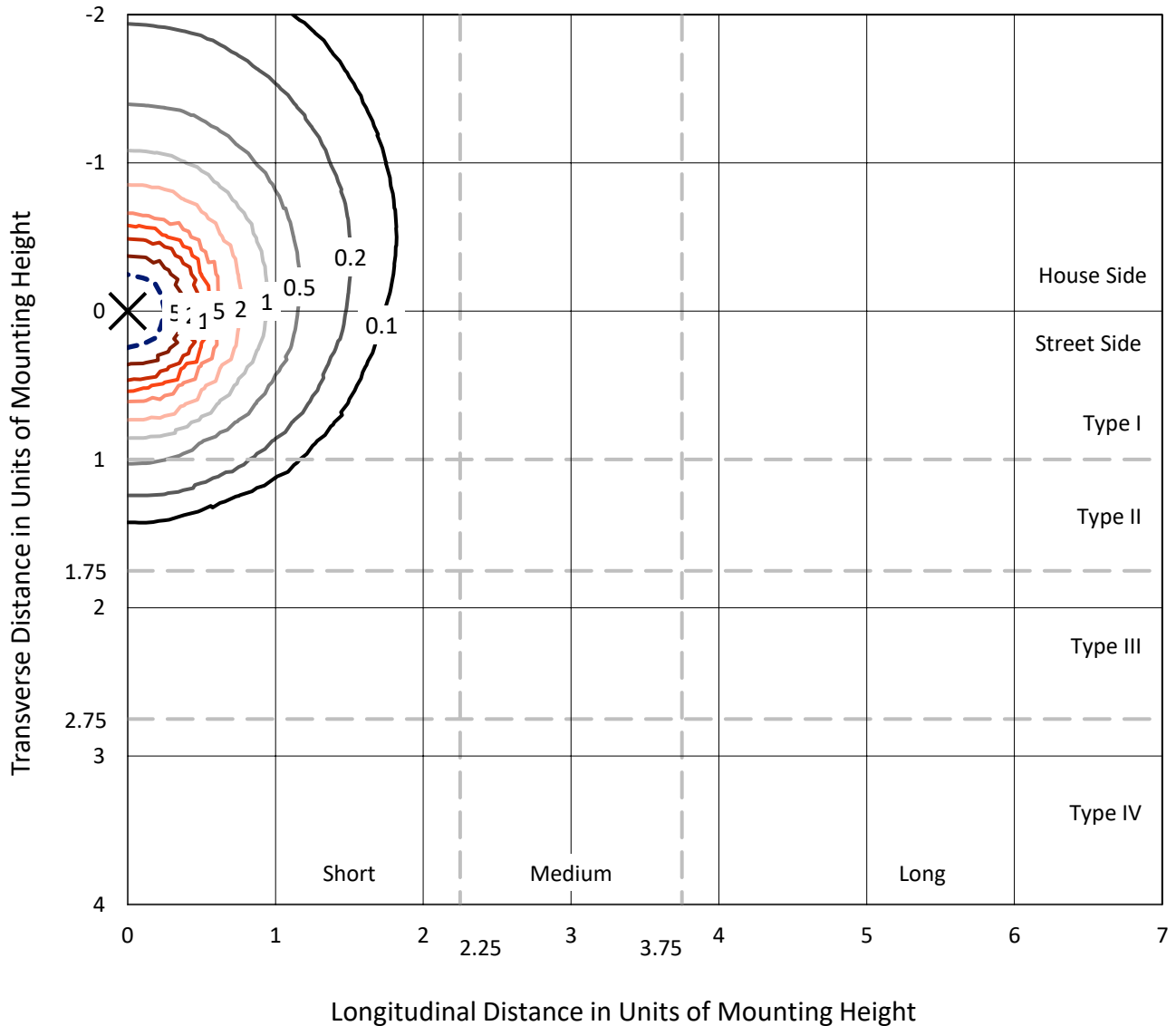
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

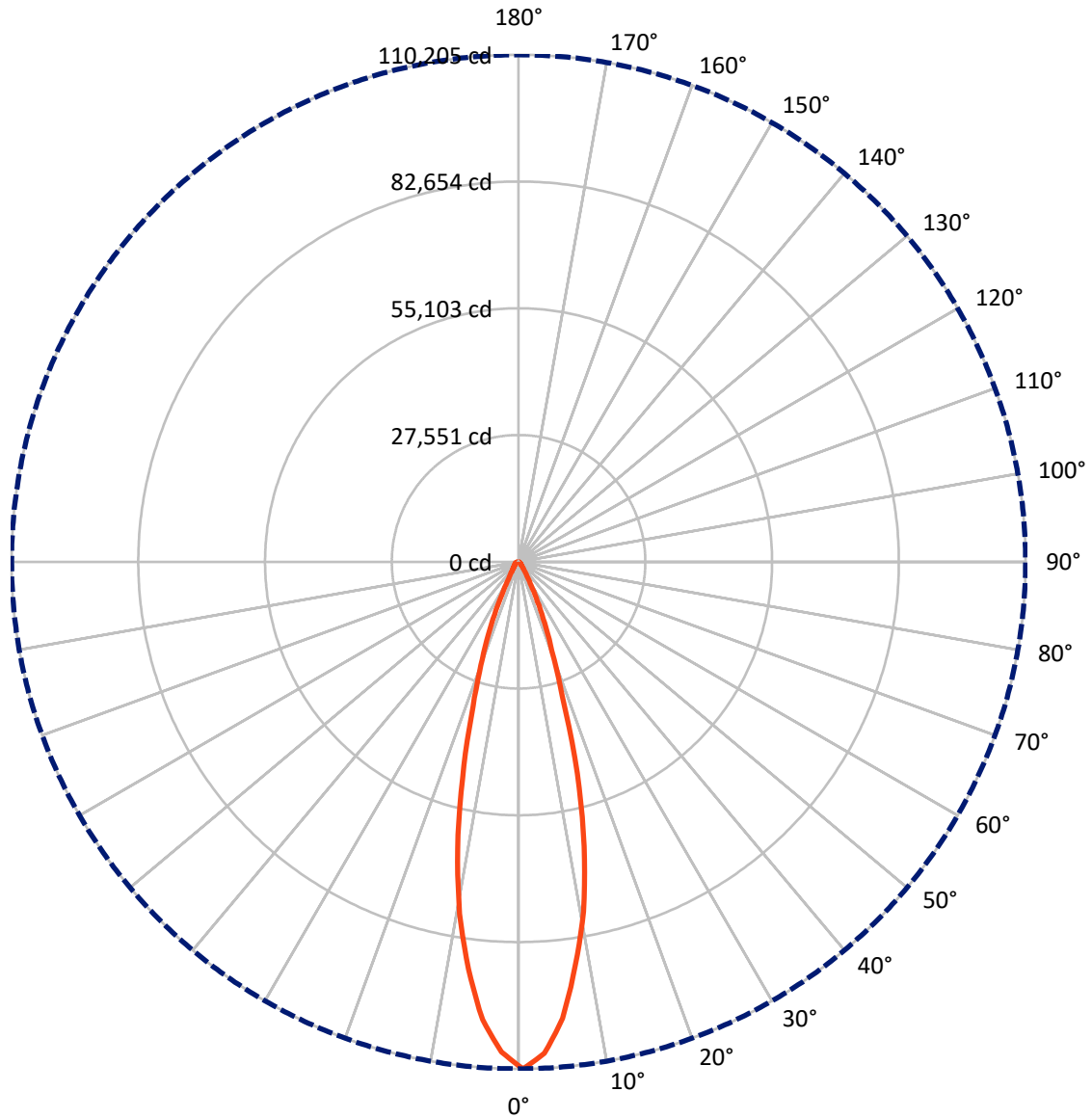
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 275.5 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	16491.1	0.0	16491.1
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	14785.4	0.0	14785.4
	% Fixture	47.3	0.0	47.3
Total	Lumens	31276.6	0.0	31276.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8894.5	28.4
10°-20°	13470.7	43.1
20°-30°	5684.7	18.2
30°-40°	1482.6	4.7
40°-50°	749.9	2.4
50°-60°	490.2	1.6
60°-70°	293.7	0.9
70°-80°	154.5	0.5
80°-90°	55.8	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°	31276.6	100.0
0°-180°	31276.6	100.0

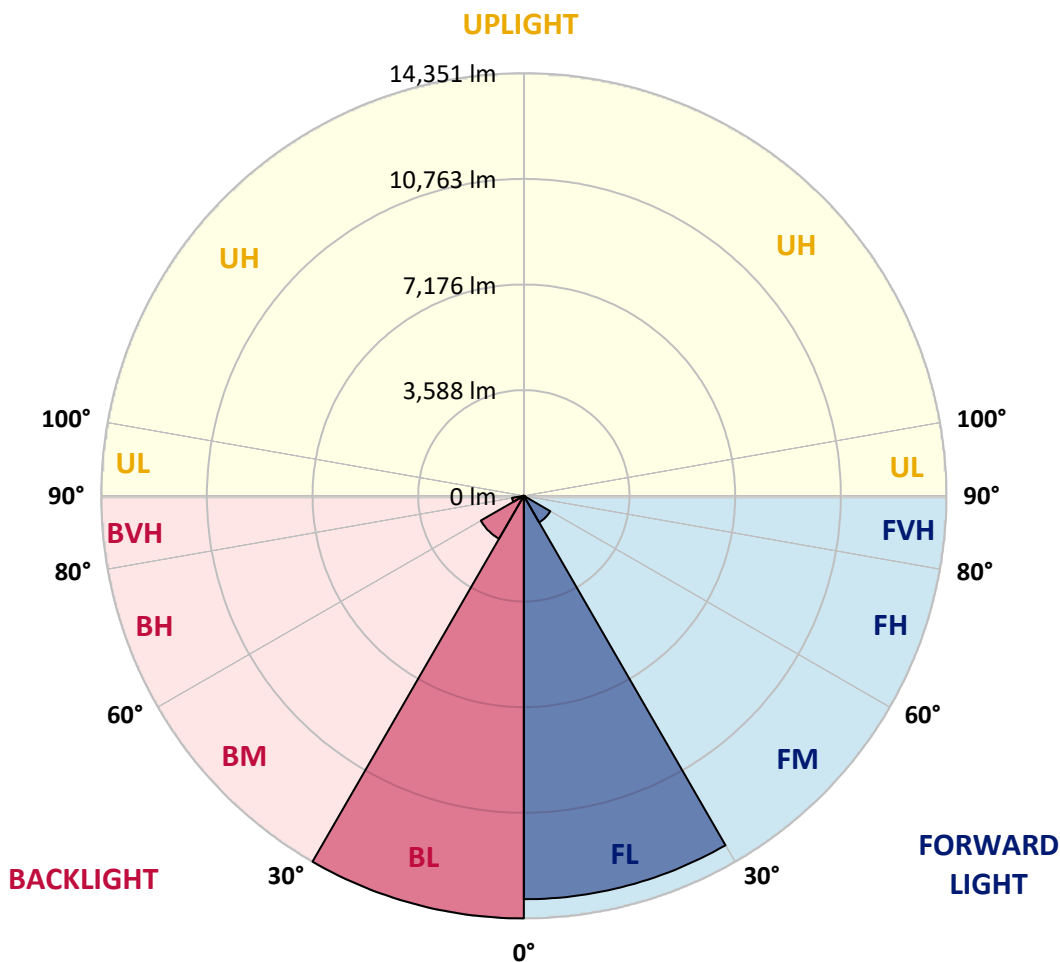


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	13698.9	43.8			
FM (30°-60°)	1037.5	3.3			
FH (60°-80°)	42.3	0.1			G0/660
FVH (80°-90°)	6.8	0.0			G0/10
BL (0°-30°)	14351.0	45.9	B5		
BM (30°-60°)	1685.2	5.4	B2/2500		
BH (60°-80°)	405.9	1.3	B1/500		G0/660
BVH (80°-90°)	49.0	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°	110205.2	110205.2	110205.2	110205.2	110205.2	110205.2	110205.2	110205.2	110205.2	110205.2
2.5°	106994.9	107054.6	106833.3	107311.0	106938.7	107936.2	107441.0	108213.7	107953.8	108385.8
5°	99689.1	99590.7	99527.5	100268.6	100054.4	101125.7	100440.7	100215.9	100911.4	100784.9
7.5°	88656.6	88916.5	88769.0	88962.2	89071.1	90293.4	90679.8	90377.7	90388.2	90563.9
10°	77346.7	76963.8	76419.4	76781.2	77546.9	78080.8	77866.5	78309.1	78210.7	78628.7
12.5°	63430.5	63732.6	63427.0	63103.9	64442.1	64294.6	64666.9	64909.2	64301.6	65653.9
15°	47779.2	47937.3	48309.6	48285.0	49314.2	49521.4	49472.2	49728.6	49254.5	49479.2
17.5°	30694.9	31228.8	32229.8	33922.8	35826.5	36047.8	35991.6	35780.9	35552.6	35299.7
20°	20617.8	20561.6	20923.4	21418.6	25359.6	26402.7	26371.1	25710.8	24755.4	24572.8
22.5°	14443.0	14548.4	14499.2	14990.9	15805.8	18682.5	18327.7	17656.9	17344.3	17140.5
25°	9501.1	9462.4	9708.3	9855.8	10554.8	10906.0	12149.4	11900.0	11418.8	11471.5
27.5°	5792.0	5841.1	5932.5	6058.9	6554.1	6441.8	7151.3	7246.1	7091.5	6926.5
30°	3554.6	3589.7	3663.4	3754.8	3926.9	3803.9	4000.6	4341.3	4285.1	4169.2
32.5°	2413.0	2416.5	2469.2	2504.3	2483.3	2367.4	2430.6	2753.7	2760.8	2750.2
35°	1735.1	1735.1	1784.3	1812.4	1752.7	1657.9	1668.4	1868.6	1956.4	1974.0
37.5°	1197.7	1201.2	1285.5	1369.8	1303.1	1278.5	1236.4	1369.8	1510.3	1531.4
40°	909.7	906.2	948.3	1011.6	1018.6	972.9	987.0	1071.3	1215.3	1232.9
42.5°	737.6	741.1	762.2	755.2	758.7	818.4	839.5	878.1	1011.6	1043.2
45°	621.7	625.2	635.7	600.6	586.6	677.9	706.0	727.1	839.5	878.1
47.5°	512.8	519.8	530.4	491.7	484.7	544.4	593.6	614.7	713.0	755.2
50°	368.8	375.8	414.5	393.4	414.5	428.5	495.2	526.9	593.6	649.8
52.5°	266.9	274.0	284.5	288.0	340.7	347.7	396.9	446.1	477.7	540.9
55°	210.7	217.8	210.7	203.7	249.4	288.0	305.6	358.3	382.9	456.6
57.5°	119.4	126.4	137.0	158.1	165.1	221.3	238.8	284.5	305.6	375.8
60°	21.1	24.6	38.6	94.8	115.9	140.5	179.1	217.8	245.9	295.0
62.5°	3.5	3.5	7.0	21.1	66.7	98.3	130.0	154.5	179.1	224.8
65°	0.0	0.0	3.5	7.0	17.6	56.2	70.2	91.3	122.9	161.6
67.5°	0.0	0.0	3.5	7.0	10.5	21.1	31.6	56.2	70.2	108.9
70°	0.0	0.0	3.5	7.0	10.5	14.0	17.6	24.6	42.1	66.7
72.5°	0.0	0.0	3.5	7.0	10.5	14.0	17.6	21.1	21.1	42.1
75°	0.0	0.0	3.5	7.0	10.5	17.6	21.1	21.1	17.6	17.6
77.5°	0.0	0.0	3.5	7.0	14.0	21.1	24.6	21.1	14.0	14.0
80°	0.0	0.0	7.0	10.5	17.6	24.6	31.6	24.6	14.0	7.0
82.5°	0.0	0.0	7.0	14.0	17.6	28.1	38.6	31.6	14.0	7.0
85°	0.0	0.0	3.5	10.5	21.1	28.1	38.6	28.1	14.0	3.5
87.5°	0.0	0.0	3.5	3.5	7.0	10.5	21.1	17.6	7.0	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°
110205.2	0°	110205.2	110205.2	110205.2	110205.2	110205.2	110205.2	110205.2	110205.2	110205.2
107567.4	2.5°	108185.6	108747.6	108863.5	108708.9	108933.7	108529.8	108220.7	107419.9	106938.7
100746.3	5°	101396.1	101311.8	101898.4	102091.6	102067.0	101757.9	101325.9	100841.1	100370.5
90223.1	7.5°	90785.1	90894.0	91427.9	91768.6	91596.5	91210.1	90911.6	90546.3	90230.2
78779.7	10°	79499.8	78751.6	79415.5	79415.5	79875.6	78783.2	78885.1	77964.9	78007.0
65629.3	12.5°	65854.1	66124.5	66233.4	66546.0	66008.6	65429.1	64719.6	64579.1	64140.0
49050.7	15°	49756.7	50529.5	49865.6	51000.1	50452.2	49848.1	49739.2	48650.3	48994.5
35577.2	17.5°	35401.5	36255.0	36522.0	37171.8	36673.0	36314.8	35861.7	35531.5	35506.9
24906.5	20°	25103.2	25960.2	26156.9	26936.6	26880.4	26768.0	26385.2	25967.2	25514.1
16954.4	22.5°	17210.8	17909.8	18563.1	19613.3	19595.7	19265.5	19226.9	18636.8	18647.4
11454.0	25°	11573.4	12082.7	12237.2	13312.0	13431.4	13396.3	13196.1	12648.2	12855.4
6996.7	27.5°	7003.7	7449.8	7973.2	8352.5	8710.8	8654.6	8454.4	8148.8	8015.3
4204.3	30°	4316.7	4517.0	4710.1	5166.7	5381.0	5493.4	5398.6	5114.1	5135.1
2767.8	32.5°	2827.5	2996.1	3136.6	3424.6	3537.0	3744.2	3705.6	3645.9	3575.6
1991.5	35°	2061.8	2184.7	2279.6	2413.0	2557.0	2732.7	2760.8	2736.2	2708.1
1538.4	37.5°	1573.6	1700.0	1808.9	1865.1	1977.5	2114.5	2191.7	2188.2	2167.2
1253.9	40°	1278.5	1373.4	1471.7	1545.5	1622.7	1724.6	1819.4	1830.0	1830.0
1053.7	42.5°	1067.8	1148.6	1246.9	1324.2	1380.4	1475.2	1573.6	1580.6	1573.6
892.2	45°	913.2	983.5	1078.3	1169.6	1215.3	1285.5	1380.4	1401.4	1387.4
765.7	47.5°	793.8	857.0	937.8	1036.2	1085.3	1148.6	1236.4	1261.0	1257.4
660.3	50°	681.4	755.2	836.0	916.7	980.0	1039.7	1124.0	1152.1	1141.5
562.0	52.5°	600.6	667.4	737.6	825.4	899.2	951.9	1018.6	1067.8	1053.7
474.2	55°	502.3	583.1	656.8	730.6	821.9	878.1	941.3	1001.0	987.0
400.4	57.5°	435.5	502.3	586.6	653.3	744.6	811.4	874.6	937.8	934.3
326.7	60°	365.3	435.5	516.3	586.6	670.9	744.6	807.9	878.1	885.1
245.9	62.5°	288.0	372.3	442.6	523.3	607.6	688.4	744.6	814.9	825.4
186.2	65°	217.8	305.6	382.9	460.1	544.4	632.2	681.4	741.1	751.7
137.0	67.5°	161.6	235.3	326.7	396.9	484.7	569.0	614.7	663.8	681.4
84.3	70°	122.9	179.1	274.0	340.7	432.0	498.8	547.9	590.1	604.1
56.2	72.5°	77.3	140.5	221.3	291.5	372.3	432.0	467.1	491.7	512.8
31.6	75°	52.7	108.9	179.1	249.4	309.1	354.8	386.4	407.4	425.0
14.0	77.5°	31.6	84.3	147.5	207.2	245.9	281.0	312.6	326.7	337.2
10.5	80°	17.6	63.2	122.9	168.6	193.2	217.8	242.4	259.9	266.9
7.0	82.5°	10.5	49.2	98.3	130.0	140.5	165.1	189.7	200.2	200.2
3.5	85°	7.0	35.1	66.7	94.8	101.9	119.4	126.4	133.5	140.5
3.5	87.5°	7.0	21.1	42.1	52.7	56.2	63.2	66.7	73.8	80.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
110205.2
106583.9
99843.6
89158.9
77596.1
63739.6
48650.3
34853.6
25317.4
18443.6
12528.7
7899.4
5043.8
3551.0
2697.5
2156.6
1808.9
1566.5
1387.4
1250.4
1134.5
1050.2
994.0
937.8
888.6
832.4
762.2
688.4
611.2
509.3
421.5
333.7
259.9
196.7
137.0
77.3
0.0

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