

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: P637400

Luminaire Tested: **IFLD-L-SA8A-740-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637400
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-740-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33039.6 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

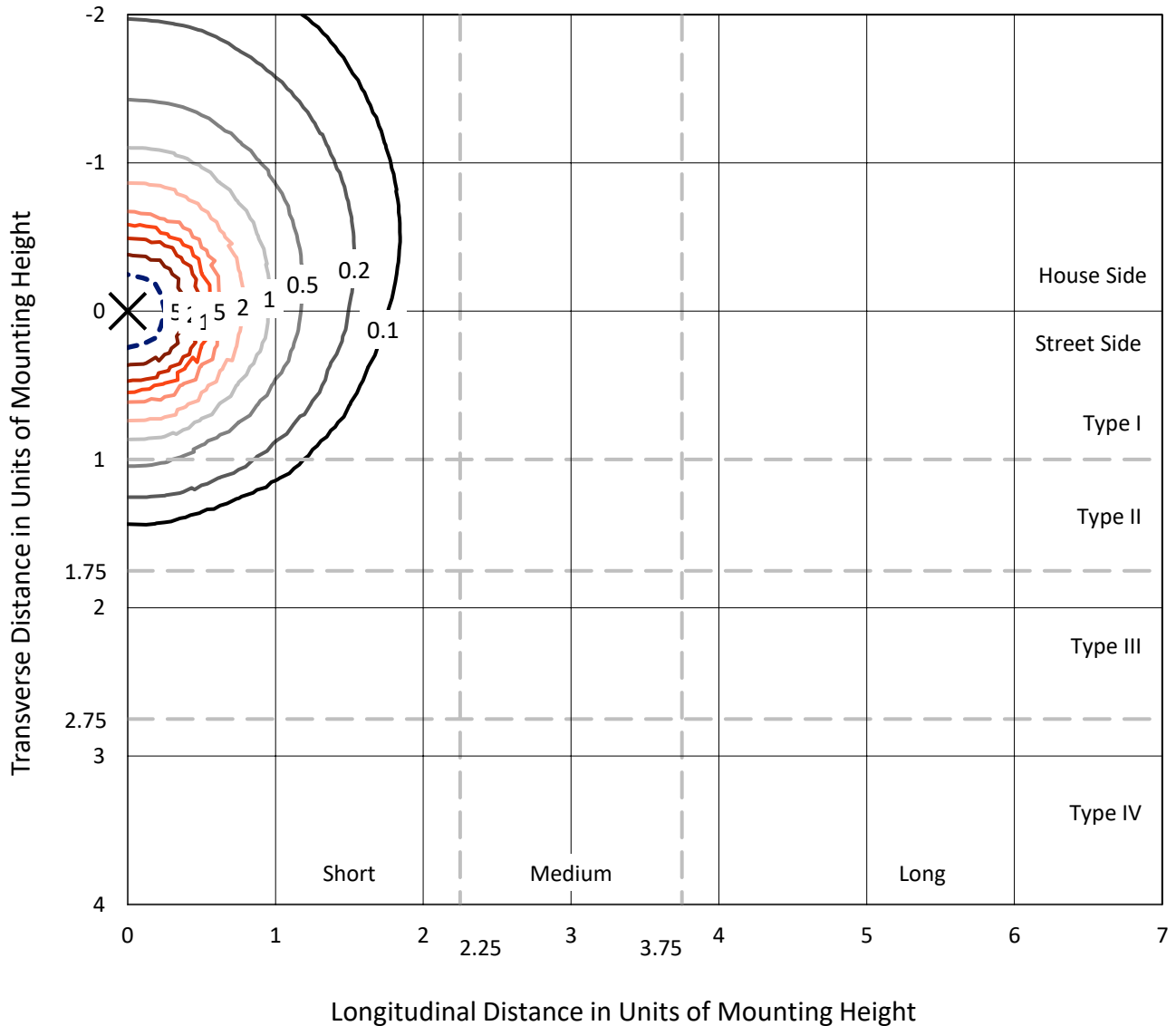
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

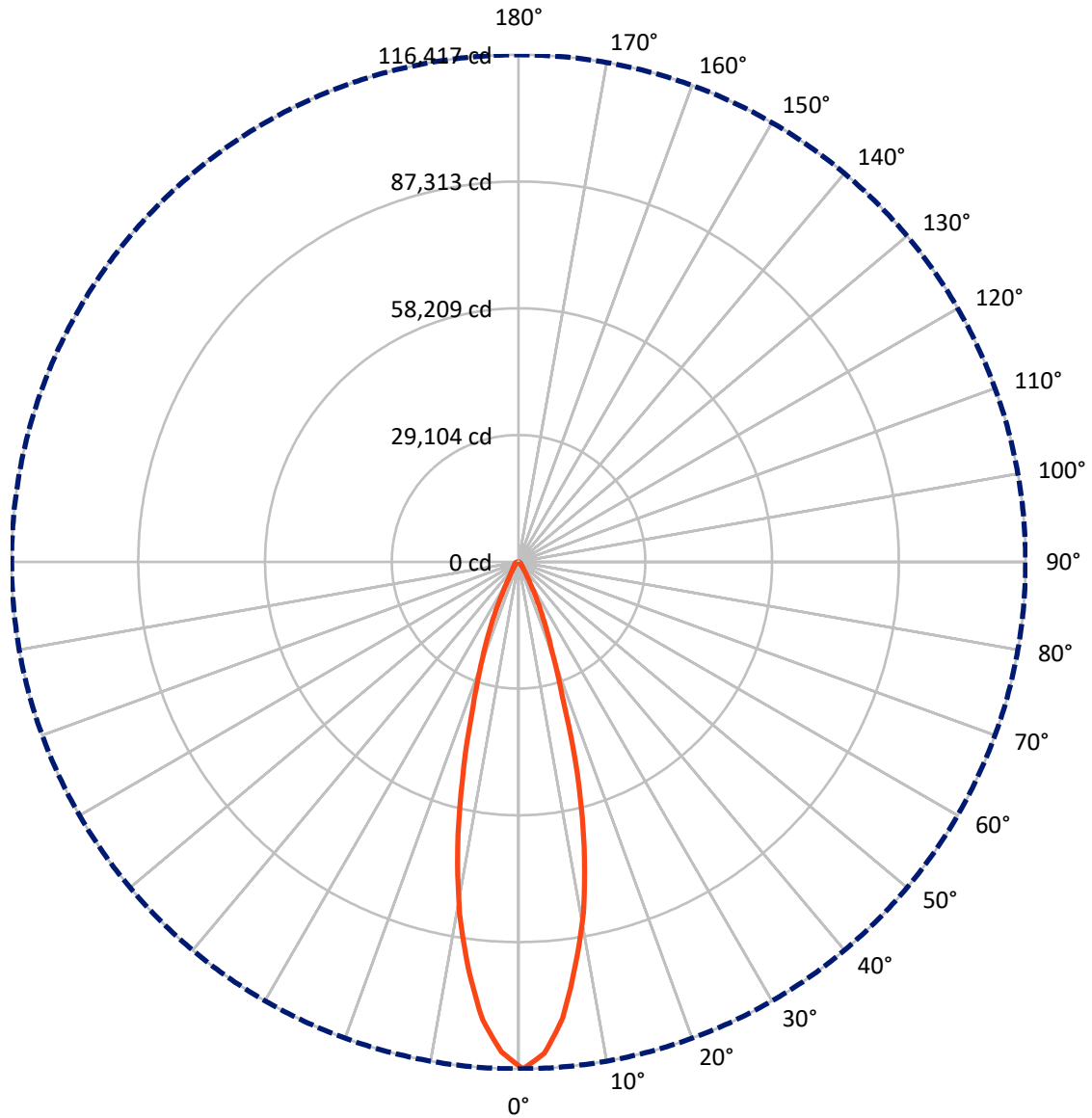
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 291 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	17420.7	0.0	17420.7
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	15618.9	0.0	15618.9
	% Fixture	47.3	0.0	47.3
Total	Lumens	33039.6	0.0	33039.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9395.9	28.4
10°-20°	14230.0	43.1
20°-30°	6005.1	18.2
30°-40°	1566.2	4.7
40°-50°	792.2	2.4
50°-60°	517.8	1.6
60°-70°	310.2	0.9
70°-80°	163.2	0.5
80°-90°	58.9	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°	33039.6	100.0
0°-180°	33039.6	100.0

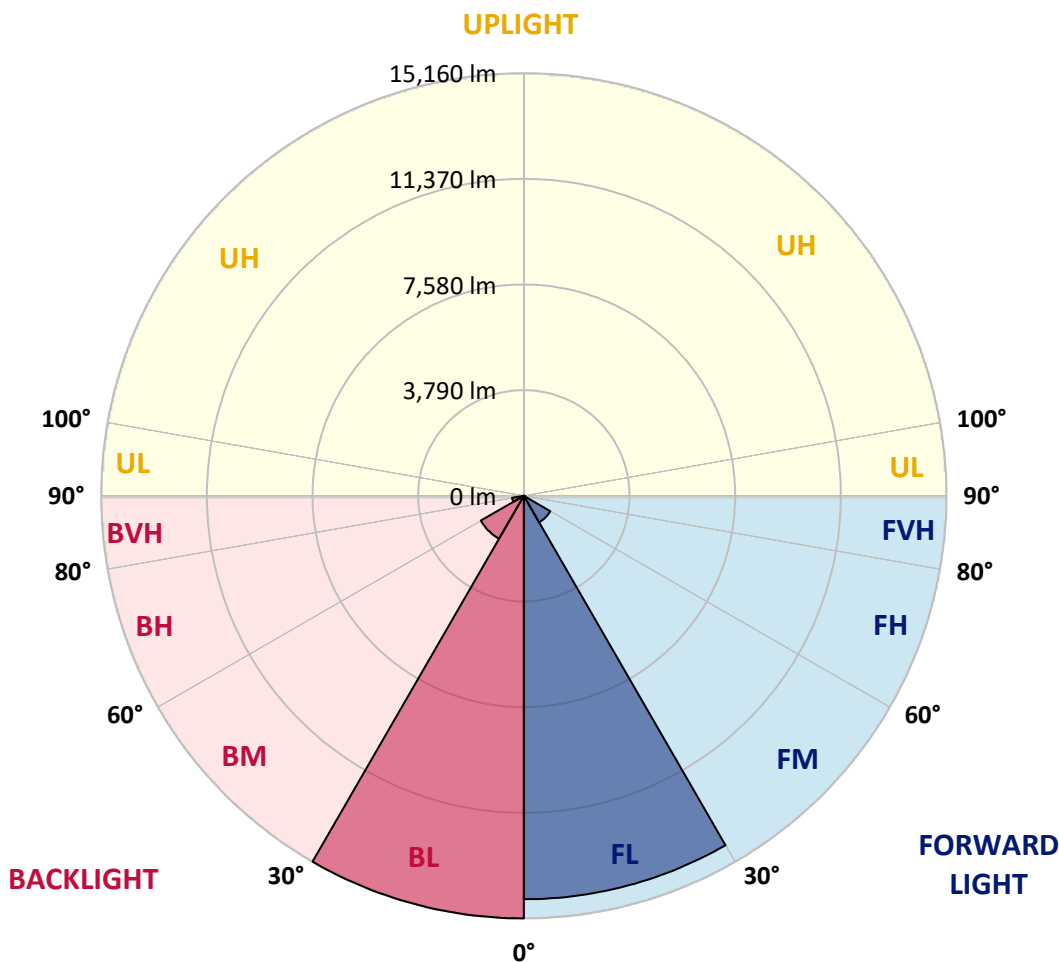


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	14471.1	43.8			
FM (30°-60°)	1095.9	3.3			
FH (60°-80°)	44.7	0.1			G0/660
FVH (80°-90°)	7.2	0.0			G0/10
BL (0°-30°)	15159.9	45.9	B5		
BM (30°-60°)	1780.2	5.4	B2/2500		
BH (60°-80°)	428.7	1.3	B1/500		G0/660
BVH (80°-90°)	51.8	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°	116417.1	116417.1	116417.1	116417.1	116417.1	116417.1	116417.1	116417.1	116417.1	116417.1
2.5°	113025.8	113088.9	112855.1	113359.8	112966.5	114020.2	113497.0	114313.3	114038.8	114495.1
5°	105308.2	105204.3	105137.5	105920.4	105694.1	106825.8	106102.2	105864.8	106599.4	106465.9
7.5°	93653.9	93928.5	93772.6	93976.7	94091.7	95382.9	95791.1	95472.0	95483.1	95668.6
10°	81706.4	81302.0	80726.9	81109.1	81917.9	82481.9	82255.6	82723.1	82619.2	83060.7
12.5°	67005.9	67325.0	67002.2	66660.8	68074.5	67918.6	68311.9	68568.0	67926.1	69354.6
15°	50472.4	50639.4	51032.7	51006.7	52093.8	52312.8	52260.8	52531.7	52030.8	52268.2
17.5°	32425.1	32989.1	34046.5	35834.9	37846.0	38079.7	38020.3	37797.7	37556.5	37289.4
20°	21780.0	21720.6	22102.8	22625.9	26789.0	27891.0	27857.6	27160.0	26150.8	25957.9
22.5°	15257.1	15368.4	15316.5	15835.9	16696.7	19735.6	19360.8	18652.1	18321.9	18106.7
25°	10036.6	9995.8	10255.5	10411.3	11149.7	11520.8	12834.2	12570.8	12062.5	12118.1
27.5°	6118.4	6170.4	6266.8	6400.4	6923.6	6804.9	7554.3	7654.5	7491.3	7316.9
30°	3754.9	3792.0	3869.9	3966.4	4148.2	4018.3	4226.1	4586.0	4526.7	4404.2
32.5°	2549.0	2552.7	2608.4	2645.5	2623.2	2500.8	2567.6	2908.9	2916.4	2905.2
35°	1832.9	1832.9	1884.9	1914.6	1851.5	1751.3	1762.4	1973.9	2066.7	2085.2
37.5°	1265.2	1269.0	1358.0	1447.1	1376.6	1350.6	1306.1	1447.1	1595.5	1617.7
40°	961.0	957.3	1001.8	1068.6	1076.0	1027.8	1042.6	1131.7	1283.8	1302.3
42.5°	779.2	782.9	805.2	797.7	801.4	864.5	886.8	927.6	1068.6	1102.0
45°	656.7	660.4	671.6	634.5	619.6	716.1	745.8	768.1	886.8	927.6
47.5°	541.7	549.1	560.3	519.5	512.0	575.1	627.1	649.3	753.2	797.7
50°	389.6	397.0	437.8	415.6	437.8	452.7	523.2	556.6	627.1	686.4
52.5°	282.0	289.4	300.5	304.3	359.9	367.3	419.3	471.2	504.6	571.4
55°	222.6	230.0	222.6	215.2	263.4	304.3	322.8	378.5	404.4	482.4
57.5°	126.2	133.6	144.7	167.0	174.4	233.8	252.3	300.5	322.8	397.0
60°	22.3	26.0	40.8	100.2	122.4	148.4	189.2	230.0	259.7	311.7
62.5°	3.7	3.7	7.4	22.3	70.5	103.9	137.3	163.3	189.2	237.5
65°	0.0	0.0	3.7	7.4	18.6	59.4	74.2	96.5	129.9	170.7
67.5°	0.0	0.0	3.7	7.4	11.1	22.3	33.4	59.4	74.2	115.0
70°	0.0	0.0	3.7	7.4	11.1	14.8	18.6	26.0	44.5	70.5
72.5°	0.0	0.0	3.7	7.4	11.1	14.8	18.6	22.3	22.3	44.5
75°	0.0	0.0	3.7	7.4	11.1	18.6	22.3	22.3	18.6	18.6
77.5°	0.0	0.0	3.7	7.4	14.8	22.3	26.0	22.3	14.8	14.8
80°	0.0	0.0	7.4	11.1	18.6	26.0	33.4	26.0	14.8	7.4
82.5°	0.0	0.0	7.4	14.8	18.6	29.7	40.8	33.4	14.8	7.4
85°	0.0	0.0	3.7	11.1	22.3	29.7	40.8	29.7	14.8	3.7
87.5°	0.0	0.0	3.7	3.7	7.4	11.1	22.3	18.6	7.4	3.7
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°
116417.1	0°	116417.1	116417.1	116417.1	116417.1	116417.1	116417.1	116417.1	116417.1	116417.1
113630.6	2.5°	114283.6	114877.3	114999.8	114836.5	115074.0	114647.3	114320.8	113474.8	112966.5
106425.0	5°	107111.5	107022.4	107642.1	107846.1	107820.2	107493.6	107037.3	106525.2	106028.0
95308.7	7.5°	95902.4	96017.4	96581.4	96941.3	96759.5	96351.3	96036.0	95650.1	95316.1
83220.3	10°	83980.9	83190.6	83891.9	83891.9	84377.9	83224.0	83331.6	82359.5	82404.0
69328.6	12.5°	69566.1	69851.8	69966.8	70297.0	69729.3	69117.1	68367.6	68219.2	67755.4
51815.6	15°	52561.3	53377.6	52676.4	53874.8	53296.0	52657.8	52542.8	51392.6	51756.2
37582.5	17.5°	37397.0	38298.6	38580.6	39267.0	38740.2	38361.7	37883.1	37534.3	37508.3
26310.4	20°	26518.1	27423.5	27631.3	28455.0	28395.6	28276.9	27872.4	27430.9	26952.3
17910.0	22.5°	18180.9	18919.3	19609.4	20718.8	20700.3	20351.5	20310.7	19687.3	19698.4
12099.6	25°	12225.7	12763.7	12927.0	14062.4	14188.5	14151.4	13939.9	13361.1	13580.0
7391.1	27.5°	7398.5	7869.7	8422.6	8823.3	9201.8	9142.4	8930.9	8608.1	8467.1
4441.3	30°	4560.1	4771.6	4975.6	5458.0	5684.3	5803.0	5702.9	5402.3	5424.6
2923.8	32.5°	2986.9	3165.0	3313.4	3617.6	3736.4	3955.3	3914.5	3851.4	3777.2
2103.8	35°	2178.0	2307.9	2408.0	2549.0	2701.2	2886.7	2916.4	2890.4	2860.7
1625.1	37.5°	1662.3	1795.8	1910.8	1970.2	2088.9	2233.7	2315.3	2311.6	2289.3
1324.6	40°	1350.6	1450.8	1554.7	1632.6	1714.2	1821.8	1922.0	1933.1	1933.1
1113.1	42.5°	1128.0	1213.3	1317.2	1398.8	1458.2	1558.4	1662.3	1669.7	1662.3
942.4	45°	964.7	1038.9	1139.1	1235.6	1283.8	1358.0	1458.2	1480.4	1465.6
808.9	47.5°	838.5	905.3	990.7	1094.6	1146.5	1213.3	1306.1	1332.0	1328.3
697.6	50°	719.8	797.7	883.1	968.4	1035.2	1098.3	1187.3	1217.0	1205.9
593.7	52.5°	634.5	705.0	779.2	871.9	949.9	1005.5	1076.0	1128.0	1113.1
500.9	55°	530.6	615.9	693.8	771.8	868.2	927.6	994.4	1057.5	1042.6
423.0	57.5°	460.1	530.6	619.6	690.1	786.6	857.1	923.9	990.7	987.0
345.1	60°	385.9	460.1	545.4	619.6	708.7	786.6	853.4	927.6	935.0
259.7	62.5°	304.3	393.3	467.5	552.8	641.9	727.2	786.6	860.8	871.9
196.7	65°	230.0	322.8	404.4	486.1	575.1	667.9	719.8	782.9	794.0
144.7	67.5°	170.7	248.6	345.1	419.3	512.0	601.1	649.3	701.3	719.8
89.0	70°	129.9	189.2	289.4	359.9	456.4	526.9	578.8	623.3	638.2
59.4	72.5°	81.6	148.4	233.8	308.0	393.3	456.4	493.5	519.5	541.7
33.4	75°	55.7	115.0	189.2	263.4	326.5	374.7	408.1	430.4	449.0
14.8	77.5°	33.4	89.0	155.8	218.9	259.7	296.8	330.2	345.1	356.2
11.1	80°	18.6	66.8	129.9	178.1	204.1	230.0	256.0	274.6	282.0
7.4	82.5°	11.1	51.9	103.9	137.3	148.4	174.4	200.4	211.5	211.5
3.7	85°	7.4	37.1	70.5	100.2	107.6	126.2	133.6	141.0	148.4
3.7	87.5°	7.4	22.3	44.5	55.7	59.4	66.8	70.5	77.9	85.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
116417.1
112591.7
105471.5
94184.5
81969.9
67332.4
51392.6
36818.2
26744.5
19483.2
13235.0
8344.7
5328.1
3751.2
2849.6
2278.2
1910.8
1654.8
1465.6
1320.9
1198.5
1109.4
1050.0
990.7
938.7
879.4
805.2
727.2
645.6
538.0
445.2
352.5
274.6
207.8
144.7
81.6
0.0

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