

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: P637371

Luminaire Tested: **IFLD-L-SA8A-735-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637371
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-735-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32586.9 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

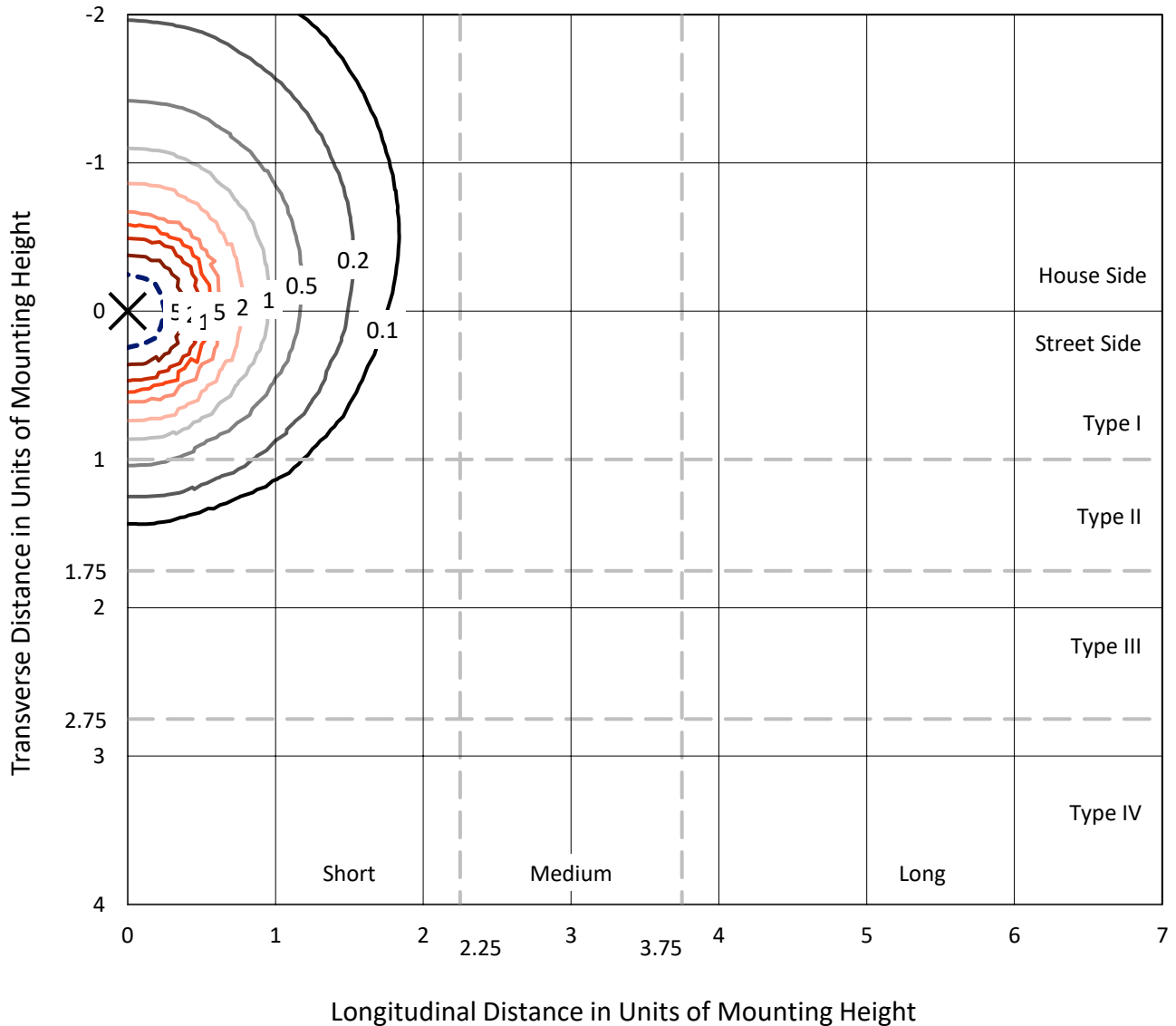
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

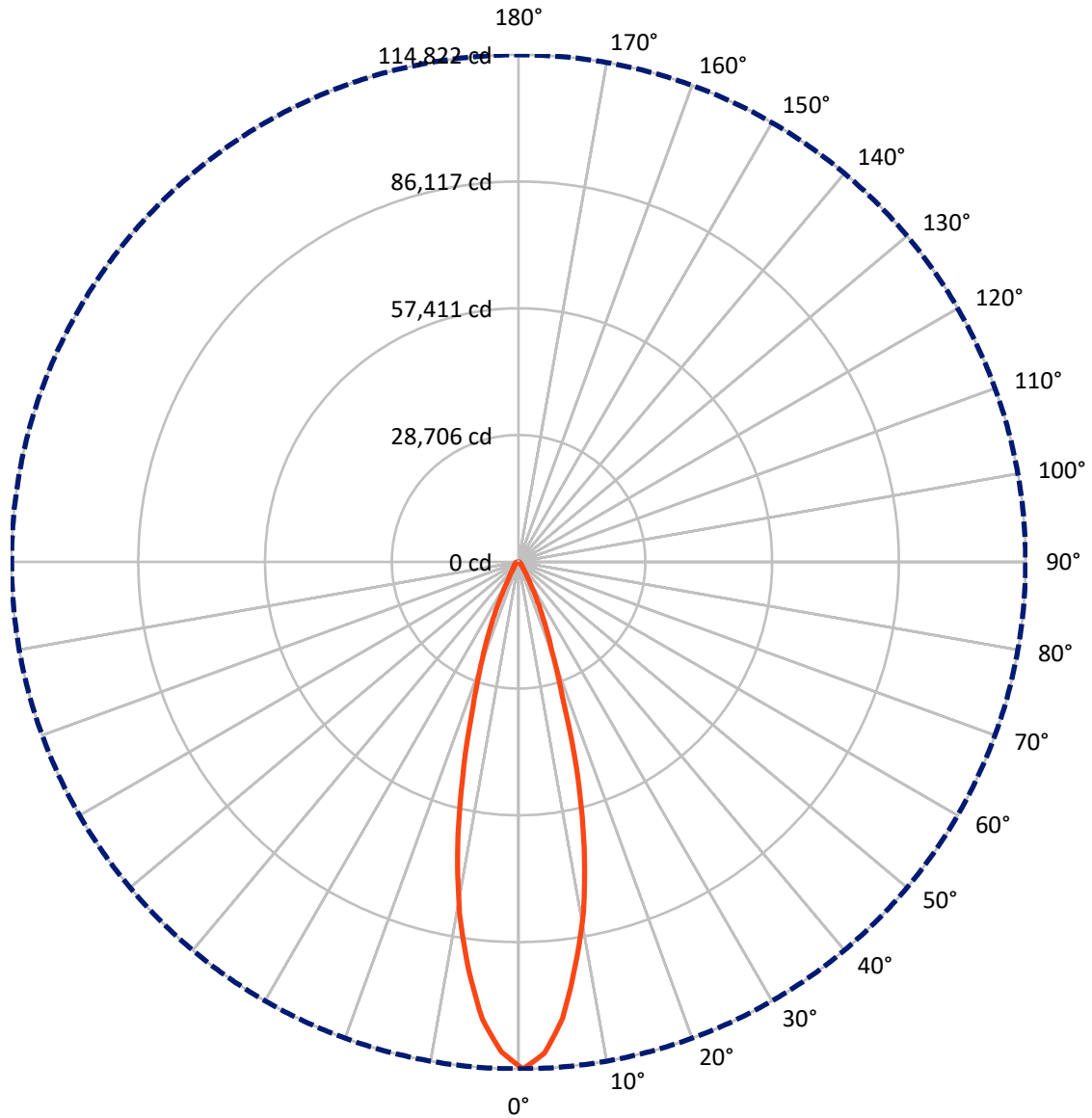
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 287.1 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	17182.0	0.0	17182.0
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	15404.9	0.0	15404.9
	% Fixture	47.3	0.0	47.3
Total	Lumens	32586.9	0.0	32586.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9267.2	28.4
10°-20°	14035.1	43.1
20°-30°	5922.9	18.2
30°-40°	1544.7	4.7
40°-50°	781.3	2.4
50°-60°	510.7	1.6
60°-70°	306.0	0.9
70°-80°	161.0	0.5
80°-90°	58.1	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°	32586.9	100.0
0°-180°	32586.9	100.0

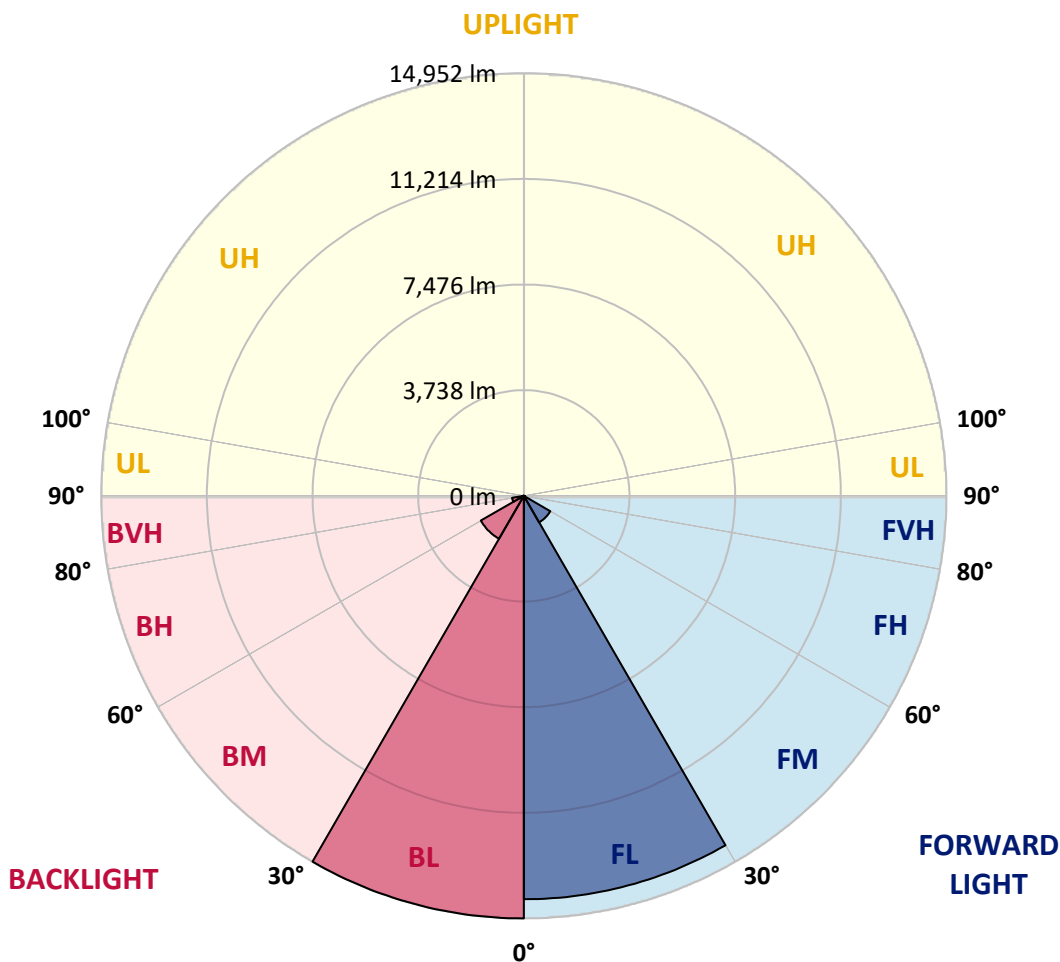


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	14272.9	43.8			
FM (30°-60°)	1080.9	3.3			
FH (60°-80°)	44.1	0.1			G0/660
FVH (80°-90°)	7.1	0.0			G0/10
BL (0°-30°)	14952.3	45.9	B5		
BM (30°-60°)	1755.8	5.4	B2/2500		
BH (60°-80°)	422.9	1.3	B1/500		G0/660
BVH (80°-90°)	51.1	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°	114822.2	114822.2	114822.2	114822.2	114822.2	114822.2	114822.2	114822.2	114822.2	114822.2
2.5°	111477.4	111539.6	111309.0	111806.7	111418.8	112458.1	111942.1	112747.2	112476.4	112926.6
5°	103865.5	103763.0	103697.2	104469.3	104246.1	105362.3	104648.6	104414.4	105139.0	105007.3
7.5°	92370.8	92641.6	92487.9	92689.2	92802.7	94076.2	94478.7	94164.0	94175.0	94358.0
10°	80587.1	80188.2	79620.9	79997.9	80795.7	81351.9	81128.7	81589.8	81487.3	81922.8
12.5°	66087.9	66402.6	66084.2	65747.6	67141.9	66988.2	67376.1	67628.6	66995.5	68404.4
15°	49780.9	49945.6	50333.5	50307.9	51380.2	51596.1	51544.8	51812.0	51317.9	51552.2
17.5°	31980.9	32537.1	33580.1	35344.0	37327.5	37558.0	37499.5	37279.9	37042.0	36778.5
20°	21481.6	21423.0	21800.0	22316.0	26422.0	27508.9	27475.9	26787.9	25792.5	25602.2
22.5°	15048.1	15157.9	15106.6	15619.0	16468.0	19465.2	19095.6	18396.6	18070.9	17858.6
25°	9899.1	9858.8	10115.0	10268.7	10997.0	11362.9	12658.4	12398.6	11897.2	11952.1
27.5°	6034.6	6085.8	6181.0	6312.7	6828.7	6711.6	7450.9	7549.7	7388.6	7216.6
30°	3703.5	3740.1	3816.9	3912.1	4091.4	3963.3	4168.2	4523.2	4464.7	4343.9
32.5°	2514.1	2517.8	2572.7	2609.3	2587.3	2466.5	2532.4	2869.1	2876.4	2865.4
35°	1807.8	1807.8	1859.1	1888.3	1826.1	1727.3	1738.3	1946.9	2038.4	2056.7
37.5°	1247.9	1251.6	1339.4	1427.2	1357.7	1332.1	1288.2	1427.2	1573.6	1595.6
40°	947.8	944.2	988.1	1054.0	1061.3	1013.7	1028.3	1116.2	1266.2	1284.5
42.5°	768.5	772.2	794.1	786.8	790.5	852.7	874.6	914.9	1054.0	1086.9
45°	647.7	651.4	662.4	625.8	611.1	706.3	735.6	757.5	874.6	914.9
47.5°	534.3	541.6	552.6	512.3	505.0	567.2	618.5	640.4	742.9	786.8
50°	384.3	391.6	431.8	409.9	431.8	446.5	516.0	548.9	618.5	677.0
52.5°	278.1	285.4	296.4	300.1	355.0	362.3	413.5	464.8	497.7	563.6
55°	219.6	226.9	219.6	212.3	259.8	300.1	318.4	373.3	398.9	475.7
57.5°	124.4	131.7	142.7	164.7	172.0	230.6	248.8	296.4	318.4	391.6
60°	22.0	25.6	40.3	98.8	120.8	146.4	186.6	226.9	256.2	307.4
62.5°	3.7	3.7	7.3	22.0	69.5	102.5	135.4	161.0	186.6	234.2
65°	0.0	0.0	3.7	7.3	18.3	58.6	73.2	95.1	128.1	168.3
67.5°	0.0	0.0	3.7	7.3	11.0	22.0	32.9	58.6	73.2	113.4
70°	0.0	0.0	3.7	7.3	11.0	14.6	18.3	25.6	43.9	69.5
72.5°	0.0	0.0	3.7	7.3	11.0	14.6	18.3	22.0	22.0	43.9
75°	0.0	0.0	3.7	7.3	11.0	18.3	22.0	22.0	18.3	18.3
77.5°	0.0	0.0	3.7	7.3	14.6	22.0	25.6	22.0	14.6	14.6
80°	0.0	0.0	7.3	11.0	18.3	25.6	32.9	25.6	14.6	7.3
82.5°	0.0	0.0	7.3	14.6	18.3	29.3	40.3	32.9	14.6	7.3
85°	0.0	0.0	3.7	11.0	22.0	29.3	40.3	29.3	14.6	3.7
87.5°	0.0	0.0	3.7	3.7	7.3	11.0	22.0	18.3	7.3	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°
114822.2	0°	114822.2	114822.2	114822.2	114822.2	114822.2	114822.2	114822.2	114822.2	114822.2
112073.9	2.5°	112718.0	113303.5	113424.3	113263.2	113497.4	113076.6	112754.6	111920.2	111418.8
104967.0	5°	105644.0	105556.2	106167.4	106368.6	106343.0	106021.0	105570.8	105065.8	104575.5
94003.0	7.5°	94588.5	94702.0	95258.2	95613.2	95433.9	95031.3	94720.3	94339.7	94010.3
82080.2	10°	82830.4	82050.9	82742.5	82742.5	83221.9	82083.8	82190.0	81231.1	81275.1
68378.8	12.5°	68613.0	68894.8	69008.2	69333.9	68774.0	68170.2	67431.0	67284.6	66827.1
51105.7	15°	51841.3	52646.4	51954.7	53136.7	52565.9	51936.4	51823.0	50688.5	51047.1
37067.6	17.5°	36884.7	37773.9	38052.1	38729.1	38209.4	37836.1	37364.1	37020.1	36994.4
25949.9	20°	26154.8	27047.8	27252.7	28065.1	28006.6	27889.5	27490.6	27055.1	26583.0
17664.7	22.5°	17931.8	18660.1	19340.7	20435.0	20416.7	20072.7	20032.4	19417.6	19428.6
11933.8	25°	12058.2	12588.9	12749.9	13869.7	13994.1	13957.5	13748.9	13178.1	13394.0
7289.8	27.5°	7297.2	7761.9	8307.2	8702.4	9075.7	9017.1	8808.5	8490.2	8351.1
4380.5	30°	4497.6	4706.2	4907.5	5383.2	5606.4	5723.5	5624.7	5328.3	5350.3
2883.7	32.5°	2945.9	3121.6	3268.0	3568.1	3685.2	3901.1	3860.8	3798.6	3725.4
2075.0	35°	2148.2	2276.2	2375.1	2514.1	2664.2	2847.1	2876.4	2850.8	2821.5
1602.9	37.5°	1639.5	1771.2	1884.7	1943.2	2060.3	2203.1	2283.6	2279.9	2257.9
1306.5	40°	1332.1	1430.9	1533.4	1610.2	1690.7	1796.8	1895.6	1906.6	1906.6
1097.9	42.5°	1112.5	1196.7	1299.1	1379.7	1438.2	1537.0	1639.5	1646.8	1639.5
929.5	45°	951.5	1024.7	1123.5	1218.6	1266.2	1339.4	1438.2	1460.2	1445.5
797.8	47.5°	827.1	892.9	977.1	1079.6	1130.8	1196.7	1288.2	1313.8	1310.1
688.0	50°	710.0	786.8	871.0	955.1	1021.0	1083.2	1171.1	1200.3	1189.4
585.5	52.5°	625.8	695.3	768.5	860.0	936.8	991.7	1061.3	1112.5	1097.9
494.0	55°	523.3	607.5	684.3	761.2	856.3	914.9	980.8	1043.0	1028.3
417.2	57.5°	453.8	523.3	611.1	680.7	775.8	845.4	911.2	977.1	973.4
340.3	60°	380.6	453.8	538.0	611.1	699.0	775.8	841.7	914.9	922.2
256.2	62.5°	300.1	387.9	461.1	545.3	633.1	717.3	775.8	849.0	860.0
194.0	65°	226.9	318.4	398.9	479.4	567.2	658.7	710.0	772.2	783.1
142.7	67.5°	168.3	245.2	340.3	413.5	505.0	592.8	640.4	691.7	710.0
87.8	70°	128.1	186.6	285.4	355.0	450.1	519.7	570.9	614.8	629.4
58.6	72.5°	80.5	146.4	230.6	303.7	387.9	450.1	486.7	512.3	534.3
32.9	75°	54.9	113.4	186.6	259.8	322.0	369.6	402.6	424.5	442.8
14.6	77.5°	32.9	87.8	153.7	215.9	256.2	292.8	325.7	340.3	351.3
11.0	80°	18.3	65.9	128.1	175.7	201.3	226.9	252.5	270.8	278.1
7.3	82.5°	11.0	51.2	102.5	135.4	146.4	172.0	197.6	208.6	208.6
3.7	85°	7.3	36.6	69.5	98.8	106.1	124.4	131.7	139.1	146.4
3.7	87.5°	7.3	22.0	43.9	54.9	58.6	65.9	69.5	76.9	84.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
114822.2
111049.2
104026.5
92894.1
80846.9
66409.9
50688.5
36313.8
26378.1
19216.3
13053.6
8230.3
5255.1
3699.8
2810.5
2247.0
1884.7
1632.2
1445.5
1302.8
1182.0
1094.2
1035.7
977.1
925.9
867.3
794.1
717.3
636.8
530.6
439.1
347.7
270.8
204.9
142.7
80.5
0.0

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