

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: P637285

Luminaire Tested: **IFLD-L-SA8B-722-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637285
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-722-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28913.9 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

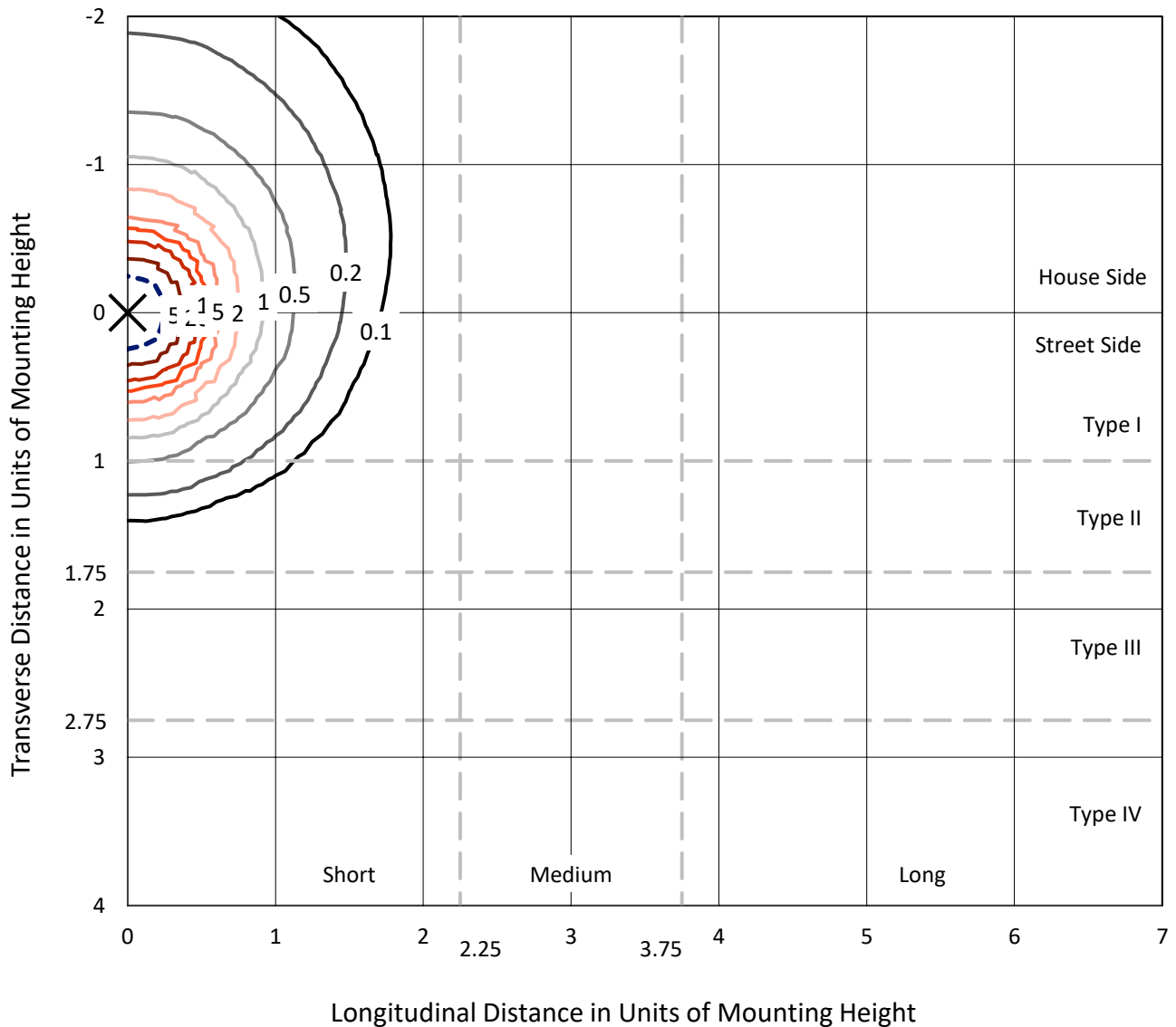
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

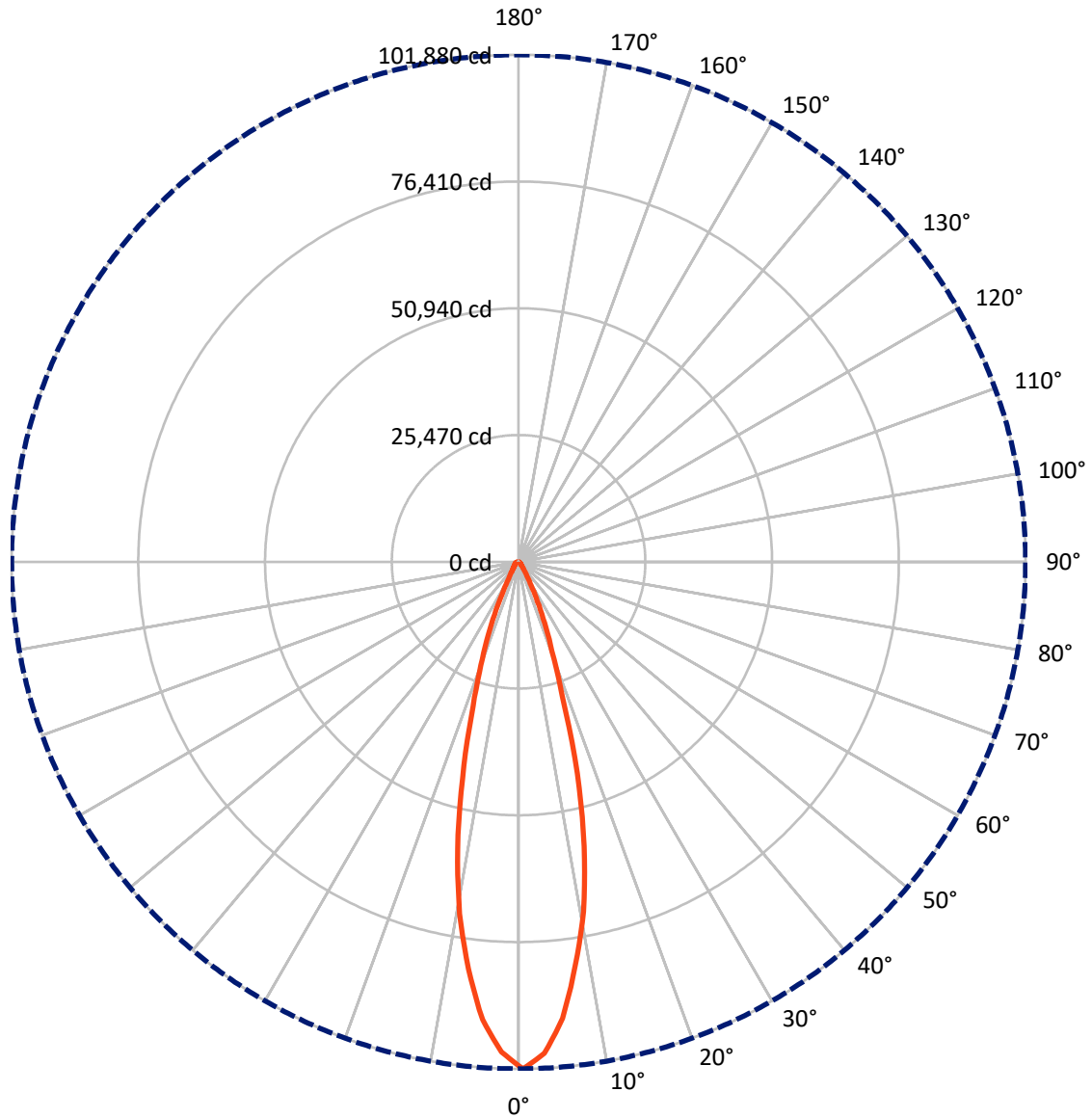
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 254.7 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	15245.3	0.0	15245.3
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	13668.5	0.0	13668.5
	% Fixture	47.3	0.0	47.3
Total	Lumens	28913.9	0.0	28913.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8222.6	28.4
10°-20°	12453.1	43.1
20°-30°	5255.3	18.2
30°-40°	1370.6	4.7
40°-50°	693.2	2.4
50°-60°	453.1	1.6
60°-70°	271.5	0.9
70°-80°	142.8	0.5
80°-90°	51.6	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°	28913.9	100.0
0°-180°	28913.9	100.0

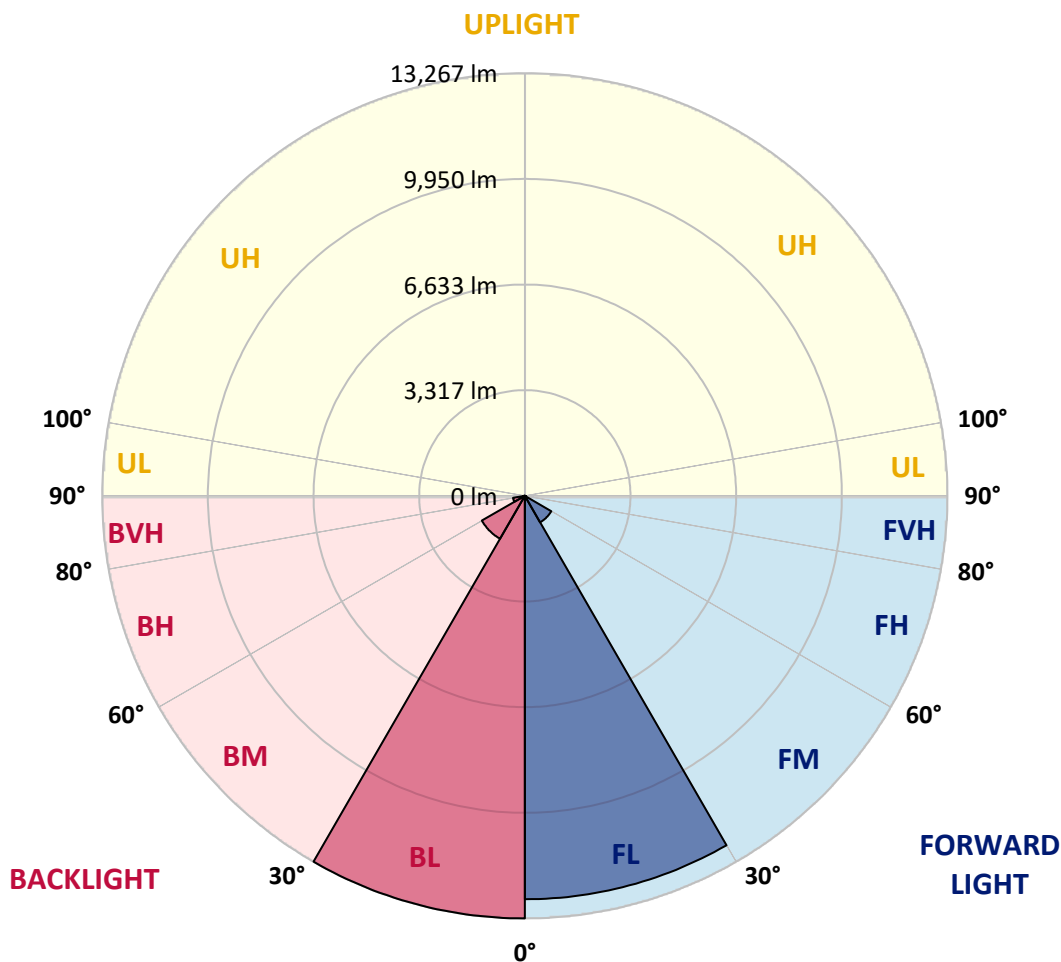


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12664.1	43.8			
FM (30°-60°)	959.1	3.3			
FH (60°-80°)	39.1	0.1			G0/660
FVH (80°-90°)	6.3	0.0			G0/10
BL (0°-30°)	13266.9	45.9	B5		
BM (30°-60°)	1557.9	5.4	B2/2500		
BH (60°-80°)	375.2	1.3	B1/500		G0/660
BVH (80°-90°)	45.3	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°	101880.1	101880.1	101880.1	101880.1	101880.1	101880.1	101880.1	101880.1	101880.1	101880.1
2.5°	98912.3	98967.5	98762.9	99204.5	98860.3	99782.5	99324.6	100039.0	99798.7	100198.1
5°	92158.3	92067.4	92009.0	92694.1	92496.0	93486.4	92853.2	92645.4	93288.3	93171.4
7.5°	81959.3	82199.6	82063.2	82241.8	82342.5	83472.4	83829.6	83550.4	83560.1	83722.5
10°	71503.7	71149.8	70646.5	70981.0	71688.8	72182.4	71984.3	72393.4	72302.5	72688.9
12.5°	58638.8	58918.1	58635.6	58336.9	59574.0	59437.6	59781.8	60005.9	59444.1	60694.2
15°	44169.9	44316.0	44660.2	44637.5	45588.9	45780.4	45735.0	45972.0	45533.7	45741.5
17.5°	28376.1	28869.7	29795.1	31360.2	33120.1	33324.7	33272.7	33077.9	32866.8	32633.1
20°	19060.3	19008.3	19342.8	19800.6	23443.8	24408.2	24379.0	23768.6	22885.4	22716.5
22.5°	13352.0	13449.4	13403.9	13858.5	14611.8	17271.2	16943.2	16323.0	16034.0	15845.7
25°	8783.3	8747.6	8974.9	9111.3	9757.4	10082.2	11231.6	11001.1	10556.2	10604.9
27.5°	5354.4	5399.9	5484.3	5601.2	6059.0	5955.1	6611.0	6698.7	6555.8	6403.2
30°	3286.0	3318.5	3386.7	3471.1	3630.2	3516.6	3698.4	4013.4	3961.4	3854.3
32.5°	2230.7	2234.0	2282.7	2315.2	2295.7	2188.5	2247.0	2545.7	2552.2	2542.5
35°	1604.1	1604.1	1649.5	1675.5	1620.3	1532.6	1542.4	1727.4	1808.6	1824.9
37.5°	1107.3	1110.5	1188.4	1266.4	1204.7	1181.9	1143.0	1266.4	1396.2	1415.7
40°	841.0	837.7	876.7	935.2	941.7	899.4	912.4	990.4	1123.5	1139.7
42.5°	681.9	685.1	704.6	698.1	701.4	756.6	776.0	811.8	935.2	964.4
45°	574.7	578.0	587.7	555.2	542.3	626.7	652.7	672.1	776.0	811.8
47.5°	474.1	480.6	490.3	454.6	448.1	503.3	548.8	568.2	659.2	698.1
50°	340.9	347.4	383.2	363.7	383.2	396.1	457.8	487.1	548.8	600.7
52.5°	246.8	253.3	263.0	266.3	315.0	321.5	366.9	412.4	441.6	500.0
55°	194.8	201.3	194.8	188.3	230.5	266.3	282.5	331.2	353.9	422.1
57.5°	110.4	116.9	126.6	146.1	152.6	204.6	220.8	263.0	282.5	347.4
60°	19.5	22.7	35.7	87.7	107.2	129.9	165.6	201.3	227.3	272.8
62.5°	3.2	3.2	6.5	19.5	61.7	90.9	120.1	142.9	165.6	207.8
65°	0.0	0.0	3.2	6.5	16.2	52.0	64.9	84.4	113.6	149.4
67.5°	0.0	0.0	3.2	6.5	9.7	19.5	29.2	52.0	64.9	100.7
70°	0.0	0.0	3.2	6.5	9.7	13.0	16.2	22.7	39.0	61.7
72.5°	0.0	0.0	3.2	6.5	9.7	13.0	16.2	19.5	19.5	39.0
75°	0.0	0.0	3.2	6.5	9.7	16.2	19.5	19.5	16.2	16.2
77.5°	0.0	0.0	3.2	6.5	13.0	19.5	22.7	19.5	13.0	13.0
80°	0.0	0.0	6.5	9.7	16.2	22.7	29.2	22.7	13.0	6.5
82.5°	0.0	0.0	6.5	13.0	16.2	26.0	35.7	29.2	13.0	6.5
85°	0.0	0.0	3.2	9.7	19.5	26.0	35.7	26.0	13.0	3.2
87.5°	0.0	0.0	3.2	3.2	6.5	9.7	19.5	16.2	6.5	3.2
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°
101880.1	0°	101880.1	101880.1	101880.1	101880.1	101880.1	101880.1	101880.1	101880.1	101880.1
99441.5	2.5°	100013.0	100532.5	100639.7	100496.8	100704.6	100331.2	100045.5	99305.1	98860.3
93135.7	5°	93736.4	93658.5	94200.8	94379.3	94356.6	94070.9	93671.5	93223.4	92788.3
83407.5	7.5°	83927.0	84027.7	84521.2	84836.2	84677.1	84319.9	84043.9	83706.2	83414.0
72828.5	10°	73494.2	72802.6	73416.3	73416.3	73841.6	72831.8	72925.9	72075.2	72114.2
60671.5	12.5°	60879.3	61129.3	61230.0	61519.0	61022.2	60486.4	59830.5	59700.6	59294.7
45345.3	15°	45998.0	46712.4	46098.7	47147.5	46640.9	46082.4	45981.8	44975.2	45293.4
32889.6	17.5°	32727.2	33516.3	33763.0	34363.7	33902.7	33571.5	33152.6	32847.4	32824.6
23025.0	20°	23206.8	23999.1	24180.9	24901.8	24849.8	24745.9	24392.0	24005.6	23586.7
15673.6	22.5°	15910.6	16556.8	17160.8	18131.6	18115.4	17810.2	17774.5	17229.0	17238.7
10588.7	25°	10699.1	11169.9	11312.8	12306.4	12416.8	12384.3	12199.2	11692.7	11884.3
6468.2	27.5°	6474.7	6887.0	7370.8	7721.5	8052.7	8000.8	7815.7	7533.2	7409.8
3886.7	30°	3990.6	4175.7	4354.3	4776.4	4974.5	5078.4	4990.7	4727.7	4747.2
2558.7	32.5°	2613.9	2769.8	2899.6	3165.9	3269.8	3461.4	3425.7	3370.5	3305.5
1841.1	35°	1906.0	2019.7	2107.3	2230.7	2363.9	2526.2	2552.2	2529.5	2503.5
1422.2	37.5°	1454.7	1571.6	1672.2	1724.2	1828.1	1954.7	2026.2	2022.9	2003.4
1159.2	40°	1181.9	1269.6	1360.5	1428.7	1500.1	1594.3	1682.0	1691.7	1691.7
974.1	42.5°	987.1	1061.8	1152.7	1224.1	1276.1	1363.8	1454.7	1461.2	1454.7
824.8	45°	844.2	909.2	996.9	1081.3	1123.5	1188.4	1276.1	1295.6	1282.6
707.9	47.5°	733.8	792.3	867.0	957.9	1003.3	1061.8	1143.0	1165.7	1162.5
610.4	50°	629.9	698.1	772.8	847.5	905.9	961.1	1039.1	1065.0	1055.3
519.5	52.5°	555.2	616.9	681.9	763.1	831.2	880.0	941.7	987.1	974.1
438.4	55°	464.3	539.0	607.2	675.4	759.8	811.8	870.2	925.4	912.4
370.2	57.5°	402.6	464.3	542.3	604.0	688.4	750.1	808.5	867.0	863.7
302.0	60°	337.7	402.6	477.3	542.3	620.2	688.4	746.8	811.8	818.3
227.3	62.5°	266.3	344.2	409.1	483.8	561.7	636.4	688.4	753.3	763.1
172.1	65°	201.3	282.5	353.9	425.4	503.3	584.5	629.9	685.1	694.9
126.6	67.5°	149.4	217.6	302.0	366.9	448.1	526.0	568.2	613.7	629.9
77.9	70°	113.6	165.6	253.3	315.0	399.4	461.1	506.5	545.5	558.5
52.0	72.5°	71.4	129.9	204.6	269.5	344.2	399.4	431.9	454.6	474.1
29.2	75°	48.7	100.7	165.6	230.5	285.7	328.0	357.2	376.7	392.9
13.0	77.5°	29.2	77.9	136.4	191.6	227.3	259.8	289.0	302.0	311.7
9.7	80°	16.2	58.4	113.6	155.9	178.6	201.3	224.0	240.3	246.8
6.5	82.5°	9.7	45.5	90.9	120.1	129.9	152.6	175.3	185.1	185.1
3.2	85°	6.5	32.5	61.7	87.7	94.2	110.4	116.9	123.4	129.9
3.2	87.5°	6.5	19.5	39.0	48.7	52.0	58.4	61.7	68.2	74.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
101880.1
98532.3
92301.2
82423.6
71734.3
58924.6
44975.2
32220.7
23404.9
17050.4
11582.3
7302.7
4662.8
3282.8
2493.7
1993.7
1672.2
1448.2
1282.6
1156.0
1048.8
970.9
918.9
867.0
821.5
769.6
704.6
636.4
565.0
470.8
389.6
308.5
240.3
181.8
126.6
71.4
0.0

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