

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: P637412

Luminaire Tested: **IFLD-S-SA3D-750-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637412
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-750-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (48) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22994 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

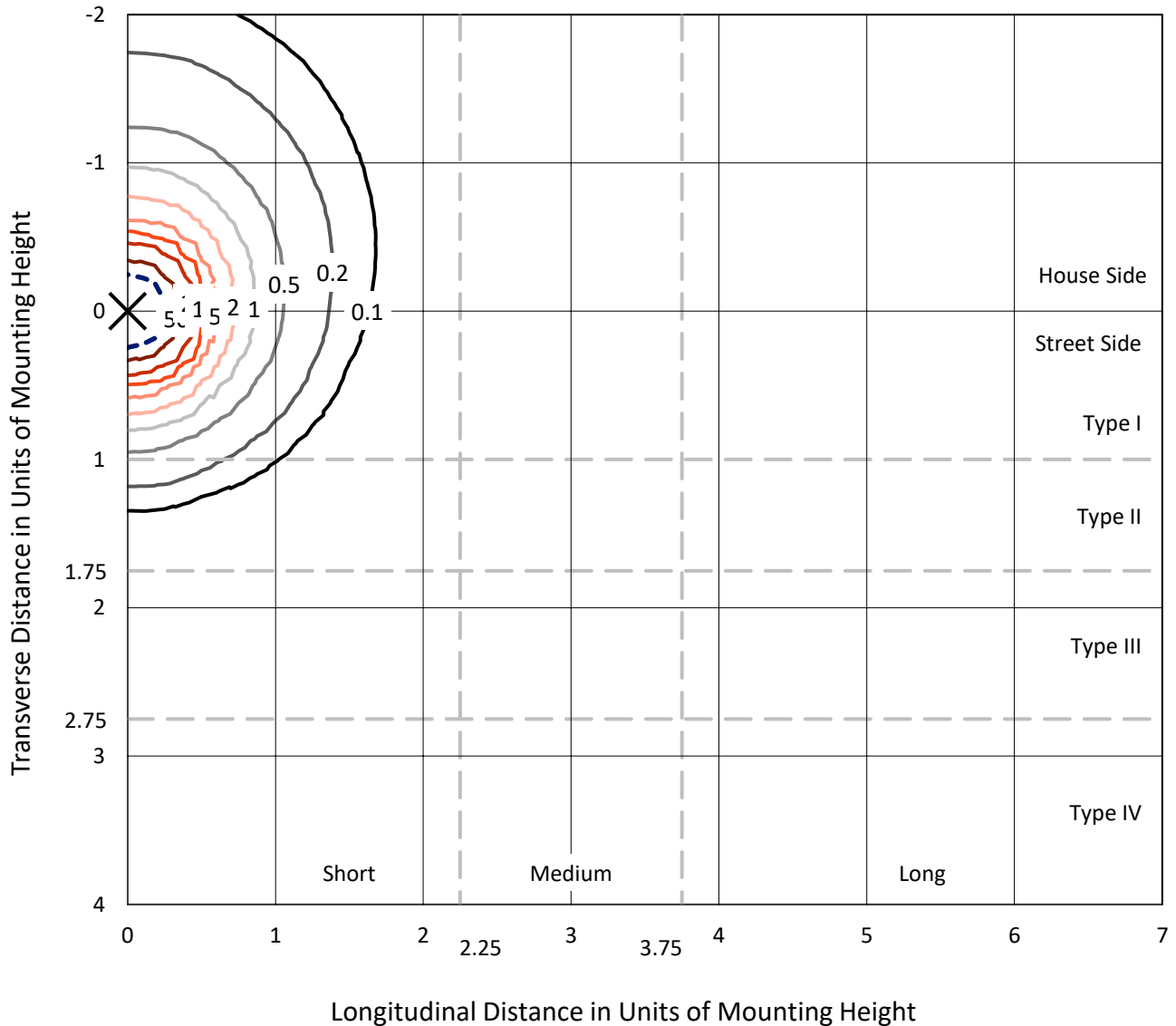
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

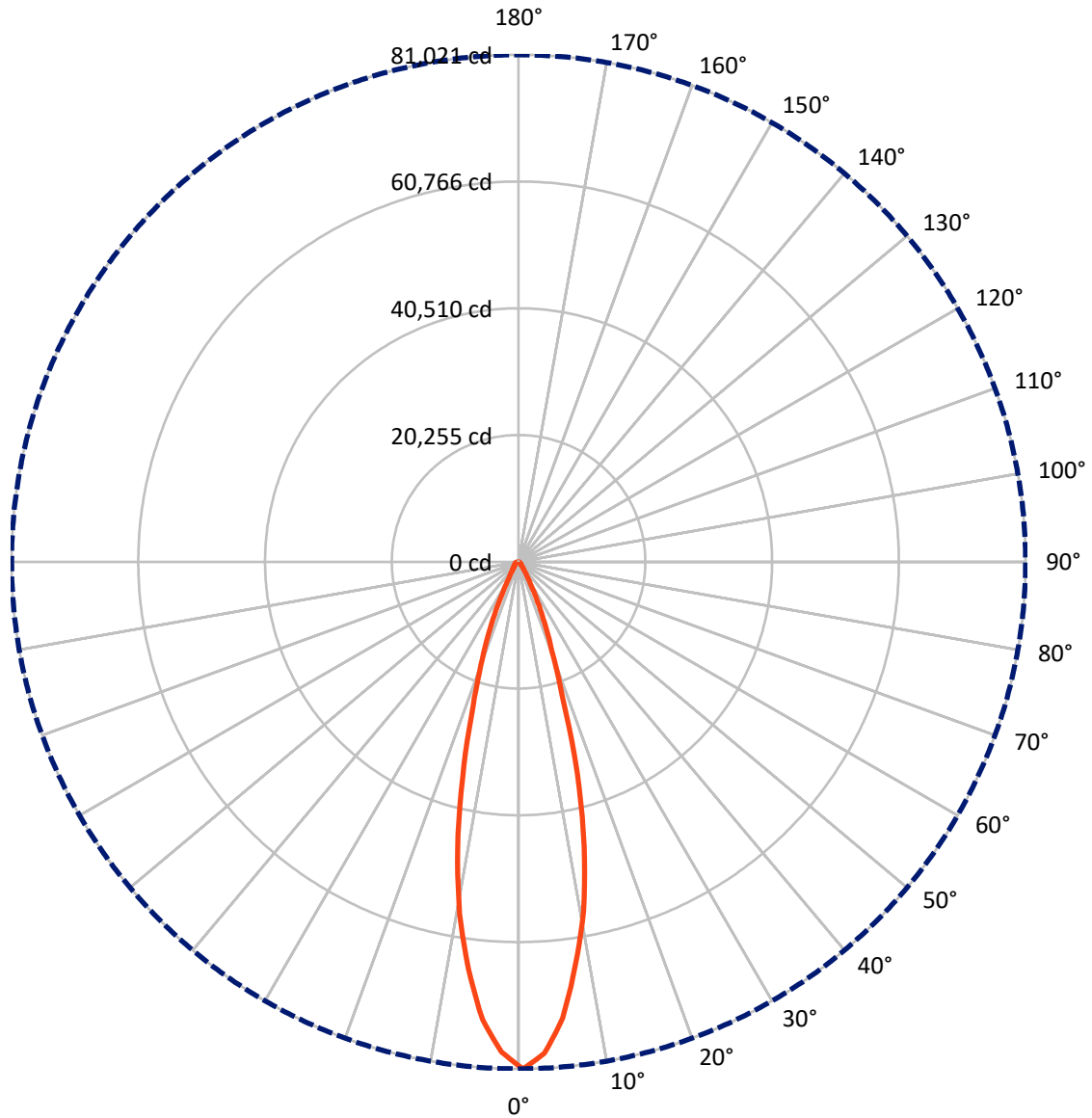
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 202.6 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	12124.0	0.0	12124.0
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	10870.0	0.0	10870.0
	% Fixture	47.3	0.0	47.3
Total	Lumens	22994.0	0.0	22994.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6539.1	28.4
10°-20°	9903.4	43.1
20°-30°	4179.3	18.2
30°-40°	1090.0	4.7
40°-50°	551.3	2.4
50°-60°	360.4	1.6
60°-70°	215.9	0.9
70°-80°	113.6	0.5
80°-90°	41.0	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°	22994.0	100.0
0°-180°	22994.0	100.0



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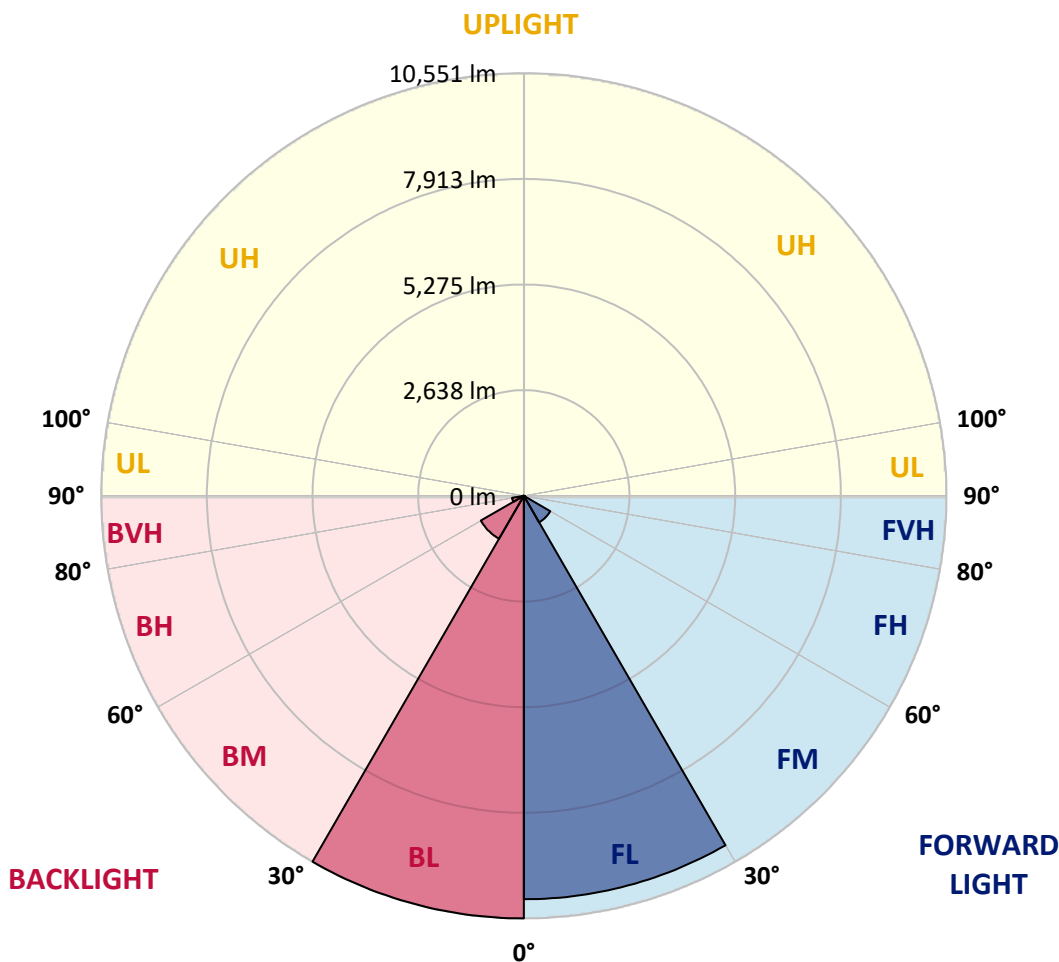
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10071.2	43.8			
FM (30°-60°)	762.7	3.3			
FH (60°-80°)	31.1	0.1			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	10550.6	45.9	B5		
BM (30°-60°)	1238.9	5.4	B2/2500		
BH (60°-80°)	298.4	1.3	B1/500		G0/660
BVH (80°-90°)	36.0	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°	81020.9	81020.9	81020.9	81020.9	81020.9	81020.9	81020.9	81020.9	81020.9	81020.9
2.5°	78660.7	78704.6	78541.9	78893.1	78619.4	79352.7	78988.6	79556.7	79365.6	79683.3
5°	73289.6	73217.3	73170.8	73715.7	73558.2	74345.7	73842.2	73676.9	74188.2	74095.3
7.5°	65178.7	65369.8	65261.4	65403.4	65483.4	66382.1	66666.1	66444.0	66451.8	66580.9
10°	56863.9	56582.4	56182.1	56448.1	57011.1	57403.6	57246.0	57571.4	57499.1	57806.4
12.5°	46633.0	46855.0	46630.4	46392.8	47376.7	47268.2	47541.9	47720.1	47273.4	48267.5
15°	35126.4	35242.6	35516.4	35498.3	36254.9	36407.2	36371.1	36559.6	36211.0	36376.2
17.5°	22566.3	22958.8	23694.8	24939.4	26339.0	26501.7	26460.4	26305.4	26137.6	25951.7
20°	15157.8	15116.5	15382.5	15746.6	18643.9	19410.8	19387.6	18902.1	18199.7	18065.5
22.5°	10618.2	10695.7	10659.6	11021.1	11620.2	13735.0	13474.2	12981.0	12751.2	12601.4
25°	6985.0	6956.6	7137.4	7245.8	7759.7	8017.9	8932.0	8748.7	8394.9	8433.6
27.5°	4258.1	4294.3	4361.4	4454.4	4818.5	4735.9	5257.5	5327.2	5213.6	5092.2
30°	2613.2	2639.1	2693.3	2760.4	2887.0	2796.6	2941.2	3191.7	3150.4	3065.1
32.5°	1774.0	1776.6	1815.3	1841.1	1825.7	1740.4	1786.9	2024.5	2029.7	2021.9
35°	1275.6	1275.6	1311.8	1332.4	1288.5	1218.8	1226.6	1373.8	1438.3	1451.2
37.5°	880.5	883.1	945.1	1007.1	958.0	939.9	909.0	1007.1	1110.4	1125.9
40°	668.8	666.2	697.2	743.7	748.9	715.3	725.6	787.6	893.5	906.4
42.5°	542.3	544.9	560.3	555.2	557.8	601.7	617.2	645.6	743.7	766.9
45°	457.1	459.6	467.4	441.6	431.2	498.4	519.0	534.5	617.2	645.6
47.5°	377.0	382.2	389.9	361.5	356.4	400.2	436.4	451.9	524.2	555.2
50°	271.1	276.3	304.7	289.2	304.7	315.0	364.1	387.3	436.4	477.7
52.5°	196.3	201.4	209.2	211.7	250.5	255.6	291.8	327.9	351.2	397.7
55°	154.9	160.1	154.9	149.8	183.3	211.7	224.7	263.4	281.5	335.7
57.5°	87.8	93.0	100.7	116.2	121.4	162.7	175.6	209.2	224.7	276.3
60°	15.5	18.1	28.4	69.7	85.2	103.3	131.7	160.1	180.8	216.9
62.5°	2.6	2.6	5.2	15.5	49.1	72.3	95.5	113.6	131.7	165.3
65°	0.0	0.0	2.6	5.2	12.9	41.3	51.6	67.1	90.4	118.8
67.5°	0.0	0.0	2.6	5.2	7.7	15.5	23.2	41.3	51.6	80.0
70°	0.0	0.0	2.6	5.2	7.7	10.3	12.9	18.1	31.0	49.1
72.5°	0.0	0.0	2.6	5.2	7.7	10.3	12.9	15.5	15.5	31.0
75°	0.0	0.0	2.6	5.2	7.7	12.9	15.5	15.5	12.9	12.9
77.5°	0.0	0.0	2.6	5.2	10.3	15.5	18.1	15.5	10.3	10.3
80°	0.0	0.0	5.2	7.7	12.9	18.1	23.2	18.1	10.3	5.2
82.5°	0.0	0.0	5.2	10.3	12.9	20.7	28.4	23.2	10.3	5.2
85°	0.0	0.0	2.6	7.7	15.5	20.7	28.4	20.7	10.3	2.6
87.5°	0.0	0.0	2.6	2.6	5.2	7.7	15.5	12.9	5.2	2.6
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°
81020.9	0°	81020.9	81020.9	81020.9	81020.9	81020.9	81020.9	81020.9	81020.9	81020.9
79081.6	2.5°	79536.1	79949.2	80034.5	79920.8	80086.1	79789.1	79561.9	78973.1	78619.4
74066.9	5°	74544.6	74482.6	74913.8	75055.9	75037.8	74810.5	74492.9	74136.6	73790.6
66330.4	7.5°	66743.6	66823.6	67216.1	67466.6	67340.1	67056.0	66836.5	66568.0	66335.6
57917.4	10°	58446.8	57896.8	58384.8	58384.8	58723.1	57920.0	57994.9	57318.3	57349.3
48249.5	12.5°	48414.7	48613.6	48693.6	48923.4	48528.3	48102.3	47580.7	47477.4	47154.6
36061.2	15°	36580.2	37148.3	36660.3	37494.4	37091.5	36647.4	36567.3	35766.8	36019.9
26155.7	17.5°	26026.6	26654.0	26850.3	27328.0	26961.3	26697.9	26364.8	26122.1	26104.0
18310.8	20°	18455.4	19085.5	19230.1	19803.3	19762.0	19679.4	19397.9	19090.6	18757.5
12464.6	22.5°	12653.1	13166.9	13647.2	14419.3	14406.4	14163.7	14135.3	13701.5	13709.2
8420.7	25°	8508.5	8883.0	8996.6	9786.8	9874.5	9848.7	9701.5	9298.7	9451.1
5143.9	27.5°	5149.0	5477.0	5861.7	6140.6	6404.0	6362.7	6215.5	5990.8	5892.7
3091.0	30°	3173.6	3320.8	3462.8	3798.5	3956.0	4038.6	3968.9	3759.8	3775.3
2034.8	32.5°	2078.7	2202.7	2306.0	2517.7	2600.3	2752.7	2724.3	2680.4	2628.7
1464.1	35°	1515.8	1606.2	1675.9	1774.0	1879.9	2009.0	2029.7	2011.6	1990.9
1131.0	37.5°	1156.9	1249.8	1329.9	1371.2	1453.8	1554.5	1611.3	1608.7	1593.3
921.9	40°	939.9	1009.7	1082.0	1136.2	1193.0	1267.9	1337.6	1345.4	1345.4
774.7	42.5°	785.0	844.4	916.7	973.5	1014.8	1084.5	1156.9	1162.0	1156.9
655.9	45°	671.4	723.0	792.8	859.9	893.5	945.1	1014.8	1030.3	1020.0
562.9	47.5°	583.6	630.1	689.5	761.8	797.9	844.4	909.0	927.0	924.4
485.5	50°	501.0	555.2	614.6	674.0	720.4	764.3	826.3	847.0	839.2
413.2	52.5°	441.6	490.6	542.3	606.8	661.1	699.8	748.9	785.0	774.7
348.6	55°	369.3	428.7	482.9	537.1	604.2	645.6	692.0	735.9	725.6
294.4	57.5°	320.2	369.3	431.2	480.3	547.4	596.5	643.0	689.5	686.9
240.1	60°	268.6	320.2	379.6	431.2	493.2	547.4	593.9	645.6	650.7
180.8	62.5°	211.7	273.7	325.4	384.8	446.7	506.1	547.4	599.1	606.8
136.9	65°	160.1	224.7	281.5	338.3	400.2	464.8	501.0	544.9	552.6
100.7	67.5°	118.8	173.0	240.1	291.8	356.4	418.3	451.9	488.0	501.0
62.0	70°	90.4	131.7	201.4	250.5	317.6	366.7	402.8	433.8	444.1
41.3	72.5°	56.8	103.3	162.7	214.3	273.7	317.6	343.4	361.5	377.0
23.2	75°	38.7	80.0	131.7	183.3	227.2	260.8	284.0	299.5	312.5
10.3	77.5°	23.2	62.0	108.5	152.4	180.8	206.6	229.8	240.1	247.9
7.7	80°	12.9	46.5	90.4	123.9	142.0	160.1	178.2	191.1	196.3
5.2	82.5°	7.7	36.2	72.3	95.5	103.3	121.4	139.4	147.2	147.2
2.6	85°	5.2	25.8	49.1	69.7	74.9	87.8	93.0	98.1	103.3
2.6	87.5°	5.2	15.5	31.0	38.7	41.3	46.5	49.1	54.2	59.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
81020.9
78358.6
73403.2
65548.0
57047.2
46860.2
35766.8
25623.7
18612.9
13559.4
9210.9
5807.5
3708.1
2610.7
1983.2
1585.5
1329.9
1151.7
1020.0
919.3
834.1
772.1
730.8
689.5
653.3
612.0
560.3
506.1
449.3
374.4
309.9
245.3
191.1
144.6
100.7
56.8
0.0

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