

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: P637421

Luminaire Tested: **IFLD-M-SA4C-750-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637421
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-750-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28049.9 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

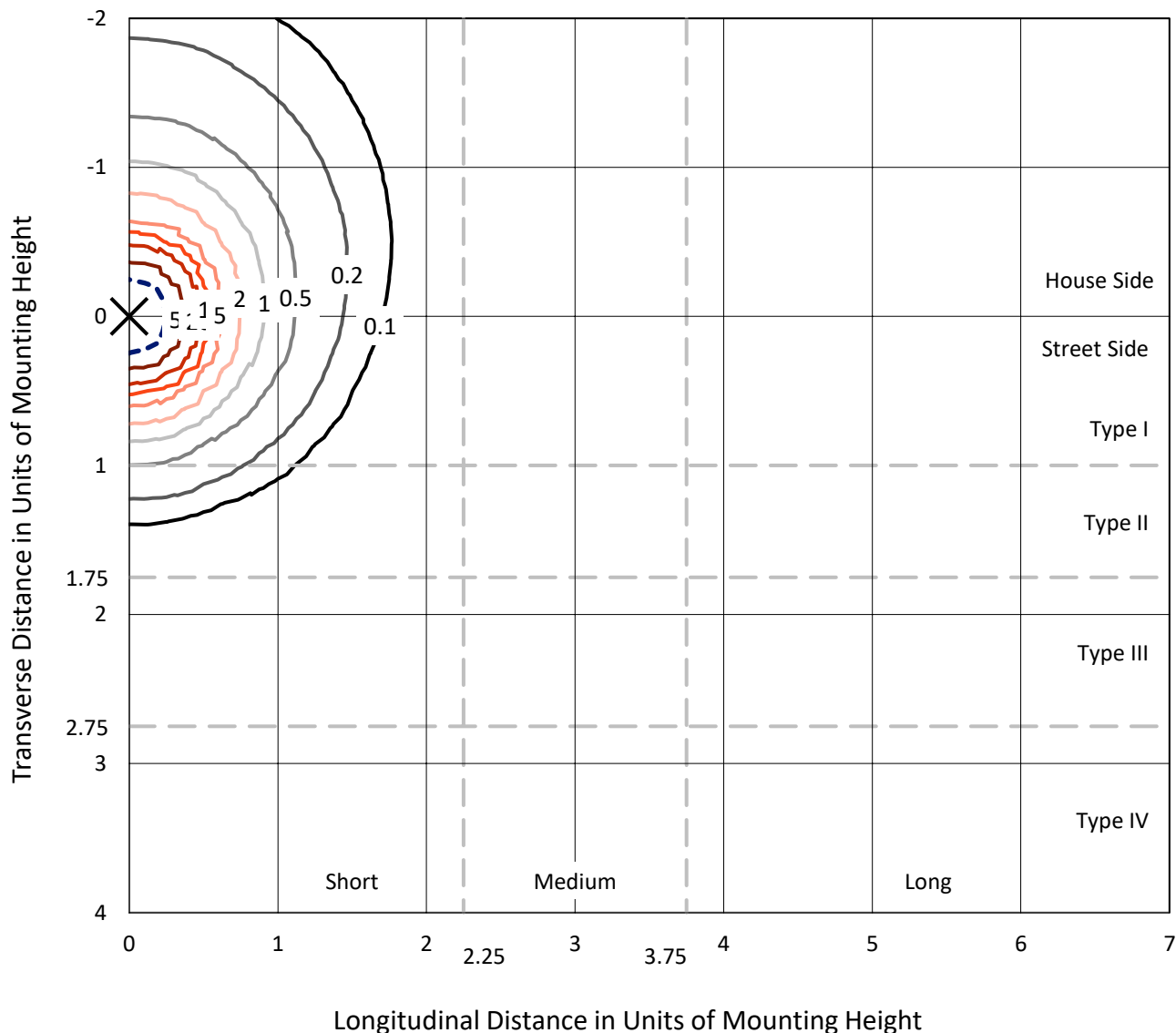
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

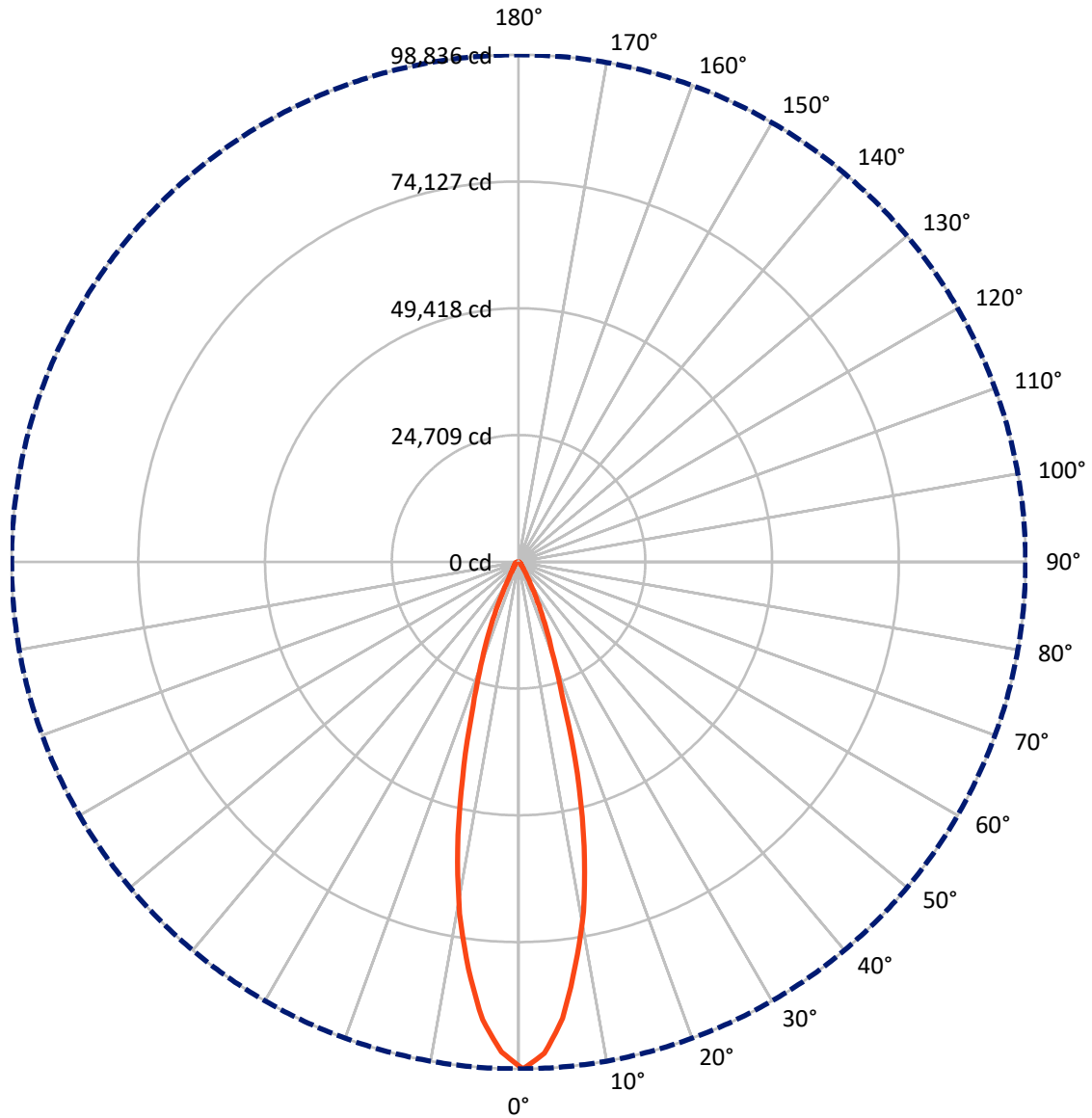
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 247.1 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	14789.8	0.0	14789.8
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	13260.1	0.0	13260.1
	% Fixture	47.3	0.0	47.3
Total	Lumens	28049.9	0.0	28049.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7976.9	28.4
10°-20°	12081.0	43.1
20°-30°	5098.2	18.2
30°-40°	1329.7	4.7
40°-50°	672.5	2.4
50°-60°	439.6	1.6
60°-70°	263.4	0.9
70°-80°	138.6	0.5
80°-90°	50.1	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°	28049.9	100.0
0°-180°	28049.9	100.0

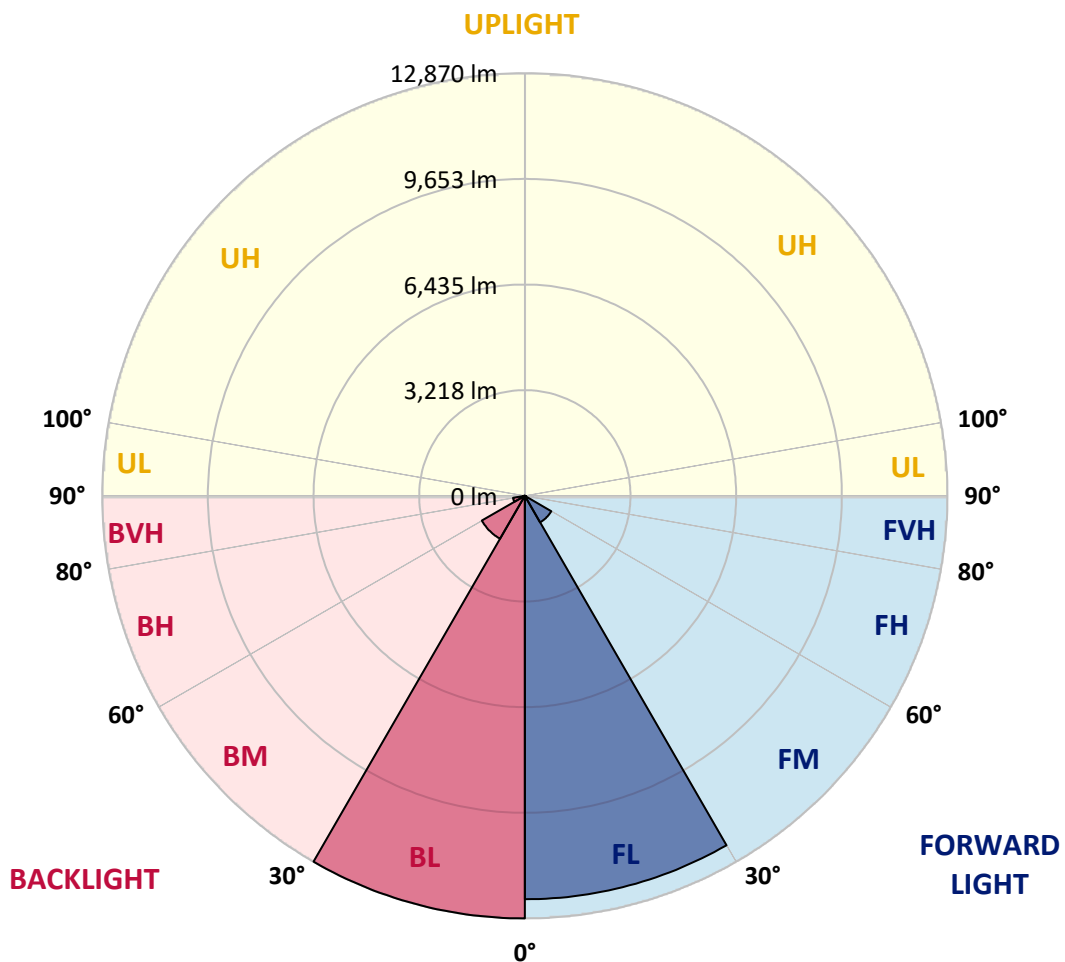


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12285.6	43.8			
FM (30°-60°)	930.4	3.3			
FH (60°-80°)	37.9	0.1			G0/660
FVH (80°-90°)	6.1	0.0			G0/10
BL (0°-30°)	12870.4	45.9	B5		
BM (30°-60°)	1511.4	5.4	B2/2500		
BH (60°-80°)	364.0	1.3	B1/500		G0/660
BVH (80°-90°)	44.0	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°	98835.5	98835.5	98835.5	98835.5	98835.5	98835.5	98835.5	98835.5	98835.5	98835.5
2.5°	95956.4	96009.9	95811.5	96239.9	95906.0	96800.6	96356.4	97049.4	96816.3	97203.8
5°	89404.3	89316.1	89259.4	89924.0	89731.9	90692.6	90078.4	89876.8	90500.5	90387.1
7.5°	79510.0	79743.1	79610.8	79784.1	79881.7	80977.9	81324.4	81053.5	81063.0	81220.5
10°	69366.9	69023.6	68535.3	68859.8	69546.5	70025.3	69833.1	70230.0	70141.8	70516.7
12.5°	56886.5	57157.4	56883.3	56593.5	57793.7	57661.4	57995.3	58212.6	57667.7	58880.4
15°	42849.9	42991.7	43325.6	43303.5	44226.5	44412.3	44368.2	44598.2	44172.9	44374.5
17.5°	27528.2	28007.0	28904.7	30423.0	32130.4	32328.8	32278.4	32089.4	31884.7	31657.8
20°	18490.7	18440.3	18764.8	19208.9	22743.3	23678.8	23650.5	23058.3	22201.4	22037.6
22.5°	12952.9	13047.4	13003.3	13444.3	14175.2	16755.0	16436.9	15835.2	15554.9	15372.2
25°	8520.8	8486.2	8706.7	8839.0	9465.9	9780.9	10896.0	10672.3	10240.8	10288.0
27.5°	5194.4	5238.5	5320.4	5433.8	5878.0	5777.2	6413.5	6498.5	6359.9	6211.9
30°	3187.8	3219.3	3285.5	3367.4	3521.7	3411.5	3587.9	3893.4	3843.0	3739.1
32.5°	2164.1	2167.2	2214.5	2246.0	2227.1	2123.1	2179.8	2469.6	2475.9	2466.5
35°	1556.1	1556.1	1600.2	1625.4	1571.9	1486.8	1496.3	1675.8	1754.6	1770.3
37.5°	1074.2	1077.3	1152.9	1228.5	1168.7	1146.6	1108.8	1228.5	1354.5	1373.4
40°	815.9	812.7	850.5	907.2	913.5	872.6	885.2	960.8	1089.9	1105.7
42.5°	661.5	664.7	683.6	677.3	680.4	734.0	752.9	787.5	907.2	935.6
45°	557.6	560.7	570.2	538.7	526.1	608.0	633.2	652.1	752.9	787.5
47.5°	459.9	466.2	475.7	441.0	434.7	488.3	532.4	551.3	639.5	677.3
50°	330.8	337.1	371.7	352.8	371.7	384.3	444.2	472.5	532.4	582.8
52.5°	239.4	245.7	255.2	258.3	305.6	311.9	356.0	400.1	428.4	485.1
55°	189.0	195.3	189.0	182.7	223.7	258.3	274.1	321.3	343.4	409.5
57.5°	107.1	113.4	122.9	141.8	148.1	198.5	214.2	255.2	274.1	337.1
60°	18.9	22.1	34.7	85.1	104.0	126.0	160.7	195.3	220.5	264.6
62.5°	3.2	3.2	6.3	18.9	59.9	88.2	116.6	138.6	160.7	201.6
65°	0.0	0.0	3.2	6.3	15.8	50.4	63.0	81.9	110.3	144.9
67.5°	0.0	0.0	3.2	6.3	9.5	18.9	28.4	50.4	63.0	97.7
70°	0.0	0.0	3.2	6.3	9.5	12.6	15.8	22.1	37.8	59.9
72.5°	0.0	0.0	3.2	6.3	9.5	12.6	15.8	18.9	18.9	37.8
75°	0.0	0.0	3.2	6.3	9.5	15.8	18.9	18.9	15.8	15.8
77.5°	0.0	0.0	3.2	6.3	12.6	18.9	22.1	18.9	12.6	12.6
80°	0.0	0.0	6.3	9.5	15.8	22.1	28.4	22.1	12.6	6.3
82.5°	0.0	0.0	6.3	12.6	15.8	25.2	34.7	28.4	12.6	6.3
85°	0.0	0.0	3.2	9.5	18.9	25.2	34.7	25.2	12.6	3.2
87.5°	0.0	0.0	3.2	3.2	6.3	9.5	18.9	15.8	6.3	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°
98835.5	0°	98835.5	98835.5	98835.5	98835.5	98835.5	98835.5	98835.5	98835.5	98835.5
96469.8	2.5°	97024.2	97528.2	97632.2	97493.6	97695.2	97332.9	97055.7	96337.5	95906.0
90352.4	5°	90935.2	90859.6	91385.7	91558.9	91536.9	91259.7	90872.2	90437.5	90015.4
80914.9	7.5°	81418.9	81516.6	81995.4	82301.0	82146.6	81800.1	81532.3	81204.7	80921.2
70652.1	10°	71297.9	70626.9	71222.3	71222.3	71634.9	70655.3	70746.6	69921.3	69959.1
58858.4	12.5°	59060.0	59302.6	59400.2	59680.6	59198.6	58678.8	58042.5	57916.5	57522.8
43990.2	15°	44623.4	45316.4	44721.0	45738.5	45247.1	44705.3	44607.6	43631.1	43939.8
31906.7	17.5°	31749.2	32514.7	32754.1	33336.8	32889.5	32568.2	32161.9	31865.8	31843.7
22336.9	20°	22513.3	23281.9	23458.3	24157.6	24107.2	24006.4	23663.1	23288.2	22881.9
15205.2	22.5°	15435.2	16062.0	16647.9	17589.8	17574.0	17277.9	17243.3	16714.1	16723.5
10272.3	25°	10379.4	10836.1	10974.7	11938.6	12045.7	12014.2	11834.7	11343.3	11529.1
6274.9	27.5°	6281.2	6681.2	7150.6	7490.8	7812.1	7761.7	7582.1	7308.1	7188.4
3770.6	30°	3871.4	4050.9	4224.2	4633.7	4825.9	4926.7	4841.6	4586.5	4605.4
2482.2	32.5°	2535.8	2687.0	2813.0	3071.3	3172.1	3357.9	3323.3	3269.7	3206.7
1786.1	35°	1849.1	1959.3	2044.4	2164.1	2293.2	2450.7	2475.9	2453.9	2428.7
1379.7	37.5°	1411.2	1524.6	1622.3	1672.7	1773.5	1896.3	1965.6	1962.5	1943.6
1124.6	40°	1146.6	1231.7	1319.9	1386.0	1455.3	1546.7	1631.7	1641.2	1641.2
945.0	42.5°	957.6	1030.1	1118.3	1187.6	1238.0	1323.0	1411.2	1417.5	1411.2
800.1	45°	819.0	882.0	967.1	1049.0	1089.9	1152.9	1238.0	1256.9	1244.3
686.7	47.5°	711.9	768.6	841.1	929.3	973.4	1030.1	1108.8	1130.9	1127.7
592.2	50°	611.1	677.3	749.7	822.2	878.9	932.4	1008.0	1033.2	1023.8
504.0	52.5°	538.7	598.5	661.5	740.3	806.4	853.7	913.5	957.6	945.0
425.3	55°	450.5	522.9	589.1	655.2	737.1	787.5	844.2	897.8	885.2
359.1	57.5°	390.6	450.5	526.1	585.9	667.8	727.7	784.4	841.1	837.9
293.0	60°	327.6	390.6	463.1	526.1	601.7	667.8	724.5	787.5	793.8
220.5	62.5°	258.3	333.9	396.9	469.4	545.0	617.4	667.8	730.8	740.3
167.0	65°	195.3	274.1	343.4	412.7	488.3	567.0	611.1	664.7	674.1
122.9	67.5°	144.9	211.1	293.0	356.0	434.7	510.3	551.3	595.4	611.1
75.6	70°	110.3	160.7	245.7	305.6	387.5	447.3	491.4	529.2	541.8
50.4	72.5°	69.3	126.0	198.5	261.5	333.9	387.5	419.0	441.0	459.9
28.4	75°	47.3	97.7	160.7	223.7	277.2	318.2	346.5	365.4	381.2
12.6	77.5°	28.4	75.6	132.3	185.9	220.5	252.0	280.4	293.0	302.4
9.5	80°	15.8	56.7	110.3	151.2	173.3	195.3	217.4	233.1	239.4
6.3	82.5°	9.5	44.1	88.2	116.6	126.0	148.1	170.1	179.6	179.6
3.2	85°	6.3	31.5	59.9	85.1	91.4	107.1	113.4	119.7	126.0
3.2	87.5°	6.3	18.9	37.8	47.3	50.4	56.7	59.9	66.2	72.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
98835.5
95587.8
89542.9
79960.5
69590.6
57163.7
43631.1
31257.8
22705.4
16540.8
11236.2
7084.4
4523.4
3184.7
2419.2
1934.1
1622.3
1404.9
1244.3
1121.4
1017.5
941.9
891.5
841.1
797.0
746.6
683.6
617.4
548.1
456.8
378.0
299.3
233.1
176.4
122.9
69.3
0.0

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