

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: P637358

Luminaire Tested: **IFLD-S-SA6C-735-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637358
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-735-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (96) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39527 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

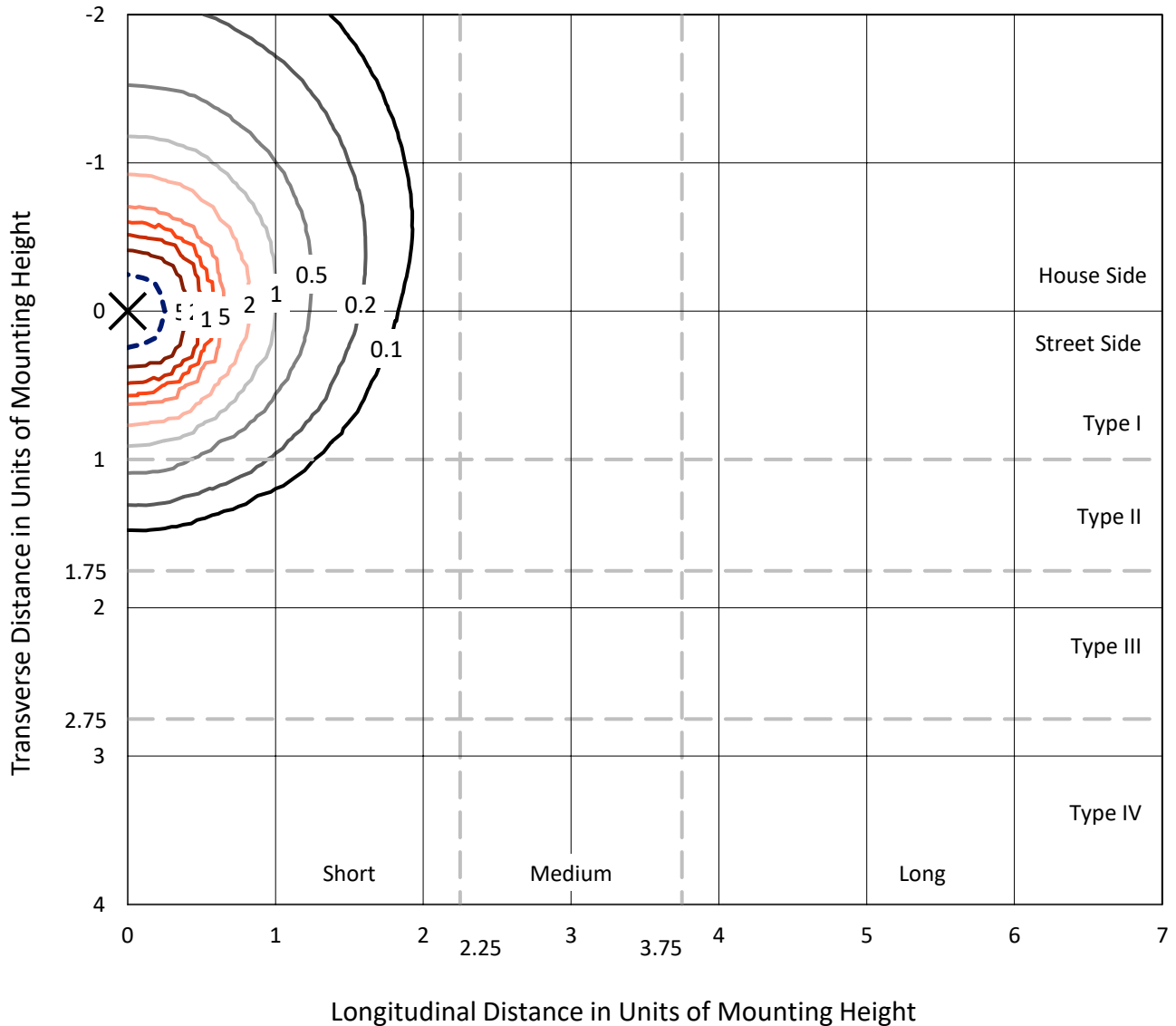
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

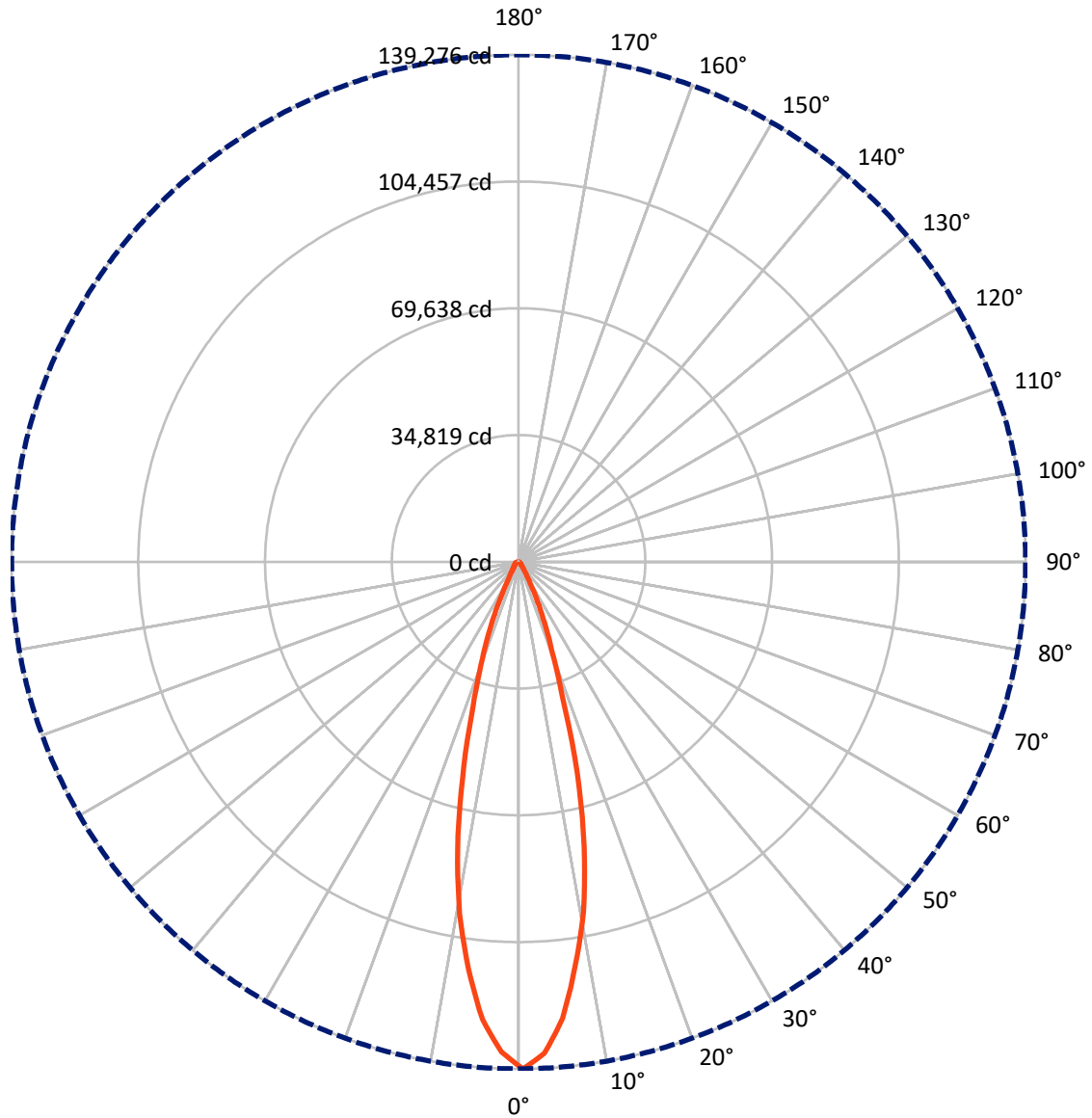
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 348.2 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	20841.3	0.0	20841.3
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	18685.7	0.0	18685.7
	% Fixture	47.3	0.0	47.3
Total	Lumens	39527.0	0.0	39527.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11240.8	28.4
10°-20°	17024.1	43.1
20°-30°	7184.3	18.2
30°-40°	1873.7	4.7
40°-50°	947.7	2.4
50°-60°	619.5	1.6
60°-70°	371.1	0.9
70°-80°	195.2	0.5
80°-90°	70.5	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°	39527.0	100.0
0°-180°	39527.0	100.0

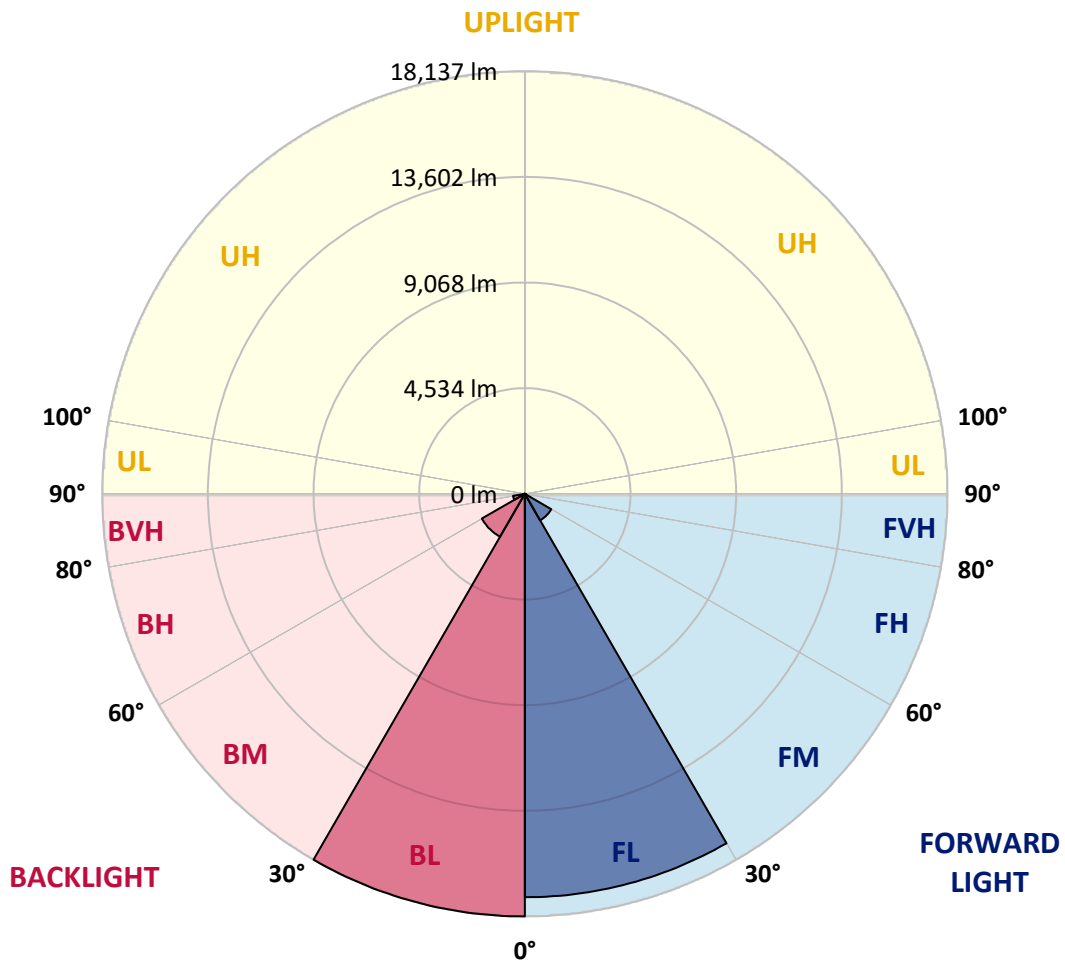


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	17312.6	43.8			
FM (30°-60°)	1311.1	3.3			
FH (60°-80°)	53.4	0.1			G0/660
FVH (80°-90°)	8.6	0.0			G0/10
BL (0°-30°)	18136.6	45.9	B5		
BM (30°-60°)	2129.8	5.4	B2/2500		
BH (60°-80°)	512.9	1.3	B2/1000		G0/660
BVH (80°-90°)	61.9	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°	139276.0	139276.0	139276.0	139276.0	139276.0	139276.0	139276.0	139276.0	139276.0	139276.0
2.5°	135218.8	135294.3	135014.6	135618.3	135147.8	136408.4	135782.5	136759.1	136430.6	136976.6
5°	125985.8	125861.5	125781.6	126718.2	126447.5	127801.3	126935.8	126651.7	127530.6	127370.8
7.5°	112043.1	112371.6	112185.2	112429.3	112566.9	114111.7	114600.0	114218.2	114231.5	114453.5
10°	97749.8	97265.9	96577.9	97035.1	98002.8	98677.5	98406.7	98966.0	98841.7	99370.0
12.5°	80162.7	80544.5	80158.3	79749.9	81441.1	81254.7	81725.2	82031.5	81263.6	82972.6
15°	60382.8	60582.6	61053.1	61022.0	62322.6	62584.5	62522.4	62846.4	62247.2	62531.3
17.5°	38791.8	39466.6	40731.7	42871.2	45277.1	45556.8	45485.8	45219.4	44930.9	44611.3
20°	26056.5	25985.5	26442.7	27068.6	32049.1	33367.5	33327.5	32493.0	31285.6	31054.8
22.5°	18252.9	18386.1	18323.9	18945.4	19975.2	23610.7	23162.4	22314.5	21919.5	21662.0
25°	12007.3	11958.5	12269.2	12455.6	13339.0	13782.9	15354.3	15039.1	14431.0	14497.6
27.5°	7319.8	7381.9	7497.4	7657.2	8283.1	8141.0	9037.7	9157.5	8962.2	8753.6
30°	4492.2	4536.6	4629.8	4745.2	4962.7	4807.4	5055.9	5486.5	5415.5	5269.0
32.5°	3049.5	3054.0	3120.6	3165.0	3138.3	2991.8	3071.7	3480.1	3489.0	3475.7
35°	2192.8	2192.8	2255.0	2290.5	2215.0	2095.2	2108.5	2361.5	2472.5	2494.7
37.5°	1513.7	1518.1	1624.6	1731.2	1646.8	1615.8	1562.5	1731.2	1908.7	1935.4
40°	1149.7	1145.2	1198.5	1278.4	1287.3	1229.6	1247.3	1353.9	1535.9	1558.1
42.5°	932.2	936.6	963.2	954.4	958.8	1034.3	1060.9	1109.7	1278.4	1318.4
45°	785.7	790.1	803.4	759.1	741.3	856.7	892.2	918.9	1060.9	1109.7
47.5°	648.1	657.0	670.3	621.5	612.6	688.0	750.2	776.8	901.1	954.4
50°	466.1	475.0	523.8	497.2	523.8	541.5	625.9	665.8	750.2	821.2
52.5°	337.4	346.2	359.6	364.0	430.6	439.5	501.6	563.7	603.7	683.6
55°	266.3	275.2	266.3	257.5	315.2	364.0	386.2	452.8	483.8	577.1
57.5°	150.9	159.8	173.1	199.8	208.6	279.7	301.8	359.6	386.2	475.0
60°	26.6	31.1	48.8	119.9	146.5	177.6	226.4	275.2	310.7	372.9
62.5°	4.4	4.4	8.9	26.6	84.3	124.3	164.2	195.3	226.4	284.1
65°	0.0	0.0	4.4	8.9	22.2	71.0	88.8	115.4	155.4	204.2
67.5°	0.0	0.0	4.4	8.9	13.3	26.6	40.0	71.0	88.8	137.6
70°	0.0	0.0	4.4	8.9	13.3	17.8	22.2	31.1	53.3	84.3
72.5°	0.0	0.0	4.4	8.9	13.3	17.8	22.2	26.6	26.6	53.3
75°	0.0	0.0	4.4	8.9	13.3	22.2	26.6	26.6	22.2	22.2
77.5°	0.0	0.0	4.4	8.9	17.8	26.6	31.1	26.6	17.8	17.8
80°	0.0	0.0	8.9	13.3	22.2	31.1	40.0	31.1	17.8	8.9
82.5°	0.0	0.0	8.9	17.8	22.2	35.5	48.8	40.0	17.8	8.9
85°	0.0	0.0	4.4	13.3	26.6	35.5	48.8	35.5	17.8	4.4
87.5°	0.0	0.0	4.4	4.4	8.9	13.3	26.6	22.2	8.9	4.4
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°
139276.0	0°	139276.0	139276.0	139276.0	139276.0	139276.0	139276.0	139276.0	139276.0	139276.0
135942.4	2.5°	136723.6	137433.8	137580.3	137385.0	137669.1	137158.6	136768.0	135755.9	135147.8
127321.9	5°	128143.1	128036.6	128777.9	129022.1	128991.0	128600.4	128054.4	127441.8	126847.0
114022.9	7.5°	114733.1	114870.7	115545.4	115976.0	115758.5	115270.2	114892.9	114431.3	114031.8
99560.8	10°	100470.8	99525.3	100364.3	100364.3	100945.8	99565.3	99694.0	98531.0	98584.3
82941.5	12.5°	83225.6	83567.4	83705.0	84100.0	83420.9	82688.5	81791.8	81614.2	81059.4
61989.7	15°	62881.9	63858.5	63019.5	64453.3	63760.8	62997.4	62859.7	61483.7	61918.7
44962.0	17.5°	44740.0	45818.7	46156.0	46977.2	46346.9	45894.1	45321.5	44904.3	44873.2
31476.5	20°	31725.1	32808.2	33056.7	34042.2	33971.2	33829.1	33345.3	32817.0	32244.4
21426.7	22.5°	21750.8	22634.1	23459.8	24787.0	24764.8	24347.6	24298.7	23553.0	23566.3
14475.4	25°	14626.3	15269.9	15465.2	16823.6	16974.5	16930.1	16677.1	15984.6	16246.5
8842.4	27.5°	8851.2	9415.0	10076.4	10555.8	11008.6	10937.5	10684.5	10298.3	10129.6
5313.4	30°	5455.4	5708.5	5952.6	6529.7	6800.4	6942.5	6822.6	6463.1	6489.7
3497.9	32.5°	3573.3	3786.4	3964.0	4328.0	4470.0	4731.9	4683.1	4607.6	4518.8
2516.9	35°	2605.7	2761.0	2880.9	3049.5	3231.5	3453.5	3489.0	3457.9	3422.4
1944.3	37.5°	1988.6	2148.4	2286.1	2357.1	2499.1	2672.2	2769.9	2765.5	2738.8
1584.7	40°	1615.8	1735.6	1859.9	1953.1	2050.8	2179.5	2299.4	2312.7	2312.7
1331.7	42.5°	1349.4	1451.5	1575.8	1673.5	1744.5	1864.4	1988.6	1997.5	1988.6
1127.5	45°	1154.1	1242.9	1362.8	1478.2	1535.9	1624.6	1744.5	1771.1	1753.4
967.7	47.5°	1003.2	1083.1	1185.2	1309.5	1371.6	1451.5	1562.5	1593.6	1589.1
834.5	50°	861.2	954.4	1056.5	1158.6	1238.5	1313.9	1420.5	1456.0	1442.7
710.2	52.5°	759.1	843.4	932.2	1043.1	1136.4	1203.0	1287.3	1349.4	1331.7
599.3	55°	634.8	736.9	830.1	923.3	1038.7	1109.7	1189.6	1265.1	1247.3
506.0	57.5°	550.4	634.8	741.3	825.6	941.1	1025.4	1105.3	1185.2	1180.8
412.8	60°	461.6	550.4	652.5	741.3	847.8	941.1	1021.0	1109.7	1118.6
310.7	62.5°	364.0	470.5	559.3	661.4	767.9	870.0	941.1	1029.8	1043.1
235.3	65°	275.2	386.2	483.8	581.5	688.0	799.0	861.2	936.6	949.9
173.1	67.5°	204.2	297.4	412.8	501.6	612.6	719.1	776.8	839.0	861.2
106.5	70°	155.4	226.4	346.2	430.6	546.0	630.3	692.5	745.7	763.5
71.0	72.5°	97.7	177.6	279.7	368.4	470.5	546.0	590.4	621.5	648.1
40.0	75°	66.6	137.6	226.4	315.2	390.6	448.3	488.3	514.9	537.1
17.8	77.5°	40.0	106.5	186.4	261.9	310.7	355.1	395.1	412.8	426.1
13.3	80°	22.2	79.9	155.4	213.1	244.1	275.2	306.3	328.5	337.4
8.9	82.5°	13.3	62.1	124.3	164.2	177.6	208.6	239.7	253.0	253.0
4.4	85°	8.9	44.4	84.3	119.9	128.7	150.9	159.8	168.7	177.6
4.4	87.5°	8.9	26.6	53.3	66.6	71.0	79.9	84.3	93.2	102.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
139276.0
134699.4
126181.1
112677.9
98064.9
80553.3
61483.7
44047.5
31995.8
23308.8
15833.7
9983.2
6374.3
4487.8
3409.1
2725.5
2286.1
1979.8
1753.4
1580.3
1433.8
1327.2
1256.2
1185.2
1123.1
1052.0
963.2
870.0
772.4
643.6
532.7
421.7
328.5
248.6
173.1
97.7
0.0

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