

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: P637301

Luminaire Tested: **IFLD-S-SA6D-727-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637301
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-727-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (96) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36879.1 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

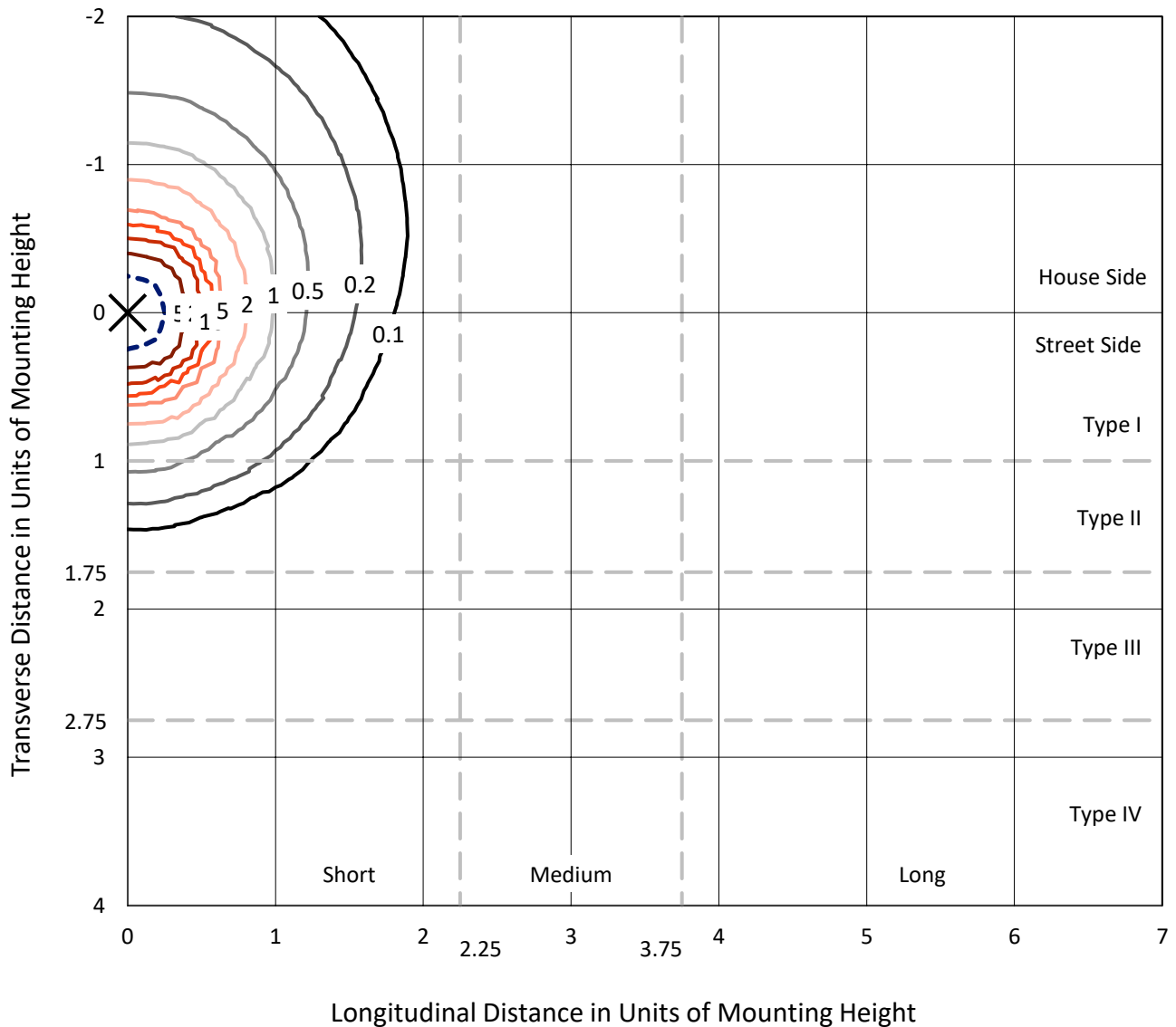
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

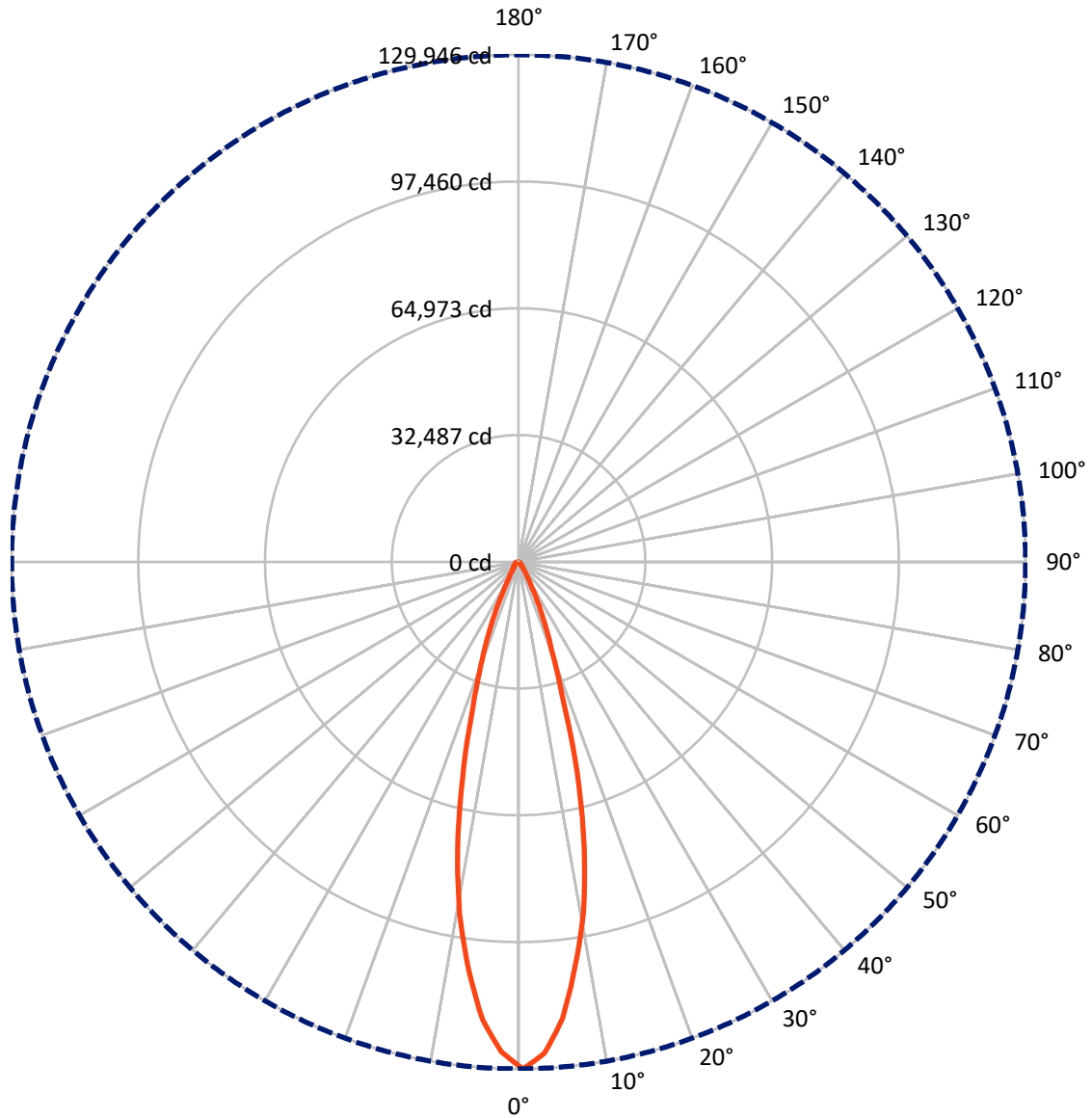
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 324.9 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	19445.1	0.0	19445.1
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	17433.9	0.0	17433.9
	% Fixture	47.3	0.0	47.3
Total	Lumens	36879.1	0.0	36879.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10487.8	28.4
10°-20°	15883.7	43.1
20°-30°	6703.0	18.2
30°-40°	1748.2	4.7
40°-50°	884.2	2.4
50°-60°	578.0	1.6
60°-70°	346.3	0.9
70°-80°	182.2	0.5
80°-90°	65.8	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°	36879.1	100.0
0°-180°	36879.1	100.0

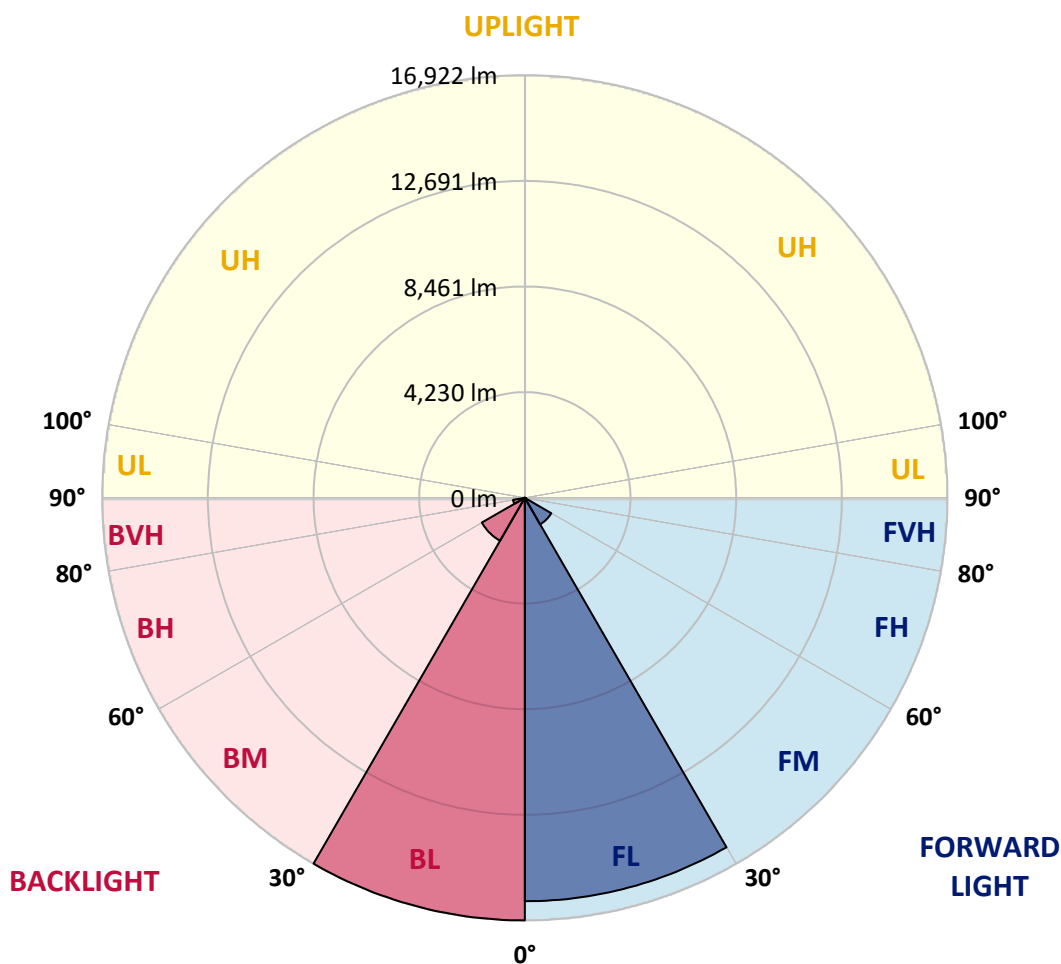


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	16152.8	43.8			
FM (30°-60°)	1223.3	3.3			
FH (60°-80°)	49.8	0.1			G0/660
FVH (80°-90°)	8.0	0.0			G0/10
BL (0°-30°)	16921.7	45.9	B5		
BM (30°-60°)	1987.1	5.4	B2/2500		
BH (60°-80°)	478.6	1.3	B1/500		G0/660
BVH (80°-90°)	57.8	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°	129946.0	129946.0	129946.0	129946.0	129946.0	129946.0	129946.0	129946.0	129946.0	129946.0
2.5°	126160.6	126231.0	125970.1	126533.4	126094.3	127270.6	126686.6	127597.7	127291.3	127800.7
5°	117546.1	117430.2	117355.6	118229.5	117976.9	119240.0	118432.4	118167.4	118987.4	118838.3
7.5°	104537.5	104843.9	104670.0	104897.8	105026.2	106467.4	106923.0	106566.8	106579.3	106786.3
10°	91201.6	90750.2	90108.2	90534.8	91437.7	92067.2	91814.5	92336.4	92220.4	92713.3
12.5°	74792.7	75148.9	74788.5	74407.5	75985.5	75811.5	76250.5	76536.3	75819.8	77414.3
15°	56337.8	56524.2	56963.2	56934.2	58147.7	58392.0	58334.1	58636.4	58077.3	58342.3
17.5°	36193.2	36822.7	38003.1	39999.3	42244.1	42505.0	42438.7	42190.2	41921.0	41622.8
20°	24311.0	24244.8	24671.4	25255.3	29902.2	31132.2	31094.9	30316.3	29189.8	28974.4
22.5°	17030.2	17154.4	17096.4	17676.2	18637.1	22029.0	21610.7	20819.7	20451.1	20210.9
25°	11203.0	11157.4	11447.3	11621.3	12445.4	12859.6	14325.7	14031.7	13464.3	13526.4
27.5°	6829.5	6887.4	6995.1	7144.2	7728.2	7595.6	8432.2	8544.1	8361.8	8167.2
30°	4191.3	4232.7	4319.7	4427.3	4630.3	4485.3	4717.3	5119.0	5052.7	4916.0
32.5°	2845.3	2849.4	2911.5	2952.9	2928.1	2791.4	2866.0	3247.0	3255.3	3242.9
35°	2045.9	2045.9	2103.9	2137.1	2066.6	1954.8	1967.2	2203.3	2306.9	2327.6
37.5°	1412.3	1416.4	1515.8	1615.2	1536.5	1507.5	1457.8	1615.2	1780.9	1805.7
40°	1072.7	1068.5	1118.2	1192.8	1201.1	1147.2	1163.8	1263.2	1433.0	1453.7
42.5°	869.7	873.9	898.7	890.4	894.6	965.0	989.8	1035.4	1192.8	1230.0
45°	733.1	737.2	749.6	708.2	691.6	799.3	832.5	857.3	989.8	1035.4
47.5°	604.7	613.0	625.4	579.8	571.5	641.9	699.9	724.8	840.7	890.4
50°	434.9	443.1	488.7	463.9	488.7	505.3	584.0	621.2	699.9	766.2
52.5°	314.8	323.0	335.5	339.6	401.7	410.0	468.0	526.0	563.3	637.8
55°	248.5	256.8	248.5	240.2	294.1	339.6	360.3	422.4	451.4	538.4
57.5°	140.8	149.1	161.5	186.4	194.7	260.9	281.6	335.5	360.3	443.1
60°	24.8	29.0	45.6	111.8	136.7	165.7	211.2	256.8	289.9	347.9
62.5°	4.1	4.1	8.3	24.8	78.7	116.0	153.2	182.2	211.2	265.1
65°	0.0	0.0	4.1	8.3	20.7	66.3	82.8	107.7	145.0	190.5
67.5°	0.0	0.0	4.1	8.3	12.4	24.8	37.3	66.3	82.8	128.4
70°	0.0	0.0	4.1	8.3	12.4	16.6	20.7	29.0	49.7	78.7
72.5°	0.0	0.0	4.1	8.3	12.4	16.6	20.7	24.8	24.8	49.7
75°	0.0	0.0	4.1	8.3	12.4	20.7	24.8	24.8	20.7	20.7
77.5°	0.0	0.0	4.1	8.3	16.6	24.8	29.0	24.8	16.6	16.6
80°	0.0	0.0	8.3	12.4	20.7	29.0	37.3	29.0	16.6	8.3
82.5°	0.0	0.0	8.3	16.6	20.7	33.1	45.6	37.3	16.6	8.3
85°	0.0	0.0	4.1	12.4	24.8	33.1	45.6	33.1	16.6	4.1
87.5°	0.0	0.0	4.1	4.1	8.3	12.4	24.8	20.7	8.3	4.1
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°
129946.0	0°	129946.0	129946.0	129946.0	129946.0	129946.0	129946.0	129946.0	129946.0	129946.0
126835.7	2.5°	127564.6	128227.3	128363.9	128181.7	128446.8	127970.5	127606.0	126661.7	126094.3
118792.8	5°	119558.9	119459.5	120151.2	120379.0	120350.0	119985.5	119476.1	118904.6	118349.6
106384.6	7.5°	107047.3	107175.6	107805.2	108206.9	108004.0	107548.4	107196.3	106765.6	106392.9
92891.4	10°	93740.4	92858.2	93641.0	93641.0	94183.5	92895.5	93015.6	91930.5	91980.2
77385.3	12.5°	77650.4	77969.3	78097.7	78466.3	77832.6	77149.2	76312.6	76147.0	75629.3
57837.1	15°	58669.5	59580.7	58797.9	60135.6	59489.6	58777.2	58648.8	57364.9	57770.8
41950.0	17.5°	41742.9	42749.3	43064.1	43830.3	43242.2	42819.7	42285.5	41896.2	41867.2
29367.9	20°	29599.8	30610.4	30842.3	31761.7	31695.5	31562.9	31111.5	30618.7	30084.4
19991.4	22.5°	20293.7	21117.9	21888.2	23126.5	23105.8	22716.5	22671.0	21975.2	21987.6
13505.7	25°	13646.5	14247.0	14429.2	15696.6	15837.4	15796.0	15559.9	14913.8	15158.2
8250.0	27.5°	8258.3	8784.3	9401.4	9848.7	10271.1	10204.8	9968.8	9608.5	9451.1
4957.5	30°	5090.0	5326.1	5553.9	6092.3	6344.9	6477.4	6365.6	6030.1	6055.0
3263.6	32.5°	3334.0	3532.8	3698.4	4038.0	4170.6	4414.9	4369.4	4299.0	4216.1
2348.3	35°	2431.1	2576.1	2687.9	2845.3	3015.1	3222.1	3255.3	3226.3	3193.2
1814.0	37.5°	1855.4	2004.5	2132.9	2199.2	2331.7	2493.2	2584.3	2580.2	2555.4
1478.5	40°	1507.5	1619.4	1735.3	1822.3	1913.4	2033.5	2145.3	2157.8	2157.8
1242.5	42.5°	1259.0	1354.3	1470.3	1561.4	1627.6	1739.5	1855.4	1863.7	1855.4
1052.0	45°	1076.8	1159.6	1271.5	1379.1	1433.0	1515.8	1627.6	1652.5	1635.9
902.9	47.5°	936.0	1010.5	1105.8	1221.8	1279.7	1354.3	1457.8	1486.8	1482.7
778.6	50°	803.5	890.4	985.7	1081.0	1155.5	1225.9	1325.3	1358.4	1346.0
662.7	52.5°	708.2	786.9	869.7	973.3	1060.2	1122.4	1201.1	1259.0	1242.5
559.1	55°	592.2	687.5	774.5	861.4	969.1	1035.4	1109.9	1180.3	1163.8
472.1	57.5°	513.6	592.2	691.6	770.3	878.0	956.7	1031.3	1105.8	1101.7
385.2	60°	430.7	513.6	608.8	691.6	791.0	878.0	952.6	1035.4	1043.7
289.9	62.5°	339.6	439.0	521.8	617.1	716.5	811.7	878.0	960.8	973.3
219.5	65°	256.8	360.3	451.4	542.5	641.9	745.5	803.5	873.9	886.3
161.5	67.5°	190.5	277.5	385.2	468.0	571.5	670.9	724.8	782.8	803.5
99.4	70°	145.0	211.2	323.0	401.7	509.4	588.1	646.1	695.8	712.4
66.3	72.5°	91.1	165.7	260.9	343.8	439.0	509.4	550.8	579.8	604.7
37.3	75°	62.1	128.4	211.2	294.1	364.5	418.3	455.6	480.4	501.1
16.6	77.5°	37.3	99.4	173.9	244.4	289.9	331.3	368.6	385.2	397.6
12.4	80°	20.7	74.5	145.0	198.8	227.8	256.8	285.8	306.5	314.8
8.3	82.5°	12.4	58.0	116.0	153.2	165.7	194.7	223.6	236.1	236.1
4.1	85°	8.3	41.4	78.7	111.8	120.1	140.8	149.1	157.4	165.7
4.1	87.5°	8.3	24.8	49.7	62.1	66.3	74.5	78.7	87.0	95.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
129946.0
125676.1
117728.4
105129.7
91495.6
75157.1
57364.9
41096.8
29852.5
21747.4
14773.0
9314.4
5947.3
4187.1
3180.7
2542.9
2132.9
1847.1
1635.9
1474.4
1337.7
1238.3
1172.1
1105.8
1047.8
981.6
898.7
811.7
720.6
600.5
497.0
393.4
306.5
231.9
161.5
91.1
0.0

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