

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: P637357

Luminaire Tested: **IFLD-S-SA6B-735-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637357
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-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: 31753.1 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

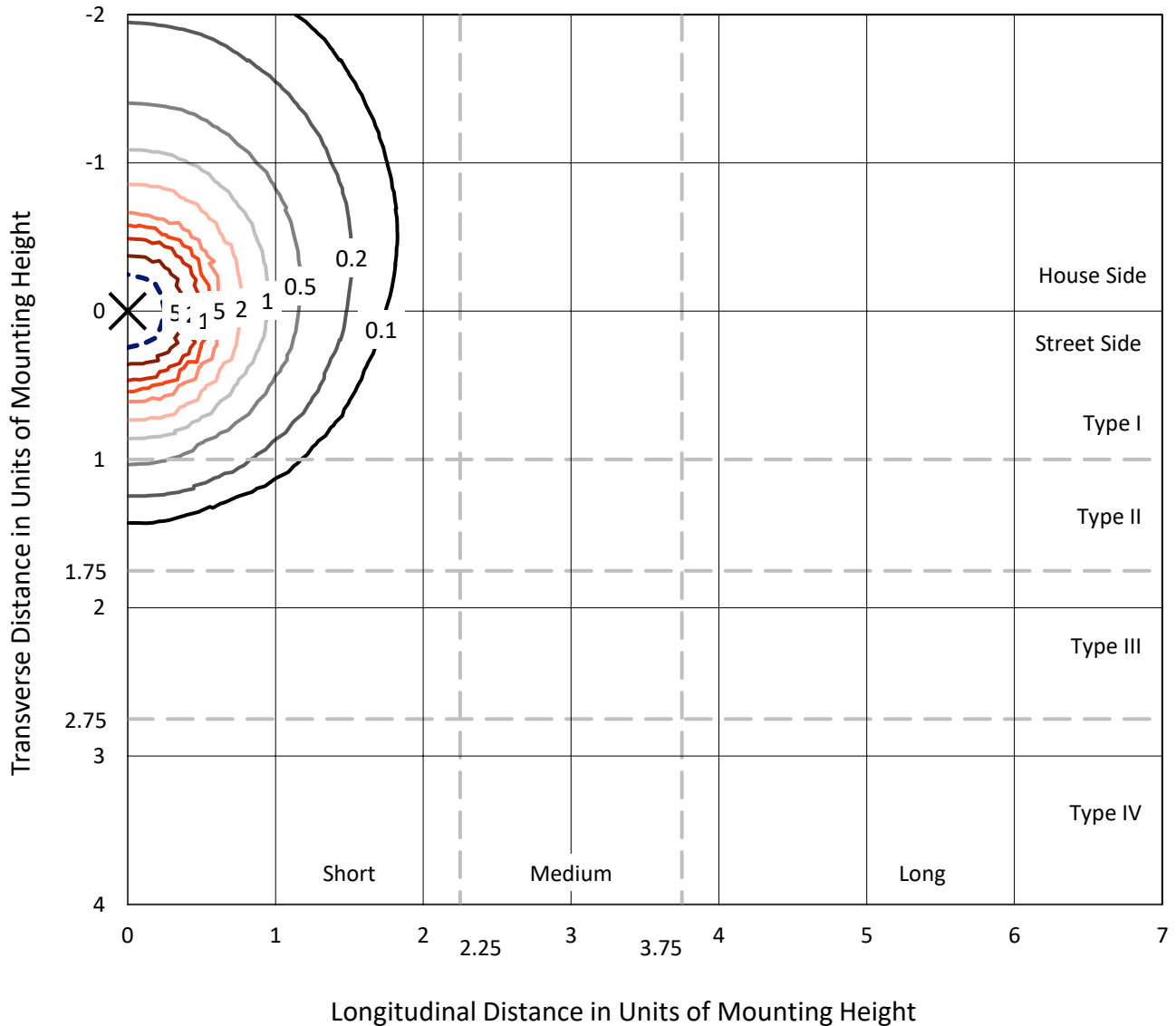
Input Watts (W): 244.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

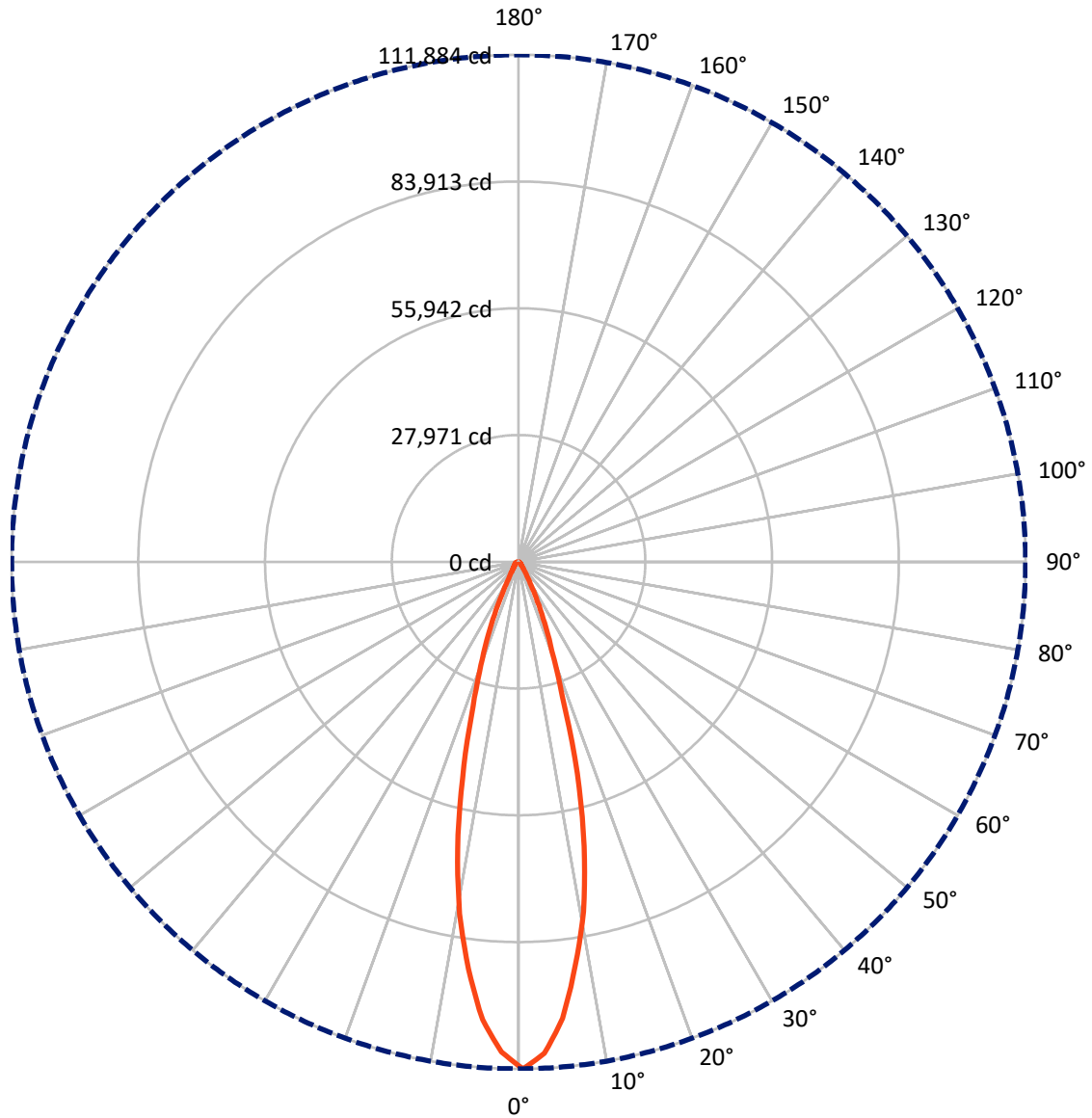
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 279.7 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	16742.4	0.0	16742.4
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	15010.7	0.0	15010.7
	% Fixture	47.3	0.0	47.3
Total	Lumens	31753.1	0.0	31753.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9030.0	28.4
10°-20°	13675.9	43.1
20°-30°	5771.3	18.2
30°-40°	1505.2	4.7
40°-50°	761.3	2.4
50°-60°	497.6	1.6
60°-70°	298.1	0.9
70°-80°	156.8	0.5
80°-90°	56.7	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°	31753.1	100.0
0°-180°	31753.1	100.0

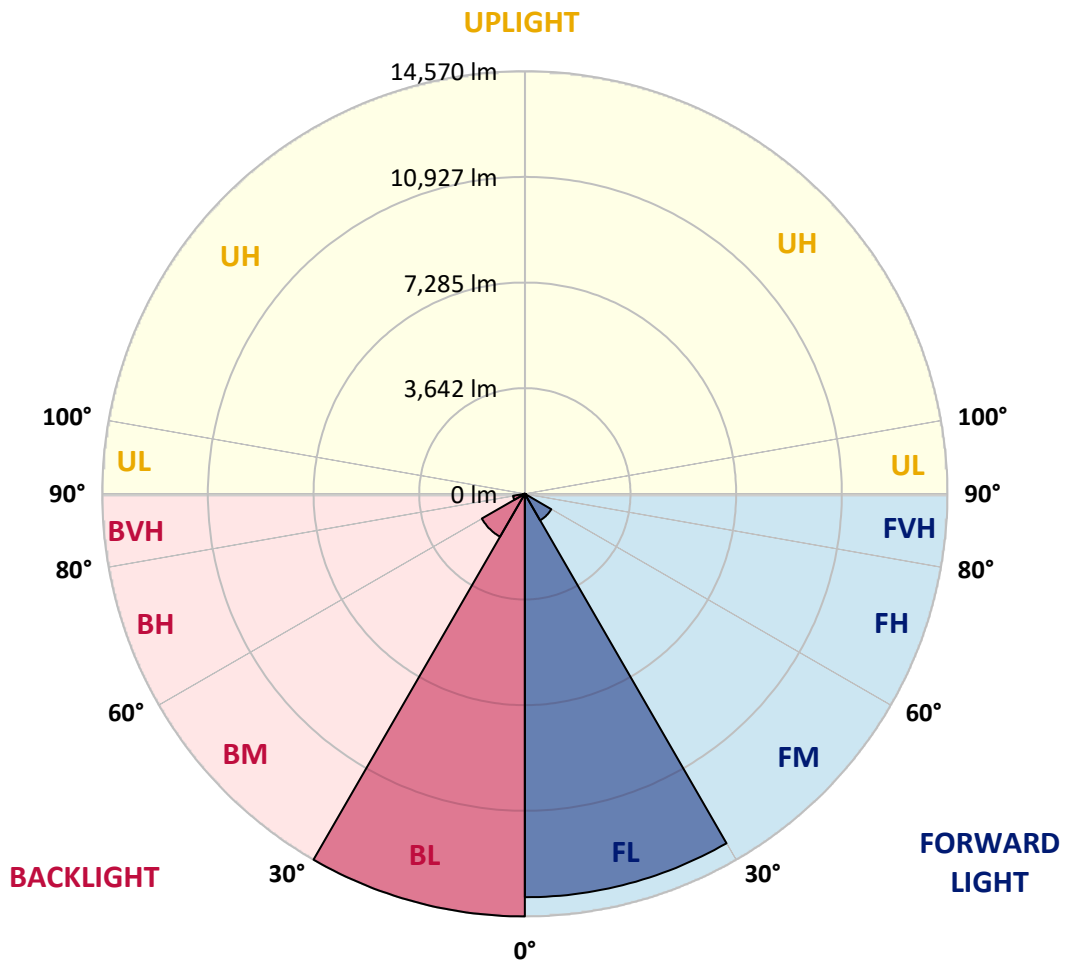


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	13907.6	43.8			
FM (30°-60°)	1053.3	3.3			
FH (60°-80°)	42.9	0.1			G0/660
FVH (80°-90°)	6.9	0.0			G0/10
BL (0°-30°)	14569.6	45.9	B5		
BM (30°-60°)	1710.9	5.4	B2/2500		
BH (60°-80°)	412.1	1.3	B1/500		G0/660
BVH (80°-90°)	49.8	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°	111884.1	111884.1	111884.1	111884.1	111884.1	111884.1	111884.1	111884.1	111884.1	111884.1
2.5°	108624.8	108685.5	108460.8	108945.8	108567.8	109580.5	109077.7	109862.2	109598.3	110036.9
5°	101207.7	101107.9	101043.7	101796.1	101578.6	102666.2	101970.8	101742.6	102448.7	102320.3
7.5°	90007.2	90271.1	90121.3	90317.4	90428.0	91668.9	92061.2	91754.5	91765.2	91943.5
10°	78525.0	78136.3	77583.6	77950.9	78728.2	79270.2	79052.7	79502.0	79402.2	79826.5
12.5°	64396.8	64703.5	64393.3	64065.2	65423.8	65274.0	65652.0	65898.1	65281.2	66654.0
15°	48507.1	48667.6	49045.6	49020.6	50065.4	50275.8	50225.9	50486.2	50004.8	50233.0
17.5°	31162.5	31704.5	32720.8	34439.6	36372.3	36597.0	36539.9	36326.0	36094.2	35837.4
20°	20931.9	20874.9	21242.1	21744.9	25745.9	26805.0	26772.9	26102.5	25132.6	24947.1
22.5°	14663.0	14770.0	14720.1	15219.3	16046.6	18967.1	18606.9	17925.8	17608.5	17401.7
25°	9645.8	9606.6	9856.2	10006.0	10715.6	11072.2	12334.5	12081.3	11592.8	11646.3
27.5°	5880.2	5930.1	6022.8	6151.2	6654.0	6539.9	7260.2	7356.5	7199.6	7032.0
30°	3608.7	3644.4	3719.2	3812.0	3986.7	3861.9	4061.6	4407.5	4350.4	4232.7
32.5°	2449.8	2453.3	2506.8	2542.5	2521.1	2403.4	2467.6	2795.7	2802.8	2792.1
35°	1761.6	1761.6	1811.5	1840.0	1779.4	1683.1	1693.8	1897.1	1986.2	2004.0
37.5°	1216.0	1219.5	1305.1	1390.7	1323.0	1298.0	1255.2	1390.7	1533.3	1554.7
40°	923.6	920.0	962.8	1027.0	1034.1	987.8	1002.0	1087.6	1233.8	1251.6
42.5°	748.8	752.4	773.8	766.7	770.2	830.9	852.3	891.5	1027.0	1059.1
45°	631.2	634.7	645.4	609.8	595.5	688.2	716.7	738.1	852.3	891.5
47.5°	520.6	527.8	538.5	499.2	492.1	552.7	602.6	624.0	723.9	766.7
50°	374.4	381.6	420.8	399.4	420.8	435.0	502.8	534.9	602.6	659.7
52.5°	271.0	278.1	288.8	292.4	345.9	353.0	402.9	452.9	485.0	549.2
55°	214.0	221.1	214.0	206.8	253.2	292.4	310.2	363.7	388.7	463.6
57.5°	121.2	128.4	139.1	160.5	167.6	224.7	242.5	288.8	310.2	381.6
60°	21.4	25.0	39.2	96.3	117.7	142.6	181.9	221.1	249.6	299.5
62.5°	3.6	3.6	7.1	21.4	67.8	99.8	131.9	156.9	181.9	228.2
65°	0.0	0.0	3.6	7.1	17.8	57.1	71.3	92.7	124.8	164.0
67.5°	0.0	0.0	3.6	7.1	10.7	21.4	32.1	57.1	71.3	110.5
70°	0.0	0.0	3.6	7.1	10.7	14.3	17.8	25.0	42.8	67.8
72.5°	0.0	0.0	3.6	7.1	10.7	14.3	17.8	21.4	21.4	42.8
75°	0.0	0.0	3.6	7.1	10.7	17.8	21.4	21.4	17.8	17.8
77.5°	0.0	0.0	3.6	7.1	14.3	21.4	25.0	21.4	14.3	14.3
80°	0.0	0.0	7.1	10.7	17.8	25.0	32.1	25.0	14.3	7.1
82.5°	0.0	0.0	7.1	14.3	17.8	28.5	39.2	32.1	14.3	7.1
85°	0.0	0.0	3.6	10.7	21.4	28.5	39.2	28.5	14.3	3.6
87.5°	0.0	0.0	3.6	3.6	7.1	10.7	21.4	17.8	7.1	3.6
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°
<i>111884.1</i>	0°	<i>111884.1</i>	<i>111884.1</i>	<i>111884.1</i>	<i>111884.1</i>	<i>111884.1</i>	<i>111884.1</i>	<i>111884.1</i>	<i>111884.1</i>	<i>111884.1</i>
109206.1	2.5°	109833.7	110404.2	110521.9	110365.0	110593.2	110183.1	109869.3	109056.3	108567.8
102281.1	5°	102940.8	102855.2	103450.7	103646.8	103621.9	103308.1	102869.5	102377.4	101899.5
91597.6	7.5°	92168.2	92278.7	92820.7	93166.6	92991.9	92599.6	92296.5	91925.7	91604.7
79979.9	10°	80710.9	79951.3	80625.3	80625.3	81092.4	79983.4	80086.8	79152.6	79195.4
66629.1	12.5°	66857.3	67131.9	67242.4	67559.8	67014.2	66425.8	65705.5	65562.9	65117.1
49798.0	15°	50514.7	51299.2	50625.3	51777.1	51220.8	50607.4	50496.9	49391.5	49740.9
36119.1	17.5°	35940.8	36807.4	37078.4	37738.1	37231.7	36868.0	36408.0	36072.8	36047.8
25285.9	20°	25485.6	26355.7	26555.4	27347.0	27289.9	27175.8	26787.1	26362.8	25902.8
17212.7	22.5°	17473.0	18182.6	18845.9	19912.1	19894.2	19559.0	19519.8	18920.7	18931.4
11628.4	25°	11749.7	12266.7	12423.6	13514.8	13636.1	13600.4	13397.1	12840.9	13051.2
7103.3	27.5°	7110.4	7563.3	8094.6	8479.7	8843.5	8786.4	8583.2	8272.9	8137.4
4268.4	30°	4382.5	4585.8	4781.9	5245.5	5463.0	5577.1	5480.8	5192.0	5213.4
2809.9	32.5°	2870.6	3041.7	3184.4	3476.8	3590.9	3801.3	3762.0	3701.4	3630.1
2021.9	35°	2093.2	2218.0	2314.3	2449.8	2596.0	2774.3	2802.8	2777.8	2749.3
1561.9	37.5°	1597.5	1725.9	1836.4	1893.5	2007.6	2146.7	2225.1	2221.6	2200.2
1273.0	40°	1298.0	1394.3	1494.1	1569.0	1647.5	1750.9	1847.1	1857.8	1857.8
1069.8	42.5°	1084.0	1166.1	1265.9	1344.3	1401.4	1497.7	1597.5	1604.7	1597.5
905.7	45°	927.1	998.5	1094.7	1187.4	1233.8	1305.1	1401.4	1422.8	1408.5
777.4	47.5°	805.9	870.1	952.1	1051.9	1101.9	1166.1	1255.2	1280.2	1276.6
670.4	50°	691.8	766.7	848.7	930.7	994.9	1055.5	1141.1	1169.6	1158.9
570.5	52.5°	609.8	677.5	748.8	838.0	912.9	966.4	1034.1	1084.0	1069.8
481.4	55°	509.9	591.9	666.8	741.7	834.4	891.5	955.7	1016.3	1002.0
406.5	57.5°	442.2	509.9	595.5	663.3	756.0	823.7	887.9	952.1	948.5
331.6	60°	370.9	442.2	524.2	595.5	681.1	756.0	820.2	891.5	898.6
249.6	62.5°	292.4	378.0	449.3	531.3	616.9	698.9	756.0	827.3	838.0
189.0	65°	221.1	310.2	388.7	467.1	552.7	641.9	691.8	752.4	763.1
139.1	67.5°	164.0	238.9	331.6	402.9	492.1	577.7	624.0	674.0	691.8
85.6	70°	124.8	181.9	278.1	345.9	438.6	506.4	556.3	599.1	613.3
57.1	72.5°	78.5	142.6	224.7	296.0	378.0	438.6	474.3	499.2	520.6
32.1	75°	53.5	110.5	181.9	253.2	313.8	360.2	392.3	413.6	431.5
14.3	77.5°	32.1	85.6	149.8	210.4	249.6	285.3	317.4	331.6	342.3
10.7	80°	17.8	64.2	124.8	171.2	196.1	221.1	246.0	263.9	271.0
7.1	82.5°	10.7	49.9	99.8	131.9	142.6	167.6	192.6	203.3	203.3
3.6	85°	7.1	35.7	67.8	96.3	103.4	121.2	128.4	135.5	142.6
3.6	87.5°	7.1	21.4	42.8	53.5	57.1	64.2	67.8	74.9	82.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
111884.1
108207.6
101364.6
90517.1
78778.1
64710.6
49391.5
35384.6
25703.1
18724.6
12719.6
8019.7
5120.7
3605.1
2738.6
2189.5
1836.4
1590.4
1408.5
1269.5
1151.8
1066.2
1009.2
952.1
902.2
845.1
773.8
698.9
620.5
517.1
427.9
338.8
263.9
199.7
139.1
78.5
0.0

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