

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: P637381

Luminaire Tested: **IFLD-S-SA3B-740-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637381
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-740-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (48) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16411.5 lumens
Efficiency: N/A
Efficacy: 134.1 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

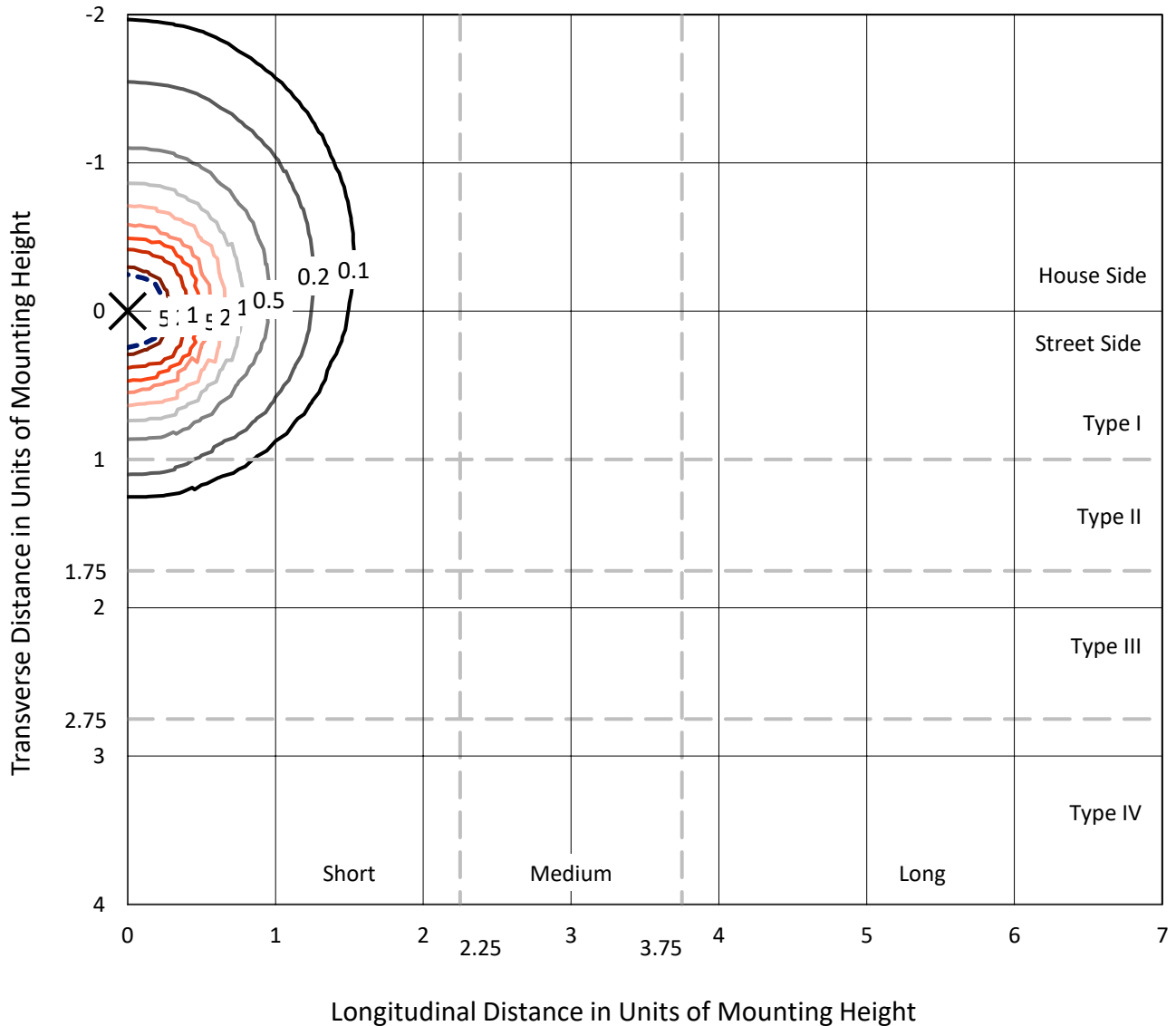
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

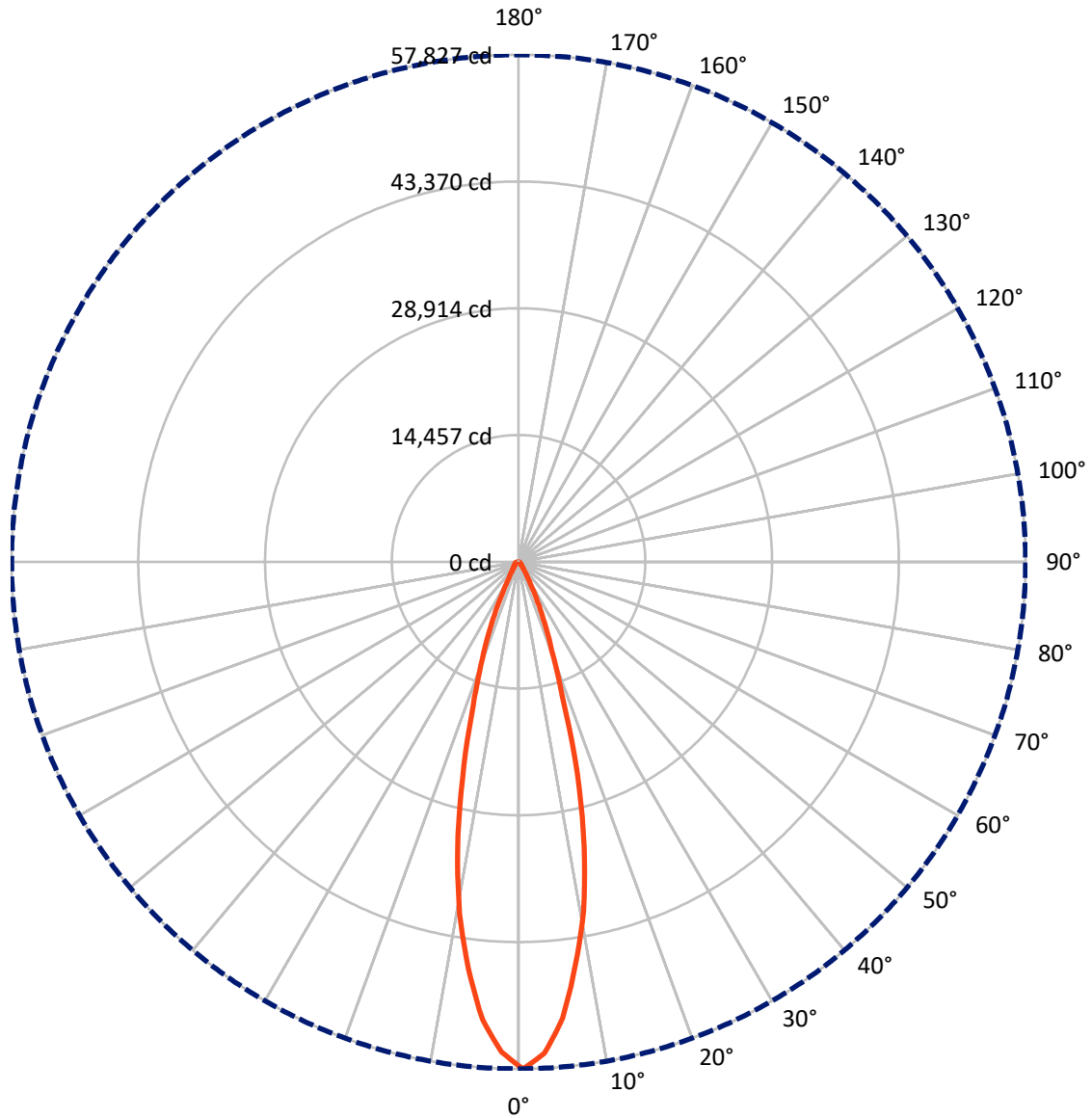
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 144.6 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	8653.2	0.0	8653.2
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	7758.3	0.0	7758.3
	% Fixture	47.3	0.0	47.3
Total	Lumens	16411.5	0.0	16411.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4667.2	28.4
10°-20°	7068.4	43.1
20°-30°	2982.9	18.2
30°-40°	778.0	4.7
40°-50°	393.5	2.4
50°-60°	257.2	1.6
60°-70°	154.1	0.9
70°-80°	81.1	0.5
80°-90°	29.3	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°	16411.5	100.0
0°-180°	16411.5	100.0

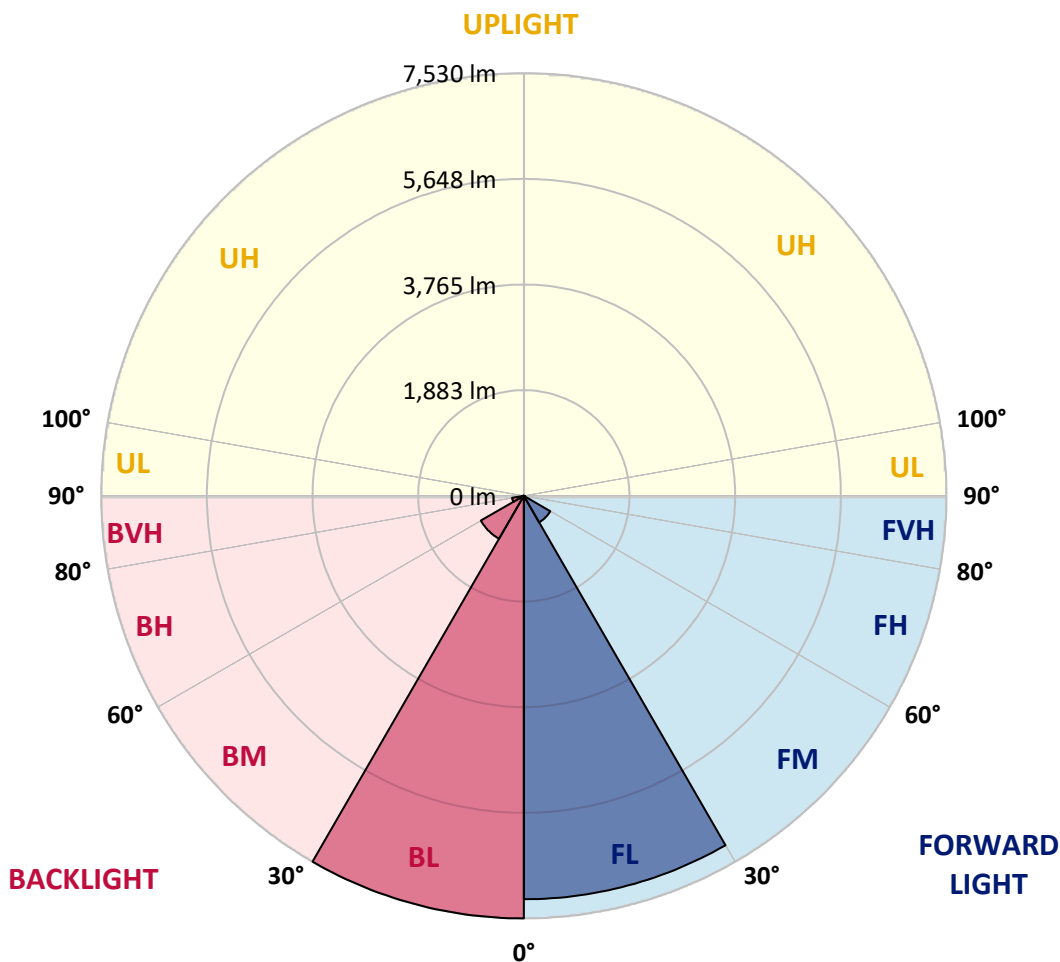


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7188.1	43.8			
FM (30°-60°)	544.4	3.3			
FH (60°-80°)	22.2	0.1			G0/660
FVH (80°-90°)	3.6	0.0			G0/10
BL (0°-30°)	7530.3	45.9	B5		
BM (30°-60°)	884.3	5.4	B1/1000		
BH (60°-80°)	213.0	1.3	B1/500		G0/660
BVH (80°-90°)	25.7	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°	57827.1	57827.1	57827.1	57827.1	57827.1	57827.1	57827.1	57827.1	57827.1	57827.1
2.5°	56142.5	56173.9	56057.8	56308.4	56113.0	56636.5	56376.6	56782.1	56645.7	56872.4
5°	52309.0	52257.4	52224.2	52613.1	52500.7	53062.8	52703.4	52585.5	52950.4	52884.1
7.5°	46520.1	46656.4	46579.0	46680.4	46737.5	47378.9	47581.6	47423.1	47428.7	47520.8
10°	40585.5	40384.6	40098.9	40288.7	40690.5	40970.7	40858.2	41090.5	41038.9	41258.2
12.5°	33283.4	33441.9	33281.5	33112.0	33814.2	33736.8	33932.1	34059.3	33740.4	34450.0
15°	25070.8	25153.7	25349.1	25336.2	25876.2	25985.0	25959.2	26093.7	25844.9	25962.8
17.5°	16106.3	16386.4	16911.7	17800.0	18799.0	18915.1	18885.6	18775.0	18655.2	18522.5
20°	10818.6	10789.1	10979.0	11238.8	13306.7	13854.1	13837.5	13491.0	12989.7	12893.9
22.5°	7578.6	7633.9	7608.0	7866.1	8293.7	9803.1	9617.0	9264.9	9100.9	8994.0
25°	4985.4	4965.1	5094.1	5171.6	5538.3	5722.6	6375.1	6244.2	5991.7	6019.4
27.5°	3039.2	3065.0	3112.9	3179.2	3439.1	3380.1	3752.4	3802.2	3721.1	3634.5
30°	1865.2	1883.6	1922.3	1970.2	2060.5	1996.0	2099.2	2278.0	2248.5	2187.7
32.5°	1266.2	1268.0	1295.7	1314.1	1303.0	1242.2	1275.4	1444.9	1448.6	1443.1
35°	910.5	910.5	936.3	951.0	919.7	869.9	875.4	980.5	1026.6	1035.8
37.5°	628.5	630.3	674.6	718.8	683.8	670.9	648.7	718.8	792.5	803.6
40°	477.3	475.5	497.6	530.8	534.5	510.5	517.9	562.1	637.7	646.9
42.5°	387.0	388.9	399.9	396.3	398.1	429.4	440.5	460.8	530.8	547.4
45°	326.2	328.1	333.6	315.2	307.8	355.7	370.5	381.5	440.5	460.8
47.5°	269.1	272.8	278.3	258.0	254.3	285.7	311.5	322.5	374.1	396.3
50°	193.5	197.2	217.5	206.4	217.5	224.9	259.9	276.5	311.5	341.0
52.5°	140.1	143.8	149.3	151.1	178.8	182.5	208.3	234.1	250.7	283.8
55°	110.6	114.3	110.6	106.9	130.9	151.1	160.3	188.0	200.9	239.6
57.5°	62.7	66.3	71.9	82.9	86.6	116.1	125.3	149.3	160.3	197.2
60°	11.1	12.9	20.3	49.8	60.8	73.7	94.0	114.3	129.0	154.8
62.5°	1.8	1.8	3.7	11.1	35.0	51.6	68.2	81.1	94.0	118.0
65°	0.0	0.0	1.8	3.7	9.2	29.5	36.9	47.9	64.5	84.8
67.5°	0.0	0.0	1.8	3.7	5.5	11.1	16.6	29.5	36.9	57.1
70°	0.0	0.0	1.8	3.7	5.5	7.4	9.2	12.9	22.1	35.0
72.5°	0.0	0.0	1.8	3.7	5.5	7.4	9.2	11.1	11.1	22.1
75°	0.0	0.0	1.8	3.7	5.5	9.2	11.1	11.1	9.2	9.2
77.5°	0.0	0.0	1.8	3.7	7.4	11.1	12.9	11.1	7.4	7.4
80°	0.0	0.0	3.7	5.5	9.2	12.9	16.6	12.9	7.4	3.7
82.5°	0.0	0.0	3.7	7.4	9.2	14.7	20.3	16.6	7.4	3.7
85°	0.0	0.0	1.8	5.5	11.1	14.7	20.3	14.7	7.4	1.8
87.5°	0.0	0.0	1.8	1.8	3.7	5.5	11.1	9.2	3.7	1.8
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°
57827.1	0°	57827.1	57827.1	57827.1	57827.1	57827.1	57827.1	57827.1	57827.1	57827.1
56443.0	2.5°	56767.3	57062.2	57123.0	57041.9	57159.9	56947.9	56785.8	56365.5	56113.0
52863.8	5°	53204.7	53160.5	53468.3	53569.7	53556.8	53394.6	53167.9	52913.5	52666.6
47342.0	7.5°	47636.9	47694.1	47974.2	48153.0	48062.7	47859.9	47703.3	47511.6	47345.7
41337.4	10°	41715.3	41322.7	41671.0	41671.0	41912.5	41339.3	41392.7	40909.9	40932.0
34437.1	12.5°	34555.1	34697.0	34754.1	34918.1	34636.2	34332.1	33959.8	33886.0	33655.7
25738.0	15°	26108.4	26513.9	26165.6	26760.9	26473.4	26156.4	26099.2	25527.9	25708.5
18668.1	17.5°	18576.0	19023.8	19163.9	19504.8	19243.1	19055.1	18817.4	18644.1	18631.2
13069.0	20°	13172.2	13621.9	13725.1	14134.2	14104.7	14045.8	13844.9	13625.6	13387.8
8896.3	22.5°	9030.9	9397.6	9740.4	10291.5	10282.3	10109.0	10088.8	9779.1	9784.7
6010.1	25°	6072.8	6340.0	6421.1	6985.1	7047.8	7029.3	6924.3	6636.8	6745.5
3671.3	27.5°	3675.0	3909.1	4183.7	4382.7	4570.7	4541.2	4436.2	4275.8	4205.8
2206.1	30°	2265.1	2370.1	2471.5	2711.1	2823.5	2882.5	2832.7	2683.5	2694.5
1452.3	32.5°	1483.6	1572.1	1645.8	1797.0	1855.9	1964.7	1944.4	1913.1	1876.2
1045.0	35°	1081.9	1146.4	1196.1	1266.2	1341.7	1433.9	1448.6	1435.7	1421.0
807.2	37.5°	825.7	892.0	949.2	978.7	1037.6	1109.5	1150.1	1148.2	1137.2
658.0	40°	670.9	720.6	772.2	810.9	851.5	904.9	954.7	960.2	960.2
552.9	42.5°	560.3	602.7	654.3	694.8	724.3	774.1	825.7	829.4	825.7
468.1	45°	479.2	516.0	565.8	613.7	637.7	674.6	724.3	735.4	728.0
401.8	47.5°	416.5	449.7	492.1	543.7	569.5	602.7	648.7	661.6	659.8
346.5	50°	357.5	396.3	438.6	481.0	514.2	545.5	589.8	604.5	599.0
294.9	52.5°	315.2	350.2	387.0	433.1	471.8	499.5	534.5	560.3	552.9
248.8	55°	263.6	305.9	344.6	383.4	431.3	460.8	493.9	525.3	517.9
210.1	57.5°	228.5	263.6	307.8	342.8	390.7	425.7	458.9	492.1	490.2
171.4	60°	191.7	228.5	270.9	307.8	352.0	390.7	423.9	460.8	464.4
129.0	62.5°	151.1	195.4	232.2	274.6	318.8	361.2	390.7	427.6	433.1
97.7	65°	114.3	160.3	200.9	241.4	285.7	331.7	357.5	388.9	394.4
71.9	67.5°	84.8	123.5	171.4	208.3	254.3	298.6	322.5	348.3	357.5
44.2	70°	64.5	94.0	143.8	178.8	226.7	261.7	287.5	309.6	317.0
29.5	72.5°	40.5	73.7	116.1	153.0	195.4	226.7	245.1	258.0	269.1
16.6	75°	27.6	57.1	94.0	130.9	162.2	186.1	202.7	213.8	223.0
7.4	77.5°	16.6	44.2	77.4	108.7	129.0	147.4	164.0	171.4	176.9
5.5	80°	9.2	33.2	64.5	88.5	101.4	114.3	127.2	136.4	140.1
3.7	82.5°	5.5	25.8	51.6	68.2	73.7	86.6	99.5	105.1	105.1
1.8	85°	3.7	18.4	35.0	49.8	53.4	62.7	66.3	70.0	73.7
1.8	87.5°	3.7	11.1	22.1	27.6	29.5	33.2	35.0	38.7	42.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
<i>57827.1</i>
55926.9
52390.1
46783.6
40716.3
33445.6
25527.9
18288.4
13284.6
9677.8
6574.1
4145.0
2646.6
1863.3
1415.5
1131.6
949.2
822.0
728.0
656.1
595.3
551.1
521.6
492.1
466.3
436.8
399.9
361.2
320.7
267.2
221.2
175.1
136.4
103.2
71.9
40.5
0.0

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