

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: P637411

Luminaire Tested: **IFLD-S-SA3C-750-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637411
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-750-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (48) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20897.5 lumens
Efficiency: N/A
Efficacy: 130.0 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

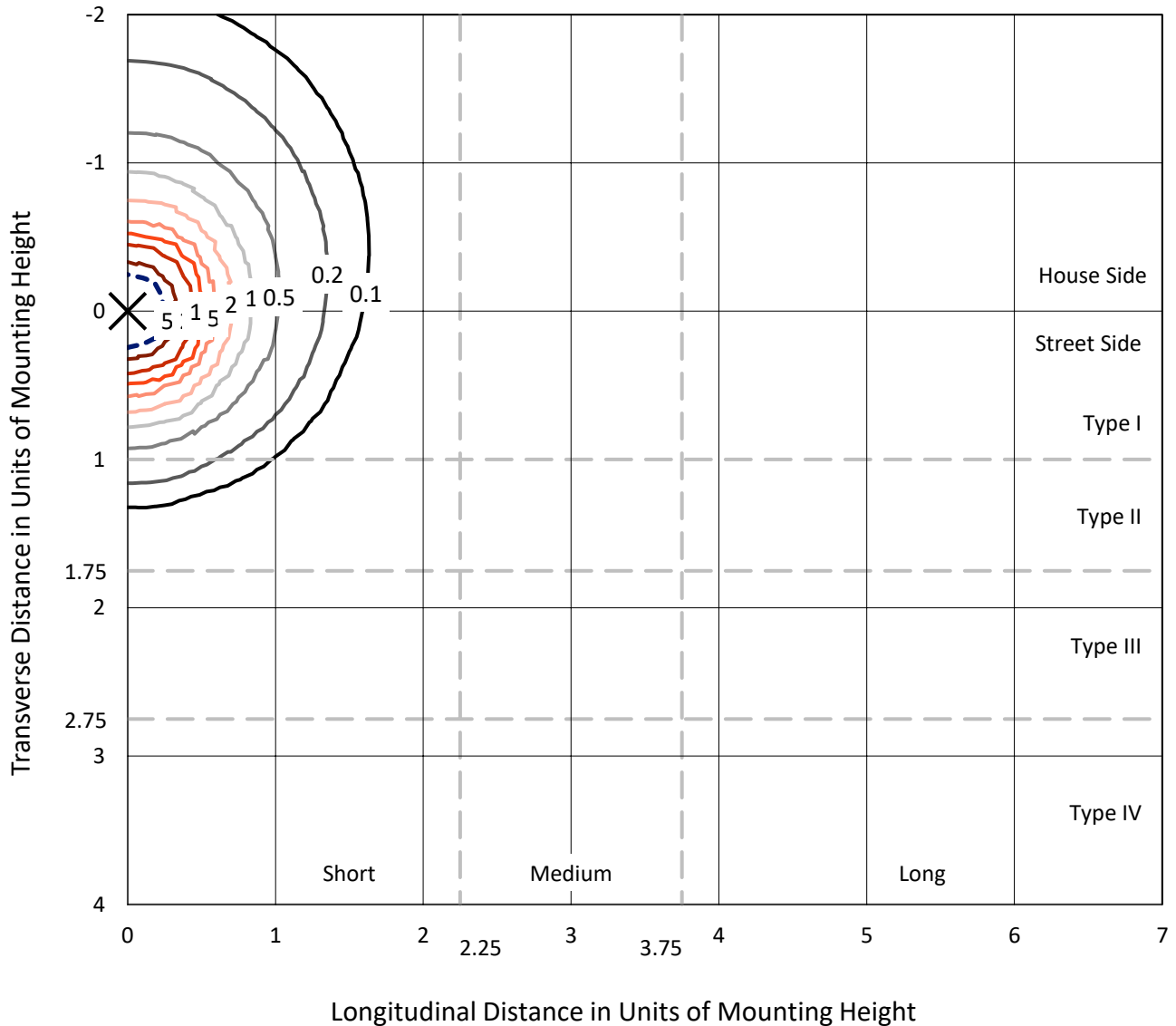
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

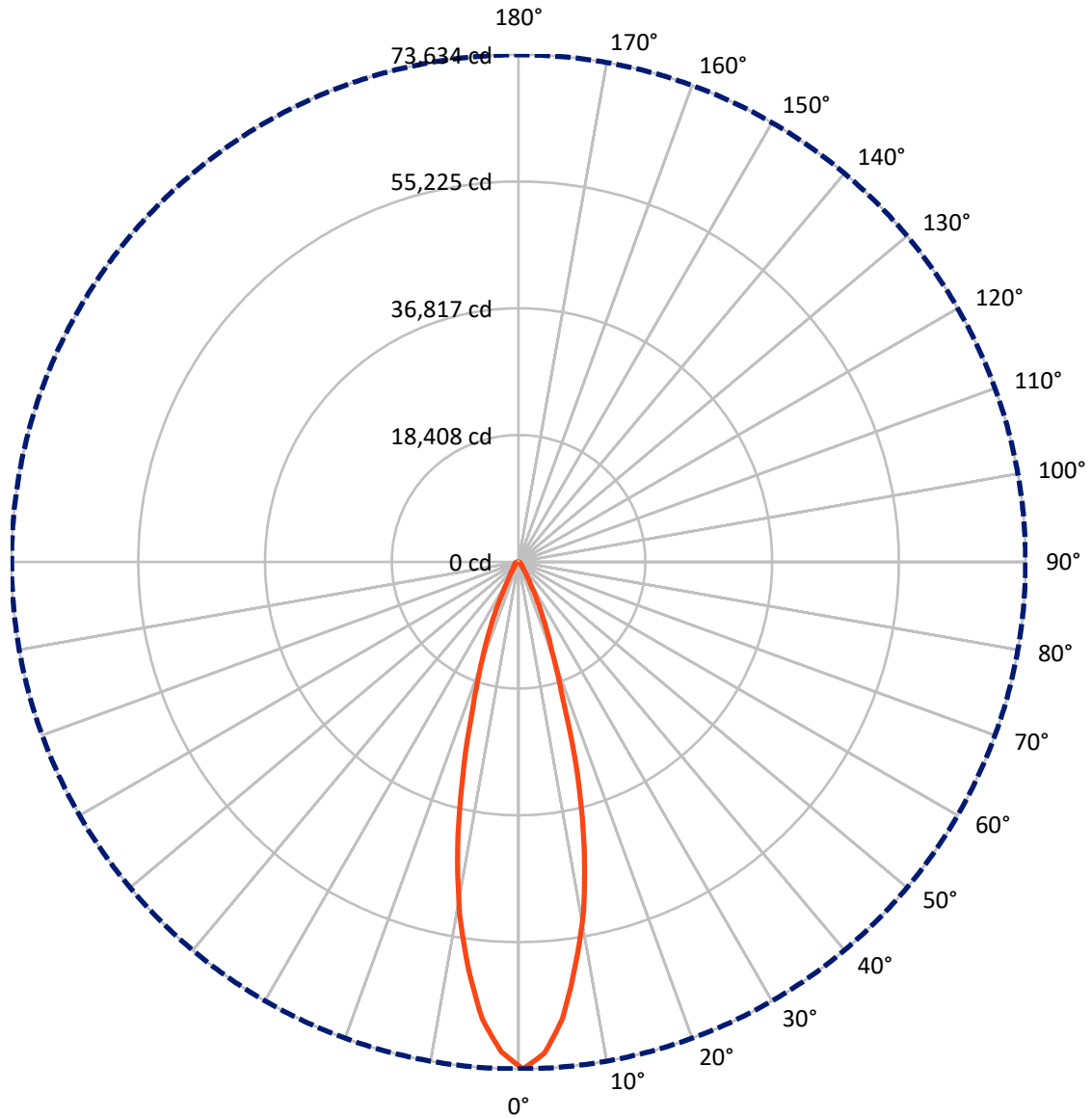
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 184.1 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	11018.6	0.0	11018.6
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	9878.9	0.0	9878.9
	% Fixture	47.3	0.0	47.3
Total	Lumens	20897.5	0.0	20897.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5942.9	28.4
10°-20°	9000.5	43.1
20°-30°	3798.2	18.2
30°-40°	990.6	4.7
40°-50°	501.0	2.4
50°-60°	327.5	1.6
60°-70°	196.2	0.9
70°-80°	103.2	0.5
80°-90°	37.3	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°	20897.5	100.0
0°-180°	20897.5	100.0

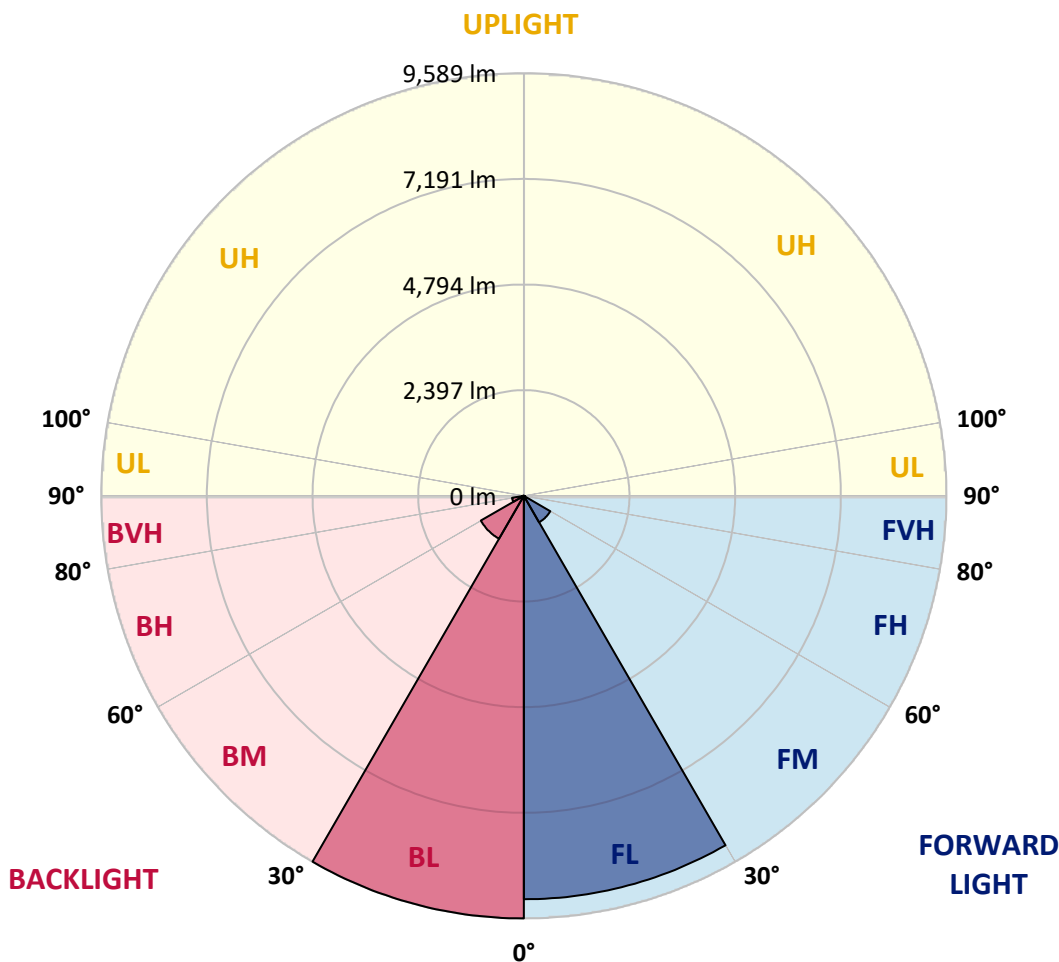


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9153.0	43.8			
FM (30°-60°)	693.2	3.3			
FH (60°-80°)	28.2	0.1			G0/660
FVH (80°-90°)	4.5	0.0			G0/10
BL (0°-30°)	9588.7	45.9	B5		
BM (30°-60°)	1126.0	5.4	B2/2500		
BH (60°-80°)	271.2	1.3	B1/500		G0/660
BVH (80°-90°)	32.8	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°	73633.7	73633.7	73633.7	73633.7	73633.7	73633.7	73633.7	73633.7	73633.7	73633.7
2.5°	71488.8	71528.6	71380.8	71700.0	71451.2	72117.7	71786.8	72303.1	72129.4	72418.1
5°	66607.4	66541.7	66499.4	66994.6	66851.4	67567.2	67109.6	66959.4	67424.1	67339.6
7.5°	59236.0	59409.7	59311.1	59440.2	59512.9	60329.6	60587.8	60386.0	60393.0	60510.3
10°	51679.3	51423.5	51059.7	51301.4	51813.0	52169.8	52026.6	52322.3	52256.6	52535.9
12.5°	42381.2	42583.0	42378.8	42162.9	43057.1	42958.5	43207.3	43369.2	42963.2	43866.7
15°	31923.8	32029.4	32278.1	32261.7	32949.3	33087.8	33054.9	33226.2	32909.4	33059.6
17.5°	20508.8	20865.6	21534.4	22665.6	23937.5	24085.4	24047.8	23907.0	23754.5	23585.5
20°	13775.8	13738.3	13980.0	14310.9	16944.0	17641.0	17619.9	17178.7	16540.4	16418.3
22.5°	9650.1	9720.5	9687.7	10016.2	10560.7	12482.7	12245.7	11797.5	11588.6	11452.5
25°	6348.1	6322.3	6486.6	6585.2	7052.2	7286.9	8117.6	7951.0	7629.5	7664.7
27.5°	3869.9	3902.8	3963.8	4048.3	4379.2	4304.1	4778.1	4841.5	4738.2	4627.9
30°	2375.0	2398.4	2447.7	2508.7	2623.7	2541.6	2673.0	2900.7	2863.1	2785.7
32.5°	1612.3	1614.6	1649.8	1673.3	1659.2	1581.8	1624.0	1839.9	1844.6	1837.6
35°	1159.3	1159.3	1192.2	1211.0	1171.1	1107.7	1114.7	1248.5	1307.2	1318.9
37.5°	800.3	802.6	858.9	915.3	870.7	854.2	826.1	915.3	1009.1	1023.2
40°	607.8	605.5	633.6	675.9	680.6	650.1	659.5	715.8	812.0	823.7
42.5°	492.8	495.2	509.3	504.6	506.9	546.8	560.9	586.7	675.9	697.0
45°	415.4	417.7	424.8	401.3	391.9	452.9	471.7	485.8	560.9	586.7
47.5°	342.6	347.3	354.4	328.6	323.9	363.8	396.6	410.7	476.4	504.6
50°	246.4	251.1	276.9	262.8	276.9	286.3	330.9	352.0	396.6	434.2
52.5°	178.4	183.1	190.1	192.4	227.6	232.3	265.2	298.0	319.2	361.4
55°	140.8	145.5	140.8	136.1	166.6	192.4	204.2	239.4	255.8	305.1
57.5°	79.8	84.5	91.5	105.6	110.3	147.8	159.6	190.1	204.2	251.1
60°	14.1	16.4	25.8	63.4	77.4	93.9	119.7	145.5	164.3	197.1
62.5°	2.3	2.3	4.7	14.1	44.6	65.7	86.8	103.3	119.7	150.2
65°	0.0	0.0	2.3	4.7	11.7	37.5	46.9	61.0	82.1	108.0
67.5°	0.0	0.0	2.3	4.7	7.0	14.1	21.1	37.5	46.9	72.8
70°	0.0	0.0	2.3	4.7	7.0	9.4	11.7	16.4	28.2	44.6
72.5°	0.0	0.0	2.3	4.7	7.0	9.4	11.7	14.1	14.1	28.2
75°	0.0	0.0	2.3	4.7	7.0	11.7	14.1	14.1	11.7	11.7
77.5°	0.0	0.0	2.3	4.7	9.4	14.1	16.4	14.1	9.4	9.4
80°	0.0	0.0	4.7	7.0	11.7	16.4	21.1	16.4	9.4	4.7
82.5°	0.0	0.0	4.7	9.4	11.7	18.8	25.8	21.1	9.4	4.7
85°	0.0	0.0	2.3	7.0	14.1	18.8	25.8	18.8	9.4	2.3
87.5°	0.0	0.0	2.3	2.3	4.7	7.0	14.1	11.7	4.7	2.3
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°
73633.7	0°	73633.7	73633.7	73633.7	73633.7	73633.7	73633.7	73633.7	73633.7	73633.7
71871.3	2.5°	72284.3	72659.8	72737.3	72634.0	72784.2	72514.3	72307.8	71772.7	71451.2
67313.8	5°	67747.9	67691.6	68083.5	68212.6	68196.2	67989.6	67701.0	67377.1	67062.7
60282.7	7.5°	60658.2	60730.9	61087.7	61315.3	61200.3	60942.2	60742.7	60498.6	60287.4
52636.8	10°	53117.9	52618.0	53061.5	53061.5	53369.0	52639.1	52707.2	52092.3	52120.5
43850.3	12.5°	44000.5	44181.2	44253.9	44462.8	44103.7	43716.5	43242.5	43148.6	42855.2
32773.3	15°	33245.0	33761.3	33317.8	34075.8	33709.7	33306.0	33233.3	32505.8	32735.8
23770.9	17.5°	23653.6	24223.8	24402.2	24836.4	24503.1	24263.7	23961.0	23740.4	23724.0
16641.3	20°	16772.7	17345.3	17476.7	17997.7	17960.2	17885.1	17629.3	17350.0	17047.3
11328.1	22.5°	11499.4	11966.4	12402.9	13104.6	13092.9	12872.3	12846.5	12452.2	12459.3
7653.0	25°	7732.8	8073.1	8176.3	8894.4	8974.2	8950.8	8817.0	8450.9	8589.4
4674.9	27.5°	4679.6	4977.6	5327.3	5580.7	5820.1	5782.6	5648.8	5444.6	5355.4
2809.1	30°	2884.2	3018.0	3147.1	3452.2	3595.3	3670.4	3607.1	3417.0	3431.0
1849.3	32.5°	1889.2	2001.8	2095.7	2288.1	2363.2	2501.7	2475.9	2436.0	2389.1
1330.6	35°	1377.6	1459.7	1523.1	1612.3	1708.5	1825.8	1844.6	1828.2	1809.4
1027.9	37.5°	1051.4	1135.9	1208.6	1246.2	1321.3	1412.8	1464.4	1462.1	1448.0
837.8	40°	854.2	917.6	983.3	1032.6	1084.2	1152.3	1215.7	1222.7	1222.7
704.0	42.5°	713.4	767.4	833.1	884.8	922.3	985.7	1051.4	1056.1	1051.4
596.1	45°	610.2	657.1	720.5	781.5	812.0	858.9	922.3	936.4	927.0
511.6	47.5°	530.4	572.6	626.6	692.3	725.2	767.4	826.1	842.5	840.2
441.2	50°	455.3	504.6	558.5	612.5	654.8	694.7	751.0	769.8	762.7
375.5	52.5°	401.3	445.9	492.8	551.5	600.8	636.0	680.6	713.4	704.0
316.8	55°	335.6	389.6	438.9	488.1	549.2	586.7	628.9	668.8	659.5
267.5	57.5°	291.0	335.6	391.9	436.5	497.5	542.1	584.4	626.6	624.3
218.3	60°	244.1	291.0	345.0	391.9	448.2	497.5	539.8	586.7	591.4
164.3	62.5°	192.4	248.8	295.7	349.7	406.0	460.0	497.5	544.5	551.5
124.4	65°	145.5	204.2	255.8	307.4	363.8	422.4	455.3	495.2	502.2
91.5	67.5°	108.0	157.2	218.3	265.2	323.9	380.2	410.7	443.5	455.3
56.3	70°	82.1	119.7	183.1	227.6	288.7	333.2	366.1	394.3	403.7
37.5	72.5°	51.6	93.9	147.8	194.8	248.8	288.7	312.1	328.6	342.6
21.1	75°	35.2	72.8	119.7	166.6	206.5	237.0	258.1	272.2	284.0
9.4	77.5°	21.1	56.3	98.6	138.5	164.3	187.7	208.9	218.3	225.3
7.0	80°	11.7	42.2	82.1	112.6	129.1	145.5	161.9	173.7	178.4
4.7	82.5°	7.0	32.9	65.7	86.8	93.9	110.3	126.7	133.8	133.8
2.3	85°	4.7	23.5	44.6	63.4	68.1	79.8	84.5	89.2	93.9
2.3	87.5°	4.7	14.1	28.2	35.2	37.5	42.2	44.6	49.3	54.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
<u>73633.7</u>
71214.2
66710.6
59571.6
51845.9
42587.7
32505.8
23287.5
16915.9
12323.1
8371.1
5278.0
3370.0
2372.6
1802.4
1440.9
1208.6
1046.7
927.0
835.5
758.0
701.7
664.1
626.6
593.7
556.2
509.3
460.0
408.3
340.3
281.6
222.9
173.7
131.4
91.5
51.6
0.0

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