

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: P637351

Luminaire Tested: **IFLD-S-SA3A-735-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637351
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-735-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (48) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13088.1 lumens
Efficiency: N/A
Efficacy: 138.1 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

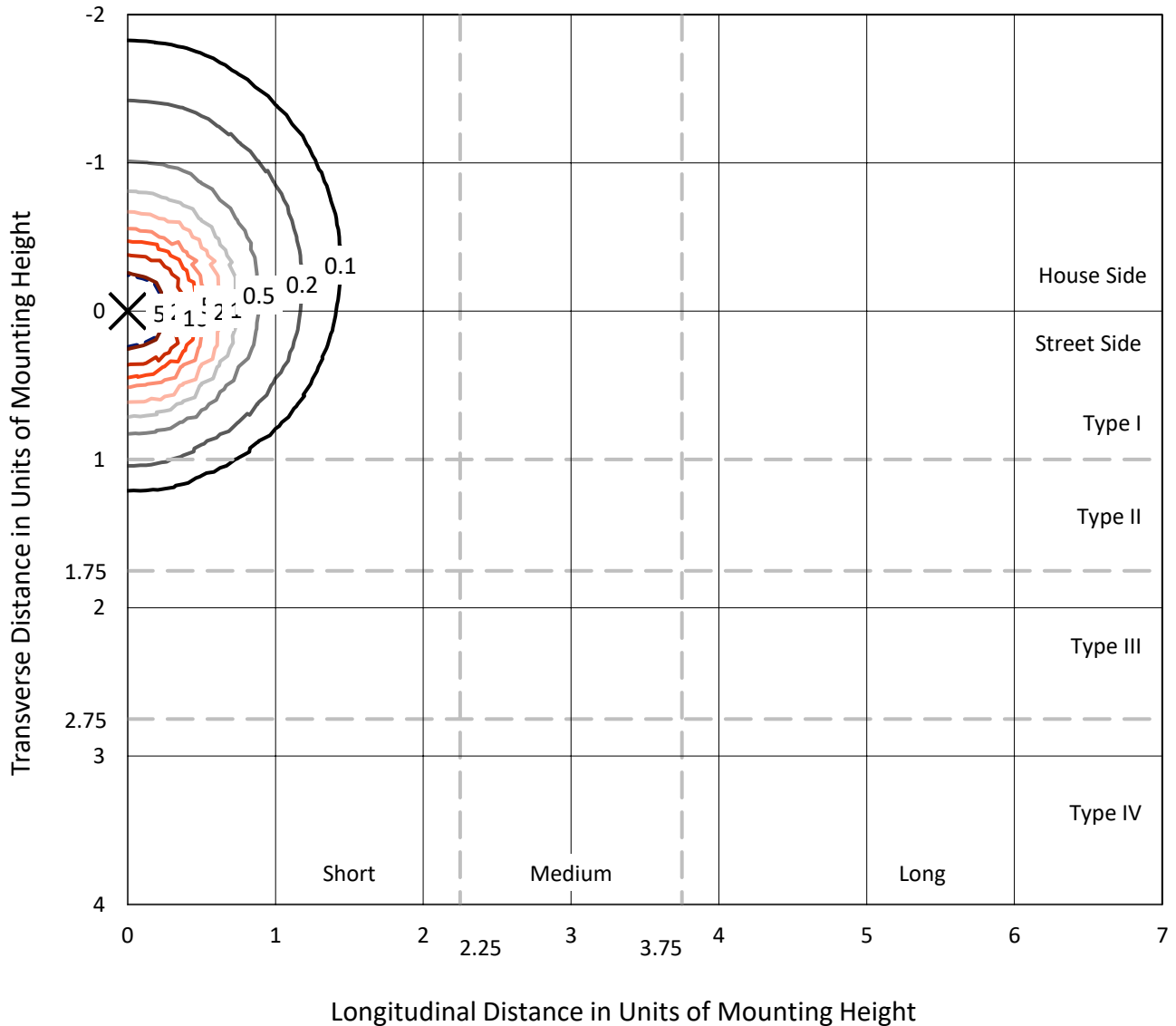
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

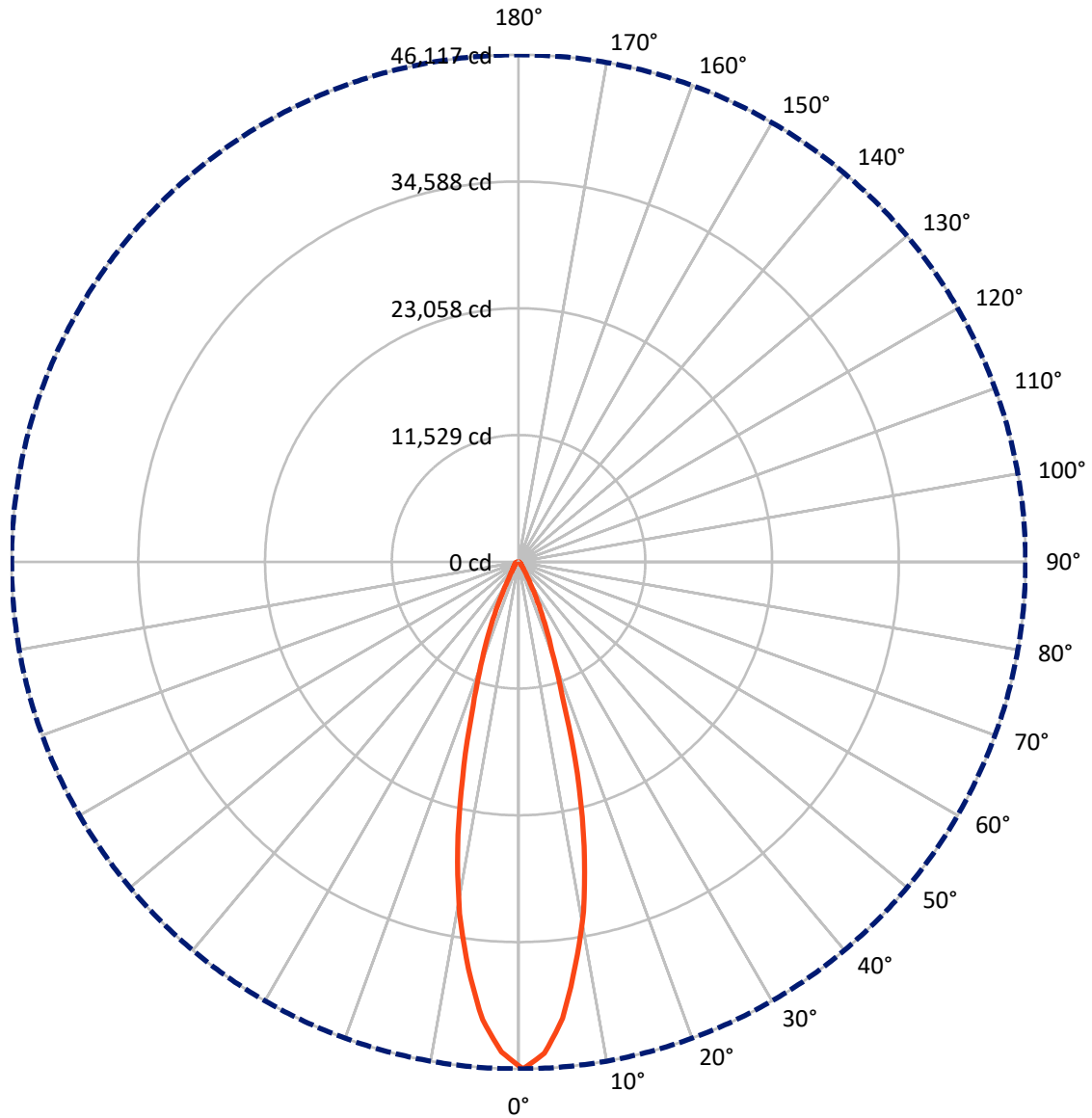
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 115.3 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	6900.9	0.0	6900.9
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	6187.1	0.0	6187.1
	% Fixture	47.3	0.0	47.3
Total	Lumens	13088.1	0.0	13088.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3722.0	28.4
10°-20°	5637.0	43.1
20°-30°	2378.8	18.2
30°-40°	620.4	4.7
40°-50°	313.8	2.4
50°-60°	205.1	1.6
60°-70°	122.9	0.9
70°-80°	64.6	0.5
80°-90°	23.4	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°	13088.1	100.0
0°-180°	13088.1	100.0

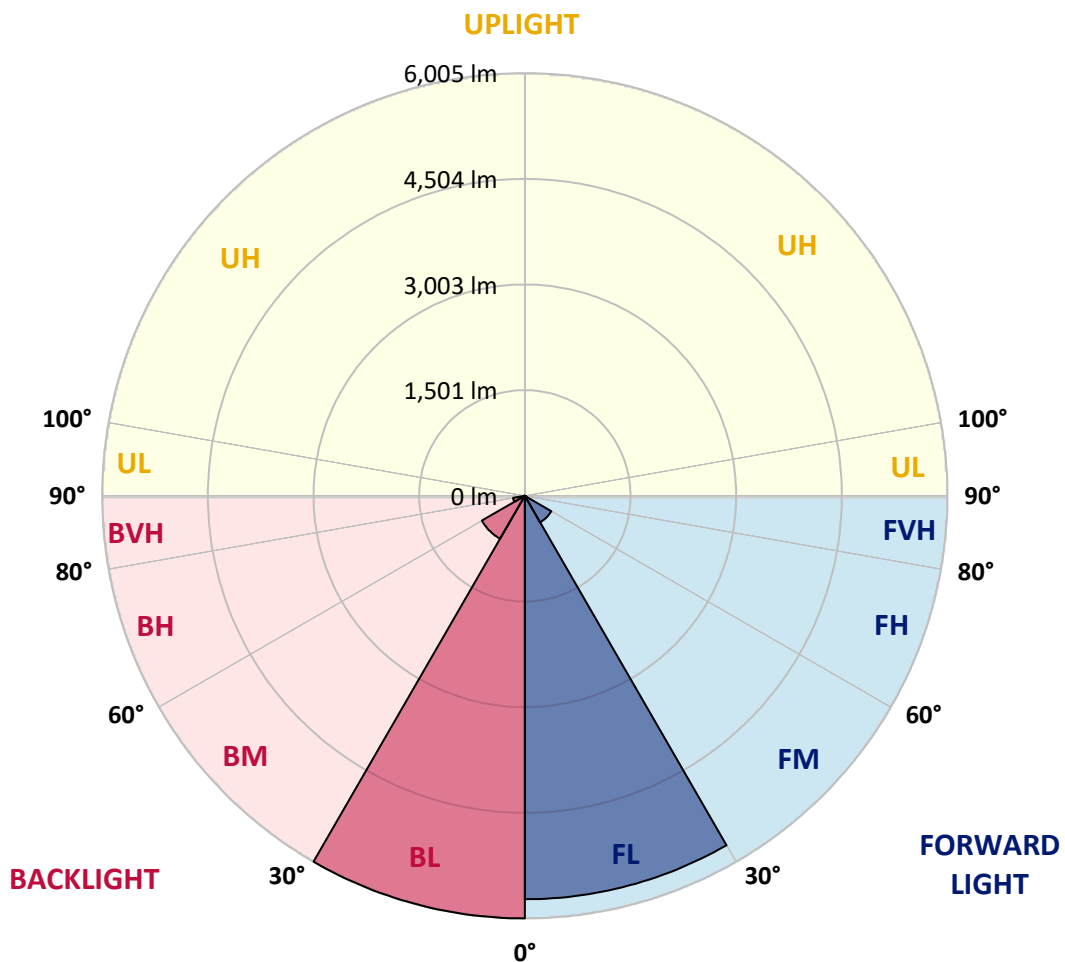


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5732.5	43.8			
FM (30°-60°)	434.1	3.3			
FH (60°-80°)	17.7	0.1			G0/660
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	6005.4	45.9	B5		
BM (30°-60°)	705.2	5.4	B1/1000		
BH (60°-80°)	169.8	1.3	B1/500		G0/660
BVH (80°-90°)	20.5	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°	46116.7	46116.7	46116.7	46116.7	46116.7	46116.7	46116.7	46116.7	46116.7	46116.7
2.5°	44773.3	44798.3	44705.7	44905.6	44749.8	45167.2	44959.9	45283.3	45174.5	45355.3
5°	41716.1	41674.9	41648.5	41958.6	41868.9	42317.2	42030.6	41936.6	42227.6	42174.7
7.5°	37099.4	37208.2	37146.4	37227.3	37272.9	37784.3	37946.0	37819.6	37824.0	37897.5
10°	32366.6	32206.4	31978.6	32130.0	32450.4	32673.8	32584.2	32769.4	32728.2	32903.1
12.5°	26543.3	26669.7	26541.8	26406.6	26966.6	26904.8	27060.6	27162.0	26907.8	27473.6
15°	19993.8	20059.9	20215.7	20205.4	20636.1	20722.8	20702.2	20809.5	20611.1	20705.2
17.5°	12844.6	13068.1	13487.0	14195.4	14992.0	15084.6	15061.1	14972.9	14877.4	14771.6
20°	8627.8	8604.3	8755.6	8962.9	10612.0	11048.5	11035.3	10759.0	10359.2	10282.8
22.5°	6043.8	6087.9	6067.4	6273.1	6614.1	7817.9	7669.5	7388.7	7257.9	7172.7
25°	3975.8	3959.7	4062.5	4124.3	4416.8	4563.8	5084.1	4979.7	4778.3	4800.4
27.5°	2423.7	2444.3	2482.5	2535.4	2742.7	2695.6	2992.5	3032.2	2967.5	2898.5
30°	1487.4	1502.1	1533.0	1571.2	1643.2	1591.8	1674.1	1816.7	1793.2	1744.7
32.5°	1009.8	1011.2	1033.3	1048.0	1039.2	990.7	1017.1	1152.3	1155.3	1150.9
35°	726.1	726.1	746.7	758.4	733.4	693.7	698.2	781.9	818.7	826.0
37.5°	501.2	502.7	537.9	573.2	545.3	535.0	517.4	573.2	632.0	640.8
40°	380.7	379.2	396.8	423.3	426.2	407.1	413.0	448.3	508.6	515.9
42.5°	308.7	310.1	318.9	316.0	317.5	342.5	351.3	367.5	423.3	436.5
45°	260.2	261.6	266.0	251.3	245.5	283.7	295.4	304.3	351.3	367.5
47.5°	214.6	217.5	221.9	205.8	202.8	227.8	248.4	257.2	298.4	316.0
50°	154.3	157.3	173.4	164.6	173.4	179.3	207.2	220.5	248.4	271.9
52.5°	111.7	114.6	119.1	120.5	142.6	145.5	166.1	186.7	199.9	226.4
55°	88.2	91.1	88.2	85.2	104.4	120.5	127.9	149.9	160.2	191.1
57.5°	50.0	52.9	57.3	66.1	69.1	92.6	99.9	119.1	127.9	157.3
60°	8.8	10.3	16.2	39.7	48.5	58.8	75.0	91.1	102.9	123.5
62.5°	1.5	1.5	2.9	8.8	27.9	41.2	54.4	64.7	75.0	94.1
65°	0.0	0.0	1.5	2.9	7.3	23.5	29.4	38.2	51.4	67.6
67.5°	0.0	0.0	1.5	2.9	4.4	8.8	13.2	23.5	29.4	45.6
70°	0.0	0.0	1.5	2.9	4.4	5.9	7.3	10.3	17.6	27.9
72.5°	0.0	0.0	1.5	2.9	4.4	5.9	7.3	8.8	8.8	17.6
75°	0.0	0.0	1.5	2.9	4.4	7.3	8.8	8.8	7.3	7.3
77.5°	0.0	0.0	1.5	2.9	5.9	8.8	10.3	8.8	5.9	5.9
80°	0.0	0.0	2.9	4.4	7.3	10.3	13.2	10.3	5.9	2.9
82.5°	0.0	0.0	2.9	5.9	7.3	11.8	16.2	13.2	5.9	2.9
85°	0.0	0.0	1.5	4.4	8.8	11.8	16.2	11.8	5.9	1.5
87.5°	0.0	0.0	1.5	1.5	2.9	4.4	8.8	7.3	2.9	1.5
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°
46116.7	0°	46116.7	46116.7	46116.7	46116.7	46116.7	46116.7	46116.7	46116.7	46116.7
45012.9	2.5°	45271.5	45506.7	45555.2	45490.5	45584.6	45415.6	45286.2	44951.1	44749.8
42158.5	5°	42430.4	42395.1	42640.6	42721.4	42711.1	42581.8	42401.0	42198.2	42001.2
37755.0	7.5°	37990.1	38035.7	38259.1	38401.7	38329.6	38168.0	38043.0	37890.2	37757.9
32966.3	10°	33267.6	32954.6	33232.4	33232.4	33424.9	32967.8	33010.4	32625.3	32643.0
27463.4	12.5°	27557.4	27670.6	27716.2	27847.0	27622.1	27379.6	27082.7	27023.9	26840.2
20525.9	15°	20821.3	21144.7	20866.9	21341.6	21112.3	20859.5	20813.9	20358.3	20502.3
14887.7	17.5°	14814.2	15171.4	15283.1	15555.0	15346.3	15196.3	15006.7	14868.6	14858.3
10422.4	20°	10504.7	10863.3	10945.7	11272.0	11248.4	11201.4	11041.2	10866.3	10676.7
7094.8	22.5°	7202.1	7494.5	7767.9	8207.4	8200.1	8061.9	8045.7	7798.8	7803.2
4793.0	25°	4843.0	5056.1	5120.8	5570.6	5620.5	5605.8	5522.1	5292.8	5379.5
2927.9	27.5°	2930.8	3117.5	3336.5	3495.2	3645.1	3621.6	3537.8	3410.0	3354.1
1759.4	30°	1806.4	1890.2	1971.0	2162.1	2251.7	2298.8	2259.1	2140.0	2148.9
1158.2	32.5°	1183.2	1253.7	1312.5	1433.1	1480.1	1566.8	1550.6	1525.7	1496.3
833.4	35°	862.8	914.2	953.9	1009.8	1070.0	1143.5	1155.3	1145.0	1133.2
643.8	37.5°	658.5	711.4	757.0	780.5	827.5	884.8	917.2	915.7	906.9
524.7	40°	535.0	574.7	615.8	646.7	679.1	721.7	761.4	765.8	765.8
440.9	42.5°	446.8	480.6	521.8	554.1	577.6	617.3	658.5	661.4	658.5
373.3	45°	382.1	411.5	451.2	489.4	508.6	537.9	577.6	586.5	580.6
320.4	47.5°	332.2	358.6	392.4	433.6	454.2	480.6	517.4	527.7	526.2
276.3	50°	285.1	316.0	349.8	383.6	410.1	435.1	470.3	482.1	477.7
235.2	52.5°	251.3	279.3	308.7	345.4	376.3	398.3	426.2	446.8	440.9
198.4	55°	210.2	244.0	274.9	305.7	343.9	367.5	393.9	418.9	413.0
167.6	57.5°	182.3	210.2	245.5	273.4	311.6	339.5	366.0	392.4	391.0
136.7	60°	152.9	182.3	216.1	245.5	280.7	311.6	338.1	367.5	370.4
102.9	62.5°	120.5	155.8	185.2	219.0	254.3	288.1	311.6	341.0	345.4
77.9	65°	91.1	127.9	160.2	192.5	227.8	264.6	285.1	310.1	314.5
57.3	67.5°	67.6	98.5	136.7	166.1	202.8	238.1	257.2	277.8	285.1
35.3	70°	51.4	75.0	114.6	142.6	180.8	208.7	229.3	246.9	252.8
23.5	72.5°	32.3	58.8	92.6	122.0	155.8	180.8	195.5	205.8	214.6
13.2	75°	22.0	45.6	75.0	104.4	129.3	148.5	161.7	170.5	177.8
5.9	77.5°	13.2	35.3	61.7	86.7	102.9	117.6	130.8	136.7	141.1
4.4	80°	7.3	26.5	51.4	70.6	80.8	91.1	101.4	108.8	111.7
2.9	82.5°	4.4	20.6	41.2	54.4	58.8	69.1	79.4	83.8	83.8
1.5	85°	2.9	14.7	27.9	39.7	42.6	50.0	52.9	55.9	58.8
1.5	87.5°	2.9	8.8	17.6	22.0	23.5	26.5	27.9	30.9	33.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
<u>46116.7</u>
44601.3
41780.8
37309.6
32471.0
26672.6
20358.3
14584.9
10594.4
7718.0
5242.8
3305.6
2110.6
1486.0
1128.8
902.5
757.0
655.5
580.6
523.3
474.7
439.5
416.0
392.4
371.9
348.3
318.9
288.1
255.7
213.1
176.4
139.6
108.8
82.3
57.3
32.3
0.0

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