

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: P637375

Luminaire Tested: **IFLD-S-SA2A-740-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637375  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-740-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (32) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8904.3 lumens  
Efficiency: N/A  
Efficacy: 139.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

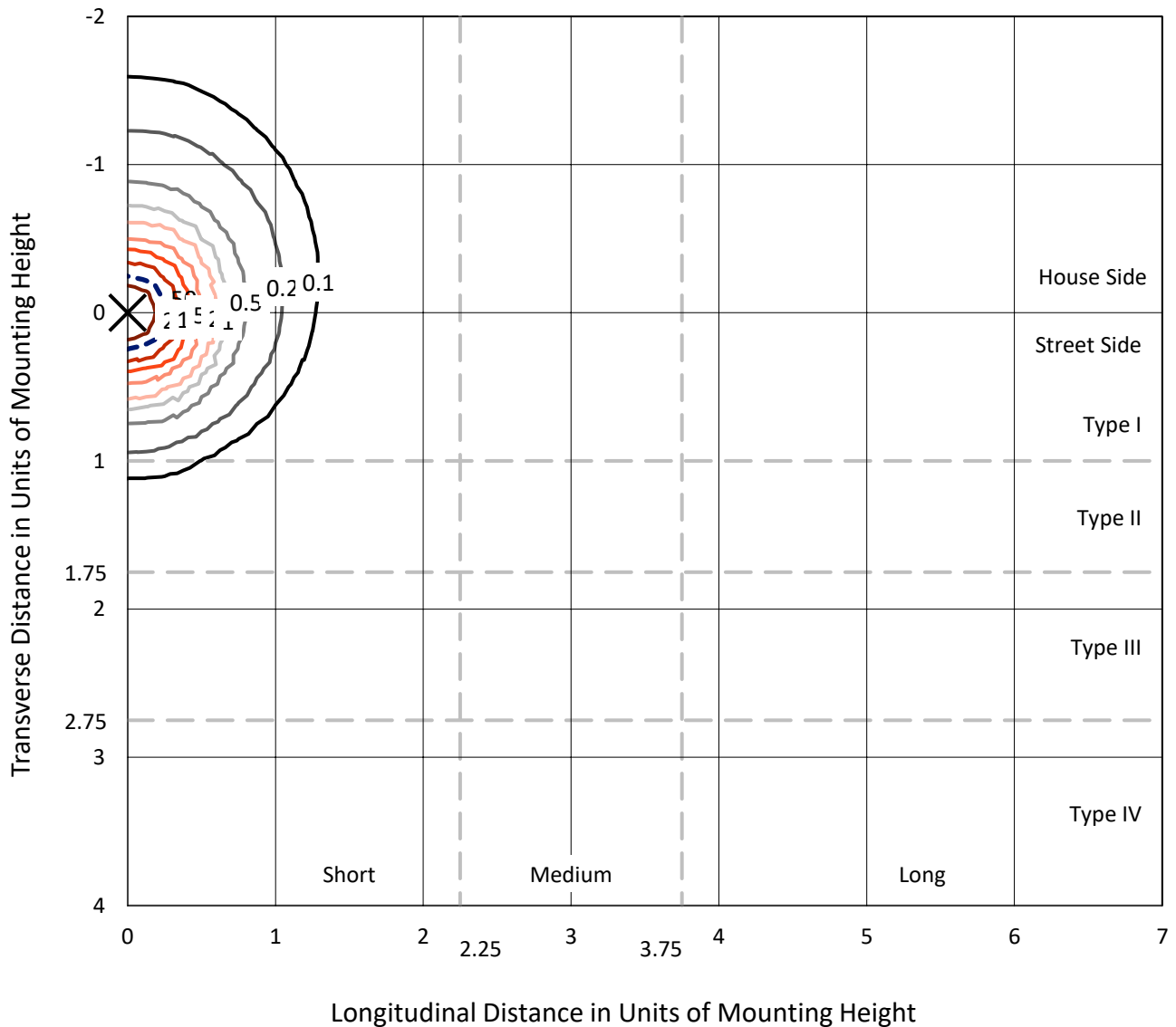
Input Watts (W): 63.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

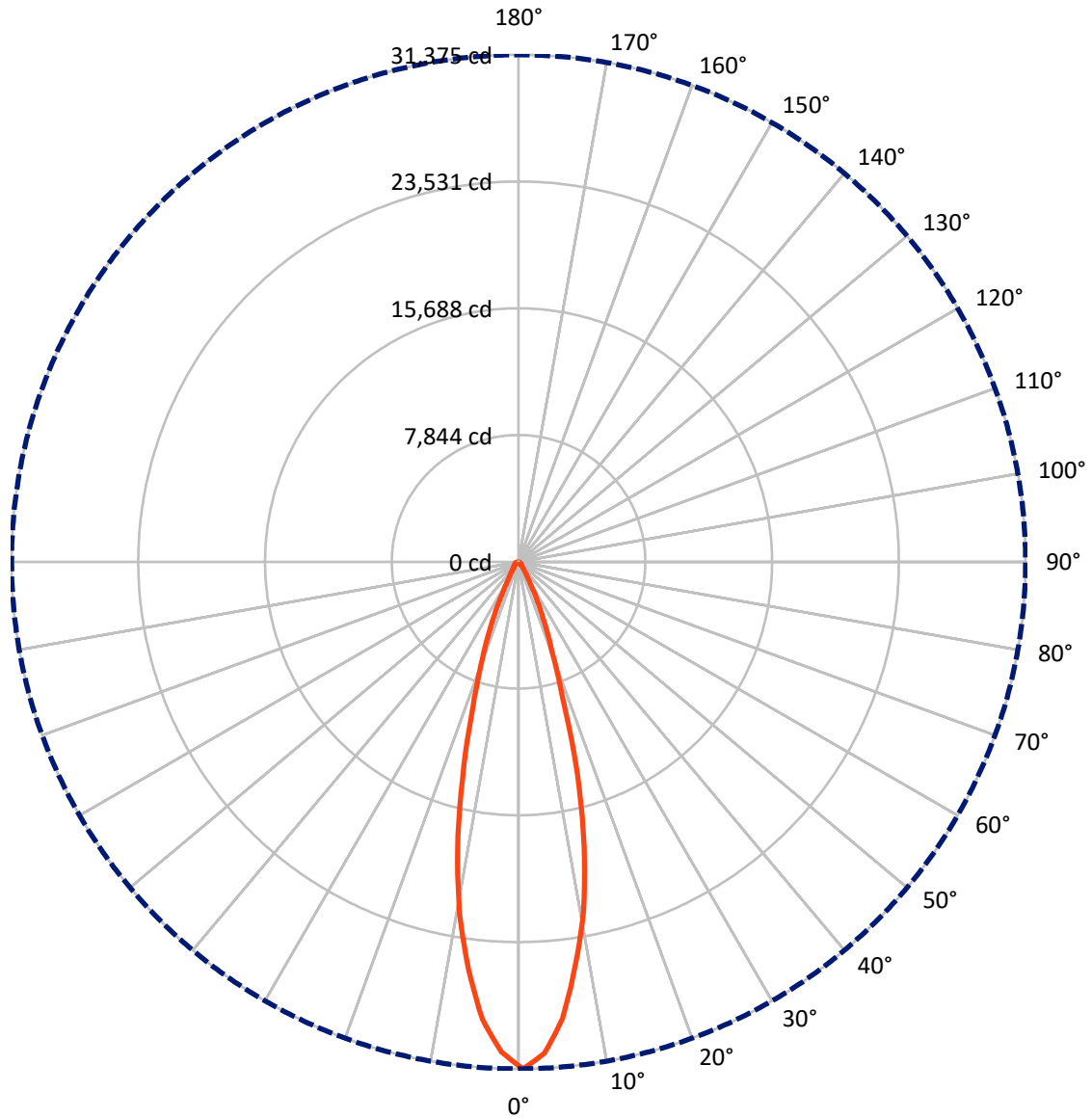
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 78.4 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
<b>House Side</b>	Lumens	4695.0	0.0	4695.0
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	4209.4	0.0	4209.4
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	8904.3	0.0	8904.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2532.2	28.4
10°-20°	3835.1	43.1
20°-30°	1618.4	18.2
30°-40°	422.1	4.7
40°-50°	213.5	2.4
50°-60°	139.6	1.6
60°-70°	83.6	0.9
70°-80°	44.0	0.5
80°-90°	15.9	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°	8904.3	100.0
0°-180°	8904.3	100.0

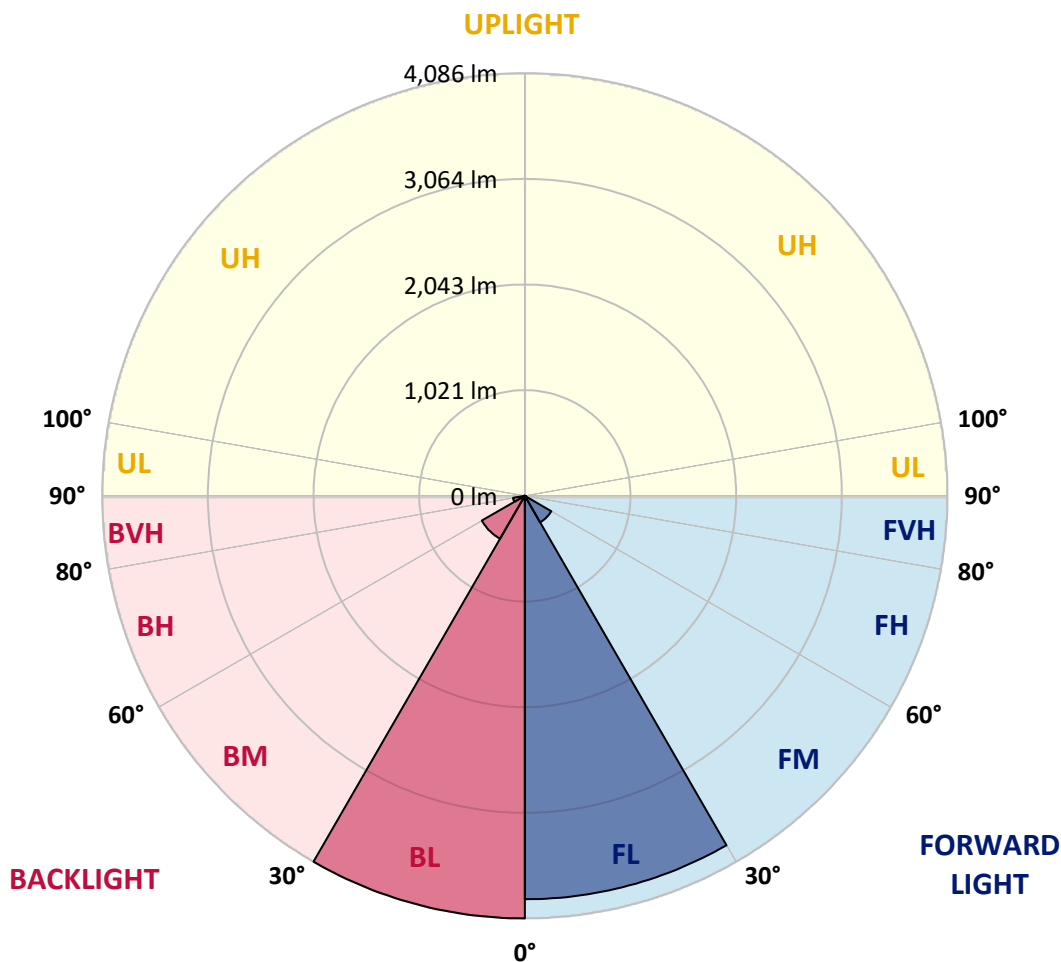


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3900.0	43.8			
FM (30°-60°)	295.4	3.3			
FH (60°-80°)	12.0	0.1			G0/660
FVH (80°-90°)	1.9	0.0			G0/10
BL (0°-30°)	4085.7	45.9	B4/5000		
BM (30°-60°)	479.8	5.4	B1/1000		
BH (60°-80°)	115.6	1.3	B1/500		G0/660
BVH (80°-90°)	14.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	31375.0	31375.0	31375.0	31375.0	31375.0	31375.0	31375.0	31375.0	31375.0	31375.0
2.5°	30461.0	30478.0	30415.0	30551.0	30445.0	30729.0	30588.0	30808.0	30734.0	30857.0
5°	28381.1	28353.1	28335.1	28546.1	28485.1	28790.1	28595.1	28531.1	28729.1	28693.1
7.5°	25240.2	25314.2	25272.2	25327.2	25358.2	25706.2	25816.2	25730.2	25733.2	25783.2
10°	22020.3	21911.3	21756.3	21859.3	22077.3	22229.3	22168.3	22294.3	22266.3	22385.3
12.5°	18058.4	18144.4	18057.4	17965.4	18346.4	18304.4	18410.4	18479.4	18306.4	18691.4
15°	13602.6	13647.6	13753.5	13746.5	14039.5	14098.5	14084.5	14157.5	14022.5	14086.5
17.5°	8738.7	8890.7	9175.7	9657.7	10199.7	10262.7	10246.7	10186.7	10121.7	10049.7
20°	5869.8	5853.8	5956.8	6097.8	7219.8	7516.8	7507.8	7319.8	7047.8	6995.8
22.5°	4111.9	4141.9	4127.9	4267.9	4499.9	5318.8	5217.8	5026.8	4937.8	4879.8
25°	2704.9	2693.9	2763.9	2805.9	3004.9	3104.9	3458.9	3387.9	3250.9	3265.9
27.5°	1648.9	1662.9	1688.9	1724.9	1865.9	1833.9	2035.9	2062.9	2018.9	1971.9
30°	1012.0	1022.0	1043.0	1069.0	1118.0	1083.0	1139.0	1236.0	1220.0	1187.0
32.5°	687.0	688.0	703.0	713.0	707.0	674.0	692.0	784.0	786.0	783.0
35°	494.0	494.0	508.0	516.0	499.0	472.0	475.0	532.0	557.0	562.0
37.5°	341.0	342.0	366.0	390.0	371.0	364.0	352.0	390.0	430.0	436.0
40°	259.0	258.0	270.0	288.0	290.0	277.0	281.0	305.0	346.0	351.0
42.5°	210.0	211.0	217.0	215.0	216.0	233.0	239.0	250.0	288.0	297.0
45°	177.0	178.0	181.0	171.0	167.0	193.0	201.0	207.0	239.0	250.0
47.5°	146.0	148.0	151.0	140.0	138.0	155.0	169.0	175.0	203.0	215.0
50°	105.0	107.0	118.0	112.0	118.0	122.0	141.0	150.0	169.0	185.0
52.5°	76.0	78.0	81.0	82.0	97.0	99.0	113.0	127.0	136.0	154.0
55°	60.0	62.0	60.0	58.0	71.0	82.0	87.0	102.0	109.0	130.0
57.5°	34.0	36.0	39.0	45.0	47.0	63.0	68.0	81.0	87.0	107.0
60°	6.0	7.0	11.0	27.0	33.0	40.0	51.0	62.0	70.0	84.0
62.5°	1.0	1.0	2.0	6.0	19.0	28.0	37.0	44.0	51.0	64.0
65°	0.0	0.0	1.0	2.0	5.0	16.0	20.0	26.0	35.0	46.0
67.5°	0.0	0.0	1.0	2.0	3.0	6.0	9.0	16.0	20.0	31.0
70°	0.0	0.0	1.0	2.0	3.0	4.0	5.0	7.0	12.0	19.0
72.5°	0.0	0.0	1.0	2.0	3.0	4.0	5.0	6.0	6.0	12.0
75°	0.0	0.0	1.0	2.0	3.0	5.0	6.0	6.0	5.0	5.0
77.5°	0.0	0.0	1.0	2.0	4.0	6.0	7.0	6.0	4.0	4.0
80°	0.0	0.0	2.0	3.0	5.0	7.0	9.0	7.0	4.0	2.0
82.5°	0.0	0.0	2.0	4.0	5.0	8.0	11.0	9.0	4.0	2.0
85°	0.0	0.0	1.0	3.0	6.0	8.0	11.0	8.0	4.0	1.0
87.5°	0.0	0.0	1.0	1.0	2.0	3.0	6.0	5.0	2.0	1.0
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°
31375.0	0°	31375.0	31375.0	31375.0	31375.0	31375.0	31375.0	31375.0	31375.0	31375.0
30624.0	2.5°	30800.0	30960.0	30993.0	30949.0	31013.0	30898.0	30810.0	30582.0	30445.0
28682.1	5°	28867.1	28843.1	29010.0	29065.0	29058.0	28970.0	28847.1	28709.1	28575.1
25686.2	7.5°	25846.1	25877.1	26029.1	26126.1	26077.1	25967.1	25882.1	25778.2	25688.2
22428.3	10°	22633.3	22420.3	22609.3	22609.3	22740.3	22429.3	22458.3	22196.3	22208.3
18684.4	12.5°	18748.4	18825.4	18856.4	18945.4	18792.4	18627.4	18425.4	18385.4	18260.4
13964.5	15°	14165.5	14385.5	14196.5	14519.5	14363.5	14191.5	14160.5	13850.5	13948.5
10128.7	17.5°	10078.7	10321.7	10397.7	10582.7	10440.7	10338.7	10209.7	10115.7	10108.7
7090.8	20°	7146.8	7390.8	7446.8	7668.7	7652.7	7620.7	7511.8	7392.8	7263.8
4826.8	22.5°	4899.8	5098.8	5284.8	5583.8	5578.8	5484.8	5473.8	5305.8	5308.8
3260.9	25°	3294.9	3439.9	3483.9	3789.9	3823.9	3813.9	3756.9	3600.9	3659.9
1991.9	27.5°	1993.9	2120.9	2269.9	2377.9	2479.9	2463.9	2406.9	2319.9	2281.9
1197.0	30°	1229.0	1286.0	1341.0	1471.0	1531.9	1563.9	1536.9	1456.0	1462.0
788.0	32.5°	805.0	853.0	893.0	975.0	1007.0	1066.0	1055.0	1038.0	1018.0
567.0	35°	587.0	622.0	649.0	687.0	728.0	778.0	786.0	779.0	771.0
438.0	37.5°	448.0	484.0	515.0	531.0	563.0	602.0	624.0	623.0	617.0
357.0	40°	364.0	391.0	419.0	440.0	462.0	491.0	518.0	521.0	521.0
300.0	42.5°	304.0	327.0	355.0	377.0	393.0	420.0	448.0	450.0	448.0
254.0	45°	260.0	280.0	307.0	333.0	346.0	366.0	393.0	399.0	395.0
218.0	47.5°	226.0	244.0	267.0	295.0	309.0	327.0	352.0	359.0	358.0
188.0	50°	194.0	215.0	238.0	261.0	279.0	296.0	320.0	328.0	325.0
160.0	52.5°	171.0	190.0	210.0	235.0	256.0	271.0	290.0	304.0	300.0
135.0	55°	143.0	166.0	187.0	208.0	234.0	250.0	268.0	285.0	281.0
114.0	57.5°	124.0	143.0	167.0	186.0	212.0	231.0	249.0	267.0	266.0
93.0	60°	104.0	124.0	147.0	167.0	191.0	212.0	230.0	250.0	252.0
70.0	62.5°	82.0	106.0	126.0	149.0	173.0	196.0	212.0	232.0	235.0
53.0	65°	62.0	87.0	109.0	131.0	155.0	180.0	194.0	211.0	214.0
39.0	67.5°	46.0	67.0	93.0	113.0	138.0	162.0	175.0	189.0	194.0
24.0	70°	35.0	51.0	78.0	97.0	123.0	142.0	156.0	168.0	172.0
16.0	72.5°	22.0	40.0	63.0	83.0	106.0	123.0	133.0	140.0	146.0
9.0	75°	15.0	31.0	51.0	71.0	88.0	101.0	110.0	116.0	121.0
4.0	77.5°	9.0	24.0	42.0	59.0	70.0	80.0	89.0	93.0	96.0
3.0	80°	5.0	18.0	35.0	48.0	55.0	62.0	69.0	74.0	76.0
2.0	82.5°	3.0	14.0	28.0	37.0	40.0	47.0	54.0	57.0	57.0
1.0	85°	2.0	10.0	19.0	27.0	29.0	34.0	36.0	38.0	40.0
1.0	87.5°	2.0	6.0	12.0	15.0	16.0	18.0	19.0	21.0	23.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
<u>31375.0</u>
30344.0
28425.1
25383.2
22091.3
18146.4
13850.5
9922.7
7207.8
5250.8
3566.9
2248.9
1436.0
1011.0
768.0
614.0
515.0
446.0
395.0
356.0
323.0
299.0
283.0
267.0
253.0
237.0
217.0
196.0
174.0
145.0
120.0
95.0
74.0
56.0
39.0
22.0
0.0

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