

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: P638002

Luminaire Tested: **IFLD-M-SA4D-827-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638002  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-827-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (64) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19391.2 lumens  
Efficiency: N/A  
Efficacy: 77.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G1

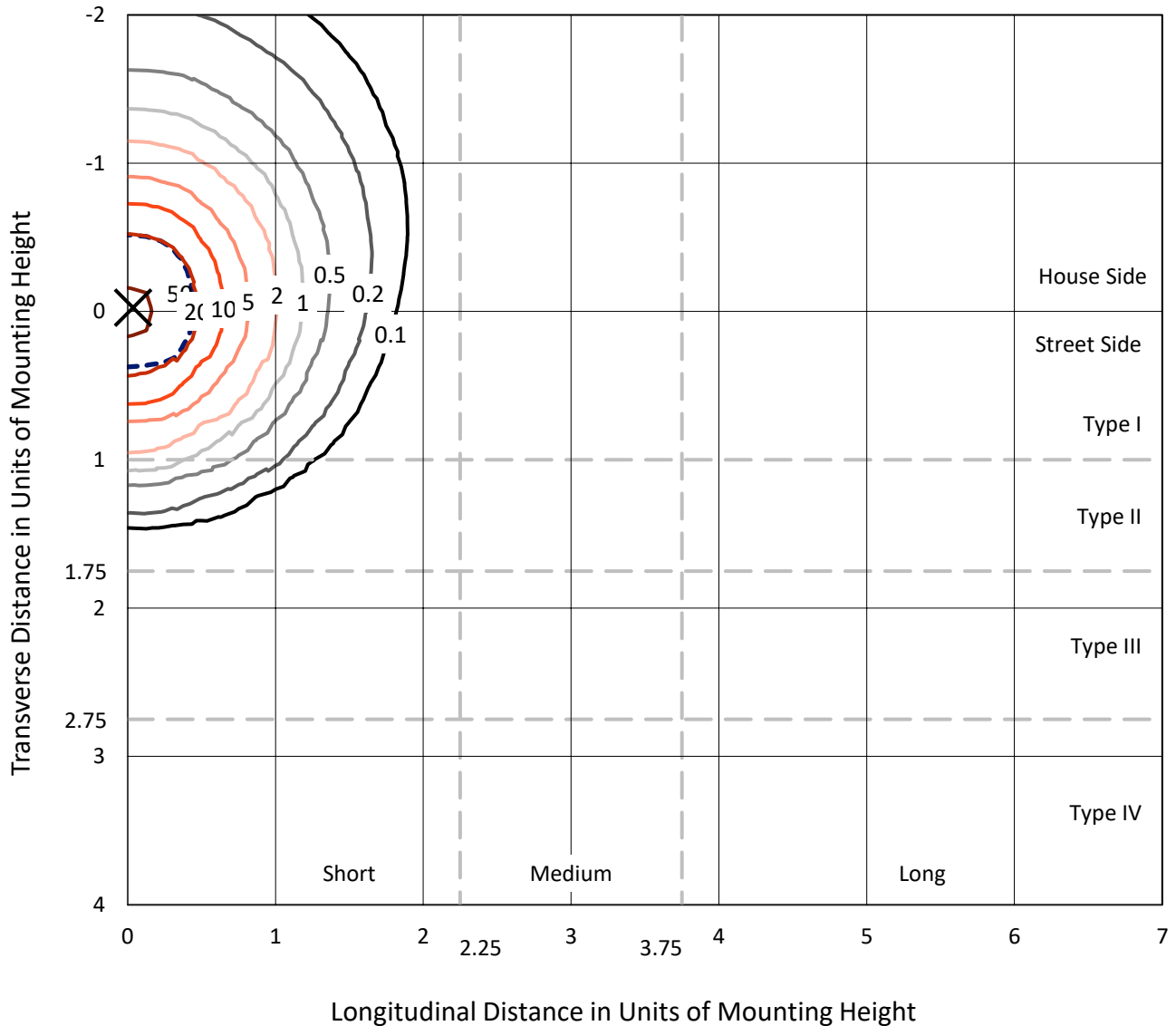
Input Watts (W): 249.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

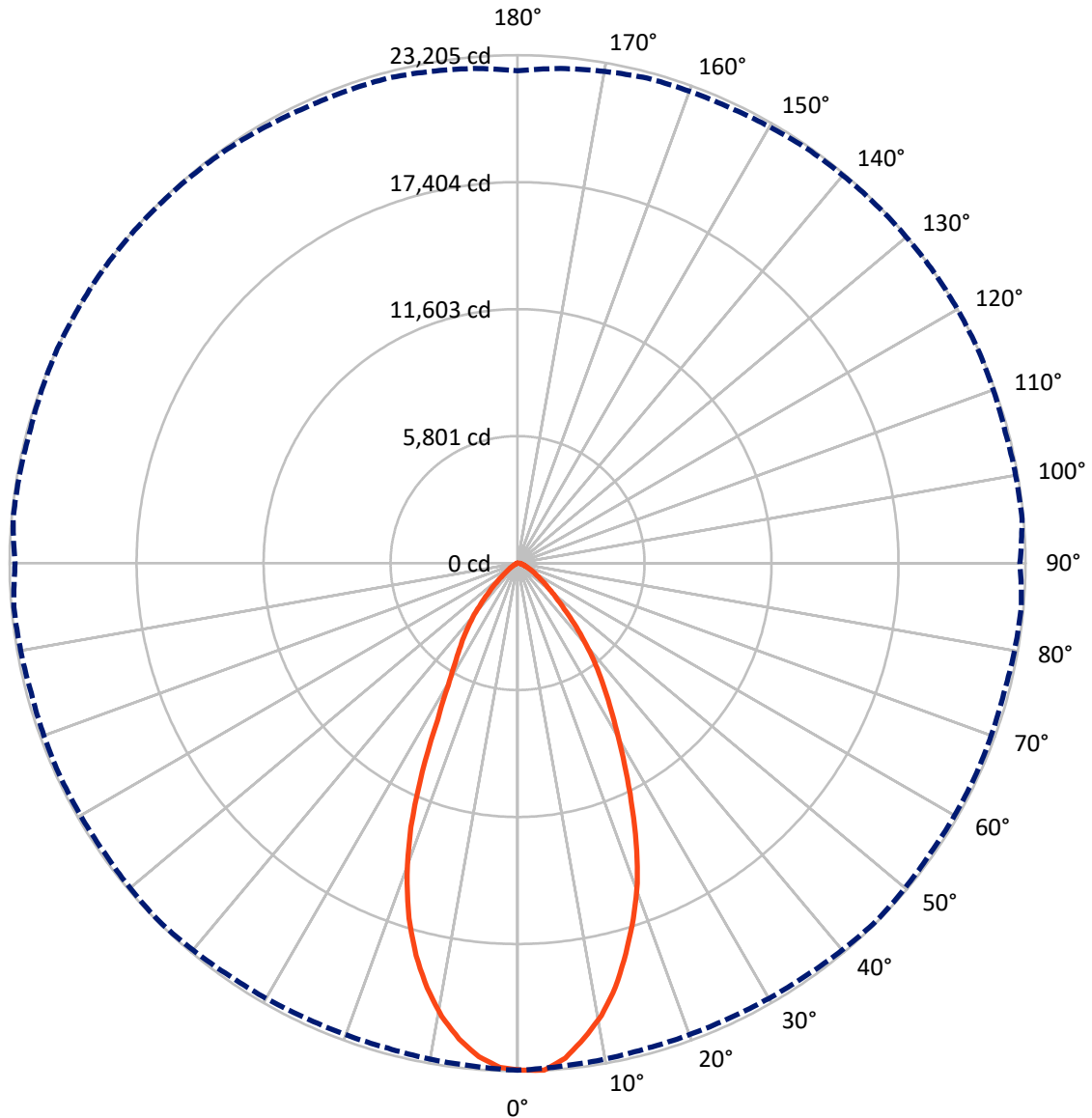
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 57.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11003.3	0.0	11003.3
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	8387.9	0.0	8387.9
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	19391.2	0.0	19391.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2103.7	10.8
10°-20°	5014.8	25.9
20°-30°	5107.5	26.3
30°-40°	3808.6	19.6
40°-50°	1989.7	10.3
50°-60°	836.9	4.3
60°-70°	341.8	1.8
70°-80°	143.8	0.7
80°-90°	44.3	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°	19391.2	100.0
0°-180°	19391.2	100.0



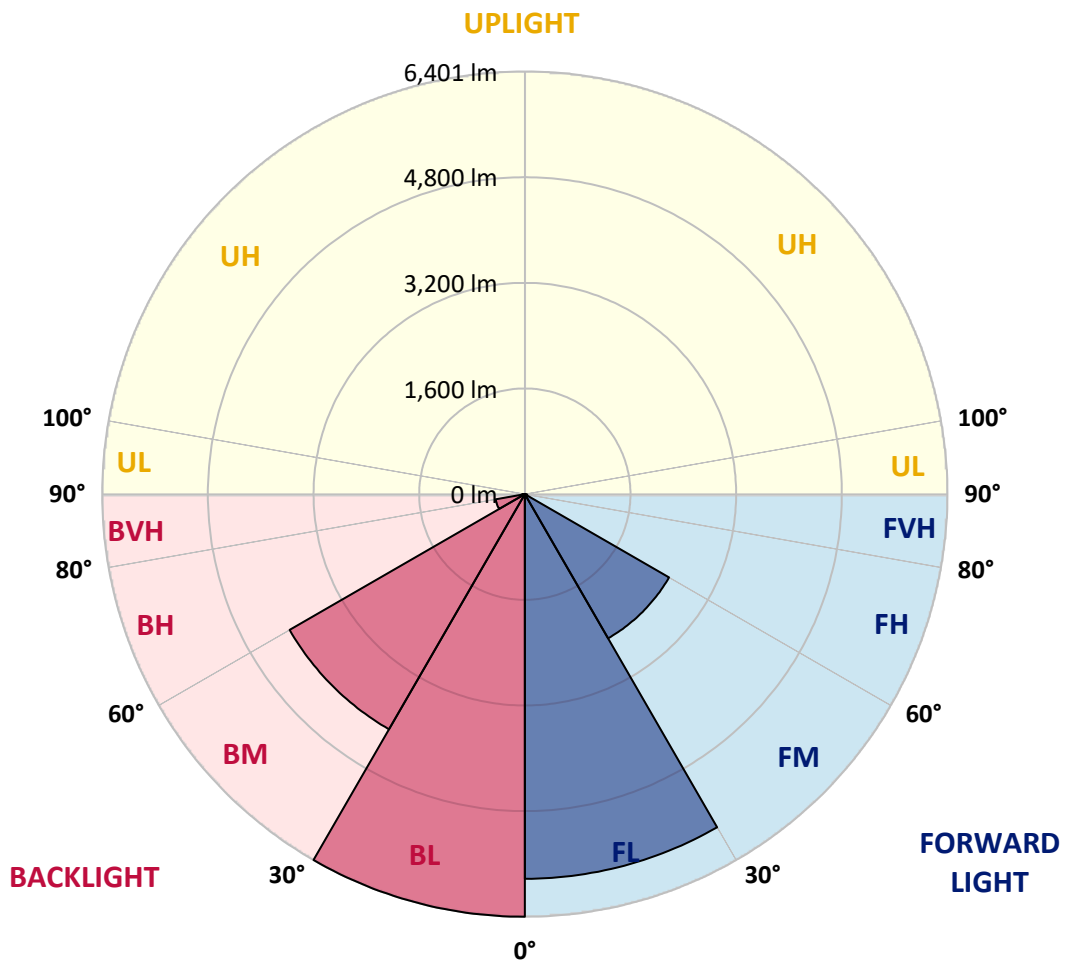
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5825.4	30.0			
FM	(30°-60°)	2521.9	13.0			
FH	(60°-80°)	36.5	0.2			G0/660
FVH	(80°-90°)	4.1	0.0			G0/10
BL	(0°-30°)	6400.6	33.0	B5		
BM	(30°-60°)	4113.4	21.2	B3/5000		
BH	(60°-80°)	449.1	2.3	B1/500		G1/500
BVH	(80°-90°)	40.2	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 I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	23167.8	23167.8	23167.8	23167.8	23167.8	23167.8	23167.8	23167.8	23167.8	23167.8
2.5°	23170.3	23075.6	22941.1	22928.7	22998.4	23150.3	23053.2	23058.2	22998.4	23100.5
5°	22806.6	22716.9	22624.8	22502.7	22604.8	22669.6	22619.8	22565.0	22487.8	22587.4
7.5°	22119.1	22069.3	21932.3	21877.5	21939.8	22012.0	21904.9	21890.0	21782.9	21912.4
10°	21068.0	21048.0	20913.5	20881.1	20935.9	21045.5	20998.2	20988.3	20921.0	20908.5
12.5°	19977.0	19899.7	19732.8	19722.9	19805.1	19969.5	19842.4	19720.4	19757.8	19790.1
15°	17167.2	17085.0	17498.5	18148.6	18489.9	18477.4	18514.8	18367.8	18323.0	18337.9
17.5°	13647.6	13508.1	13657.6	14663.9	16285.5	17227.0	16968.0	16651.6	16482.2	16370.1
20°	11779.4	11786.9	11759.5	12018.6	13029.9	15177.0	15114.7	14504.5	14282.8	14190.6
22.5°	10643.6	10601.2	10541.5	10623.7	10895.2	12155.6	13000.0	12439.5	12362.3	12260.2
25°	9530.2	9530.2	9457.9	9540.1	9617.3	9634.8	10481.7	10710.8	10561.4	10561.4
27.5°	8566.2	8516.4	8484.0	8521.3	8419.2	7928.5	8035.6	9208.8	9106.7	9044.4
30°	7609.7	7594.7	7539.9	7589.7	7211.1	6658.2	6434.0	7771.6	7878.7	7856.3
32.5°	6282.0	6341.8	6585.9	6663.1	6015.5	5569.6	5355.4	6451.4	6879.8	6862.4
35°	4269.4	4319.2	4598.2	5519.8	4986.8	4667.9	4605.7	5131.2	5836.2	5903.4
37.5°	3400.1	3392.6	3472.3	3636.7	4007.8	3930.6	3913.2	4050.2	4760.1	4790.0
40°	2802.3	2792.3	2789.8	2655.3	2563.1	3268.1	3220.7	3138.5	3753.8	3813.6
42.5°	2259.2	2269.2	2276.7	1982.7	1848.2	2520.8	2493.4	2408.7	2944.2	3014.0
45°	1773.5	1771.0	1786.0	1477.1	1439.7	1611.6	1863.2	1795.9	2221.9	2296.6
47.5°	919.1	951.5	1153.3	1143.3	1160.8	1143.3	1409.8	1392.4	1671.4	1791.0
50°	617.7	627.7	645.1	647.6	914.2	841.9	956.5	1083.5	1170.7	1355.0
52.5°	478.3	485.7	440.9	413.5	560.5	622.7	627.7	749.8	817.0	1003.8
55°	266.5	298.9	321.3	323.8	308.9	460.8	458.3	555.5	607.8	732.3
57.5°	34.9	42.3	64.8	209.2	206.7	256.6	321.3	403.5	433.4	535.5
60°	2.5	5.0	7.5	32.4	137.0	149.5	219.2	251.6	301.4	376.1
62.5°	0.0	0.0	2.5	7.5	27.4	87.2	114.6	132.0	176.9	246.6
65°	0.0	0.0	2.5	5.0	10.0	32.4	44.8	72.2	104.6	151.9
67.5°	0.0	0.0	2.5	5.0	7.5	12.5	19.9	32.4	54.8	92.2
70°	0.0	0.0	2.5	5.0	7.5	10.0	14.9	19.9	29.9	49.8
72.5°	0.0	0.0	2.5	2.5	5.0	12.5	12.5	14.9	19.9	27.4
75°	0.0	0.0	2.5	5.0	7.5	12.5	12.5	12.5	14.9	17.4
77.5°	0.0	0.0	2.5	5.0	7.5	12.5	10.0	12.5	12.5	12.5
80°	0.0	0.0	2.5	5.0	7.5	12.5	14.9	12.5	10.0	10.0
82.5°	0.0	0.0	2.5	7.5	7.5	17.4	17.4	17.4	7.5	7.5
85°	0.0	0.0	5.0	7.5	12.5	19.9	19.9	14.9	7.5	5.0
87.5°	0.0	0.0	2.5	5.0	5.0	10.0	14.9	12.5	5.0	2.5
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°
23167.8	0°	23167.8	23167.8	23167.8	23167.8	23167.8	23167.8	23167.8	23167.8	23167.8
22951.1	2.5°	23135.4	23073.1	23190.2	23205.1	23155.3	23093.1	22948.6	22936.1	22684.6
22442.9	5°	22697.0	22594.9	22669.6	22719.4	22702.0	22634.7	22575.0	22520.2	22293.5
21618.5	7.5°	21880.0	21842.6	21877.5	21914.9	21987.1	21914.9	21890.0	21832.7	21608.5
20806.4	10°	20973.3	20903.6	21035.6	21018.1	20998.2	20978.3	20873.7	20883.6	20619.6
19700.5	12.5°	19859.9	19742.8	19869.8	19884.8	19869.8	19800.1	19683.0	19732.8	19491.2
18205.9	15°	18362.9	18350.4	18442.6	18502.3	18544.7	18470.0	18430.1	18455.0	18310.5
16283.0	17.5°	16524.6	16686.5	16987.9	17090.0	17092.5	17169.7	17147.3	17117.4	17010.3
14153.2	20°	14362.5	14673.8	15137.2	15612.9	15749.9	15685.1	15655.3	15710.1	15550.6
12153.1	22.5°	12367.3	12633.8	13171.8	13866.8	14267.8	14307.7	14300.2	14252.9	14190.6
10551.4	25°	10673.5	10910.1	11425.7	12060.9	12830.6	12945.2	12950.1	12935.2	12880.4
9099.2	27.5°	9243.7	9530.2	9814.1	10382.0	11201.5	11674.8	11615.0	11597.6	11577.7
7873.7	30°	7948.4	8309.6	8576.1	8929.8	9664.7	10304.8	10367.1	10337.2	10289.9
6859.9	32.5°	6922.2	7136.4	7475.2	7714.3	8242.4	8967.2	9206.3	9183.9	9141.6
5945.8	35°	6030.4	6115.1	6381.7	6648.2	6999.4	7701.8	8055.5	8005.7	7998.3
4844.8	37.5°	4966.8	5250.8	5397.8	5666.8	5913.4	6458.9	6947.1	6924.7	6927.2
3895.8	40°	4010.3	4174.7	4466.2	4692.8	4919.5	5318.1	5861.1	5876.0	5871.0
3016.5	42.5°	3078.7	3238.2	3544.5	3791.1	3992.9	4239.5	4757.6	4775.0	4797.5
2348.9	45°	2403.7	2505.8	2730.0	2986.6	3200.8	3350.2	3743.8	3855.9	3858.4
1820.8	47.5°	1865.7	1982.7	2142.2	2388.8	2598.0	2705.1	2991.6	3143.5	3136.0
1397.4	50°	1464.6	1571.8	1701.3	1895.6	2122.2	2206.9	2418.7	2568.1	2560.6
1053.6	52.5°	1120.9	1257.9	1372.5	1521.9	1743.6	1815.9	1967.8	2139.7	2114.8
772.2	55°	849.4	988.9	1096.0	1220.5	1422.3	1514.5	1619.1	1756.1	1761.1
597.8	57.5°	640.2	784.6	881.8	1008.8	1160.8	1262.9	1342.6	1489.6	1487.1
408.5	60°	458.3	582.9	699.9	832.0	949.0	1066.1	1120.9	1260.4	1265.4
288.9	62.5°	331.3	448.4	560.5	675.0	779.6	894.2	944.0	1053.6	1068.6
189.3	65°	231.7	313.9	443.4	530.6	647.6	732.3	797.1	891.7	909.2
112.1	67.5°	149.5	226.7	351.2	428.4	535.5	607.8	675.0	749.8	772.2
72.2	70°	89.7	171.9	261.5	343.7	440.9	505.7	570.4	635.2	647.6
34.9	72.5°	57.3	119.6	189.3	279.0	353.7	423.5	480.7	528.1	490.7
22.4	75°	32.4	82.2	149.5	219.2	286.5	353.7	401.0	425.9	341.3
14.9	77.5°	19.9	59.8	122.1	176.9	221.7	284.0	313.9	328.8	244.1
10.0	80°	12.5	44.8	102.1	144.5	144.5	209.2	244.1	256.6	176.9
7.5	82.5°	10.0	32.4	79.7	109.6	97.1	156.9	191.8	194.3	124.5
5.0	85°	7.5	24.9	49.8	72.2	67.3	109.6	112.1	124.5	82.2
5.0	87.5°	5.0	14.9	29.9	42.3	37.4	52.3	59.8	67.3	44.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
23167.8
22487.8
22111.6
21561.2
20529.9
19421.5
18136.2
16850.9
15436.1
14071.0
12696.1
11460.6
10230.1
9029.5
7916.1
6847.5
5783.9
4722.7
3793.6
3108.6
2560.6
2117.3
1761.1
1482.1
1252.9
1063.6
904.2
769.7
637.7
455.8
323.8
229.2
164.4
114.6
74.7
39.9
0.0

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