

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: P638259

Luminaire Tested: **IFLD-S-SA6E-827-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638259  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-827-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (96) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29918.4 lumens  
Efficiency: N/A  
Efficacy: 64.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 464.2  
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

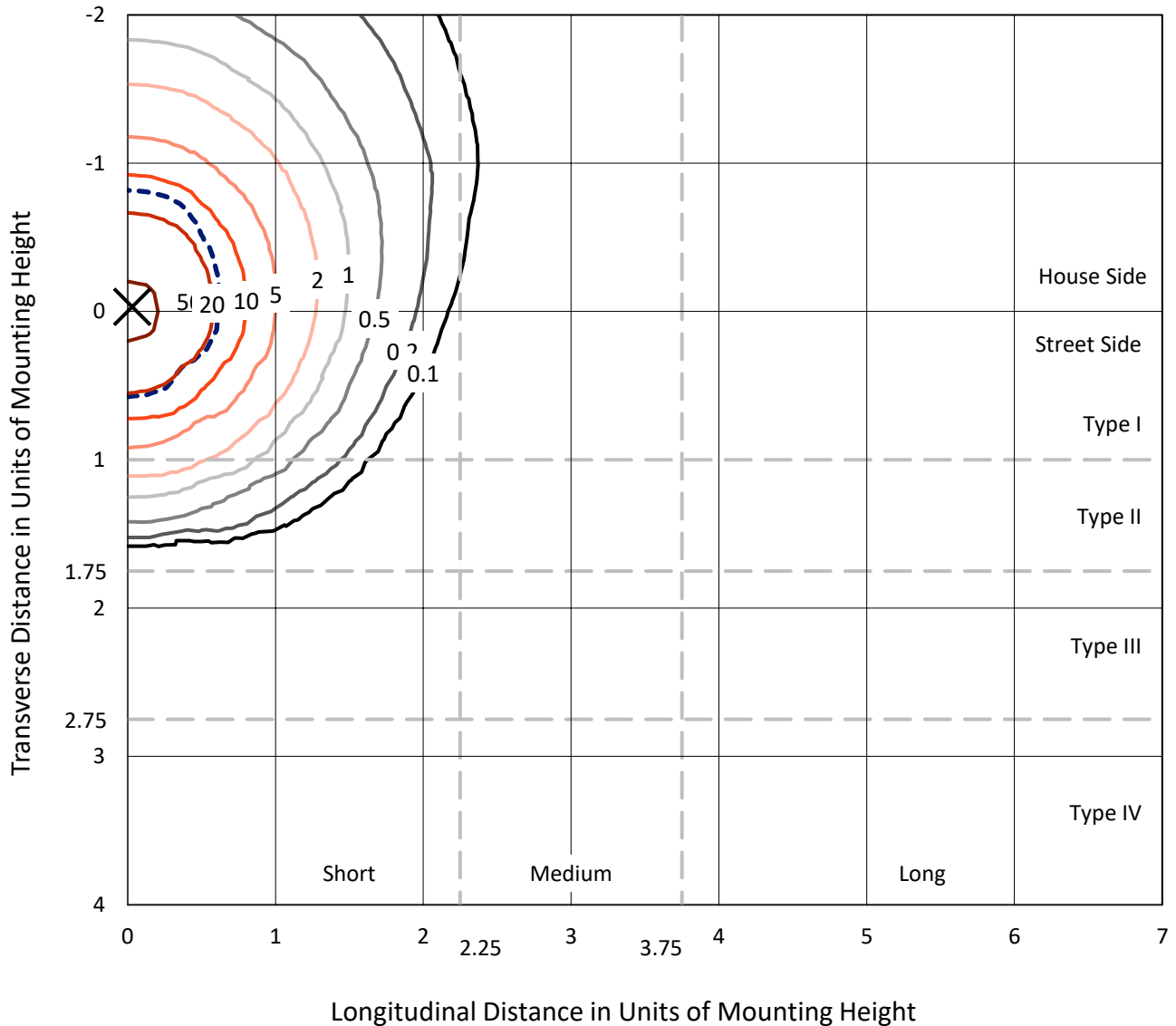




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### Iso-Footcandle Lines of Horizontal Illumination

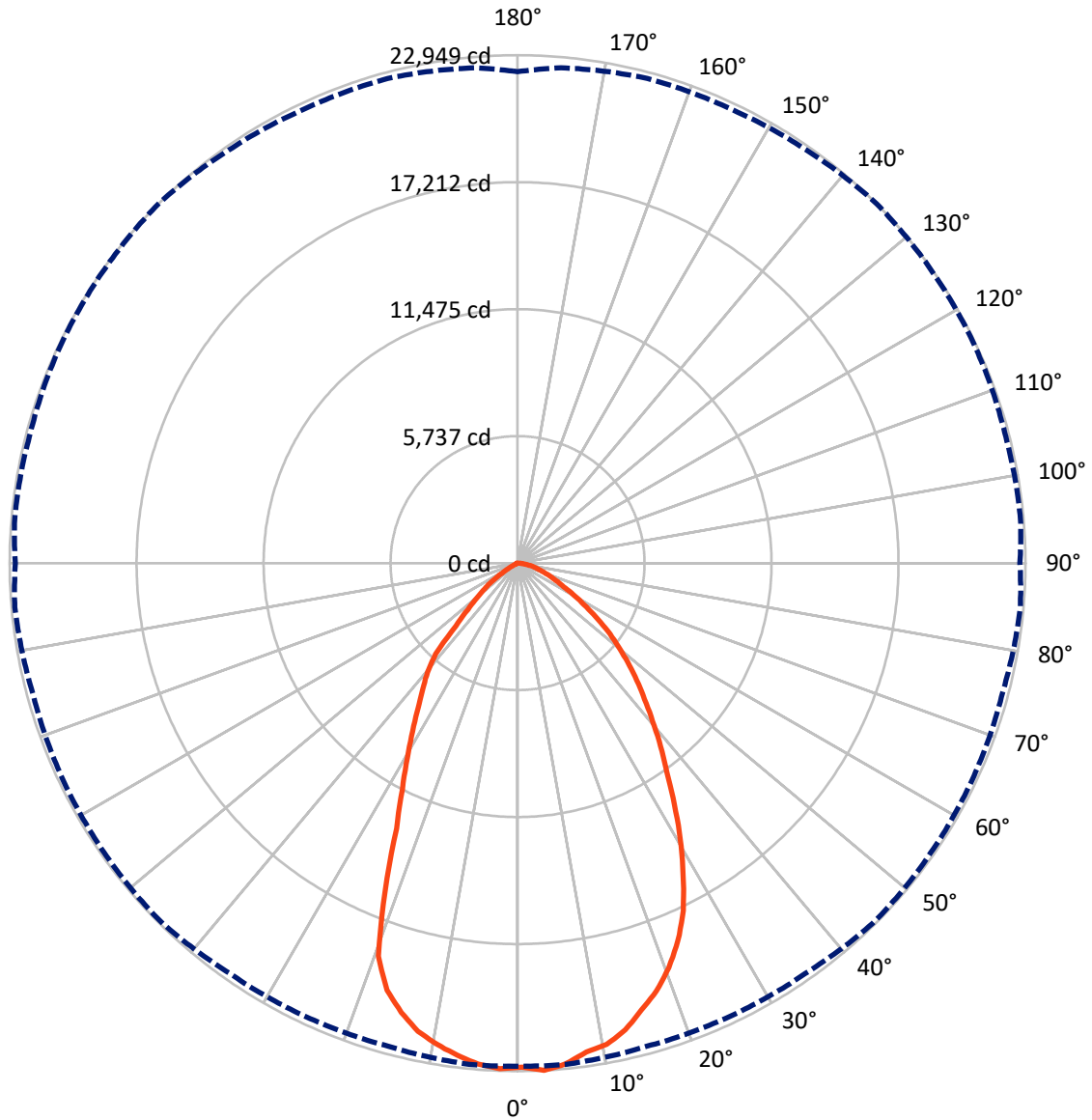
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 56.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17719.2	0.0	17719.2
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	12199.2	0.0	12199.2
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	29918.4	0.0	29918.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2135.3	7.1
10°-20°	5725.8	19.1
20°-30°	6983.0	23.3
30°-40°	6375.4	21.3
40°-50°	4607.3	15.4
50°-60°	2515.7	8.4
60°-70°	1040.1	3.5
70°-80°	421.3	1.4
80°-90°	114.6	0.4
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°	29918.4	100.0
0°-180°	29918.4	100.0



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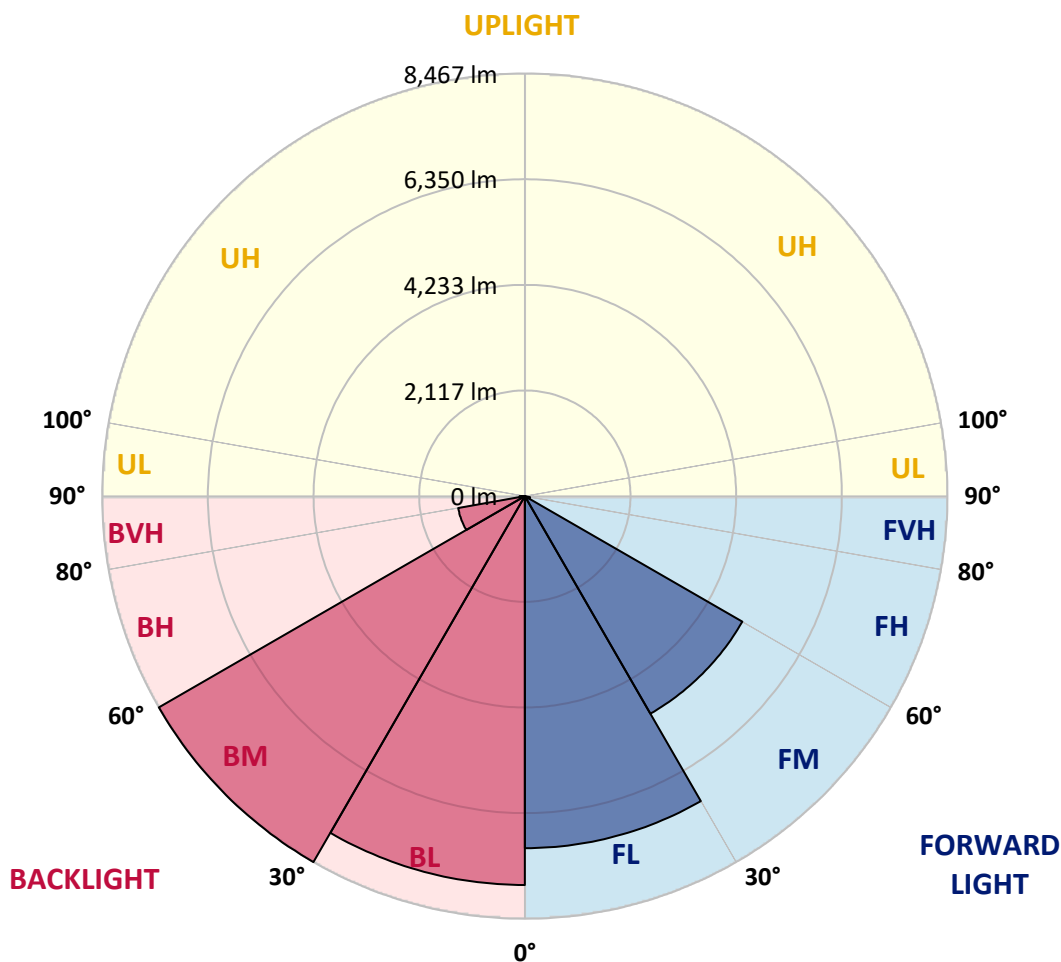
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7052.9	23.6			
FM (30°-60°)	5031.7	16.8			
FH (60°-80°)	105.4	0.4			G0/660
FVH (80°-90°)	9.2	0.0			G0/10
BL (0°-30°)	7791.2	26.0	B5		
BM (30°-60°)	8466.7	28.3	B4/8500		
BH (60°-80°)	1356.0	4.5	B3/2500		G3/2500
BVH (80°-90°)	105.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	22767.8	22767.8	22767.8	22767.8	22767.8	22767.8	22767.8	22767.8	22767.8	22767.8
2.5°	22725.7	22755.2	22595.1	22612.0	22641.4	22856.3	22801.5	22751.0	22679.4	22801.5
5°	22696.2	22713.1	22544.5	22485.6	22510.8	22704.6	22527.7	22527.7	22510.8	22489.8
7.5°	22468.7	22477.1	22346.5	22241.2	22308.6	22397.1	22266.5	22329.7	22237.0	22308.6
10°	22127.4	22072.7	21916.8	21887.3	21963.1	22047.4	21958.9	22017.9	21933.6	21988.4
12.5°	21626.1	21541.8	21415.4	21377.5	21508.1	21621.9	21550.2	21516.5	21407.0	21541.8
15°	19692.2	19629.0	19915.5	20416.9	20867.7	20964.6	20888.8	20922.5	20695.0	20732.9
17.5°	16208.0	16090.0	16397.6	17585.7	19279.4	20172.5	20105.1	19886.1	19549.0	19624.8
20°	14729.2	14695.5	14661.7	14944.0	16127.9	18837.0	18929.7	18373.5	17893.2	17787.9
22.5°	13895.0	13882.3	13848.6	13911.8	14223.6	15963.6	17025.3	16511.3	16191.1	16161.6
25°	13132.4	13111.3	13010.2	13090.2	13090.2	13191.4	14552.2	14864.0	14581.7	14548.0
27.5°	12357.2	12319.2	12302.4	12340.3	12146.5	11464.0	11809.4	13330.4	13182.9	13191.4
30°	11518.7	11506.1	11459.8	11539.8	10941.5	10094.7	9875.6	11940.1	11969.5	11961.1
32.5°	10271.7	10326.4	10537.1	10625.6	9639.7	8940.3	8573.8	10330.6	10933.1	10920.5
35°	7461.5	7461.5	8148.2	9424.8	8447.4	7920.7	7722.7	8759.1	9909.3	9951.5
37.5°	6134.3	6155.4	6290.2	6871.6	7288.7	7103.4	7044.4	7373.0	8594.8	8662.2
40°	5519.2	5519.2	5519.2	5279.1	5266.4	6399.8	6366.1	6260.7	7423.6	7571.0
42.5°	4958.9	4971.5	4979.9	4373.2	4036.2	5531.9	5456.0	5295.9	6374.5	6547.2
45°	4381.7	4402.7	4428.0	3657.0	3509.6	3981.4	4617.6	4440.7	5338.1	5561.4
47.5°	2675.3	2709.1	3282.0	3100.9	3117.7	3071.4	3766.6	3737.1	4377.5	4693.4
50°	1807.4	1820.1	1874.9	1967.5	2675.3	2414.1	2666.9	3092.4	3324.2	3804.5
52.5°	1516.7	1537.8	1403.0	1276.6	1756.9	1887.5	1862.2	2296.2	2388.9	2982.9
55°	1065.9	1133.3	1070.1	1057.5	998.5	1466.2	1411.4	1765.3	1824.3	2266.7
57.5°	109.5	126.4	219.1	787.9	653.0	830.0	1006.9	1293.4	1352.4	1672.6
60°	8.4	8.4	21.1	109.5	476.1	497.2	695.2	796.3	910.0	1167.0
62.5°	0.0	4.2	8.4	16.9	75.8	265.4	349.7	417.1	547.7	754.2
65°	0.0	0.0	4.2	12.6	16.9	101.1	134.8	219.1	299.1	467.7
67.5°	0.0	0.0	4.2	8.4	12.6	25.3	46.3	80.0	160.1	265.4
70°	0.0	0.0	4.2	8.4	12.6	21.1	33.7	50.6	71.6	143.2
72.5°	0.0	0.0	4.2	4.2	8.4	21.1	25.3	33.7	50.6	71.6
75°	0.0	0.0	4.2	4.2	12.6	25.3	21.1	25.3	33.7	46.3
77.5°	0.0	0.0	4.2	8.4	12.6	25.3	21.1	25.3	25.3	29.5
80°	0.0	0.0	4.2	8.4	16.9	29.5	25.3	25.3	21.1	21.1
82.5°	0.0	0.0	4.2	12.6	16.9	37.9	37.9	33.7	16.9	12.6
85°	0.0	0.0	8.4	16.9	25.3	42.1	42.1	33.7	12.6	8.4
87.5°	0.0	0.0	8.4	12.6	21.1	29.5	42.1	33.7	12.6	4.2
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°
22767.8	0°	22767.8	22767.8	22767.8	22767.8	22767.8	22767.8	22767.8	22767.8	22767.8
22696.2	2.5°	22810.0	22784.7	22869.0	22902.7	22949.0	22772.1	22662.5	22666.7	22464.5
22439.2	5°	22574.0	22578.3	22687.8	22679.4	22725.7	22628.8	22586.7	22515.1	22338.1
22114.8	7.5°	22274.9	22237.0	22342.3	22422.4	22304.4	22371.8	22274.9	22308.6	22203.3
21828.3	10°	22043.2	21954.7	22051.6	22106.4	22110.6	22043.2	21950.5	21862.0	21824.1
21381.7	12.5°	21529.2	21415.4	21579.7	21655.6	21642.9	21512.3	21407.0	21428.1	21305.9
20598.1	15°	20821.4	20825.6	20943.6	21015.2	20947.8	20918.3	20926.7	20876.1	20770.8
19515.3	17.5°	19738.6	19801.8	20113.6	20286.3	20324.2	20265.2	20235.7	20176.8	20071.4
17787.9	20°	17935.4	18314.5	18870.7	19405.8	19511.1	19494.2	19388.9	19363.6	19304.6
16077.4	22.5°	16351.2	16633.5	17278.1	18112.3	18542.1	18584.2	18457.8	18419.9	18356.7
14548.0	25°	14712.3	15015.7	15597.1	16502.9	17391.9	17573.0	17552.0	17438.2	17370.8
13191.4	27.5°	13330.4	13633.7	14160.4	14977.7	15929.9	16511.3	16566.1	16384.9	16380.7
11982.2	30°	12083.3	12500.4	12900.7	13566.3	14489.0	15361.1	15453.8	15327.4	15340.1
10874.1	32.5°	11105.9	11451.3	11792.6	12239.2	13006.0	14021.4	14383.7	14265.7	14219.4
9951.5	35°	10107.3	10343.3	10693.0	11101.6	11624.1	12631.0	13258.8	13170.3	13124.0
8704.4	37.5°	8969.8	9374.3	9627.0	10086.3	10494.9	11295.4	12180.2	12167.6	12070.7
7642.6	40°	7802.7	8228.3	8611.7	9075.1	9391.1	10027.3	11009.0	11004.7	11017.4
6543.0	42.5°	6745.2	7137.1	7600.5	8106.1	8409.4	8872.9	9926.2	9985.2	10056.8
5637.2	45°	5788.9	6142.8	6572.5	7187.6	7554.2	7819.6	8754.9	9024.6	9020.3
4828.3	47.5°	4929.4	5262.2	5624.6	6222.8	6690.5	6930.6	7705.8	8089.2	8064.0
3960.4	50°	4137.3	4432.2	4811.4	5245.4	5873.1	6083.8	6661.0	7166.6	7128.6
3155.6	52.5°	3328.4	3737.1	4057.3	4453.3	5114.8	5321.2	5767.8	6260.7	6231.2
2367.8	55°	2595.3	2991.3	3378.9	3720.2	4276.3	4583.9	4904.1	5409.7	5401.3
1853.8	57.5°	1963.3	2397.3	2763.8	3088.2	3530.6	3909.8	4166.8	4626.0	4685.0
1268.2	60°	1453.5	1786.4	2182.4	2544.7	2894.4	3286.3	3459.0	3909.8	3935.1
867.9	62.5°	990.1	1356.6	1744.2	2072.9	2334.1	2738.5	2894.4	3265.2	3311.5
556.1	65°	686.7	922.7	1365.1	1601.0	1921.2	2266.7	2422.6	2717.5	2810.2
320.2	67.5°	455.0	657.3	1065.9	1280.8	1596.8	1832.7	2030.7	2270.9	2372.0
202.2	70°	248.6	484.5	762.6	1011.2	1285.0	1512.5	1706.3	1900.1	1988.6
92.7	72.5°	168.5	324.4	530.9	800.5	1036.4	1259.7	1432.5	1575.7	1579.9
54.8	75°	84.3	219.1	404.5	619.3	808.9	1028.0	1183.9	1268.2	1167.0
33.7	77.5°	50.6	160.1	328.6	497.2	657.3	830.0	918.5	964.8	800.5
25.3	80°	29.5	113.8	257.0	396.0	455.0	610.9	695.2	707.8	535.1
16.9	82.5°	21.1	84.3	202.2	290.7	278.1	429.7	522.4	505.6	341.3
12.6	85°	12.6	59.0	126.4	181.2	168.5	282.3	303.3	311.8	198.0
8.4	87.5°	8.4	33.7	67.4	96.9	80.0	122.2	122.2	147.5	96.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
22767.8
22203.3
22296.0
22026.3
21655.6
21200.6
20665.5
20025.1
19169.8
18339.8
17299.2
16372.3
15276.9
14223.6
13060.8
12150.7
11017.4
10018.9
9028.8
8072.4
7162.3
6294.4
5422.3
4659.7
3973.0
3320.0
2789.1
2359.4
1954.9
1542.0
1091.2
771.0
501.4
316.0
181.2
84.3
0.0

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