

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: P636808

Luminaire Tested: **IFLD-S-SA6D-940-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636808  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-940-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (96) 4000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25412.8 lumens  
Efficiency: N/A  
Efficacy: 69.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

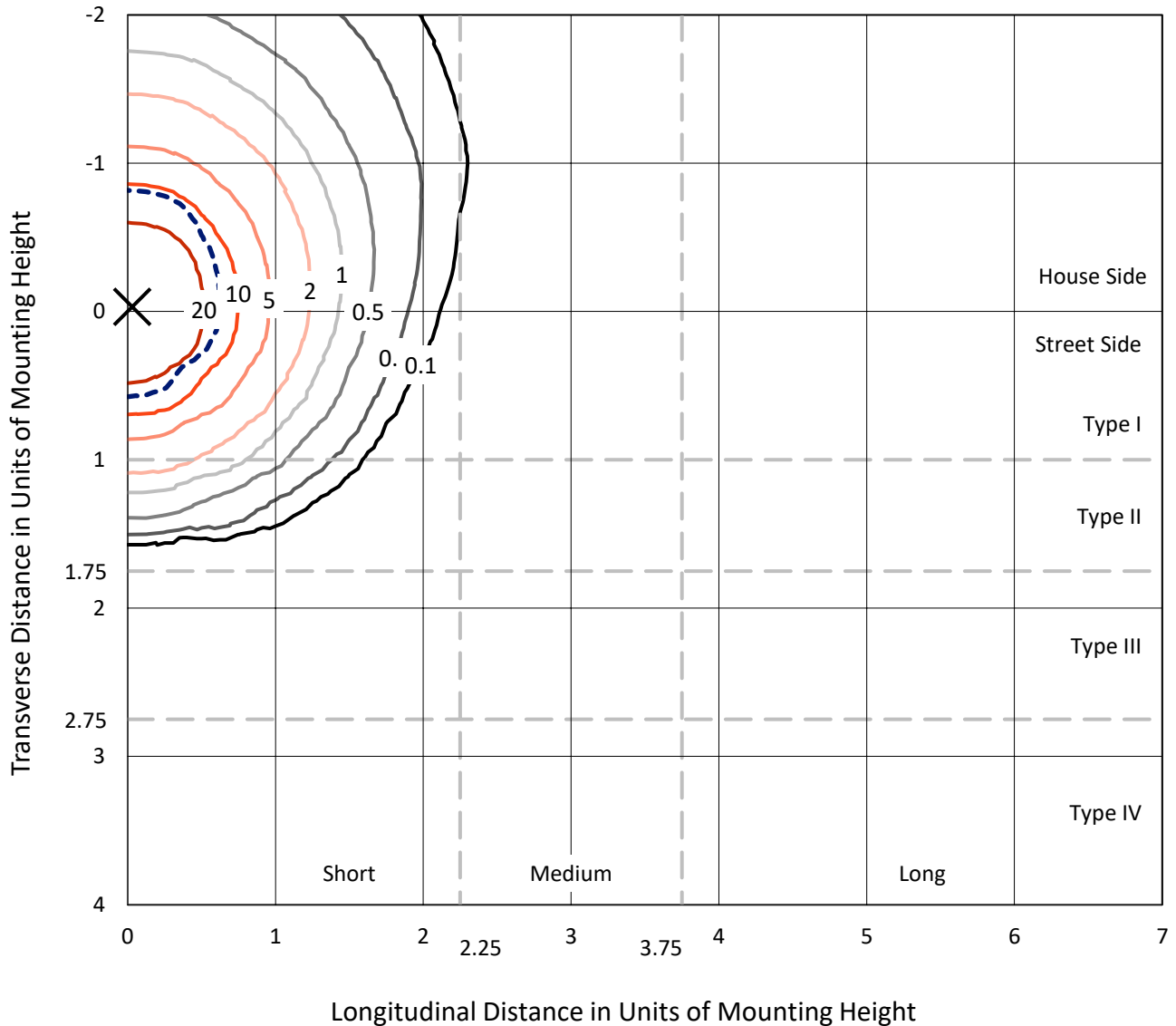
Input Watts (W): 368.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

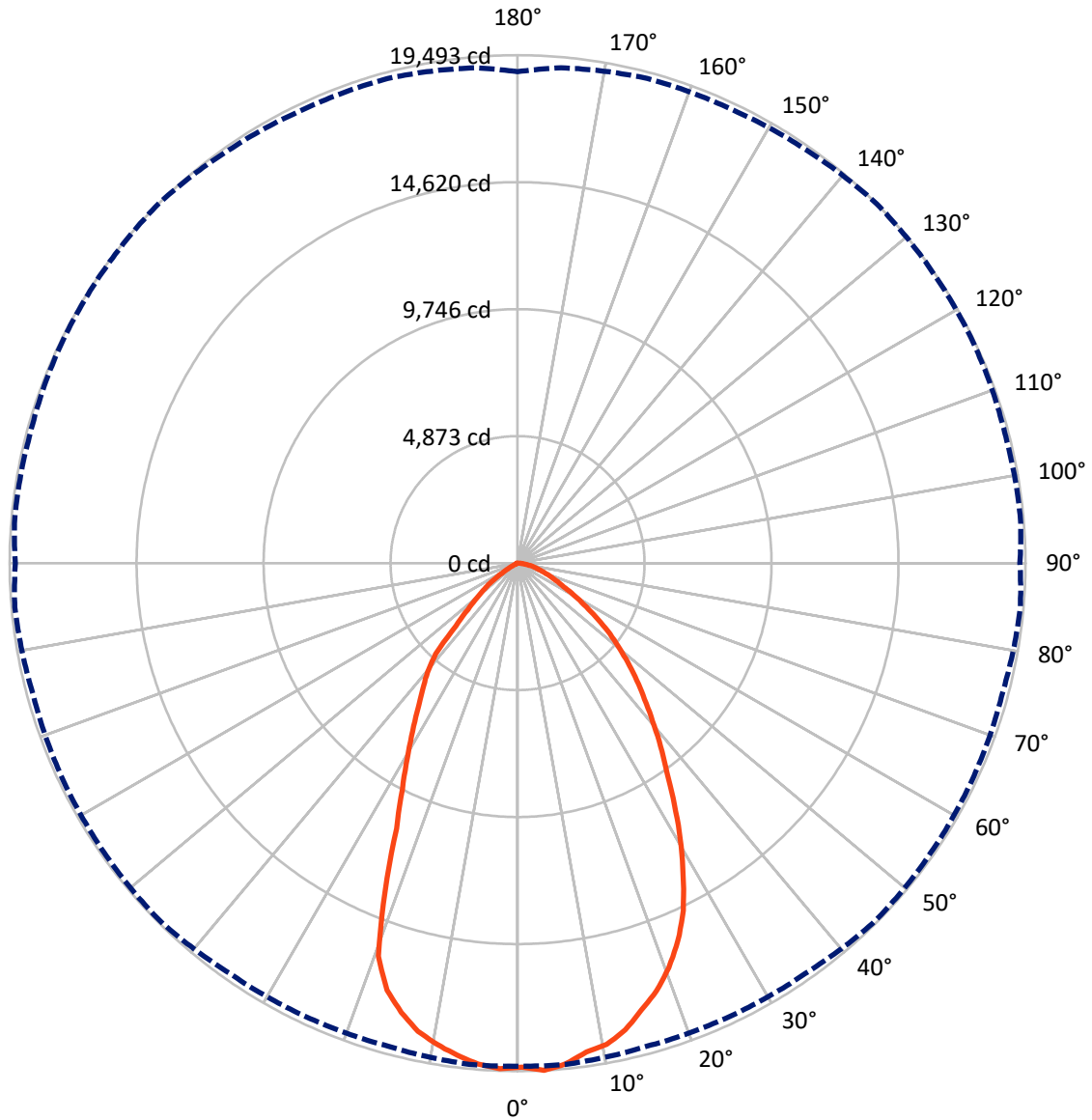
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 48.3 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	15050.7	0.0	15050.7
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	10362.0	0.0	10362.0
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	25412.8	0.0	25412.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1813.7	7.1
10°-20°	4863.5	19.1
20°-30°	5931.4	23.3
30°-40°	5415.3	21.3
40°-50°	3913.5	15.4
50°-60°	2136.8	8.4
60°-70°	883.5	3.5
70°-80°	357.8	1.4
80°-90°	97.3	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°	25412.8	100.0
0°-180°	25412.8	100.0



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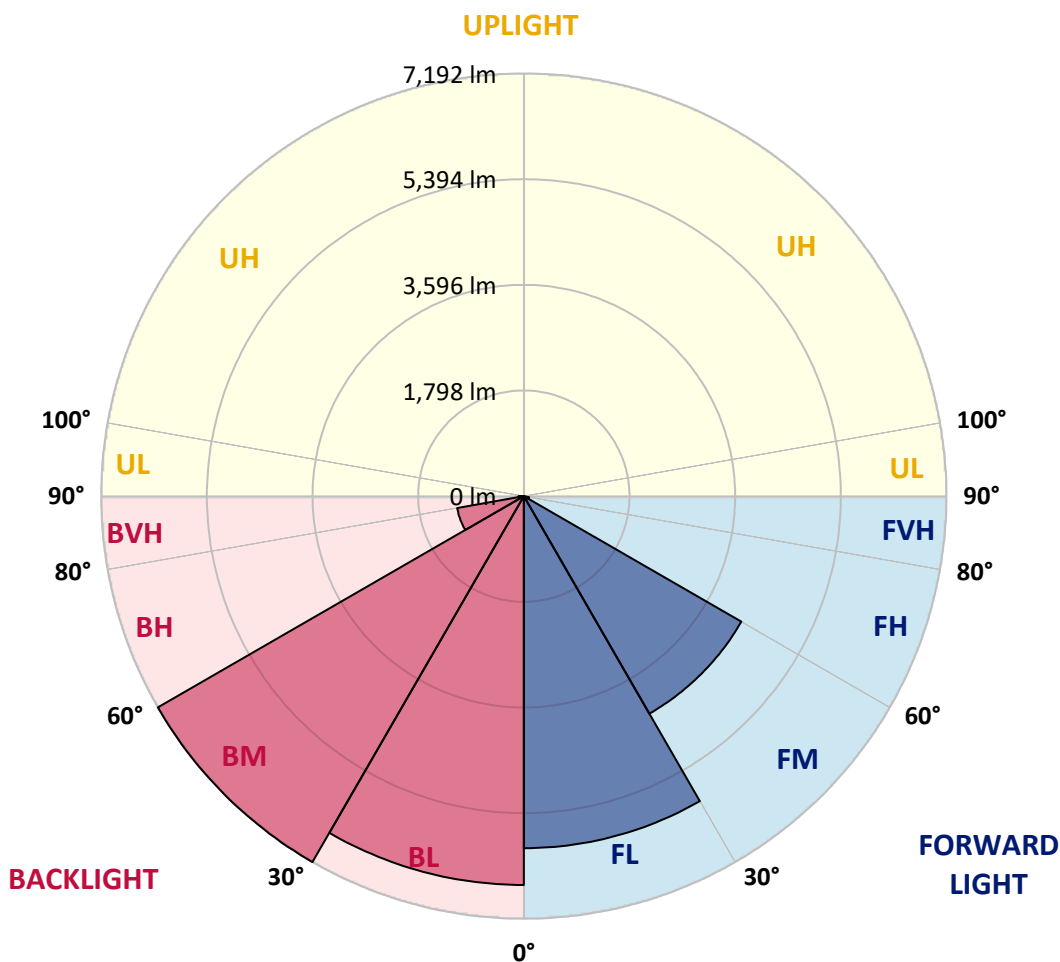
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5990.7	23.6			
FM (30°-60°)	4274.0	16.8			
FH (60°-80°)	89.6	0.4			G0/660
FVH (80°-90°)	7.8	0.0			G0/10
BL (0°-30°)	6617.9	26.0	B5		
BM (30°-60°)	7191.6	28.3	B4/8500		
BH (60°-80°)	1151.8	4.5	B3/2500		G3/2500
BVH (80°-90°)	89.5	0.4			G1/100
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°	19339.0	19339.0	19339.0	19339.0	19339.0	19339.0	19339.0	19339.0	19339.0	19339.0
2.5°	19303.3	19328.3	19192.3	19206.6	19231.7	19414.2	19367.7	19324.7	19263.9	19367.7
5°	19278.2	19292.5	19149.4	19099.3	19120.7	19285.4	19135.1	19135.1	19120.7	19102.8
7.5°	19085.0	19092.1	18981.2	18891.7	18949.0	19024.1	18913.2	18966.9	18888.1	18949.0
10°	18795.1	18748.6	18616.2	18591.1	18655.5	18727.1	18651.9	18702.0	18630.5	18677.0
12.5°	18369.2	18297.7	18190.3	18158.1	18269.0	18365.6	18304.8	18276.2	18183.1	18297.7
15°	16726.6	16672.9	16916.3	17342.2	17725.1	17807.4	17743.0	17771.6	17578.3	17610.6
17.5°	13767.1	13666.9	13928.1	14937.3	16375.9	17134.6	17077.3	16891.2	16605.0	16669.4
20°	12511.0	12482.3	12453.7	12693.5	13699.1	16000.2	16078.9	15606.5	15198.5	15109.1
22.5°	11802.4	11791.7	11763.0	11816.7	12081.5	13559.5	14461.3	14024.7	13752.8	13727.7
25°	11154.7	11136.8	11050.9	11118.9	11118.9	11204.8	12360.7	12625.5	12385.7	12357.1
27.5°	10496.2	10464.0	10449.7	10481.9	10317.3	9737.5	10031.0	11322.9	11197.6	11204.8
30°	9784.0	9773.3	9733.9	9801.9	9293.8	8574.5	8388.4	10141.9	10167.0	10159.8
32.5°	8724.8	8771.3	8950.2	9025.4	8188.0	7593.9	7282.6	8774.9	9286.6	9275.9
35°	6337.8	6337.8	6921.1	8005.4	7175.2	6727.9	6559.7	7440.0	8417.0	8452.8
37.5°	5210.5	5228.4	5342.9	5836.8	6191.1	6033.6	5983.5	6262.6	7300.5	7357.7
40°	4688.0	4688.0	4688.0	4484.1	4473.3	5436.0	5407.3	5317.9	6305.6	6430.8
42.5°	4212.1	4222.8	4230.0	3714.6	3428.3	4698.8	4634.4	4498.4	5414.5	5561.2
45°	3721.8	3739.7	3761.2	3106.3	2981.0	3381.8	3922.2	3771.9	4534.2	4723.8
47.5°	2272.4	2301.1	2787.8	2633.9	2648.2	2608.8	3199.3	3174.3	3718.2	3986.6
50°	1535.2	1546.0	1592.5	1671.2	2272.4	2050.6	2265.3	2626.7	2823.6	3231.5
52.5°	1288.3	1306.2	1191.7	1084.3	1492.3	1603.2	1581.8	1950.4	2029.1	2533.7
55°	905.4	962.7	909.0	898.2	848.1	1245.4	1198.8	1499.5	1549.6	1925.3
57.5°	93.0	107.4	186.1	669.2	554.7	705.0	855.3	1098.6	1148.7	1420.7
60°	7.2	7.2	17.9	93.0	404.4	422.3	590.5	676.4	773.0	991.3
62.5°	0.0	3.6	7.2	14.3	64.4	225.5	297.0	354.3	465.2	640.6
65°	0.0	0.0	3.6	10.7	14.3	85.9	114.5	186.1	254.1	397.2
67.5°	0.0	0.0	3.6	7.2	10.7	21.5	39.4	68.0	136.0	225.5
70°	0.0	0.0	3.6	7.2	10.7	17.9	28.6	42.9	60.8	121.7
72.5°	0.0	0.0	3.6	3.6	7.2	17.9	21.5	28.6	42.9	60.8
75°	0.0	0.0	3.6	3.6	10.7	21.5	17.9	21.5	28.6	39.4
77.5°	0.0	0.0	3.6	7.2	10.7	21.5	17.9	21.5	21.5	25.1
80°	0.0	0.0	3.6	7.2	14.3	25.1	21.5	21.5	17.9	17.9
82.5°	0.0	0.0	3.6	10.7	14.3	32.2	32.2	28.6	14.3	10.7
85°	0.0	0.0	7.2	14.3	21.5	35.8	35.8	28.6	10.7	7.2
87.5°	0.0	0.0	7.2	10.7	17.9	25.1	35.8	28.6	10.7	3.6
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°
19339.0	0°	19339.0	19339.0	19339.0	19339.0	19339.0	19339.0	19339.0	19339.0	19339.0
19278.2	2.5°	19374.8	19353.4	19424.9	19453.6	19492.9	19342.6	19249.6	19253.2	19081.4
19059.9	5°	19174.4	19178.0	19271.0	19263.9	19303.3	19220.9	19185.2	19124.3	18974.0
18784.3	7.5°	18920.3	18888.1	18977.6	19045.6	18945.4	19002.6	18920.3	18949.0	18859.5
18541.0	10°	18723.5	18648.4	18730.7	18777.2	18780.8	18723.5	18644.8	18569.6	18537.4
18161.7	12.5°	18286.9	18190.3	18329.9	18394.3	18383.5	18272.6	18183.1	18201.0	18097.2
17496.0	15°	17685.7	17689.3	17789.5	17850.3	17793.1	17768.0	17775.2	17732.2	17642.8
16576.3	17.5°	16766.0	16819.7	17084.5	17231.2	17263.4	17213.3	17188.3	17138.2	17048.7
15109.1	20°	15234.3	15556.4	16028.8	16483.3	16572.7	16558.4	16469.0	16447.5	16397.4
13656.1	22.5°	13888.8	14128.5	14676.1	15384.6	15749.7	15785.4	15678.1	15645.9	15592.2
12357.1	25°	12496.7	12754.3	13248.2	14017.6	14772.7	14926.6	14908.7	14812.0	14754.8
11204.8	27.5°	11322.9	11580.5	12027.9	12722.1	13530.9	14024.7	14071.3	13917.4	13913.8
10177.7	30°	10263.6	10617.9	10957.8	11523.3	12307.0	13047.8	13126.5	13019.1	13029.9
9236.5	32.5°	9433.3	9726.8	10016.6	10396.0	11047.3	11909.8	12217.5	12117.3	12078.0
8452.8	35°	8585.2	8785.6	9082.6	9429.8	9873.5	10728.8	11262.0	11186.9	11147.5
7393.5	37.5°	7619.0	7962.5	8177.2	8567.3	8914.4	9594.4	10345.9	10335.1	10252.8
6491.7	40°	6627.7	6989.1	7314.8	7708.4	7976.8	8517.2	9351.0	9347.4	9358.2
5557.6	42.5°	5729.4	6062.2	6455.9	6885.3	7143.0	7536.6	8431.3	8481.4	8542.2
4788.2	45°	4917.1	5217.7	5582.7	6105.2	6416.5	6642.0	7436.4	7665.5	7661.9
4101.1	47.5°	4187.0	4469.7	4777.5	5285.7	5682.9	5886.9	6545.4	6871.0	6849.5
3363.9	50°	3514.2	3764.7	4086.8	4455.4	4988.6	5167.6	5657.9	6087.3	6055.1
2680.4	52.5°	2827.1	3174.3	3446.2	3782.6	4344.5	4519.8	4899.2	5317.9	5292.8
2011.2	55°	2204.5	2540.8	2870.1	3160.0	3632.3	3893.6	4165.6	4595.0	4587.8
1574.6	57.5°	1667.7	2036.3	2347.6	2623.2	2998.9	3321.0	3539.3	3929.4	3979.5
1077.2	60°	1234.6	1517.3	1853.7	2161.5	2458.5	2791.3	2938.1	3321.0	3342.5
737.2	62.5°	841.0	1152.3	1481.6	1760.7	1982.6	2326.1	2458.5	2773.5	2812.8
472.4	65°	583.3	783.7	1159.5	1359.9	1631.9	1925.3	2057.7	2308.2	2387.0
272.0	67.5°	386.5	558.3	905.4	1087.9	1356.3	1556.7	1724.9	1928.9	2014.8
171.8	70°	211.1	411.5	647.7	858.9	1091.5	1284.7	1449.4	1614.0	1689.1
78.7	72.5°	143.1	275.6	450.9	679.9	880.3	1070.0	1216.7	1338.4	1342.0
46.5	75°	71.6	186.1	343.6	526.1	687.1	873.2	1005.6	1077.2	991.3
28.6	77.5°	42.9	136.0	279.1	422.3	558.3	705.0	780.1	819.5	679.9
21.5	80°	25.1	96.6	218.3	336.4	386.5	518.9	590.5	601.2	454.5
14.3	82.5°	17.9	71.6	171.8	246.9	236.2	365.0	443.8	429.4	289.9
10.7	85°	10.7	50.1	107.4	153.9	143.1	239.8	257.7	264.8	168.2
7.2	87.5°	7.2	28.6	57.3	82.3	68.0	103.8	103.8	125.3	82.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
19339.0
18859.5
18938.2
18709.2
18394.3
18007.8
17553.3
17009.3
16282.9
15577.9
14693.9
13906.6
12976.2
12081.5
11093.8
10320.8
9358.2
8510.0
7669.1
6856.7
6083.7
5346.5
4605.7
3958.0
3374.7
2820.0
2369.1
2004.0
1660.5
1309.8
926.9
654.9
425.9
268.4
153.9
71.6
0.0

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