

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: P638037

Luminaire Tested: **IFLD-L-SA7E-830-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638037  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-830-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37823.4 lumens  
Efficiency: N/A  
Efficacy: 71.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

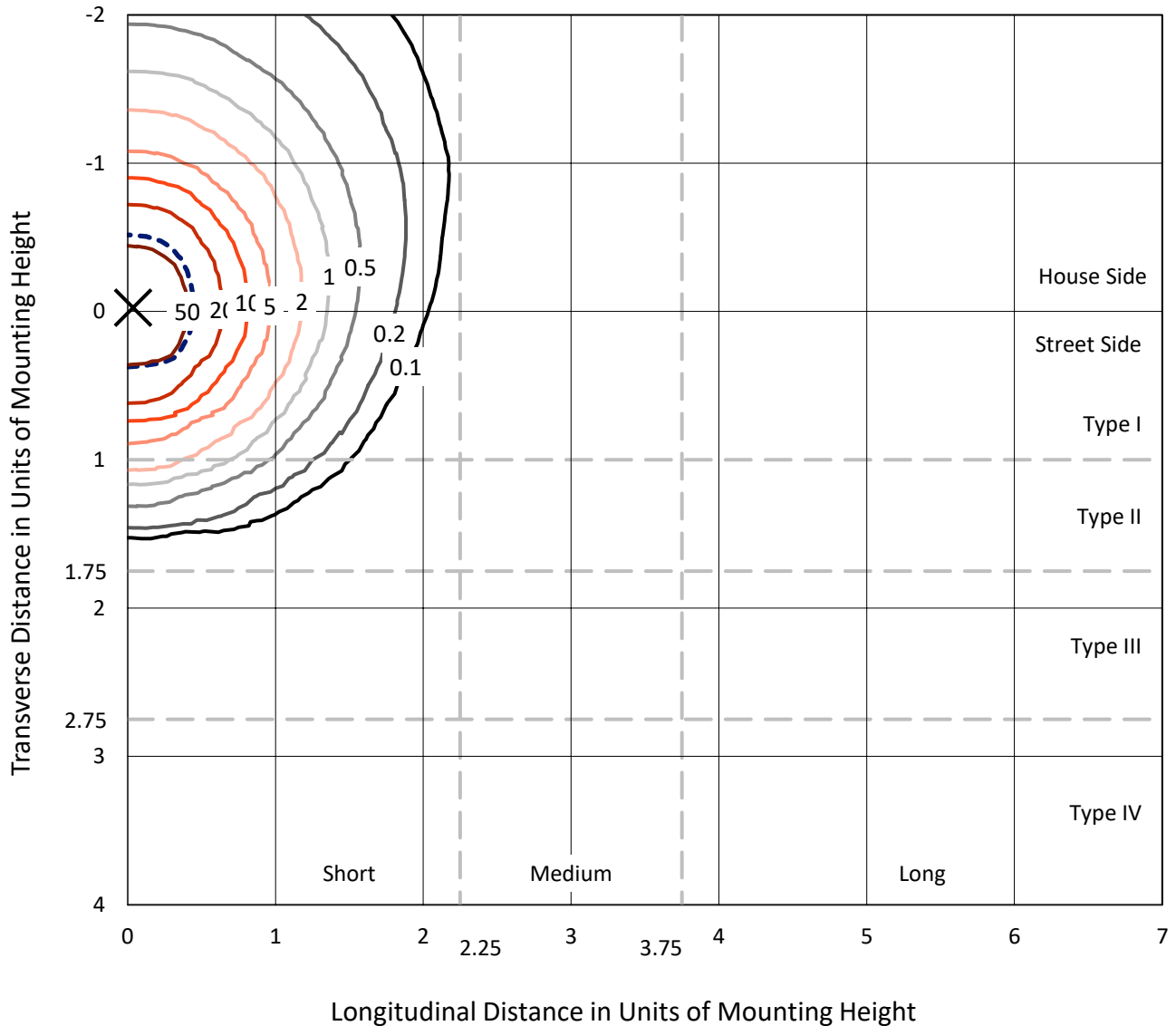
Input Watts (W): 532.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

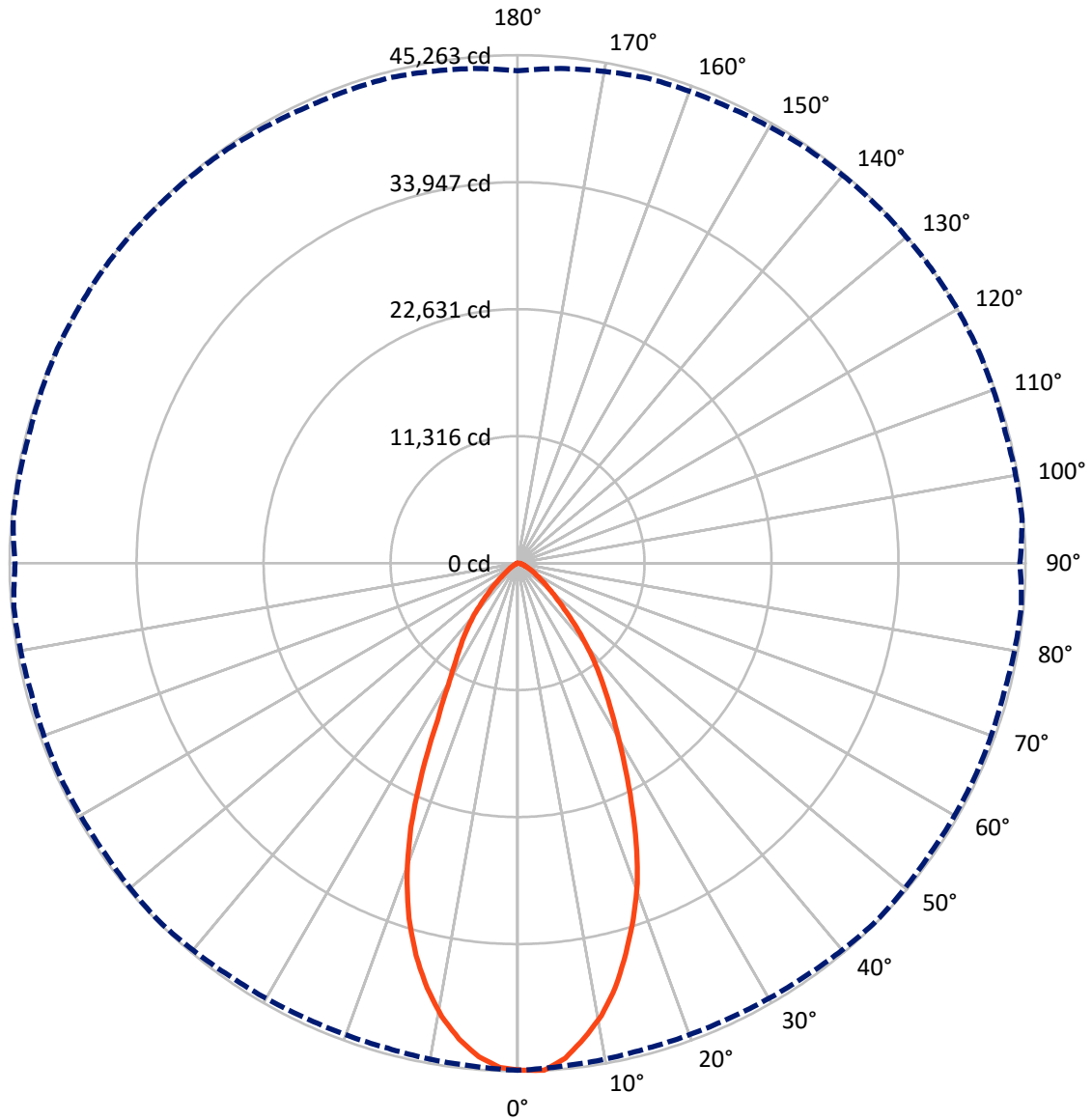
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 113 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	21462.5	0.0	21462.5
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	16360.9	0.0	16360.9
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	37823.4	0.0	37823.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4103.4	10.8
10°-20°	9781.6	25.9
20°-30°	9962.4	26.3
30°-40°	7428.9	19.6
40°-50°	3881.1	10.3
50°-60°	1632.4	4.3
60°-70°	666.7	1.8
70°-80°	280.6	0.7
80°-90°	86.5	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°	37823.4	100.0
0°-180°	37823.4	100.0



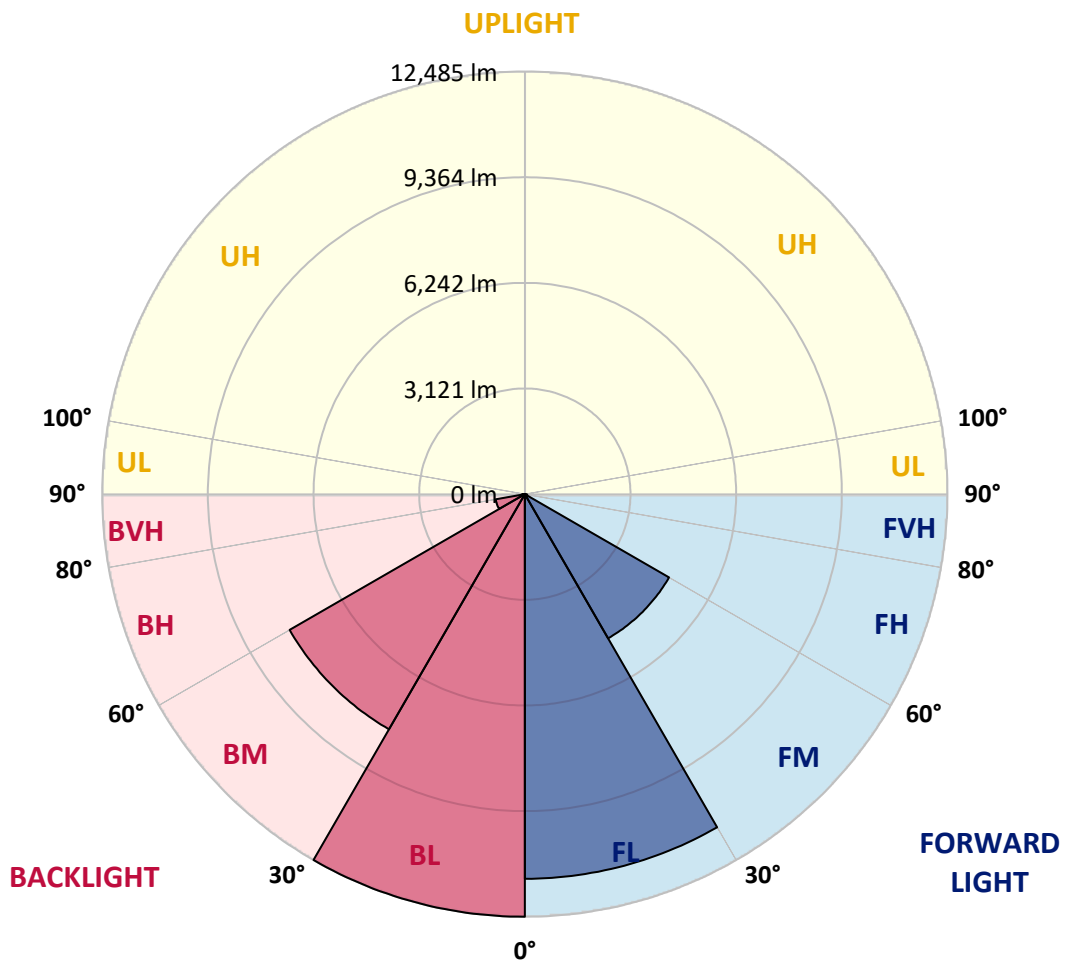
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11362.6	30.0			
FM (30°-60°)	4919.1	13.0			
FH (60°-80°)	71.2	0.2			G0/660
FVH (80°-90°)	8.0	0.0			G0/10
BL (0°-30°)	12484.8	33.0	B5		
BM (30°-60°)	8023.3	21.2	B4/8500		
BH (60°-80°)	876.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	78.4	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-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	45189.8	45189.8	45189.8	45189.8	45189.8	45189.8	45189.8	45189.8	45189.8	45189.8
2.5°	45194.7	45010.0	44747.7	44723.4	44859.4	45155.8	44966.3	44976.0	44859.4	45058.6
5°	44485.3	44310.4	44130.6	43892.6	44091.8	44218.1	44120.9	44014.0	43863.4	44057.7
7.5°	43144.3	43047.2	42779.9	42673.0	42794.5	42935.4	42726.5	42697.3	42488.4	42741.1
10°	41094.0	41055.1	40792.8	40729.6	40836.5	41050.3	40958.0	40938.5	40807.3	40783.1
12.5°	38965.9	38815.3	38489.8	38470.4	38630.7	38951.4	38703.6	38465.5	38538.4	38601.5
15°	33485.4	33325.1	34131.6	35399.7	36065.4	36041.1	36113.9	35827.3	35739.8	35769.0
17.5°	26620.2	26348.2	26639.7	28602.6	31765.5	33602.0	33096.8	32479.7	32149.3	31930.7
20°	22976.3	22990.9	22937.4	23442.7	25415.3	29603.4	29482.0	28291.6	27859.2	27679.4
22.5°	20760.8	20678.2	20561.6	20721.9	21251.5	23709.9	25357.0	24263.8	24113.2	23914.0
25°	18589.0	18589.0	18448.1	18608.4	18759.0	18793.0	20445.0	20892.0	20600.4	20600.4
27.5°	16708.7	16611.5	16548.4	16621.3	16422.1	15464.9	15673.8	17962.2	17763.0	17641.6
30°	14843.0	14813.9	14707.0	14804.1	14065.6	12987.0	12549.8	15158.8	15367.7	15324.0
32.5°	12253.4	12370.0	12846.1	12996.7	11733.5	10863.8	10446.0	12583.8	13419.4	13385.4
35°	8327.6	8424.8	8969.0	10766.6	9726.9	9105.0	8983.5	10008.7	11383.7	11514.9
37.5°	6632.0	6617.4	6772.9	7093.5	7817.5	7666.9	7632.9	7900.1	9284.8	9343.1
40°	5465.9	5446.5	5441.6	5179.3	4999.5	6374.5	6282.2	6121.8	7321.9	7438.5
42.5°	4406.7	4426.2	4440.8	3867.4	3605.1	4916.9	4863.5	4698.3	5742.9	5878.9
45°	3459.3	3454.5	3483.6	2881.1	2808.3	3143.5	3634.2	3503.0	4333.9	4479.6
47.5°	1792.8	1856.0	2249.5	2230.1	2264.1	2230.1	2750.0	2716.0	3260.1	3493.3
50°	1204.9	1224.4	1258.4	1263.2	1783.1	1642.2	1865.7	2113.5	2283.5	2643.1
52.5°	932.9	947.4	860.0	806.5	1093.2	1214.6	1224.4	1462.4	1593.6	1958.0
55°	519.9	583.0	626.8	631.6	602.5	898.8	894.0	1083.5	1185.5	1428.4
57.5°	68.0	82.6	126.3	408.1	403.3	500.4	626.8	787.1	845.4	1044.6
60°	4.9	9.7	14.6	63.2	267.2	291.5	427.6	490.7	587.9	733.6
62.5°	0.0	0.0	4.9	14.6	53.4	170.1	223.5	257.5	345.0	481.0
65°	0.0	0.0	4.9	9.7	19.4	63.2	87.5	140.9	204.1	296.4
67.5°	0.0	0.0	4.9	9.7	14.6	24.3	38.9	63.2	106.9	179.8
70°	0.0	0.0	4.9	9.7	14.6	19.4	29.2	38.9	58.3	97.2
72.5°	0.0	0.0	4.9	4.9	9.7	24.3	24.3	29.2	38.9	53.4
75°	0.0	0.0	4.9	9.7	14.6	24.3	24.3	24.3	29.2	34.0
77.5°	0.0	0.0	4.9	9.7	14.6	24.3	19.4	24.3	24.3	24.3
80°	0.0	0.0	4.9	9.7	14.6	24.3	29.2	24.3	19.4	19.4
82.5°	0.0	0.0	4.9	14.6	14.6	34.0	34.0	34.0	14.6	14.6
85°	0.0	0.0	9.7	14.6	24.3	38.9	38.9	29.2	14.6	9.7
87.5°	0.0	0.0	4.9	9.7	9.7	19.4	29.2	24.3	9.7	4.9
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°
45189.8	0°	45189.8	45189.8	45189.8	45189.8	45189.8	45189.8	45189.8	45189.8	45189.8
44767.1	2.5°	45126.6	45005.2	45233.5	45262.7	45165.5	45044.0	44762.2	44737.9	44247.2
43775.9	5°	44271.5	44072.3	44218.1	44315.3	44281.2	44150.1	44033.5	43926.6	43484.4
42167.8	7.5°	42677.9	42605.0	42673.0	42745.9	42886.8	42745.9	42697.3	42585.6	42148.3
40583.8	10°	40909.4	40773.3	41030.8	40996.8	40958.0	40919.1	40715.0	40734.5	40219.5
38426.6	12.5°	38737.6	38509.2	38757.0	38786.2	38757.0	38621.0	38392.6	38489.8	38018.5
35511.5	15°	35817.6	35793.3	35973.0	36089.6	36172.2	36026.5	35948.7	35997.3	35715.5
31760.6	17.5°	32231.9	32547.7	33135.6	33334.8	33339.7	33490.3	33446.6	33388.3	33179.3
27606.5	20°	28014.7	28622.0	29525.7	30453.7	30720.9	30594.6	30536.3	30643.2	30332.2
23705.1	22.5°	24122.9	24642.8	25692.3	27047.8	27830.0	27907.8	27893.2	27800.9	27679.4
20581.0	25°	20819.1	21280.6	22286.4	23525.3	25026.6	25250.1	25259.8	25230.7	25123.8
17748.4	27.5°	18030.2	18589.0	19142.9	20250.6	21849.1	22772.2	22655.6	22621.6	22582.8
15358.0	30°	15503.8	16208.3	16728.1	17418.1	18851.4	20100.0	20221.5	20163.2	20070.9
13380.6	32.5°	13502.0	13919.9	14580.6	15047.1	16077.1	17490.9	17957.4	17913.6	17831.0
11597.5	35°	11762.7	11927.9	12447.7	12967.6	13652.7	15022.8	15712.7	15615.5	15601.0
9450.0	37.5°	9688.0	10241.9	10528.6	11053.3	11534.3	12598.3	13550.6	13506.9	13511.8
7598.8	40°	7822.3	8143.0	8711.5	9153.6	9595.7	10373.1	11432.3	11461.4	11451.7
5883.8	42.5°	6005.2	6316.2	6913.8	7394.8	7788.3	8269.3	9279.9	9313.9	9357.7
4581.7	45°	4688.5	4887.7	5325.0	5825.5	6243.3	6534.8	7302.5	7521.1	7526.0
3551.6	47.5°	3639.1	3867.4	4178.4	4659.4	5067.5	5276.4	5835.2	6131.5	6117.0
2725.7	50°	2856.9	3065.8	3318.4	3697.4	4139.5	4304.7	4717.7	5009.2	4994.6
2055.2	52.5°	2186.4	2453.6	2677.1	2968.6	3401.0	3541.9	3838.3	4173.5	4124.9
1506.2	55°	1656.8	1928.9	2137.8	2380.7	2774.3	2954.0	3158.1	3425.3	3435.0
1166.1	57.5°	1248.7	1530.5	1719.9	1967.7	2264.1	2463.3	2618.8	2905.4	2900.6
796.8	60°	894.0	1136.9	1365.3	1622.8	1851.1	2079.5	2186.4	2458.4	2468.2
563.6	62.5°	646.2	874.5	1093.2	1316.7	1520.7	1744.2	1841.4	2055.2	2084.3
369.3	65°	451.8	612.2	864.8	1034.9	1263.2	1428.4	1554.8	1739.4	1773.4
218.6	67.5°	291.5	442.1	685.1	835.7	1044.6	1185.5	1316.7	1462.4	1506.2
140.9	70°	174.9	335.2	510.2	670.5	860.0	986.3	1112.6	1238.9	1263.2
68.0	72.5°	111.7	233.2	369.3	544.2	689.9	826.0	937.7	1030.0	957.1
43.7	75°	63.2	160.3	291.5	427.6	558.7	689.9	782.2	830.8	665.6
29.2	77.5°	38.9	116.6	238.1	345.0	432.4	553.9	612.2	641.3	476.1
19.4	80°	24.3	87.5	199.2	281.8	281.8	408.1	476.1	500.4	345.0
14.6	82.5°	19.4	63.2	155.5	213.8	189.5	306.1	374.1	379.0	242.9
9.7	85°	14.6	48.6	97.2	140.9	131.2	213.8	218.6	242.9	160.3
9.7	87.5°	9.7	29.2	58.3	82.6	72.9	102.0	116.6	131.2	87.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
45189.8
43863.4
43129.8
42056.0
40044.5
37882.5
35375.4
32868.4
30108.7
27446.2
24764.3
22354.4
19954.3
17612.4
15440.6
13356.3
11281.7
9211.9
7399.6
6063.5
4994.6
4129.8
3435.0
2890.9
2443.9
2074.6
1763.7
1501.3
1243.8
889.1
631.6
447.0
320.7
223.5
145.8
77.7
0.0

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