

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: P637502

Luminaire Tested: **IFLD-S-SA6B-830-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637502  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-830-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (96) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25581.4 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

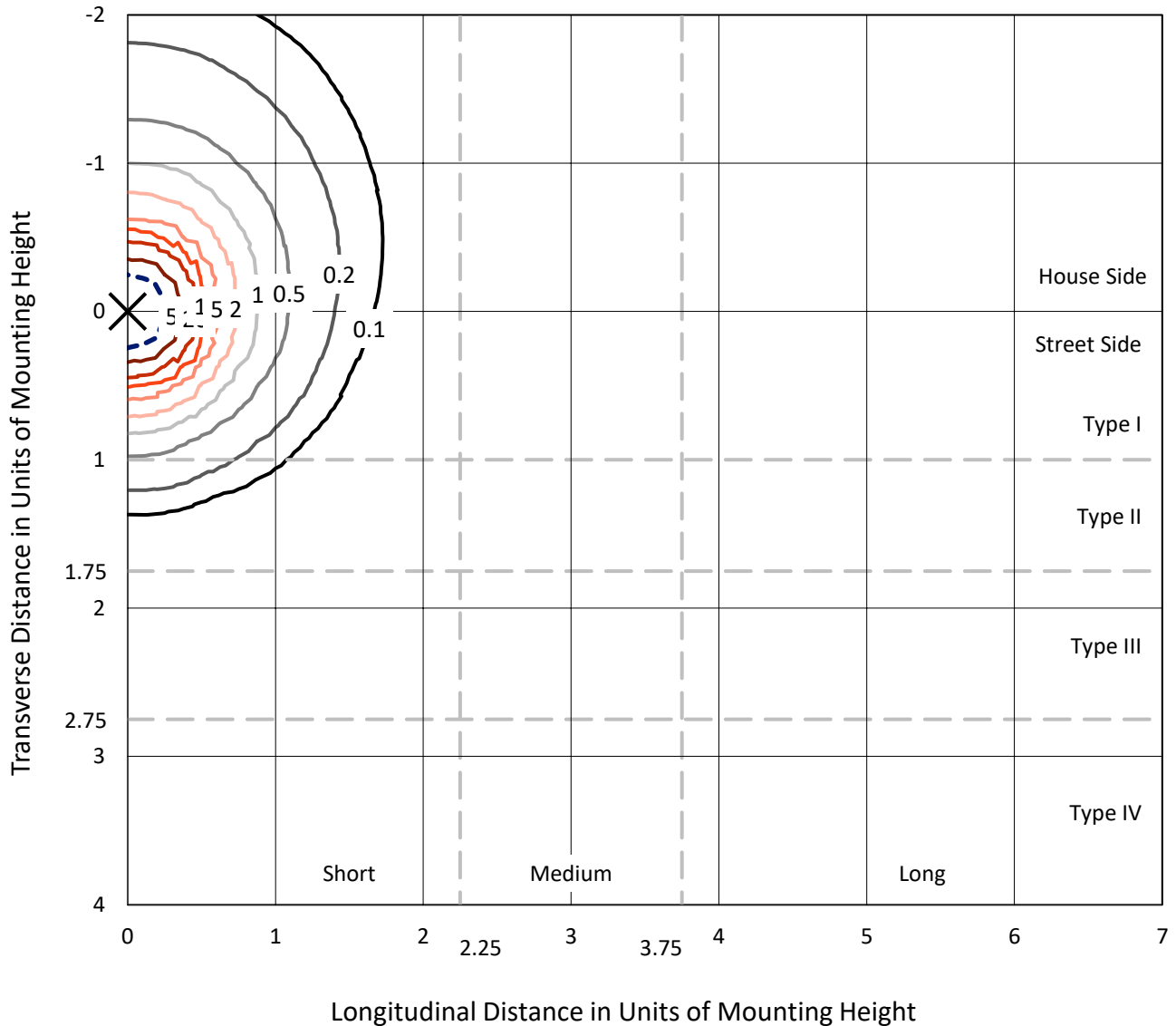
Input Watts (W): 244.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

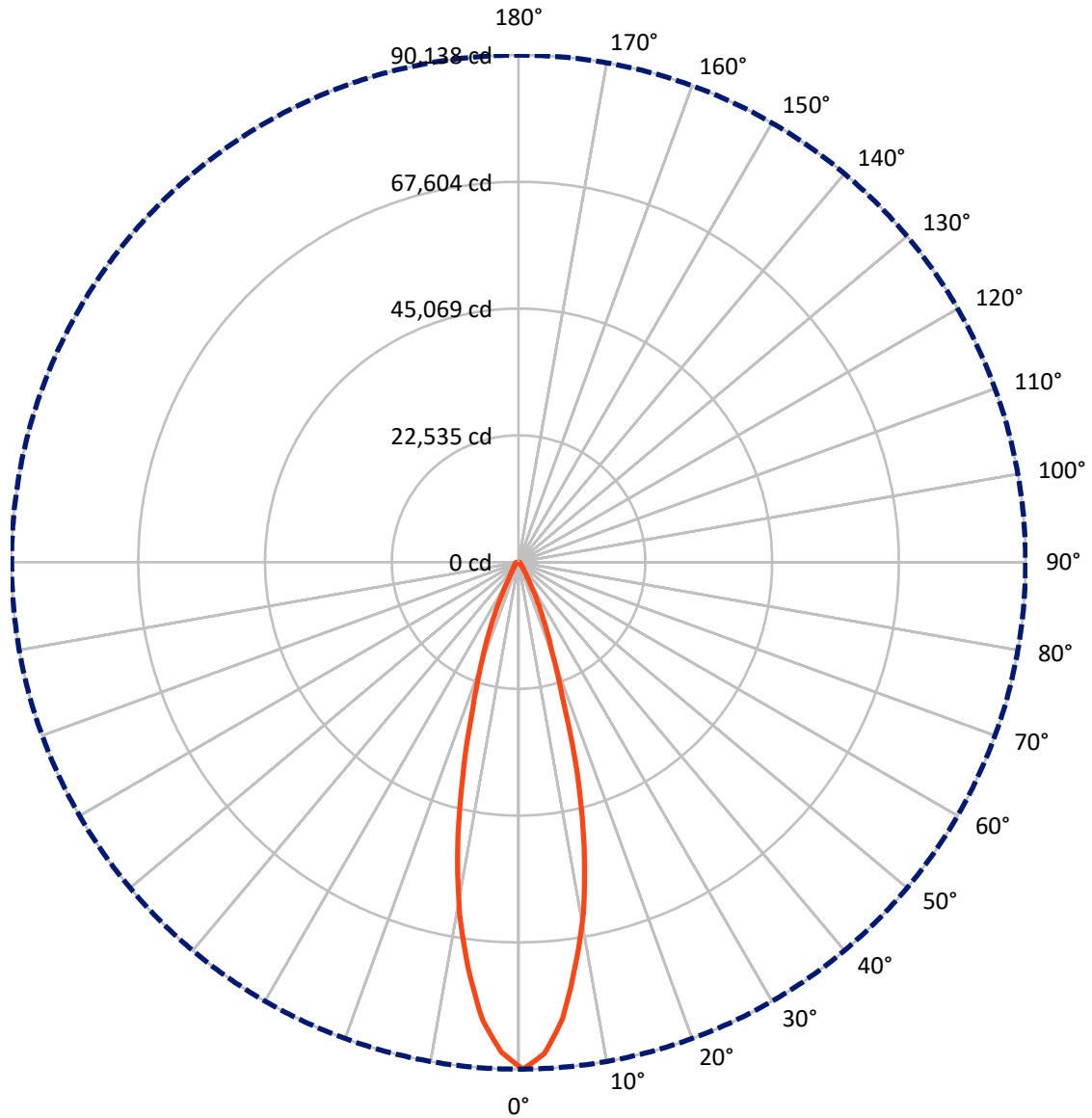
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 225.3 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	13488.3	0.0	13488.3
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	12093.2	0.0	12093.2
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	25581.4	0.0	25581.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7274.9	28.4
10°-20°	11017.8	43.1
20°-30°	4649.6	18.2
30°-40°	1212.6	4.7
40°-50°	613.3	2.4
50°-60°	400.9	1.6
60°-70°	240.2	0.9
70°-80°	126.4	0.5
80°-90°	45.6	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°	25581.4	100.0
0°-180°	25581.4	100.0



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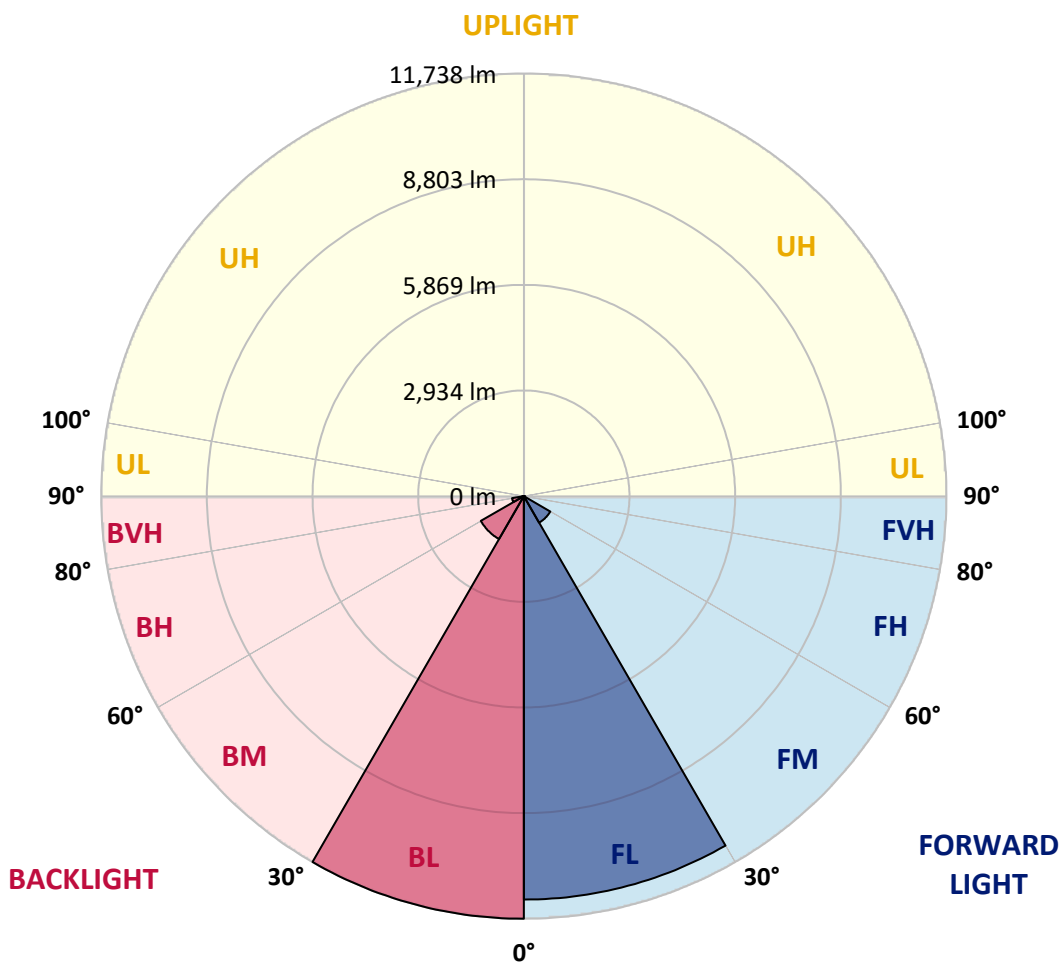
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11204.5	43.8			
FM (30°-60°)	848.5	3.3			
FH (60°-80°)	34.6	0.1			G0/660
FVH (80°-90°)	5.5	0.0			G0/10
BL (0°-30°)	11737.9	45.9	B5		
BM (30°-60°)	1378.3	5.4	B2/2500		
BH (60°-80°)	332.0	1.3	B1/500		G0/660
BVH (80°-90°)	40.1	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 V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	90138.0	90138.0	90138.0	90138.0	90138.0	90138.0	90138.0	90138.0	90138.0	90138.0
2.5°	87512.2	87561.1	87380.1	87770.8	87466.3	88282.1	87877.1	88509.1	88296.5	88649.9
5°	81536.7	81456.3	81404.6	82010.7	81835.5	82711.7	82151.5	81967.7	82536.5	82433.0
7.5°	72513.2	72725.7	72605.1	72763.1	72852.2	73851.9	74167.9	73920.8	73929.5	74073.1
10°	63262.6	62949.5	62504.2	62800.1	63426.4	63863.1	63687.8	64049.8	63969.4	64311.2
12.5°	51880.5	52127.5	51877.6	51613.3	52707.9	52587.2	52891.7	53089.9	52592.9	53699.0
15°	39079.1	39208.4	39512.9	39492.8	40334.6	40504.1	40463.8	40673.6	40285.7	40469.6
17.5°	25105.7	25542.4	26361.1	27745.8	29302.9	29483.9	29437.9	29265.5	29078.8	28872.0
20°	16863.5	16817.6	17113.5	17518.5	20741.8	21595.1	21569.2	21029.1	20247.7	20098.3
22.5°	11813.1	11899.3	11859.1	12261.2	12927.7	15280.6	14990.4	14441.7	14186.0	14019.4
25°	7771.0	7739.4	7940.5	8061.2	8632.9	8920.1	9937.1	9733.2	9339.6	9382.7
27.5°	4737.3	4777.5	4852.2	4955.6	5360.7	5268.8	5849.1	5926.7	5800.2	5665.2
30°	2907.3	2936.0	2996.4	3071.1	3211.8	3111.3	3272.2	3550.8	3504.9	3410.1
32.5°	1973.6	1976.5	2019.6	2048.3	2031.1	1936.3	1988.0	2252.3	2258.0	2249.4
35°	1419.2	1419.2	1459.4	1482.4	1433.5	1356.0	1364.6	1528.3	1600.2	1614.5
37.5°	979.6	982.5	1051.5	1120.4	1065.8	1045.7	1011.2	1120.4	1235.3	1252.6
40°	744.1	741.2	775.7	827.4	833.1	795.8	807.3	876.2	994.0	1008.4
42.5°	603.3	606.2	623.4	617.7	620.5	669.4	686.6	718.2	827.4	853.2
45°	508.5	511.4	520.0	491.3	479.8	554.5	577.4	594.7	686.6	718.2
47.5°	419.4	425.2	433.8	402.2	396.5	445.3	485.5	502.7	583.2	617.7
50°	301.6	307.4	339.0	321.8	339.0	350.5	405.1	430.9	485.5	531.5
52.5°	218.3	224.1	232.7	235.6	278.7	284.4	324.6	364.8	390.7	442.4
55°	172.4	178.1	172.4	166.6	204.0	235.6	249.9	293.0	313.1	373.5
57.5°	97.7	103.4	112.0	129.3	135.0	181.0	195.4	232.7	249.9	307.4
60°	17.2	20.1	31.6	77.6	94.8	114.9	146.5	178.1	201.1	241.3
62.5°	2.9	2.9	5.7	17.2	54.6	80.4	106.3	126.4	146.5	183.9
65°	0.0	0.0	2.9	5.7	14.4	46.0	57.5	74.7	100.5	132.2
67.5°	0.0	0.0	2.9	5.7	8.6	17.2	25.9	46.0	57.5	89.1
70°	0.0	0.0	2.9	5.7	8.6	11.5	14.4	20.1	34.5	54.6
72.5°	0.0	0.0	2.9	5.7	8.6	11.5	14.4	17.2	17.2	34.5
75°	0.0	0.0	2.9	5.7	8.6	14.4	17.2	17.2	14.4	14.4
77.5°	0.0	0.0	2.9	5.7	11.5	17.2	20.1	17.2	11.5	11.5
80°	0.0	0.0	5.7	8.6	14.4	20.1	25.9	20.1	11.5	5.7
82.5°	0.0	0.0	5.7	11.5	14.4	23.0	31.6	25.9	11.5	5.7
85°	0.0	0.0	2.9	8.6	17.2	23.0	31.6	23.0	11.5	2.9
87.5°	0.0	0.0	2.9	2.9	5.7	8.6	17.2	14.4	5.7	2.9
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°
<b>90138.0</b>	0°	<b>90138.0</b>	<b>90138.0</b>	<b>90138.0</b>	<b>90138.0</b>	<b>90138.0</b>	<b>90138.0</b>	<b>90138.0</b>	<b>90138.0</b>	<b>90138.0</b>
87980.5	2.5°	88486.1	88945.8	89040.6	88914.2	89098.0	88767.6	88514.8	87859.8	87466.3
82401.4	5°	82932.9	82864.0	83343.7	83501.7	83481.6	83228.8	82875.5	82479.0	82094.1
73794.4	7.5°	74254.1	74343.2	74779.8	75058.5	74917.7	74601.7	74357.5	74058.7	73800.2
64434.8	10°	65023.7	64411.8	64954.7	64954.7	65331.1	64437.6	64520.9	63768.3	63802.7
53678.9	12.5°	53862.7	54083.9	54173.0	54428.7	53989.1	53515.1	52934.8	52819.9	52460.8
40119.1	15°	40696.5	41328.6	40785.6	41713.5	41265.4	40771.2	40682.2	39791.6	40073.1
29098.9	17.5°	28955.3	29653.4	29871.7	30403.2	29995.2	29702.2	29331.6	29061.6	29041.5
20371.3	20°	20532.1	21233.1	21394.0	22031.8	21985.8	21893.9	21580.7	21238.8	20868.3
13867.2	22.5°	14076.9	14648.6	15182.9	16041.9	16027.5	15757.5	15725.9	15243.2	15251.9
9368.3	25°	9466.0	9882.5	10008.9	10888.0	10985.7	10957.0	10793.2	10345.1	10514.6
5722.7	27.5°	5728.4	6093.3	6521.3	6831.6	7124.6	7078.7	6914.9	6665.0	6555.8
3438.8	30°	3530.7	3694.5	3852.5	4225.9	4401.2	4493.1	4415.5	4182.8	4200.1
2263.8	32.5°	2312.6	2450.5	2565.4	2801.0	2892.9	3062.4	3030.8	2982.0	2924.5
1628.9	35°	1686.4	1786.9	1864.5	1973.6	2091.4	2235.1	2258.0	2237.9	2215.0
1258.3	37.5°	1287.0	1390.5	1479.5	1525.5	1617.4	1729.4	1792.6	1789.8	1772.5
1025.6	40°	1045.7	1123.3	1203.7	1264.0	1327.2	1410.6	1488.1	1496.7	1496.7
861.8	42.5°	873.3	939.4	1019.9	1083.1	1129.0	1206.6	1287.0	1292.8	1287.0
729.7	45°	746.9	804.4	882.0	956.7	994.0	1051.5	1129.0	1146.3	1134.8
626.3	47.5°	649.3	701.0	767.0	847.5	887.7	939.4	1011.2	1031.3	1028.5
540.1	50°	557.3	617.7	683.7	749.8	801.5	850.4	919.3	942.3	933.7
459.7	52.5°	491.3	545.8	603.3	675.1	735.4	778.5	833.1	873.3	861.8
387.8	55°	410.8	476.9	537.2	597.5	672.2	718.2	769.9	818.8	807.3
327.5	57.5°	356.2	410.8	479.8	534.3	609.0	663.6	715.3	767.0	764.2
267.2	60°	298.8	356.2	422.3	479.8	548.7	609.0	660.8	718.2	724.0
201.1	62.5°	235.6	304.5	362.0	428.1	497.0	563.1	609.0	666.5	675.1
152.3	65°	178.1	249.9	313.1	376.3	445.3	517.1	557.3	606.2	614.8
112.0	67.5°	132.2	192.5	267.2	324.6	396.5	465.4	502.7	543.0	557.3
68.9	70°	100.5	146.5	224.1	278.7	353.4	407.9	448.2	482.6	494.1
46.0	72.5°	63.2	114.9	181.0	238.4	304.5	353.4	382.1	402.2	419.4
25.9	75°	43.1	89.1	146.5	204.0	252.8	290.2	316.0	333.2	347.6
11.5	77.5°	25.9	68.9	120.7	169.5	201.1	229.8	255.7	267.2	275.8
8.6	80°	14.4	51.7	100.5	137.9	158.0	178.1	198.2	212.6	218.3
5.7	82.5°	8.6	40.2	80.4	106.3	114.9	135.0	155.1	163.8	163.8
2.9	85°	5.7	28.7	54.6	77.6	83.3	97.7	103.4	109.2	114.9
2.9	87.5°	5.7	17.2	34.5	43.1	46.0	51.7	54.6	60.3	66.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
<u>90138.0</u>
87176.1
81663.1
72924.0
63466.6
52133.3
39791.6
28507.1
20707.4
15085.2
10247.4
6461.0
4125.4
2904.4
2206.3
1763.9
1479.5
1281.3
1134.8
1022.7
927.9
859.0
813.0
767.0
726.8
680.9
623.4
563.1
499.9
416.6
344.7
272.9
212.6
160.9
112.0
63.2
0.0

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