

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: P638140

Luminaire Tested: **IFLD-S-SA6B-735-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638140  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-735-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (96) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

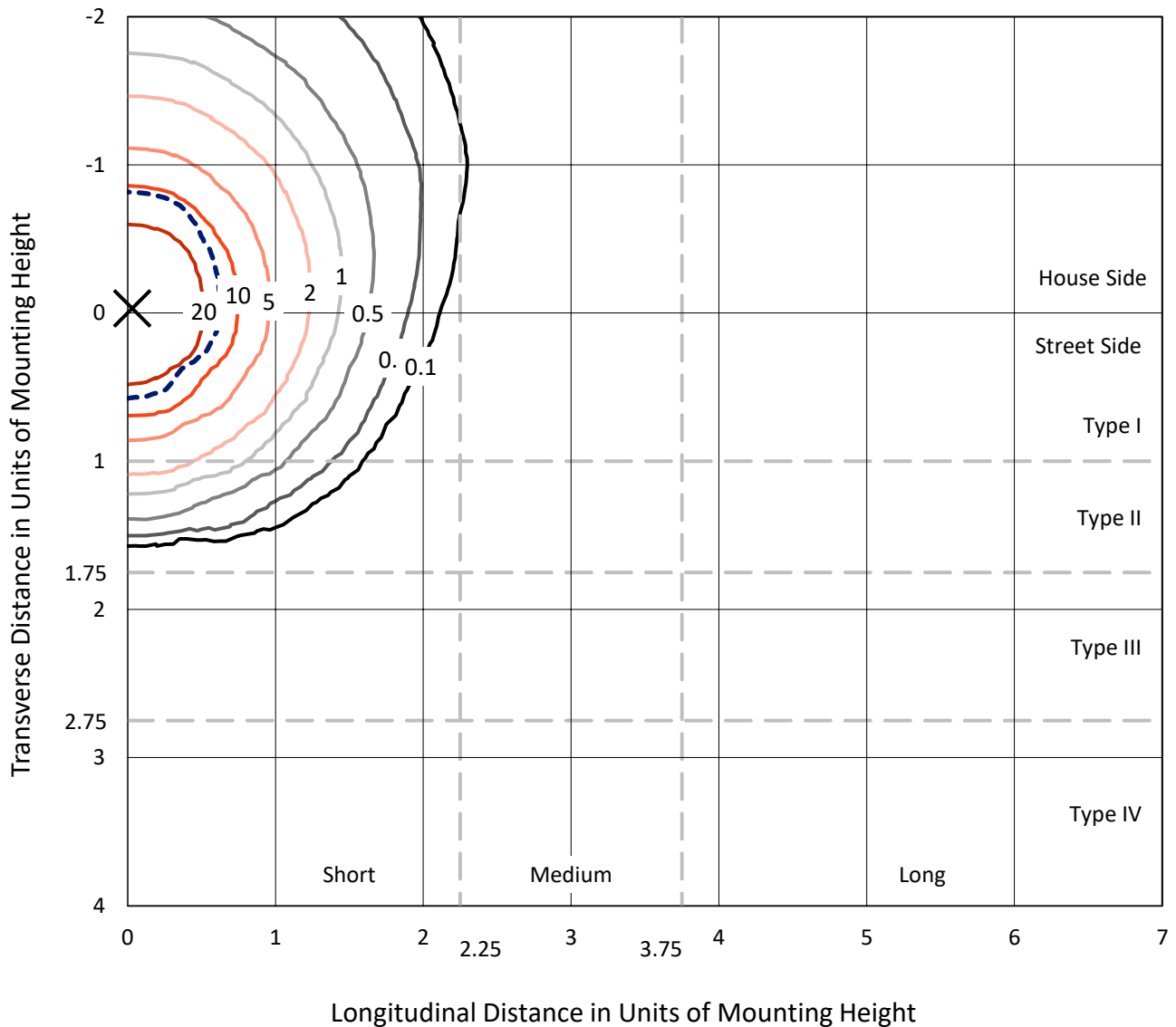
Lumens per Lamp: N/A  
Luminaire Lumens: 25323.4 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 244.9  
Input Voltage (V): 120  
Input Current (Ain): 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

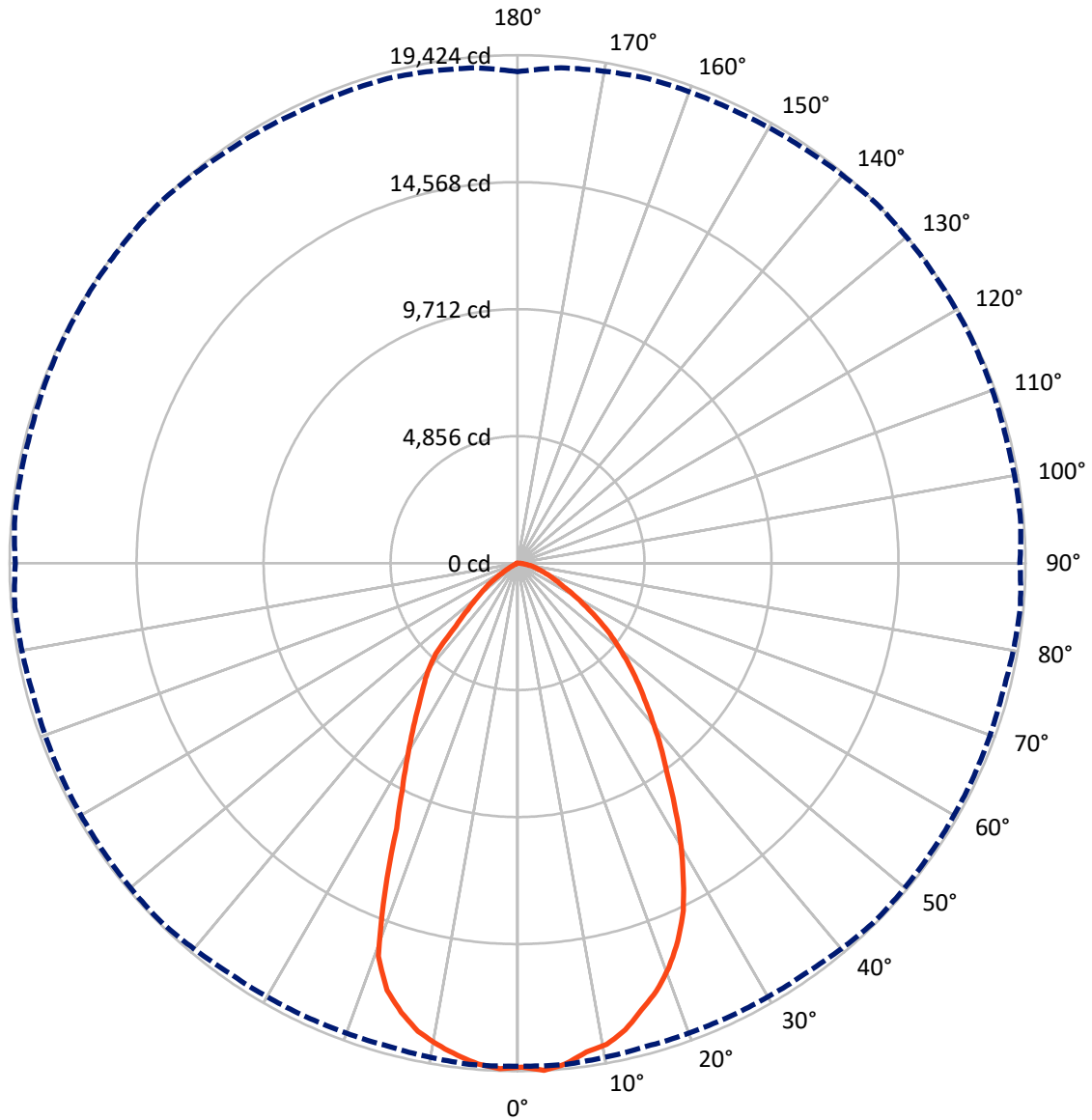
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 48.2 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	14997.8	0.0	14997.8
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	10325.6	0.0	10325.6
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	25323.4	0.0	25323.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1807.3	7.1
10°-20°	4846.4	19.1
20°-30°	5910.5	23.3
30°-40°	5396.2	21.3
40°-50°	3899.7	15.4
50°-60°	2129.3	8.4
60°-70°	880.4	3.5
70°-80°	356.6	1.4
80°-90°	97.0	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°	25323.4	100.0
0°-180°	25323.4	100.0



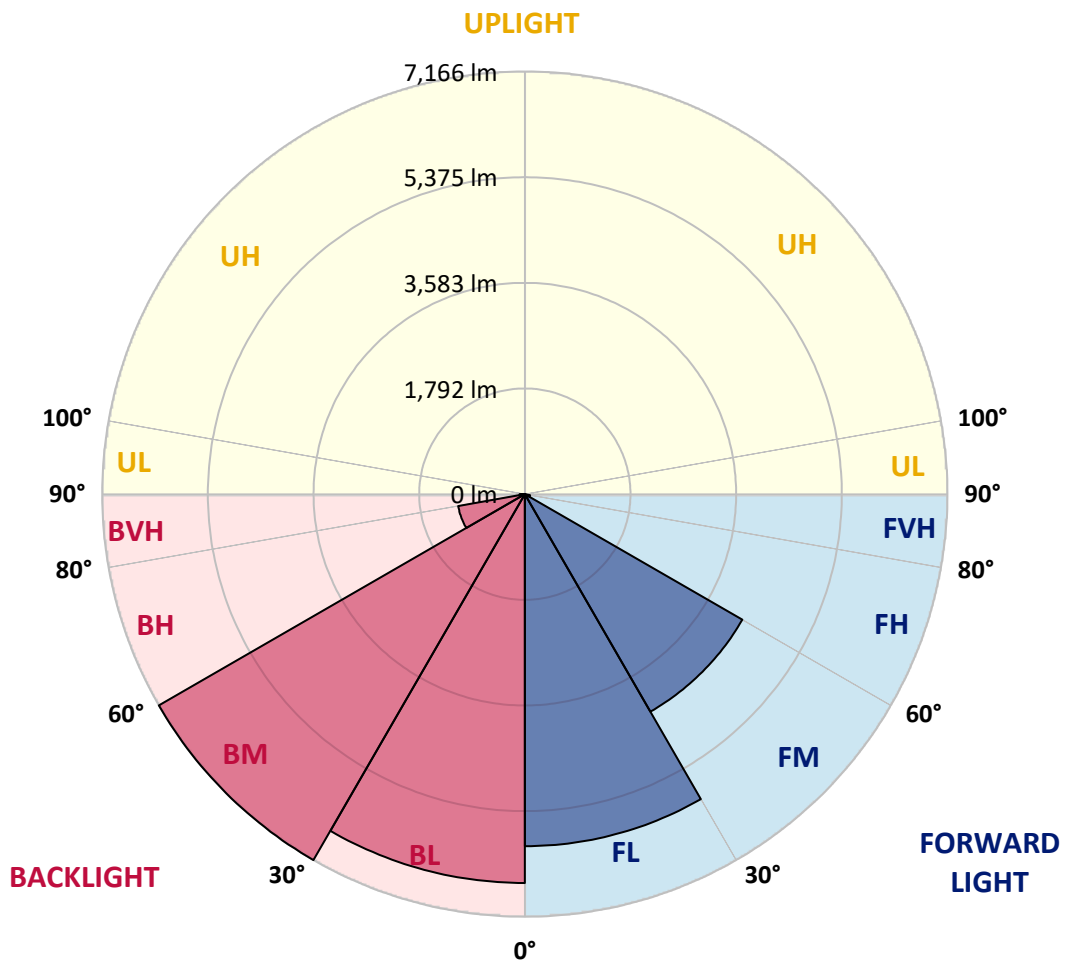
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5969.7	23.6			
FM (30°-60°)	4258.9	16.8			
FH (60°-80°)	89.2	0.4			G0/660
FVH (80°-90°)	7.8	0.0			G0/10
BL (0°-30°)	6594.6	26.0	B5		
BM (30°-60°)	7166.3	28.3	B4/8500		
BH (60°-80°)	1147.7	4.5	B3/2500		G3/2500
BVH (80°-90°)	89.2	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°	19271.0	19271.0	19271.0	19271.0	19271.0	19271.0	19271.0	19271.0	19271.0	19271.0
2.5°	19235.3	19260.3	19124.8	19139.1	19164.0	19345.9	19299.5	19256.7	19196.1	19299.5
5°	19210.4	19224.6	19082.0	19032.1	19053.5	19217.5	19067.7	19067.7	19053.5	19035.6
7.5°	19017.8	19024.9	18914.4	18825.3	18882.3	18957.2	18846.6	18900.1	18821.7	18882.3
10°	18729.0	18682.6	18550.7	18525.7	18589.9	18661.2	18586.3	18636.2	18564.9	18611.3
12.5°	18304.6	18233.3	18126.3	18094.2	18204.8	18301.0	18240.4	18211.9	18119.2	18233.3
15°	16667.8	16614.3	16856.8	17281.1	17662.7	17744.7	17680.5	17709.1	17516.5	17548.6
17.5°	13718.6	13618.8	13879.1	14884.7	16318.3	17074.3	17017.3	16831.8	16546.5	16610.7
20°	12467.0	12438.4	12409.9	12648.8	13650.9	15943.9	16022.3	15551.6	15145.1	15055.9
22.5°	11760.9	11750.2	11721.7	11775.1	12039.0	13511.8	14410.5	13975.4	13704.4	13679.4
25°	11115.4	11097.6	11012.0	11079.8	11079.8	11165.3	12317.2	12581.1	12342.1	12313.6
27.5°	10459.3	10427.2	10412.9	10445.0	10281.0	9703.3	9995.7	11283.0	11158.2	11165.3
30°	9749.6	9738.9	9699.7	9767.4	9261.1	8544.3	8358.9	10106.2	10131.2	10124.1
32.5°	8694.1	8740.4	8918.7	8993.6	8159.2	7567.2	7256.9	8744.0	9253.9	9243.2
35°	6315.5	6315.5	6896.8	7977.3	7150.0	6704.2	6536.6	7413.8	8387.4	8423.0
37.5°	5192.2	5210.0	5324.1	5816.2	6169.3	6012.4	5962.5	6240.6	7274.8	7331.8
40°	4671.5	4671.5	4671.5	4468.3	4457.6	5416.9	5388.3	5299.2	6283.4	6408.2
42.5°	4197.3	4208.0	4215.1	3701.6	3416.3	4682.2	4618.1	4482.5	5395.5	5541.7
45°	3708.7	3726.5	3747.9	3095.3	2970.5	3369.9	3908.4	3758.6	4518.2	4707.2
47.5°	2264.5	2293.0	2778.0	2624.6	2638.9	2599.7	3188.1	3163.1	3705.1	3972.6
50°	1529.8	1540.5	1586.9	1665.4	2264.5	2043.4	2257.3	2617.5	2813.6	3220.2
52.5°	1283.8	1301.6	1187.5	1080.5	1487.0	1597.6	1576.2	1943.5	2022.0	2524.8
55°	902.2	959.3	905.8	895.1	845.2	1241.0	1194.6	1494.2	1544.1	1918.5
57.5°	92.7	107.0	185.4	666.9	552.7	702.5	852.3	1094.8	1144.7	1415.7
60°	7.1	7.1	17.8	92.7	403.0	420.8	588.4	674.0	770.3	987.8
62.5°	0.0	3.6	7.1	14.3	64.2	224.7	296.0	353.0	463.6	638.3
65°	0.0	0.0	3.6	10.7	14.3	85.6	114.1	185.4	253.2	395.8
67.5°	0.0	0.0	3.6	7.1	10.7	21.4	39.2	67.8	135.5	224.7
70°	0.0	0.0	3.6	7.1	10.7	17.8	28.5	42.8	60.6	121.2
72.5°	0.0	0.0	3.6	3.6	7.1	17.8	21.4	28.5	42.8	60.6
75°	0.0	0.0	3.6	3.6	10.7	21.4	17.8	21.4	28.5	39.2
77.5°	0.0	0.0	3.6	7.1	10.7	21.4	17.8	21.4	21.4	25.0
80°	0.0	0.0	3.6	7.1	14.3	25.0	21.4	21.4	17.8	17.8
82.5°	0.0	0.0	3.6	10.7	14.3	32.1	32.1	28.5	14.3	10.7
85°	0.0	0.0	7.1	14.3	21.4	35.7	35.7	28.5	10.7	7.1
87.5°	0.0	0.0	7.1	10.7	17.8	25.0	35.7	28.5	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°
19271.0	0°	19271.0	19271.0	19271.0	19271.0	19271.0	19271.0	19271.0	19271.0	19271.0
19210.4	2.5°	19306.7	19285.3	19356.6	19385.1	19424.3	19274.6	19181.9	19185.4	19014.3
18992.9	5°	19107.0	19110.5	19203.3	19196.1	19235.3	19153.3	19117.7	19057.0	18907.3
18718.3	7.5°	18853.8	18821.7	18910.8	18978.6	18878.7	18935.8	18853.8	18882.3	18793.2
18475.8	10°	18657.6	18582.8	18664.8	18711.1	18714.7	18657.6	18579.2	18504.3	18472.2
18097.8	12.5°	18222.6	18126.3	18265.4	18329.6	18318.9	18208.3	18119.2	18137.0	18033.6
17434.5	15°	17623.5	17627.1	17726.9	17787.5	17730.5	17705.5	17712.6	17669.8	17580.7
16518.0	17.5°	16707.0	16760.5	17024.4	17170.6	17202.7	17152.8	17127.8	17077.9	16988.7
15055.9	20°	15180.7	15501.7	15972.4	16425.3	16514.4	16500.2	16411.0	16389.6	16339.7
13608.1	22.5°	13839.9	14078.8	14624.4	15330.5	15694.2	15729.9	15622.9	15590.8	15537.3
12313.6	25°	12452.7	12709.5	13201.6	13968.3	14720.7	14874.1	14856.2	14759.9	14702.9
11165.3	27.5°	11283.0	11539.8	11985.5	12677.4	13483.3	13975.4	14021.8	13868.4	13864.9
10141.9	30°	10227.5	10580.5	10919.3	11482.7	12263.7	13001.9	13080.3	12973.3	12984.0
9204.0	32.5°	9400.1	9692.6	9981.4	10359.4	11008.4	11867.9	12174.5	12074.7	12035.5
8423.0	35°	8555.0	8754.7	9050.7	9396.6	9838.8	10691.1	11222.4	11147.5	11108.3
7367.5	37.5°	7592.1	7934.5	8148.5	8537.2	8883.1	9560.6	10309.5	10298.8	10216.8
6468.8	40°	6604.3	6964.5	7289.0	7681.3	7948.8	8487.2	9318.1	9314.6	9325.3
5538.1	42.5°	5709.3	6040.9	6433.2	6861.1	7117.9	7510.1	8401.6	8451.6	8512.2
4771.4	45°	4899.8	5199.3	5563.1	6083.7	6394.0	6618.6	7410.3	7638.5	7634.9
4086.7	47.5°	4172.3	4454.0	4760.7	5267.1	5662.9	5866.2	6522.3	6846.8	6825.4
3352.1	50°	3501.9	3751.5	4072.4	4439.7	4971.1	5149.4	5637.9	6065.9	6033.8
2671.0	52.5°	2817.2	3163.1	3434.1	3769.3	4329.2	4503.9	4881.9	5299.2	5274.2
2004.1	55°	2196.7	2531.9	2860.0	3148.8	3619.6	3879.9	4150.9	4578.8	4571.7
1569.1	57.5°	1661.8	2029.1	2339.3	2613.9	2988.4	3309.3	3526.8	3915.5	3965.5
1073.4	60°	1230.3	1512.0	1847.2	2153.9	2449.9	2781.5	2927.7	3309.3	3330.7
734.6	62.5°	838.0	1148.3	1476.4	1754.5	1975.6	2317.9	2449.9	2763.7	2802.9
470.7	65°	581.3	781.0	1155.4	1355.1	1626.1	1918.5	2050.5	2300.1	2378.6
271.0	67.5°	385.1	556.3	902.2	1084.1	1351.5	1551.2	1718.8	1922.1	2007.7
171.2	70°	210.4	410.1	645.5	855.9	1087.6	1280.2	1444.3	1608.3	1683.2
78.5	72.5°	142.6	274.6	449.3	677.6	877.3	1066.3	1212.5	1333.7	1337.3
46.4	75°	71.3	185.4	342.3	524.2	684.7	870.1	1002.1	1073.4	987.8
28.5	77.5°	42.8	135.5	278.2	420.8	556.3	702.5	777.4	816.6	677.6
21.4	80°	25.0	96.3	217.5	335.2	385.1	517.1	588.4	599.1	452.9
14.3	82.5°	17.8	71.3	171.2	246.1	235.4	363.7	442.2	427.9	288.9
10.7	85°	10.7	49.9	107.0	153.3	142.6	238.9	256.8	263.9	167.6
7.1	87.5°	7.1	28.5	57.1	82.0	67.8	103.4	103.4	124.8	82.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
19271.0
18793.2
18871.6
18643.4
18329.6
17944.4
17491.5
16949.5
16225.6
15523.1
14642.3
13857.7
12930.5
12039.0
11054.8
10284.5
9325.3
8480.1
7642.1
6832.6
6062.3
5327.7
4589.5
3944.1
3362.8
2810.1
2360.7
1997.0
1654.7
1305.2
923.6
652.6
424.4
267.5
153.3
71.3
0.0

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