

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: P637730

Luminaire Tested: **IFLD-S-SA3C-827-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637730
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-827-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14626.4 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 160.8
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

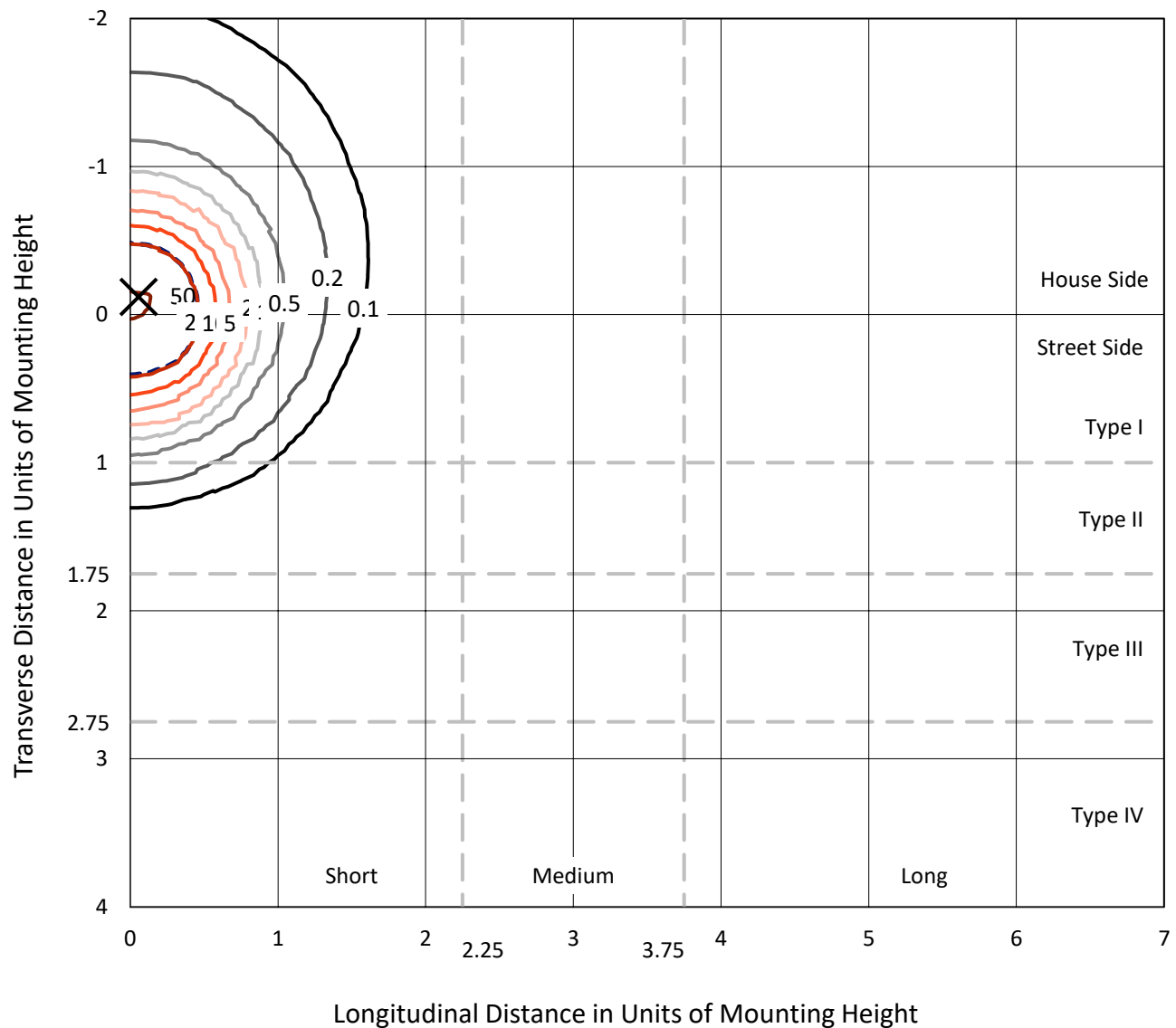


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Iso-Footcandle Lines of Horizontal Illumination

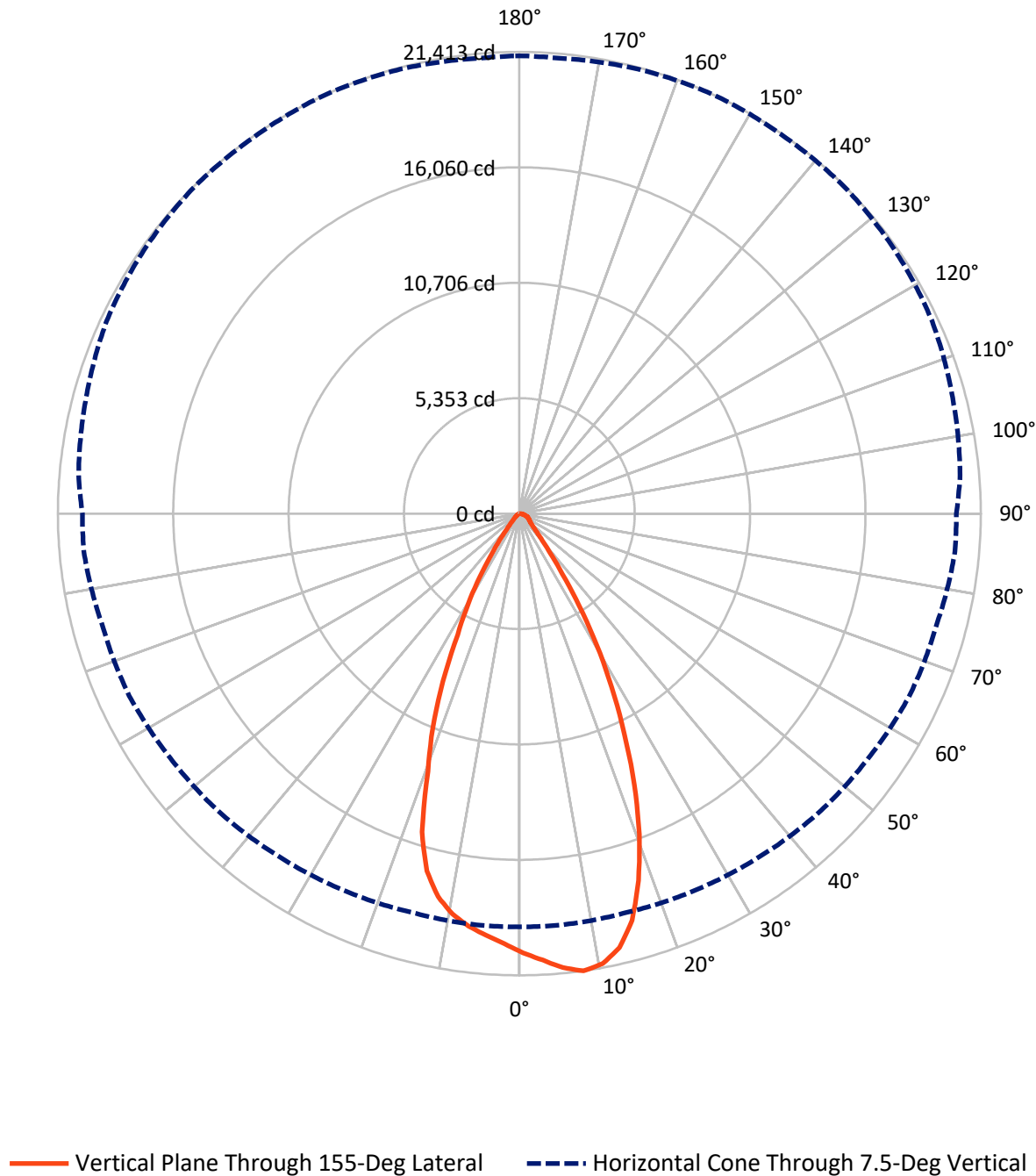
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 51.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8074.3	0.0	8074.3
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	6552.1	0.0	6552.1
	% Fixture	44.8	0.0	44.8
Total	Lumens	14626.4	0.0	14626.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1943.0	13.3
10°-20°	5038.1	34.4
20°-30°	4616.3	31.6
30°-40°	1865.0	12.8
40°-50°	547.1	3.7
50°-60°	305.9	2.1
60°-70°	185.8	1.3
70°-80°	94.4	0.6
80°-90°	30.9	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°	14626.4	100.0
0°-180°	14626.4	100.0

Coefficient of Utilization



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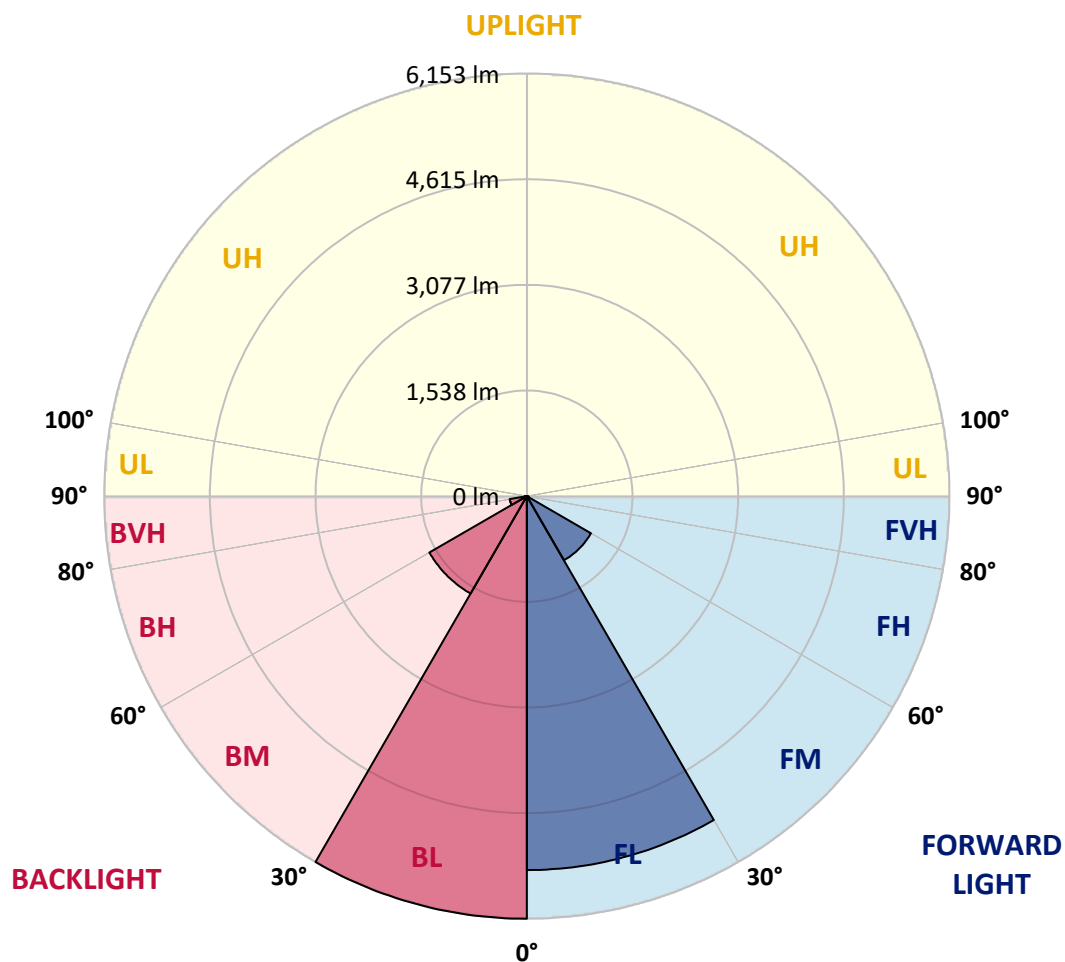
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5444.3	37.2			
FM	(30°-60°)	1079.0	7.4			
FH	(60°-80°)	26.1	0.2			G0/660
FVH	(80°-90°)	2.7	0.0			G0/10
BL	(0°-30°)	6153.0	42.1	B5		
BM	(30°-60°)	1639.0	11.2	B2/2500		
BH	(60°-80°)	254.1	1.7	B1/500		G1/500
BVH	(80°-90°)	28.2	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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	20375.7	20375.7	20375.7	20375.7	20375.7	20375.7	20375.7	20375.7	20375.7	20375.7
2.5°	19933.8	20001.2	19866.3	19955.7	20024.9	20190.1	20203.6	20261.0	20281.2	20431.3
5°	19556.0	19608.3	19498.6	19618.4	19716.2	19862.9	19975.9	20134.5	20222.2	20399.3
7.5°	19163.0	19174.8	19152.9	19279.4	19426.1	19628.5	19768.5	19975.9	20029.9	20282.9
10°	18687.4	18601.4	18643.5	18829.1	19048.3	19358.7	19454.8	19662.2	19758.4	20016.4
12.5°	17928.4	17972.3	17920.0	18156.1	18338.3	18690.8	18792.0	19001.1	19184.9	19412.6
15°	16859.1	16833.8	16940.1	17123.9	17321.3	17601.2	17764.8	17992.5	18132.5	18368.6
17.5°	14455.7	14541.8	14980.3	15440.7	15845.5	16172.7	16368.3	16557.2	16658.4	16914.8
20°	12484.1	12376.2	12435.2	12694.9	13846.9	14347.8	14553.6	14599.1	14641.3	14843.7
22.5°	10279.8	10244.3	10441.7	10733.4	11006.7	12162.0	12442.0	12335.7	12423.4	12614.0
25°	7633.5	7812.3	7987.7	8547.6	8901.8	9468.5	9999.8	10047.0	10079.0	10198.8
27.5°	6213.4	6151.0	6147.6	6304.5	6827.3	7299.6	7751.6	7856.1	7837.6	7952.3
30°	4884.4	4864.1	4793.3	4830.4	4778.1	5198.1	5410.6	5840.7	5817.0	5820.4
32.5°	3523.3	3447.4	3418.7	3474.4	3420.4	3381.6	3567.1	4052.9	4044.4	4078.2
35°	2131.8	2121.7	2145.3	2194.3	2086.3	2082.9	2121.7	2578.8	2634.4	2688.4
37.5°	1177.2	1167.1	1185.7	1366.1	1330.7	1298.7	1308.8	1550.0	1710.2	1750.7
40°	775.8	774.1	787.6	819.7	880.4	868.6	873.7	981.6	1133.4	1168.8
42.5°	519.5	521.2	529.6	566.7	575.1	635.8	625.7	651.0	792.7	823.1
45°	414.9	413.2	418.3	401.4	411.5	473.9	480.7	482.4	603.8	622.4
47.5°	327.2	327.2	332.3	310.3	305.3	344.1	379.5	384.5	482.4	507.7
50°	229.4	229.4	254.7	244.6	256.4	268.2	307.0	312.0	394.7	421.6
52.5°	168.7	172.0	175.4	177.1	215.9	214.2	247.9	271.5	298.5	345.8
55°	128.2	131.6	123.1	131.6	160.2	178.8	185.5	219.3	237.8	290.1
57.5°	84.3	92.8	86.0	101.2	107.9	138.3	148.4	180.5	192.3	237.8
60°	11.8	13.5	21.9	70.8	75.9	91.1	114.7	143.4	155.2	194.0
62.5°	1.7	1.7	5.1	11.8	50.6	60.7	86.0	99.5	114.7	145.0
65°	0.0	0.0	1.7	3.4	10.1	35.4	43.9	54.0	79.3	104.6
67.5°	0.0	0.0	1.7	3.4	5.1	11.8	18.6	35.4	45.5	72.5
70°	0.0	0.0	1.7	3.4	5.1	6.7	10.1	13.5	27.0	42.2
72.5°	0.0	0.0	1.7	3.4	5.1	6.7	8.4	10.1	11.8	27.0
75°	0.0	0.0	1.7	3.4	5.1	8.4	10.1	10.1	10.1	11.8
77.5°	0.0	0.0	1.7	3.4	6.7	10.1	11.8	10.1	8.4	8.4
80°	0.0	0.0	1.7	5.1	8.4	11.8	13.5	10.1	6.7	5.1
82.5°	0.0	0.0	1.7	5.1	8.4	11.8	13.5	11.8	6.7	5.1
85°	0.0	0.0	1.7	5.1	6.7	8.4	13.5	11.8	6.7	3.4
87.5°	0.0	0.0	0.0	1.7	1.7	3.4	6.7	5.1	3.4	1.7
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°
20375.7	0°	20375.7	20375.7	20375.7	20375.7	20375.7	20375.7	20375.7	20375.7	20375.7
20427.9	2.5°	20579.7	20655.6	20788.9	20826.0	20940.7	20809.1	20736.6	20743.3	20586.5
20377.3	5°	20579.7	20753.5	20986.2	21097.5	21181.9	21175.1	21156.6	21109.3	20994.6
20276.2	7.5°	20525.8	20809.1	21129.6	21278.0	21379.2	21370.7	21412.9	21337.0	21197.0
20095.7	10°	20352.1	20598.3	20993.0	21114.4	21278.0	21281.4	21229.1	21244.3	20994.6
19436.2	12.5°	19805.6	19997.9	20343.6	20481.9	20680.9	20713.0	20655.6	20633.7	20397.6
18355.1	15°	18748.1	18859.4	19206.9	19345.2	19542.5	19515.5	19572.8	19549.2	19341.8
16894.5	17.5°	17201.5	17236.9	17601.2	17717.6	17903.1	17975.6	17889.6	17999.3	17820.5
14879.1	20°	14983.6	15174.2	15584.1	15762.8	15870.8	16000.7	15887.7	16010.8	15801.6
12433.5	22.5°	12733.7	12846.7	13217.8	13475.8	13676.5	13701.8	13659.7	13745.7	13464.0
10278.1	25°	10276.4	10463.6	10757.1	11094.4	11291.7	11413.1	11303.5	11359.2	11313.6
7970.8	27.5°	8105.7	8272.7	8493.7	8745.0	9041.8	9200.3	9112.6	9207.1	8984.5
5943.5	30°	5948.6	6032.9	6282.5	6549.0	6874.5	7066.8	7075.2	7171.4	7039.8
4164.2	32.5°	4194.5	4268.8	4422.2	4599.3	4909.7	5123.9	5090.1	5103.6	5022.7
2713.7	35°	2727.2	2826.7	2936.3	3020.7	3207.9	3444.0	3425.5	3408.6	3352.9
1784.4	37.5°	1823.2	1862.0	1922.7	1998.6	2120.0	2268.5	2317.4	2256.7	2233.0
1204.2	40°	1232.9	1300.4	1340.8	1398.2	1455.5	1580.3	1614.1	1602.3	1578.6
843.3	42.5°	875.3	927.6	978.2	1033.9	1064.2	1141.8	1207.6	1189.0	1178.9
640.9	45°	664.5	711.7	770.8	812.9	843.3	888.8	951.2	958.0	942.8
514.4	47.5°	533.0	575.1	622.4	674.6	710.1	738.7	792.7	812.9	802.8
433.5	50°	452.0	484.1	529.6	581.9	620.7	646.0	693.2	715.1	708.4
362.6	52.5°	384.5	423.3	465.5	509.3	556.6	581.9	625.7	657.8	652.7
300.2	55°	318.8	369.4	413.2	457.1	511.0	536.3	575.1	617.3	608.9
254.7	57.5°	278.3	320.5	366.0	408.2	465.5	499.2	534.6	578.5	576.8
209.1	60°	232.7	274.9	325.5	360.9	421.6	468.9	500.9	546.5	549.8
158.5	62.5°	185.5	237.8	276.6	325.5	381.2	436.8	467.2	512.7	529.6
121.4	65°	138.3	195.6	239.5	288.4	340.7	403.1	430.1	475.6	492.5
87.7	67.5°	102.9	146.7	202.4	244.6	303.6	357.6	389.6	431.8	443.6
52.3	70°	77.6	113.0	168.7	205.8	266.5	310.3	342.4	374.4	389.6
35.4	72.5°	45.5	84.3	133.2	177.1	229.4	266.5	290.1	315.4	325.5
16.9	75°	32.0	64.1	104.6	146.7	185.5	215.9	237.8	259.7	269.9
8.4	77.5°	16.9	47.2	82.6	118.1	145.0	170.3	192.3	209.1	215.9
6.7	80°	10.1	33.7	67.5	92.8	111.3	133.2	155.2	167.0	165.3
5.1	82.5°	6.7	27.0	48.9	67.5	81.0	97.8	113.0	121.4	121.4
3.4	85°	5.1	18.6	33.7	52.3	54.0	67.5	70.8	79.3	81.0
3.4	87.5°	3.4	11.8	18.6	30.4	28.7	35.4	37.1	42.2	45.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
20375.7
20460.0
21031.7
21229.1
20922.1
20343.6
19407.6
17776.6
15784.8
13425.2
11285.0
9041.8
7063.4
5068.2
3304.0
2228.0
1582.0
1170.5
941.1
797.8
706.7
649.3
608.9
575.1
549.8
527.9
490.8
443.6
386.2
322.1
266.5
214.2
163.6
119.7
79.3
43.9
0.0

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