

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: P637577

Luminaire Tested: **IFLD-L-SA8D-727-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637577
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-727-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43793.7 lumens
Efficiency: N/A
Efficacy: 89.7 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): 488.3
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

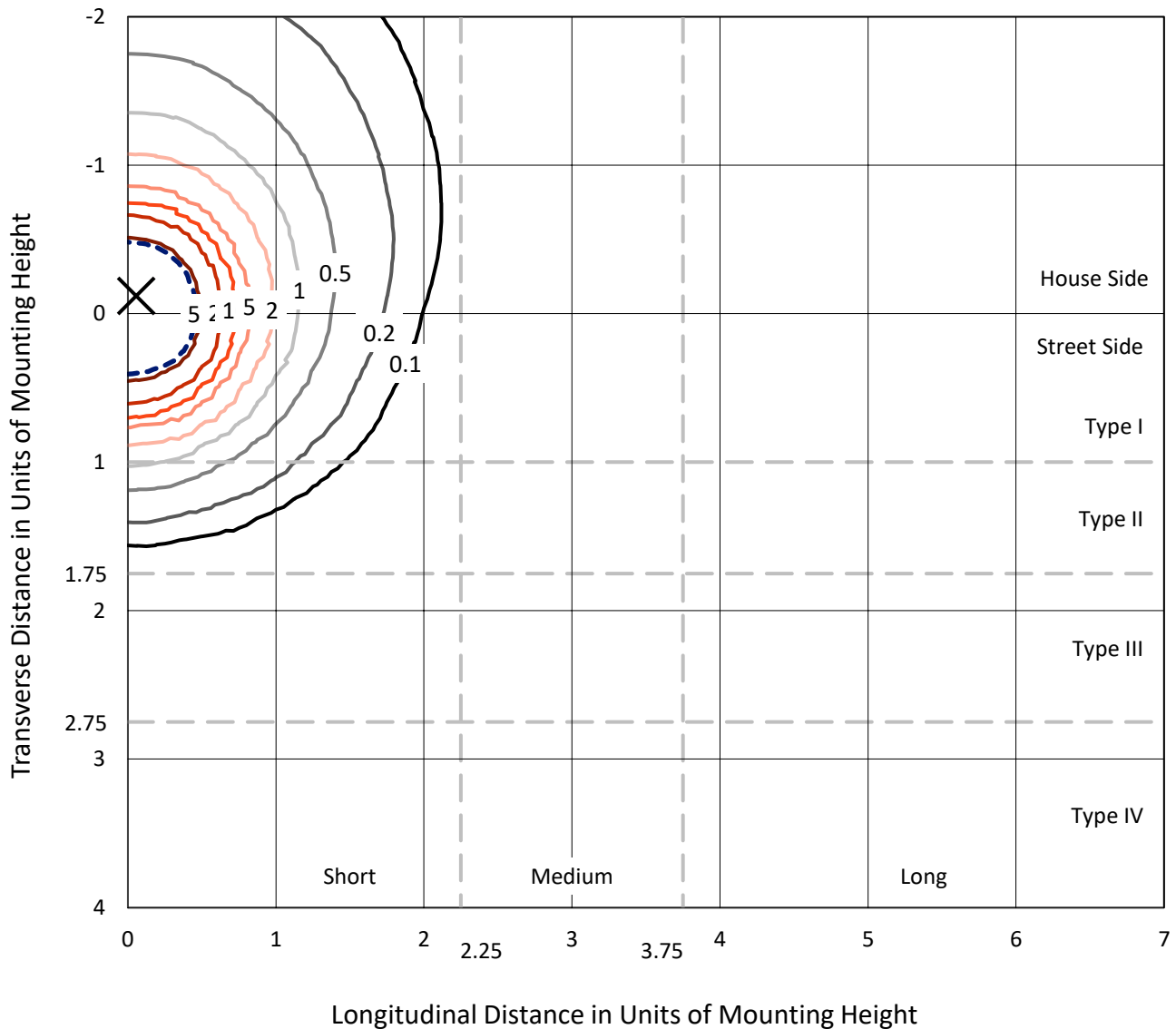


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

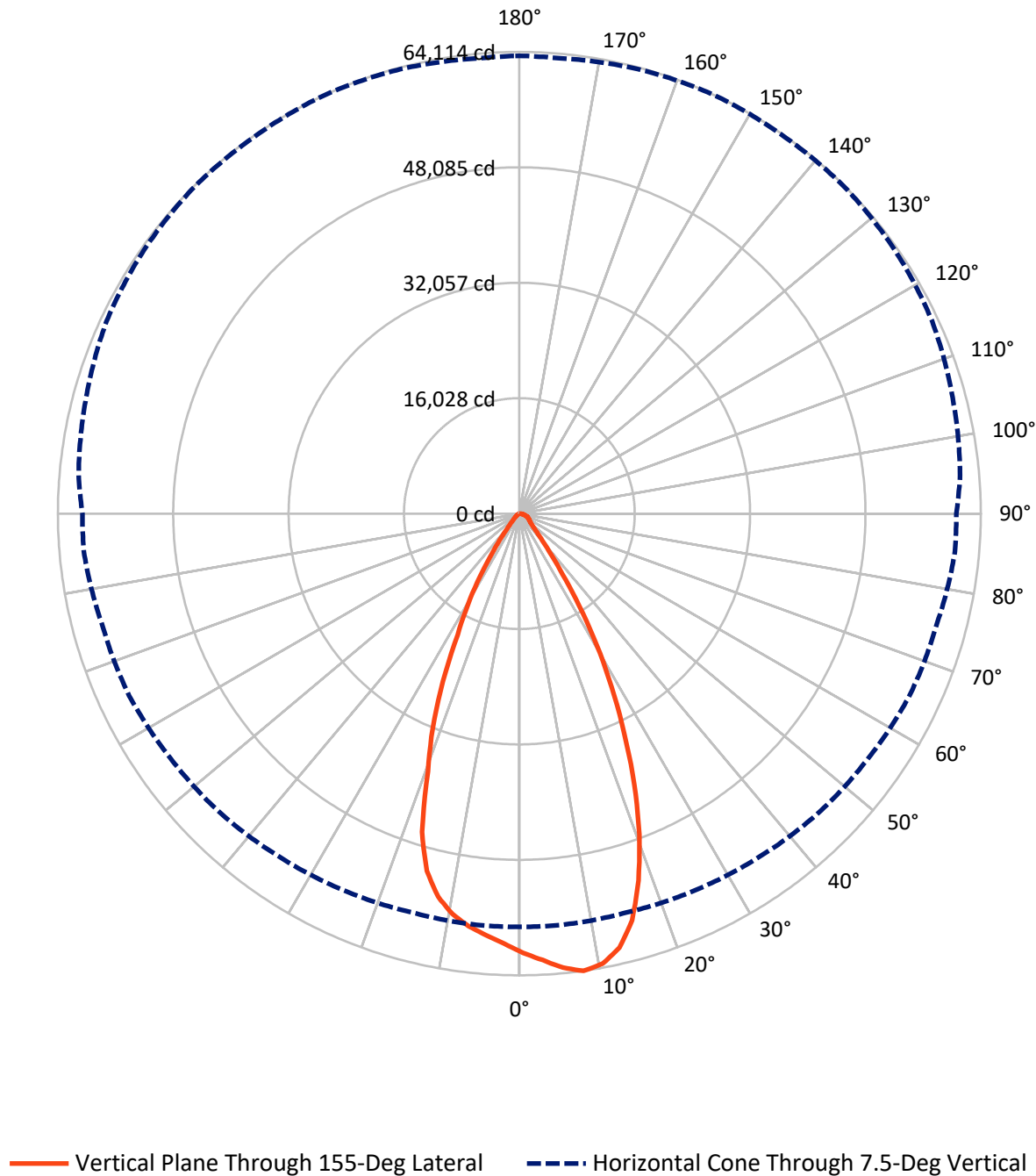


Based on 20 foot mounting height. Maximum calculated value = 155 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24175.7	0.0	24175.7
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	19618.0	0.0	19618.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	43793.7	0.0	43793.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5817.5	13.3
10°-20°	15084.9	34.4
20°-30°	13821.9	31.6
30°-40°	5584.1	12.8
40°-50°	1638.1	3.7
50°-60°	915.9	2.1
60°-70°	556.3	1.3
70°-80°	282.6	0.6
80°-90°	92.4	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°	43793.7	100.0
0°-180°	43793.7	100.0

Coefficient of Utilization



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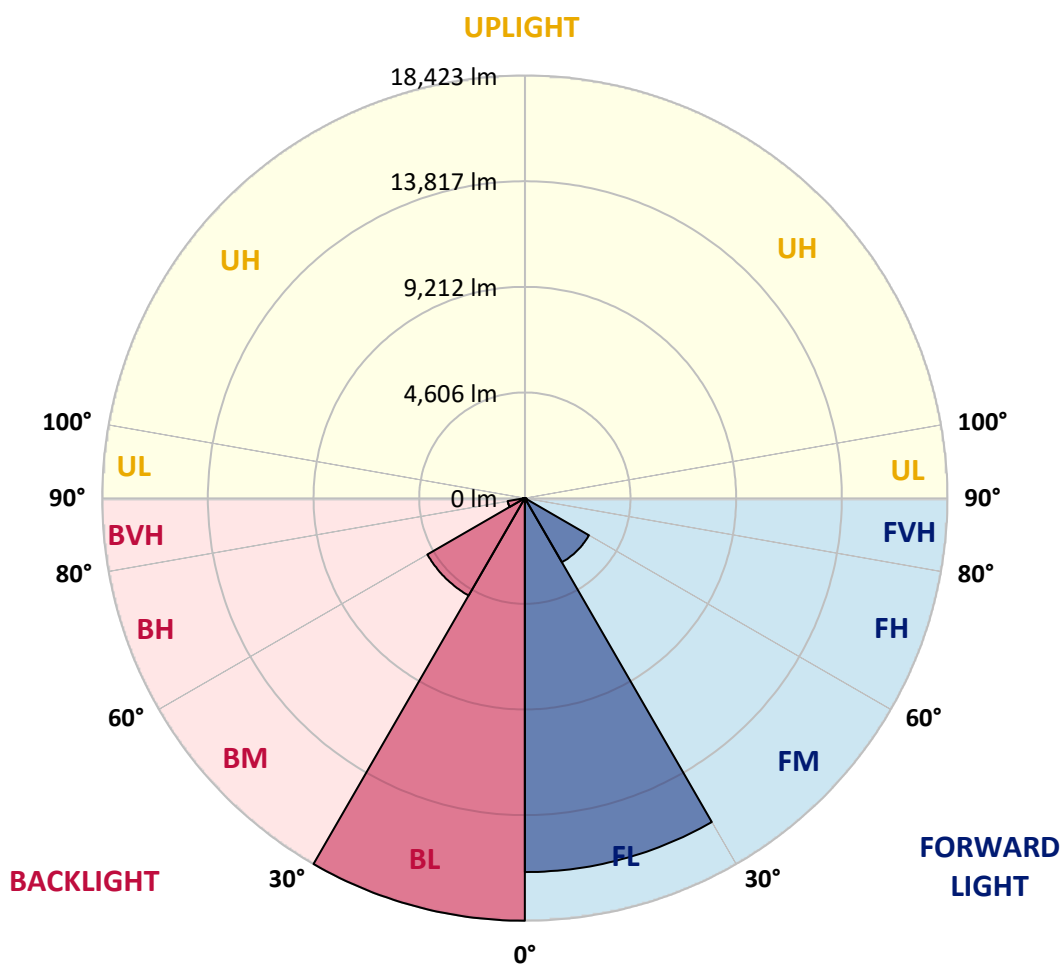
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	16301.1	37.2			
FM	(30°-60°)	3230.6	7.4			
FH	(60°-80°)	78.2	0.2			G0/660
FVH	(80°-90°)	8.0	0.0			G0/10
BL	(0°-30°)	18423.2	42.1	B5		
BM	(30°-60°)	4907.5	11.2	B3/5000		
BH	(60°-80°)	760.7	1.7	B2/1000		G2/1000
BVH	(80°-90°)	84.4	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°	61008.1	61008.1	61008.1	61008.1	61008.1	61008.1	61008.1	61008.1	61008.1	61008.1
2.5°	59685.0	59887.0	59483.0	59750.7	59957.7	60452.6	60493.0	60664.7	60725.3	61174.7
5°	58553.8	58710.4	58382.1	58740.7	59033.6	59472.9	59811.3	60286.0	60548.6	61078.8
7.5°	57377.2	57412.5	57346.9	57725.6	58165.0	58771.0	59190.1	59811.3	59972.9	60730.3
10°	55953.1	55695.6	55821.8	56377.3	57033.8	57963.0	58250.8	58872.0	59159.8	59932.5
12.5°	53680.7	53812.0	53655.4	54362.4	54907.8	55963.2	56266.2	56892.4	57442.8	58124.6
15°	50479.0	50403.3	50721.4	51271.8	51862.7	52701.0	53190.8	53872.6	54291.7	54998.7
17.5°	43282.9	43540.4	44853.4	46232.0	47444.0	48423.7	49009.5	49575.1	49878.1	50645.7
20°	37379.5	37056.3	37233.1	38010.8	41459.8	42959.7	43575.8	43712.1	43838.4	44444.4
22.5°	30779.3	30673.2	31264.1	32137.7	32955.8	36415.0	37253.3	36935.1	37197.7	37768.4
25°	22855.9	23391.2	23916.4	25593.0	26653.5	28350.3	29941.0	30082.4	30178.3	30536.9
27.5°	18603.9	18417.1	18407.0	18876.6	20442.1	21856.1	23209.4	23522.5	23467.0	23810.4
30°	14624.6	14564.0	14351.9	14463.0	14306.4	15563.9	16200.1	17487.9	17417.2	17427.3
32.5°	10549.3	10322.0	10236.2	10402.8	10241.2	10125.1	10680.6	12135.0	12109.7	12210.7
35°	6383.1	6352.8	6423.5	6569.9	6246.8	6236.7	6352.8	7721.3	7888.0	8049.6
37.5°	3524.8	3494.5	3550.1	4090.4	3984.4	3888.4	3918.7	4640.9	5120.6	5241.8
40°	2323.0	2317.9	2358.3	2454.3	2636.1	2600.7	2615.9	2939.1	3393.5	3499.6
42.5°	1555.4	1560.4	1585.7	1696.8	1722.0	1903.8	1873.5	1949.3	2373.5	2464.4
45°	1242.3	1237.2	1252.4	1201.9	1232.2	1419.0	1439.2	1444.3	1807.9	1863.4
47.5°	979.7	979.7	994.8	929.2	914.0	1030.2	1136.2	1151.4	1444.3	1520.0
50°	686.8	686.8	762.5	732.2	767.6	802.9	919.1	934.2	1181.7	1262.5
52.5°	505.0	515.1	525.2	530.2	646.4	641.3	742.3	813.0	893.8	1035.2
55°	383.8	393.9	368.6	393.9	479.7	535.3	555.5	656.5	712.0	868.6
57.5°	252.5	277.7	257.5	303.0	323.2	414.1	444.4	540.3	575.7	712.0
60°	35.3	40.4	65.6	212.1	227.2	272.7	343.4	429.2	464.6	580.7
62.5°	5.0	5.0	15.1	35.3	151.5	181.8	257.5	297.9	343.4	434.3
65°	0.0	0.0	5.0	10.1	30.3	106.0	131.3	161.6	237.3	313.1
67.5°	0.0	0.0	5.0	10.1	15.1	35.3	55.5	106.0	136.3	217.1
70°	0.0	0.0	5.0	10.1	15.1	20.2	30.3	40.4	80.8	126.2
72.5°	0.0	0.0	5.0	10.1	15.1	20.2	25.2	30.3	35.3	80.8
75°	0.0	0.0	5.0	10.1	15.1	25.2	30.3	30.3	30.3	35.3
77.5°	0.0	0.0	5.0	10.1	20.2	30.3	35.3	30.3	25.2	25.2
80°	0.0	0.0	5.0	15.1	25.2	35.3	40.4	30.3	20.2	15.1
82.5°	0.0	0.0	5.0	15.1	25.2	35.3	40.4	35.3	20.2	15.1
85°	0.0	0.0	5.0	15.1	20.2	25.2	40.4	35.3	20.2	10.1
87.5°	0.0	0.0	0.0	5.0	5.0	10.1	20.2	15.1	10.1	5.0
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°
61008.1	0°	61008.1	61008.1	61008.1	61008.1	61008.1	61008.1	61008.1	61008.1	61008.1
61164.6	2.5°	61619.1	61846.4	62245.3	62356.4	62699.8	62305.9	62088.8	62109.0	61639.3
61013.1	5°	61619.1	62139.3	62836.2	63169.5	63422.0	63401.8	63346.2	63204.8	62861.4
60710.1	7.5°	61457.5	62305.9	63265.4	63709.8	64012.8	63987.5	64113.8	63886.5	63467.4
60169.8	10°	60937.4	61674.7	62856.4	63220.0	63709.8	63719.9	63563.4	63608.8	62861.4
58195.3	12.5°	59301.2	59876.9	60912.1	61326.2	61922.1	62018.1	61846.4	61780.7	61073.7
54958.3	15°	56134.9	56468.2	57508.5	57922.6	58513.4	58432.6	58604.3	58533.6	57912.5
50585.1	17.5°	51504.1	51610.2	52701.0	53049.4	53604.9	53822.1	53564.5	53892.8	53357.5
44550.4	20°	44863.5	45434.1	46661.3	47196.6	47519.8	47908.6	47570.3	47938.9	47312.7
37228.0	22.5°	38126.9	38465.2	39576.2	40348.9	40949.8	41025.6	40899.3	41156.9	40313.5
30774.2	25°	30769.2	31329.7	32208.4	33218.4	33809.2	34172.8	33844.6	34011.2	33874.9
23865.9	27.5°	24269.9	24769.9	25431.4	26183.8	27072.6	27547.3	27284.7	27567.5	26900.9
17795.9	30°	17811.1	18063.6	18811.0	19608.8	20583.5	21159.2	21184.4	21472.3	21078.4
12468.3	32.5°	12559.2	12781.3	13240.9	13771.1	14700.3	15341.7	15240.7	15281.1	15038.7
8125.3	35°	8165.7	8463.7	8791.9	9044.4	9604.9	10311.9	10256.4	10205.9	10039.2
5342.8	37.5°	5459.0	5575.1	5756.9	5984.2	6347.8	6792.1	6938.6	6756.8	6686.1
3605.6	40°	3691.5	3893.5	4014.7	4186.4	4358.1	4731.8	4832.8	4797.4	4726.7
2525.0	42.5°	2620.9	2777.5	2929.0	3095.6	3186.5	3418.8	3615.7	3560.2	3529.9
1919.0	45°	1989.7	2131.1	2307.8	2434.1	2525.0	2661.3	2848.2	2868.4	2822.9
1540.2	47.5°	1595.8	1722.0	1863.4	2020.0	2126.0	2211.9	2373.5	2434.1	2403.8
1297.8	50°	1353.4	1449.3	1585.7	1742.2	1858.4	1934.1	2075.5	2141.2	2121.0
1085.7	52.5°	1151.4	1267.5	1393.8	1525.1	1666.5	1742.2	1873.5	1969.5	1954.3
898.9	55°	954.4	1105.9	1237.2	1368.5	1530.1	1605.9	1722.0	1848.3	1823.0
762.5	57.5°	833.2	959.5	1095.8	1222.1	1393.8	1494.8	1600.8	1732.1	1727.1
626.2	60°	696.9	823.1	974.6	1080.7	1262.5	1403.9	1499.8	1636.2	1646.3
474.7	62.5°	555.5	712.0	828.2	974.6	1141.3	1307.9	1398.8	1535.2	1585.7
363.6	65°	414.1	585.8	717.1	863.5	1020.1	1206.9	1287.7	1424.1	1474.6
262.6	67.5°	308.0	439.3	606.0	732.2	909.0	1070.6	1166.5	1292.8	1328.1
156.5	70°	232.3	338.3	505.0	616.1	797.9	929.2	1025.1	1121.1	1166.5
106.0	72.5°	136.3	252.5	398.9	530.2	686.8	797.9	868.6	944.3	974.6
50.5	75°	95.9	191.9	313.1	439.3	555.5	646.4	712.0	777.7	808.0
25.2	77.5°	50.5	141.4	247.4	353.5	434.3	510.0	575.7	626.2	646.4
20.2	80°	30.3	101.0	202.0	277.7	333.3	398.9	464.6	499.9	494.9
15.1	82.5°	20.2	80.8	146.4	202.0	242.4	292.9	338.3	363.6	363.6
10.1	85°	15.1	55.5	101.0	156.5	161.6	202.0	212.1	237.3	242.4
10.1	87.5°	10.1	35.3	55.5	90.9	85.8	106.0	111.1	126.2	136.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
61008.1
61260.6
62972.5
63563.4
62644.3
60912.1
58109.4
53226.2
47262.2
40197.4
33789.0
27072.6
21149.1
15175.0
9892.8
6670.9
4736.8
3504.6
2817.9
2388.6
2115.9
1944.2
1823.0
1722.0
1646.3
1580.6
1469.5
1328.1
1156.4
964.5
797.9
641.3
489.8
358.5
237.3
131.3
0.0

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