

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: P637599

Luminaire Tested: **IFLD-L-SA7B-730-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637599
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-730-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30461.3 lumens
Efficiency: N/A
Efficacy: 108.4 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): 281
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



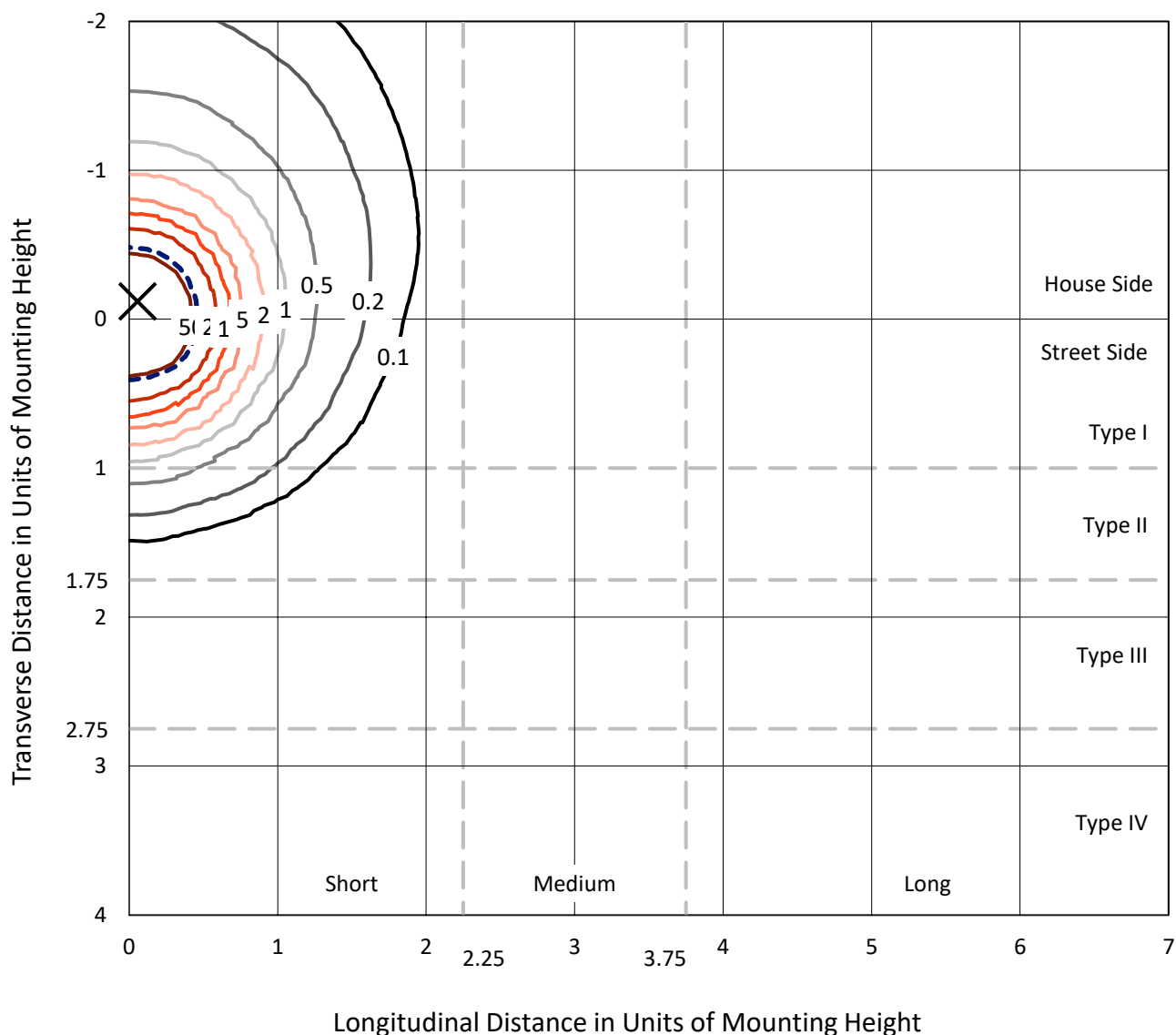
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



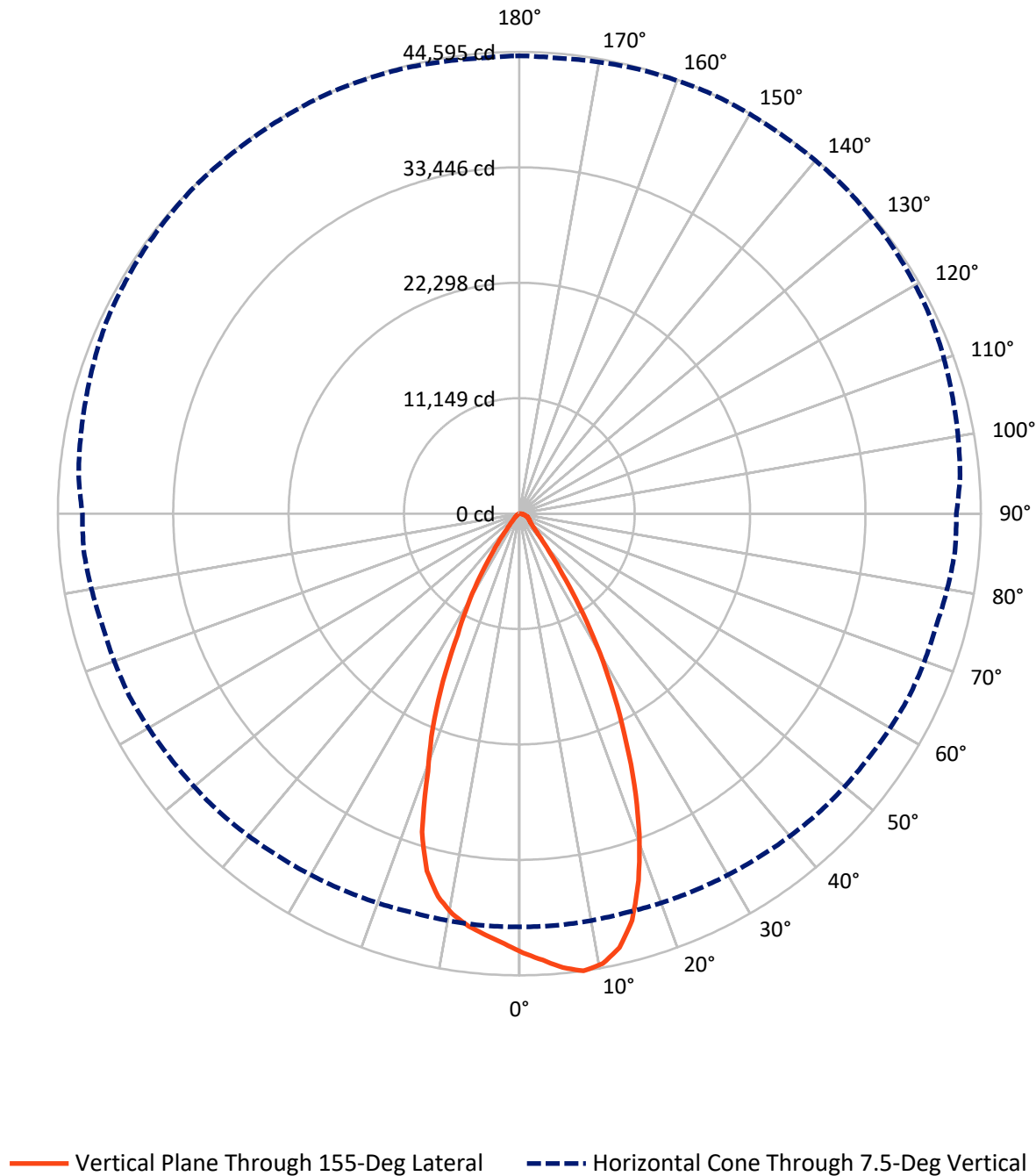
Based on 20 foot mounting height. Maximum calculated value = 107.8 fc

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	16815.8	0.0	16815.8
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	13645.6	0.0	13645.6
	% Fixture	44.8	0.0	44.8
Total	Lumens	30461.3	0.0	30461.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4046.5	13.3
10°-20°	10492.5	34.4
20°-30°	9614.0	31.6
30°-40°	3884.1	12.8
40°-50°	1139.4	3.7
50°-60°	637.1	2.1
60°-70°	386.9	1.3
70°-80°	196.6	0.6
80°-90°	64.3	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°	30461.3	100.0
0°-180°	30461.3	100.0

Coefficient of Utilization



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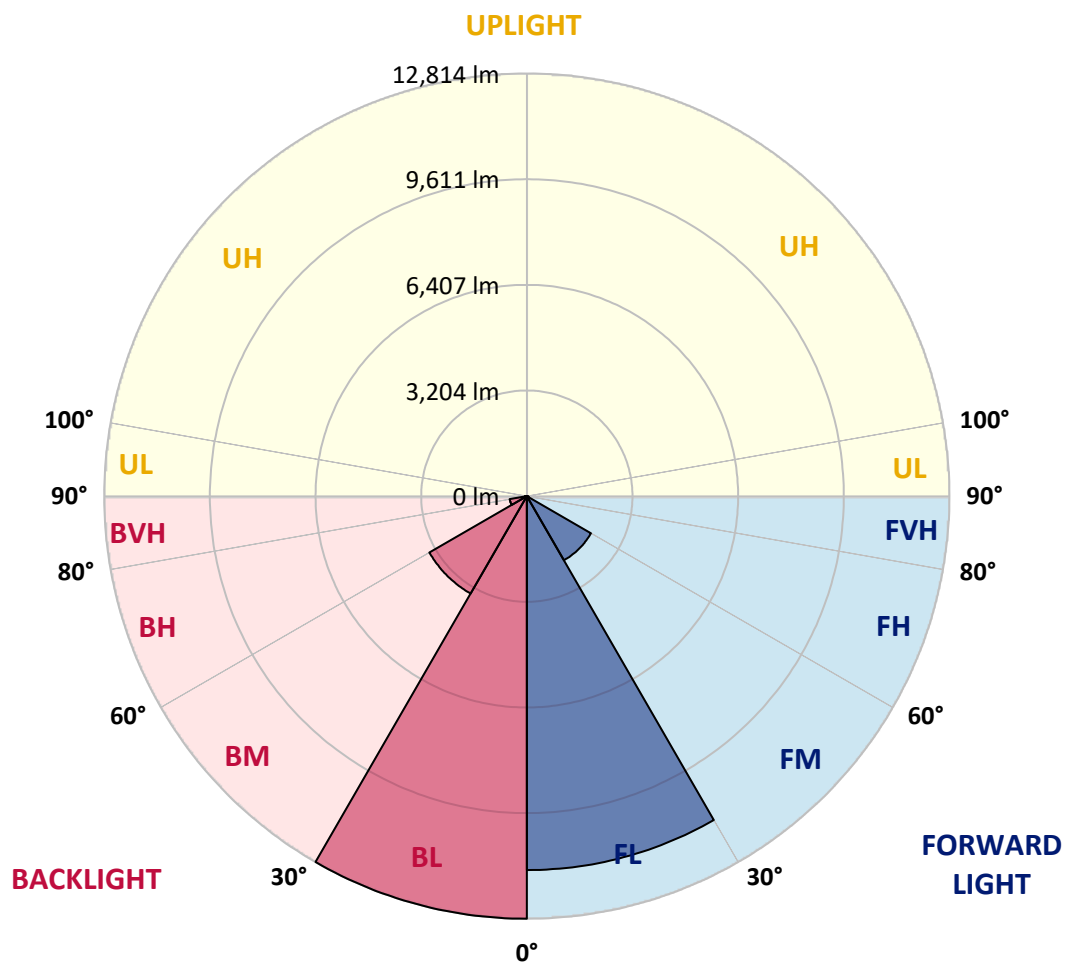
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	11338.5	37.2			
FM	(30°-60°)	2247.1	7.4			
FH	(60°-80°)	54.4	0.2			G0/660
FVH	(80°-90°)	5.6	0.0			G0/10
BL	(0°-30°)	12814.5	42.1	B5		
BM	(30°-60°)	3413.5	11.2	B3/5000		
BH	(60°-80°)	529.1	1.7	B2/1000		G2/1000
BVH	(80°-90°)	58.7	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°	42435.0	42435.0	42435.0	42435.0	42435.0	42435.0	42435.0	42435.0	42435.0	42435.0
2.5°	41514.7	41655.2	41374.2	41560.3	41704.4	42048.6	42076.7	42196.1	42238.3	42550.9
5°	40727.9	40836.8	40608.4	40857.8	41061.6	41367.1	41602.5	41932.7	42115.3	42484.1
7.5°	39909.4	39934.0	39888.4	40151.8	40457.4	40878.9	41170.4	41602.5	41714.9	42241.8
10°	38918.9	38739.8	38827.6	39214.0	39670.6	40316.9	40517.1	40949.2	41149.4	41686.8
12.5°	37338.3	37429.6	37320.7	37812.5	38191.8	38925.9	39136.7	39572.2	39955.1	40429.3
15°	35111.3	35058.6	35279.9	35662.8	36073.8	36656.8	36997.6	37471.7	37763.3	38255.0
17.5°	30106.0	30285.1	31198.4	32157.3	33000.3	33681.7	34089.2	34482.6	34693.3	35227.2
20°	25999.8	25775.0	25897.9	26438.9	28837.9	29881.2	30309.7	30404.5	30492.3	30913.8
22.5°	21408.9	21335.1	21746.1	22353.8	22922.8	25328.9	25912.0	25690.7	25873.3	26270.3
25°	15897.7	16270.1	16635.4	17801.5	18539.2	19719.4	20825.8	20924.2	20990.9	21240.3
27.5°	12940.2	12810.2	12803.2	13129.9	14218.7	15202.3	16143.6	16361.4	16322.8	16561.6
30°	10172.3	10130.2	9982.6	10059.9	9951.0	10825.6	11268.2	12163.9	12114.7	12121.8
32.5°	7337.7	7179.6	7119.9	7235.8	7123.4	7042.6	7429.0	8440.6	8423.1	8493.3
35°	4439.8	4418.8	4467.9	4569.8	4345.0	4338.0	4418.8	5370.7	5486.6	5599.0
37.5°	2451.8	2430.7	2469.3	2845.2	2771.4	2704.7	2725.7	3228.0	3561.7	3646.0
40°	1615.8	1612.3	1640.4	1707.1	1833.5	1809.0	1819.5	2044.3	2360.4	2434.2
42.5°	1081.9	1085.4	1102.9	1180.2	1197.8	1324.2	1303.2	1355.8	1650.9	1714.1
45°	864.1	860.6	871.1	836.0	857.1	987.0	1001.1	1004.6	1257.5	1296.1
47.5°	681.4	681.4	692.0	646.3	635.8	716.6	790.3	800.9	1004.6	1057.3
50°	477.7	477.7	530.4	509.3	533.9	558.5	639.3	649.8	821.9	878.1
52.5°	351.3	358.3	365.3	368.8	449.6	446.1	516.3	565.5	621.7	720.1
55°	267.0	274.0	256.4	274.0	333.7	372.3	386.4	456.6	495.3	604.2
57.5°	175.6	193.2	179.1	210.8	224.8	288.0	309.1	375.8	400.4	495.3
60°	24.6	28.1	45.7	147.5	158.1	189.7	238.9	298.6	323.2	403.9
62.5°	3.5	3.5	10.5	24.6	105.4	126.5	179.1	207.2	238.9	302.1
65°	0.0	0.0	3.5	7.0	21.1	73.8	91.3	112.4	165.1	217.8
67.5°	0.0	0.0	3.5	7.0	10.5	24.6	38.6	73.8	94.8	151.0
70°	0.0	0.0	3.5	7.0	10.5	14.1	21.1	28.1	56.2	87.8
72.5°	0.0	0.0	3.5	7.0	10.5	14.1	17.6	21.1	24.6	56.2
75°	0.0	0.0	3.5	7.0	10.5	17.6	21.1	21.1	21.1	24.6
77.5°	0.0	0.0	3.5	7.0	14.1	21.1	24.6	21.1	17.6	17.6
80°	0.0	0.0	3.5	10.5	17.6	24.6	28.1	21.1	14.1	10.5
82.5°	0.0	0.0	3.5	10.5	17.6	24.6	28.1	24.6	14.1	10.5
85°	0.0	0.0	3.5	10.5	14.1	17.6	28.1	24.6	14.1	7.0
87.5°	0.0	0.0	0.0	3.5	3.5	7.0	14.1	10.5	7.0	3.5
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°
42435.0	0°	42435.0	42435.0	42435.0	42435.0	42435.0	42435.0	42435.0	42435.0	42435.0
42543.8	2.5°	42860.0	43018.0	43295.5	43372.8	43611.7	43337.7	43186.6	43200.7	42874.0
42438.5	5°	42860.0	43221.8	43706.5	43938.3	44114.0	44099.9	44061.3	43962.9	43724.1
42227.7	7.5°	42747.6	43337.7	44005.1	44314.2	44524.9	44507.4	44595.2	44437.1	44145.6
41851.9	10°	42385.8	42898.6	43720.5	43973.4	44314.2	44321.2	44212.3	44243.9	43724.1
40478.5	12.5°	41247.7	41648.1	42368.2	42656.2	43070.7	43137.5	43018.0	42972.4	42480.6
38226.9	15°	39045.4	39277.2	40000.8	40288.8	40699.8	40643.6	40763.0	40713.8	40281.8
35185.1	17.5°	35824.4	35898.1	36656.8	36899.2	37285.6	37436.6	37257.5	37485.8	37113.5
30987.6	20°	31205.4	31602.3	32455.8	32828.2	33053.0	33323.4	33088.1	33344.5	32909.0
25894.4	22.5°	26519.7	26755.0	27527.8	28065.2	28483.2	28535.8	28448.0	28627.2	28040.6
21405.4	25°	21401.9	21791.8	22403.0	23105.5	23516.4	23769.3	23541.0	23656.9	23562.1
16600.2	27.5°	16881.3	17229.0	17689.1	18212.5	18830.7	19160.9	18978.2	19174.9	18711.3
12378.2	30°	12388.7	12564.3	13084.2	13639.2	14317.1	14717.5	14735.1	14935.3	14661.3
8672.5	32.5°	8735.7	8890.2	9209.9	9578.7	10225.0	10671.1	10600.8	10628.9	10460.3
5651.7	35°	5679.8	5887.0	6115.3	6291.0	6680.8	7172.6	7134.0	7098.8	6982.9
3716.3	37.5°	3797.1	3877.8	4004.3	4162.4	4415.3	4724.4	4826.2	4699.8	4650.6
2508.0	40°	2567.7	2708.2	2792.5	2911.9	3031.3	3291.2	3361.5	3336.9	3287.7
1756.3	42.5°	1823.0	1931.9	2037.3	2153.2	2216.4	2378.0	2515.0	2476.3	2455.3
1334.8	45°	1383.9	1482.3	1605.2	1693.0	1756.3	1851.1	1981.1	1995.1	1963.5
1071.3	47.5°	1110.0	1197.8	1296.1	1405.0	1478.8	1538.5	1650.9	1693.0	1672.0
902.7	50°	941.4	1008.1	1102.9	1211.8	1292.6	1345.3	1443.7	1489.3	1475.3
755.2	52.5°	800.9	881.6	969.5	1060.8	1159.1	1211.8	1303.2	1369.9	1359.4
625.2	55°	663.9	769.2	860.6	951.9	1064.3	1117.0	1197.8	1285.6	1268.0
530.4	57.5°	579.6	667.4	762.2	850.0	969.5	1039.7	1113.5	1204.8	1201.3
435.6	60°	484.7	572.5	677.9	751.7	878.1	976.5	1043.2	1138.1	1145.1
330.2	62.5°	386.4	495.3	576.1	677.9	793.8	909.7	973.0	1067.8	1102.9
252.9	65°	288.0	407.5	498.8	600.6	709.5	839.5	895.7	990.5	1025.7
182.7	67.5°	214.3	305.6	421.5	509.3	632.3	744.7	811.4	899.2	923.8
108.9	70°	161.6	235.3	351.3	428.5	555.0	646.3	713.0	779.8	811.4
73.8	72.5°	94.8	175.6	277.5	368.8	477.7	555.0	604.2	656.8	677.9
35.1	75°	66.7	133.5	217.8	305.6	386.4	449.6	495.3	540.9	562.0
17.6	77.5°	35.1	98.4	172.1	245.9	302.1	354.8	400.4	435.6	449.6
14.1	80°	21.1	70.3	140.5	193.2	231.8	277.5	323.2	347.7	344.2
10.5	82.5°	14.1	56.2	101.9	140.5	168.6	203.7	235.3	252.9	252.9
7.0	85°	10.5	38.6	70.3	108.9	112.4	140.5	147.5	165.1	168.6
7.0	87.5°	7.0	24.6	38.6	63.2	59.7	73.8	77.3	87.8	94.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
42435.0
42610.6
43801.3
44212.3
43573.0
42368.2
40418.8
37022.1
32873.8
27959.8
23502.4
18830.7
14710.5
10555.2
6881.1
4640.1
3294.8
2437.7
1960.0
1661.4
1471.8
1352.3
1268.0
1197.8
1145.1
1099.4
1022.1
923.8
804.4
670.9
555.0
446.1
340.7
249.4
165.1
91.3
0.0

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