

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: P637657

Luminaire Tested: **IFLD-L-SA7B-740-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637657
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-740-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33451.9 lumens
Efficiency: N/A
Efficacy: 119.0 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



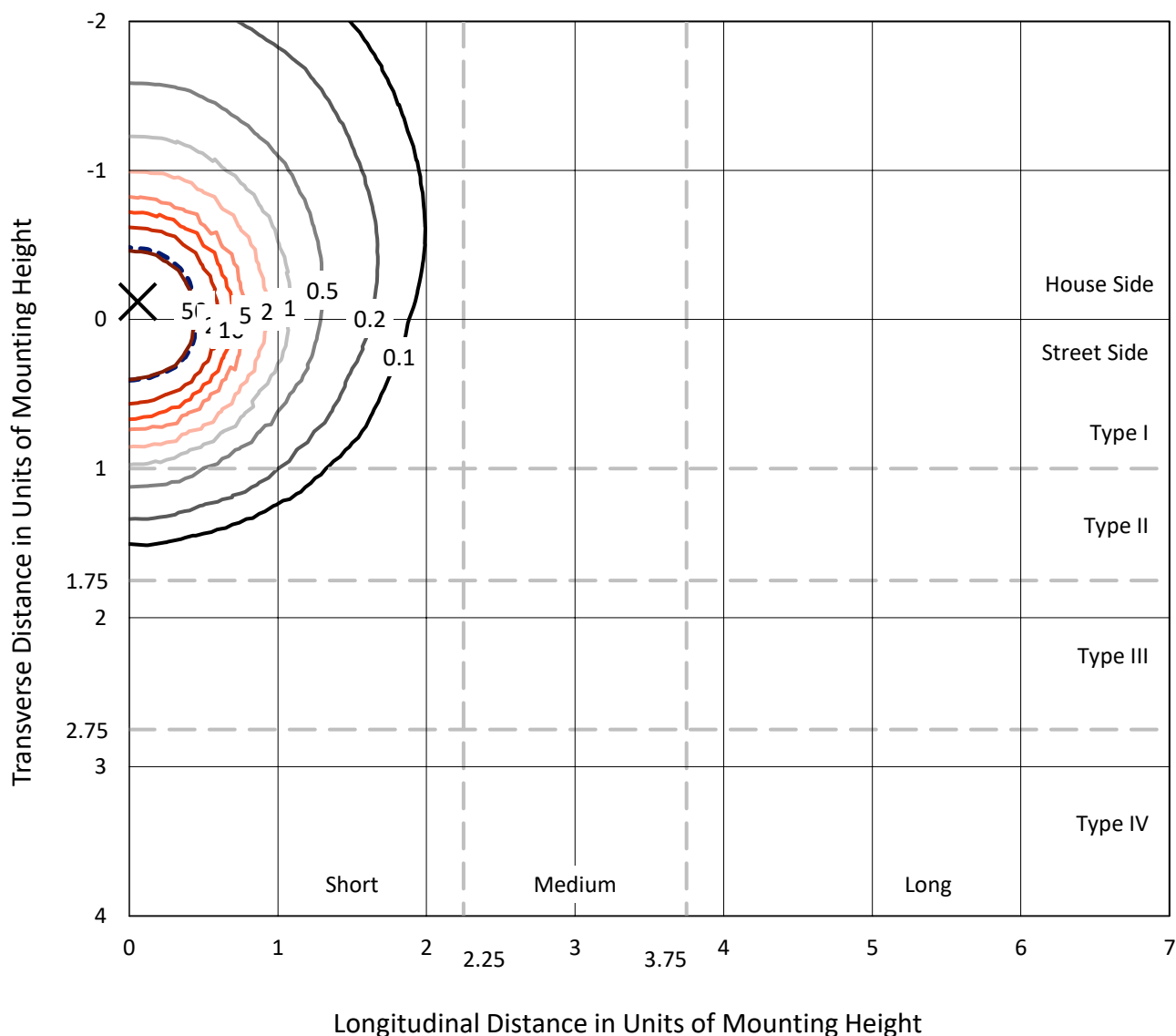
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



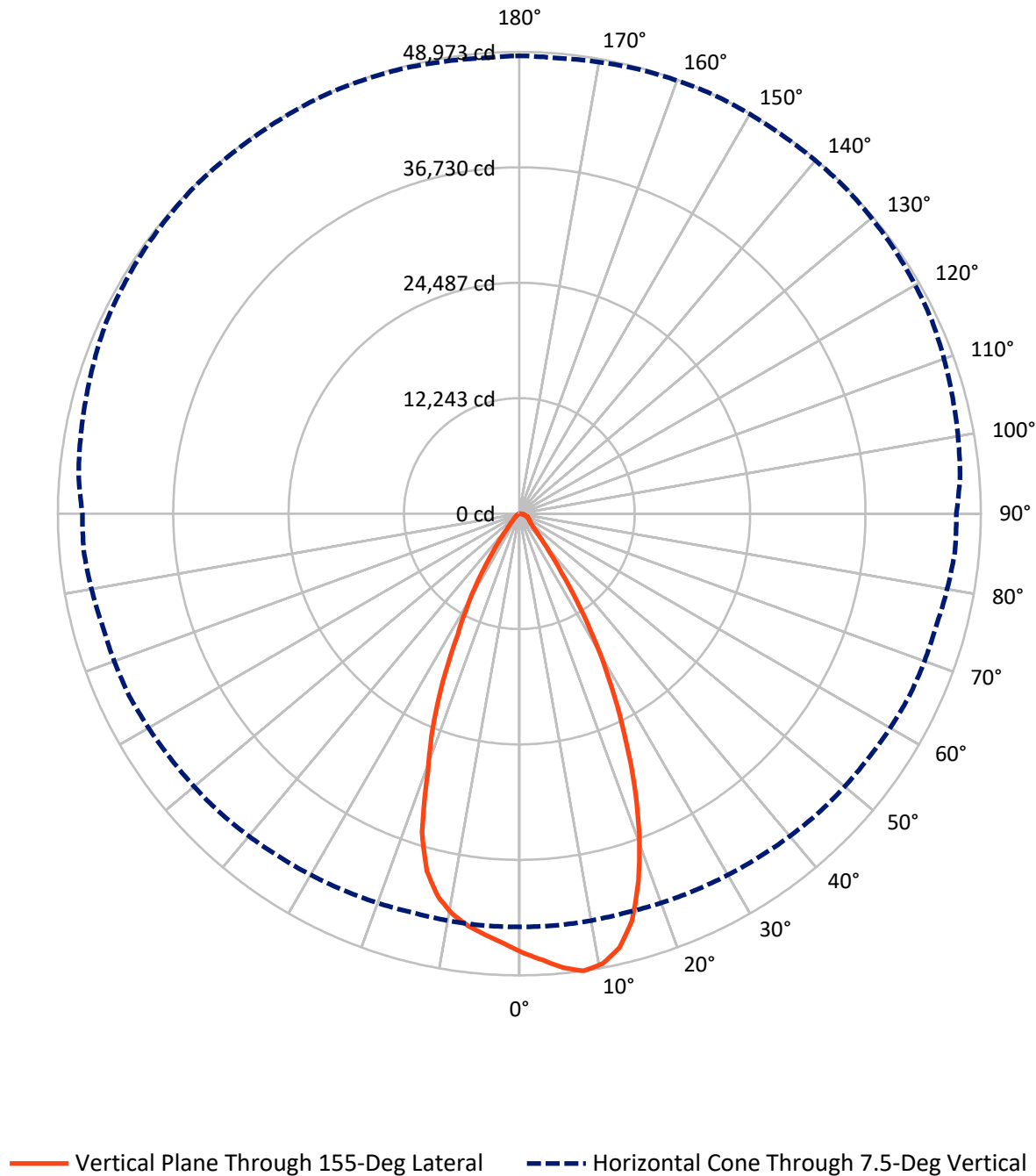
Based on 20 foot mounting height. Maximum calculated value = 118.4 fc

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	18466.7	0.0	18466.7
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	14985.2	0.0	14985.2
	% Fixture	44.8	0.0	44.8
Total	Lumens	33451.9	0.0	33451.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4443.7	13.3
10°-20°	11522.6	34.4
20°-30°	10557.9	31.6
30°-40°	4265.4	12.8
40°-50°	1251.3	3.7
50°-60°	699.6	2.1
60°-70°	424.9	1.3
70°-80°	215.9	0.6
80°-90°	70.6	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°	33451.9	100.0
0°-180°	33451.9	100.0

Coefficient of Utilization



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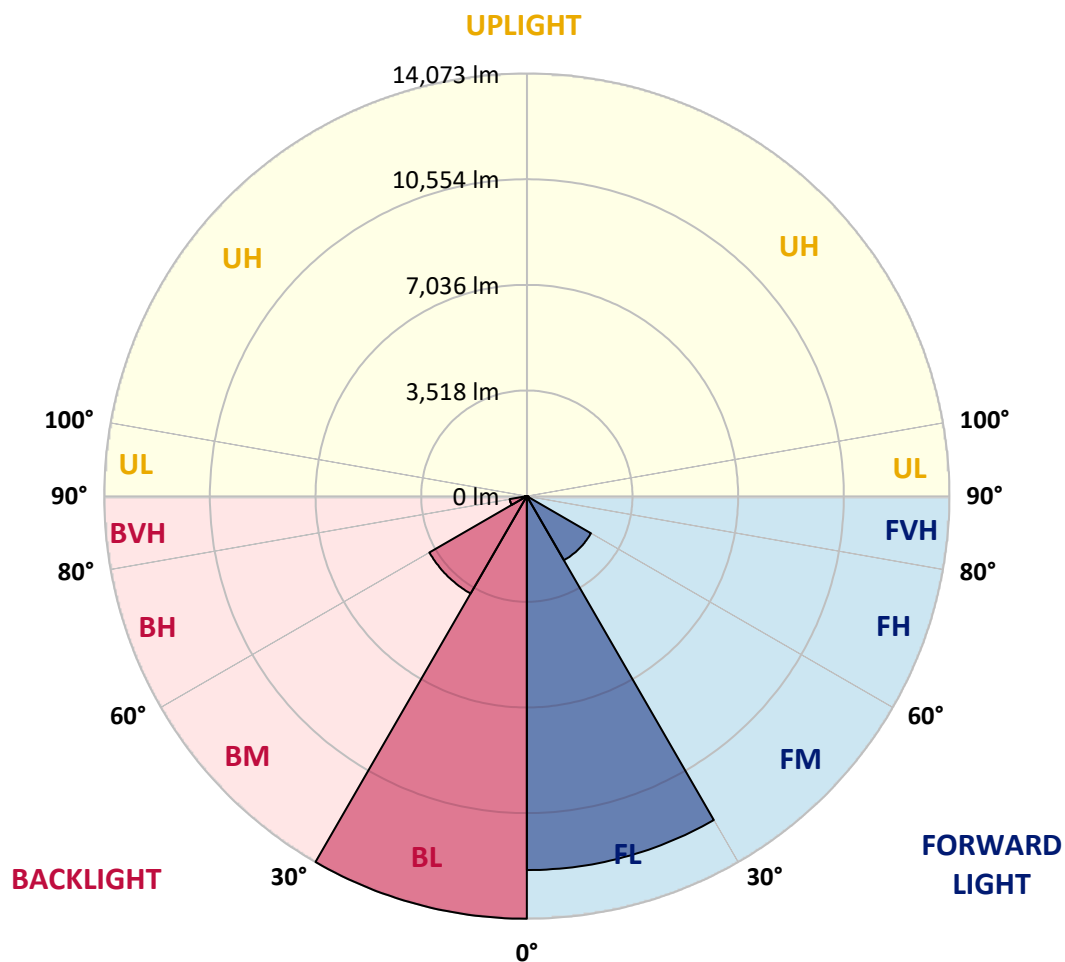
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	12451.6	37.2			
FM	(30°-60°)	2467.7	7.4			
FH	(60°-80°)	59.8	0.2			G0/660
FVH	(80°-90°)	6.1	0.0			G0/10
BL	(0°-30°)	14072.6	42.1	B5		
BM	(30°-60°)	3748.6	11.2	B3/5000		
BH	(60°-80°)	581.1	1.7	B2/1000		G2/1000
BVH	(80°-90°)	64.5	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°	46601.1	46601.1	46601.1	46601.1	46601.1	46601.1	46601.1	46601.1	46601.1	46601.1
2.5°	45590.5	45744.8	45436.2	45640.6	45798.8	46176.8	46207.6	46338.8	46385.1	46728.4
5°	44726.4	44846.0	44595.3	44869.1	45092.9	45428.5	45686.9	46049.5	46250.1	46655.1
7.5°	43827.6	43854.6	43804.5	44093.8	44429.4	44892.3	45212.4	45686.9	45810.3	46388.9
10°	42739.9	42543.1	42639.6	43063.9	43565.3	44275.1	44495.0	44969.4	45189.3	45779.5
12.5°	41004.0	41104.3	40984.7	41524.8	41941.4	42747.6	42979.0	43457.3	43877.8	44398.5
15°	38558.4	38500.6	38743.6	39164.1	39615.4	40255.7	40629.9	41150.6	41470.8	42010.8
17.5°	33061.7	33258.4	34261.3	35314.4	36240.2	36988.5	37435.9	37868.0	38099.4	38685.7
20°	28552.4	28305.5	28440.5	29034.6	31669.1	32814.8	33285.4	33389.5	33486.0	33948.9
22.5°	23510.8	23429.8	23881.1	24548.4	25173.3	27815.6	28455.9	28212.9	28413.5	28849.4
25°	17458.5	17867.4	18268.6	19549.2	20359.3	21655.4	22870.4	22978.5	23051.7	23325.6
27.5°	14210.6	14067.9	14060.2	14418.9	15614.7	16694.8	17728.6	17967.7	17925.3	18187.6
30°	11171.0	11124.7	10962.7	11047.6	10928.0	11888.5	12374.5	13358.1	13304.1	13311.8
32.5°	8058.1	7884.5	7818.9	7946.2	7822.8	7734.1	8158.4	9269.3	9250.0	9327.2
35°	4875.7	4852.6	4906.6	5018.5	4771.6	4763.9	4852.6	5897.9	6025.2	6148.7
37.5°	2692.5	2669.3	2711.7	3124.5	3043.5	2970.2	2993.3	3544.9	3911.4	4004.0
40°	1774.4	1770.5	1801.4	1874.7	2013.6	1986.6	1998.1	2245.0	2592.2	2673.2
42.5°	1188.1	1191.9	1211.2	1296.1	1315.4	1454.2	1431.1	1489.0	1813.0	1882.4
45°	948.9	945.1	956.6	918.1	941.2	1083.9	1099.4	1103.2	1380.9	1423.4
47.5°	748.3	748.3	759.9	709.8	698.2	786.9	867.9	879.5	1103.2	1161.1
50°	524.6	524.6	582.5	559.3	586.3	613.3	702.0	713.6	902.6	964.3
52.5°	385.7	393.5	401.2	405.0	493.7	489.9	567.0	621.0	682.8	790.8
55°	293.2	300.9	281.6	300.9	366.5	408.9	424.3	501.5	543.9	663.5
57.5°	192.9	212.2	196.7	231.4	246.9	316.3	339.5	412.7	439.7	543.9
60°	27.0	30.9	50.1	162.0	173.6	208.3	262.3	327.9	354.9	443.6
62.5°	3.9	3.9	11.6	27.0	115.7	138.9	196.7	227.6	262.3	331.7
65°	0.0	0.0	3.9	7.7	23.1	81.0	100.3	123.4	181.3	239.2
67.5°	0.0	0.0	3.9	7.7	11.6	27.0	42.4	81.0	104.1	165.9
70°	0.0	0.0	3.9	7.7	11.6	15.4	23.1	30.9	61.7	96.4
72.5°	0.0	0.0	3.9	7.7	11.6	15.4	19.3	23.1	27.0	61.7
75°	0.0	0.0	3.9	7.7	11.6	19.3	23.1	23.1	23.1	27.0
77.5°	0.0	0.0	3.9	7.7	15.4	23.1	27.0	23.1	19.3	19.3
80°	0.0	0.0	3.9	11.6	19.3	27.0	30.9	23.1	15.4	11.6
82.5°	0.0	0.0	3.9	11.6	19.3	27.0	30.9	27.0	15.4	11.6
85°	0.0	0.0	3.9	11.6	15.4	19.3	30.9	27.0	15.4	7.7
87.5°	0.0	0.0	0.0	3.9	3.9	7.7	15.4	11.6	7.7	3.9
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°
46601.1	0°	46601.1	46601.1	46601.1	46601.1	46601.1	46601.1	46601.1	46601.1	46601.1
46720.7	2.5°	47067.8	47241.4	47546.2	47631.0	47893.3	47592.4	47426.6	47442.0	47083.3
46605.0	5°	47067.8	47465.2	47997.5	48252.1	48444.9	48429.5	48387.1	48279.1	48016.8
46373.5	7.5°	46944.4	47592.4	48325.3	48664.8	48896.2	48877.0	48973.4	48799.8	48479.6
45960.8	10°	46547.1	47110.3	48012.9	48290.6	48664.8	48672.5	48552.9	48587.7	48016.8
44452.5	12.5°	45297.3	45737.0	46527.8	46844.1	47299.3	47372.6	47241.4	47191.3	46651.2
41979.9	15°	42878.7	43133.3	43927.9	44244.2	44695.5	44633.8	44765.0	44711.0	44236.5
38639.4	17.5°	39341.5	39422.5	40255.7	40521.9	40946.2	41112.0	40915.3	41166.0	40757.2
34029.9	20°	34269.0	34704.9	35642.3	36051.1	36298.0	36595.0	36336.6	36618.2	36139.9
28436.7	22.5°	29123.3	29381.7	30230.3	30820.5	31279.6	31337.4	31241.0	31437.7	30793.5
23506.9	25°	23503.1	23931.2	24602.4	25373.9	25825.2	26102.9	25852.2	25979.5	25875.4
18230.0	27.5°	18538.6	18920.5	19425.8	20000.6	20679.5	21042.0	20841.5	21057.5	20548.3
13593.4	30°	13605.0	13797.9	14368.8	14978.2	15722.7	16162.5	16181.7	16401.6	16100.7
9523.9	32.5°	9593.3	9763.0	10114.1	10519.1	11228.9	11718.7	11641.6	11672.5	11487.3
6206.5	35°	6237.4	6465.0	6715.7	6908.6	7336.8	7876.8	7834.4	7795.8	7668.5
4081.1	37.5°	4169.8	4258.6	4397.4	4571.0	4848.7	5188.2	5300.1	5161.2	5107.2
2754.2	40°	2819.8	2974.0	3066.6	3197.8	3328.9	3614.4	3691.5	3664.5	3610.5
1928.7	42.5°	2002.0	2121.6	2237.3	2364.6	2434.0	2611.5	2761.9	2719.5	2696.3
1465.8	45°	1519.8	1627.8	1762.8	1859.3	1928.7	2032.8	2175.6	2191.0	2156.3
1176.5	47.5°	1218.9	1315.4	1423.4	1543.0	1624.0	1689.5	1813.0	1859.3	1836.1
991.3	50°	1033.8	1107.1	1211.2	1330.8	1419.5	1477.4	1585.4	1635.5	1620.1
829.3	52.5°	879.5	968.2	1064.6	1164.9	1272.9	1330.8	1431.1	1504.4	1492.8
686.6	55°	729.0	844.8	945.1	1045.4	1168.8	1226.6	1315.4	1411.8	1392.5
582.5	57.5°	636.5	732.9	837.1	933.5	1064.6	1141.8	1222.8	1323.1	1319.2
478.3	60°	532.3	628.8	744.5	825.5	964.3	1072.4	1145.6	1249.8	1257.5
362.6	62.5°	424.3	543.9	632.6	744.5	871.8	999.1	1068.5	1172.6	1211.2
277.7	65°	316.3	447.5	547.7	659.6	779.2	921.9	983.6	1087.8	1126.4
200.6	67.5°	235.3	335.6	462.9	559.3	694.3	817.8	891.1	987.5	1014.5
119.6	70°	177.4	258.4	385.7	470.6	609.5	709.8	783.0	856.3	891.1
81.0	72.5°	104.1	192.9	304.7	405.0	524.6	609.5	663.5	721.3	744.5
38.6	75°	73.3	146.6	239.2	335.6	424.3	493.7	543.9	594.0	617.2
19.3	77.5°	38.6	108.0	189.0	270.0	331.7	389.6	439.7	478.3	493.7
15.4	80°	23.1	77.1	154.3	212.2	254.6	304.7	354.9	381.9	378.0
11.6	82.5°	15.4	61.7	111.9	154.3	185.2	223.7	258.4	277.7	277.7
7.7	85°	11.6	42.4	77.1	119.6	123.4	154.3	162.0	181.3	185.2
7.7	87.5°	7.7	27.0	42.4	69.4	65.6	81.0	84.9	96.4	104.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
46601.1
46794.0
48101.6
48552.9
47850.9
46527.8
44387.0
40656.9
36101.3
30704.8
25809.8
20679.5
16154.7
11591.4
7556.6
5095.6
3618.2
2677.0
2152.4
1824.5
1616.2
1485.1
1392.5
1315.4
1257.5
1207.4
1122.5
1014.5
883.3
736.8
609.5
489.9
374.2
273.9
181.3
100.3
0.0

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