

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: P637633

Luminaire Tested: **IFLD-L-SA8B-735-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637633
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-735-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37706.2 lumens
Efficiency: N/A
Efficacy: 117.8 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): 320
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



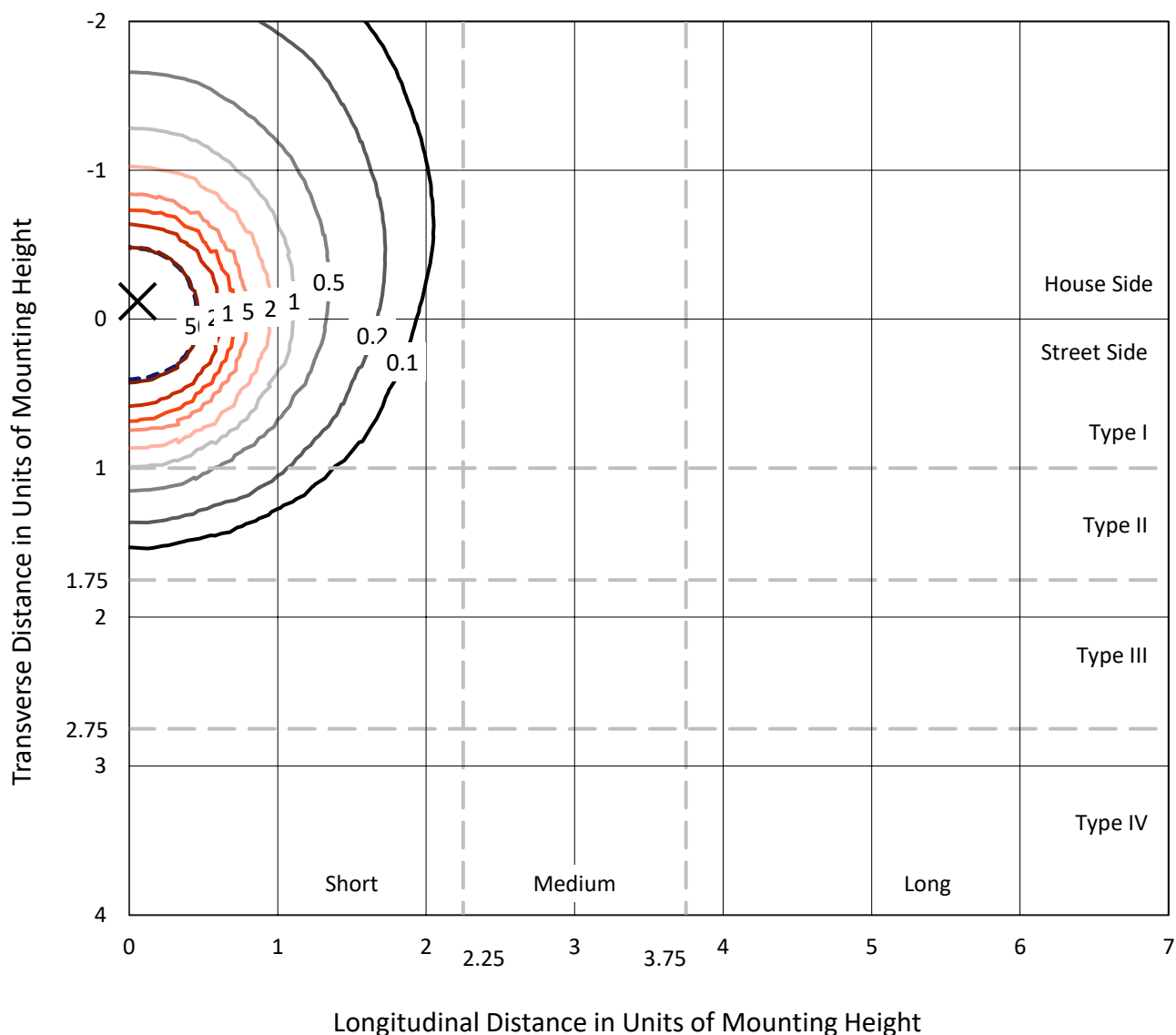
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



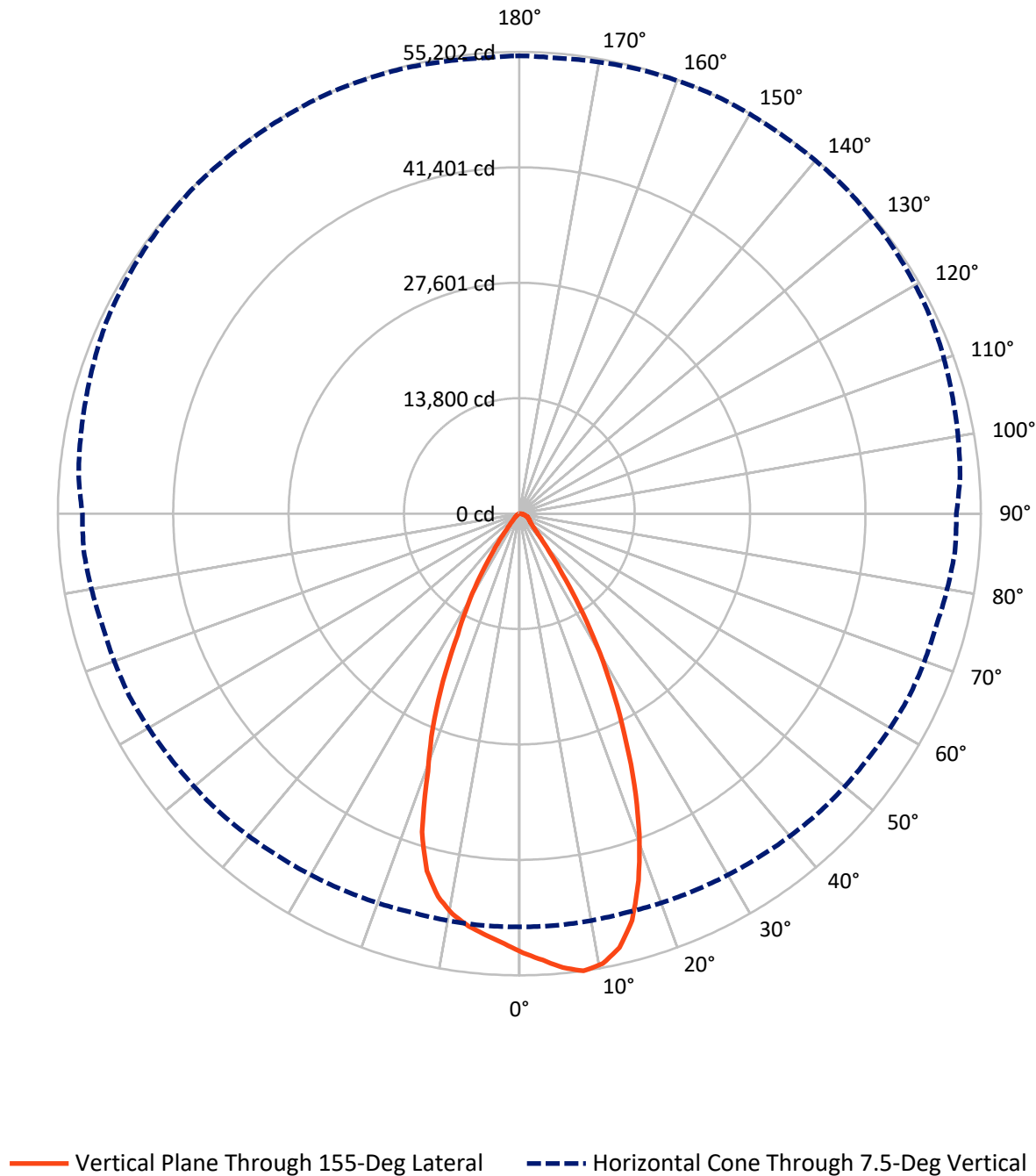
Based on 20 foot mounting height. Maximum calculated value = 133.5 fc

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	20815.2	0.0	20815.2
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	16891.0	0.0	16891.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	37706.2	0.0	37706.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5008.9	13.3
10°-20°	12988.0	34.4
20°-30°	11900.6	31.6
30°-40°	4807.8	12.8
40°-50°	1410.4	3.7
50°-60°	788.6	2.1
60°-70°	479.0	1.3
70°-80°	243.3	0.6
80°-90°	79.6	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°	37706.2	100.0
0°-180°	37706.2	100.0

Coefficient of Utilization



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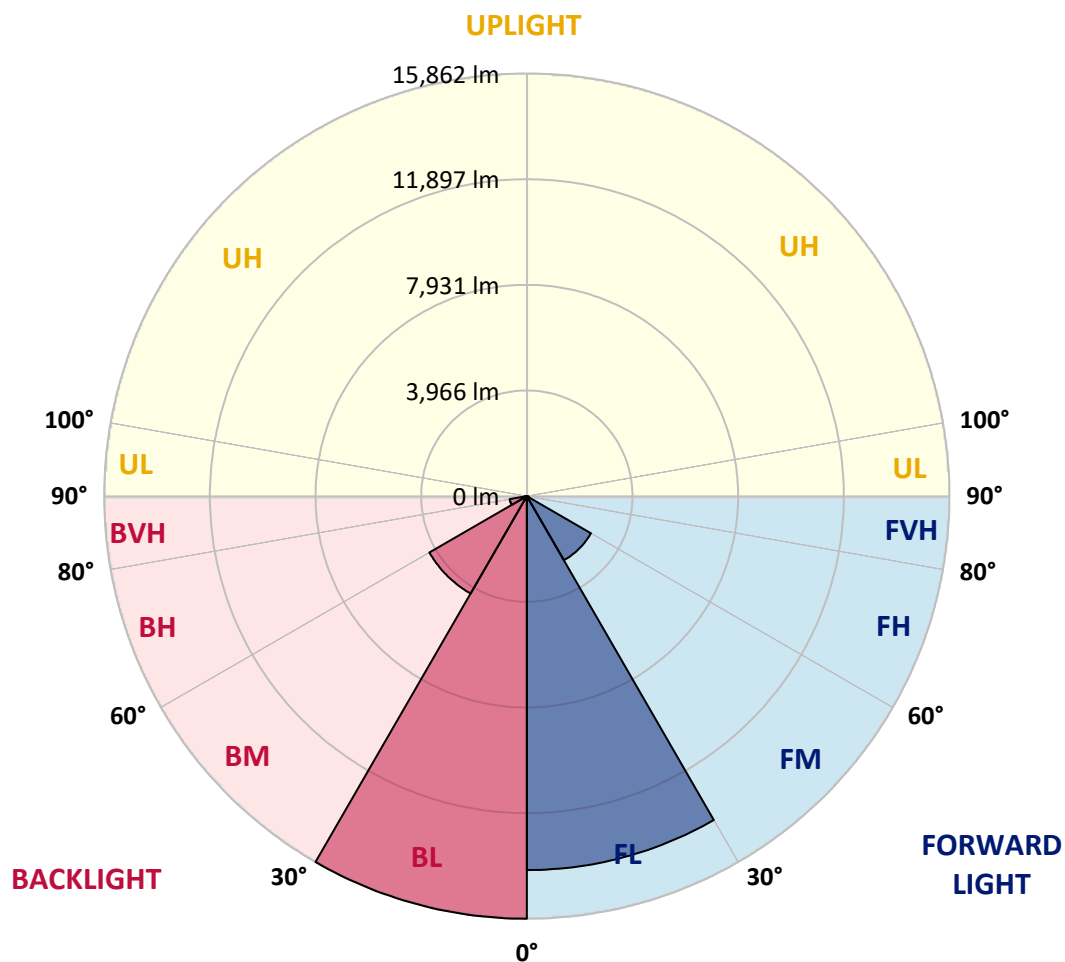
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	14035.2	37.2			
FM	(30°-60°)	2781.5	7.4			
FH	(60°-80°)	67.4	0.2			G0/660
FVH	(80°-90°)	6.9	0.0			G0/10
BL	(0°-30°)	15862.3	42.1	B5		
BM	(30°-60°)	4225.3	11.2	B3/5000		
BH	(60°-80°)	655.0	1.7	B2/1000		G2/1000
BVH	(80°-90°)	72.7	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°	52527.7	52527.7	52527.7	52527.7	52527.7	52527.7	52527.7	52527.7	52527.7	52527.7
2.5°	51388.5	51562.4	51214.6	51445.0	51623.3	52049.4	52084.2	52232.0	52284.2	52671.2
5°	50414.6	50549.4	50266.7	50575.4	50827.6	51205.9	51497.2	51905.9	52132.0	52588.5
7.5°	49401.5	49431.9	49375.4	49701.5	50079.8	50601.5	50962.4	51497.2	51636.3	52288.5
10°	48175.4	47953.6	48062.3	48540.6	49105.8	49905.9	50153.7	50688.5	50936.3	51601.6
12.5°	46218.8	46331.8	46197.0	46805.8	47275.3	48184.1	48444.9	48984.1	49458.0	50045.0
15°	43462.2	43397.0	43670.9	44144.8	44653.5	45375.3	45797.0	46384.0	46744.9	47353.6
17.5°	37266.3	37488.1	38618.6	39805.6	40849.1	41692.6	42196.9	42683.9	42944.8	43605.7
20°	32183.6	31905.3	32057.5	32727.1	35696.7	36988.1	37518.5	37635.9	37744.6	38266.4
22.5°	26500.8	26409.5	26918.2	27670.4	28374.8	31353.1	32074.9	31801.0	32027.1	32518.4
25°	19678.9	20139.7	20591.9	22035.4	22948.5	24409.4	25779.0	25900.8	25983.4	26292.1
27.5°	16017.9	15857.0	15848.3	16252.7	17600.5	18818.0	19983.2	20252.8	20205.0	20500.6
30°	12591.7	12539.5	12356.9	12452.6	12317.8	13400.4	13948.2	15057.0	14996.1	15004.8
32.5°	9082.9	8887.2	8813.3	8956.8	8817.7	8717.7	9195.9	10448.1	10426.4	10513.4
35°	5495.8	5469.7	5530.6	5656.7	5378.4	5369.7	5469.7	6648.0	6791.5	6930.6
37.5°	3034.9	3008.8	3056.6	3521.8	3430.5	3347.9	3374.0	3995.8	4408.8	4513.2
40°	2000.1	1995.7	2030.5	2113.1	2269.6	2239.2	2252.2	2530.5	2921.8	3013.1
42.5°	1339.2	1343.5	1365.3	1460.9	1482.7	1639.2	1613.1	1678.3	2043.5	2121.8
45°	1069.6	1065.2	1078.3	1034.8	1060.9	1221.8	1239.2	1243.5	1556.6	1604.4
47.5°	843.5	843.5	856.5	800.0	787.0	887.0	978.3	991.3	1243.5	1308.7
50°	591.3	591.3	656.5	630.5	660.9	691.3	791.3	804.4	1017.4	1087.0
52.5°	434.8	443.5	452.2	456.5	556.5	552.2	639.1	700.0	769.6	891.3
55°	330.4	339.1	317.4	339.1	413.1	460.9	478.3	565.2	613.1	747.8
57.5°	217.4	239.1	221.7	260.9	278.3	356.5	382.6	465.2	495.7	613.1
60°	30.4	34.8	56.5	182.6	195.7	234.8	295.7	369.6	400.0	500.0
62.5°	4.3	4.3	13.0	30.4	130.4	156.5	221.7	256.5	295.7	373.9
65°	0.0	0.0	4.3	8.7	26.1	91.3	113.0	139.1	204.4	269.6
67.5°	0.0	0.0	4.3	8.7	13.0	30.4	47.8	91.3	117.4	187.0
70°	0.0	0.0	4.3	8.7	13.0	17.4	26.1	34.8	69.6	108.7
72.5°	0.0	0.0	4.3	8.7	13.0	17.4	21.7	26.1	30.4	69.6
75°	0.0	0.0	4.3	8.7	13.0	21.7	26.1	26.1	26.1	30.4
77.5°	0.0	0.0	4.3	8.7	17.4	26.1	30.4	26.1	21.7	21.7
80°	0.0	0.0	4.3	13.0	21.7	30.4	34.8	26.1	17.4	13.0
82.5°	0.0	0.0	4.3	13.0	21.7	30.4	34.8	30.4	17.4	13.0
85°	0.0	0.0	4.3	13.0	17.4	21.7	34.8	30.4	17.4	8.7
87.5°	0.0	0.0	0.0	4.3	4.3	8.7	17.4	13.0	8.7	4.3
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°
52527.7	0°	52527.7	52527.7	52527.7	52527.7	52527.7	52527.7	52527.7	52527.7	52527.7
52662.5	2.5°	53053.8	53249.4	53592.9	53688.6	53984.2	53645.1	53458.1	53475.5	53071.2
52532.0	5°	53053.8	53501.6	54101.6	54388.6	54606.0	54588.6	54540.8	54419.0	54123.4
52271.1	7.5°	52914.6	53645.1	54471.2	54853.8	55114.7	55093.0	55201.7	55006.0	54645.1
51805.9	10°	52466.8	53101.6	54119.0	54432.1	54853.8	54862.5	54727.7	54766.9	54123.4
50105.9	12.5°	51058.1	51553.7	52445.1	52801.6	53314.7	53397.3	53249.4	53192.9	52584.2
47318.8	15°	48331.9	48618.9	49514.5	49871.1	50379.8	50310.2	50458.0	50397.2	49862.4
43553.5	17.5°	44344.8	44436.1	45375.3	45675.3	46153.6	46340.5	46118.8	46401.4	45940.5
38357.7	20°	38627.3	39118.6	40175.1	40636.0	40914.3	41249.1	40957.8	41275.2	40736.0
32053.1	22.5°	32827.1	33118.4	34074.9	34740.2	35257.6	35322.8	35214.1	35435.9	34709.7
26496.5	25°	26492.1	26974.7	27731.3	28600.9	29109.6	29422.6	29140.0	29283.5	29166.1
20548.4	27.5°	20896.3	21326.7	21896.3	22544.2	23309.4	23718.1	23492.0	23735.5	23161.6
15322.2	30°	15335.2	15552.6	16196.1	16883.1	17722.3	18217.9	18239.7	18487.5	18148.4
10735.1	32.5°	10813.4	11004.7	11400.3	11856.9	12656.9	13209.1	13122.1	13156.9	12948.2
6995.9	35°	7030.6	7287.2	7569.8	7787.2	8269.8	8878.5	8830.7	8787.2	8643.7
4600.1	37.5°	4700.1	4800.1	4956.7	5152.3	5465.4	5848.0	5974.1	5817.6	5756.7
3104.4	40°	3178.4	3352.3	3456.6	3604.5	3752.3	4074.0	4161.0	4130.6	4069.7
2174.0	42.5°	2256.6	2391.4	2521.8	2665.3	2743.6	2943.6	3113.1	3065.3	3039.2
1652.2	45°	1713.1	1834.8	1987.0	2095.7	2174.0	2291.4	2452.2	2469.6	2430.5
1326.1	47.5°	1374.0	1482.7	1604.4	1739.2	1830.5	1904.4	2043.5	2095.7	2069.6
1117.4	50°	1165.3	1247.9	1365.3	1500.0	1600.0	1665.3	1787.0	1843.5	1826.1
934.8	52.5°	991.3	1091.3	1200.0	1313.1	1434.8	1500.0	1613.1	1695.7	1682.7
773.9	55°	821.8	952.2	1065.2	1178.3	1317.4	1382.7	1482.7	1591.4	1569.6
656.5	57.5°	717.4	826.1	943.5	1052.2	1200.0	1287.0	1378.3	1491.3	1487.0
539.1	60°	600.0	708.7	839.2	930.5	1087.0	1208.7	1291.3	1408.7	1417.4
408.7	62.5°	478.3	613.1	713.1	839.2	982.6	1126.1	1204.4	1321.8	1365.3
313.1	65°	356.5	504.4	617.4	743.5	878.3	1039.2	1108.7	1226.1	1269.6
226.1	67.5°	265.2	378.3	521.8	630.5	782.6	921.8	1004.4	1113.1	1143.5
134.8	70°	200.0	291.3	434.8	530.5	687.0	800.0	882.6	965.2	1004.4
91.3	72.5°	117.4	217.4	343.5	456.5	591.3	687.0	747.8	813.1	839.2
43.5	75°	82.6	165.2	269.6	378.3	478.3	556.5	613.1	669.6	695.7
21.7	77.5°	43.5	121.7	213.0	304.4	373.9	439.1	495.7	539.1	556.5
17.4	80°	26.1	87.0	173.9	239.1	287.0	343.5	400.0	430.4	426.1
13.0	82.5°	17.4	69.6	126.1	173.9	208.7	252.2	291.3	313.1	313.1
8.7	85°	13.0	47.8	87.0	134.8	139.1	173.9	182.6	204.4	208.7
8.7	87.5°	8.7	30.4	47.8	78.3	73.9	91.3	95.7	108.7	117.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
52527.7
52745.1
54219.0
54727.7
53936.4
52445.1
50031.9
45827.5
40692.5
34609.7
29092.2
23309.4
18209.2
13065.6
8517.6
5743.7
4078.4
3017.5
2426.2
2056.6
1821.8
1674.0
1569.6
1482.7
1417.4
1360.9
1265.3
1143.5
995.7
830.5
687.0
552.2
421.8
308.7
204.4
113.0
0.0

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