

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: P637545

Luminaire Tested: **IFLD-L-SA8A-722-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637545
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-722-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5
distribution lens and Visor
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23702.5 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 247.8
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



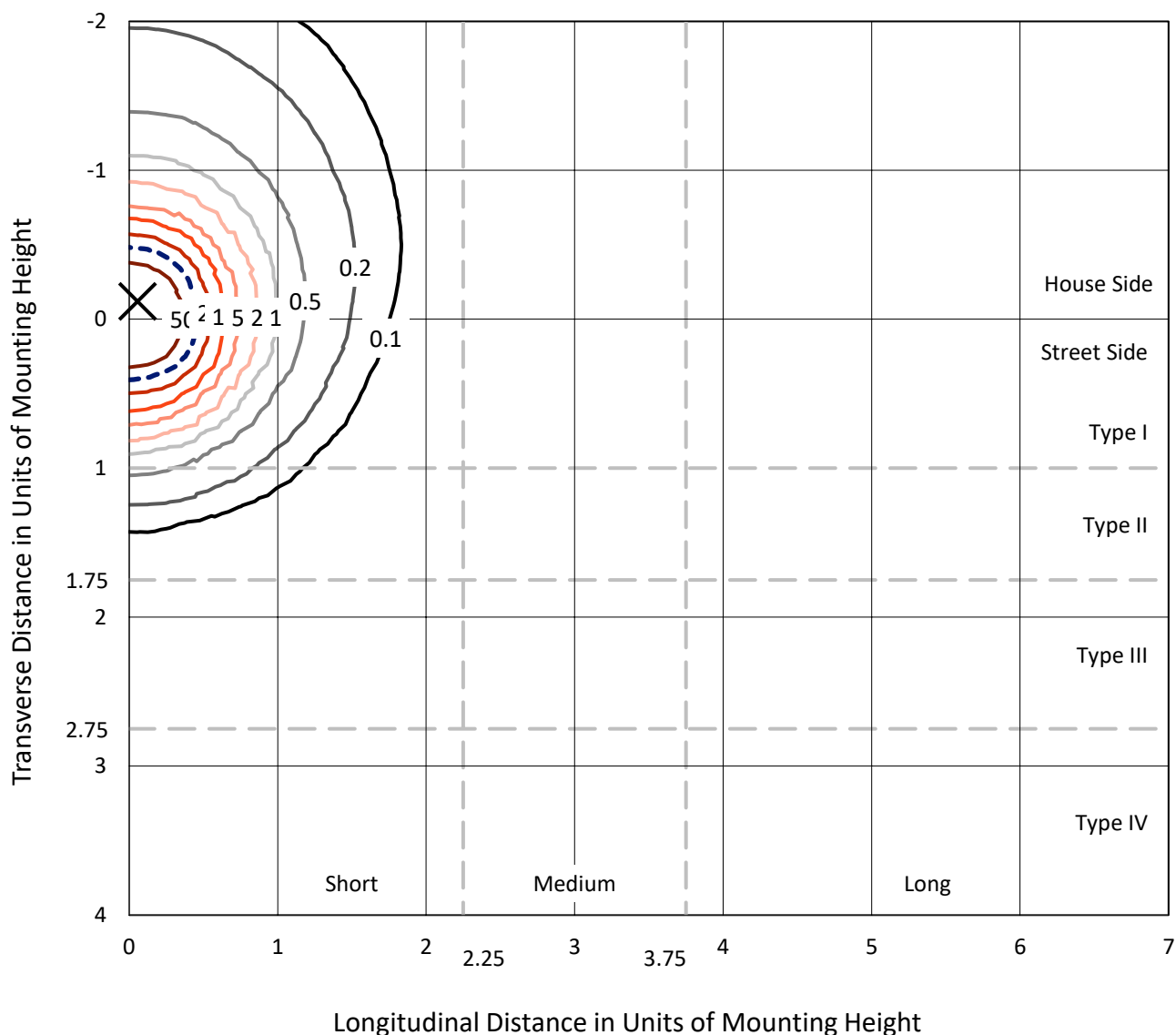
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

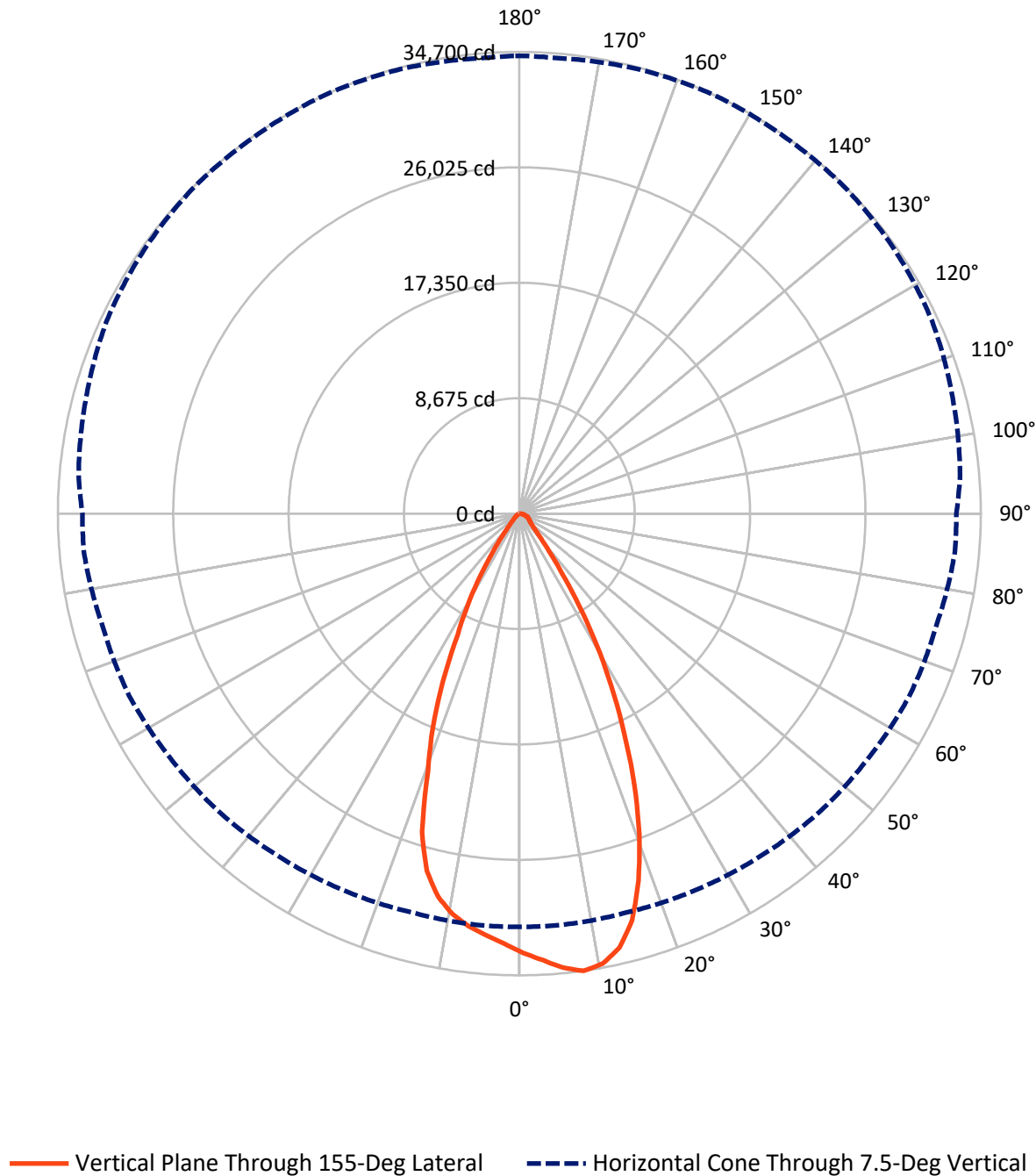


Based on 20 foot mounting height. Maximum calculated value = 83.9 fc

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	13084.7	0.0	13084.7
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	10617.9	0.0	10617.9
	% Fixture	44.8	0.0	44.8
Total	Lumens	23702.5	0.0	23702.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3148.6	13.3
10°-20°	8164.4	34.4
20°-30°	7480.9	31.6
30°-40°	3022.3	12.8
40°-50°	886.6	3.7
50°-60°	495.7	2.1
60°-70°	301.1	1.3
70°-80°	153.0	0.6
80°-90°	50.0	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°	23702.5	100.0
0°-180°	23702.5	100.0

Coefficient of Utilization



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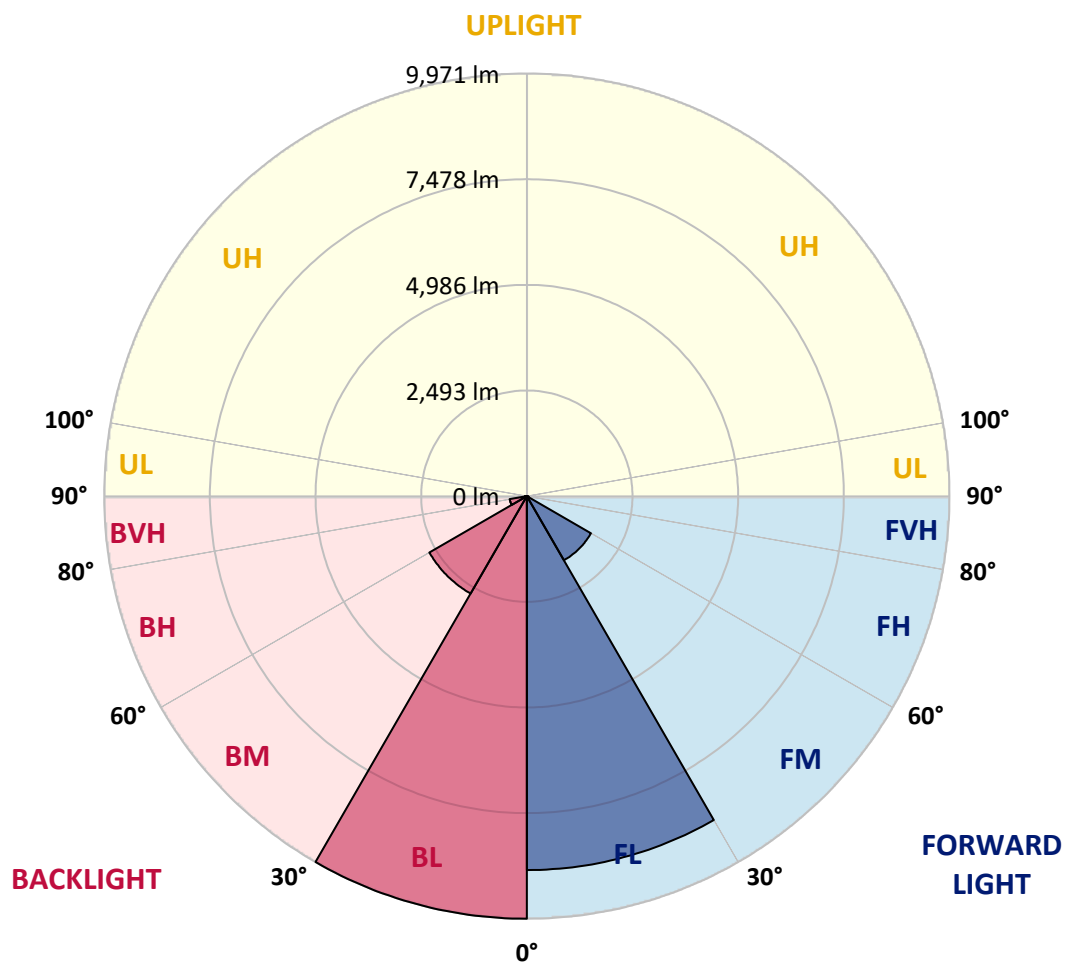
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8822.7	37.2			
FM	(30°-60°)	1748.5	7.4			
FH	(60°-80°)	42.4	0.2			G0/660
FVH	(80°-90°)	4.3	0.0			G0/10
BL	(0°-30°)	9971.2	42.1	B5		
BM	(30°-60°)	2656.1	11.2	B3/5000		
BH	(60°-80°)	411.7	1.7	B1/500		G1/500
BVH	(80°-90°)	45.7	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-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	33019.5	33019.5	33019.5	33019.5	33019.5	33019.5	33019.5	33019.5	33019.5	33019.5
2.5°	32303.4	32412.7	32194.1	32338.9	32451.0	32718.8	32740.7	32833.6	32866.4	33109.7
5°	31691.2	31775.9	31598.2	31792.3	31950.8	32188.6	32371.7	32628.6	32770.8	33057.7
7.5°	31054.3	31073.5	31037.9	31242.9	31480.7	31808.7	32035.5	32371.7	32459.2	32869.2
10°	30283.6	30144.2	30212.5	30513.2	30868.5	31371.4	31527.2	31863.3	32019.1	32437.3
12.5°	29053.6	29124.7	29040.0	29422.6	29717.8	30289.0	30453.0	30791.9	31089.9	31458.8
15°	27320.8	27279.8	27452.0	27749.9	28069.7	28523.4	28788.5	29157.5	29384.4	29767.0
17.5°	23426.0	23565.4	24276.1	25022.2	25678.2	26208.4	26525.5	26831.6	26995.6	27411.0
20°	20231.0	20056.0	20151.7	20572.6	22439.4	23251.1	23584.6	23658.4	23726.7	24054.7
22.5°	16658.7	16601.3	16921.1	17393.9	17836.7	19708.9	20162.6	19990.4	20132.6	20441.4
25°	12370.3	12660.1	12944.3	13851.7	14425.7	15344.0	16205.0	16281.5	16333.4	16527.5
27.5°	10069.0	9967.9	9962.4	10216.6	11063.9	11829.2	12561.7	12731.1	12701.1	12886.9
30°	7915.3	7882.5	7767.7	7827.8	7743.1	8423.6	8768.0	9465.0	9426.7	9432.2
32.5°	5709.6	5586.6	5540.1	5630.3	5542.9	5480.0	5780.7	6567.8	6554.2	6608.8
35°	3454.7	3438.3	3476.6	3555.9	3380.9	3375.5	3438.3	4179.0	4269.2	4356.7
37.5°	1907.8	1891.4	1921.4	2213.9	2156.5	2104.5	2120.9	2511.8	2771.4	2837.0
40°	1257.3	1254.5	1276.4	1328.3	1426.7	1407.6	1415.8	1590.7	1836.7	1894.1
42.5°	841.8	844.6	858.2	918.3	932.0	1030.4	1014.0	1055.0	1284.6	1333.8
45°	672.4	669.6	677.8	650.5	666.9	768.0	779.0	781.7	978.5	1008.5
47.5°	530.2	530.2	538.4	502.9	494.7	557.6	615.0	623.2	781.7	822.7
50°	371.7	371.7	412.7	396.3	415.4	434.6	497.4	505.6	639.6	683.3
52.5°	273.3	278.8	284.3	287.0	349.8	347.1	401.8	440.0	483.8	560.3
55°	207.7	213.2	199.5	213.2	259.7	289.7	300.6	355.3	385.4	470.1
57.5°	136.7	150.3	139.4	164.0	174.9	224.1	240.5	292.4	311.6	385.4
60°	19.1	21.9	35.5	114.8	123.0	147.6	185.9	232.3	251.5	314.3
62.5°	2.7	2.7	8.2	19.1	82.0	98.4	139.4	161.3	185.9	235.1
65°	0.0	0.0	2.7	5.5	16.4	57.4	71.1	87.5	128.5	169.5
67.5°	0.0	0.0	2.7	5.5	8.2	19.1	30.1	57.4	73.8	117.5
70°	0.0	0.0	2.7	5.5	8.2	10.9	16.4	21.9	43.7	68.3
72.5°	0.0	0.0	2.7	5.5	8.2	10.9	13.7	16.4	19.1	43.7
75°	0.0	0.0	2.7	5.5	8.2	13.7	16.4	16.4	16.4	19.1
77.5°	0.0	0.0	2.7	5.5	10.9	16.4	19.1	16.4	13.7	13.7
80°	0.0	0.0	2.7	8.2	13.7	19.1	21.9	16.4	10.9	8.2
82.5°	0.0	0.0	2.7	8.2	13.7	19.1	21.9	19.1	10.9	8.2
85°	0.0	0.0	2.7	8.2	10.9	13.7	21.9	19.1	10.9	5.5
87.5°	0.0	0.0	0.0	2.7	2.7	5.5	10.9	8.2	5.5	2.7
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°
33019.5	0°	33019.5	33019.5	33019.5	33019.5	33019.5	33019.5	33019.5	33019.5	33019.5
33104.2	2.5°	33350.2	33473.2	33689.1	33749.2	33935.1	33721.9	33604.4	33615.3	33361.1
33022.2	5°	33350.2	33631.7	34008.9	34189.3	34325.9	34315.0	34284.9	34208.4	34022.6
32858.2	7.5°	33262.7	33721.9	34241.2	34481.7	34645.7	34632.0	34700.4	34577.4	34350.5
32565.8	10°	32981.2	33380.3	34019.8	34216.6	34481.7	34487.2	34402.5	34427.1	34022.6
31497.1	12.5°	32095.7	32407.2	32967.5	33191.7	33514.2	33566.1	33473.2	33437.7	33055.0
29745.1	15°	30382.0	30562.4	31125.4	31349.5	31669.3	31625.6	31718.5	31680.2	31344.0
27378.2	17.5°	27875.6	27933.0	28523.4	28712.0	29012.6	29130.2	28990.8	29168.4	28878.7
24112.1	20°	24281.5	24590.4	25254.5	25544.2	25719.2	25929.6	25746.5	25946.0	25607.1
20149.0	22.5°	20635.5	20818.6	21419.9	21838.1	22163.3	22204.3	22136.0	22275.4	21818.9
16656.0	25°	16653.2	16956.6	17432.2	17978.8	18298.6	18495.4	18317.7	18407.9	18334.1
12917.0	27.5°	13135.6	13406.2	13764.3	14171.5	14652.5	14909.5	14767.3	14920.4	14559.6
9631.7	30°	9639.9	9776.6	10181.1	10612.9	11140.4	11452.0	11465.7	11621.5	11408.3
6748.2	32.5°	6797.4	6917.7	7166.4	7453.4	7956.3	8303.4	8248.7	8270.6	8139.4
4397.7	35°	4419.5	4580.8	4758.5	4895.1	5198.5	5581.1	5551.1	5523.7	5433.6
2891.7	37.5°	2954.6	3017.4	3115.8	3238.8	3435.6	3676.1	3755.4	3657.0	3618.7
1951.5	40°	1998.0	2107.3	2172.9	2265.8	2358.7	2561.0	2615.6	2596.5	2558.3
1366.6	42.5°	1418.5	1503.2	1585.2	1675.4	1724.6	1850.4	1957.0	1926.9	1910.5
1038.6	45°	1076.9	1153.4	1249.1	1317.4	1366.6	1440.4	1541.5	1552.4	1527.8
833.6	47.5°	863.7	932.0	1008.5	1093.3	1150.7	1197.1	1284.6	1317.4	1301.0
702.4	50°	732.5	784.4	858.2	942.9	1005.8	1046.8	1123.3	1158.9	1147.9
587.6	52.5°	623.2	686.0	754.4	825.4	901.9	942.9	1014.0	1065.9	1057.7
486.5	55°	516.6	598.6	669.6	740.7	828.2	869.1	932.0	1000.3	986.7
412.7	57.5°	451.0	519.3	593.1	661.4	754.4	809.0	866.4	937.5	934.7
338.9	60°	377.2	445.5	527.5	584.9	683.3	759.8	811.8	885.5	891.0
256.9	62.5°	300.6	385.4	448.2	527.5	617.7	707.9	757.1	830.9	858.2
196.8	65°	224.1	317.0	388.1	467.4	552.1	653.2	697.0	770.8	798.1
142.1	67.5°	166.7	237.8	328.0	396.3	492.0	579.4	631.4	699.7	718.8
84.7	70°	125.7	183.1	273.3	333.4	431.8	502.9	554.8	606.8	631.4
57.4	72.5°	73.8	136.7	215.9	287.0	371.7	431.8	470.1	511.1	527.5
27.3	75°	51.9	103.9	169.5	237.8	300.6	349.8	385.4	420.9	437.3
13.7	77.5°	27.3	76.5	133.9	191.3	235.1	276.1	311.6	338.9	349.8
10.9	80°	16.4	54.7	109.3	150.3	180.4	215.9	251.5	270.6	267.9
8.2	82.5°	10.9	43.7	79.3	109.3	131.2	158.5	183.1	196.8	196.8
5.5	85°	8.2	30.1	54.7	84.7	87.5	109.3	114.8	128.5	131.2
5.5	87.5°	5.5	19.1	30.1	49.2	46.5	57.4	60.1	68.3	73.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
33019.5
33156.1
34082.7
34402.5
33905.0
32967.5
31450.6
28807.7
25579.8
21756.1
18287.7
14652.5
11446.5
8213.2
5354.3
3610.5
2563.7
1896.8
1525.1
1292.8
1145.2
1052.3
986.7
932.0
891.0
855.5
795.4
718.8
625.9
522.0
431.8
347.1
265.1
194.1
128.5
71.1
0.0

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