

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: P636531

Luminaire Tested: **IFLD-L-SA8B-940-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636531
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-940-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24335.4 lumens
Efficiency: N/A
Efficacy: 76.0 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): 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



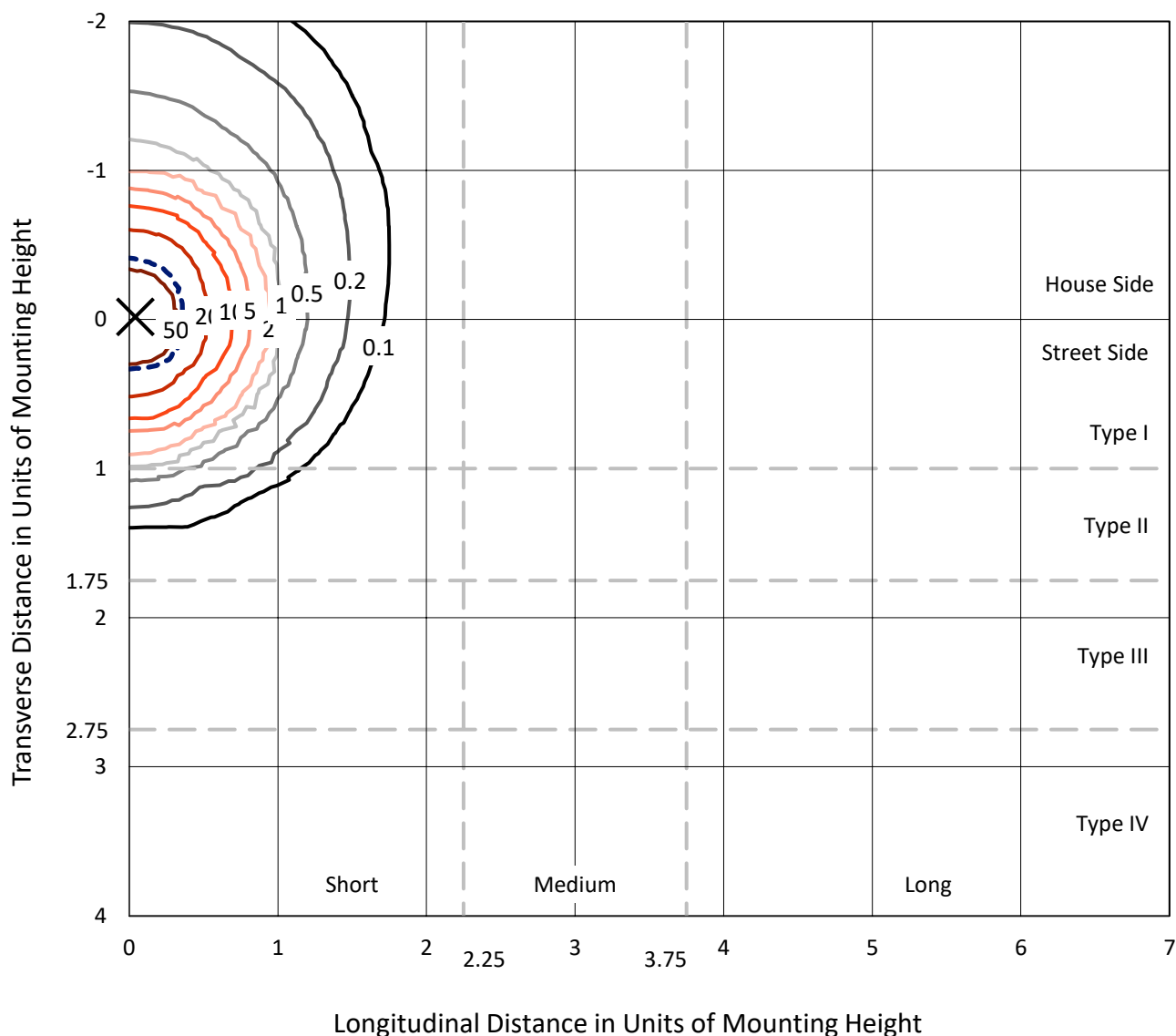
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

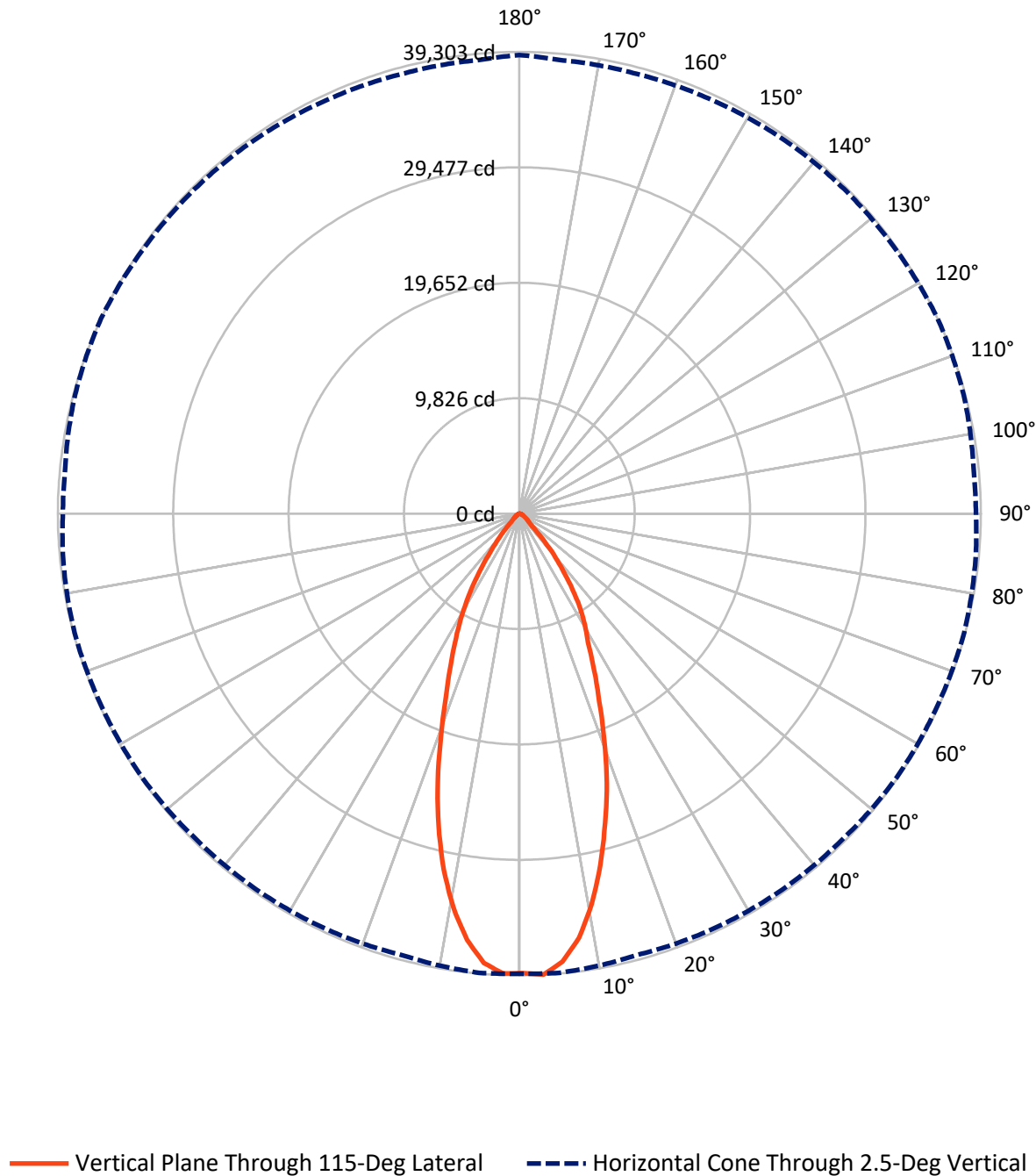


Based on 20 foot mounting height. Maximum calculated value = 97.8 fc

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	13430.3	0.0	13430.3
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	10905.1	0.0	10905.1
	% Fixture	44.8	0.0	44.8
Total	Lumens	24335.4	0.0	24335.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3508.7	14.4
10°-20°	7415.5	30.5
20°-30°	6693.0	27.5
30°-40°	4429.1	18.2
40°-50°	1326.8	5.5
50°-60°	532.2	2.2
60°-70°	275.6	1.1
70°-80°	119.7	0.5
80°-90°	34.8	0.1
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°	24335.4	100.0
0°-180°	24335.4	100.0

Coefficient of Utilization



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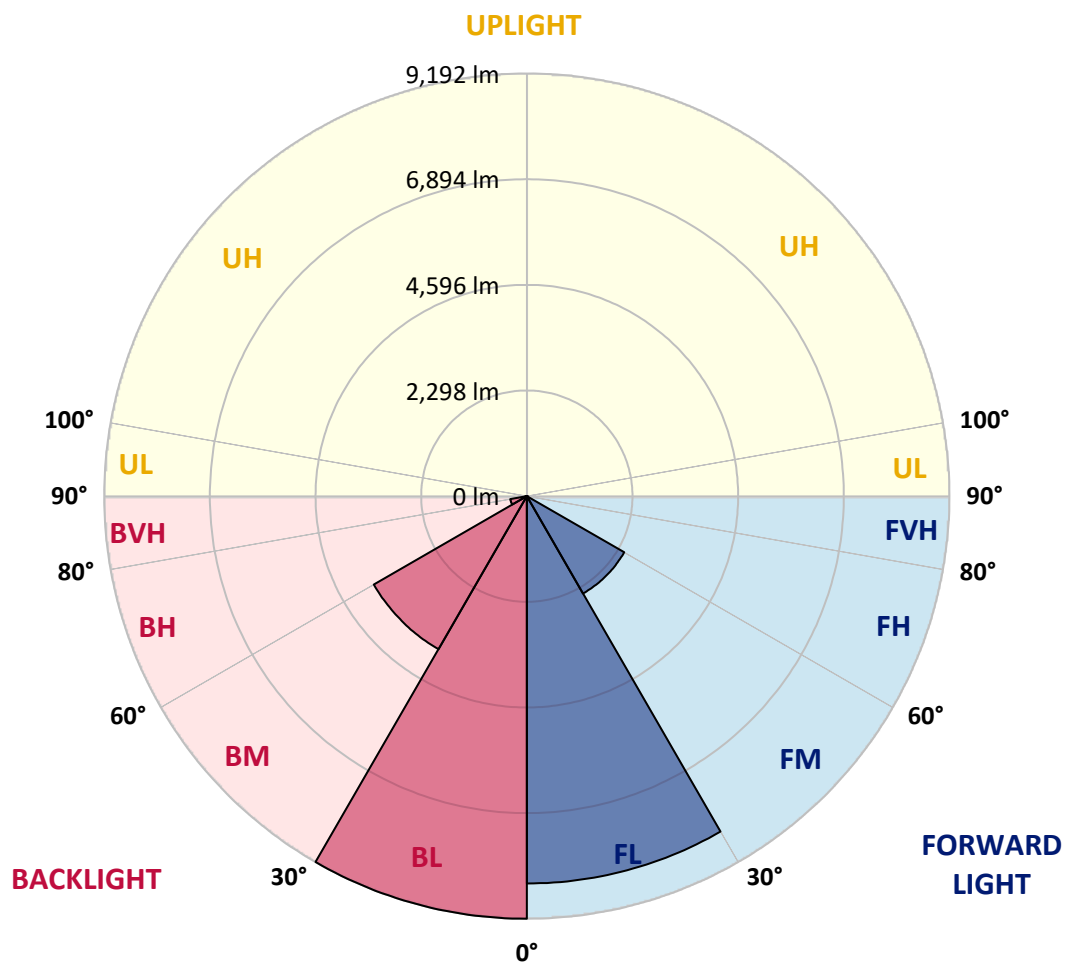
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8425.1	34.6			
FM	(30°-60°)	2444.7	10.0			
FH	(60°-80°)	30.3	0.1			G0/660
FVH	(80°-90°)	5.0	0.0			G0/10
BL	(0°-30°)	9192.1	37.8	B5		
BM	(30°-60°)	3843.4	15.8	B3/5000		
BH	(60°-80°)	365.0	1.5	B1/500		G1/500
BVH	(80°-90°)	29.8	0.1			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°	39119.1	39119.1	39119.1	39119.1	39119.1	39119.1	39119.1	39119.1	39119.1	39119.1
2.5°	39168.9	39238.6	38890.2	39009.6	39059.4	39074.3	39198.7	39178.8	39213.7	39029.5
5°	38651.3	38516.9	38258.1	38263.1	38248.1	38108.8	38392.5	38372.6	38312.8	38093.9
7.5°	36889.4	37083.5	36595.8	36585.8	36575.9	36406.7	36779.9	36551.0	36600.8	36287.2
10°	34311.3	34336.2	33903.2	33863.4	33898.3	33679.3	34112.3	34022.7	34117.2	33788.8
12.5°	31151.0	31290.3	30812.5	30742.8	30882.2	30573.6	30922.0	30966.8	30827.5	30782.7
15°	24432.0	24800.3	25706.1	27089.7	27448.1	27189.3	27468.0	27463.0	27522.7	27184.3
17.5°	18613.9	18648.8	18434.8	19096.7	22929.0	24173.2	24232.9	23760.1	23401.8	23277.4
20°	16249.9	16369.3	16175.2	16230.0	16842.1	20490.3	20629.6	19917.9	19305.7	19256.0
22.5°	14368.6	14443.2	14303.9	14348.7	14378.5	14806.5	17230.3	16603.2	16309.6	16085.6
25°	12775.9	12775.9	12701.3	12716.2	12686.3	12054.3	13298.5	14015.2	13846.0	13766.3
27.5°	11322.6	11342.6	11248.0	11302.7	10939.4	9919.1	9769.8	11885.0	11705.9	11561.5
30°	9944.0	10008.7	9919.1	9949.0	9157.7	8321.5	7893.5	9914.2	10138.1	10098.3
32.5°	7485.4	7779.0	8500.7	8530.6	7455.5	6813.5	6624.4	7958.2	8809.3	8734.6
35°	4638.6	4623.6	4653.5	6086.9	5718.6	5280.6	5350.3	6012.2	6972.8	6937.9
37.5°	3538.6	3533.7	3588.4	3444.1	3747.7	4006.5	4061.2	4061.2	5091.5	5096.4
40°	2682.6	2662.7	2657.7	2428.8	2035.6	3006.1	2916.5	2841.9	3538.6	3613.3
42.5°	1712.1	1771.8	1727.0	1478.2	1328.9	1642.4	1831.5	1771.8	2184.9	2239.6
45°	955.6	955.6	915.8	776.4	771.4	831.2	1045.2	975.5	1119.8	1194.5
47.5°	462.9	452.9	497.7	612.2	637.1	617.1	746.5	776.4	846.1	915.8
50°	373.3	373.3	353.4	318.5	527.6	507.7	552.4	592.3	632.1	691.8
52.5°	313.6	313.6	288.7	268.8	303.6	388.2	393.2	467.8	462.9	547.5
55°	159.3	164.2	233.9	233.9	204.1	318.5	323.5	378.3	388.2	457.9
57.5°	14.9	19.9	29.9	144.3	159.3	174.2	243.9	278.7	323.5	353.4
60°	5.0	5.0	10.0	19.9	94.6	119.4	154.3	184.1	224.0	293.6
62.5°	0.0	0.0	5.0	10.0	19.9	74.7	84.6	94.6	134.4	184.1
65°	0.0	0.0	5.0	5.0	10.0	24.9	34.8	59.7	84.6	114.5
67.5°	0.0	0.0	5.0	5.0	10.0	14.9	19.9	29.9	39.8	74.7
70°	0.0	0.0	5.0	5.0	10.0	14.9	14.9	19.9	24.9	34.8
72.5°	0.0	0.0	5.0	5.0	10.0	19.9	14.9	14.9	19.9	24.9
75°	0.0	0.0	5.0	5.0	10.0	14.9	14.9	14.9	14.9	14.9
77.5°	0.0	0.0	5.0	5.0	10.0	14.9	14.9	14.9	10.0	10.0
80°	0.0	0.0	5.0	5.0	10.0	14.9	19.9	19.9	10.0	10.0
82.5°	0.0	0.0	5.0	10.0	10.0	24.9	29.9	24.9	10.0	5.0
85°	0.0	0.0	5.0	5.0	14.9	24.9	24.9	14.9	10.0	5.0
87.5°	0.0	0.0	0.0	5.0	5.0	10.0	14.9	14.9	5.0	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°
39119.1	0°	39119.1	39119.1	39119.1	39119.1	39119.1	39119.1	39119.1	39119.1	39119.1
38880.2	2.5°	38860.3	39163.9	39303.3	39158.9	39089.3	38989.7	38845.4	38745.8	38765.8
37974.4	5°	37889.8	38208.3	38317.8	38193.4	38088.9	38034.1	38009.2	38059.0	38188.4
36152.8	7.5°	36142.9	36346.9	36466.4	36406.7	36262.3	36426.6	36471.4	36441.5	36630.6
33689.2	10°	33699.2	33923.1	33813.6	33838.5	33669.3	33753.9	33729.0	33838.5	34027.7
30747.8	12.5°	30548.7	30762.8	30678.1	30663.2	30484.0	30643.3	30543.8	30663.2	30912.1
27044.9	15°	27239.1	27373.4	27318.7	27234.1	27074.8	27129.6	27438.1	27418.2	27527.7
23202.7	17.5°	23103.2	23750.2	24103.5	24178.2	24048.8	24158.3	24377.3	24322.5	24571.4
19151.4	20°	19116.6	19768.6	20639.6	21346.3	21361.2	21376.2	21515.5	21550.4	21764.4
16090.6	22.5°	16020.9	16483.8	17419.5	18355.1	19002.1	19136.5	19121.6	19171.4	19231.1
13656.9	25°	13622.0	13960.4	14816.5	15463.5	16598.3	16976.5	17086.0	16976.5	17011.3
11511.8	27.5°	11641.2	12158.8	12442.5	13134.3	14244.1	15120.1	15085.2	15020.5	15030.5
10018.7	30°	10013.7	10571.1	10989.2	11198.2	12034.4	13298.5	13427.9	13243.8	13248.7
8699.8	32.5°	8645.0	8819.2	9436.4	9605.6	10143.1	11292.8	11735.7	11596.4	11571.5
6957.8	35°	7161.9	7256.4	7540.1	7873.6	8192.1	9063.1	9794.7	9665.3	9730.0
5116.3	37.5°	5096.4	5484.6	5758.4	6032.1	6261.0	6808.5	7689.4	7570.0	7634.7
3623.2	40°	3593.4	3767.6	4240.4	4359.8	4698.3	4952.1	5698.7	5658.8	5738.5
2249.6	42.5°	2209.8	2334.2	2573.1	2687.6	2916.5	3060.8	3498.8	3548.6	3653.1
1244.2	45°	1254.2	1308.9	1473.2	1597.6	1766.8	1826.6	1980.8	2050.5	2110.2
965.5	47.5°	955.6	1015.3	1124.8	1234.3	1373.6	1423.4	1532.9	1637.4	1692.2
746.5	50°	781.4	836.1	950.6	1040.2	1179.5	1224.3	1313.9	1428.4	1498.1
567.4	52.5°	592.3	671.9	811.2	905.8	1050.1	1104.9	1189.5	1304.0	1368.7
467.8	55°	487.7	547.5	671.9	801.3	935.7	1010.3	1065.1	1204.4	1274.1
383.2	57.5°	418.1	462.9	542.5	696.8	811.2	920.7	965.5	1094.9	1164.6
303.6	60°	318.5	388.2	457.9	577.3	706.7	821.2	871.0	985.4	1040.2
219.0	62.5°	263.8	308.6	398.2	462.9	607.2	726.6	776.4	880.9	920.7
144.3	65°	184.1	248.8	333.5	373.3	507.7	622.1	691.8	771.4	811.2
84.6	67.5°	109.5	184.1	263.8	318.5	413.1	527.6	602.2	676.9	711.7
49.8	70°	69.7	144.3	209.0	268.8	323.5	433.0	522.6	587.3	572.4
29.9	72.5°	39.8	89.6	154.3	219.0	268.8	363.3	447.9	497.7	353.4
19.9	75°	24.9	64.7	129.4	179.2	219.0	288.7	368.3	378.3	219.0
10.0	77.5°	19.9	49.8	99.5	144.3	149.3	214.0	258.8	293.6	164.2
10.0	80°	10.0	39.8	84.6	119.4	94.6	149.3	199.1	228.9	129.4
5.0	82.5°	10.0	24.9	64.7	84.6	69.7	114.5	144.3	164.2	109.5
5.0	85°	5.0	19.9	34.8	49.8	49.8	74.7	64.7	79.6	69.7
5.0	87.5°	5.0	10.0	19.9	24.9	19.9	29.9	34.8	34.8	29.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
39119.1
39034.5
38457.2
36819.8
34102.3
30956.9
27552.6
24531.6
21719.6
19121.6
16956.6
15045.4
13253.7
11631.2
9789.7
7689.4
5768.3
3772.6
2105.3
1717.1
1527.9
1413.5
1294.0
1194.5
1050.1
925.7
811.2
706.7
527.6
313.6
204.1
164.2
134.4
119.4
69.7
24.9
0.0

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