

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: P637684

Luminaire Tested: **IFLD-M-SA4E-750-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637684
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-750-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34787.3 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 314.8
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



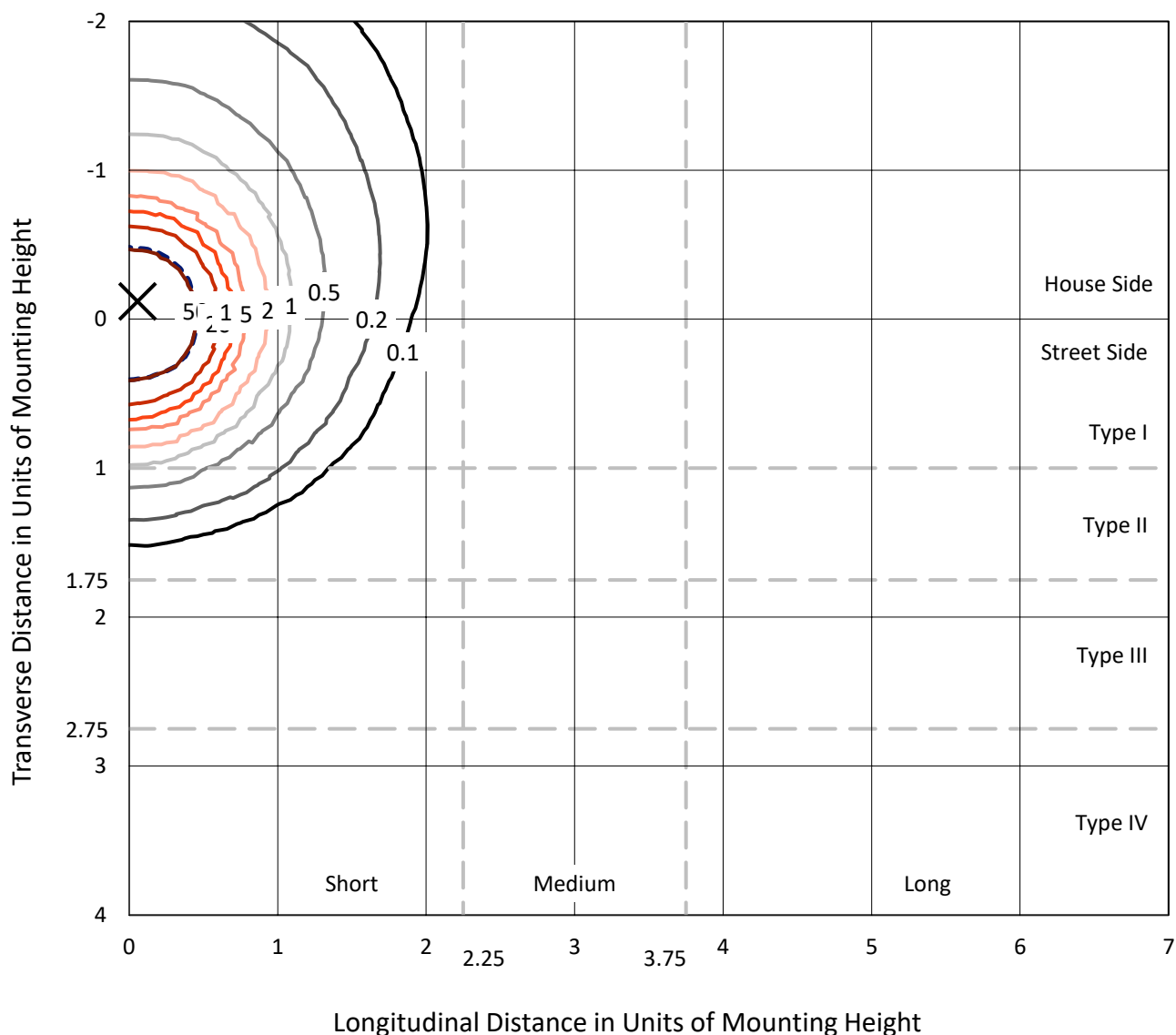
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

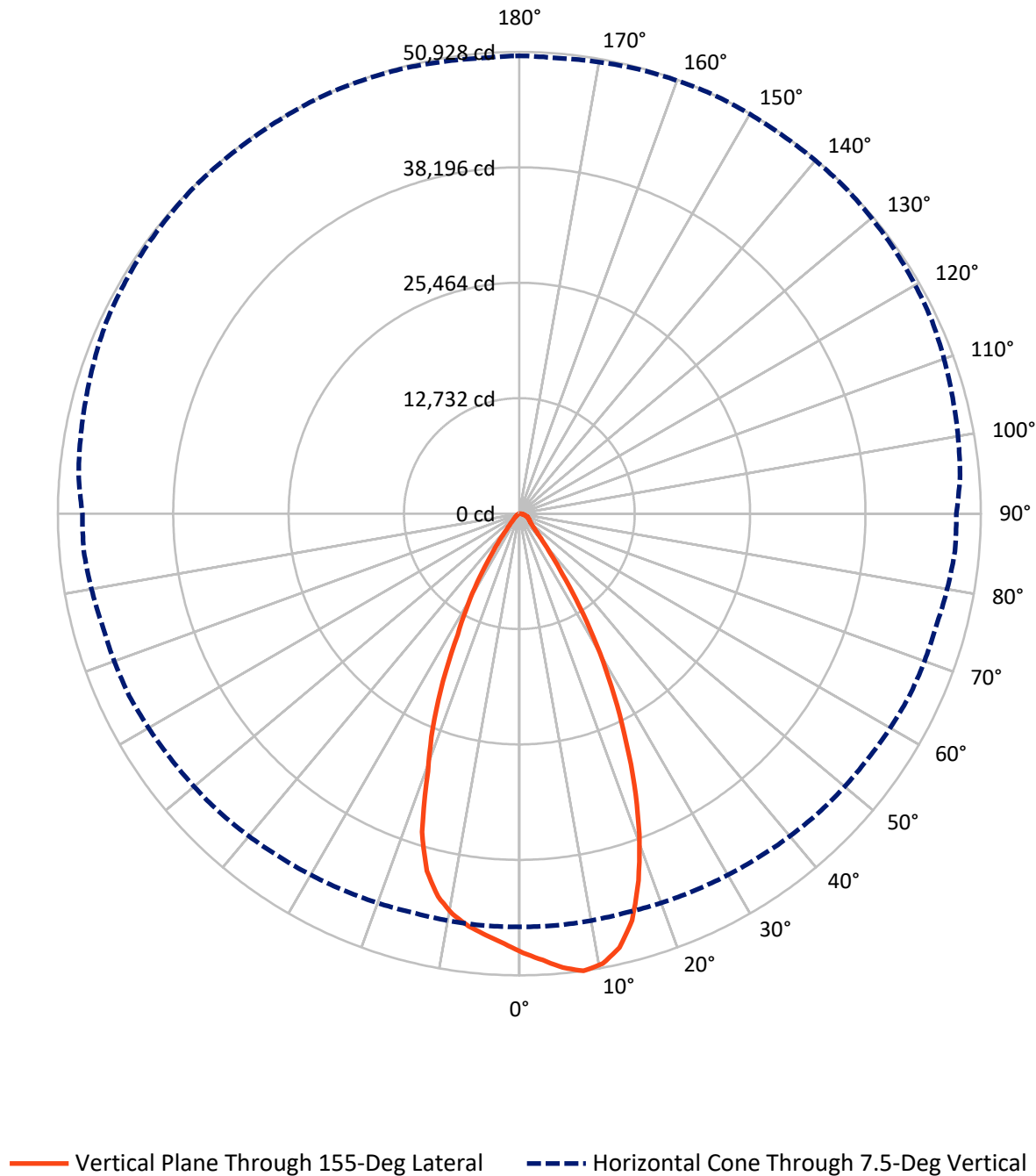


Based on 20 foot mounting height. Maximum calculated value = 123.2 fc

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	19203.8	0.0	19203.8
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	15583.4	0.0	15583.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	34787.3	0.0	34787.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4621.1	13.3
10°-20°	11982.5	34.4
20°-30°	10979.4	31.6
30°-40°	4435.7	12.8
40°-50°	1301.2	3.7
50°-60°	727.5	2.1
60°-70°	441.9	1.3
70°-80°	224.5	0.6
80°-90°	73.4	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°	34787.3	100.0
0°-180°	34787.3	100.0

Coefficient of Utilization



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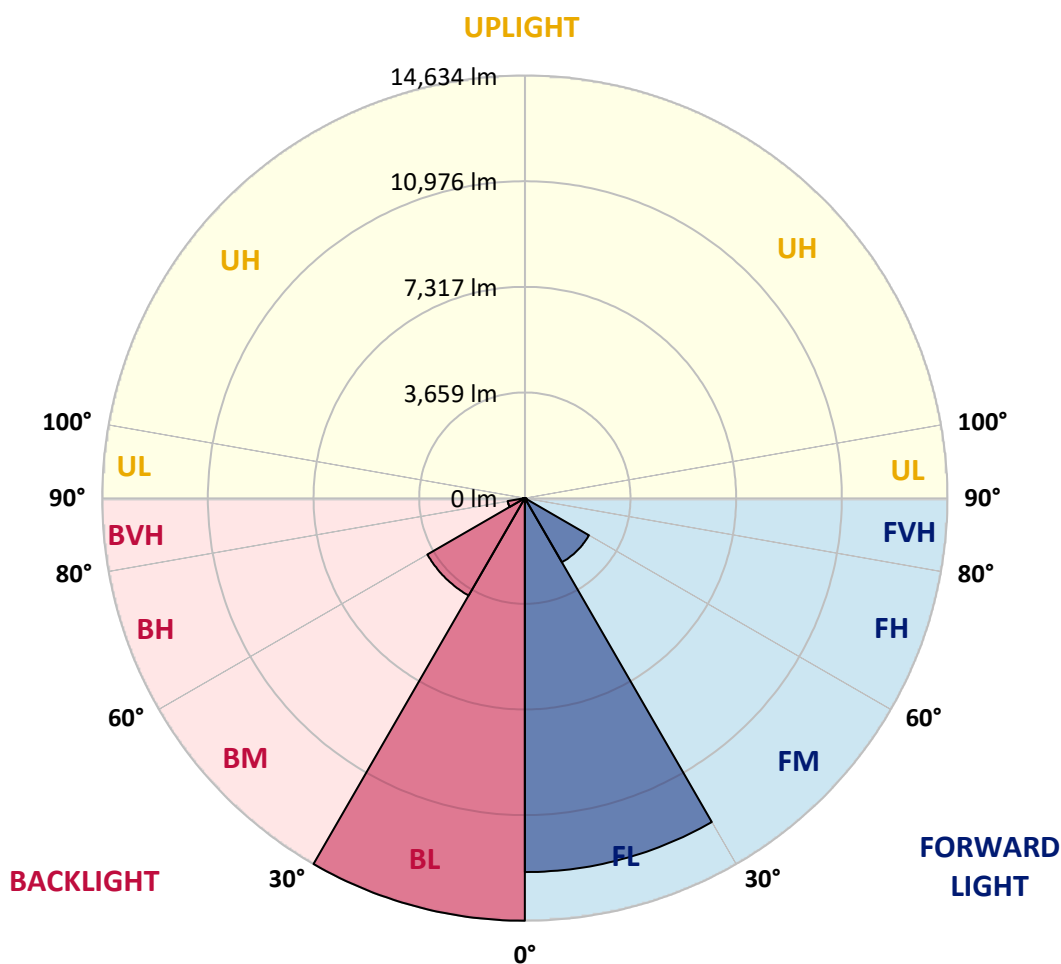
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	12948.7	37.2			
FM	(30°-60°)	2566.2	7.4			
FH	(60°-80°)	62.2	0.2			G0/660
FVH	(80°-90°)	6.4	0.0			G0/10
BL	(0°-30°)	14634.3	42.1	B5		
BM	(30°-60°)	3898.2	11.2	B3/5000		
BH	(60°-80°)	604.2	1.7	B2/1000		G2/1000
BVH	(80°-90°)	67.1	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°	48461.4	48461.4	48461.4	48461.4	48461.4	48461.4	48461.4	48461.4	48461.4	48461.4
2.5°	47410.4	47570.8	47249.9	47462.5	47627.0	48020.1	48052.2	48188.6	48236.7	48593.7
5°	46511.8	46636.2	46375.4	46660.3	46892.9	47241.9	47510.7	47887.7	48096.3	48517.5
7.5°	45577.2	45605.3	45553.1	45854.0	46203.0	46684.3	47017.3	47510.7	47639.0	48240.7
10°	44446.0	44241.4	44341.7	44782.9	45304.4	46042.5	46271.2	46764.6	46993.2	47606.9
12.5°	42640.9	42745.2	42620.8	43182.4	43615.6	44454.0	44694.7	45192.1	45629.3	46170.9
15°	40097.7	40037.5	40290.2	40727.4	41196.8	41862.7	42251.8	42793.3	43126.2	43687.8
17.5°	34381.5	34586.0	35629.0	36724.1	37686.8	38465.0	38930.3	39379.6	39620.3	40230.0
20°	29692.2	29435.4	29575.8	30193.6	32933.3	34124.7	34614.1	34722.4	34822.7	35304.1
22.5°	24449.3	24365.1	24834.4	25528.4	26178.2	28926.0	29591.9	29339.2	29547.8	30001.0
25°	18155.5	18580.7	18997.8	20329.6	21172.0	22519.8	23783.4	23895.7	23971.9	24256.8
27.5°	14777.9	14629.5	14621.4	14994.5	16238.0	17361.2	18436.3	18685.0	18640.8	18913.6
30°	11616.9	11568.8	11400.3	11488.6	11364.2	12363.0	12868.5	13891.4	13835.2	13843.2
32.5°	8379.8	8199.2	8131.0	8263.4	8135.1	8042.8	8484.0	9639.3	9619.3	9699.5
35°	5070.4	5046.3	5102.5	5218.8	4962.1	4954.0	5046.3	6133.4	6265.8	6394.1
37.5°	2799.9	2775.9	2820.0	3249.2	3165.0	3088.8	3112.8	3686.4	4067.5	4163.8
40°	1845.2	1841.2	1873.3	1949.5	2093.9	2065.9	2077.9	2334.6	2695.6	2779.9
42.5°	1235.5	1239.5	1259.6	1347.8	1367.9	1512.3	1488.2	1548.4	1885.3	1957.5
45°	986.8	982.8	994.8	954.7	978.8	1127.2	1143.2	1147.3	1436.1	1480.2
47.5°	778.2	778.2	790.2	738.1	726.1	818.3	902.6	914.6	1147.3	1207.4
50°	545.5	545.5	605.7	581.6	609.7	637.8	730.1	742.1	938.7	1002.8
52.5°	401.1	409.2	417.2	421.2	513.5	509.4	589.7	645.8	710.0	822.3
55°	304.9	312.9	292.8	312.9	381.1	425.2	441.3	521.5	565.6	690.0
57.5°	200.6	220.6	204.6	240.7	256.7	328.9	353.0	429.2	457.3	565.6
60°	28.1	32.1	52.1	168.5	180.5	216.6	272.8	341.0	369.0	461.3
62.5°	4.0	4.0	12.0	28.1	120.3	144.4	204.6	236.7	272.8	345.0
65°	0.0	0.0	4.0	8.0	24.1	84.2	104.3	128.4	188.5	248.7
67.5°	0.0	0.0	4.0	8.0	12.0	28.1	44.1	84.2	108.3	172.5
70°	0.0	0.0	4.0	8.0	12.0	16.0	24.1	32.1	64.2	100.3
72.5°	0.0	0.0	4.0	8.0	12.0	16.0	20.1	24.1	28.1	64.2
75°	0.0	0.0	4.0	8.0	12.0	20.1	24.1	24.1	24.1	28.1
77.5°	0.0	0.0	4.0	8.0	16.0	24.1	28.1	24.1	20.1	20.1
80°	0.0	0.0	4.0	12.0	20.1	28.1	32.1	24.1	16.0	12.0
82.5°	0.0	0.0	4.0	12.0	20.1	28.1	32.1	28.1	16.0	12.0
85°	0.0	0.0	4.0	12.0	16.0	20.1	32.1	28.1	16.0	8.0
87.5°	0.0	0.0	0.0	4.0	4.0	8.0	16.0	12.0	8.0	4.0
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°
48461.4	0°	48461.4	48461.4	48461.4	48461.4	48461.4	48461.4	48461.4	48461.4	48461.4
48585.7	2.5°	48946.7	49127.2	49444.1	49532.4	49805.2	49492.3	49319.8	49335.8	48962.8
48465.4	5°	48946.7	49359.9	49913.5	50178.2	50378.8	50362.7	50318.6	50206.3	49933.5
48224.7	7.5°	48818.4	49492.3	50254.4	50607.4	50848.1	50828.1	50928.4	50747.8	50414.9
47795.5	10°	48405.2	48990.9	49929.5	50218.3	50607.4	50615.5	50491.1	50527.2	49933.5
46227.0	12.5°	47105.5	47562.8	48385.1	48714.1	49187.4	49263.6	49127.2	49075.1	48513.5
43655.7	15°	44590.4	44855.1	45681.5	46010.4	46479.7	46415.6	46551.9	46495.8	46002.4
40181.9	17.5°	40912.0	40996.2	41862.7	42139.4	42580.7	42753.2	42548.6	42809.3	42384.1
35388.3	20°	35637.0	36090.3	37065.1	37490.3	37747.0	38055.9	37787.1	38079.9	37582.5
29571.8	22.5°	30285.8	30554.6	31437.1	32050.8	32528.2	32588.4	32488.1	32692.7	32022.8
24445.3	25°	24441.3	24886.5	25584.5	26386.8	26856.1	27144.9	26884.2	27016.6	26908.3
18957.7	27.5°	19278.6	19675.8	20201.3	20799.0	21505.0	21882.0	21673.4	21898.1	21368.6
14136.1	30°	14148.1	14348.7	14942.4	15576.1	16350.3	16807.6	16827.7	17056.3	16743.5
9904.1	32.5°	9976.3	10152.8	10517.8	10939.0	11677.1	12186.5	12106.3	12138.4	11945.9
6454.3	35°	6486.4	6723.1	6983.8	7184.4	7629.6	8191.2	8147.1	8107.0	7974.6
4244.0	37.5°	4336.3	4428.6	4573.0	4753.5	5042.3	5395.3	5511.6	5367.2	5311.1
2864.1	40°	2932.3	3092.8	3189.0	3325.4	3461.8	3758.7	3838.9	3810.8	3754.6
2005.7	42.5°	2081.9	2206.3	2326.6	2459.0	2531.2	2715.7	2872.1	2828.0	2803.9
1524.3	45°	1580.5	1692.8	1833.2	1933.5	2005.7	2114.0	2262.4	2278.5	2242.4
1223.5	47.5°	1267.6	1367.9	1480.2	1604.5	1688.8	1757.0	1885.3	1933.5	1909.4
1030.9	50°	1075.0	1151.3	1259.6	1383.9	1476.2	1536.4	1648.7	1700.8	1684.8
862.4	52.5°	914.6	1006.9	1107.1	1211.4	1323.8	1383.9	1488.2	1564.4	1552.4
714.0	55°	758.1	878.5	982.8	1087.1	1215.4	1275.6	1367.9	1468.2	1448.1
605.7	57.5°	661.9	762.2	870.5	970.8	1107.1	1187.4	1271.6	1375.9	1371.9
497.4	60°	553.6	653.9	774.2	858.4	1002.8	1115.2	1191.4	1299.7	1307.7
377.1	62.5°	441.3	565.6	657.9	774.2	906.6	1038.9	1111.1	1219.5	1259.6
288.8	65°	328.9	465.3	569.6	685.9	810.3	958.7	1022.9	1131.2	1171.3
208.6	67.5°	244.7	349.0	481.4	581.6	722.0	850.4	926.6	1026.9	1055.0
124.4	70°	184.5	268.8	401.1	489.4	633.8	738.1	814.3	890.5	926.6
84.2	72.5°	108.3	200.6	316.9	421.2	545.5	633.8	690.0	750.1	774.2
40.1	75°	76.2	152.4	248.7	349.0	441.3	513.5	565.6	617.8	641.8
20.1	77.5°	40.1	112.3	196.6	280.8	345.0	405.1	457.3	497.4	513.5
16.0	80°	24.1	80.2	160.5	220.6	264.8	316.9	369.0	397.1	393.1
12.0	82.5°	16.0	64.2	116.3	160.5	192.5	232.7	268.8	288.8	288.8
8.0	85°	12.0	44.1	80.2	124.4	128.4	160.5	168.5	188.5	192.5
8.0	87.5°	8.0	28.1	44.1	72.2	68.2	84.2	88.3	100.3	108.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
48461.4
48661.9
50021.8
50491.1
49761.0
48385.1
46158.8
42279.8
37542.4
31930.5
26840.1
21505.0
16799.6
12054.2
7858.3
5299.0
3762.7
2783.9
2238.3
1897.4
1680.8
1544.4
1448.1
1367.9
1307.7
1255.6
1167.3
1055.0
918.6
766.2
633.8
509.4
389.1
284.8
188.5
104.3
0.0

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