

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: P637624

Luminaire Tested: **IFLD-M-SA4C-735-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637624
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-735-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26341.2 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 218.1
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



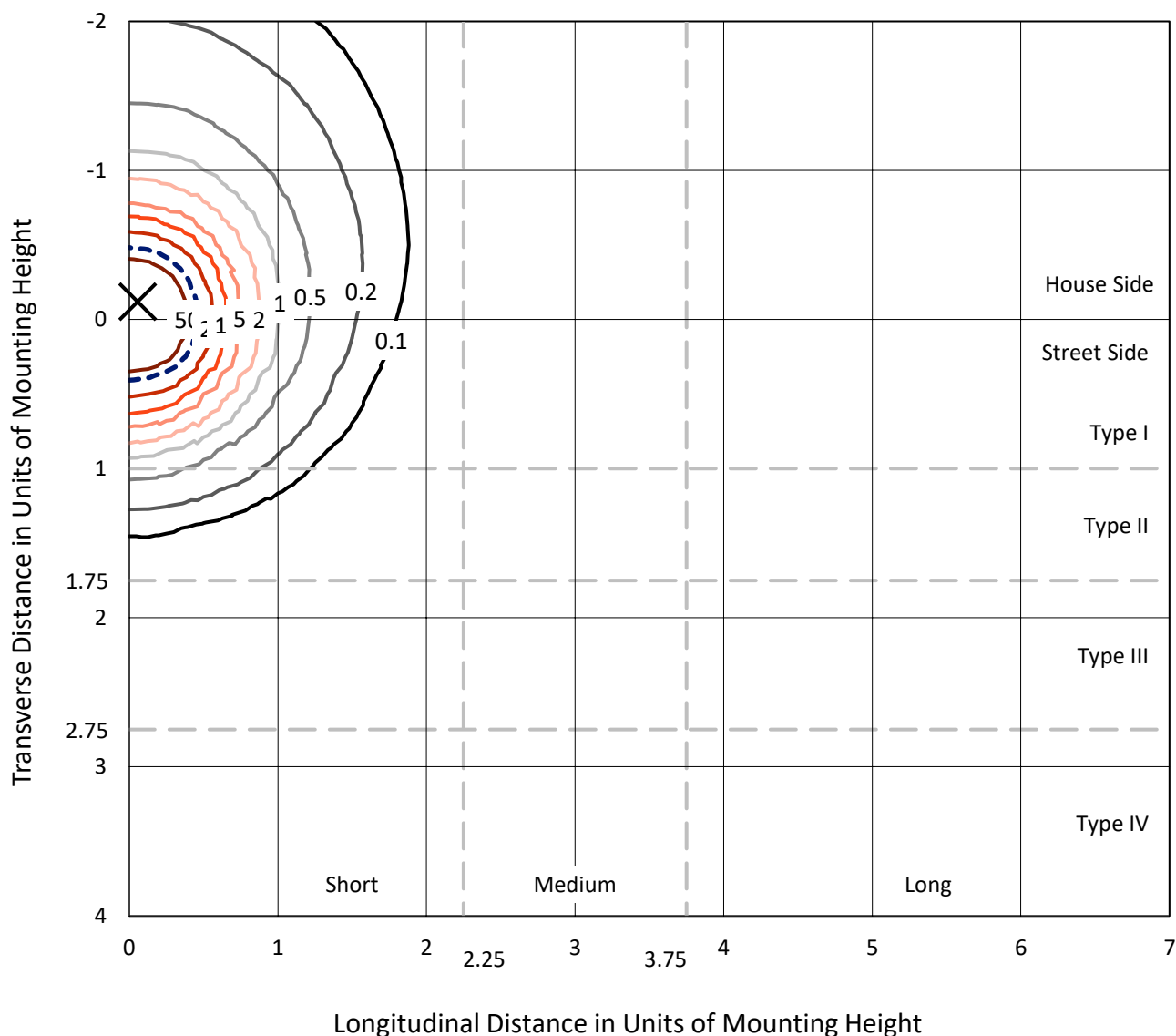
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

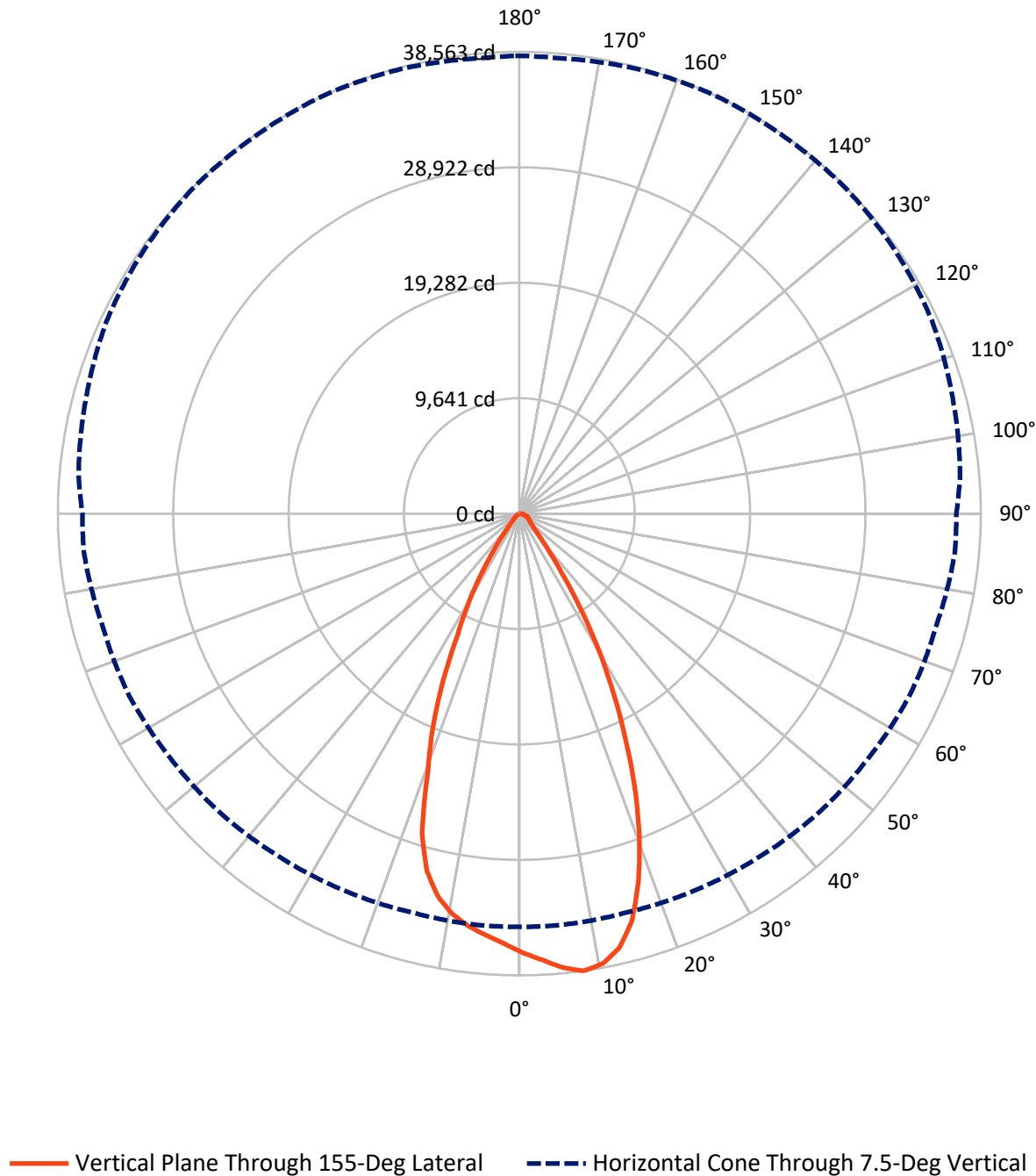


Based on 20 foot mounting height. Maximum calculated value = 93.3 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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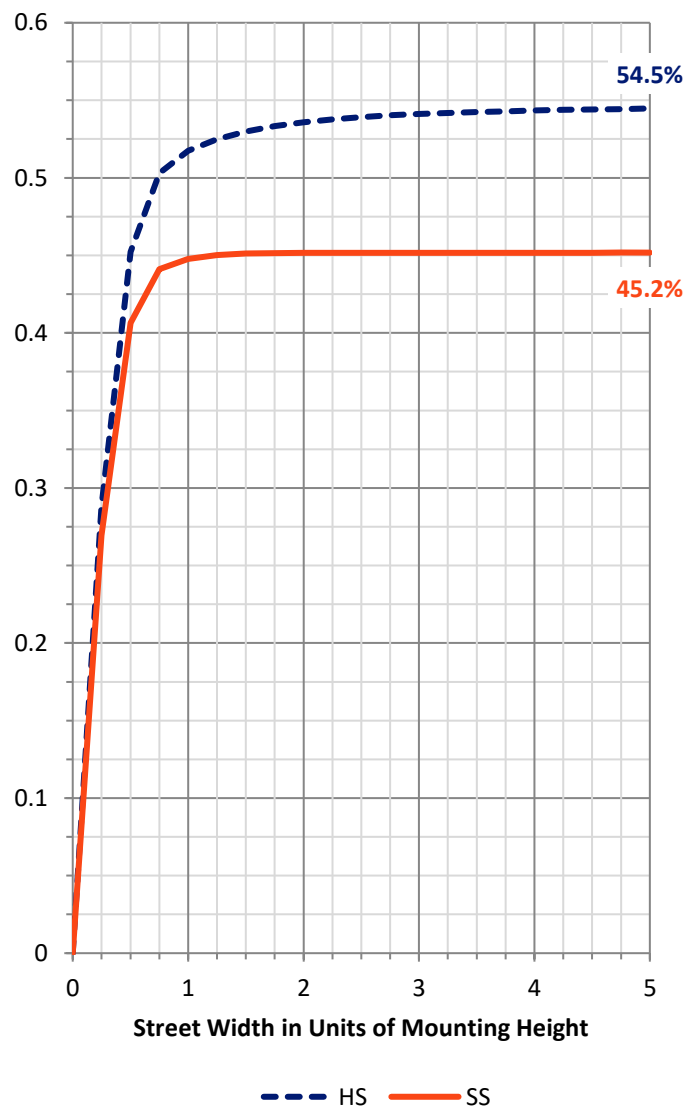
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14541.3	0.0	14541.3
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	11799.9	0.0	11799.9
	% Fixture	44.8	0.0	44.8
Total	Lumens	26341.2	0.0	26341.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3499.1	13.3
10°-20°	9073.3	34.4
20°-30°	8313.6	31.6
30°-40°	3358.7	12.8
40°-50°	985.3	3.7
50°-60°	550.9	2.1
60°-70°	334.6	1.3
70°-80°	170.0	0.6
80°-90°	55.6	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°	26341.2	100.0
0°-180°	26341.2	100.0

Coefficient of Utilization



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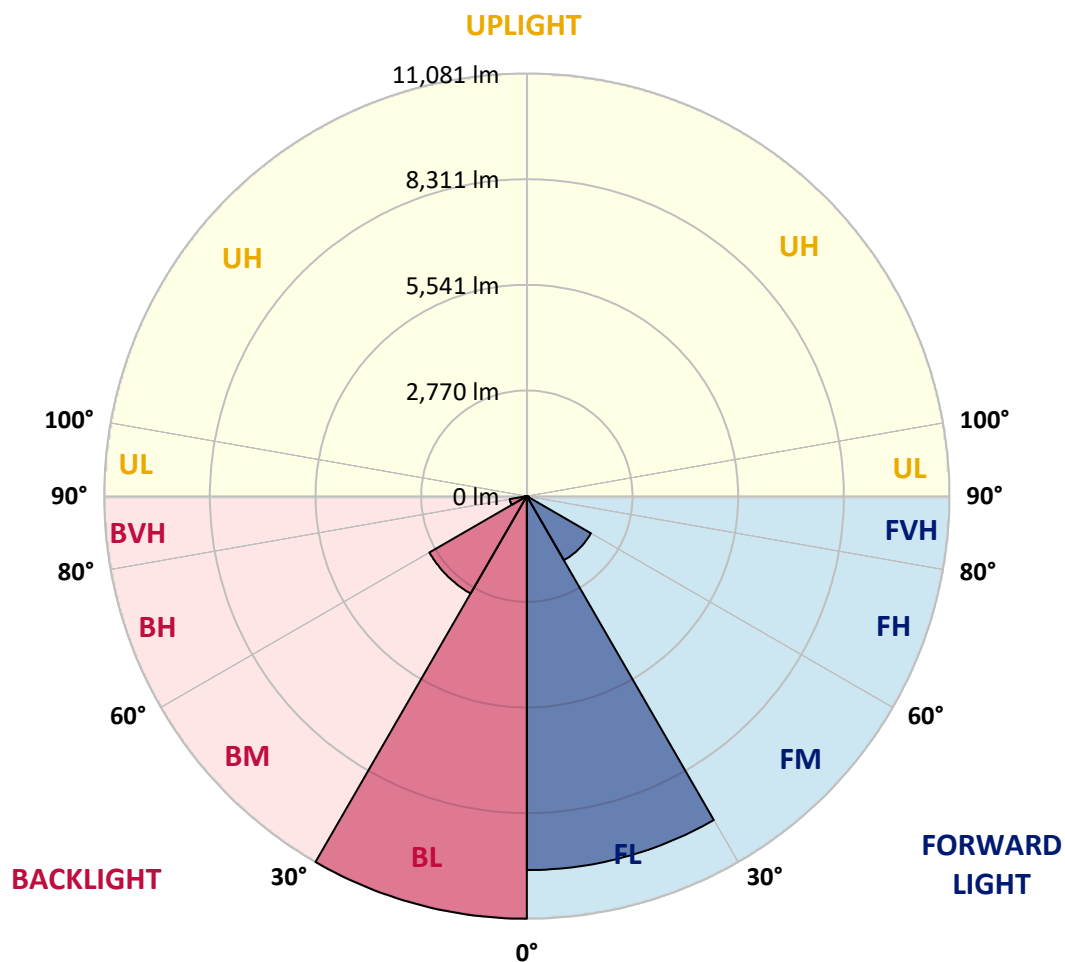
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9804.9	37.2			
FM	(30°-60°)	1943.1	7.4			
FH	(60°-80°)	47.1	0.2			G0/660
FVH	(80°-90°)	4.8	0.0			G0/10
BL	(0°-30°)	11081.2	42.1	B5		
BM	(30°-60°)	2951.8	11.2	B3/5000		
BH	(60°-80°)	457.5	1.7	B1/500		G1/500
BVH	(80°-90°)	50.8	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°	36695.3	36695.3	36695.3	36695.3	36695.3	36695.3	36695.3	36695.3	36695.3	36695.3
2.5°	35899.5	36021.0	35778.0	35939.0	36063.5	36361.2	36385.5	36488.7	36525.2	36795.5
5°	35219.1	35313.3	35115.8	35331.5	35507.7	35771.9	35975.4	36260.9	36418.9	36737.8
7.5°	34511.4	34532.6	34493.2	34721.0	34985.2	35349.7	35601.8	35975.4	36072.6	36528.2
10°	33654.8	33499.9	33575.8	33910.0	34304.8	34863.7	35036.9	35410.5	35583.6	36048.3
12.5°	32288.0	32366.9	32272.8	32698.0	33026.1	33660.9	33843.1	34219.8	34550.9	34960.9
15°	30362.2	30316.7	30508.0	30839.1	31194.5	31698.7	31993.3	32403.4	32655.5	33080.7
17.5°	26033.9	26188.8	26978.5	27807.7	28536.7	29126.0	29478.3	29818.5	30000.8	30462.5
20°	22483.1	22288.7	22395.0	22862.8	24937.4	25839.5	26210.1	26292.1	26368.0	26732.5
22.5°	18513.2	18449.4	18804.8	19330.3	19822.3	21903.0	22407.2	22215.8	22373.8	22717.0
25°	13747.4	14069.4	14385.3	15393.7	16031.6	17052.2	18009.0	18094.0	18151.7	18367.4
27.5°	11189.9	11077.5	11071.5	11353.9	12295.6	13146.0	13960.1	14148.4	14115.0	14321.5
30°	8796.4	8760.0	8632.4	8699.2	8605.1	9361.4	9744.1	10518.6	10476.1	10482.2
32.5°	6345.2	6208.5	6156.9	6257.1	6159.9	6090.1	6424.2	7299.0	7283.8	7344.5
35°	3839.3	3821.1	3863.6	3951.7	3757.3	3751.2	3821.1	4644.2	4744.5	4841.7
37.5°	2120.1	2101.9	2135.3	2460.3	2396.5	2338.8	2357.1	2791.4	3080.0	3152.9
40°	1397.2	1394.2	1418.5	1476.2	1585.5	1564.3	1573.4	1767.8	2041.2	2104.9
42.5°	935.5	938.6	953.8	1020.6	1035.8	1145.1	1126.9	1172.5	1427.6	1482.3
45°	747.2	744.2	753.3	722.9	741.1	853.5	865.7	868.7	1087.4	1120.8
47.5°	589.3	589.3	598.4	558.9	549.8	619.6	683.4	692.5	868.7	914.3
50°	413.1	413.1	458.7	440.4	461.7	483.0	552.8	561.9	710.8	759.4
52.5°	303.7	309.8	315.9	318.9	388.8	385.8	446.5	489.0	537.6	622.7
55°	230.8	236.9	221.7	236.9	288.6	322.0	334.1	394.9	428.3	522.4
57.5°	151.9	167.1	154.9	182.2	194.4	249.1	267.3	325.0	346.3	428.3
60°	21.3	24.3	39.5	127.6	136.7	164.0	206.5	258.2	279.4	349.3
62.5°	3.0	3.0	9.1	21.3	91.1	109.3	154.9	179.2	206.5	261.2
65°	0.0	0.0	3.0	6.1	18.2	63.8	79.0	97.2	142.8	188.3
67.5°	0.0	0.0	3.0	6.1	9.1	21.3	33.4	63.8	82.0	130.6
70°	0.0	0.0	3.0	6.1	9.1	12.1	18.2	24.3	48.6	75.9
72.5°	0.0	0.0	3.0	6.1	9.1	12.1	15.2	18.2	21.3	48.6
75°	0.0	0.0	3.0	6.1	9.1	15.2	18.2	18.2	18.2	21.3
77.5°	0.0	0.0	3.0	6.1	12.1	18.2	21.3	18.2	15.2	15.2
80°	0.0	0.0	3.0	9.1	15.2	21.3	24.3	18.2	12.1	9.1
82.5°	0.0	0.0	3.0	9.1	15.2	21.3	24.3	21.3	12.1	9.1
85°	0.0	0.0	3.0	9.1	12.1	15.2	24.3	21.3	12.1	6.1
87.5°	0.0	0.0	0.0	3.0	3.0	6.1	12.1	9.1	6.1	3.0
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°
36695.3	0°	36695.3	36695.3	36695.3	36695.3	36695.3	36695.3	36695.3	36695.3	36695.3
36789.5	2.5°	37062.8	37199.5	37439.5	37506.3	37712.8	37475.9	37345.3	37357.5	37075.0
36698.3	5°	37062.8	37375.7	37794.8	37995.3	38147.2	38135.0	38101.6	38016.6	37810.0
36516.1	7.5°	36965.6	37475.9	38053.0	38320.3	38502.6	38487.4	38563.3	38426.6	38174.5
36191.1	10°	36652.8	37096.2	37807.0	38025.7	38320.3	38326.4	38232.2	38259.6	37810.0
35003.4	12.5°	35668.6	36014.9	36637.6	36886.7	37245.1	37302.8	37199.5	37160.0	36734.8
33056.4	15°	33764.2	33964.6	34590.3	34839.4	35194.8	35146.2	35249.5	35206.9	34833.3
30426.0	17.5°	30978.8	31042.6	31698.7	31908.3	32242.4	32373.0	32218.1	32415.5	32093.6
26796.3	20°	26984.6	27327.8	28065.9	28387.9	28582.3	28816.2	28612.7	28834.4	28457.8
22392.0	22.5°	22932.7	23136.2	23804.4	24269.1	24630.6	24676.2	24600.2	24755.1	24247.9
18510.2	25°	18507.1	18844.3	19372.8	19980.3	20335.7	20554.3	20356.9	20457.1	20375.1
14354.9	27.5°	14597.9	14898.6	15296.5	15749.1	16283.7	16569.2	16411.3	16581.4	16180.4
10703.9	30°	10713.0	10864.9	11314.5	11794.4	12380.6	12726.9	12742.1	12915.2	12678.3
7499.4	32.5°	7554.1	7687.8	7964.2	8283.1	8842.0	9227.7	9167.0	9191.3	9045.5
4887.2	35°	4911.5	5090.7	5288.2	5440.1	5777.2	6202.4	6169.0	6138.7	6038.4
3213.6	37.5°	3283.5	3353.3	3462.7	3599.4	3818.1	4085.4	4173.4	4064.1	4021.6
2168.7	40°	2220.4	2341.9	2414.8	2518.0	2621.3	2846.1	2906.8	2885.6	2843.0
1518.7	42.5°	1576.4	1670.6	1761.7	1861.9	1916.6	2056.3	2174.8	2141.4	2123.2
1154.2	45°	1196.8	1281.8	1388.1	1464.0	1518.7	1600.7	1713.1	1725.3	1697.9
926.4	47.5°	959.8	1035.8	1120.8	1215.0	1278.8	1330.4	1427.6	1464.0	1445.8
780.6	50°	814.0	871.7	953.8	1047.9	1117.8	1163.3	1248.4	1287.9	1275.7
653.0	52.5°	692.5	762.4	838.3	917.3	1002.4	1047.9	1126.9	1184.6	1175.5
540.7	55°	574.1	665.2	744.2	823.1	920.3	965.9	1035.8	1111.7	1096.5
458.7	57.5°	501.2	577.1	659.1	735.1	838.3	899.1	962.9	1041.8	1038.8
376.6	60°	419.2	495.1	586.2	650.0	759.4	844.4	902.1	984.1	990.2
285.5	62.5°	334.1	428.3	498.1	586.2	686.5	786.7	841.4	923.4	953.8
218.7	65°	249.1	352.3	431.3	519.4	613.6	725.9	774.5	856.6	886.9
157.9	67.5°	185.3	264.3	364.5	440.4	546.7	643.9	701.6	777.6	798.8
94.2	70°	139.7	203.5	303.7	370.6	479.9	558.9	616.6	674.3	701.6
63.8	72.5°	82.0	151.9	240.0	318.9	413.1	479.9	522.4	568.0	586.2
30.4	75°	57.7	115.4	188.3	264.3	334.1	388.8	428.3	467.8	486.0
15.2	77.5°	30.4	85.0	148.8	212.6	261.2	306.8	346.3	376.6	388.8
12.1	80°	18.2	60.7	121.5	167.1	200.5	240.0	279.4	300.7	297.7
9.1	82.5°	12.1	48.6	88.1	121.5	145.8	176.2	203.5	218.7	218.7
6.1	85°	9.1	33.4	60.7	94.2	97.2	121.5	127.6	142.8	145.8
6.1	87.5°	6.1	21.3	33.4	54.7	51.6	63.8	66.8	75.9	82.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
36695.3
36847.2
37876.9
38232.2
37679.4
36637.6
34951.8
32014.6
28427.4
24178.0
20323.5
16283.7
12720.8
9127.5
5950.3
4012.5
2849.1
2108.0
1694.9
1436.7
1272.7
1169.4
1096.5
1035.8
990.2
950.7
883.9
798.8
695.6
580.2
479.9
385.8
294.6
215.7
142.8
79.0
0.0

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