

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: P637595

Luminaire Tested: **IFLD-M-SA4C-730-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637595
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-730-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24319.4 lumens
Efficiency: N/A
Efficacy: 111.5 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



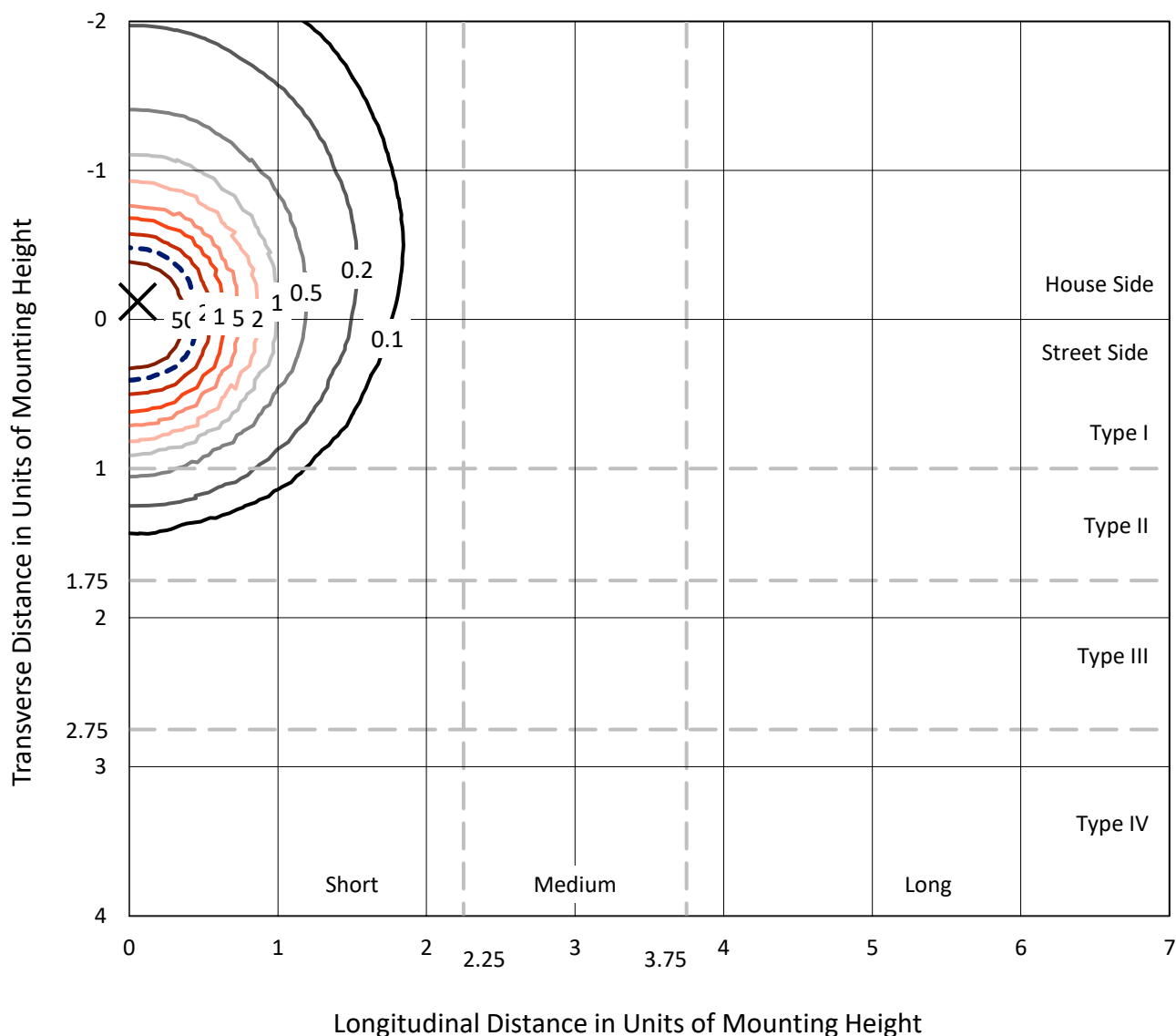
REPORT NUMBER: P637595

CATALOG NUMBER: IFLD-M-SA4C-730-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

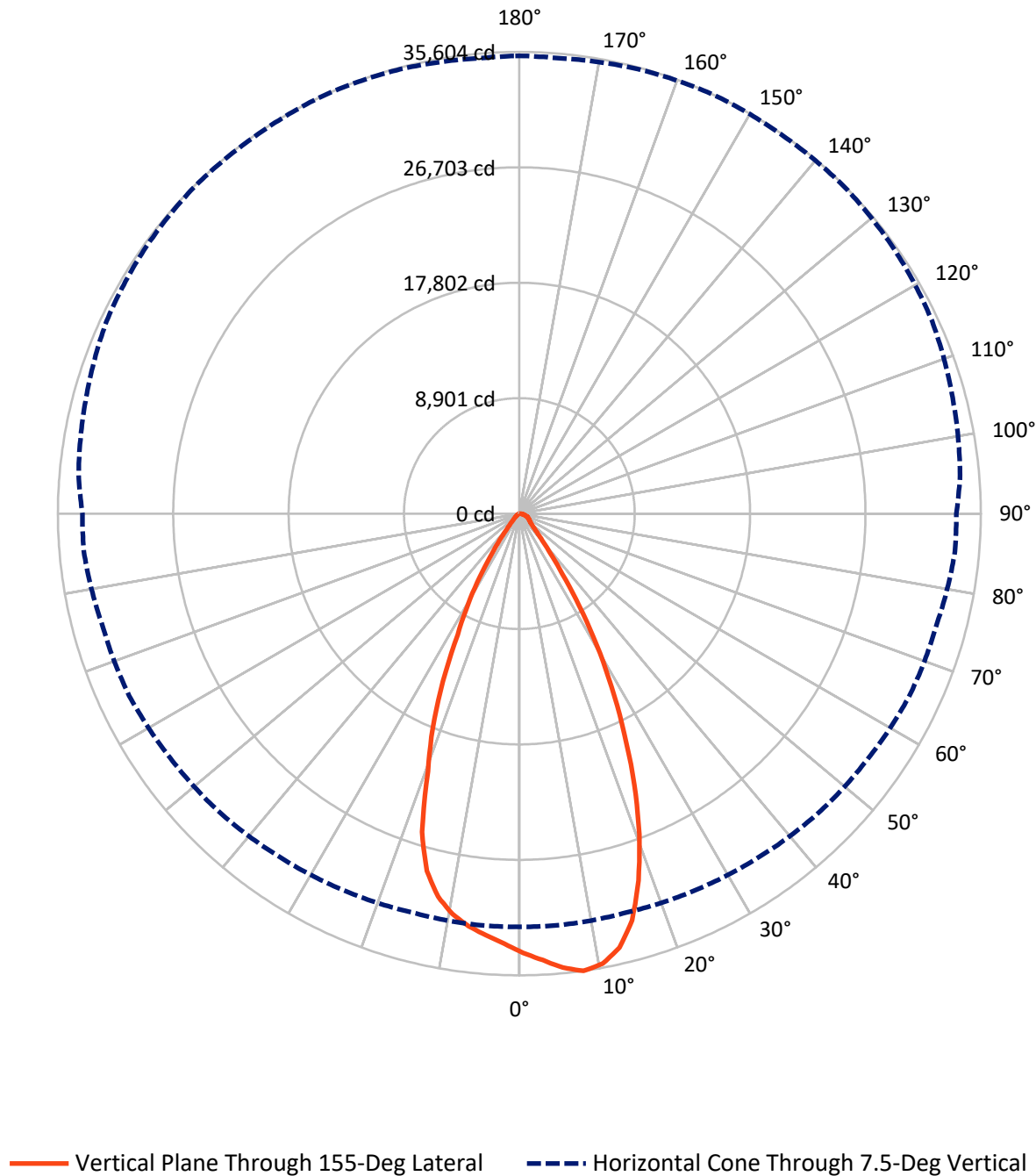


Based on 20 foot mounting height. Maximum calculated value = 86.1 fc

Type I - Short - N/A

REPORT NUMBER: P637595
CATALOG NUMBER: IFLD-M-SA4C-730-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P637595

CATALOG NUMBER: IFLD-M-SA4C-730-U-55-VI

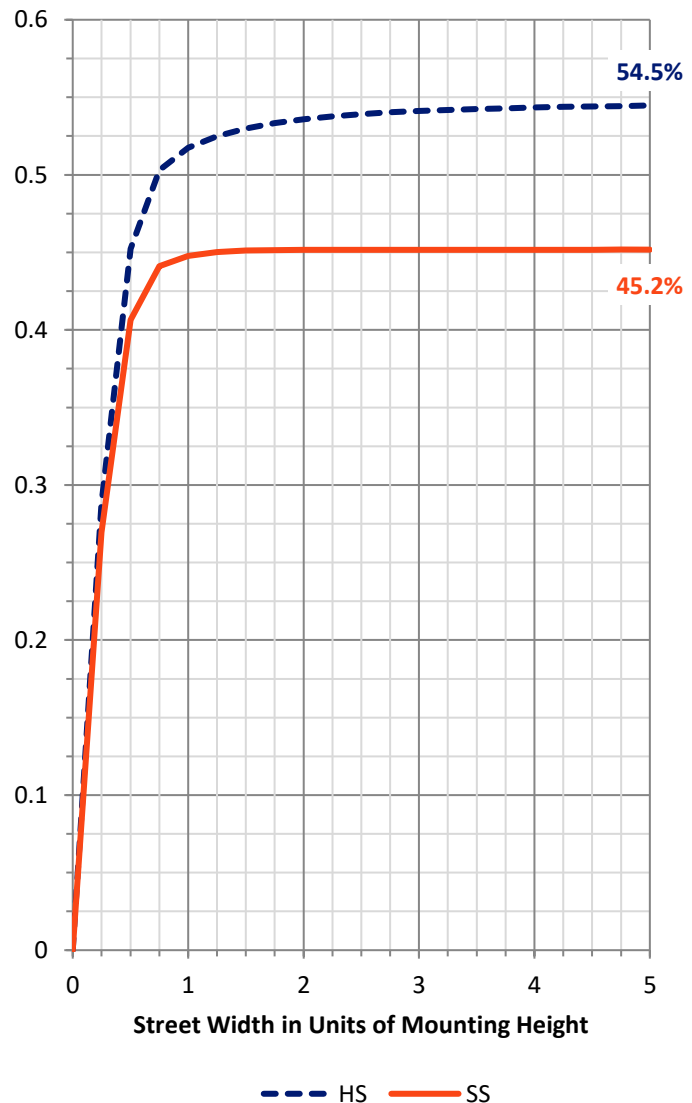
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13425.2	0.0	13425.2
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	10894.2	0.0	10894.2
	% Fixture	44.8	0.0	44.8
Total	Lumens	24319.4	0.0	24319.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3230.6	13.3
10°-20°	8376.9	34.4
20°-30°	7675.6	31.6
30°-40°	3100.9	12.8
40°-50°	909.7	3.7
50°-60°	508.6	2.1
60°-70°	308.9	1.3
70°-80°	157.0	0.6
80°-90°	51.3	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°	24319.4	100.0
0°-180°	24319.4	100.0

Coefficient of Utilization



REPORT NUMBER: P637595

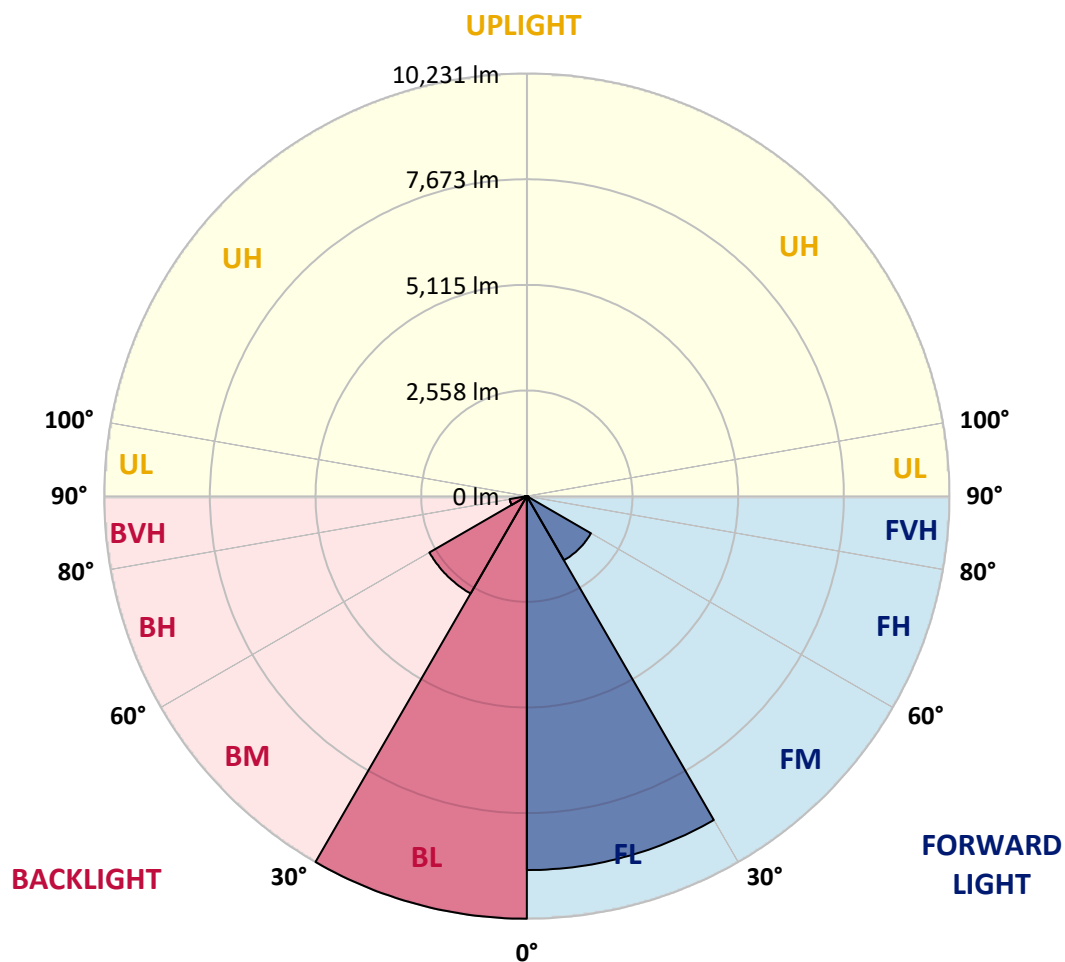
CATALOG NUMBER: IFLD-M-SA4C-730-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9052.3	37.2			
FM	(30°-60°)	1794.0	7.4			
FH	(60°-80°)	43.4	0.2			G0/660
FVH	(80°-90°)	4.4	0.0			G0/10
BL	(0°-30°)	10230.7	42.1	B5		
BM	(30°-60°)	2725.2	11.2	B3/5000		
BH	(60°-80°)	422.4	1.7	B1/500		G1/500
BVH	(80°-90°)	46.9	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



REPORT NUMBER: P637595

CATALOG NUMBER: IFLD-M-SA4C-730-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	33878.9	33878.9	33878.9	33878.9	33878.9	33878.9	33878.9	33878.9	33878.9	33878.9
2.5°	33144.1	33256.3	33032.0	33180.6	33295.6	33570.4	33592.8	33688.2	33721.8	33971.4
5°	32516.0	32602.9	32420.6	32619.7	32782.4	33026.4	33214.3	33477.9	33623.7	33918.1
7.5°	31862.6	31882.2	31845.8	32056.1	32300.0	32636.6	32869.3	33214.3	33304.0	33724.6
10°	31071.8	30928.7	30998.8	31307.3	31671.9	32187.9	32347.7	32692.7	32852.5	33281.6
12.5°	29809.8	29882.7	29795.8	30188.4	30491.3	31077.4	31245.6	31593.4	31899.0	32277.6
15°	28031.9	27989.8	28166.5	28472.2	28800.3	29265.8	29537.8	29916.4	30149.1	30541.7
17.5°	24035.7	24178.8	24907.9	25673.5	26346.5	26890.5	27215.8	27529.9	27698.2	28124.4
20°	20757.5	20578.0	20676.2	21108.0	23023.4	23856.3	24198.4	24274.1	24344.2	24680.7
22.5°	17092.3	17033.4	17361.5	17846.6	18300.9	20221.9	20687.4	20510.7	20656.6	20973.4
25°	12692.3	12989.6	13281.2	14212.2	14801.2	15743.4	16626.8	16705.3	16758.6	16957.7
27.5°	10331.1	10227.3	10221.7	10482.5	11351.8	12137.1	12888.6	13062.5	13031.6	13222.3
30°	8121.3	8087.6	7969.9	8031.5	7944.6	8642.9	8996.2	9711.3	9672.1	9677.7
32.5°	5858.2	5732.0	5684.3	5776.9	5687.1	5622.6	5931.1	6738.8	6724.7	6780.8
35°	3544.6	3527.8	3567.1	3648.4	3468.9	3463.3	3527.8	4287.8	4380.3	4470.1
37.5°	1957.4	1940.6	1971.4	2271.5	2212.6	2159.3	2176.1	2577.2	2843.6	2910.9
40°	1290.0	1287.2	1309.6	1362.9	1463.9	1444.2	1452.6	1632.1	1884.5	1943.4
42.5°	863.7	866.5	880.6	942.2	956.3	1057.2	1040.4	1082.5	1318.0	1368.5
45°	689.9	687.1	695.5	667.4	684.3	788.0	799.2	802.0	1003.9	1034.8
47.5°	544.0	544.0	552.4	516.0	507.6	572.1	631.0	639.4	802.0	844.1
50°	381.4	381.4	423.5	406.6	426.3	445.9	510.4	518.8	656.2	701.1
52.5°	280.4	286.0	291.6	294.5	359.0	356.1	412.2	451.5	496.4	574.9
55°	213.1	218.7	204.7	218.7	266.4	297.3	308.5	364.6	395.4	482.3
57.5°	140.2	154.2	143.0	168.3	179.5	230.0	246.8	300.1	319.7	395.4
60°	19.6	22.4	36.5	117.8	126.2	151.4	190.7	238.4	258.0	322.5
62.5°	2.8	2.8	8.4	19.6	84.1	101.0	143.0	165.5	190.7	241.2
65°	0.0	0.0	2.8	5.6	16.8	58.9	72.9	89.7	131.8	173.9
67.5°	0.0	0.0	2.8	5.6	8.4	19.6	30.8	58.9	75.7	120.6
70°	0.0	0.0	2.8	5.6	8.4	11.2	16.8	22.4	44.9	70.1
72.5°	0.0	0.0	2.8	5.6	8.4	11.2	14.0	16.8	19.6	44.9
75°	0.0	0.0	2.8	5.6	8.4	14.0	16.8	16.8	16.8	19.6
77.5°	0.0	0.0	2.8	5.6	11.2	16.8	19.6	16.8	14.0	14.0
80°	0.0	0.0	2.8	8.4	14.0	19.6	22.4	16.8	11.2	8.4
82.5°	0.0	0.0	2.8	8.4	14.0	19.6	22.4	19.6	11.2	8.4
85°	0.0	0.0	2.8	8.4	11.2	14.0	22.4	19.6	11.2	5.6
87.5°	0.0	0.0	0.0	2.8	2.8	5.6	11.2	8.4	5.6	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P637595

CATALOG NUMBER: IFLD-M-SA4C-730-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
33878.9	0°	33878.9	33878.9	33878.9	33878.9	33878.9	33878.9	33878.9	33878.9	33878.9
33965.8	2.5°	34218.2	34344.4	34565.9	34627.6	34818.3	34599.6	34479.0	34490.2	34229.4
33881.7	5°	34218.2	34507.0	34894.0	35079.1	35219.3	35208.1	35177.3	35098.8	34908.1
33713.4	7.5°	34128.5	34599.6	35132.4	35379.2	35547.4	35533.4	35603.5	35477.3	35244.6
33413.4	10°	33839.6	34249.0	34905.3	35107.2	35379.2	35384.8	35297.9	35323.1	34908.1
32316.9	12.5°	32931.0	33250.7	33825.6	34055.5	34386.5	34439.7	34344.4	34307.9	33915.3
30519.3	15°	31172.7	31357.8	31935.5	32165.4	32493.5	32448.7	32544.0	32504.8	32159.8
28090.8	17.5°	28601.2	28660.1	29265.8	29459.3	29767.8	29888.3	29745.3	29927.6	29630.3
24739.6	20°	24913.5	25230.4	25911.8	26209.1	26388.6	26604.5	26416.6	26621.3	26273.6
20673.4	22.5°	21172.5	21360.4	21977.4	22406.4	22740.2	22782.2	22712.1	22855.1	22386.8
17089.5	25°	17086.7	17397.9	17885.9	18446.8	18774.9	18976.8	18794.5	18887.0	18811.3
13253.2	27.5°	13477.5	13755.1	14122.5	14540.4	15033.9	15297.5	15151.7	15308.7	14938.6
9882.4	30°	9890.8	10031.0	10446.1	10889.1	11430.4	11750.1	11764.1	11923.9	11705.2
6923.8	32.5°	6974.3	7097.7	7352.9	7647.4	8163.3	8519.5	8463.4	8485.8	8351.2
4512.1	35°	4534.6	4700.0	4882.3	5022.5	5333.8	5726.4	5695.6	5667.5	5575.0
2967.0	37.5°	3031.5	3096.0	3196.9	3323.1	3525.0	3771.8	3853.1	3752.2	3712.9
2002.3	40°	2050.0	2162.1	2229.4	2324.8	2420.1	2627.6	2683.7	2664.1	2624.8
1402.2	42.5°	1455.4	1542.4	1626.5	1719.0	1769.5	1898.5	2007.9	1977.0	1960.2
1065.6	45°	1104.9	1183.4	1281.6	1351.7	1402.2	1477.9	1581.6	1592.8	1567.6
855.3	47.5°	886.2	956.3	1034.8	1121.7	1180.6	1228.3	1318.0	1351.7	1334.9
720.7	50°	751.6	804.8	880.6	967.5	1032.0	1074.1	1152.6	1189.0	1177.8
602.9	52.5°	639.4	703.9	774.0	846.9	925.4	967.5	1040.4	1093.7	1085.3
499.2	55°	530.0	614.1	687.1	760.0	849.7	891.8	956.3	1026.4	1012.4
423.5	57.5°	462.7	532.8	608.5	678.6	774.0	830.1	889.0	961.9	959.1
347.7	60°	387.0	457.1	541.2	600.1	701.1	779.6	832.9	908.6	914.2
263.6	62.5°	308.5	395.4	459.9	541.2	633.8	726.3	776.8	852.5	880.6
201.9	65°	230.0	325.3	398.2	479.5	566.5	670.2	715.1	790.8	818.9
145.8	67.5°	171.1	244.0	336.5	406.6	504.8	594.5	647.8	717.9	737.5
86.9	70°	129.0	187.9	280.4	342.1	443.1	516.0	569.3	622.6	647.8
58.9	72.5°	75.7	140.2	221.5	294.5	381.4	443.1	482.3	524.4	541.2
28.0	75°	53.3	106.6	173.9	244.0	308.5	359.0	395.4	431.9	448.7
14.0	77.5°	28.0	78.5	137.4	196.3	241.2	283.2	319.7	347.7	359.0
11.2	80°	16.8	56.1	112.2	154.2	185.1	221.5	258.0	277.6	274.8
8.4	82.5°	11.2	44.9	81.3	112.2	134.6	162.7	187.9	201.9	201.9
5.6	85°	8.4	30.8	56.1	86.9	89.7	112.2	117.8	131.8	134.6
5.6	87.5°	5.6	19.6	30.8	50.5	47.7	58.9	61.7	70.1	75.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
33878.9
34019.1
34969.8
35297.9
34787.5
33825.6
32269.2
29557.4
26245.5
22322.3
18763.6
15033.9
11744.5
8427.0
5493.6
3704.5
2630.4
1946.2
1564.8
1326.4
1175.0
1079.7
1012.4
956.3
914.2
877.7
816.1
737.5
642.2
535.6
443.1
356.1
272.0
199.1
131.8
72.9
0.0

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