

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: P637627

Luminaire Tested: **IFLD-L-SA7A-735-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637627
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-735-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28999.1 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 217.6
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



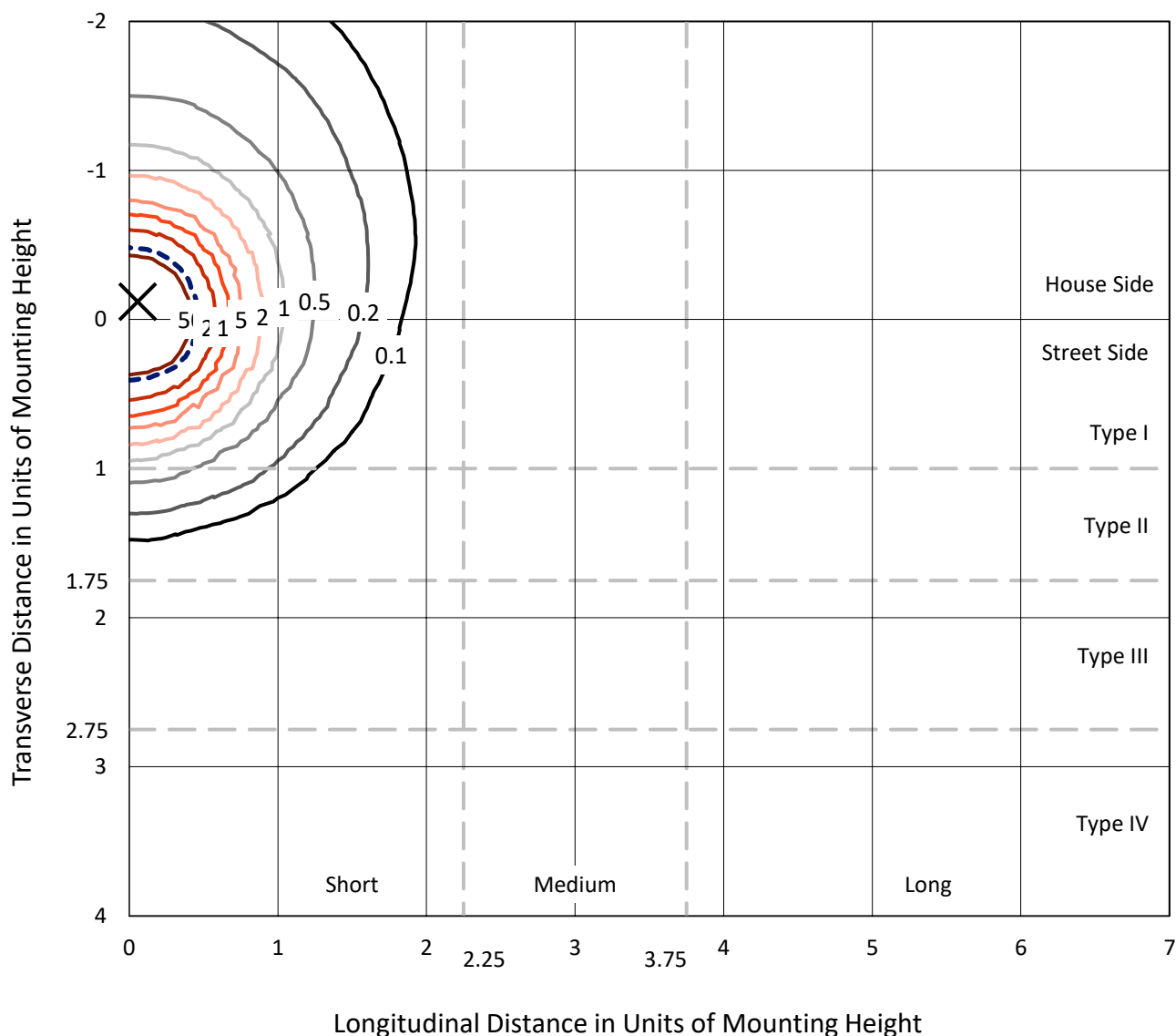
REPORT NUMBER: P637627

CATALOG NUMBER: IFLD-L-SA7A-735-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



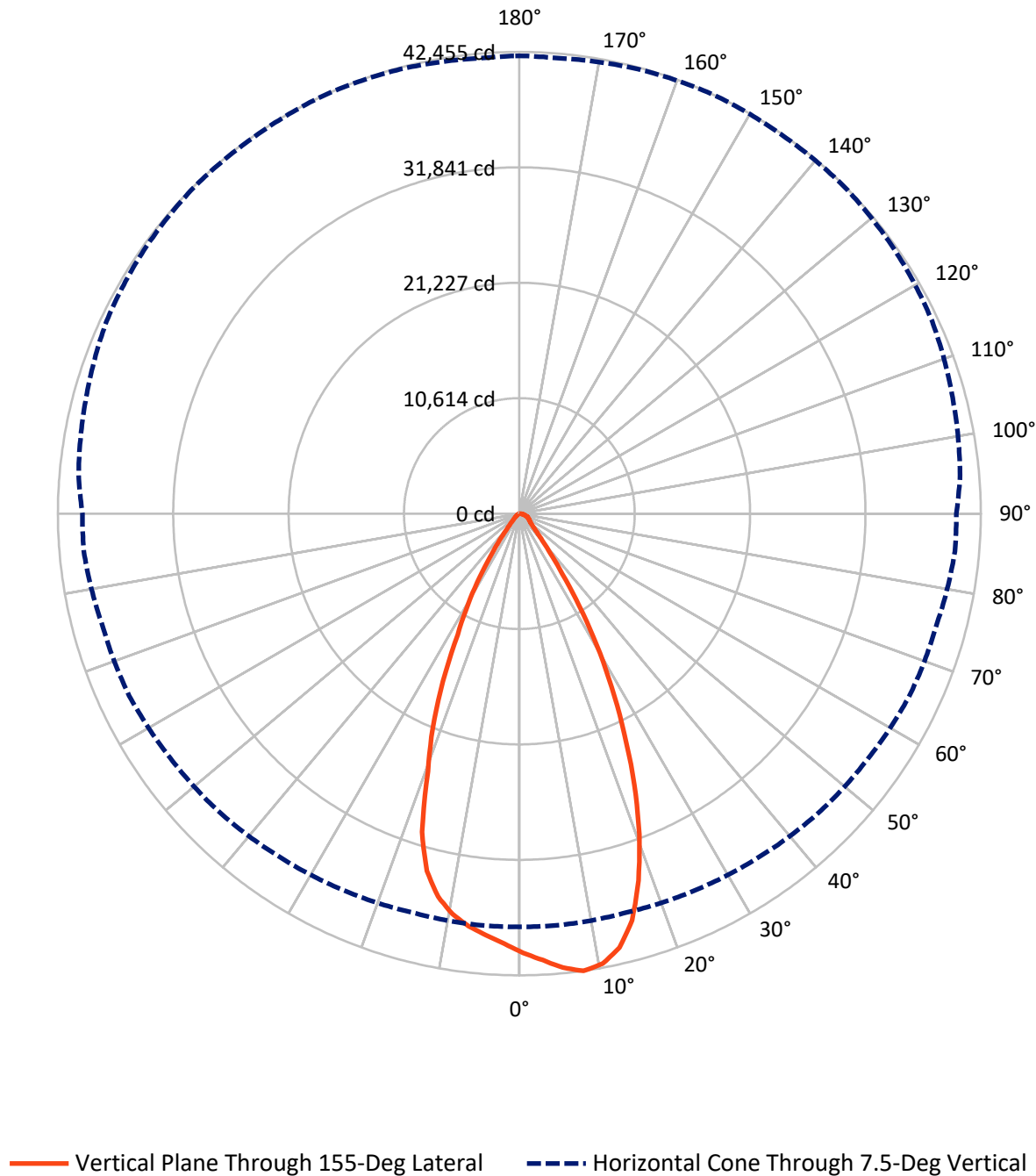
Based on 20 foot mounting height. Maximum calculated value = 102.7 fc

Type I - Short - N/A

REPORT NUMBER: P637627

CATALOG NUMBER: IFLD-L-SA7A-735-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P637627

CATALOG NUMBER: IFLD-L-SA7A-735-U-55-VI

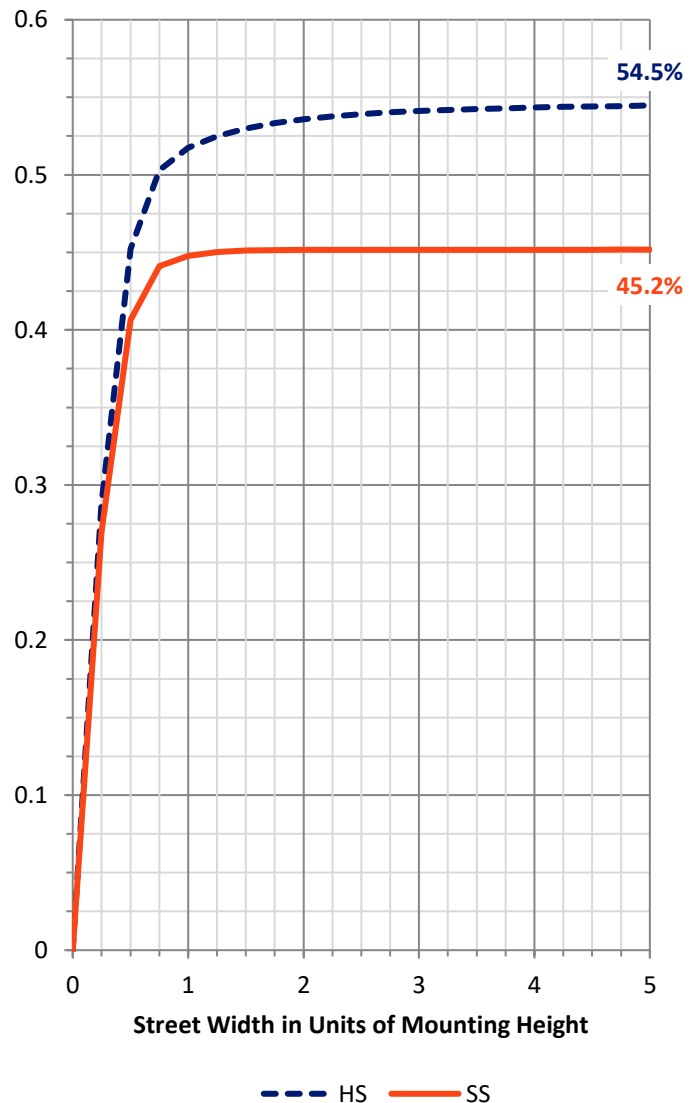
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16008.6	0.0	16008.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	12990.5	0.0	12990.5
	% Fixture	44.8	0.0	44.8
Total	Lumens	28999.1	0.0	28999.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3852.2	13.3
10°-20°	9988.8	34.4
20°-30°	9152.5	31.6
30°-40°	3697.6	12.8
40°-50°	1084.7	3.7
50°-60°	606.5	2.1
60°-70°	368.4	1.3
70°-80°	187.2	0.6
80°-90°	61.2	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°	28999.1	100.0
0°-180°	28999.1	100.0

Coefficient of Utilization



REPORT NUMBER: P637627

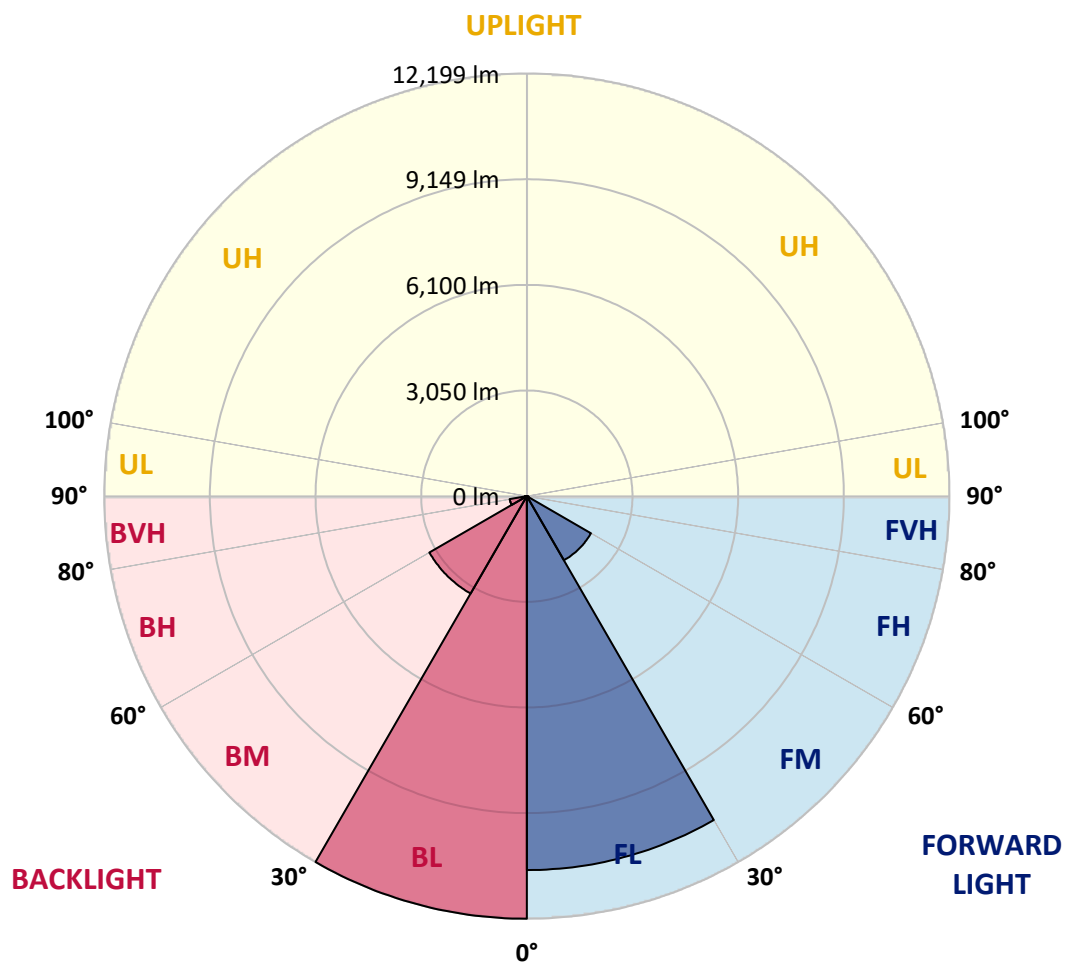
CATALOG NUMBER: IFLD-L-SA7A-735-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	10794.2	37.2			
FM	(30°-60°)	2139.2	7.4			
FH	(60°-80°)	51.8	0.2			G0/660
FVH	(80°-90°)	5.3	0.0			G0/10
BL	(0°-30°)	12199.3	42.1	B5		
BM	(30°-60°)	3249.6	11.2	B3/5000		
BH	(60°-80°)	503.7	1.7	B2/1000		G2/1000
BVH	(80°-90°)	55.9	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-G2

Type I Short



REPORT NUMBER: P637627

CATALOG NUMBER: IFLD-L-SA7A-735-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	40398.0	40398.0	40398.0	40398.0	40398.0	40398.0	40398.0	40398.0	40398.0	40398.0
2.5°	39521.8	39655.6	39388.1	39565.3	39702.4	40030.1	40056.9	40170.6	40210.7	40508.3
5°	38772.8	38876.5	38659.1	38896.5	39090.5	39381.4	39605.4	39919.8	40093.7	40444.8
7.5°	37993.7	38017.1	37973.6	38224.4	38515.3	38916.6	39194.1	39605.4	39712.5	40214.0
10°	37050.7	36880.1	36963.7	37331.6	37766.3	38381.6	38572.2	38983.5	39174.1	39685.7
12.5°	35545.9	35632.9	35529.2	35997.4	36358.5	37057.4	37258.0	37672.7	38037.1	38488.6
15°	33425.9	33375.7	33586.4	33950.9	34342.1	34897.2	35221.6	35673.0	35950.5	36418.7
17.5°	28660.8	28831.3	29700.7	30613.6	31416.2	32064.9	32452.8	32827.3	33027.9	33536.2
20°	24751.7	24537.7	24654.8	25169.7	27453.6	28446.8	28854.7	28945.0	29028.6	29429.9
22.5°	20381.2	20311.0	20702.2	21280.7	21822.5	24113.0	24668.1	24457.5	24631.4	25009.2
25°	15134.6	15489.1	15836.8	16947.0	17649.2	18772.8	19826.1	19919.8	19983.3	20220.7
27.5°	12319.0	12195.3	12188.6	12499.6	13536.2	14472.5	15368.7	15576.0	15539.2	15766.6
30°	9684.0	9643.9	9503.4	9577.0	9473.3	10306.0	10727.3	11580.0	11533.2	11539.9
32.5°	6985.5	6835.0	6778.1	6888.5	6781.5	6704.6	7072.4	8035.5	8018.7	8085.6
35°	4226.7	4206.7	4253.5	4350.4	4136.4	4129.7	4206.7	5112.9	5223.2	5330.2
37.5°	2334.1	2314.0	2350.8	2708.6	2638.4	2574.8	2594.9	3073.1	3390.7	3471.0
40°	1538.2	1534.9	1561.6	1625.1	1745.5	1722.1	1732.2	1946.2	2247.1	2317.3
42.5°	1029.9	1033.3	1050.0	1123.6	1140.3	1260.7	1240.6	1290.8	1571.6	1631.8
45°	822.6	819.3	829.3	795.9	815.9	939.6	953.0	956.4	1197.1	1233.9
47.5°	648.7	648.7	658.8	615.3	605.3	682.2	752.4	762.4	956.4	1006.5
50°	454.8	454.8	504.9	484.9	508.3	531.7	608.6	618.6	782.5	836.0
52.5°	334.4	341.1	347.8	351.1	428.0	424.7	491.6	538.4	591.9	685.5
55°	254.1	260.8	244.1	260.8	317.7	354.5	367.8	434.7	471.5	575.2
57.5°	167.2	183.9	170.5	200.6	214.0	274.2	294.3	357.8	381.2	471.5
60°	23.4	26.8	43.5	140.4	150.5	180.6	227.4	284.2	307.6	384.6
62.5°	3.3	3.3	10.0	23.4	100.3	120.4	170.5	197.3	227.4	287.6
65°	0.0	0.0	3.3	6.7	20.1	70.2	86.9	107.0	157.2	207.3
67.5°	0.0	0.0	3.3	6.7	10.0	23.4	36.8	70.2	90.3	143.8
70°	0.0	0.0	3.3	6.7	10.0	13.4	20.1	26.8	53.5	83.6
72.5°	0.0	0.0	3.3	6.7	10.0	13.4	16.7	20.1	23.4	53.5
75°	0.0	0.0	3.3	6.7	10.0	16.7	20.1	20.1	20.1	23.4
77.5°	0.0	0.0	3.3	6.7	13.4	20.1	23.4	20.1	16.7	16.7
80°	0.0	0.0	3.3	10.0	16.7	23.4	26.8	20.1	13.4	10.0
82.5°	0.0	0.0	3.3	10.0	16.7	23.4	26.8	23.4	13.4	10.0
85°	0.0	0.0	3.3	10.0	13.4	16.7	26.8	23.4	13.4	6.7
87.5°	0.0	0.0	0.0	3.3	3.3	6.7	13.4	10.0	6.7	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P637627

CATALOG NUMBER: IFLD-L-SA7A-735-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
40398.0	0°	40398.0	40398.0	40398.0	40398.0	40398.0	40398.0	40398.0	40398.0	40398.0
40501.6	2.5°	40802.6	40953.0	41217.2	41290.8	41518.2	41257.3	41113.6	41126.9	40815.9
40401.3	5°	40802.6	41147.0	41608.5	41829.2	41996.4	41983.0	41946.2	41852.6	41625.2
40200.7	7.5°	40695.6	41257.3	41892.7	42187.0	42387.6	42370.9	42454.5	42304.0	42026.4
39842.9	10°	40351.1	40839.4	41621.8	41862.6	42187.0	42193.6	42090.0	42120.1	41625.2
38535.4	12.5°	39267.7	39648.9	40334.4	40608.6	41003.2	41066.7	40953.0	40909.6	40441.4
36391.9	15°	37171.1	37391.8	38080.6	38354.8	38746.1	38692.6	38806.2	38759.4	38348.1
33496.1	17.5°	34104.7	34174.9	34897.2	35127.9	35495.8	35639.6	35469.0	35686.4	35331.9
29500.1	20°	29707.4	30085.3	30897.9	31252.3	31466.3	31723.8	31499.8	31743.9	31329.2
24651.4	22.5°	25246.6	25470.7	26206.3	26718.0	27115.9	27166.0	27082.4	27253.0	26694.6
20377.9	25°	20374.5	20745.7	21327.6	21996.3	22387.6	22628.3	22411.0	22521.3	22431.0
15803.4	27.5°	16070.9	16402.0	16840.0	17338.3	17926.8	18241.1	18067.2	18254.5	17813.1
11784.0	30°	11794.0	11961.2	12456.1	12984.5	13629.8	14011.0	14027.8	14218.4	13957.5
8256.2	32.5°	8316.3	8463.5	8767.8	9118.9	9734.2	10158.8	10092.0	10118.7	9958.2
5380.4	35°	5407.1	5604.4	5821.8	5989.0	6360.1	6828.3	6791.5	6758.1	6647.7
3537.9	37.5°	3614.8	3691.7	3812.1	3962.6	4203.3	4497.6	4594.6	4474.2	4427.4
2387.6	40°	2444.4	2578.2	2658.4	2772.1	2885.8	3133.3	3200.1	3176.7	3129.9
1672.0	42.5°	1735.5	1839.2	1939.5	2049.8	2110.0	2263.8	2394.3	2357.5	2337.4
1270.7	45°	1317.5	1411.1	1528.2	1611.8	1672.0	1762.2	1886.0	1899.3	1869.3
1019.9	47.5°	1056.7	1140.3	1233.9	1337.6	1407.8	1464.6	1571.6	1611.8	1591.7
859.4	50°	896.2	959.7	1050.0	1153.7	1230.6	1280.7	1374.4	1417.8	1404.4
718.9	52.5°	762.4	839.3	922.9	1009.9	1103.5	1153.7	1240.6	1304.1	1294.1
595.2	55°	632.0	732.3	819.3	906.2	1013.2	1063.4	1140.3	1223.9	1207.2
504.9	57.5°	551.7	635.3	725.6	809.2	922.9	989.8	1060.0	1147.0	1143.6
414.6	60°	461.5	545.1	645.4	715.6	836.0	929.6	993.1	1083.4	1090.1
314.3	62.5°	367.8	471.5	548.4	645.4	755.7	866.1	926.3	1016.6	1050.0
240.8	65°	274.2	387.9	474.8	571.8	675.5	799.2	852.7	943.0	976.4
173.9	67.5°	204.0	290.9	401.3	484.9	601.9	708.9	772.4	856.0	879.5
103.7	70°	153.8	224.0	334.4	408.0	528.3	615.3	678.8	742.4	772.4
70.2	72.5°	90.3	167.2	264.2	351.1	454.8	528.3	575.2	625.3	645.4
33.4	75°	63.5	127.1	207.3	290.9	367.8	428.0	471.5	515.0	535.0
16.7	77.5°	33.4	93.6	163.9	234.1	287.6	337.7	381.2	414.6	428.0
13.4	80°	20.1	66.9	133.8	183.9	220.7	264.2	307.6	331.0	327.7
10.0	82.5°	13.4	53.5	97.0	133.8	160.5	193.9	224.0	240.8	240.8
6.7	85°	10.0	36.8	66.9	103.7	107.0	133.8	140.4	157.2	160.5
6.7	87.5°	6.7	23.4	36.8	60.2	56.8	70.2	73.6	83.6	90.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
40398.0
40565.2
41698.7
42090.0
41481.4
40334.4
38478.5
35245.0
31295.8
26617.6
22374.2
17926.8
14004.4
10048.5
6550.7
4417.3
3136.6
2320.7
1865.9
1581.7
1401.1
1287.4
1207.2
1140.3
1090.1
1046.6
973.1
879.5
765.8
638.7
528.3
424.7
324.4
237.4
157.2
86.9
0.0

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