

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: P637661

Luminaire Tested: **IFLD-L-SA8A-740-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637661
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-740-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32178.3 lumens
Efficiency: N/A
Efficacy: 129.9 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): 247.8
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



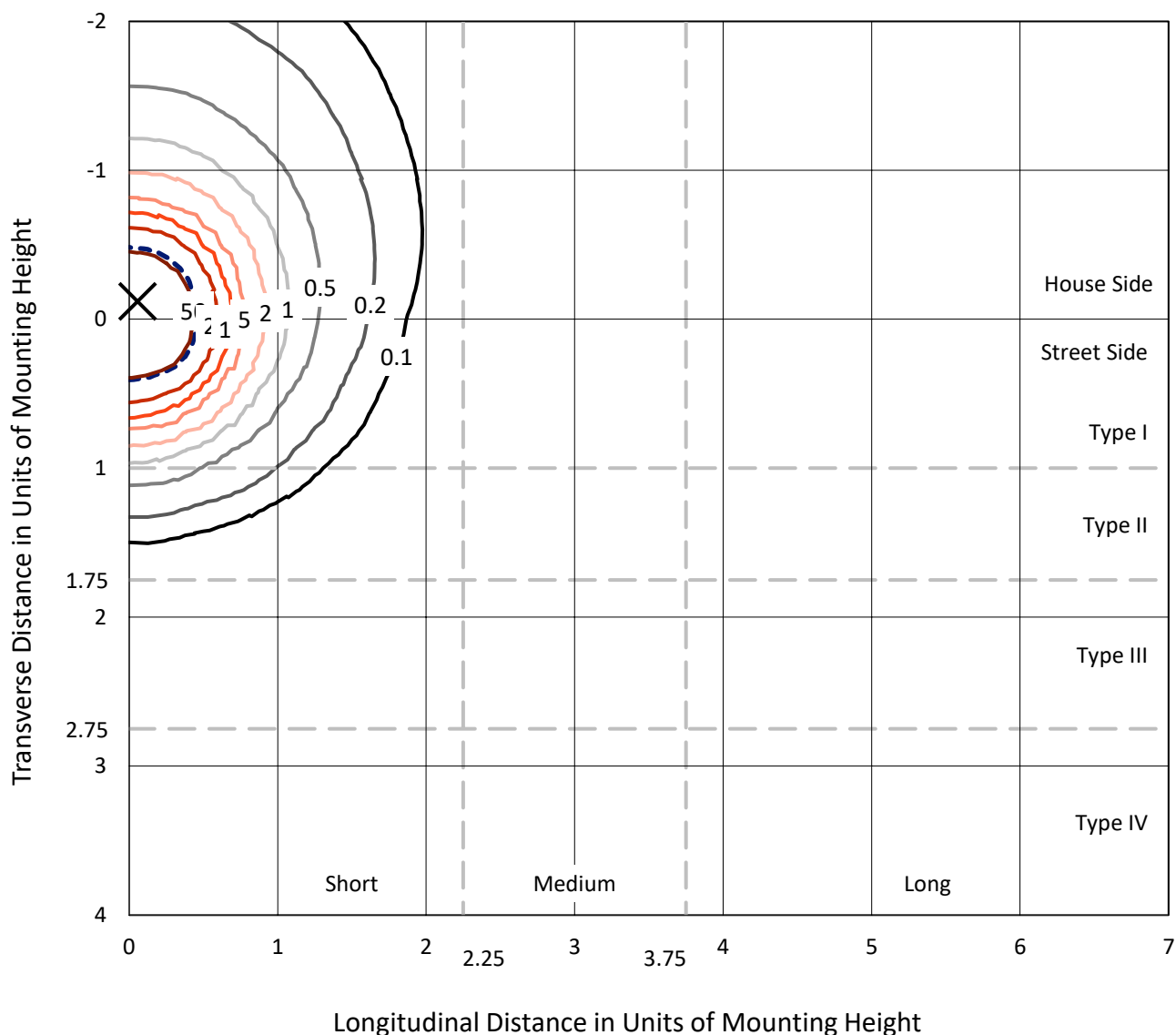
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

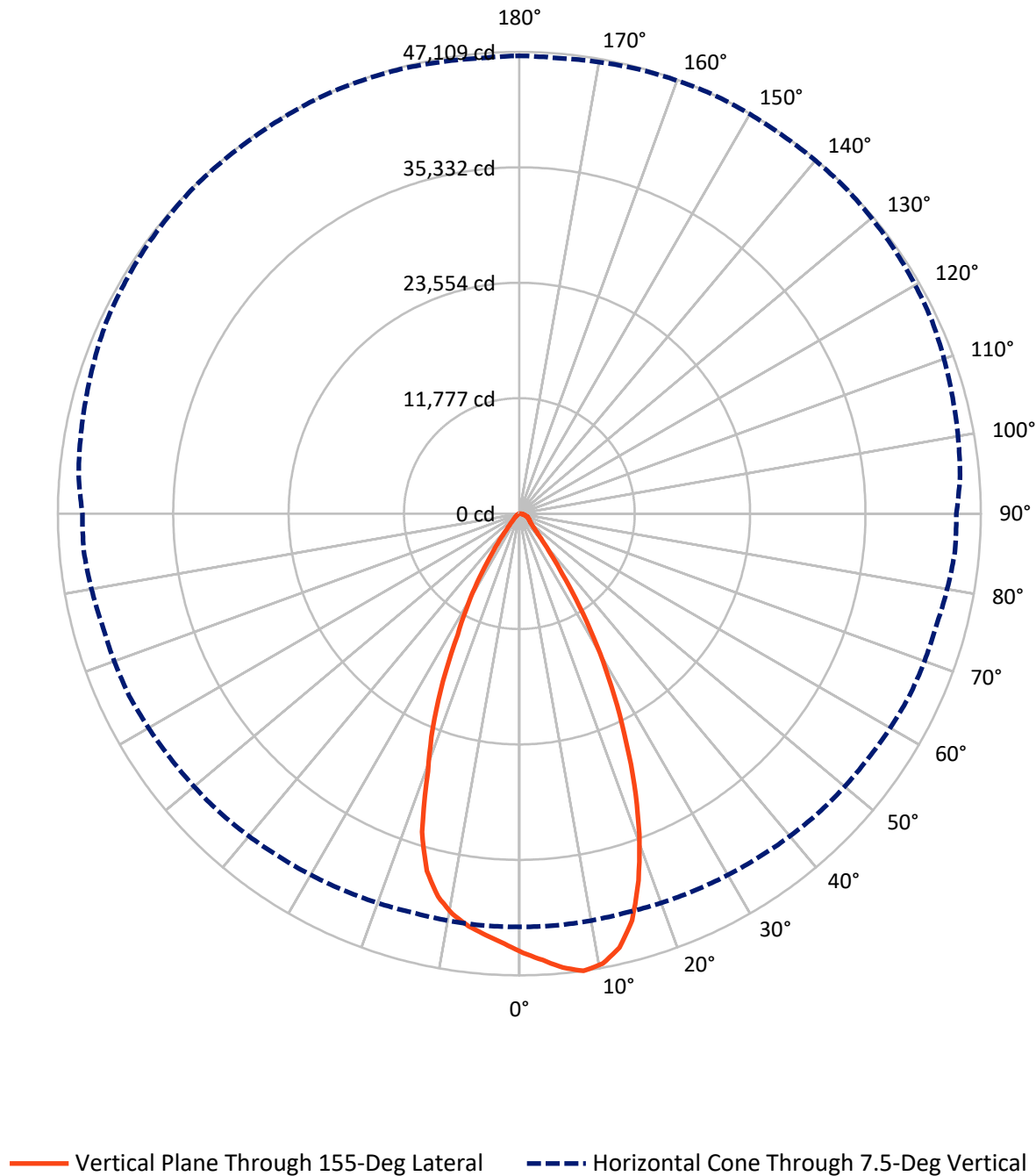


Based on 20 foot mounting height. Maximum calculated value = 113.9 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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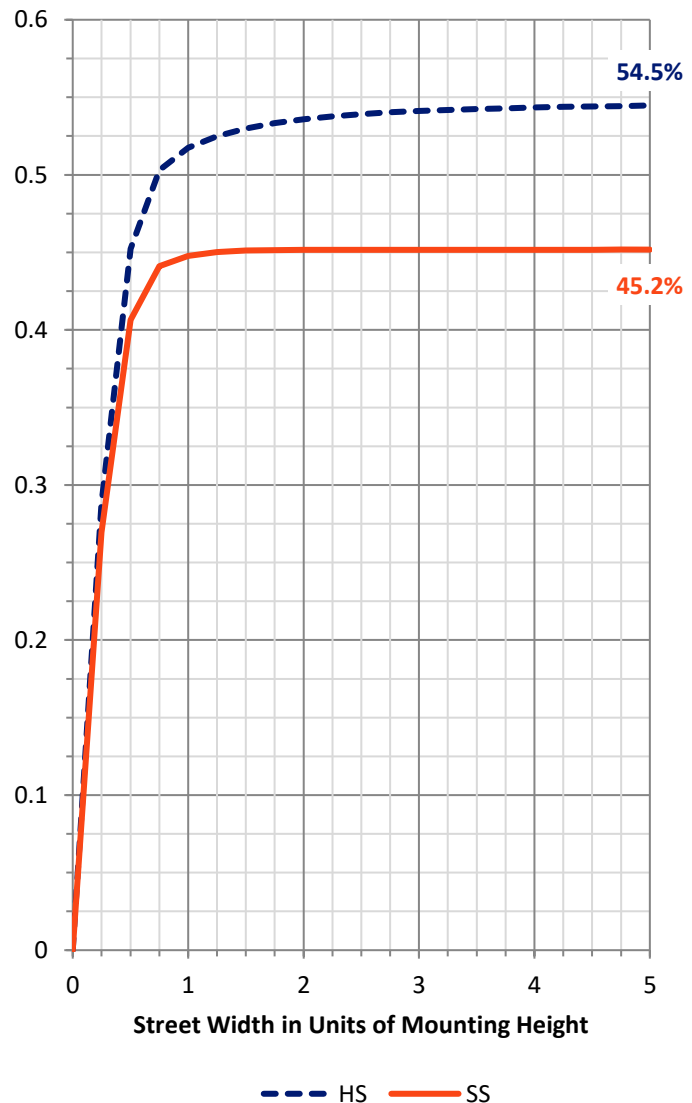
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17763.6	0.0	17763.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	14414.7	0.0	14414.7
	% Fixture	44.8	0.0	44.8
Total	Lumens	32178.3	0.0	32178.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4274.5	13.3
10°-20°	11083.9	34.4
20°-30°	10155.9	31.6
30°-40°	4103.0	12.8
40°-50°	1203.6	3.7
50°-60°	673.0	2.1
60°-70°	408.7	1.3
70°-80°	207.7	0.6
80°-90°	67.9	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°	32178.3	100.0
0°-180°	32178.3	100.0

Coefficient of Utilization



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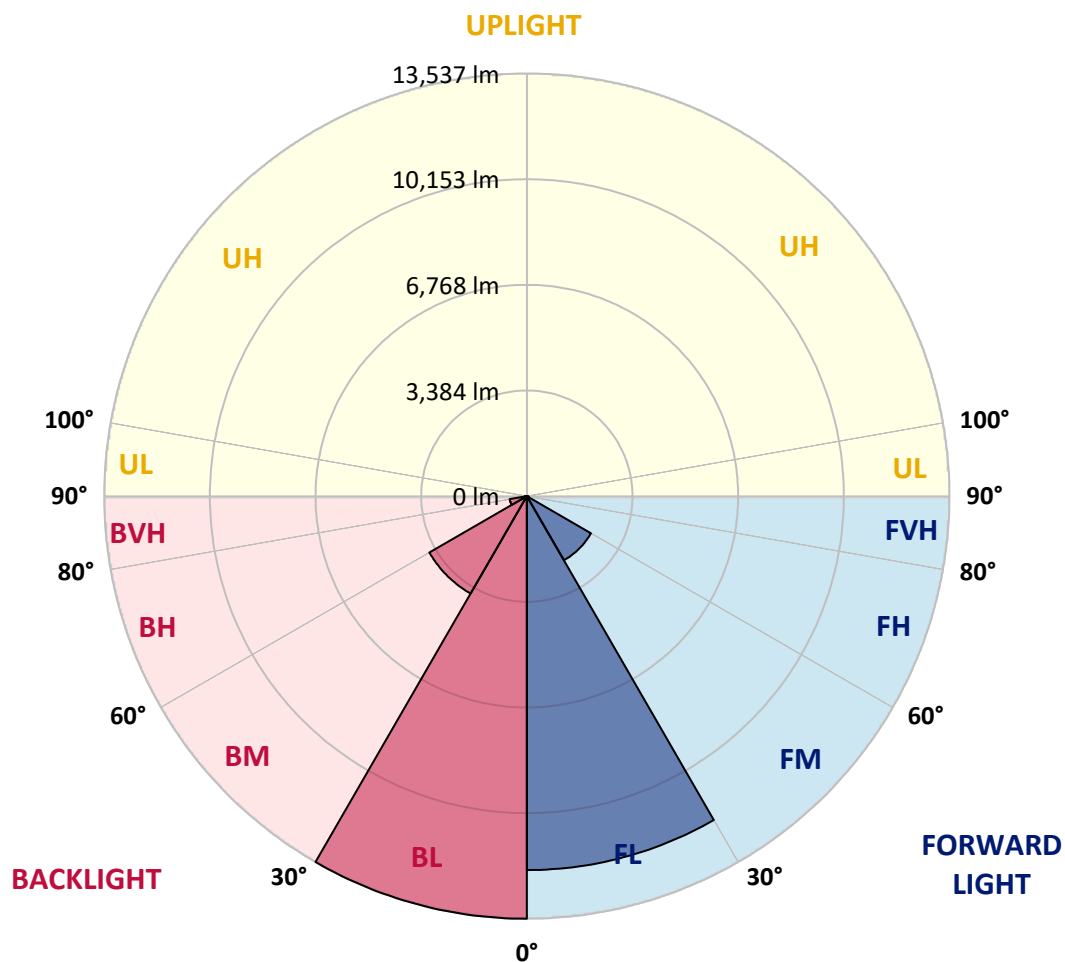
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	11977.6	37.2			
FM	(30°-60°)	2373.7	7.4			
FH	(60°-80°)	57.5	0.2			G0/660
FVH	(80°-90°)	5.9	0.0			G0/10
BL	(0°-30°)	13536.8	42.1	B5		
BM	(30°-60°)	3605.9	11.2	B3/5000		
BH	(60°-80°)	558.9	1.7	B2/1000		G2/1000
BVH	(80°-90°)	62.0	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°	44826.9	44826.9	44826.9	44826.9	44826.9	44826.9	44826.9	44826.9	44826.9	44826.9
2.5°	43854.7	44003.1	43706.3	43903.0	44055.1	44418.7	44448.4	44574.6	44619.1	44949.3
5°	43023.6	43138.6	42897.4	43160.8	43376.1	43698.9	43947.5	44296.3	44489.2	44878.8
7.5°	42159.0	42185.0	42136.7	42415.0	42737.8	43183.1	43491.1	43947.5	44066.2	44622.8
10°	41112.6	40923.4	41016.2	41424.3	41906.7	42589.4	42800.9	43257.3	43468.8	44036.5
12.5°	39442.9	39539.4	39424.3	39943.8	40344.6	41120.1	41342.7	41802.8	42207.2	42708.2
15°	37090.4	37034.8	37268.5	37673.0	38107.1	38723.1	39083.0	39583.9	39891.9	40411.3
17.5°	31802.9	31992.2	32956.9	33969.9	34860.4	35580.2	36010.7	36426.2	36648.9	37212.9
20°	27465.3	27227.8	27357.7	27929.1	30463.4	31565.5	32018.1	32118.3	32211.1	32656.3
22.5°	22615.7	22537.7	22971.9	23613.8	24214.9	26756.6	27372.6	27138.8	27331.7	27751.0
25°	16793.8	17187.2	17573.1	18804.9	19584.2	20830.9	21999.7	22103.6	22174.1	22437.6
27.5°	13669.6	13532.3	13524.9	13869.9	15020.2	16059.2	17053.6	17283.6	17242.8	17495.1
30°	10745.7	10701.2	10545.3	10626.9	10511.9	11435.8	11903.4	12849.6	12797.6	12805.0
32.5°	7751.3	7584.3	7521.2	7643.7	7524.9	7439.6	7847.8	8916.4	8897.8	8972.1
35°	4690.1	4667.8	4719.8	4827.4	4589.9	4582.5	4667.8	5673.4	5795.8	5914.6
37.5°	2589.9	2567.7	2608.5	3005.5	2927.6	2857.1	2879.4	3410.0	3762.5	3851.5
40°	1706.8	1703.1	1732.8	1803.3	1936.9	1910.9	1922.1	2159.5	2493.5	2571.4
42.5°	1142.8	1146.6	1165.1	1246.7	1265.3	1398.9	1376.6	1432.3	1743.9	1810.7
45°	912.8	909.1	920.2	883.1	905.4	1042.7	1057.5	1061.2	1328.4	1369.2
47.5°	719.8	719.8	731.0	682.7	671.6	756.9	834.9	846.0	1061.2	1116.9
50°	504.6	504.6	560.3	538.0	564.0	590.0	675.3	686.4	868.3	927.6
52.5°	371.1	378.5	385.9	389.6	474.9	471.2	545.4	597.4	656.8	760.7
55°	282.0	289.4	270.9	289.4	352.5	393.3	408.2	482.4	523.2	638.2
57.5°	185.5	204.1	189.2	222.6	237.5	304.3	326.5	397.0	423.0	523.2
60°	26.0	29.7	48.2	155.8	167.0	200.4	252.3	315.4	341.4	426.7
62.5°	3.7	3.7	11.1	26.0	111.3	133.6	189.2	218.9	252.3	319.1
65°	0.0	0.0	3.7	7.4	22.3	77.9	96.5	118.7	174.4	230.1
67.5°	0.0	0.0	3.7	7.4	11.1	26.0	40.8	77.9	100.2	159.6
70°	0.0	0.0	3.7	7.4	11.1	14.8	22.3	29.7	59.4	92.8
72.5°	0.0	0.0	3.7	7.4	11.1	14.8	18.6	22.3	26.0	59.4
75°	0.0	0.0	3.7	7.4	11.1	18.6	22.3	22.3	22.3	26.0
77.5°	0.0	0.0	3.7	7.4	14.8	22.3	26.0	22.3	18.6	18.6
80°	0.0	0.0	3.7	11.1	18.6	26.0	29.7	22.3	14.8	11.1
82.5°	0.0	0.0	3.7	11.1	18.6	26.0	29.7	26.0	14.8	11.1
85°	0.0	0.0	3.7	11.1	14.8	18.6	29.7	26.0	14.8	7.4
87.5°	0.0	0.0	0.0	3.7	3.7	7.4	14.8	11.1	7.4	3.7
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°
44826.9	0°	44826.9	44826.9	44826.9	44826.9	44826.9	44826.9	44826.9	44826.9	44826.9
44941.9	2.5°	45275.8	45442.8	45736.0	45817.6	46069.9	45780.5	45620.9	45635.8	45290.7
44830.6	5°	45275.8	45658.0	46170.1	46415.0	46600.5	46585.7	46544.8	46441.0	46188.6
44608.0	7.5°	45157.1	45780.5	46485.5	46812.0	47034.6	47016.1	47108.8	46941.9	46633.9
44210.9	10°	44774.9	45316.7	46184.9	46452.1	46812.0	46819.4	46704.4	46737.8	46188.6
42760.1	12.5°	43572.7	43995.7	44756.4	45060.6	45498.5	45569.0	45442.8	45394.6	44875.1
40381.7	15°	41246.2	41491.1	42255.5	42559.7	42993.9	42934.5	43060.7	43008.7	42552.3
37168.3	17.5°	37843.7	37921.6	38723.1	38979.1	39387.2	39546.8	39357.6	39598.7	39205.4
32734.3	20°	32964.3	33383.6	34285.3	34678.6	34916.1	35201.8	34953.2	35224.0	34763.9
27354.0	22.5°	28014.5	28263.1	29079.4	29647.1	30088.7	30144.3	30051.6	30240.8	29621.1
22612.0	25°	22608.2	23020.1	23665.7	24407.8	24842.0	25109.1	24868.0	24990.4	24890.2
17535.9	27.5°	17832.8	18200.1	18686.2	19239.1	19892.1	20240.9	20048.0	20255.8	19766.0
13075.9	30°	13087.0	13272.6	13821.7	14408.0	15124.1	15547.1	15565.7	15777.2	15487.7
9161.3	32.5°	9228.1	9391.3	9729.0	10118.6	10801.3	11272.6	11198.4	11228.1	11049.9
5970.2	35°	5999.9	6218.8	6460.0	6645.6	7057.4	7576.9	7536.1	7499.0	7376.5
3925.7	37.5°	4011.1	4096.4	4230.0	4397.0	4664.1	4990.7	5098.3	4964.7	4912.7
2649.3	40°	2712.4	2860.8	2949.9	3076.0	3202.2	3476.8	3551.0	3525.0	3473.1
1855.3	42.5°	1925.8	2040.8	2152.1	2274.6	2341.3	2512.0	2656.7	2615.9	2593.7
1410.0	45°	1461.9	1565.8	1695.7	1788.5	1855.3	1955.4	2092.7	2107.6	2074.2
1131.7	47.5°	1172.5	1265.3	1369.2	1484.2	1562.1	1625.2	1743.9	1788.5	1766.2
953.6	50°	994.4	1064.9	1165.1	1280.1	1365.5	1421.1	1525.0	1573.3	1558.4
797.8	52.5°	846.0	931.3	1024.1	1120.6	1224.5	1280.1	1376.6	1447.1	1436.0
660.5	55°	701.3	812.6	909.1	1005.6	1124.3	1179.9	1265.3	1358.1	1339.5
560.3	57.5°	612.2	705.0	805.2	897.9	1024.1	1098.3	1176.2	1272.7	1269.0
460.1	60°	512.1	604.8	716.1	794.1	927.6	1031.5	1102.0	1202.2	1209.6
348.8	62.5°	408.2	523.2	608.5	716.1	838.6	961.0	1027.8	1128.0	1165.1
267.2	65°	304.3	430.4	526.9	634.5	749.5	886.8	946.2	1046.4	1083.5
192.9	67.5°	226.3	322.8	445.3	538.0	667.9	786.6	857.1	949.9	975.9
115.0	70°	170.7	248.6	371.1	452.7	586.3	682.7	753.2	823.7	857.1
77.9	72.5°	100.2	185.5	293.1	389.6	504.6	586.3	638.2	693.9	716.1
37.1	75°	70.5	141.0	230.1	322.8	408.2	474.9	523.2	571.4	593.7
18.6	77.5°	37.1	103.9	181.8	259.7	319.1	374.8	423.0	460.1	474.9
14.8	80°	22.3	74.2	148.4	204.1	244.9	293.1	341.4	367.3	363.6
11.1	82.5°	14.8	59.4	107.6	148.4	178.1	215.2	248.6	267.2	267.2
7.4	85°	11.1	40.8	74.2	115.0	118.7	148.4	155.8	174.4	178.1
7.4	87.5°	7.4	26.0	40.8	66.8	63.1	77.9	81.6	92.8	100.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
44826.9
45012.4
46270.3
46704.4
46029.1
44756.4
42697.0
39109.0
34726.8
29535.8
24827.1
19892.1
15539.7
11150.1
7268.9
4901.6
3480.5
2575.1
2070.5
1755.1
1554.7
1428.6
1339.5
1265.3
1209.6
1161.4
1079.8
975.9
849.7
708.7
586.3
471.2
359.9
263.4
174.4
96.5
0.0

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