

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: P637547

Luminaire Tested: **IFLD-L-SA8C-722-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637547
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-722-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35055.4 lumens
Efficiency: N/A
Efficacy: 83.4 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): 420.3
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



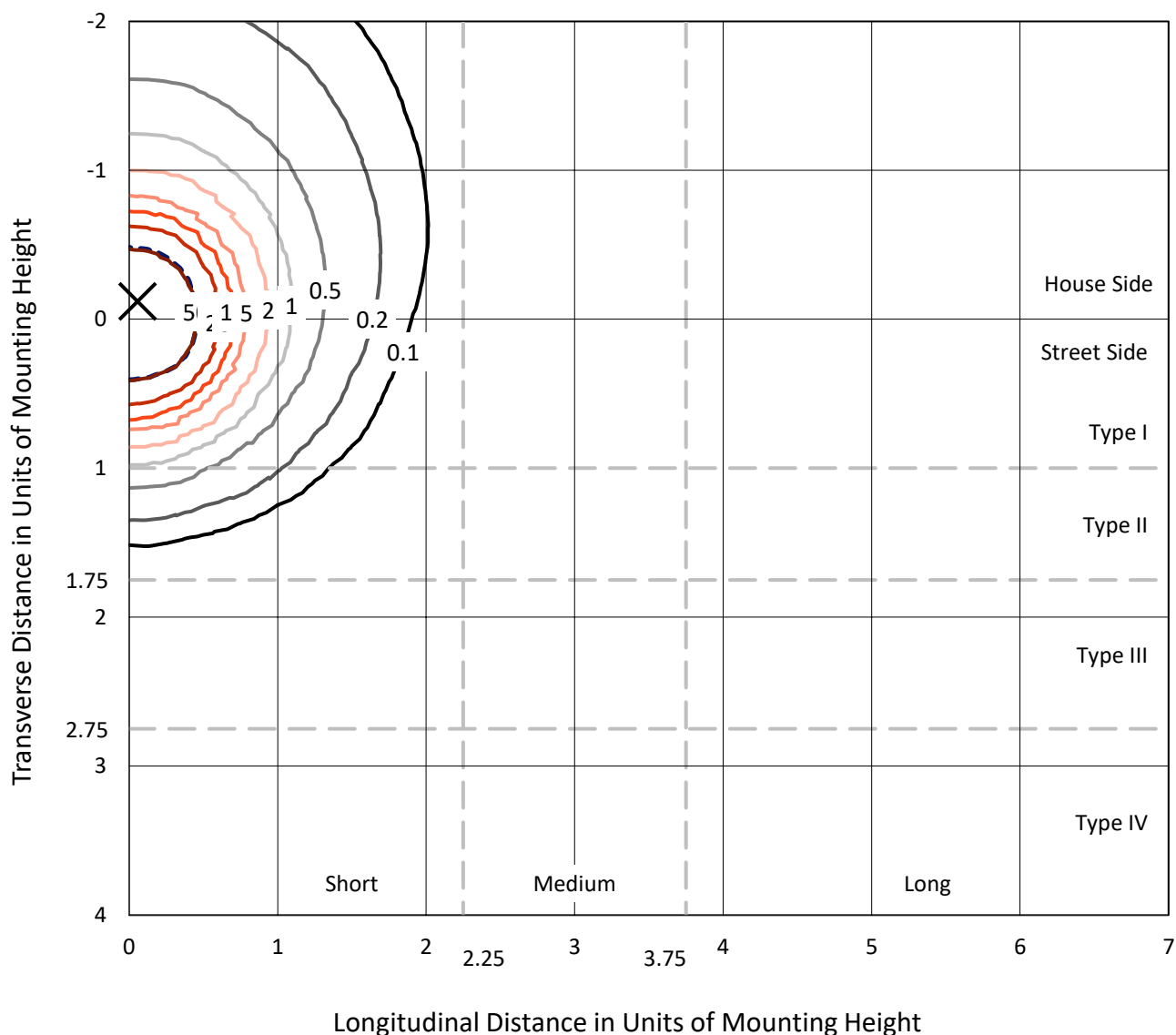
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



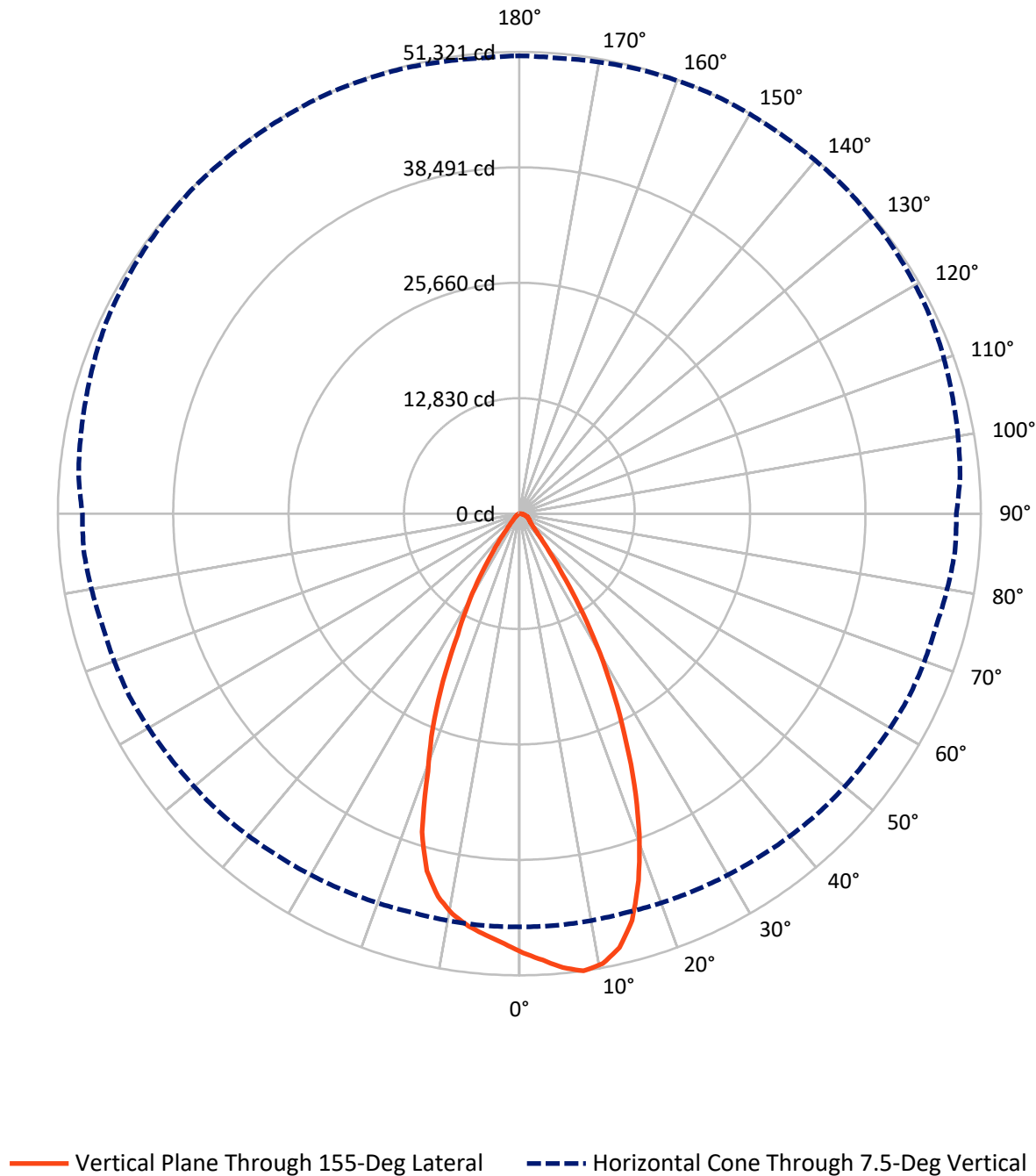
Based on 20 foot mounting height. Maximum calculated value = 124.1 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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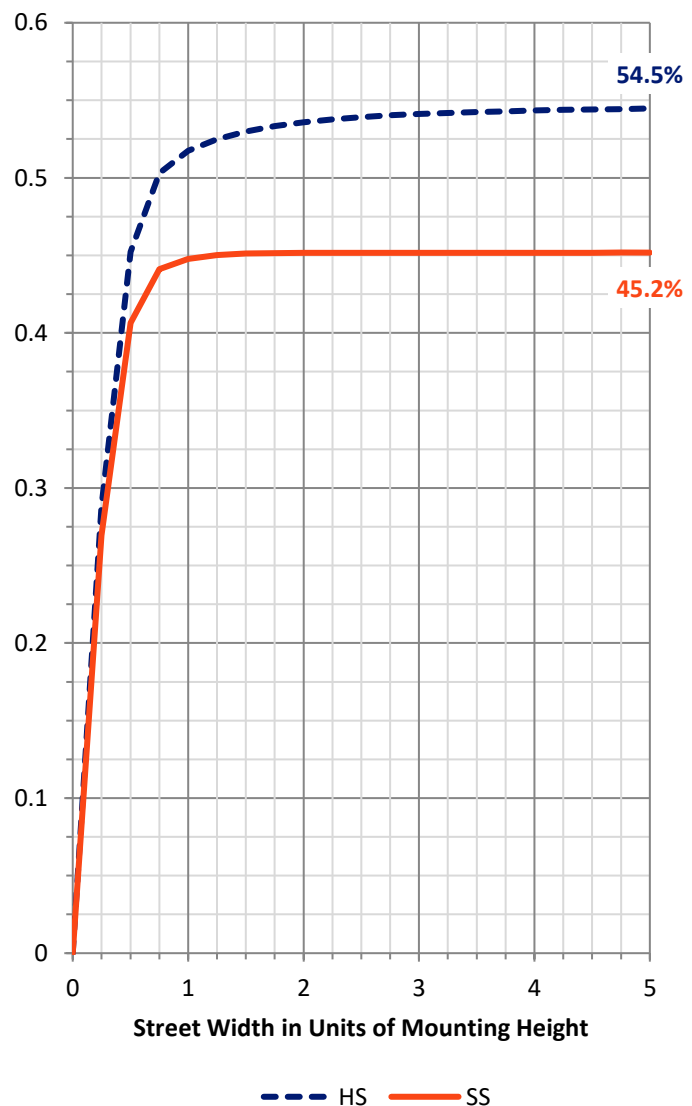
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19351.9	0.0	19351.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	15703.5	0.0	15703.5
	% Fixture	44.8	0.0	44.8
Total	Lumens	35055.4	0.0	35055.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4656.7	13.3
10°-20°	12074.9	34.4
20°-30°	11064.0	31.6
30°-40°	4469.8	12.8
40°-50°	1311.2	3.7
50°-60°	733.2	2.1
60°-70°	445.3	1.3
70°-80°	226.3	0.6
80°-90°	74.0	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°	35055.4	100.0
0°-180°	35055.4	100.0

Coefficient of Utilization



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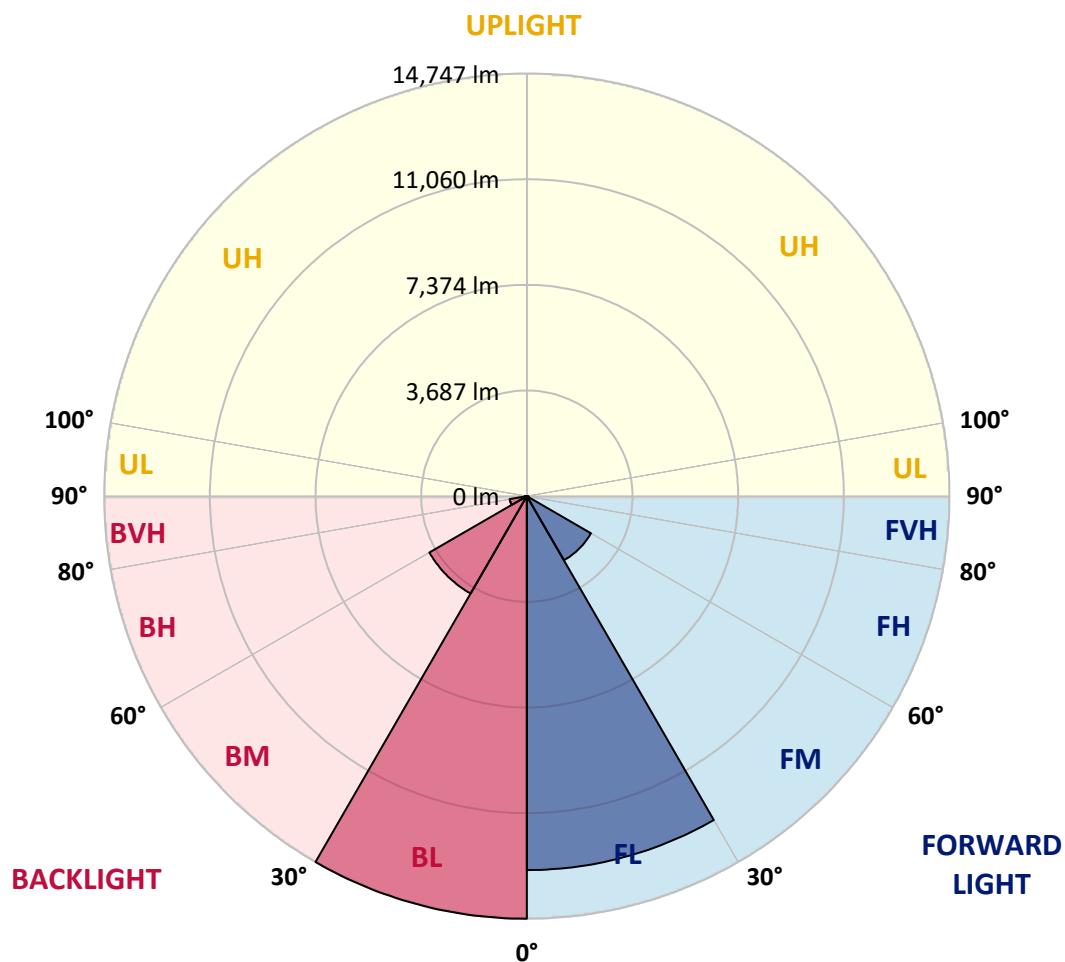
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	13048.5	37.2			
FM	(30°-60°)	2586.0	7.4			
FH	(60°-80°)	62.6	0.2			G0/660
FVH	(80°-90°)	6.4	0.0			G0/10
BL	(0°-30°)	14747.1	42.1	B5		
BM	(30°-60°)	3928.3	11.2	B3/5000		
BH	(60°-80°)	608.9	1.7	B2/1000		G2/1000
BVH	(80°-90°)	67.6	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°	48834.8	48834.8	48834.8	48834.8	48834.8	48834.8	48834.8	48834.8	48834.8	48834.8
2.5°	47775.8	47937.5	47614.1	47828.3	47994.0	48390.2	48422.5	48560.0	48608.5	48968.2
5°	46870.3	46995.6	46732.9	47019.9	47254.3	47606.0	47876.8	48256.8	48467.0	48891.4
7.5°	45928.4	45956.7	45904.2	46207.4	46559.0	47044.1	47379.6	47876.8	48006.2	48612.5
10°	44788.5	44582.4	44683.4	45128.1	45653.6	46397.3	46627.8	47125.0	47355.4	47973.8
12.5°	42969.5	43074.6	42949.3	43515.2	43951.8	44796.6	45039.1	45540.4	45981.0	46526.7
15°	40406.7	40346.0	40600.7	41041.3	41514.3	42185.3	42577.4	43123.1	43458.6	44024.5
17.5°	34646.4	34852.6	35903.6	37007.1	37977.3	38761.5	39230.4	39683.1	39925.6	40540.1
20°	29921.0	29662.3	29803.8	30426.3	33187.2	34387.7	34880.9	34990.0	35091.1	35576.1
22.5°	24637.7	24552.8	25025.8	25725.1	26379.9	29148.9	29819.9	29565.3	29775.5	30232.2
25°	18295.4	18723.9	19144.3	20486.3	21335.2	22693.4	23966.7	24079.9	24156.7	24443.7
27.5°	14891.8	14742.2	14734.1	15110.1	16363.2	17495.0	18578.3	18829.0	18784.5	19059.4
30°	11706.5	11657.9	11488.2	11577.1	11451.8	12458.3	12967.6	13998.4	13941.8	13949.9
32.5°	8444.3	8262.4	8193.7	8327.1	8197.8	8104.8	8549.4	9713.6	9693.4	9774.2
35°	5109.4	5085.2	5141.8	5259.0	5000.3	4992.2	5085.2	6180.7	6314.0	6443.4
37.5°	2821.5	2797.3	2841.7	3274.3	3189.4	3112.6	3136.8	3714.9	4098.9	4195.9
40°	1859.5	1855.4	1887.7	1964.6	2110.1	2081.8	2093.9	2352.6	2716.4	2801.3
42.5°	1245.0	1249.1	1269.3	1358.2	1378.4	1523.9	1499.7	1560.3	1899.9	1972.6
45°	994.4	990.4	1002.5	962.1	986.3	1135.9	1152.1	1156.1	1447.1	1491.6
47.5°	784.2	784.2	796.3	743.8	731.7	824.6	909.5	921.6	1156.1	1216.7
50°	549.8	549.8	610.4	586.1	614.4	642.7	735.7	747.8	945.9	1010.6
52.5°	404.2	412.3	420.4	424.4	517.4	513.4	594.2	650.8	715.5	828.7
55°	307.2	315.3	295.1	315.3	384.0	428.5	444.7	525.5	570.0	695.3
57.5°	202.1	222.3	206.2	242.5	258.7	331.5	355.7	432.5	460.8	570.0
60°	28.3	32.3	52.5	169.8	181.9	218.3	274.9	343.6	371.9	464.9
62.5°	4.0	4.0	12.1	28.3	121.3	145.5	206.2	238.5	274.9	347.6
65°	0.0	0.0	4.0	8.1	24.3	84.9	105.1	129.4	190.0	250.6
67.5°	0.0	0.0	4.0	8.1	12.1	28.3	44.5	84.9	109.1	173.8
70°	0.0	0.0	4.0	8.1	12.1	16.2	24.3	32.3	64.7	101.1
72.5°	0.0	0.0	4.0	8.1	12.1	16.2	20.2	24.3	28.3	64.7
75°	0.0	0.0	4.0	8.1	12.1	20.2	24.3	24.3	24.3	28.3
77.5°	0.0	0.0	4.0	8.1	16.2	24.3	28.3	24.3	20.2	20.2
80°	0.0	0.0	4.0	12.1	20.2	28.3	32.3	24.3	16.2	12.1
82.5°	0.0	0.0	4.0	12.1	20.2	28.3	32.3	28.3	16.2	12.1
85°	0.0	0.0	4.0	12.1	16.2	20.2	32.3	28.3	16.2	8.1
87.5°	0.0	0.0	0.0	4.0	4.0	8.1	16.2	12.1	8.1	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°
48834.8	0°	48834.8	48834.8	48834.8	48834.8	48834.8	48834.8	48834.8	48834.8	48834.8
48960.2	2.5°	49324.0	49505.9	49825.2	49914.1	50189.0	49873.7	49699.9	49716.1	49340.1
48838.9	5°	49324.0	49740.3	50298.1	50564.9	50767.1	50750.9	50706.4	50593.2	50318.4
48596.3	7.5°	49194.6	49873.7	50641.7	50997.5	51240.0	51219.8	51320.8	51138.9	50803.4
48163.8	10°	48778.2	49368.4	50314.3	50605.4	50997.5	51005.5	50880.2	50916.6	50318.4
46583.3	12.5°	47468.5	47929.4	48758.0	49089.5	49566.5	49643.3	49505.9	49453.3	48887.4
43992.2	15°	44934.0	45200.8	46033.5	46365.0	46838.0	46773.3	46910.7	46854.1	46356.9
40491.6	17.5°	41227.3	41312.1	42185.3	42464.2	42908.9	43082.7	42876.5	43139.3	42710.8
35661.0	20°	35911.7	36368.4	37350.7	37779.2	38037.9	38349.2	38078.3	38373.4	37872.2
29799.7	22.5°	30519.2	30790.1	31679.4	32297.9	32778.9	32839.5	32738.5	32944.6	32269.6
24633.7	25°	24629.6	25078.3	25781.7	26590.1	27063.1	27354.1	27091.4	27224.8	27115.6
19103.8	27.5°	19427.2	19827.4	20356.9	20959.2	21670.7	22050.7	21840.5	22066.8	21533.2
14245.0	30°	14257.1	14459.3	15057.5	15696.2	16476.4	16937.2	16957.4	17187.8	16872.5
9980.4	32.5°	10053.2	10231.0	10598.9	11023.3	11767.1	12280.5	12199.6	12232.0	12037.9
6504.0	35°	6536.4	6774.9	7037.6	7239.7	7688.4	8254.3	8209.9	8169.5	8036.1
4276.7	37.5°	4369.7	4462.7	4608.2	4790.1	5081.2	5436.9	5554.1	5408.6	5352.0
2886.2	40°	2954.9	3116.6	3213.6	3351.1	3488.5	3787.6	3868.5	3840.2	3783.6
2021.1	42.5°	2097.9	2223.3	2344.5	2477.9	2550.7	2736.6	2894.3	2849.8	2825.6
1536.1	45°	1592.7	1705.8	1847.3	1948.4	2021.1	2130.3	2279.8	2296.0	2259.6
1232.9	47.5°	1277.4	1378.4	1491.6	1616.9	1701.8	1770.5	1899.9	1948.4	1924.1
1038.9	50°	1083.3	1160.1	1269.3	1394.6	1487.6	1548.2	1661.4	1713.9	1697.8
869.1	52.5°	921.6	1014.6	1115.7	1220.8	1334.0	1394.6	1499.7	1576.5	1564.4
719.5	55°	764.0	885.3	990.4	1095.5	1224.8	1285.4	1378.4	1479.5	1459.3
610.4	57.5°	667.0	768.0	877.2	978.2	1115.7	1196.5	1281.4	1386.5	1382.5
501.2	60°	557.8	658.9	780.2	865.0	1010.6	1123.8	1200.6	1309.7	1317.8
380.0	62.5°	444.7	570.0	662.9	780.2	913.6	1047.0	1119.7	1228.9	1269.3
291.0	65°	331.5	468.9	574.0	691.2	816.5	966.1	1030.8	1139.9	1180.3
210.2	67.5°	246.6	351.7	485.1	586.1	727.6	857.0	933.8	1034.8	1063.1
125.3	70°	185.9	270.8	404.2	493.2	638.7	743.8	820.6	897.4	933.8
84.9	72.5°	109.1	202.1	319.3	424.4	549.8	638.7	695.3	755.9	780.2
40.4	75°	76.8	153.6	250.6	351.7	444.7	517.4	570.0	622.5	646.8
20.2	77.5°	40.4	113.2	198.1	283.0	347.6	408.3	460.8	501.2	517.4
16.2	80°	24.3	80.8	161.7	222.3	266.8	319.3	371.9	400.2	396.1
12.1	82.5°	16.2	64.7	117.2	161.7	194.0	234.5	270.8	291.0	291.0
8.1	85°	12.1	44.5	80.8	125.3	129.4	161.7	169.8	190.0	194.0
8.1	87.5°	8.1	28.3	44.5	72.8	68.7	84.9	88.9	101.1	109.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
48834.8
49037.0
50407.3
50880.2
50144.5
48758.0
46514.6
42605.7
37831.7
32176.6
27046.9
21670.7
16929.1
12147.1
7918.8
5339.9
3791.7
2805.3
2255.6
1912.0
1693.7
1556.3
1459.3
1378.4
1317.8
1265.2
1176.3
1063.1
925.7
772.1
638.7
513.4
392.1
287.0
190.0
105.1
0.0

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