

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: P637774

Luminaire Tested: **IFLD-L-SA7C-830-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637774
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-830-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33088.6 lumens
Efficiency: N/A
Efficacy: 89.7 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): 369
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



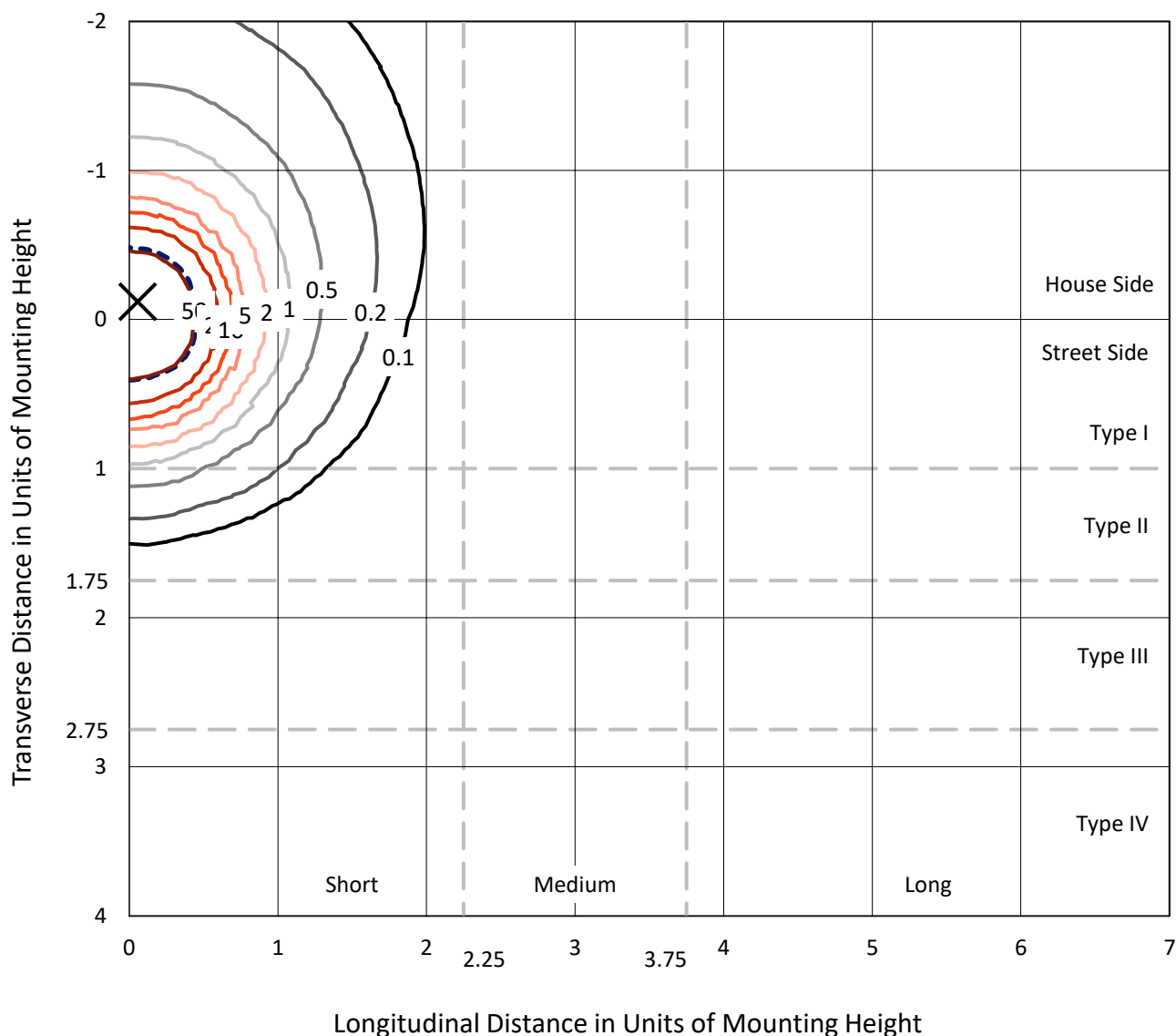
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



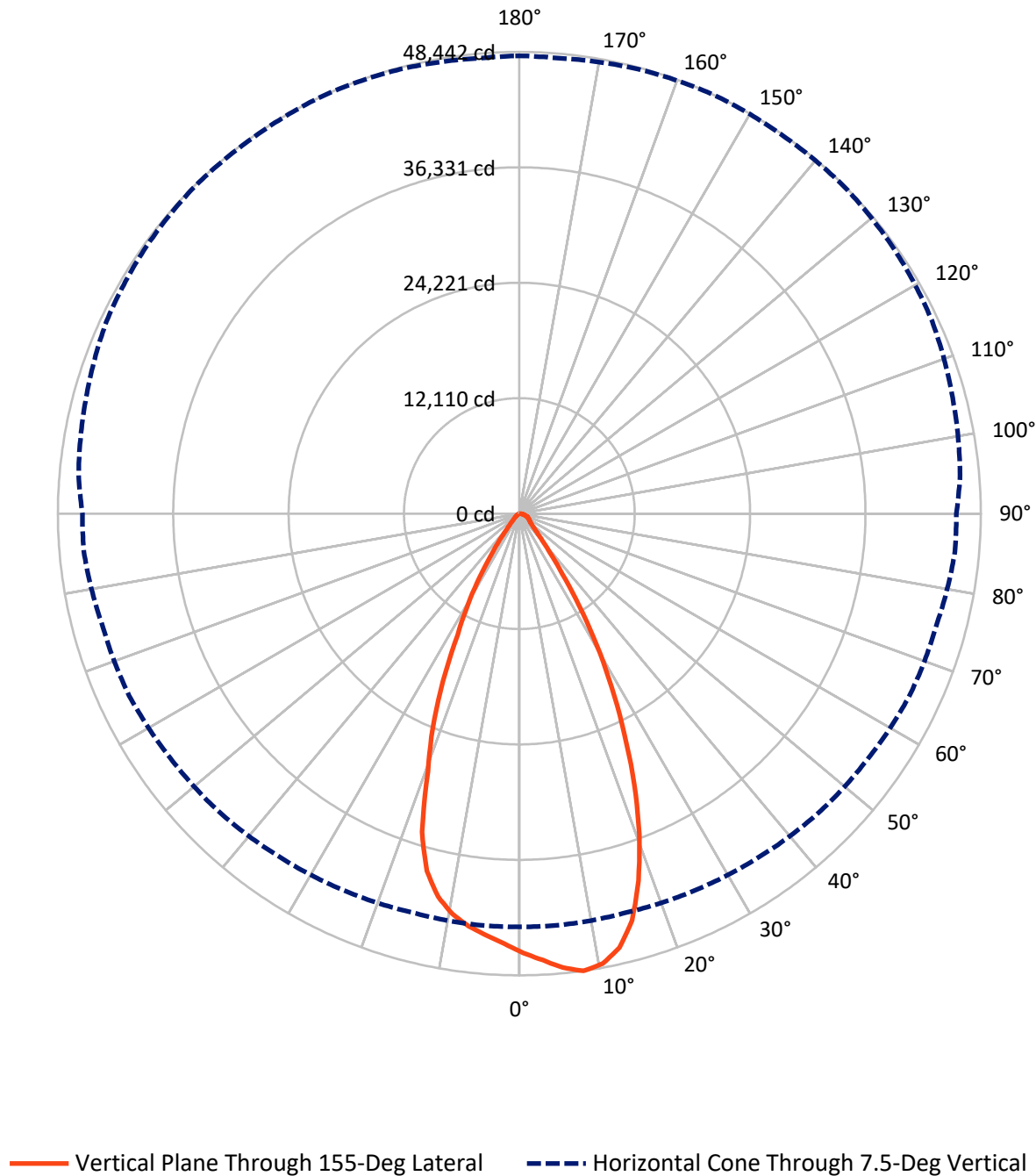
Based on 20 foot mounting height. Maximum calculated value = 117.1 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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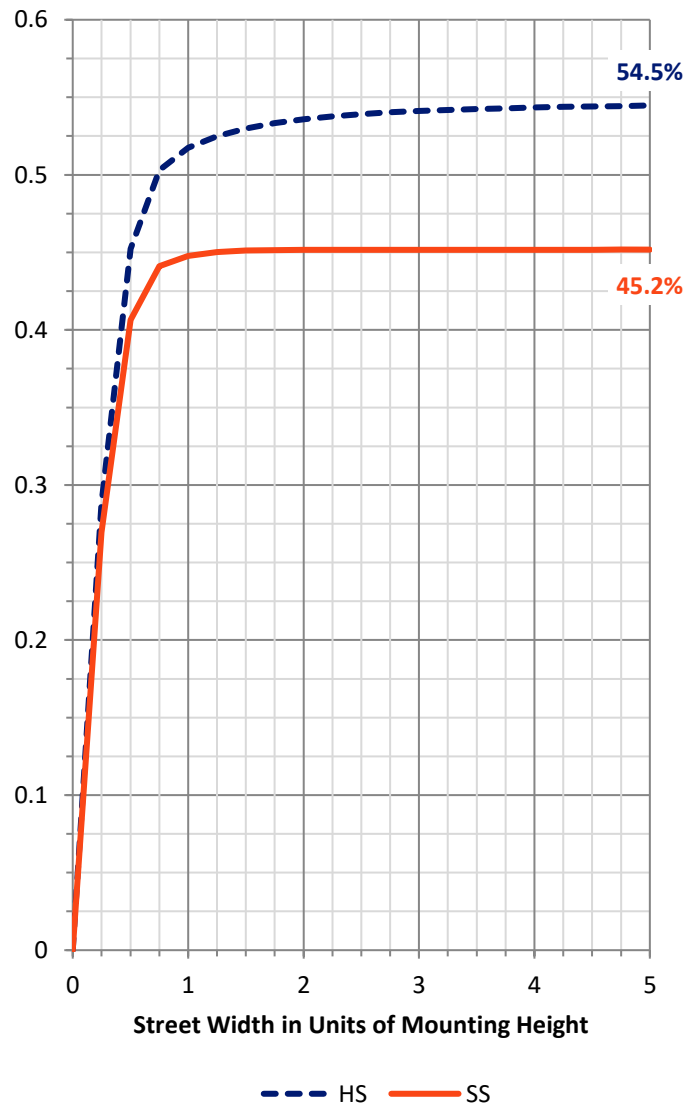
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18266.1	0.0	18266.1
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	14822.5	0.0	14822.5
	% Fixture	44.8	0.0	44.8
Total	Lumens	33088.6	0.0	33088.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4395.5	13.3
10°-20°	11397.4	34.4
20°-30°	10443.2	31.6
30°-40°	4219.1	12.8
40°-50°	1237.7	3.7
50°-60°	692.0	2.1
60°-70°	420.3	1.3
70°-80°	213.6	0.6
80°-90°	69.8	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°	33088.6	100.0
0°-180°	33088.6	100.0

Coefficient of Utilization



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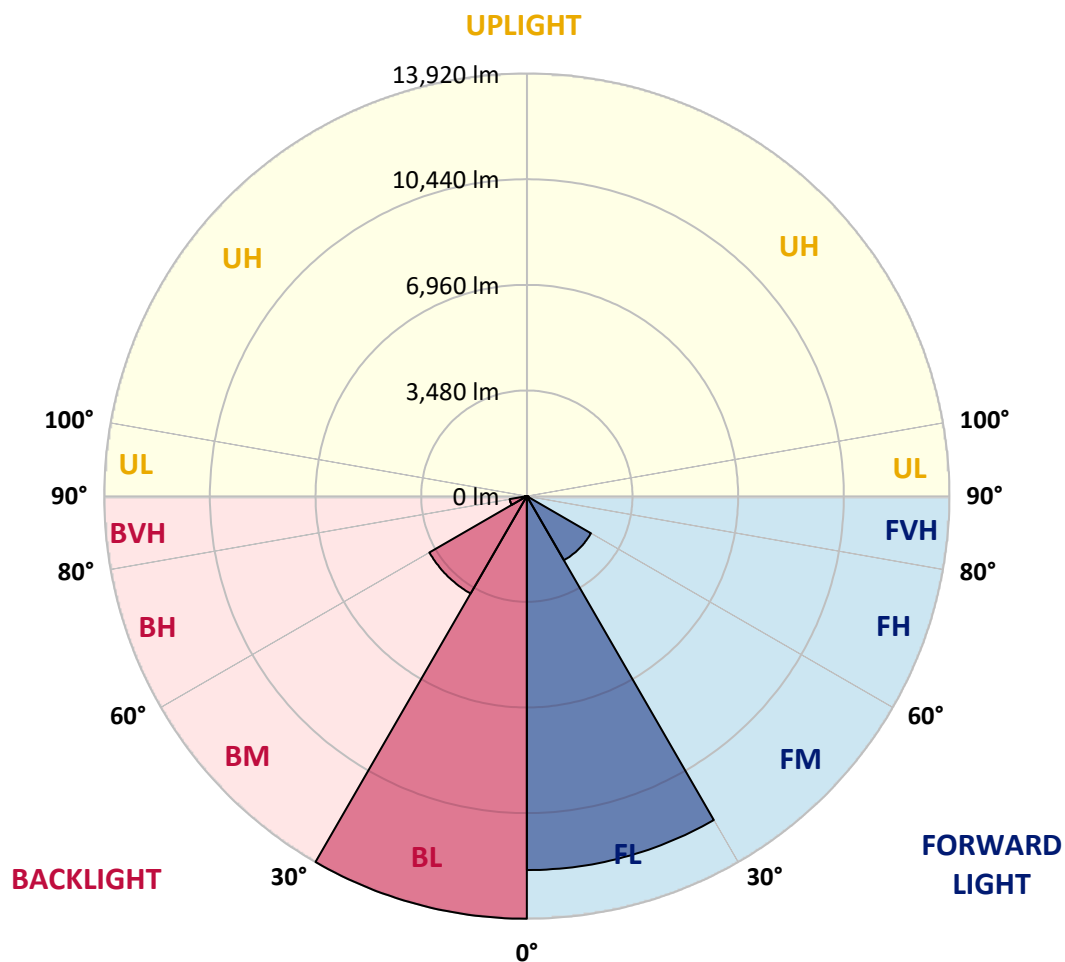
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	12316.4	37.2			
FM	(30°-60°)	2440.9	7.4			
FH	(60°-80°)	59.1	0.2			G0/660
FVH	(80°-90°)	6.0	0.0			G0/10
BL	(0°-30°)	13919.7	42.1	B5		
BM	(30°-60°)	3707.9	11.2	B3/5000		
BH	(60°-80°)	574.7	1.7	B2/1000		G2/1000
BVH	(80°-90°)	63.8	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-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	46095.0	46095.0	46095.0	46095.0	46095.0	46095.0	46095.0	46095.0	46095.0	46095.0
2.5°	45095.3	45247.9	44942.7	45144.9	45301.3	45675.3	45705.8	45835.5	45881.3	46220.9
5°	44240.6	44358.9	44110.9	44381.8	44603.1	44935.1	45190.7	45549.3	45747.8	46148.4
7.5°	43351.6	43378.3	43328.7	43614.9	43946.8	44404.7	44721.4	45190.7	45312.8	45885.1
10°	42275.7	42081.1	42176.5	42596.2	43092.2	43794.2	44011.7	44481.0	44698.5	45282.3
12.5°	40558.7	40657.9	40539.6	41073.8	41485.8	42283.3	42512.2	42985.3	43401.2	43916.3
15°	38139.7	38082.4	38322.8	38738.7	39185.1	39818.5	40188.6	40703.7	41020.4	41554.5
17.5°	32702.6	32897.2	33889.2	34930.8	35846.6	36586.8	37029.4	37456.7	37685.6	38265.6
20°	28242.3	27998.1	28131.6	28719.2	31325.2	32458.4	32923.9	33026.9	33122.3	33580.1
22.5°	23255.4	23175.3	23621.7	24281.8	24899.9	27513.5	28146.9	27906.5	28104.9	28536.1
25°	17268.9	17673.4	18070.2	19336.9	20138.2	21420.2	22622.1	22728.9	22801.4	23072.3
27.5°	14056.3	13915.1	13907.5	14262.3	15445.1	16513.5	17536.0	17772.6	17730.6	17990.0
30°	11049.7	11003.9	10843.6	10927.6	10809.3	11759.3	12240.1	13213.0	13159.6	13167.3
32.5°	7970.6	7798.9	7734.0	7859.9	7737.8	7650.1	8069.8	9168.6	9149.6	9225.9
35°	4822.8	4799.9	4853.3	4964.0	4719.8	4712.1	4799.9	5833.9	5959.8	6081.9
37.5°	2663.2	2640.3	2682.3	3090.5	3010.4	2937.9	2960.8	3506.4	3868.9	3960.5
40°	1755.1	1751.3	1781.8	1854.3	1991.7	1965.0	1976.4	2220.6	2564.0	2644.1
42.5°	1175.2	1179.0	1198.1	1282.0	1301.1	1438.4	1415.5	1472.8	1793.3	1862.0
45°	938.6	934.8	946.2	908.1	931.0	1072.2	1087.4	1091.2	1365.9	1407.9
47.5°	740.2	740.2	751.7	702.1	690.6	778.4	858.5	869.9	1091.2	1148.5
50°	518.9	518.9	576.1	553.2	580.0	606.7	694.4	705.9	892.8	953.9
52.5°	381.5	389.2	396.8	400.6	488.4	484.6	560.9	614.3	675.3	782.2
55°	290.0	297.6	278.5	297.6	362.5	404.4	419.7	496.0	538.0	656.3
57.5°	190.8	209.9	194.6	228.9	244.2	312.9	335.8	408.3	435.0	538.0
60°	26.7	30.5	49.6	160.3	171.7	206.0	259.5	324.3	351.0	438.8
62.5°	3.8	3.8	11.4	26.7	114.5	137.4	194.6	225.1	259.5	328.1
65°	0.0	0.0	3.8	7.6	22.9	80.1	99.2	122.1	179.3	236.6
67.5°	0.0	0.0	3.8	7.6	11.4	26.7	42.0	80.1	103.0	164.1
70°	0.0	0.0	3.8	7.6	11.4	15.3	22.9	30.5	61.0	95.4
72.5°	0.0	0.0	3.8	7.6	11.4	15.3	19.1	22.9	26.7	61.0
75°	0.0	0.0	3.8	7.6	11.4	19.1	22.9	22.9	22.9	26.7
77.5°	0.0	0.0	3.8	7.6	15.3	22.9	26.7	22.9	19.1	19.1
80°	0.0	0.0	3.8	11.4	19.1	26.7	30.5	22.9	15.3	11.4
82.5°	0.0	0.0	3.8	11.4	19.1	26.7	30.5	26.7	15.3	11.4
85°	0.0	0.0	3.8	11.4	15.3	19.1	30.5	26.7	15.3	7.6
87.5°	0.0	0.0	0.0	3.8	3.8	7.6	15.3	11.4	7.6	3.8
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°
46095.0	0°	46095.0	46095.0	46095.0	46095.0	46095.0	46095.0	46095.0	46095.0	46095.0
46213.2	2.5°	46556.6	46728.3	47029.8	47113.7	47373.2	47075.5	46911.5	46926.7	46571.9
46098.8	5°	46556.6	46949.6	47476.2	47728.0	47918.8	47903.5	47861.5	47754.7	47495.2
45869.8	7.5°	46434.5	47075.5	47800.5	48136.3	48365.2	48346.1	48441.5	48269.8	47953.1
45461.6	10°	46041.5	46598.6	47491.4	47766.1	48136.3	48143.9	48025.6	48059.9	47495.2
43969.7	12.5°	44805.3	45240.3	46022.5	46335.3	46785.6	46858.1	46728.3	46678.7	46144.6
41524.0	15°	42413.0	42664.8	43450.8	43763.7	44210.1	44149.1	44278.8	44225.4	43756.1
38219.8	17.5°	38914.2	38994.3	39818.5	40081.7	40501.5	40665.5	40470.9	40718.9	40314.5
33660.3	20°	33896.8	34328.0	35255.1	35659.6	35903.8	36197.6	35941.9	36220.5	35747.3
28127.8	22.5°	28807.0	29062.6	29902.0	30485.8	30939.8	30997.1	30901.7	31096.3	30459.1
23251.6	25°	23247.8	23671.3	24335.2	25098.3	25544.7	25819.4	25571.4	25697.3	25594.3
18032.0	27.5°	18337.3	18715.0	19214.8	19783.3	20454.9	20813.5	20615.1	20828.8	20325.1
13445.8	30°	13457.2	13648.0	14212.7	14815.6	15551.9	15986.9	16006.0	16223.5	15925.9
9420.5	32.5°	9489.1	9657.0	10004.2	10404.8	11106.9	11591.5	11515.2	11545.7	11362.5
6139.1	35°	6169.7	6394.8	6642.8	6833.5	7257.1	7791.2	7749.3	7711.1	7585.2
4036.8	37.5°	4124.5	4212.3	4349.7	4521.4	4796.1	5131.8	5242.5	5105.1	5051.7
2724.3	40°	2789.1	2941.7	3033.3	3163.0	3292.8	3575.1	3651.4	3624.7	3571.3
1907.7	42.5°	1980.2	2098.5	2213.0	2338.9	2407.6	2583.1	2731.9	2689.9	2667.0
1449.9	45°	1503.3	1610.1	1743.7	1839.1	1907.7	2010.8	2151.9	2167.2	2132.9
1163.7	47.5°	1205.7	1301.1	1407.9	1526.2	1606.3	1671.2	1793.3	1839.1	1816.2
980.6	50°	1022.6	1095.0	1198.1	1316.3	1404.1	1461.3	1568.2	1617.8	1602.5
820.3	52.5°	869.9	957.7	1053.1	1152.3	1259.1	1316.3	1415.5	1488.0	1476.6
679.2	55°	721.1	835.6	934.8	1034.0	1156.1	1213.3	1301.1	1396.5	1377.4
576.1	57.5°	629.6	724.9	828.0	923.3	1053.1	1129.4	1209.5	1308.7	1304.9
473.1	60°	526.5	621.9	736.4	816.5	953.9	1060.7	1133.2	1236.2	1243.9
358.7	62.5°	419.7	538.0	625.7	736.4	862.3	988.2	1056.9	1159.9	1198.1
274.7	65°	312.9	442.6	541.8	652.4	770.7	911.9	973.0	1076.0	1114.1
198.4	67.5°	232.7	331.9	457.9	553.2	686.8	808.9	881.4	976.8	1003.5
118.3	70°	175.5	255.6	381.5	465.5	602.8	702.1	774.5	847.0	881.4
80.1	72.5°	103.0	190.8	301.4	400.6	518.9	602.8	656.3	713.5	736.4
38.2	75°	72.5	145.0	236.6	331.9	419.7	488.4	538.0	587.6	610.5
19.1	77.5°	38.2	106.8	187.0	267.1	328.1	385.4	435.0	473.1	488.4
15.3	80°	22.9	76.3	152.6	209.9	251.8	301.4	351.0	377.7	373.9
11.4	82.5°	15.3	61.0	110.6	152.6	183.1	221.3	255.6	274.7	274.7
7.6	85°	11.4	42.0	76.3	118.3	122.1	152.6	160.3	179.3	183.1
7.6	87.5°	7.6	26.7	42.0	68.7	64.9	80.1	83.9	95.4	103.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
46095.0
46285.7
47579.2
48025.6
47331.2
46022.5
43904.9
40215.3
35709.2
30371.3
25529.5
20454.9
15979.3
11465.6
7474.5
5040.3
3578.9
2648.0
2129.0
1804.7
1598.7
1469.0
1377.4
1301.1
1243.9
1194.2
1110.3
1003.5
873.7
728.8
602.8
484.6
370.1
270.9
179.3
99.2
0.0

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