

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: P638155

Luminaire Tested: **IFLD-L-SA8B-735-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638155
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-735-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30875.9 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 320
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



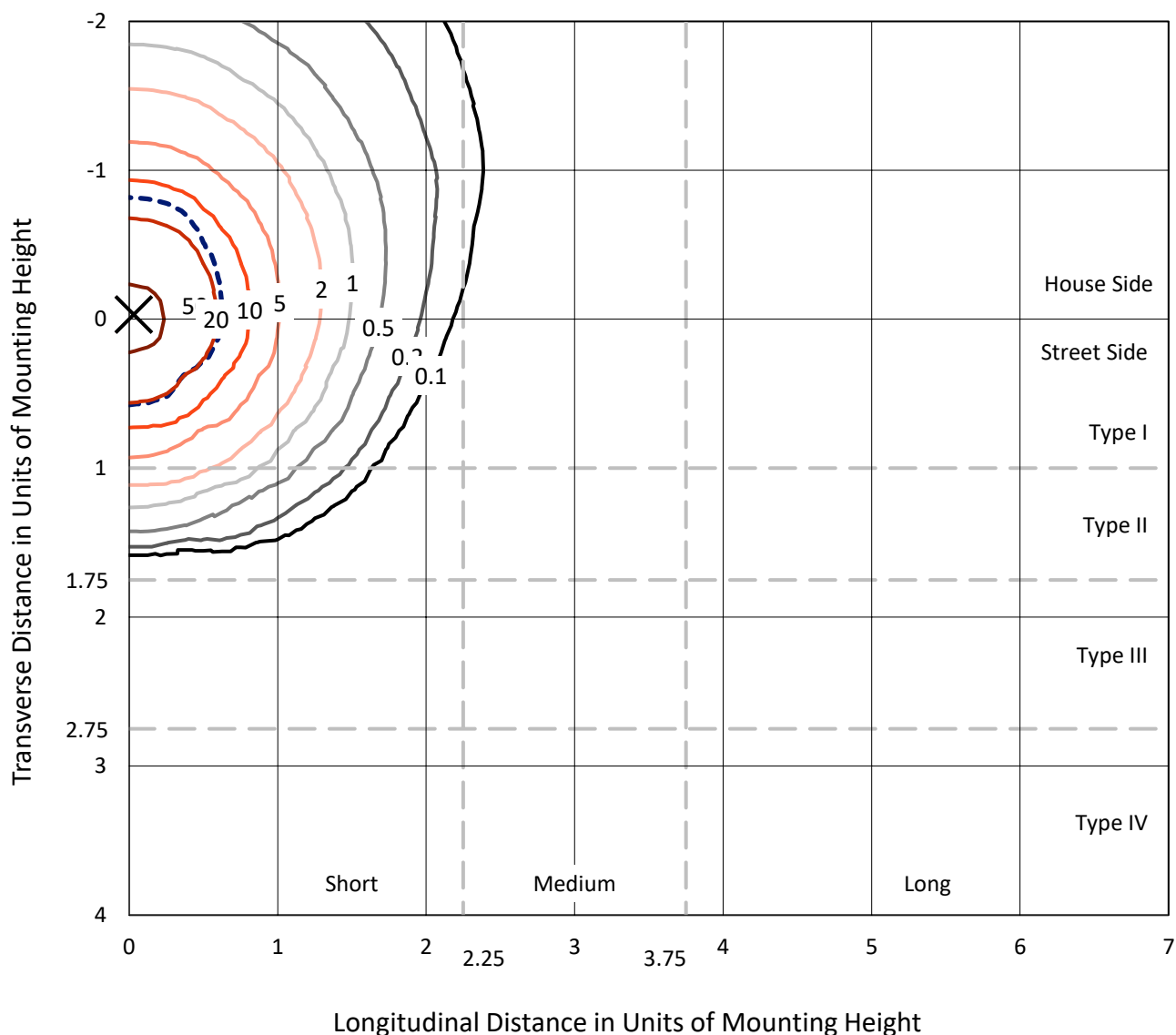
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

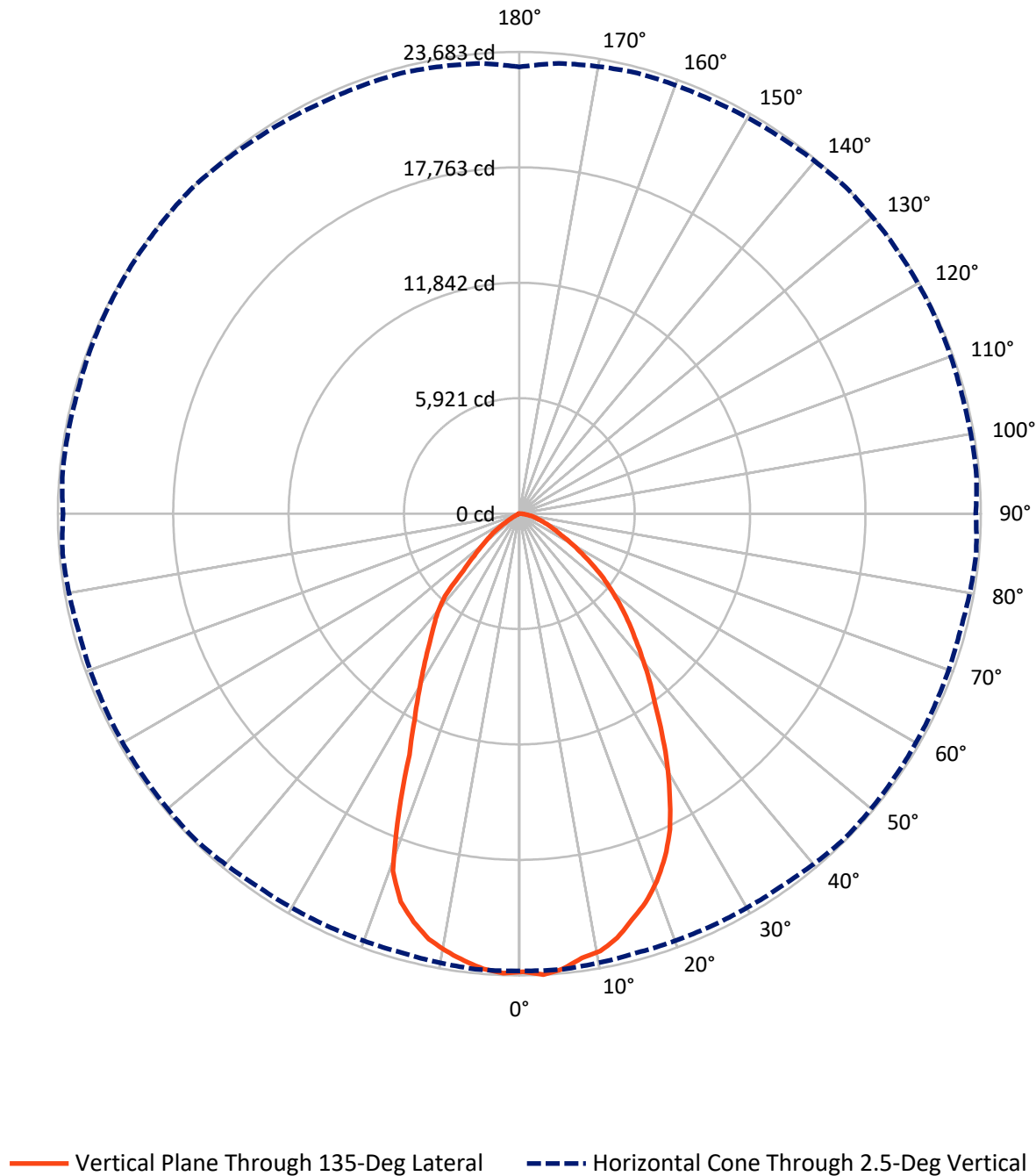


Based on 20 foot mounting height. Maximum calculated value = 58.7 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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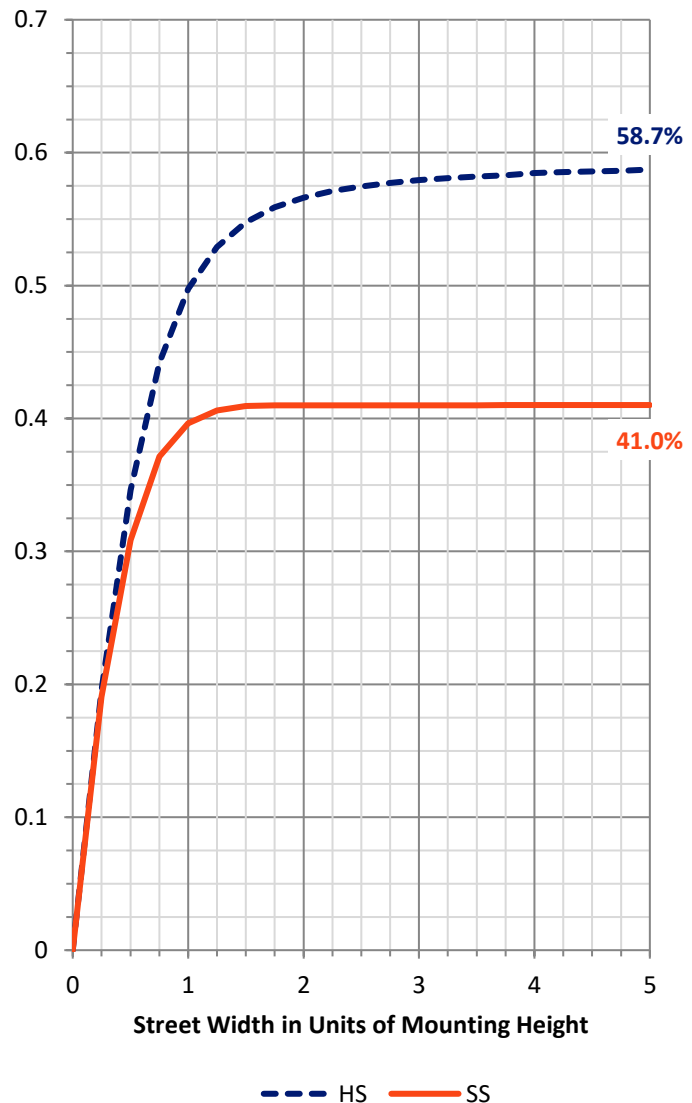
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18286.3	0.0	18286.3
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	12589.6	0.0	12589.6
	% Fixture	40.8	0.0	40.8
Total	Lumens	30875.9	0.0	30875.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2203.6	7.1
10°-20°	5909.1	19.1
20°-30°	7206.5	23.3
30°-40°	6579.4	21.3
40°-50°	4754.8	15.4
50°-60°	2596.2	8.4
60°-70°	1073.4	3.5
70°-80°	434.7	1.4
80°-90°	118.3	0.4
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°	30875.9	100.0
0°-180°	30875.9	100.0

Coefficient of Utilization



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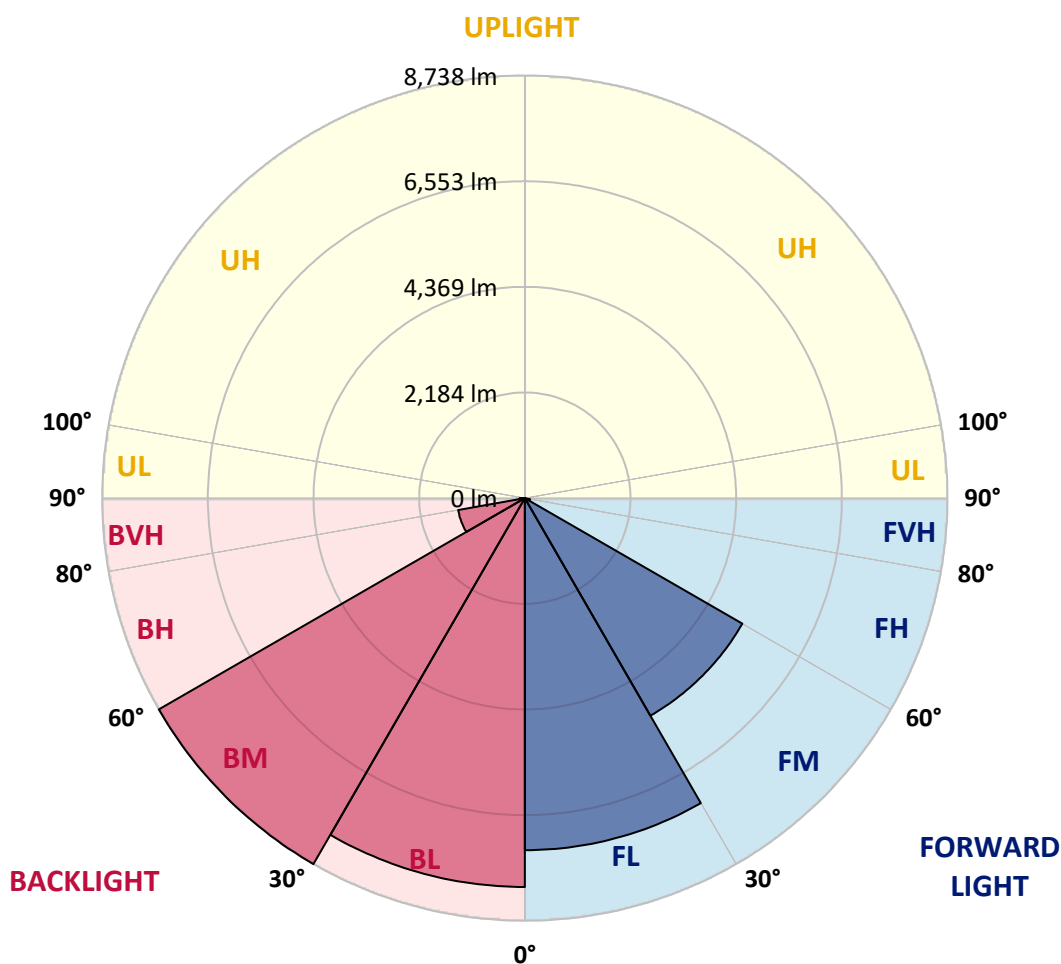
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7278.6	23.6			
FM	(30°-60°)	5192.8	16.8			
FH	(60°-80°)	108.8	0.4			G0/660
FVH	(80°-90°)	9.5	0.0			G0/10
BL	(0°-30°)	8040.5	26.0	B5		
BM	(30°-60°)	8737.6	28.3	B5		
BH	(60°-80°)	1399.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	108.8	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	23496.5	23496.5	23496.5	23496.5	23496.5	23496.5	23496.5	23496.5	23496.5	23496.5
2.5°	23453.0	23483.4	23318.2	23335.6	23366.0	23587.8	23531.3	23479.1	23405.2	23531.3
5°	23422.6	23439.9	23266.0	23205.2	23231.2	23431.3	23248.6	23248.6	23231.2	23209.5
7.5°	23187.8	23196.5	23061.7	22953.0	23022.5	23113.9	22979.1	23044.3	22948.6	23022.5
10°	22835.6	22779.1	22618.2	22587.7	22666.0	22753.0	22661.7	22722.5	22635.6	22692.1
12.5°	22318.2	22231.2	22100.8	22061.6	22196.4	22313.8	22239.9	22205.1	22092.1	22231.2
15°	20322.4	20257.2	20552.9	21070.3	21535.5	21635.5	21557.3	21592.1	21357.3	21396.4
17.5°	16726.7	16604.9	16922.3	18148.5	19896.3	20818.1	20748.6	20522.5	20174.6	20252.9
20°	15200.5	15165.7	15131.0	15422.3	16644.1	19439.8	19535.5	18961.5	18465.9	18357.2
22.5°	14339.6	14326.6	14291.8	14357.0	14678.8	16474.5	17570.2	17039.7	16709.3	16678.8
25°	13552.6	13530.9	13426.6	13509.2	13509.2	13613.5	15017.9	15339.7	15048.4	15013.6
27.5°	12752.6	12713.5	12696.1	12735.2	12535.2	11830.8	12187.4	13757.0	13604.8	13613.5
30°	11887.4	11874.3	11826.5	11909.1	11291.7	10417.8	10191.7	12322.2	12352.6	12343.9
32.5°	10600.4	10656.9	10874.3	10965.6	9948.2	9226.4	8848.1	10661.2	11283.0	11270.0
35°	7700.3	7700.3	8409.0	9726.4	8717.7	8174.2	7969.8	9039.4	10226.4	10269.9
37.5°	6330.7	6352.4	6491.5	7091.6	7522.0	7330.7	7269.8	7609.0	8869.9	8939.4
40°	5695.9	5695.9	5695.9	5448.0	5435.0	6604.6	6569.8	6461.1	7661.1	7813.3
42.5°	5117.6	5130.6	5139.3	4513.2	4165.4	5708.9	5630.6	5465.4	6578.5	6756.8
45°	4521.9	4543.6	4569.7	3774.0	3621.9	4108.8	4765.4	4582.8	5508.9	5739.3
47.5°	2761.0	2795.7	3387.1	3200.1	3217.5	3169.7	3887.1	3856.7	4517.5	4843.6
50°	1865.3	1878.3	1934.9	2030.5	2761.0	2491.4	2752.3	3191.4	3430.6	3926.2
52.5°	1565.3	1587.0	1447.9	1317.4	1813.1	1947.9	1921.8	2369.6	2465.3	3078.4
55°	1100.0	1169.6	1104.4	1091.3	1030.5	1513.1	1456.6	1821.8	1882.7	2339.2
57.5°	113.0	130.4	226.1	813.1	673.9	856.6	1039.2	1334.8	1395.7	1726.1
60°	8.7	8.7	21.7	113.0	491.3	513.1	717.4	821.8	939.2	1204.4
62.5°	0.0	4.3	8.7	17.4	78.3	273.9	360.9	430.4	565.2	778.3
65°	0.0	0.0	4.3	13.0	17.4	104.4	139.1	226.1	308.7	482.6
67.5°	0.0	0.0	4.3	8.7	13.0	26.1	47.8	82.6	165.2	273.9
70°	0.0	0.0	4.3	8.7	13.0	21.7	34.8	52.2	73.9	147.8
72.5°	0.0	0.0	4.3	4.3	8.7	21.7	26.1	34.8	52.2	73.9
75°	0.0	0.0	4.3	4.3	13.0	26.1	21.7	26.1	34.8	47.8
77.5°	0.0	0.0	4.3	8.7	13.0	26.1	21.7	26.1	26.1	30.4
80°	0.0	0.0	4.3	8.7	17.4	30.4	26.1	26.1	21.7	21.7
82.5°	0.0	0.0	4.3	13.0	17.4	39.1	39.1	34.8	17.4	13.0
85°	0.0	0.0	8.7	17.4	26.1	43.5	43.5	34.8	13.0	8.7
87.5°	0.0	0.0	8.7	13.0	21.7	30.4	43.5	34.8	13.0	4.3
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°
23496.5	0°	23496.5	23496.5	23496.5	23496.5	23496.5	23496.5	23496.5	23496.5	23496.5
23422.6	2.5°	23540.0	23513.9	23600.8	23635.6	23683.4	23500.8	23387.8	23392.1	23183.4
23157.3	5°	23296.5	23300.8	23413.9	23405.2	23453.0	23353.0	23309.5	23235.6	23053.0
22822.5	7.5°	22987.8	22948.6	23057.3	23139.9	23018.2	23087.8	22987.8	23022.5	22913.8
22526.9	10°	22748.6	22657.3	22757.3	22813.8	22818.2	22748.6	22653.0	22561.7	22522.5
22066.0	12.5°	22218.2	22100.8	22270.3	22348.6	22335.6	22200.8	22092.1	22113.8	21987.7
21257.3	15°	21487.7	21492.1	21613.8	21687.7	21618.1	21587.7	21596.4	21544.2	21435.5
20139.8	17.5°	20370.3	20435.5	20757.2	20935.5	20974.6	20913.8	20883.3	20822.5	20713.8
18357.2	20°	18509.3	18900.7	19474.6	20026.8	20135.5	20118.1	20009.4	19983.3	19922.4
16591.9	22.5°	16874.5	17165.8	17831.1	18692.0	19135.5	19178.9	19048.5	19009.4	18944.1
15013.6	25°	15183.1	15496.2	16096.2	17031.0	17948.5	18135.4	18113.7	17996.3	17926.7
13613.5	27.5°	13757.0	14070.1	14613.6	15457.1	16439.7	17039.7	17096.2	16909.3	16904.9
12365.6	30°	12470.0	12900.5	13313.5	14000.5	14952.7	15852.7	15948.4	15817.9	15831.0
11222.1	32.5°	11461.3	11817.8	12170.0	12630.9	13422.2	14470.1	14844.0	14722.3	14674.4
10269.9	35°	10430.8	10674.3	11035.2	11456.9	11996.1	13035.2	13683.1	13591.8	13544.0
8982.9	37.5°	9256.8	9674.3	9935.1	10409.1	10830.8	11656.9	12570.0	12557.0	12457.0
7887.2	40°	8052.5	8491.6	8887.3	9365.5	9691.6	10348.2	11361.3	11356.9	11370.0
6752.4	42.5°	6961.1	7365.5	7843.8	8365.5	8678.6	9156.8	10243.8	10304.7	10378.6
5817.6	45°	5974.1	6339.4	6782.8	7417.7	7795.9	8069.8	9035.1	9313.4	9309.0
4982.8	47.5°	5087.1	5430.6	5804.6	6422.0	6904.6	7152.4	7952.5	8348.1	8322.0
4087.1	50°	4269.7	4574.1	4965.4	5413.2	6061.1	6278.5	6874.2	7395.9	7356.8
3256.6	52.5°	3434.9	3856.7	4187.1	4595.8	5278.4	5491.5	5952.4	6461.1	6430.7
2443.6	55°	2678.4	3087.1	3487.1	3839.3	4413.2	4730.6	5061.0	5582.8	5574.1
1913.1	57.5°	2026.2	2474.0	2852.3	3187.1	3643.6	4034.9	4300.2	4774.1	4835.0
1308.7	60°	1500.1	1843.5	2252.3	2626.2	2987.1	3391.4	3569.7	4034.9	4061.0
895.7	62.5°	1021.8	1400.0	1800.1	2139.2	2408.8	2826.2	2987.1	3369.7	3417.5
573.9	65°	708.7	952.2	1408.7	1652.2	1982.7	2339.2	2500.1	2804.4	2900.1
330.4	67.5°	469.6	678.3	1100.0	1321.8	1647.9	1891.4	2095.7	2343.6	2447.9
208.7	70°	256.5	500.0	787.0	1043.5	1326.1	1560.9	1760.9	1960.9	2052.2
95.7	72.5°	173.9	334.8	547.8	826.1	1069.6	1300.0	1478.3	1626.1	1630.5
56.5	75°	87.0	226.1	417.4	639.2	834.8	1060.9	1221.8	1308.7	1204.4
34.8	77.5°	52.2	165.2	339.1	513.1	678.3	856.6	947.9	995.7	826.1
26.1	80°	30.4	117.4	265.2	408.7	469.6	630.5	717.4	730.5	552.2
17.4	82.5°	21.7	87.0	208.7	300.0	287.0	443.5	539.1	521.8	352.2
13.0	85°	13.0	60.9	130.4	187.0	173.9	291.3	313.1	321.8	204.4
8.7	87.5°	8.7	34.8	69.6	100.0	82.6	126.1	126.1	152.2	100.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
23496.5
22913.8
23009.5
22731.2
22348.6
21879.0
21326.8
20665.9
19783.3
18926.7
17852.8
16896.2
15765.8
14678.8
13478.7
12539.6
11370.0
10339.5
9317.7
8330.7
7391.6
6495.9
5595.8
4808.9
4100.1
3426.2
2878.4
2434.9
2017.5
1591.4
1126.1
795.7
517.4
326.1
187.0
87.0
0.0

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