

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: P637766

Luminaire Tested: **IFLD-S-SA6E-830-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637766
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-830-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (96) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39494.3 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

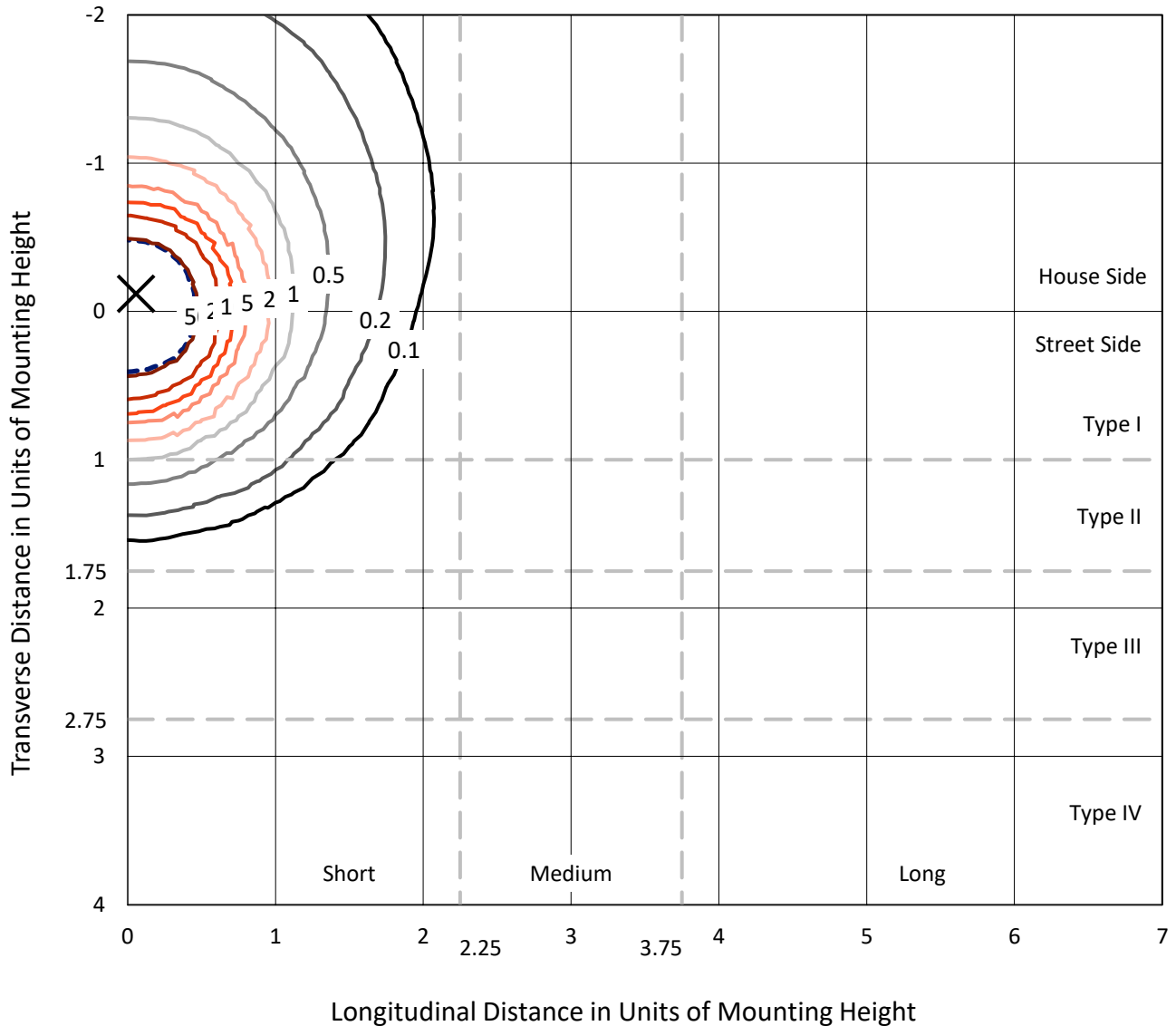
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

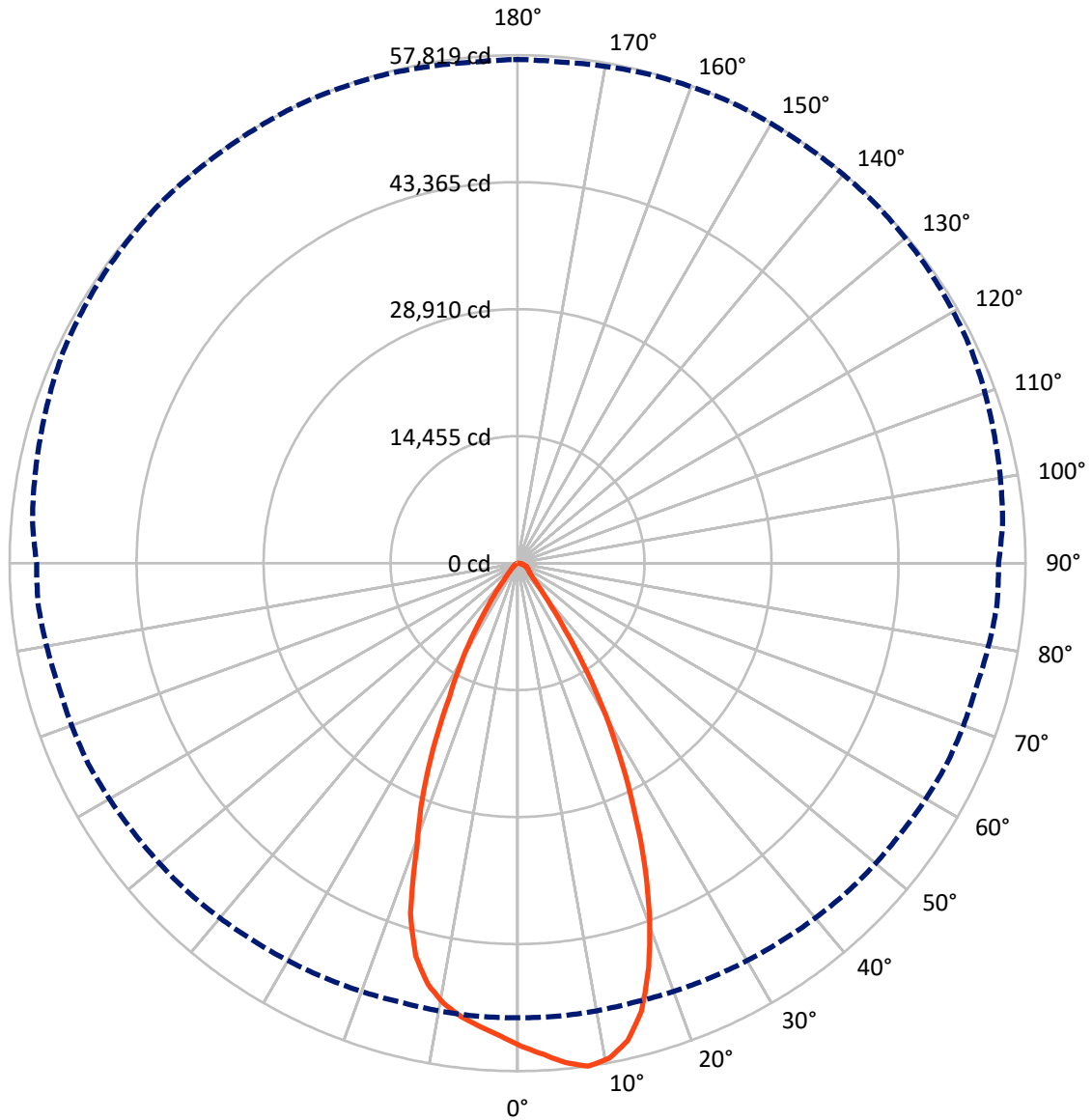
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 139.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 7.5-Deg Vertical

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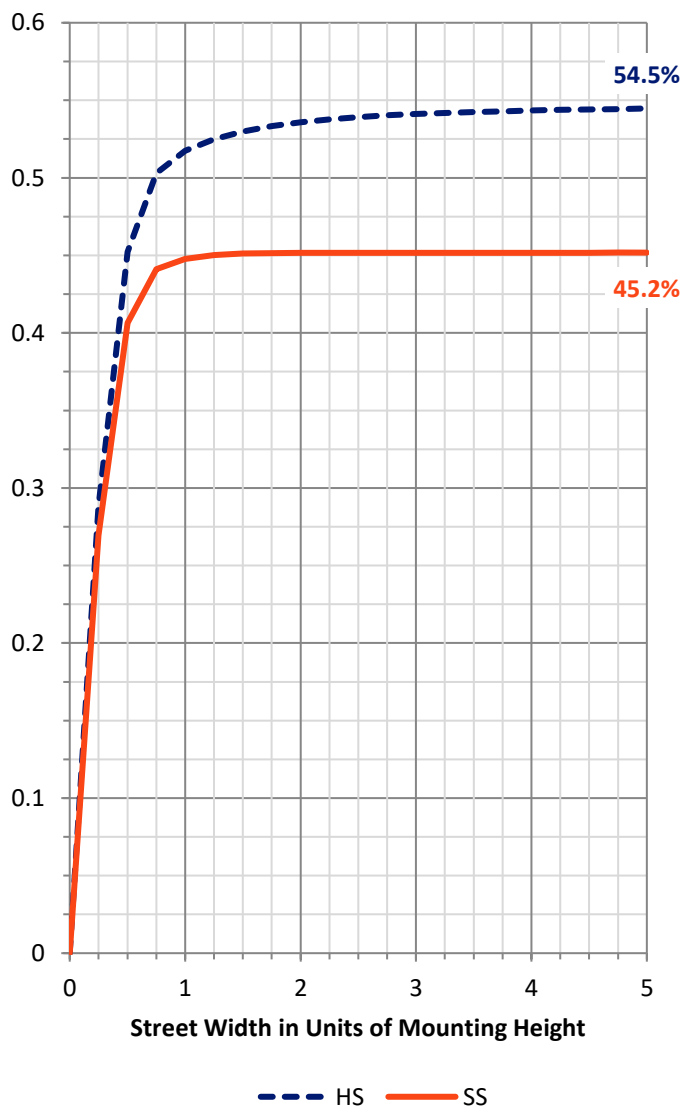
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21802.3	0.0	21802.3
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	17692.0	0.0	17692.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	39494.3	0.0	39494.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5246.4	13.3
10°-20°	13603.9	34.4
20°-30°	12465.0	31.6
30°-40°	5035.8	12.8
40°-50°	1477.3	3.7
50°-60°	826.0	2.1
60°-70°	501.7	1.3
70°-80°	254.9	0.6
80°-90°	83.4	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°	39494.3	100.0
0°-180°	39494.3	100.0



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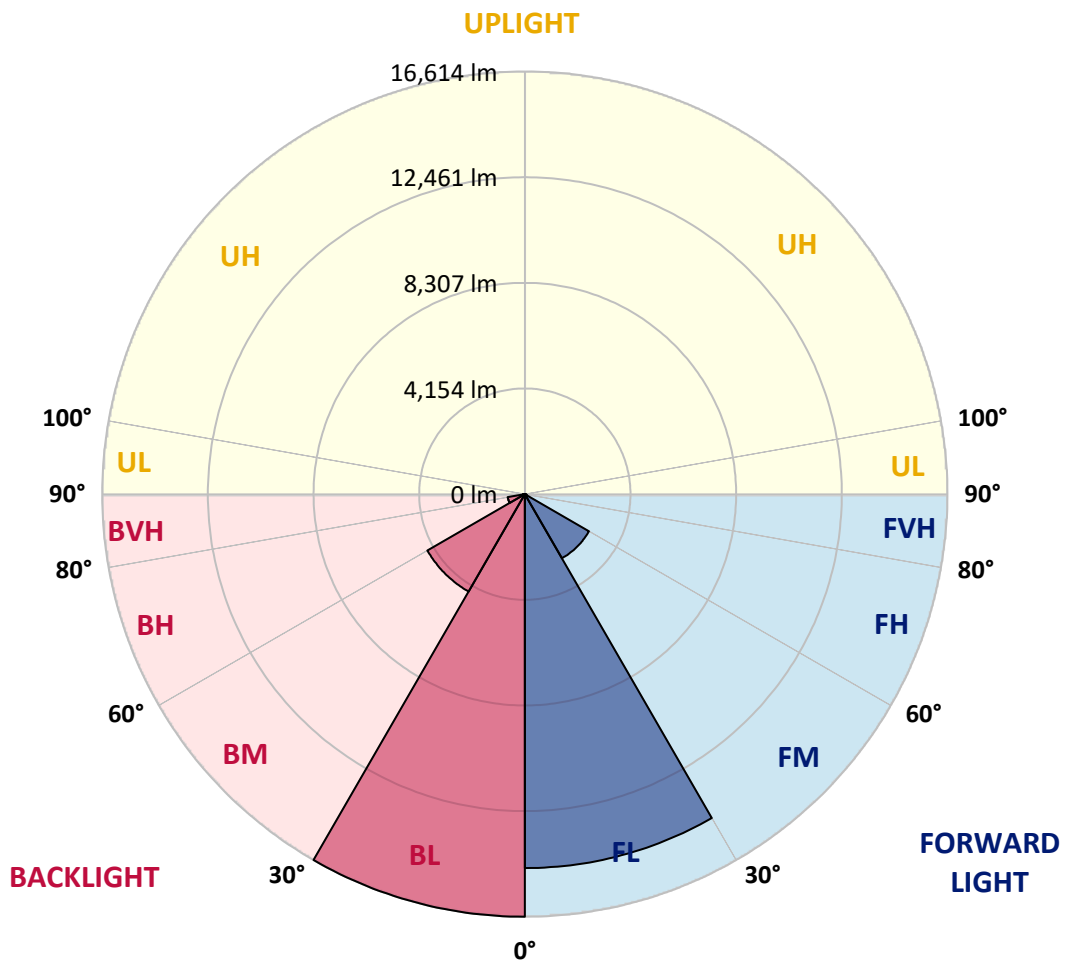
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	14700.8	37.2			
FM (30°-60°)	2913.4	7.4			
FH (60°-80°)	70.6	0.2			G0/660
FVH (80°-90°)	7.2	0.0			G0/10
BL (0°-30°)	16614.5	42.1	B5		
BM (30°-60°)	4425.7	11.2	B3/5000		
BH (60°-80°)	686.0	1.7	B2/1000		G2/1000
BVH (80°-90°)	76.1	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°	55018.6	55018.6	55018.6	55018.6	55018.6	55018.6	55018.6	55018.6	55018.6	55018.6
2.5°	53825.4	54007.6	53643.2	53884.6	54071.3	54517.6	54554.1	54708.9	54763.6	55168.9
5°	52805.3	52946.5	52650.4	52973.8	53237.9	53634.1	53939.3	54367.4	54604.2	55082.4
7.5°	51744.2	51776.0	51716.8	52058.4	52454.6	53001.1	53379.1	53939.3	54085.0	54768.1
10°	50459.9	50227.6	50341.5	50842.4	51434.5	52272.5	52532.0	53092.2	53351.8	54048.6
12.5°	48410.5	48528.9	48387.8	49025.3	49517.2	50469.0	50742.3	51307.0	51803.4	52418.2
15°	45523.2	45454.9	45741.8	46238.2	46771.0	47527.0	47968.8	48583.6	48961.6	49599.2
17.5°	39033.6	39265.8	40449.9	41693.2	42786.2	43669.7	44198.0	44708.0	44981.3	45673.5
20°	33709.8	33418.3	33577.7	34279.0	37389.5	38742.1	39297.7	39420.7	39534.5	40081.0
22.5°	27757.5	27661.9	28194.7	28982.6	29720.3	32839.9	33595.9	33309.0	33545.8	34060.4
25°	20612.0	21094.8	21568.4	23080.4	24036.8	25567.0	27001.5	27129.0	27215.6	27538.9
27.5°	16777.5	16609.0	16599.9	17023.4	18435.2	19710.3	20930.8	21213.2	21163.1	21472.8
30°	13188.8	13134.1	12942.9	13043.1	12901.9	14035.9	14609.7	15771.0	15707.2	15716.3
32.5°	9513.6	9308.7	9231.2	9381.5	9235.8	9131.1	9632.0	10943.6	10920.8	11011.9
35°	5756.4	5729.1	5792.9	5924.9	5633.5	5624.4	5729.1	6963.3	7113.6	7259.3
37.5°	3178.8	3151.5	3201.6	3688.9	3593.2	3506.7	3534.0	4185.3	4617.9	4727.2
40°	2094.9	2090.4	2126.8	2213.3	2377.3	2345.4	2359.0	2650.5	3060.4	3156.0
42.5°	1402.7	1407.2	1430.0	1530.2	1553.0	1716.9	1689.6	1757.9	2140.4	2222.4
45°	1120.3	1115.8	1129.4	1083.9	1111.2	1279.7	1297.9	1302.5	1630.4	1680.5
47.5°	883.5	883.5	897.2	838.0	824.3	929.0	1024.7	1038.3	1302.5	1370.8
50°	619.4	619.4	687.7	660.4	692.2	724.1	828.9	842.5	1065.7	1138.5
52.5°	455.4	464.5	473.6	478.2	582.9	578.4	669.5	733.2	806.1	933.6
55°	346.1	355.2	332.5	355.2	432.6	482.7	501.0	592.0	642.1	783.3
57.5°	227.7	250.5	232.3	273.2	291.5	373.4	400.8	487.3	519.2	642.1
60°	31.9	36.4	59.2	191.3	204.9	245.9	309.7	387.1	419.0	523.7
62.5°	4.6	4.6	13.7	31.9	136.6	163.9	232.3	268.7	309.7	391.7
65°	0.0	0.0	4.6	9.1	27.3	95.6	118.4	145.7	214.0	282.4
67.5°	0.0	0.0	4.6	9.1	13.7	31.9	50.1	95.6	123.0	195.8
70°	0.0	0.0	4.6	9.1	13.7	18.2	27.3	36.4	72.9	113.9
72.5°	0.0	0.0	4.6	9.1	13.7	18.2	22.8	27.3	31.9	72.9
75°	0.0	0.0	4.6	9.1	13.7	22.8	27.3	27.3	27.3	31.9
77.5°	0.0	0.0	4.6	9.1	18.2	27.3	31.9	27.3	22.8	22.8
80°	0.0	0.0	4.6	13.7	22.8	31.9	36.4	27.3	18.2	13.7
82.5°	0.0	0.0	4.6	13.7	22.8	31.9	36.4	31.9	18.2	13.7
85°	0.0	0.0	4.6	13.7	18.2	22.8	36.4	31.9	18.2	9.1
87.5°	0.0	0.0	0.0	4.6	4.6	9.1	18.2	13.7	9.1	4.6
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°
55018.6	0°	55018.6	55018.6	55018.6	55018.6	55018.6	55018.6	55018.6	55018.6	55018.6
55159.8	2.5°	55569.6	55774.6	56134.4	56234.6	56544.2	56189.0	55993.2	56011.4	55587.9
55023.2	5°	55569.6	56038.7	56667.2	56967.8	57195.5	57177.3	57127.2	56999.7	56690.0
54749.9	7.5°	55423.9	56189.0	57054.3	57455.1	57728.3	57705.5	57819.4	57614.5	57236.5
54262.6	10°	54954.8	55619.7	56685.4	57013.3	57455.1	57464.2	57323.0	57364.0	56690.0
52481.9	12.5°	53479.3	53998.5	54932.1	55305.5	55842.9	55929.4	55774.6	55715.4	55077.8
49562.7	15°	50623.9	50924.4	51862.6	52236.0	52768.9	52696.0	52850.8	52787.1	52226.9
45618.8	17.5°	46447.7	46543.3	47527.0	47841.3	48342.2	48538.1	48305.8	48601.8	48119.1
40176.6	20°	40459.0	40973.6	42080.3	42563.0	42854.5	43205.2	42900.0	43232.5	42667.8
33573.1	22.5°	34383.8	34688.9	35690.8	36387.6	36929.5	36997.9	36884.0	37116.3	36355.7
27752.9	25°	27748.4	28253.9	29046.3	29957.2	30490.0	30817.9	30521.9	30672.2	30549.2
21522.9	27.5°	21887.2	22338.1	22934.7	23613.2	24414.8	24842.8	24606.0	24861.1	24259.9
16048.8	30°	16062.5	16290.2	16964.2	17683.7	18562.7	19081.9	19104.6	19364.2	19009.0
11244.2	32.5°	11326.2	11526.5	11941.0	12419.1	13257.1	13835.5	13744.4	13780.8	13562.2
7327.6	35°	7364.0	7632.7	7928.8	8156.5	8662.0	9299.6	9249.5	9203.9	9053.6
4818.3	37.5°	4923.0	5027.8	5191.7	5396.7	5724.6	6125.3	6257.4	6093.4	6029.7
3251.7	40°	3329.1	3511.2	3620.5	3775.4	3930.2	4267.2	4358.3	4326.4	4262.7
2277.1	42.5°	2363.6	2504.8	2641.4	2791.7	2873.7	3083.2	3260.8	3210.7	3183.3
1730.6	45°	1794.3	1921.8	2081.2	2195.1	2277.1	2400.0	2568.5	2586.8	2545.8
1389.0	47.5°	1439.1	1553.0	1680.5	1821.7	1917.3	1994.7	2140.4	2195.1	2167.8
1170.4	50°	1220.5	1307.0	1430.0	1571.2	1675.9	1744.2	1871.8	1931.0	1912.7
979.1	52.5°	1038.3	1143.1	1256.9	1375.4	1502.9	1571.2	1689.6	1776.1	1762.5
810.6	55°	860.7	997.4	1115.8	1234.2	1379.9	1448.2	1553.0	1666.8	1644.0
687.7	57.5°	751.4	865.3	988.2	1102.1	1256.9	1348.0	1443.7	1562.1	1557.5
564.7	60°	628.5	742.3	878.9	974.6	1138.5	1266.1	1352.6	1475.5	1484.7
428.1	62.5°	501.0	642.1	746.9	878.9	1029.2	1179.5	1261.5	1384.5	1430.0
327.9	65°	373.4	528.3	646.7	778.8	919.9	1088.4	1161.3	1284.3	1329.8
236.8	67.5°	277.8	396.2	546.5	660.4	819.7	965.5	1052.0	1165.9	1197.7
141.2	70°	209.5	305.1	455.4	555.6	719.6	838.0	924.5	1011.0	1052.0
95.6	72.5°	123.0	227.7	359.8	478.2	619.4	719.6	783.3	851.6	878.9
45.5	75°	86.5	173.1	282.4	396.2	501.0	582.9	642.1	701.3	728.7
22.8	77.5°	45.5	127.5	223.2	318.8	391.7	460.0	519.2	564.7	582.9
18.2	80°	27.3	91.1	182.2	250.5	300.6	359.8	419.0	450.9	446.3
13.7	82.5°	18.2	72.9	132.1	182.2	218.6	264.1	305.1	327.9	327.9
9.1	85°	13.7	50.1	91.1	141.2	145.7	182.2	191.3	214.0	218.6
9.1	87.5°	9.1	31.9	50.1	82.0	77.4	95.6	100.2	113.9	123.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
55018.6
55246.3
56790.2
57323.0
56494.1
54932.1
52404.5
48000.7
42622.2
36251.0
30471.8
24414.8
19072.7
13685.2
8921.6
6016.0
4271.8
3160.6
2541.2
2154.1
1908.2
1753.3
1644.0
1553.0
1484.7
1425.4
1325.3
1197.7
1042.9
869.8
719.6
578.4
441.8
323.3
214.0
118.4
0.0

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