

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: P637771

Luminaire Tested: **IFLD-M-SA4E-830-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637771
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-830-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27023.1 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 314.8
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



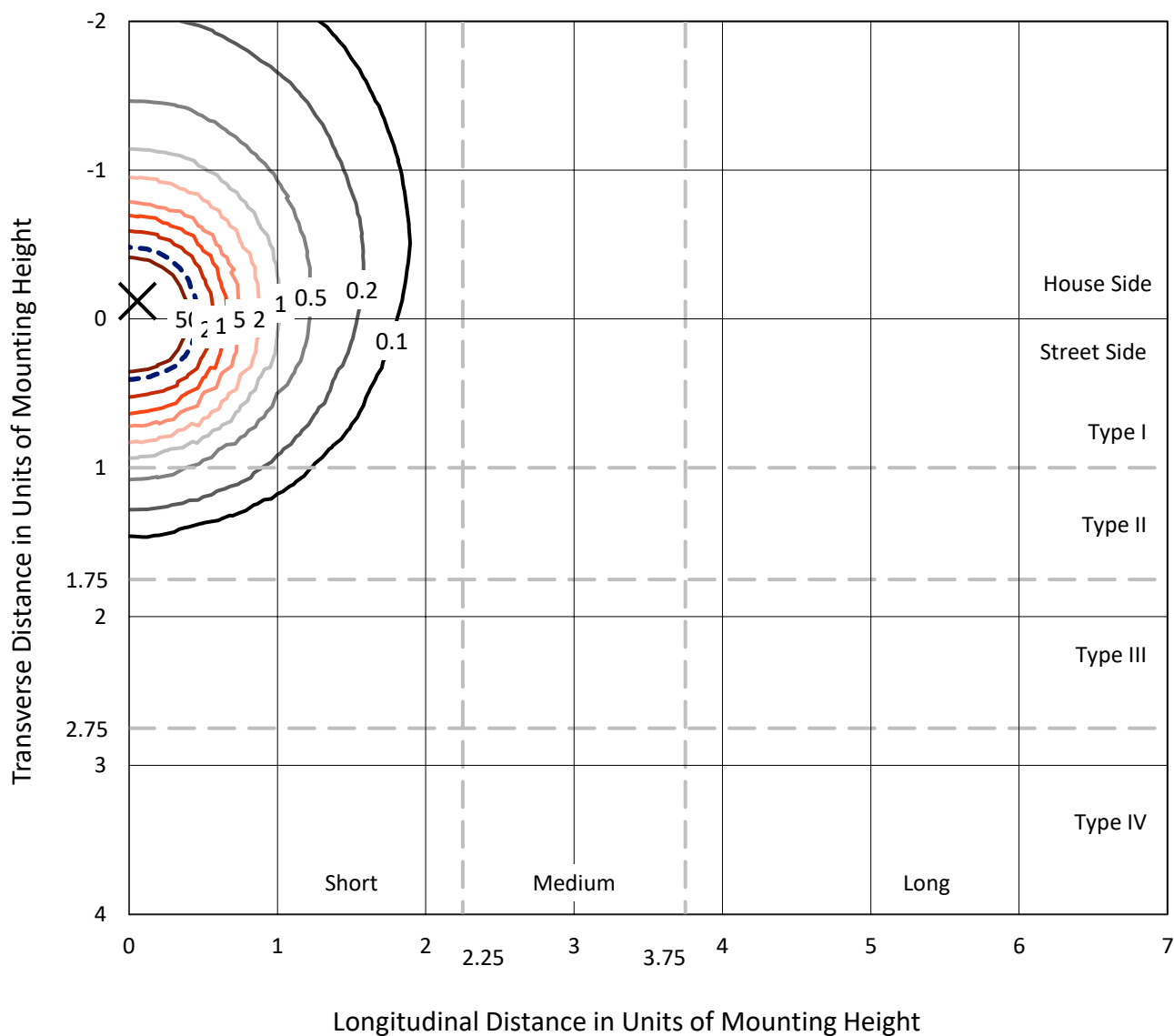
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

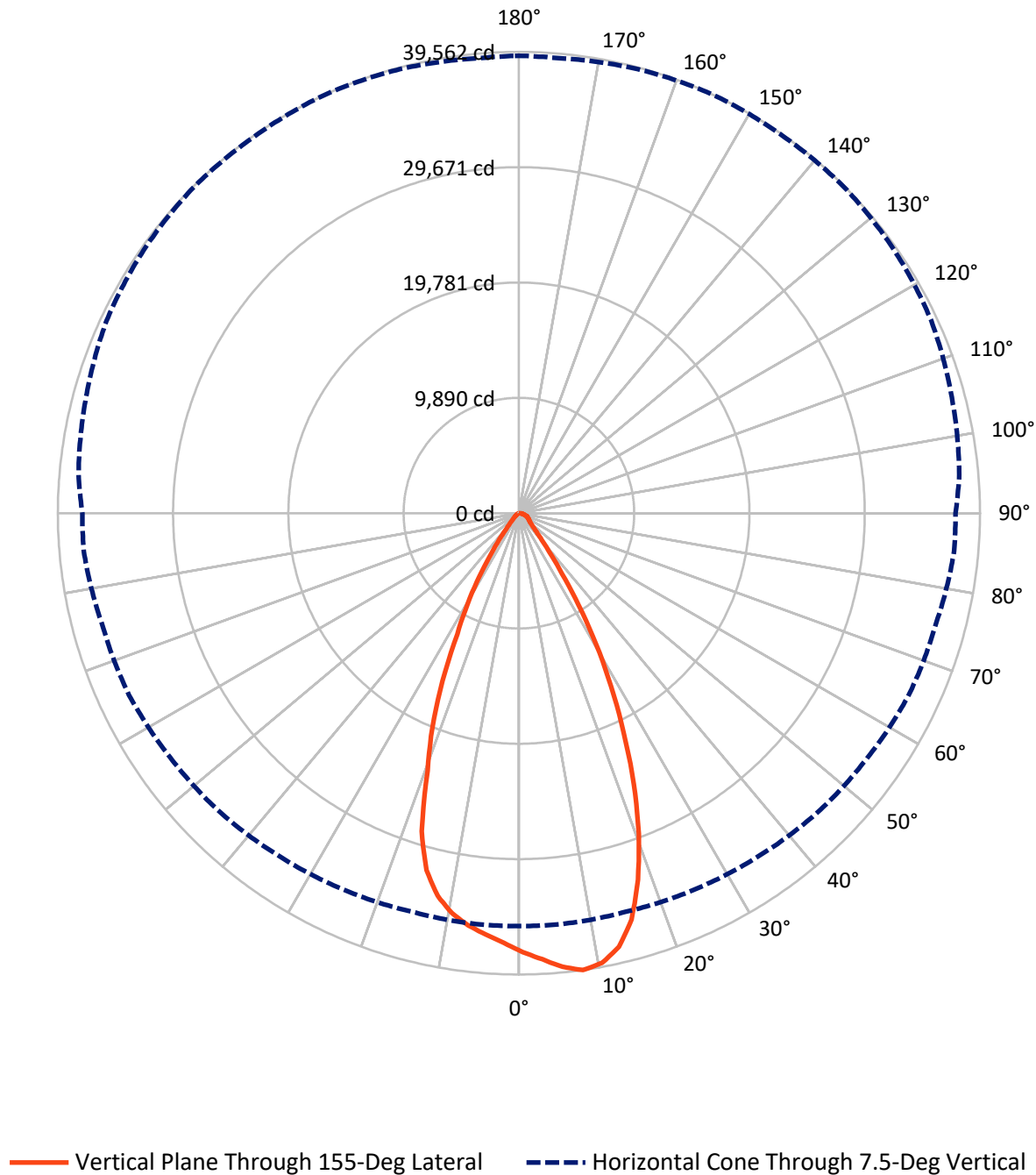


Based on 20 foot mounting height. Maximum calculated value = 95.7 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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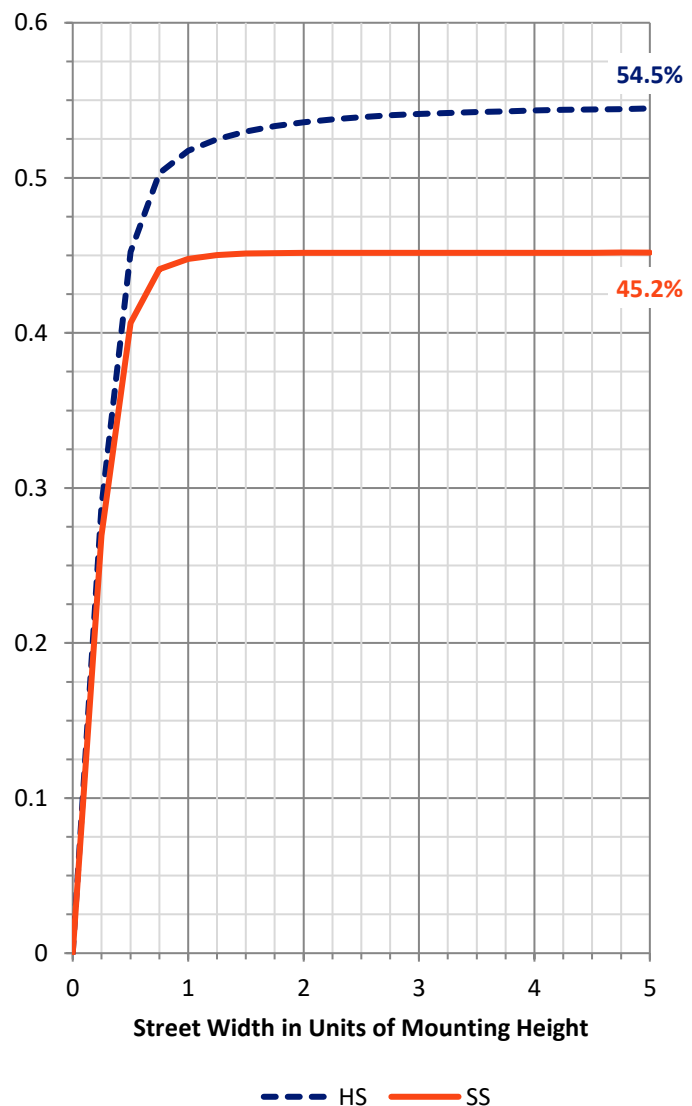
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14917.8	0.0	14917.8
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	12105.4	0.0	12105.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	27023.1	0.0	27023.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3589.7	13.3
10°-20°	9308.2	34.4
20°-30°	8528.9	31.6
30°-40°	3445.7	12.8
40°-50°	1010.8	3.7
50°-60°	565.2	2.1
60°-70°	343.3	1.3
70°-80°	174.4	0.6
80°-90°	57.0	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°	27023.1	100.0
0°-180°	27023.1	100.0

Coefficient of Utilization



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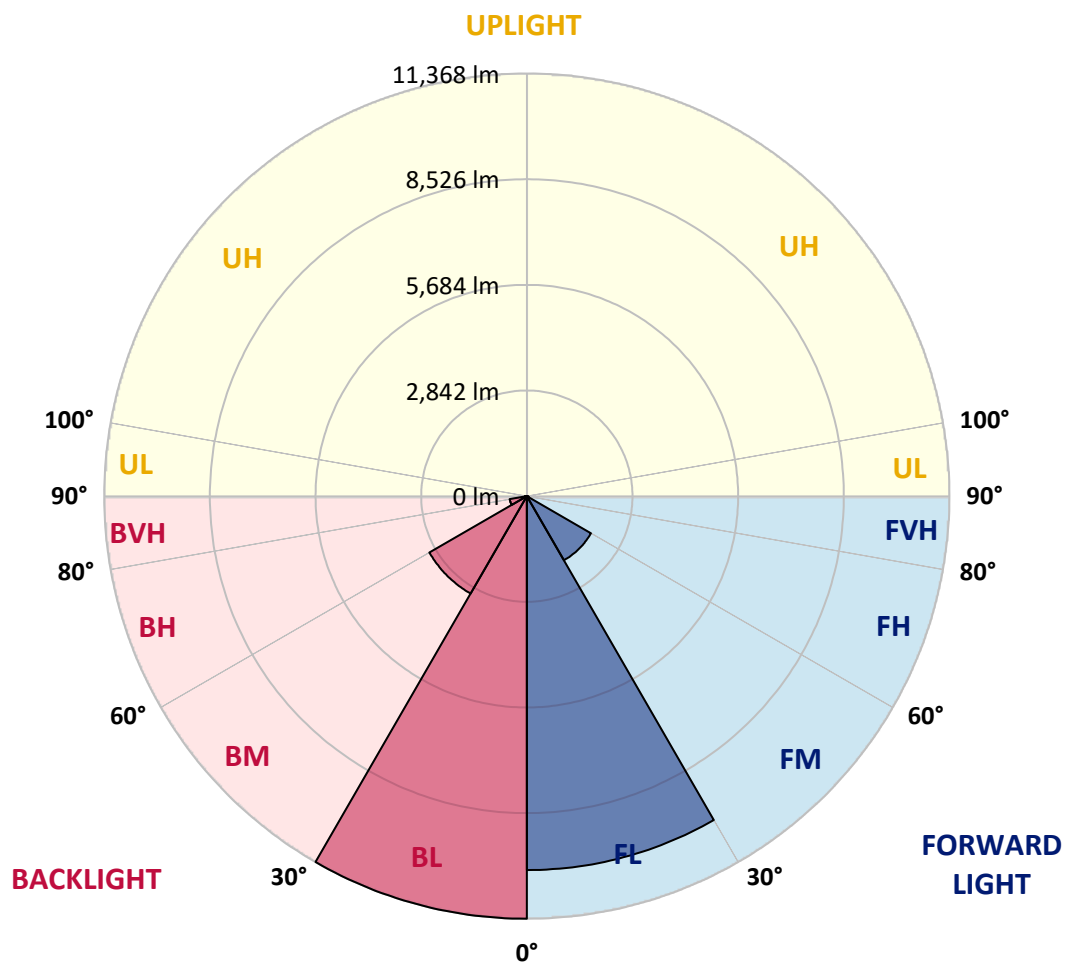
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	10058.7	37.2			
FM	(30°-60°)	1993.5	7.4			
FH	(60°-80°)	48.3	0.2			G0/660
FVH	(80°-90°)	4.9	0.0			G0/10
BL	(0°-30°)	11368.1	42.1	B5		
BM	(30°-60°)	3028.2	11.2	B3/5000		
BH	(60°-80°)	469.4	1.7	B1/500		G1/500
BVH	(80°-90°)	52.1	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-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	37645.3	37645.3	37645.3	37645.3	37645.3	37645.3	37645.3	37645.3	37645.3	37645.3
2.5°	36828.9	36953.6	36704.3	36869.4	36997.2	37302.6	37327.5	37433.4	37470.8	37748.1
5°	36130.9	36227.5	36025.0	36246.2	36426.9	36698.0	36906.8	37199.7	37361.8	37688.9
7.5°	35404.9	35426.7	35386.2	35619.9	35891.0	36264.9	36523.5	36906.8	37006.5	37473.9
10°	34526.1	34367.2	34445.1	34787.9	35193.0	35766.3	35943.9	36327.2	36504.8	36981.6
12.5°	33123.9	33204.9	33108.3	33544.6	33881.1	34532.4	34719.3	35105.7	35445.4	35866.0
15°	31148.3	31101.6	31297.9	31637.5	32002.1	32519.4	32821.6	33242.3	33500.9	33937.2
17.5°	26707.9	26866.8	27677.0	28527.7	29275.5	29880.1	30241.5	30590.5	30777.5	31251.1
20°	23065.2	22865.8	22974.8	23454.7	25583.0	26508.5	26888.6	26972.8	27050.7	27424.6
22.5°	18992.5	18927.0	19291.6	19830.7	20335.5	22470.0	22987.3	22791.0	22953.0	23305.1
25°	14103.4	14433.7	14757.7	15792.3	16446.7	17493.7	18475.2	18562.5	18621.7	18842.9
27.5°	11479.6	11364.3	11358.1	11647.9	12613.9	13486.4	14321.5	14514.7	14480.4	14692.3
30°	9024.2	8986.8	8855.9	8924.4	8827.8	9603.7	9996.4	10791.0	10747.3	10753.6
32.5°	6509.5	6369.3	6316.3	6419.1	6319.4	6247.7	6590.5	7487.9	7472.4	7534.7
35°	3938.7	3920.0	3963.6	4054.0	3854.6	3848.4	3920.0	4764.5	4867.3	4967.0
37.5°	2175.0	2156.3	2190.6	2524.0	2458.6	2399.4	2418.1	2863.7	3159.7	3234.5
40°	1433.4	1430.3	1455.2	1514.4	1626.6	1604.8	1614.1	1813.6	2094.0	2159.4
42.5°	959.8	962.9	978.4	1047.0	1062.6	1174.8	1156.1	1202.8	1464.6	1520.6
45°	766.6	763.4	772.8	741.6	760.3	875.6	888.1	891.2	1115.6	1149.8
47.5°	604.5	604.5	613.9	573.4	564.0	635.7	701.1	710.5	891.2	937.9
50°	423.8	423.8	470.5	451.8	473.6	495.5	567.1	576.5	729.2	779.0
52.5°	311.6	317.8	324.1	327.2	398.9	395.7	458.1	501.7	551.5	638.8
55°	236.8	243.1	227.5	243.1	296.0	330.3	342.8	405.1	439.4	536.0
57.5°	155.8	171.4	158.9	187.0	199.4	255.5	274.2	333.4	355.2	439.4
60°	21.8	24.9	40.5	130.9	140.2	168.3	211.9	264.9	286.7	358.3
62.5°	3.1	3.1	9.3	21.8	93.5	112.2	158.9	183.8	211.9	268.0
65°	0.0	0.0	3.1	6.2	18.7	65.4	81.0	99.7	146.5	193.2
67.5°	0.0	0.0	3.1	6.2	9.3	21.8	34.3	65.4	84.1	134.0
70°	0.0	0.0	3.1	6.2	9.3	12.5	18.7	24.9	49.9	77.9
72.5°	0.0	0.0	3.1	6.2	9.3	12.5	15.6	18.7	21.8	49.9
75°	0.0	0.0	3.1	6.2	9.3	15.6	18.7	18.7	18.7	21.8
77.5°	0.0	0.0	3.1	6.2	12.5	18.7	21.8	18.7	15.6	15.6
80°	0.0	0.0	3.1	9.3	15.6	21.8	24.9	18.7	12.5	9.3
82.5°	0.0	0.0	3.1	9.3	15.6	21.8	24.9	21.8	12.5	9.3
85°	0.0	0.0	3.1	9.3	12.5	15.6	24.9	21.8	12.5	6.2
87.5°	0.0	0.0	0.0	3.1	3.1	6.2	12.5	9.3	6.2	3.1
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°
37645.3	0°	37645.3	37645.3	37645.3	37645.3	37645.3	37645.3	37645.3	37645.3	37645.3
37741.9	2.5°	38022.4	38162.6	38408.8	38477.3	38689.2	38446.2	38312.2	38324.6	38034.8
37648.4	5°	38022.4	38343.3	38773.3	38979.0	39134.8	39122.3	39088.1	39000.8	38788.9
37461.5	7.5°	37922.6	38446.2	39038.2	39312.4	39499.4	39483.8	39561.7	39421.5	39162.8
37128.1	10°	37601.7	38056.6	38785.8	39010.2	39312.4	39318.7	39222.1	39250.1	38788.9
35909.7	12.5°	36592.1	36947.3	37586.1	37841.6	38209.3	38268.5	38162.6	38122.1	37685.8
33912.3	15°	34638.3	34844.0	35485.9	35741.4	36106.0	36056.1	36162.1	36118.4	35735.2
31213.7	17.5°	31780.9	31846.3	32519.4	32734.4	33077.2	33211.1	33052.2	33254.8	32924.5
27490.0	20°	27683.2	28035.3	28792.5	29122.9	29322.3	29562.2	29353.4	29580.9	29194.5
22971.7	22.5°	23526.4	23735.2	24420.7	24897.5	25268.3	25315.0	25237.1	25396.0	24875.6
18989.4	25°	18986.3	19332.1	19874.3	20497.6	20862.1	21086.5	20883.9	20986.8	20902.6
14726.6	27.5°	14975.9	15284.4	15692.6	16156.9	16705.3	16998.2	16836.2	17010.7	16599.3
10981.1	30°	10990.4	11146.2	11607.4	12099.7	12701.1	13056.4	13071.9	13249.6	13006.5
7693.6	32.5°	7749.7	7886.8	8170.4	8497.5	9070.9	9466.6	9404.3	9429.2	9279.7
5013.8	35°	5038.7	5222.5	5425.1	5580.9	5926.8	6363.0	6328.8	6297.6	6194.8
3296.8	37.5°	3368.5	3440.1	3552.3	3692.6	3916.9	4191.1	4281.5	4169.3	4125.7
2224.9	40°	2277.9	2402.5	2477.3	2583.2	2689.2	2919.8	2982.1	2960.3	2916.6
1558.0	42.5°	1617.2	1713.8	1807.3	1910.2	1966.2	2109.6	2231.1	2196.8	2178.1
1184.1	45°	1227.7	1315.0	1424.0	1501.9	1558.0	1642.2	1757.5	1769.9	1741.9
950.4	47.5°	984.7	1062.6	1149.8	1246.4	1311.9	1364.8	1464.6	1501.9	1483.3
800.8	50°	835.1	894.3	978.4	1075.0	1146.7	1193.5	1280.7	1321.2	1308.8
670.0	52.5°	710.5	782.1	860.0	941.1	1028.3	1075.0	1156.1	1215.3	1205.9
554.7	55°	588.9	682.4	763.4	844.5	944.2	990.9	1062.6	1140.5	1124.9
470.5	57.5°	514.2	592.1	676.2	754.1	860.0	922.4	987.8	1068.8	1065.7
386.4	60°	430.0	507.9	601.4	666.8	779.0	866.3	925.5	1009.6	1015.8
292.9	62.5°	342.8	439.4	511.0	601.4	704.2	807.1	863.2	947.3	978.4
224.4	65°	255.5	361.5	442.5	532.8	629.4	744.7	794.6	878.7	909.9
162.0	67.5°	190.1	271.1	373.9	451.8	560.9	660.6	719.8	797.7	819.5
96.6	70°	143.3	208.8	311.6	380.2	492.3	573.4	632.6	691.8	719.8
65.4	72.5°	84.1	155.8	246.2	327.2	423.8	492.3	536.0	582.7	601.4
31.2	75°	59.2	118.4	193.2	271.1	342.8	398.9	439.4	479.9	498.6
15.6	77.5°	31.2	87.3	152.7	218.1	268.0	314.7	355.2	386.4	398.9
12.5	80°	18.7	62.3	124.6	171.4	205.7	246.2	286.7	308.5	305.4
9.3	82.5°	12.5	49.9	90.4	124.6	149.6	180.7	208.8	224.4	224.4
6.2	85°	9.3	34.3	62.3	96.6	99.7	124.6	130.9	146.5	149.6
6.2	87.5°	6.2	21.8	34.3	56.1	53.0	65.4	68.6	77.9	84.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
37645.3
37801.1
38857.5
39222.1
38654.9
37586.1
35856.7
32843.4
29163.4
24804.0
20849.7
16705.3
13050.1
9363.8
6104.4
4116.3
2922.9
2162.6
1738.8
1473.9
1305.6
1199.7
1124.9
1062.6
1015.8
975.3
906.8
819.5
713.6
595.2
492.3
395.7
302.3
221.2
146.5
81.0
0.0

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