

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: P637618

Luminaire Tested: **IFLD-S-SA6B-735-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637618
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-735-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30925.4 lumens
Efficiency: N/A
Efficacy: 126.3 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): 244.9
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



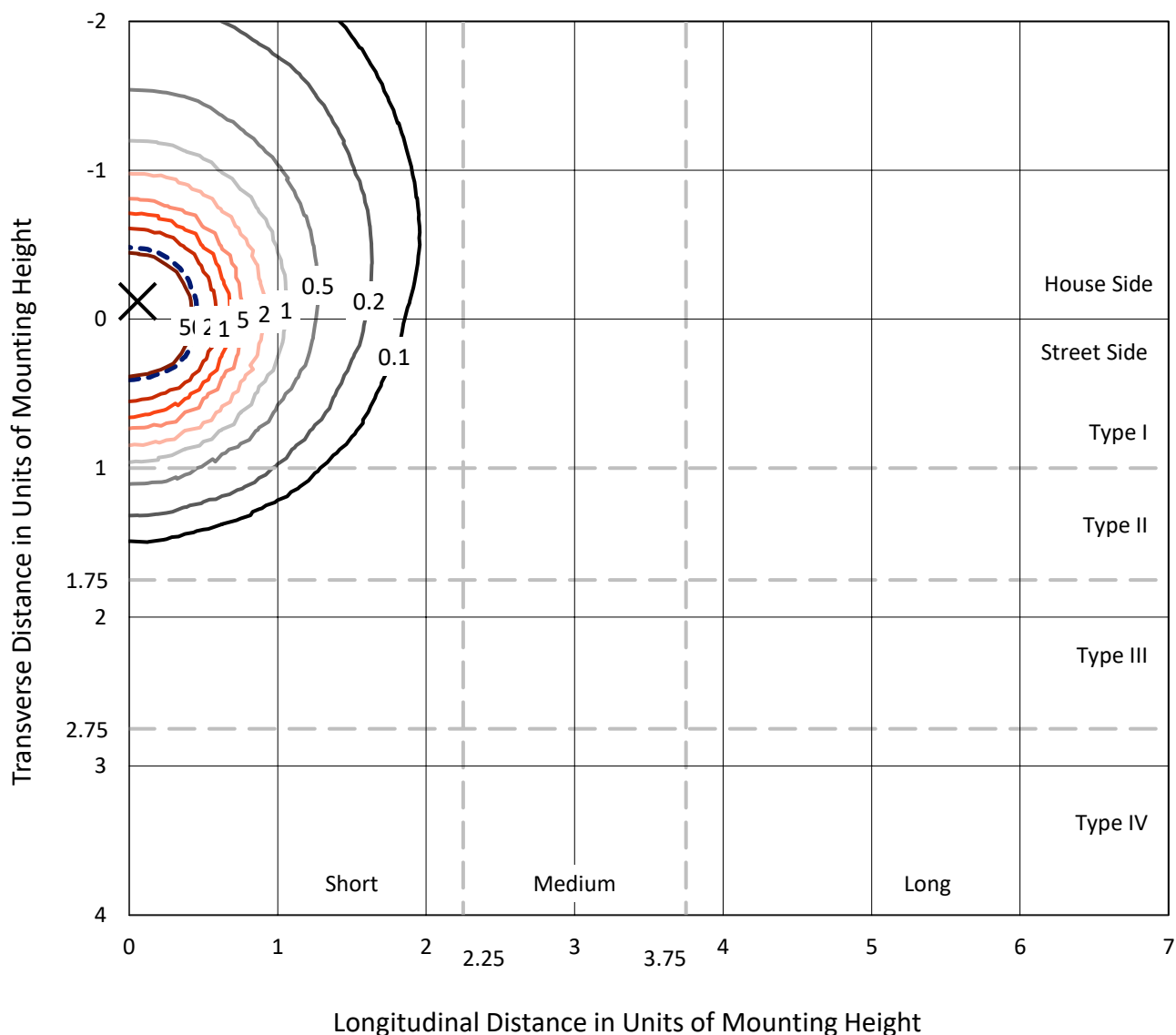
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

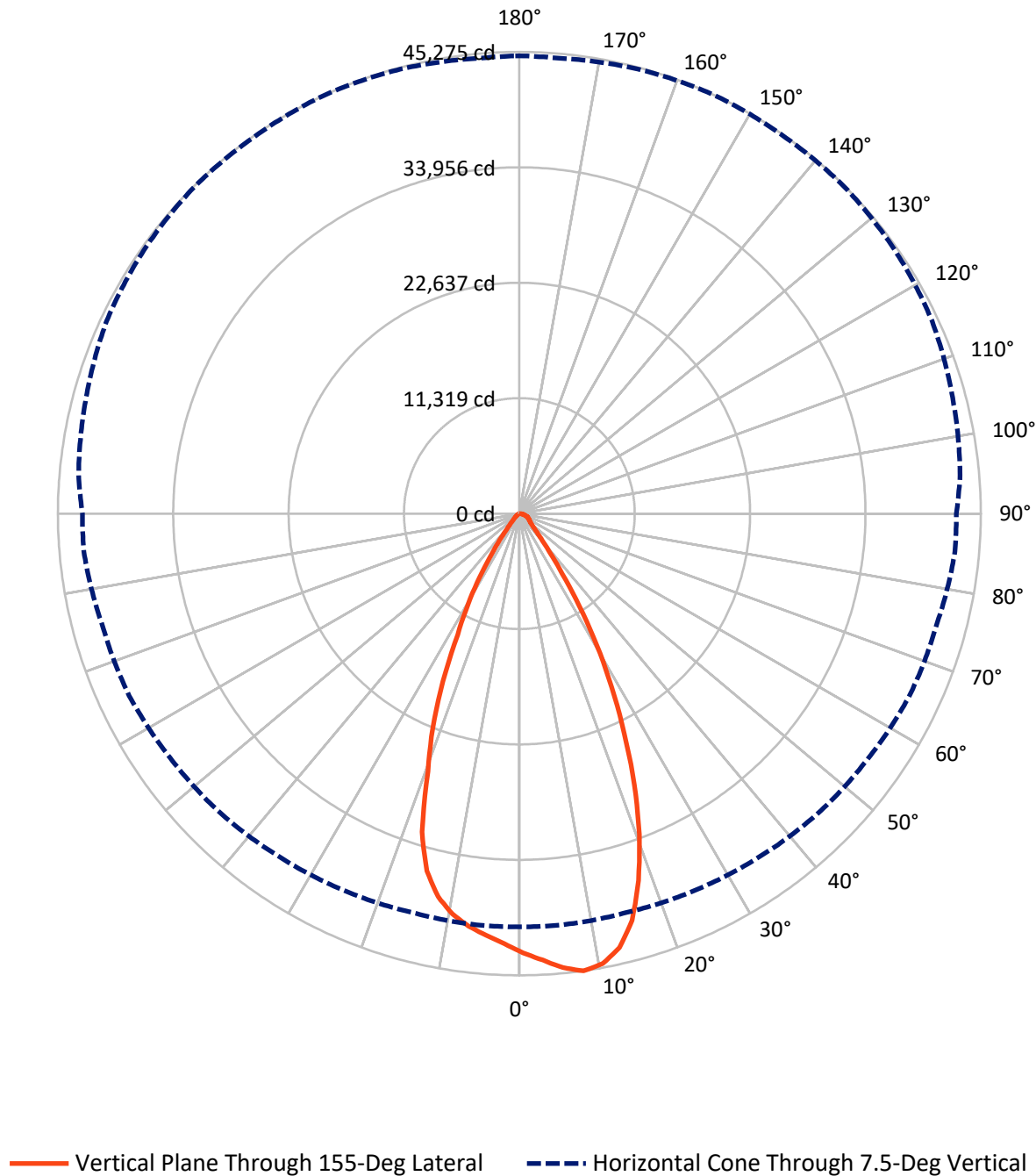


Based on 20 foot mounting height. Maximum calculated value = 109.5 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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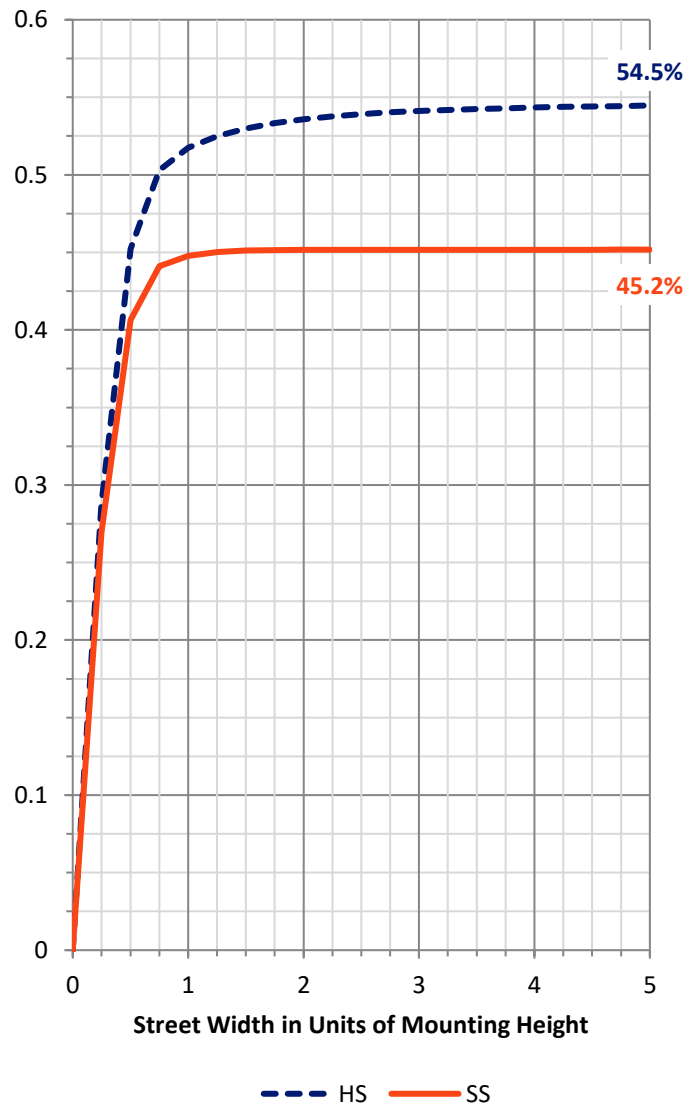
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17071.9	0.0	17071.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	13853.4	0.0	13853.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	30925.4	0.0	30925.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4108.1	13.3
10°-20°	10652.3	34.4
20°-30°	9760.5	31.6
30°-40°	3943.2	12.8
40°-50°	1156.8	3.7
50°-60°	646.8	2.1
60°-70°	392.8	1.3
70°-80°	199.6	0.6
80°-90°	65.3	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°	30925.4	100.0
0°-180°	30925.4	100.0

Coefficient of Utilization



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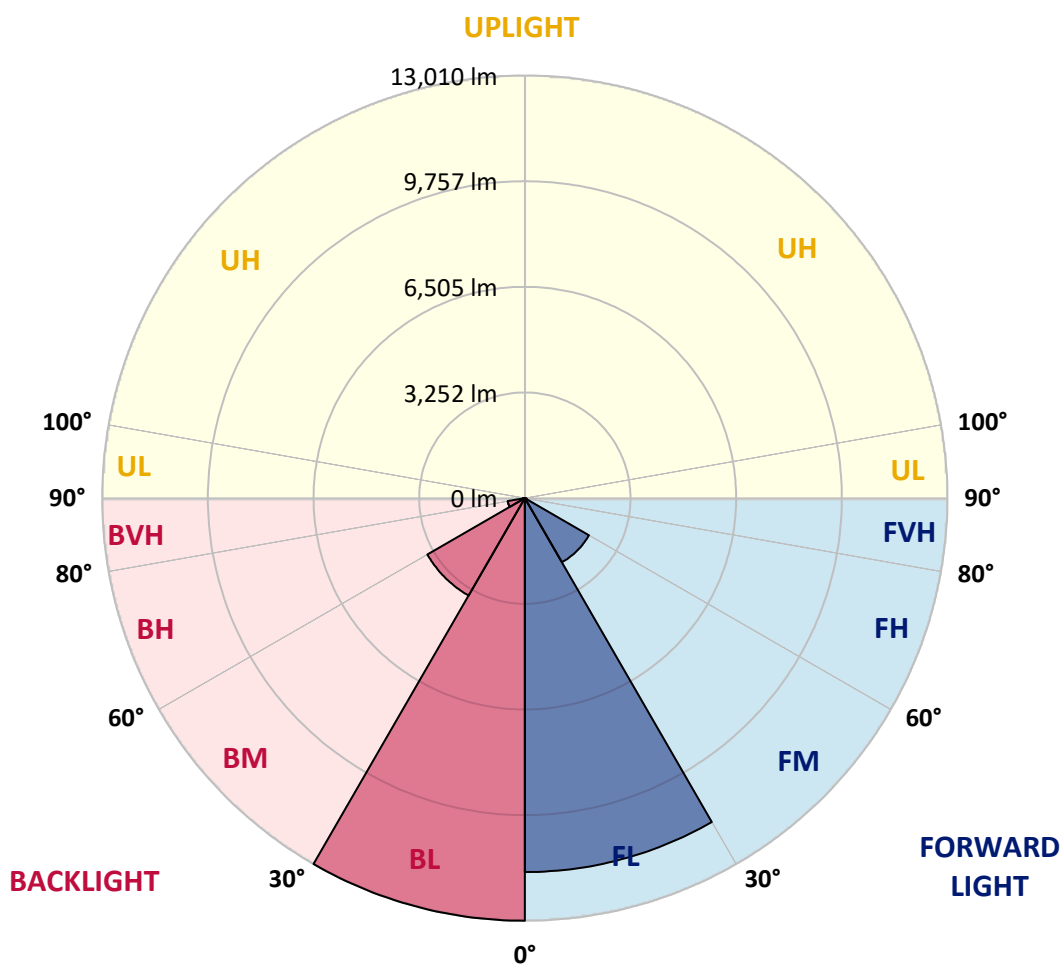
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	11511.2	37.2			
FM	(30°-60°)	2281.3	7.4			
FH	(60°-80°)	55.3	0.2			G0/660
FVH	(80°-90°)	5.7	0.0			G0/10
BL	(0°-30°)	13009.7	42.1	B5		
BM	(30°-60°)	3465.5	11.2	B3/5000		
BH	(60°-80°)	537.2	1.7	B2/1000		G2/1000
BVH	(80°-90°)	59.6	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°	43081.4	43081.4	43081.4	43081.4	43081.4	43081.4	43081.4	43081.4	43081.4	43081.4
2.5°	42147.1	42289.7	42004.5	42193.5	42339.7	42689.1	42717.7	42838.9	42881.7	43199.1
5°	41348.3	41458.9	41227.1	41480.3	41687.1	41997.3	42236.3	42571.5	42756.9	43131.3
7.5°	40517.4	40542.4	40496.0	40763.5	41073.7	41501.7	41797.6	42236.3	42350.4	42885.3
10°	39511.8	39329.9	39419.1	39811.3	40274.9	40931.1	41134.4	41573.0	41776.2	42321.8
12.5°	37907.1	37999.8	37889.2	38388.5	38773.6	39518.9	39732.9	40175.1	40563.8	41045.2
15°	35646.2	35592.7	35817.4	36206.1	36623.3	37215.3	37561.2	38042.6	38338.6	38837.8
17.5°	30564.6	30746.5	31673.6	32647.2	33503.0	34194.8	34608.5	35007.9	35221.8	35763.9
20°	26395.9	26167.7	26292.5	26841.6	29277.2	30336.4	30771.4	30867.7	30956.9	31384.8
22.5°	21735.1	21660.2	22077.4	22694.3	23272.0	25714.8	26306.7	26082.1	26267.5	26670.5
25°	16139.9	16517.9	16888.8	18072.7	18821.6	20019.8	21143.1	21242.9	21310.7	21563.9
27.5°	13137.3	13005.4	12998.2	13329.9	14435.4	15433.9	16389.6	16610.6	16571.4	16813.9
30°	10327.3	10284.5	10134.7	10213.2	10102.6	10990.6	11439.9	12349.2	12299.3	12306.4
32.5°	7449.5	7289.0	7228.4	7346.1	7231.9	7149.9	7542.2	8569.2	8551.4	8622.7
35°	4507.5	4486.1	4536.0	4639.4	4411.2	4404.1	4486.1	5452.5	5570.2	5684.3
37.5°	2489.1	2467.7	2506.9	2888.5	2813.6	2745.9	2767.3	3277.2	3616.0	3701.6
40°	1640.4	1636.8	1665.3	1733.1	1861.5	1836.5	1847.2	2075.4	2396.4	2471.3
42.5°	1098.3	1101.9	1119.7	1198.2	1216.0	1344.4	1323.0	1376.5	1676.0	1740.2
45°	877.2	873.7	884.4	848.7	870.1	1002.1	1016.3	1019.9	1276.6	1315.9
47.5°	691.8	691.8	702.5	656.2	645.5	727.5	802.4	813.1	1019.9	1073.4
50°	485.0	485.0	538.5	517.1	542.0	567.0	649.0	659.7	834.5	891.5
52.5°	356.6	363.7	370.9	374.4	456.5	452.9	524.2	574.1	631.2	731.0
55°	271.0	278.2	260.3	278.2	338.8	378.0	392.3	463.6	502.8	613.4
57.5°	178.3	196.1	181.9	214.0	228.2	292.4	313.8	381.6	406.5	502.8
60°	25.0	28.5	46.4	149.8	160.5	192.6	242.5	303.1	328.1	410.1
62.5°	3.6	3.6	10.7	25.0	107.0	128.4	181.9	210.4	242.5	306.7
65°	0.0	0.0	3.6	7.1	21.4	74.9	92.7	114.1	167.6	221.1
67.5°	0.0	0.0	3.6	7.1	10.7	25.0	39.2	74.9	96.3	153.3
70°	0.0	0.0	3.6	7.1	10.7	14.3	21.4	28.5	57.1	89.2
72.5°	0.0	0.0	3.6	7.1	10.7	14.3	17.8	21.4	25.0	57.1
75°	0.0	0.0	3.6	7.1	10.7	17.8	21.4	21.4	21.4	25.0
77.5°	0.0	0.0	3.6	7.1	14.3	21.4	25.0	21.4	17.8	17.8
80°	0.0	0.0	3.6	10.7	17.8	25.0	28.5	21.4	14.3	10.7
82.5°	0.0	0.0	3.6	10.7	17.8	25.0	28.5	25.0	14.3	10.7
85°	0.0	0.0	3.6	10.7	14.3	17.8	28.5	25.0	14.3	7.1
87.5°	0.0	0.0	0.0	3.6	3.6	7.1	14.3	10.7	7.1	3.6
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°
43081.4	0°	43081.4	43081.4	43081.4	43081.4	43081.4	43081.4	43081.4	43081.4	43081.4
43192.0	2.5°	43512.9	43673.4	43955.1	44033.5	44276.0	43997.9	43844.5	43858.8	43527.2
43085.0	5°	43512.9	43880.2	44372.3	44607.7	44786.0	44771.7	44732.5	44632.6	44390.2
42871.0	7.5°	43398.8	43997.9	44675.4	44989.2	45203.2	45185.4	45274.5	45114.1	44818.1
42489.4	10°	43031.5	43552.1	44386.6	44643.3	44989.2	44996.4	44885.8	44917.9	44390.2
41095.1	12.5°	41876.1	42282.6	43013.7	43306.1	43726.9	43794.6	43673.4	43627.0	43127.8
38809.3	15°	39640.2	39875.5	40610.1	40902.6	41319.8	41262.7	41384.0	41334.0	40895.4
35721.1	17.5°	36370.1	36445.0	37215.3	37461.3	37853.6	38006.9	37825.1	38056.9	37678.9
31459.7	20°	31680.8	32083.7	32950.3	33328.3	33556.5	33831.1	33592.2	33852.5	33410.3
26288.9	22.5°	26923.7	27162.6	27947.1	28492.7	28917.1	28970.6	28881.4	29063.3	28467.8
21731.5	25°	21727.9	22123.8	22744.2	23457.5	23874.7	24131.4	23899.6	24017.3	23921.0
16853.1	27.5°	17138.4	17491.5	17958.6	18490.0	19117.6	19452.8	19267.4	19467.0	18996.3
12566.7	30°	12577.4	12755.7	13283.5	13847.0	14535.2	14941.7	14959.6	15162.8	14884.7
8804.6	32.5°	8868.8	9025.7	9350.2	9724.6	10380.8	10833.7	10762.3	10790.9	10619.7
5737.8	35°	5766.3	5976.7	6208.5	6386.8	6782.6	7281.9	7242.6	7207.0	7089.3
3772.9	37.5°	3854.9	3936.9	4065.3	4225.8	4482.5	4796.3	4899.7	4771.4	4721.4
2546.2	40°	2606.8	2749.4	2835.0	2956.3	3077.5	3341.4	3412.7	3387.7	3337.8
1783.0	42.5°	1850.8	1961.3	2068.3	2186.0	2250.2	2414.2	2553.3	2514.1	2492.7
1355.1	45°	1405.0	1504.9	1629.7	1718.8	1783.0	1879.3	2011.3	2025.5	1993.4
1087.6	47.5°	1126.9	1216.0	1315.9	1426.4	1501.3	1561.9	1676.0	1718.8	1697.4
916.5	50°	955.7	1023.5	1119.7	1230.3	1312.3	1365.8	1465.6	1512.0	1497.7
766.7	52.5°	813.1	895.1	984.2	1076.9	1176.8	1230.3	1323.0	1390.8	1380.1
634.8	55°	674.0	781.0	873.7	966.4	1080.5	1134.0	1216.0	1305.2	1287.3
538.5	57.5°	588.4	677.5	773.8	863.0	984.2	1055.5	1130.4	1223.2	1219.6
442.2	60°	492.1	581.3	688.2	763.1	891.5	991.4	1059.1	1155.4	1162.5
335.2	62.5°	392.3	502.8	584.8	688.2	805.9	923.6	987.8	1084.1	1119.7
256.8	65°	292.4	413.7	506.4	609.8	720.3	852.3	909.3	1005.6	1041.3
185.4	67.5°	217.5	310.2	427.9	517.1	641.9	756.0	823.8	912.9	937.9
110.5	70°	164.0	238.9	356.6	435.1	563.4	656.2	723.9	791.7	823.8
74.9	72.5°	96.3	178.3	281.7	374.4	485.0	563.4	613.4	666.9	688.2
35.7	75°	67.8	135.5	221.1	310.2	392.3	456.5	502.8	549.2	570.6
17.8	77.5°	35.7	99.8	174.7	249.6	306.7	360.2	406.5	442.2	456.5
14.3	80°	21.4	71.3	142.6	196.1	235.4	281.7	328.1	353.0	349.5
10.7	82.5°	14.3	57.1	103.4	142.6	171.2	206.8	238.9	256.8	256.8
7.1	85°	10.7	39.2	71.3	110.5	114.1	142.6	149.8	167.6	171.2
7.1	87.5°	7.1	25.0	39.2	64.2	60.6	74.9	78.5	89.2	96.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
43081.4
43259.7
44468.6
44885.8
44236.8
43013.7
41034.5
37586.1
33374.6
28385.7
23860.4
19117.6
14934.6
10716.0
6985.9
4710.7
3345.0
2474.8
1989.9
1686.7
1494.2
1372.9
1287.3
1216.0
1162.5
1116.2
1037.7
937.9
816.6
681.1
563.4
452.9
345.9
253.2
167.6
92.7
0.0

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