

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: P637756

Luminaire Tested: **IFLD-S-SA2E-830-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637756
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-830-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13509.4 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 156.2
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



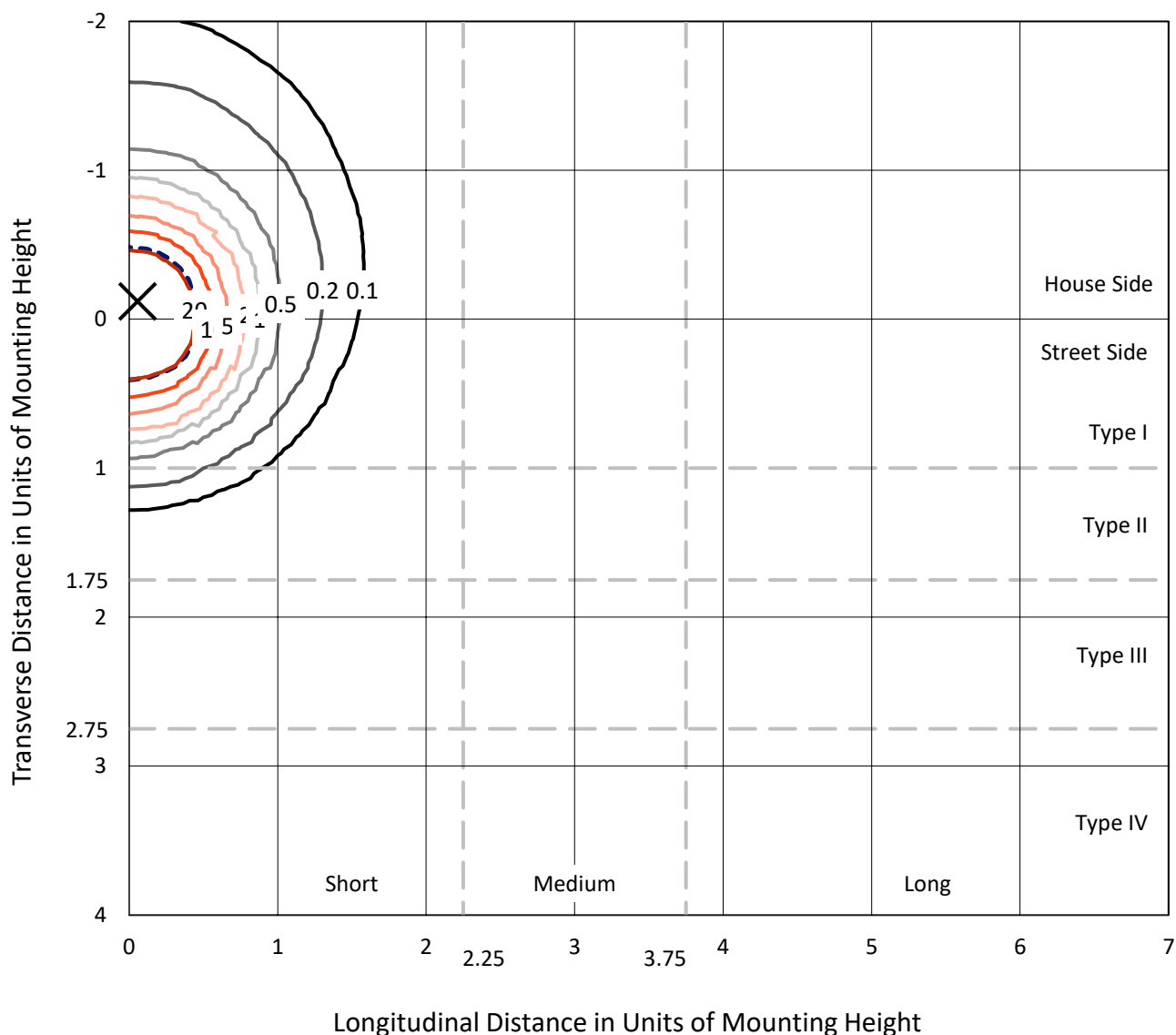
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



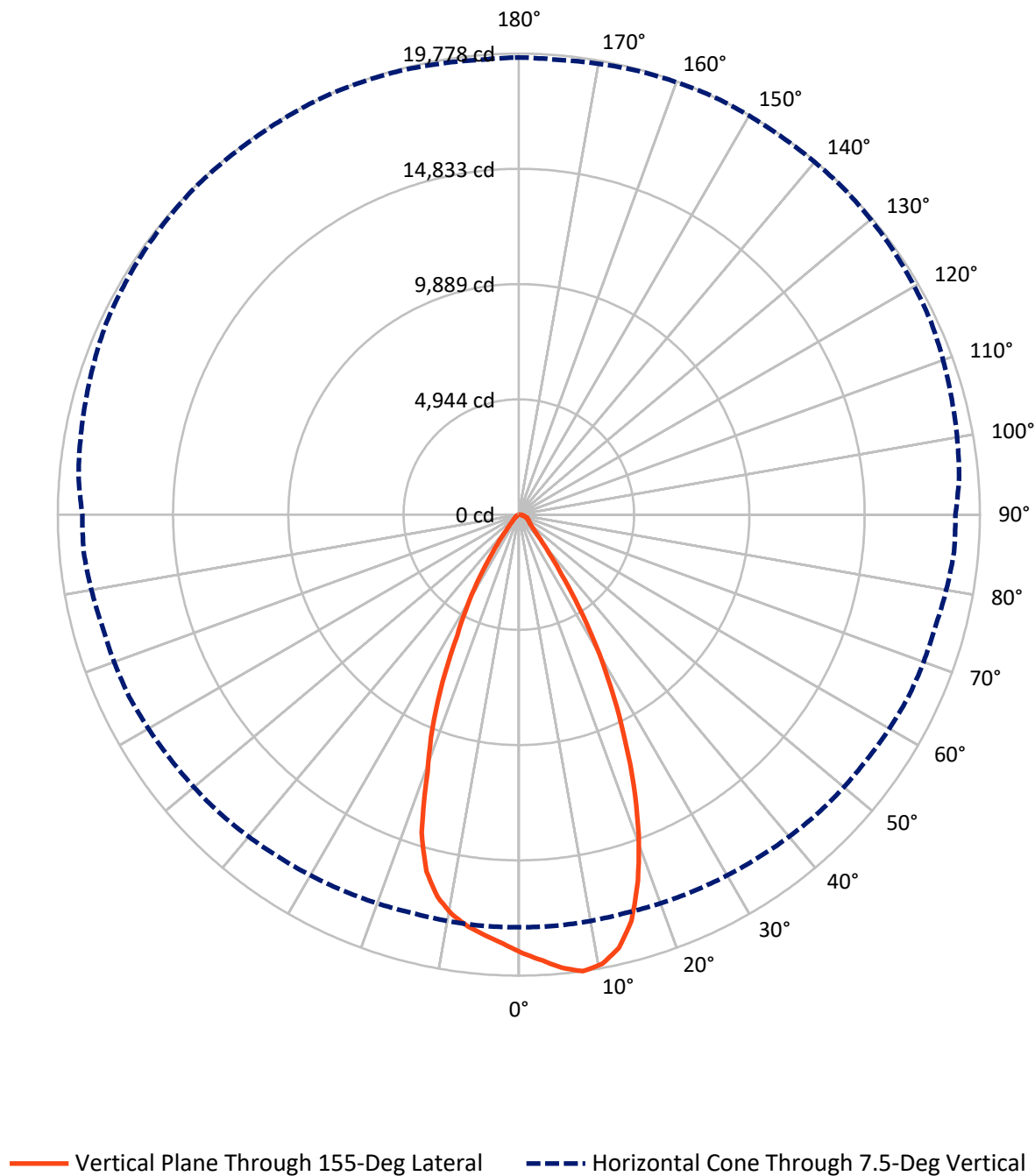
Based on 20 foot mounting height. Maximum calculated value = 47.8 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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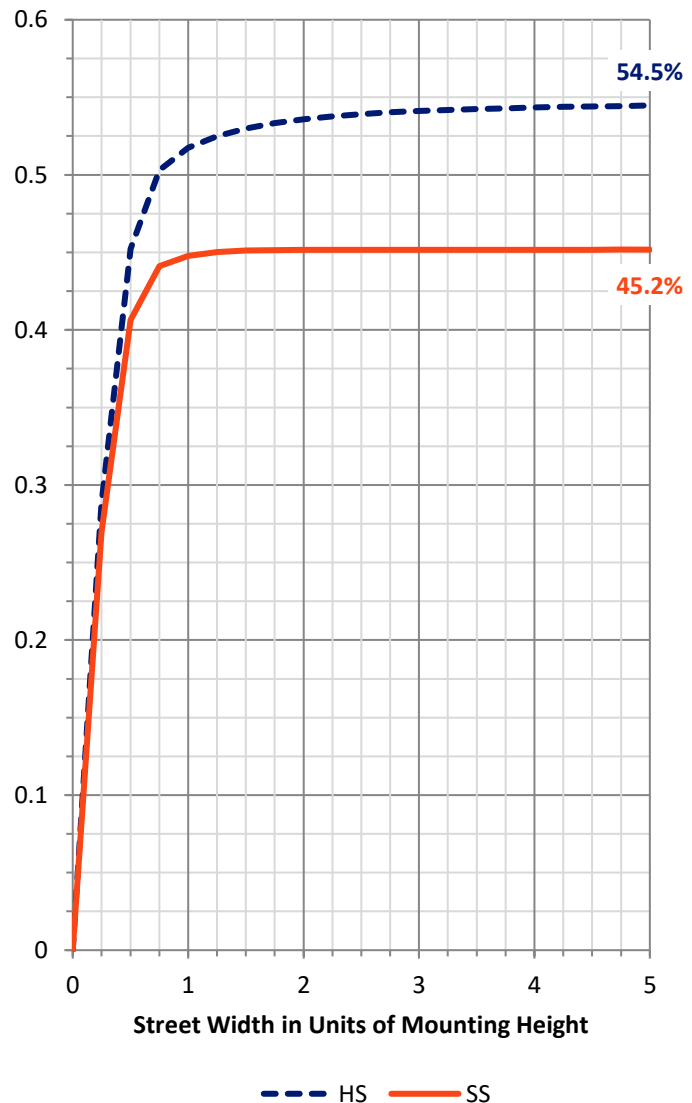
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7457.7	0.0	7457.7
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	6051.7	0.0	6051.7
	% Fixture	44.8	0.0	44.8
Total	Lumens	13509.4	0.0	13509.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1794.6	13.3
10°-20°	4653.3	34.4
20°-30°	4263.8	31.6
30°-40°	1722.6	12.8
40°-50°	505.3	3.7
50°-60°	282.5	2.1
60°-70°	171.6	1.3
70°-80°	87.2	0.6
80°-90°	28.5	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°	13509.4	100.0
0°-180°	13509.4	100.0

Coefficient of Utilization



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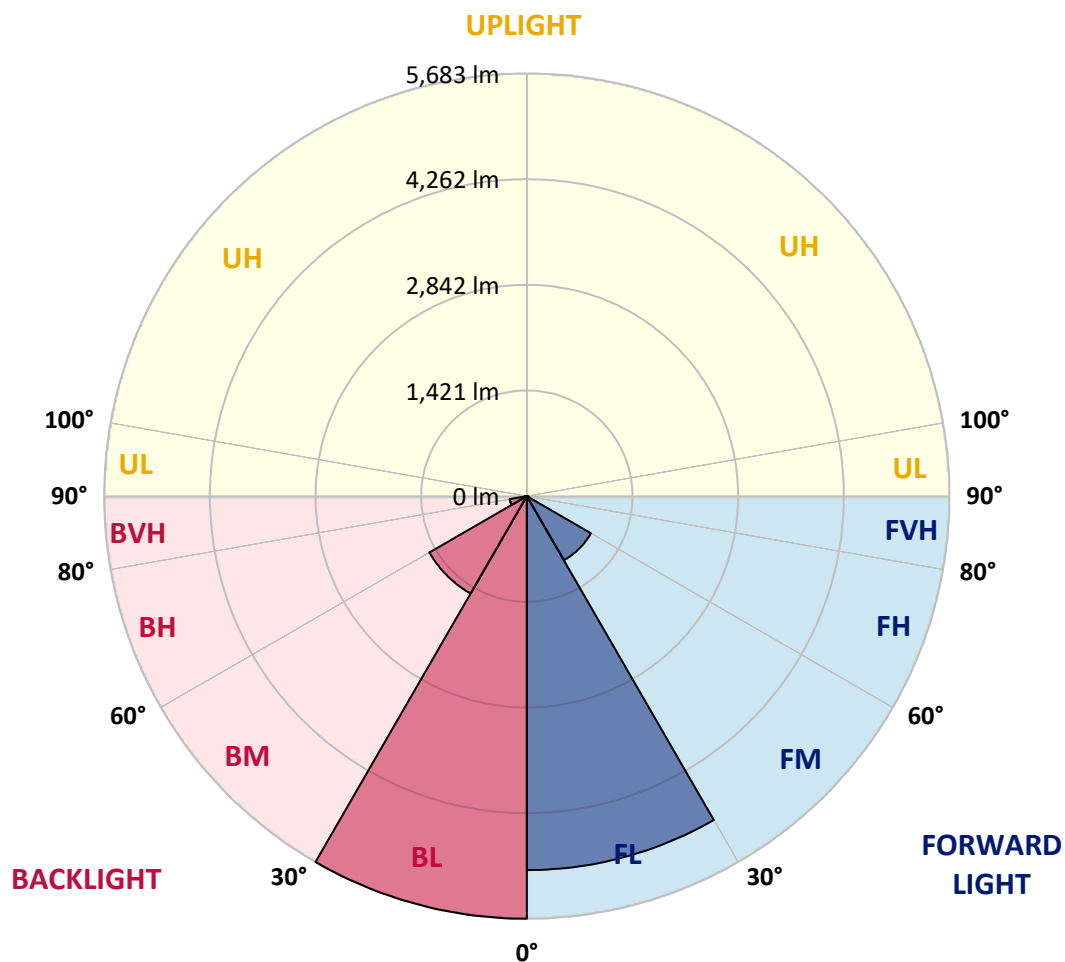
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5028.5	37.2			
FM	(30°-60°)	996.6	7.4			
FH	(60°-80°)	24.1	0.2			G0/660
FVH	(80°-90°)	2.5	0.0			G0/10
BL	(0°-30°)	5683.1	42.1	B5		
BM	(30°-60°)	1513.8	11.2	B2/2500		
BH	(60°-80°)	234.7	1.7	B1/500		G1/500
BVH	(80°-90°)	26.0	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°	18819.6	18819.6	18819.6	18819.6	18819.6	18819.6	18819.6	18819.6	18819.6	18819.6
2.5°	18411.5	18473.8	18349.2	18431.7	18495.6	18648.3	18660.7	18713.7	18732.4	18871.0
5°	18062.5	18110.8	18009.6	18120.2	18210.5	18346.0	18450.4	18596.9	18677.9	18841.4
7.5°	17699.6	17710.5	17690.2	17807.1	17942.6	18129.5	18258.8	18450.4	18500.3	18733.9
10°	17260.3	17180.8	17219.8	17391.1	17593.6	17880.3	17969.1	18160.7	18249.5	18487.8
12.5°	16559.3	16599.8	16551.5	16769.6	16937.8	17263.4	17356.9	17550.0	17719.8	17930.1
15°	15571.6	15548.3	15646.4	15816.2	15998.5	16257.1	16408.2	16618.5	16747.8	16965.8
17.5°	13351.8	13431.2	13836.3	14261.5	14635.4	14937.6	15118.3	15292.8	15386.3	15623.0
20°	11530.7	11431.0	11485.6	11725.5	12789.4	13252.1	13442.1	13484.2	13523.1	13710.1
22.5°	9494.7	9462.0	9644.3	9913.8	10166.1	11233.2	11491.8	11393.6	11474.7	11650.7
25°	7050.5	7215.7	7377.7	7894.9	8222.0	8745.4	9236.1	9279.7	9309.3	9419.9
27.5°	5738.9	5681.2	5678.1	5823.0	6305.9	6742.1	7159.6	7256.2	7239.0	7345.0
30°	4511.3	4492.7	4427.2	4461.5	4413.2	4801.1	4997.4	5394.6	5372.8	5375.9
32.5°	3254.2	3184.1	3157.6	3209.0	3159.2	3123.4	3294.7	3743.4	3735.6	3766.7
35°	1969.0	1959.7	1981.5	2026.7	1927.0	1923.9	1959.7	2381.9	2433.3	2483.1
37.5°	1087.3	1078.0	1095.1	1261.8	1229.1	1199.5	1208.8	1431.6	1579.6	1617.0
40°	716.6	715.0	727.5	757.1	813.2	802.3	806.9	906.6	1046.8	1079.5
42.5°	479.8	481.4	489.1	523.4	531.2	587.3	577.9	601.3	732.2	760.2
45°	383.2	381.7	386.3	370.8	380.1	437.7	444.0	445.5	557.7	574.8
47.5°	302.2	302.2	306.9	286.6	282.0	317.8	350.5	355.2	445.5	468.9
50°	211.9	211.9	235.2	225.9	236.8	247.7	283.5	288.2	364.5	389.4
52.5°	155.8	158.9	162.0	163.6	199.4	197.8	229.0	250.8	275.7	319.3
55°	118.4	121.5	113.7	121.5	148.0	165.1	171.4	202.5	219.6	267.9
57.5°	77.9	85.7	79.4	93.5	99.7	127.7	137.1	166.7	177.6	219.6
60°	10.9	12.5	20.3	65.4	70.1	84.1	105.9	132.4	143.3	179.1
62.5°	1.6	1.6	4.7	10.9	46.7	56.1	79.4	91.9	105.9	134.0
65°	0.0	0.0	1.6	3.1	9.3	32.7	40.5	49.8	73.2	96.6
67.5°	0.0	0.0	1.6	3.1	4.7	10.9	17.1	32.7	42.1	67.0
70°	0.0	0.0	1.6	3.1	4.7	6.2	9.3	12.5	24.9	38.9
72.5°	0.0	0.0	1.6	3.1	4.7	6.2	7.8	9.3	10.9	24.9
75°	0.0	0.0	1.6	3.1	4.7	7.8	9.3	9.3	9.3	10.9
77.5°	0.0	0.0	1.6	3.1	6.2	9.3	10.9	9.3	7.8	7.8
80°	0.0	0.0	1.6	4.7	7.8	10.9	12.5	9.3	6.2	4.7
82.5°	0.0	0.0	1.6	4.7	7.8	10.9	12.5	10.9	6.2	4.7
85°	0.0	0.0	1.6	4.7	6.2	7.8	12.5	10.9	6.2	3.1
87.5°	0.0	0.0	0.0	1.6	1.6	3.1	6.2	4.7	3.1	1.6
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°
18819.6	0°	18819.6	18819.6	18819.6	18819.6	18819.6	18819.6	18819.6	18819.6	18819.6
18867.9	2.5°	19008.1	19078.2	19201.3	19235.5	19341.5	19220.0	19153.0	19159.2	19014.3
18821.2	5°	19008.1	19168.6	19383.5	19486.3	19564.2	19558.0	19540.9	19497.3	19391.3
18727.7	7.5°	18958.3	19220.0	19515.9	19653.0	19746.5	19738.7	19777.7	19707.6	19578.3
18561.0	10°	18797.8	19025.2	19389.8	19501.9	19653.0	19656.1	19607.9	19621.9	19391.3
17951.9	12.5°	18293.1	18470.7	18790.0	18917.8	19101.6	19131.2	19078.2	19058.0	18839.9
16953.4	15°	17316.4	17419.2	17740.1	17867.8	18050.1	18025.1	18078.1	18056.3	17864.7
15604.3	17.5°	15887.9	15920.6	16257.1	16364.5	16535.9	16602.9	16523.4	16624.7	16459.6
13742.8	20°	13839.4	14015.4	14393.9	14559.1	14658.8	14778.7	14674.3	14788.1	14594.9
11484.0	22.5°	11761.3	11865.7	12208.4	12446.7	12632.1	12655.5	12616.5	12696.0	12435.8
9493.1	25°	9491.6	9664.5	9935.6	10247.1	10429.4	10541.5	10440.3	10491.7	10449.6
7362.1	27.5°	7486.7	7640.9	7845.0	8077.1	8351.3	8497.7	8416.7	8504.0	8298.3
5489.6	30°	5494.3	5572.2	5802.8	6048.9	6349.5	6527.1	6534.9	6623.7	6502.2
3846.2	32.5°	3874.2	3942.8	4084.5	4248.1	4534.7	4732.6	4701.4	4713.9	4639.1
2506.5	35°	2518.9	2610.8	2712.1	2790.0	2962.9	3181.0	3163.9	3148.3	3096.9
1648.1	37.5°	1684.0	1719.8	1775.9	1846.0	1958.1	2095.2	2140.4	2084.3	2062.5
1112.3	40°	1138.7	1201.1	1238.4	1291.4	1344.4	1459.6	1490.8	1479.9	1458.1
778.9	42.5°	808.5	856.8	903.5	954.9	983.0	1054.6	1115.4	1098.2	1088.9
592.0	45°	613.8	657.4	711.9	750.9	778.9	821.0	878.6	884.8	870.8
475.1	47.5°	492.3	531.2	574.8	623.1	655.8	682.3	732.2	750.9	741.5
400.4	50°	417.5	447.1	489.1	537.4	573.3	596.6	640.3	660.5	654.3
334.9	52.5°	355.2	391.0	429.9	470.5	514.1	537.4	577.9	607.5	602.9
277.3	55°	294.4	341.2	381.7	422.2	472.0	495.4	531.2	570.1	562.4
235.2	57.5°	257.0	296.0	338.0	377.0	429.9	461.1	493.8	534.3	532.8
193.2	60°	215.0	253.9	300.7	333.4	389.4	433.1	462.7	504.7	507.8
146.4	62.5°	171.4	219.6	255.5	300.7	352.1	403.5	431.5	473.6	489.1
112.2	65°	127.7	180.7	221.2	266.4	314.7	372.3	397.2	439.3	454.9
81.0	67.5°	95.0	135.5	186.9	225.9	280.4	330.3	359.8	398.8	409.7
48.3	70°	71.7	104.4	155.8	190.0	246.1	286.6	316.2	345.8	359.8
32.7	72.5°	42.1	77.9	123.1	163.6	211.9	246.1	267.9	291.3	300.7
15.6	75°	29.6	59.2	96.6	135.5	171.4	199.4	219.6	239.9	249.2
7.8	77.5°	15.6	43.6	76.3	109.0	134.0	157.3	177.6	193.2	199.4
6.2	80°	9.3	31.2	62.3	85.7	102.8	123.1	143.3	154.2	152.7
4.7	82.5°	6.2	24.9	45.2	62.3	74.8	90.4	104.4	112.2	112.2
3.1	85°	4.7	17.1	31.2	48.3	49.8	62.3	65.4	73.2	74.8
3.1	87.5°	3.1	10.9	17.1	28.0	26.5	32.7	34.3	38.9	42.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
18819.6
18897.5
19425.6
19607.9
19324.3
18790.0
17925.4
16419.1
14579.3
12400.0
10423.1
8351.3
6524.0
4681.1
3051.7
2057.8
1461.2
1081.1
869.2
736.8
652.7
599.7
562.4
531.2
507.8
487.6
453.3
409.7
356.7
297.5
246.1
197.8
151.1
110.6
73.2
40.5
0.0

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