

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: P637748

Luminaire Tested: **IFLD-L-SA8A-827-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637748
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-827-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23654.3 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 247.8
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



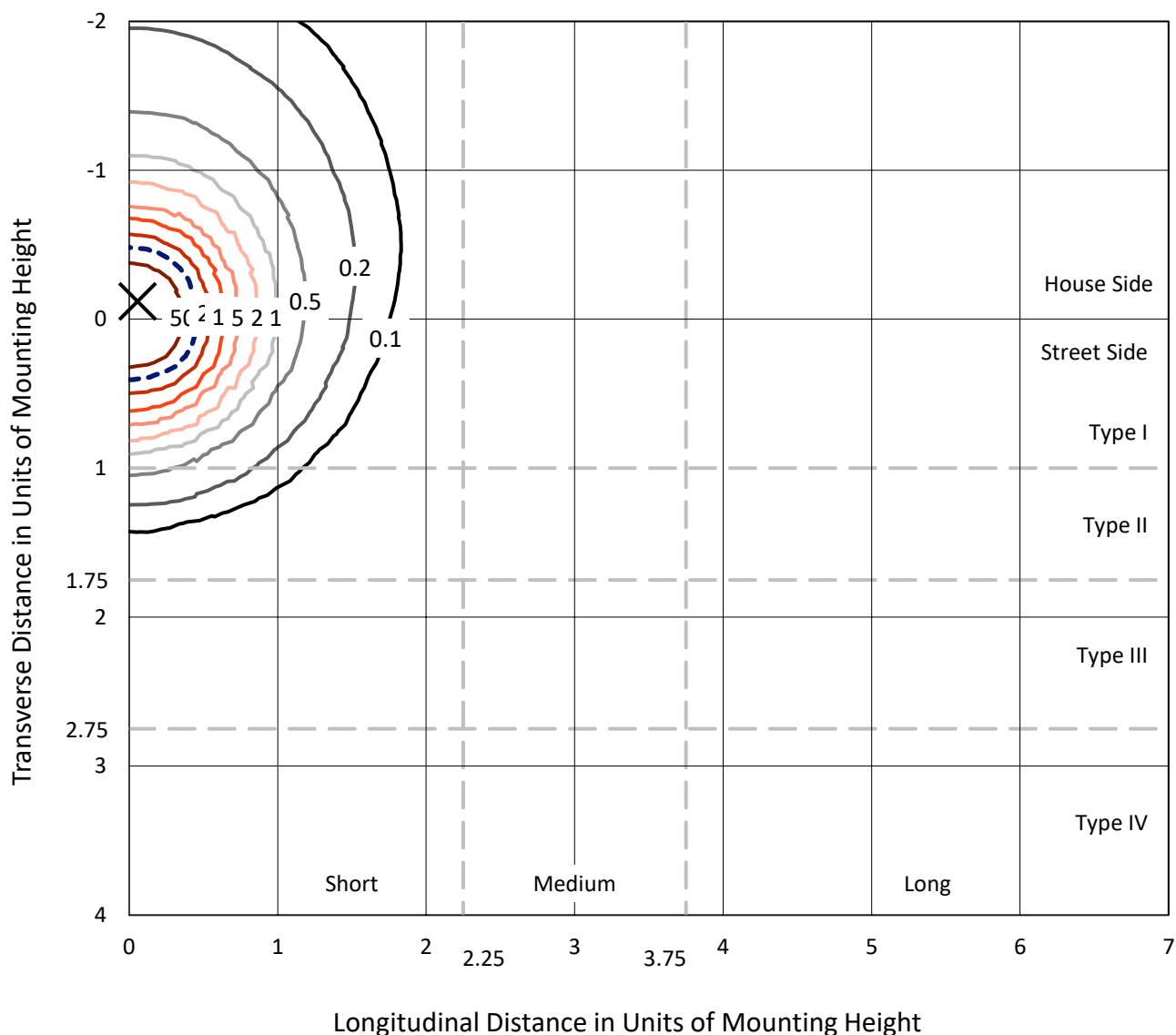
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



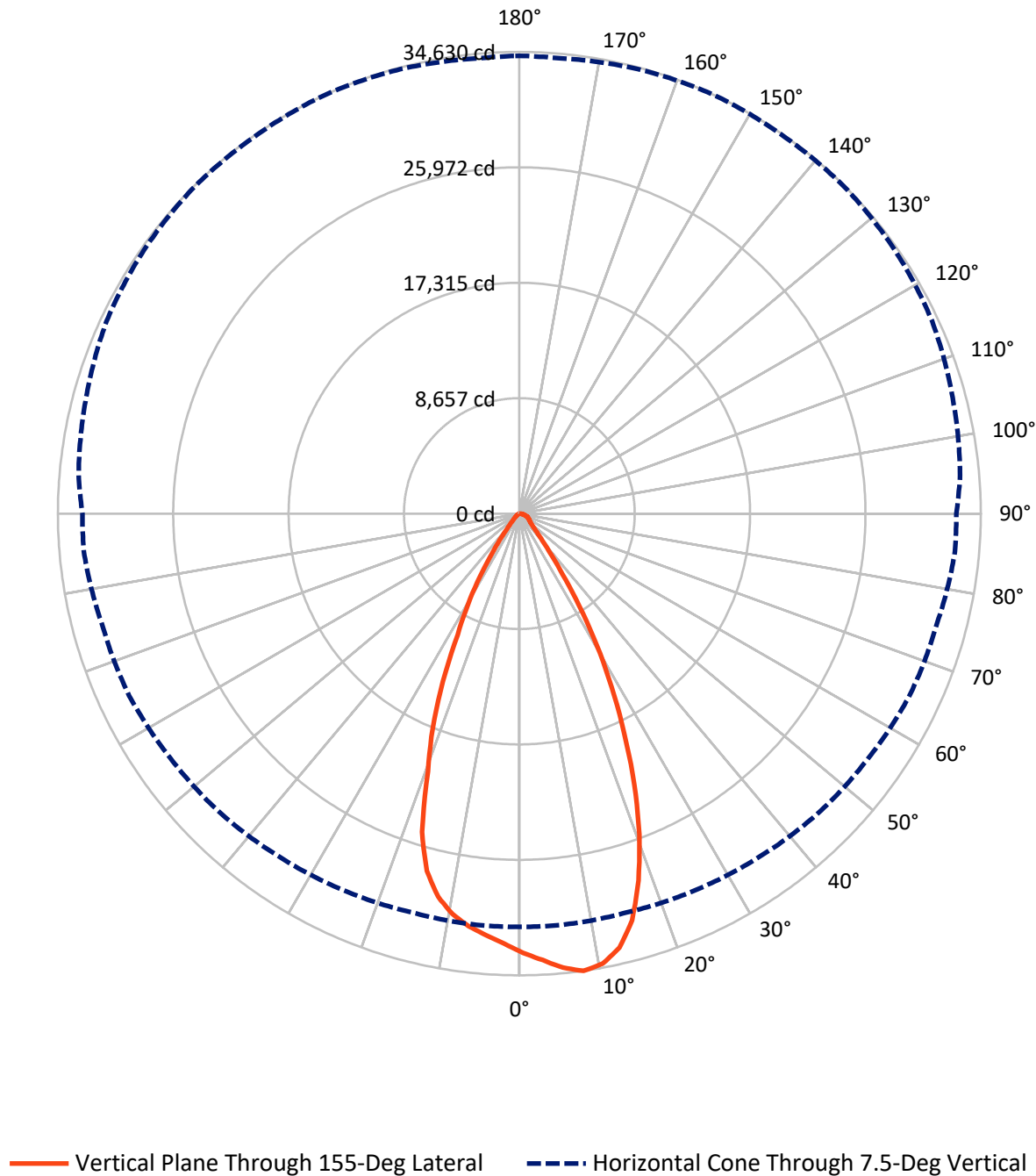
Based on 20 foot mounting height. Maximum calculated value = 83.7 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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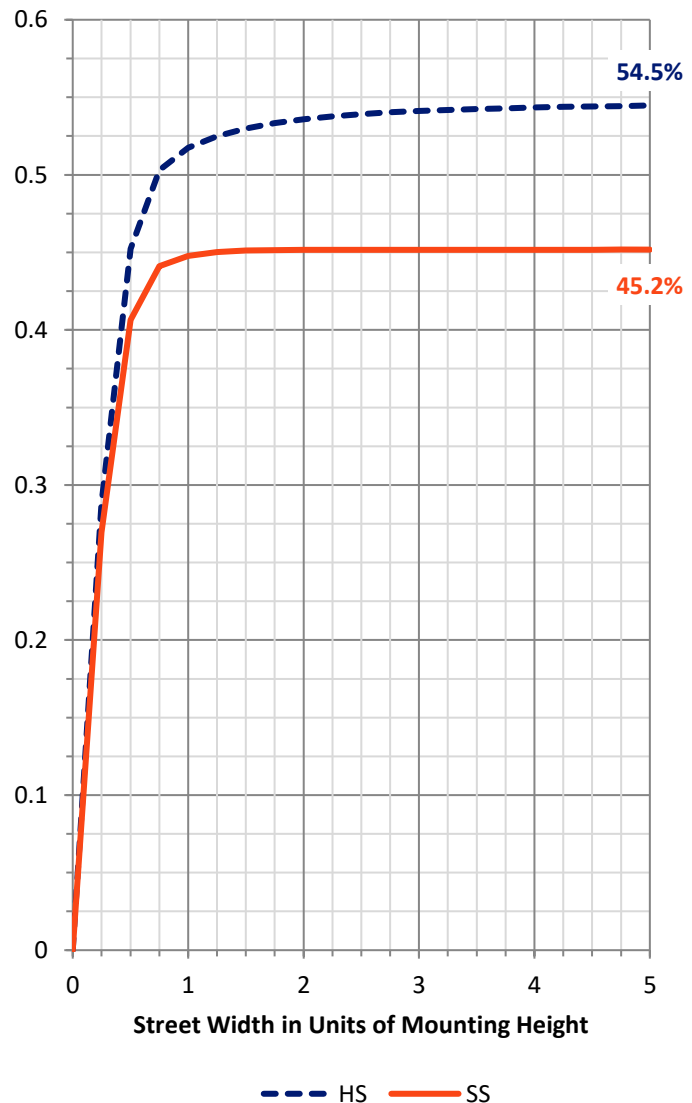
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13058.0	0.0	13058.0
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	10596.3	0.0	10596.3
	% Fixture	44.8	0.0	44.8
Total	Lumens	23654.3	0.0	23654.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3142.2	13.3
10°-20°	8147.8	34.4
20°-30°	7465.6	31.6
30°-40°	3016.1	12.8
40°-50°	884.8	3.7
50°-60°	494.7	2.1
60°-70°	300.5	1.3
70°-80°	152.7	0.6
80°-90°	49.9	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°	23654.3	100.0
0°-180°	23654.3	100.0

Coefficient of Utilization



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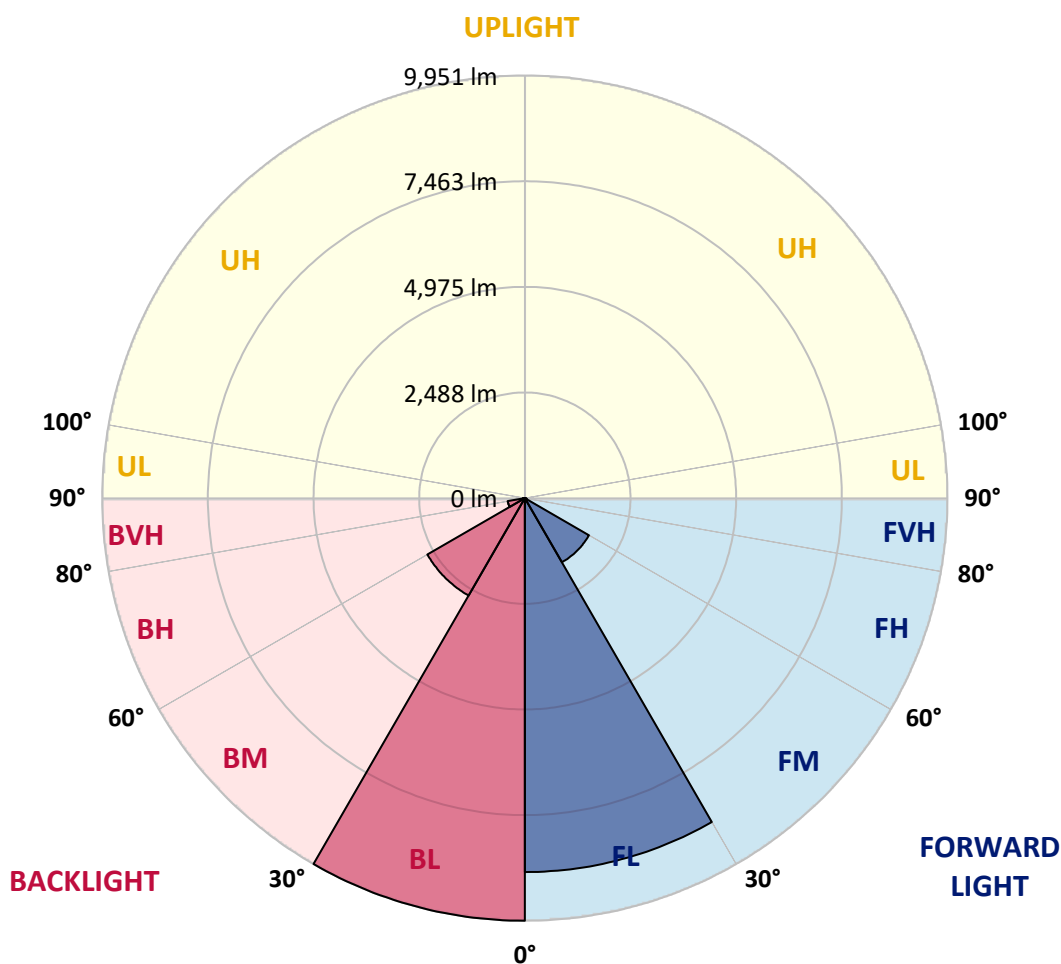
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8804.7	37.2			
FM	(30°-60°)	1744.9	7.4			
FH	(60°-80°)	42.3	0.2			G0/660
FVH	(80°-90°)	4.3	0.0			G0/10
BL	(0°-30°)	9950.9	42.1	B5		
BM	(30°-60°)	2650.7	11.2	B3/5000		
BH	(60°-80°)	410.9	1.7	B1/500		G1/500
BVH	(80°-90°)	45.6	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-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	32952.2	32952.2	32952.2	32952.2	32952.2	32952.2	32952.2	32952.2	32952.2	32952.2
2.5°	32237.6	32346.7	32128.5	32273.1	32384.9	32652.2	32674.0	32766.8	32799.5	33042.2
5°	31626.6	31711.2	31533.9	31727.5	31885.7	32123.0	32305.8	32562.2	32704.0	32990.4
7.5°	30991.1	31010.2	30974.7	31179.3	31416.6	31743.9	31970.3	32305.8	32393.1	32802.2
10°	30221.9	30082.8	30151.0	30451.0	30805.6	31307.5	31463.0	31798.5	31953.9	32371.3
12.5°	28994.5	29065.4	28980.8	29362.7	29657.3	30227.4	30391.0	30729.2	31026.5	31394.8
15°	27265.2	27224.3	27396.1	27693.4	28012.5	28465.3	28729.9	29098.1	29324.5	29706.4
17.5°	23378.3	23517.4	24226.6	24971.3	25625.9	26155.0	26471.4	26776.9	26940.6	27355.2
20°	20189.8	20015.2	20110.7	20530.7	22393.7	23203.8	23536.5	23610.2	23678.4	24005.7
22.5°	16624.8	16567.5	16886.6	17358.5	17800.4	19668.8	20121.6	19949.7	20091.6	20399.8
25°	12345.2	12634.3	12918.0	13823.5	14396.3	15312.8	16172.0	16248.4	16300.2	16493.8
27.5°	10048.5	9947.6	9942.1	10195.8	11041.4	11805.1	12536.1	12705.2	12675.2	12860.7
30°	7899.2	7866.4	7751.9	7811.9	7727.3	8406.5	8750.2	9445.7	9407.5	9413.0
32.5°	5698.0	5575.2	5528.9	5618.9	5531.6	5468.9	5768.9	6554.4	6540.8	6595.4
35°	3447.7	3431.3	3469.5	3548.6	3374.1	3368.6	3431.3	4170.5	4260.5	4347.8
37.5°	1903.9	1887.5	1917.5	2209.4	2152.1	2100.3	2116.6	2506.7	2765.8	2831.3
40°	1254.7	1252.0	1273.8	1325.6	1423.8	1404.7	1412.9	1587.5	1833.0	1890.2
42.5°	840.1	842.8	856.5	916.5	930.1	1028.3	1011.9	1052.9	1282.0	1331.1
45°	671.0	668.3	676.4	649.2	665.5	766.5	777.4	780.1	976.5	1006.5
47.5°	529.2	529.2	537.3	501.9	493.7	556.4	613.7	621.9	780.1	821.0
50°	371.0	371.0	411.9	395.5	414.6	433.7	496.4	504.6	638.3	681.9
52.5°	272.8	278.2	283.7	286.4	349.1	346.4	401.0	439.1	482.8	559.2
55°	207.3	212.8	199.1	212.8	259.1	289.1	300.0	354.6	384.6	469.1
57.5°	136.4	150.0	139.1	163.7	174.6	223.7	240.0	291.9	310.9	384.6
60°	19.1	21.8	35.5	114.6	122.7	147.3	185.5	231.8	250.9	313.7
62.5°	2.7	2.7	8.2	19.1	81.8	98.2	139.1	160.9	185.5	234.6
65°	0.0	0.0	2.7	5.5	16.4	57.3	70.9	87.3	128.2	169.1
67.5°	0.0	0.0	2.7	5.5	8.2	19.1	30.0	57.3	73.6	117.3
70°	0.0	0.0	2.7	5.5	8.2	10.9	16.4	21.8	43.6	68.2
72.5°	0.0	0.0	2.7	5.5	8.2	10.9	13.6	16.4	19.1	43.6
75°	0.0	0.0	2.7	5.5	8.2	13.6	16.4	16.4	16.4	19.1
77.5°	0.0	0.0	2.7	5.5	10.9	16.4	19.1	16.4	13.6	13.6
80°	0.0	0.0	2.7	8.2	13.6	19.1	21.8	16.4	10.9	8.2
82.5°	0.0	0.0	2.7	8.2	13.6	19.1	21.8	19.1	10.9	8.2
85°	0.0	0.0	2.7	8.2	10.9	13.6	21.8	19.1	10.9	5.5
87.5°	0.0	0.0	0.0	2.7	2.7	5.5	10.9	8.2	5.5	2.7
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°
32952.2	0°	32952.2	32952.2	32952.2	32952.2	32952.2	32952.2	32952.2	32952.2	32952.2
33036.8	2.5°	33282.3	33405.0	33620.5	33680.5	33866.0	33653.2	33535.9	33546.9	33293.2
32955.0	5°	33282.3	33563.2	33939.6	34119.7	34256.0	34245.1	34215.1	34138.7	33953.3
32791.3	7.5°	33195.0	33653.2	34171.5	34411.5	34575.2	34561.5	34629.7	34507.0	34280.6
32499.5	10°	32914.0	33312.3	33950.5	34146.9	34411.5	34417.0	34332.4	34357.0	33953.3
31433.0	12.5°	32030.3	32341.3	32900.4	33124.1	33445.9	33497.8	33405.0	33369.6	32987.7
29684.6	15°	30320.1	30500.1	31062.0	31285.7	31604.8	31561.2	31653.9	31615.7	31280.2
27322.5	17.5°	27818.9	27876.2	28465.3	28653.5	28953.6	29070.8	28931.7	29109.0	28819.9
24063.0	20°	24232.1	24540.3	25203.1	25492.2	25666.8	25876.8	25694.1	25893.2	25555.0
20107.9	22.5°	20593.4	20776.2	21376.3	21793.6	22118.2	22159.1	22090.9	22230.0	21774.5
16622.0	25°	16619.3	16922.1	17396.7	17942.2	18261.3	18457.7	18280.4	18370.4	18296.8
12890.7	27.5°	13108.9	13378.9	13736.2	14142.6	14622.7	14879.1	14737.3	14890.0	14530.0
9612.1	30°	9620.3	9756.7	10160.3	10591.3	11117.7	11428.7	11442.3	11597.8	11385.0
6734.5	32.5°	6783.6	6903.6	7151.8	7438.2	7940.1	8286.5	8231.9	8253.7	8122.8
4388.7	35°	4410.5	4571.5	4748.8	4885.1	5187.9	5569.8	5539.8	5512.5	5422.5
2885.8	37.5°	2948.5	3011.3	3109.5	3232.2	3428.6	3668.6	3747.7	3649.5	3611.4
1947.5	40°	1993.9	2103.0	2168.4	2261.2	2353.9	2555.8	2610.3	2591.2	2553.0
1363.8	42.5°	1415.6	1500.2	1582.0	1672.0	1721.1	1846.6	1953.0	1923.0	1906.6
1036.5	45°	1074.7	1151.1	1246.5	1314.7	1363.8	1437.4	1538.4	1549.3	1524.7
831.9	47.5°	861.9	930.1	1006.5	1091.0	1148.3	1194.7	1282.0	1314.7	1298.3
701.0	50°	731.0	782.8	856.5	941.0	1003.8	1044.7	1121.0	1156.5	1145.6
586.4	52.5°	621.9	684.6	752.8	823.7	900.1	941.0	1011.9	1063.8	1055.6
485.5	55°	515.5	597.3	668.3	739.2	826.5	867.4	930.1	998.3	984.7
411.9	57.5°	450.1	518.2	591.9	660.1	752.8	807.4	864.7	935.6	932.8
338.2	60°	376.4	444.6	526.4	583.7	681.9	758.3	810.1	883.7	889.2
256.4	62.5°	300.0	384.6	447.3	526.4	616.4	706.5	755.5	829.2	856.5
196.4	65°	223.7	316.4	387.3	466.4	551.0	651.9	695.5	769.2	796.5
141.8	67.5°	166.4	237.3	327.3	395.5	491.0	578.3	630.1	698.3	717.4
84.6	70°	125.5	182.7	272.8	332.8	431.0	501.9	553.7	605.5	630.1
57.3	72.5°	73.6	136.4	215.5	286.4	371.0	431.0	469.1	510.1	526.4
27.3	75°	51.8	103.6	169.1	237.3	300.0	349.1	384.6	420.1	436.4
13.6	77.5°	27.3	76.4	133.7	190.9	234.6	275.5	310.9	338.2	349.1
10.9	80°	16.4	54.6	109.1	150.0	180.0	215.5	250.9	270.0	267.3
8.2	82.5°	10.9	43.6	79.1	109.1	130.9	158.2	182.7	196.4	196.4
5.5	85°	8.2	30.0	54.6	84.6	87.3	109.1	114.6	128.2	130.9
5.5	87.5°	5.5	19.1	30.0	49.1	46.4	57.3	60.0	68.2	73.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
32952.2
33088.6
34013.3
34332.4
33836.0
32900.4
31386.6
28749.0
25527.7
21711.8
18250.4
14622.7
11423.2
8196.5
5343.4
3603.2
2558.5
1893.0
1522.0
1290.2
1142.9
1050.1
984.7
930.1
889.2
853.7
793.7
717.4
624.6
521.0
431.0
346.4
264.6
193.7
128.2
70.9
0.0

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