

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: P637614

Luminaire Tested: **IFLD-S-SA3C-735-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637614
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-735-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19624.5 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 160.8
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



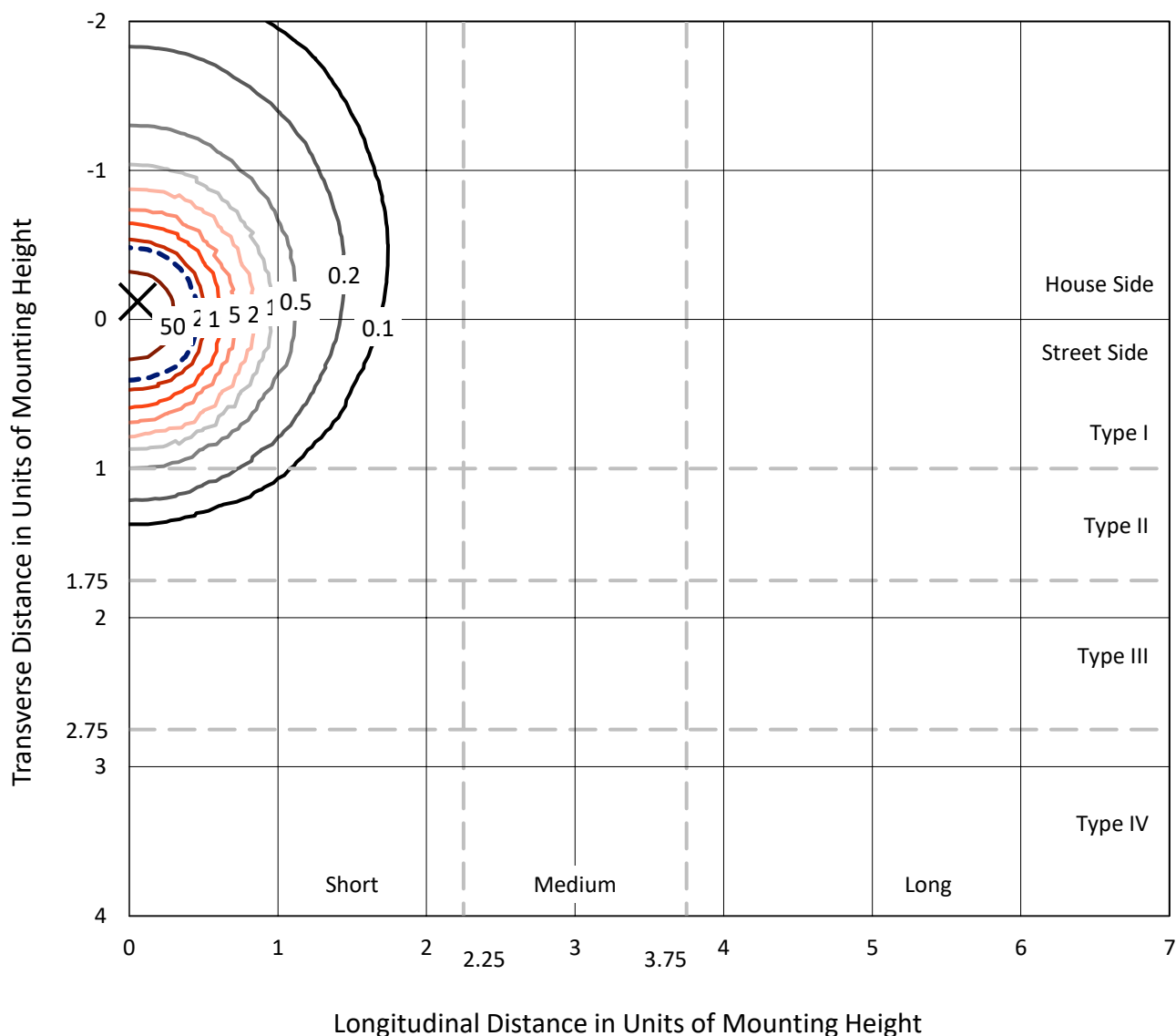
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



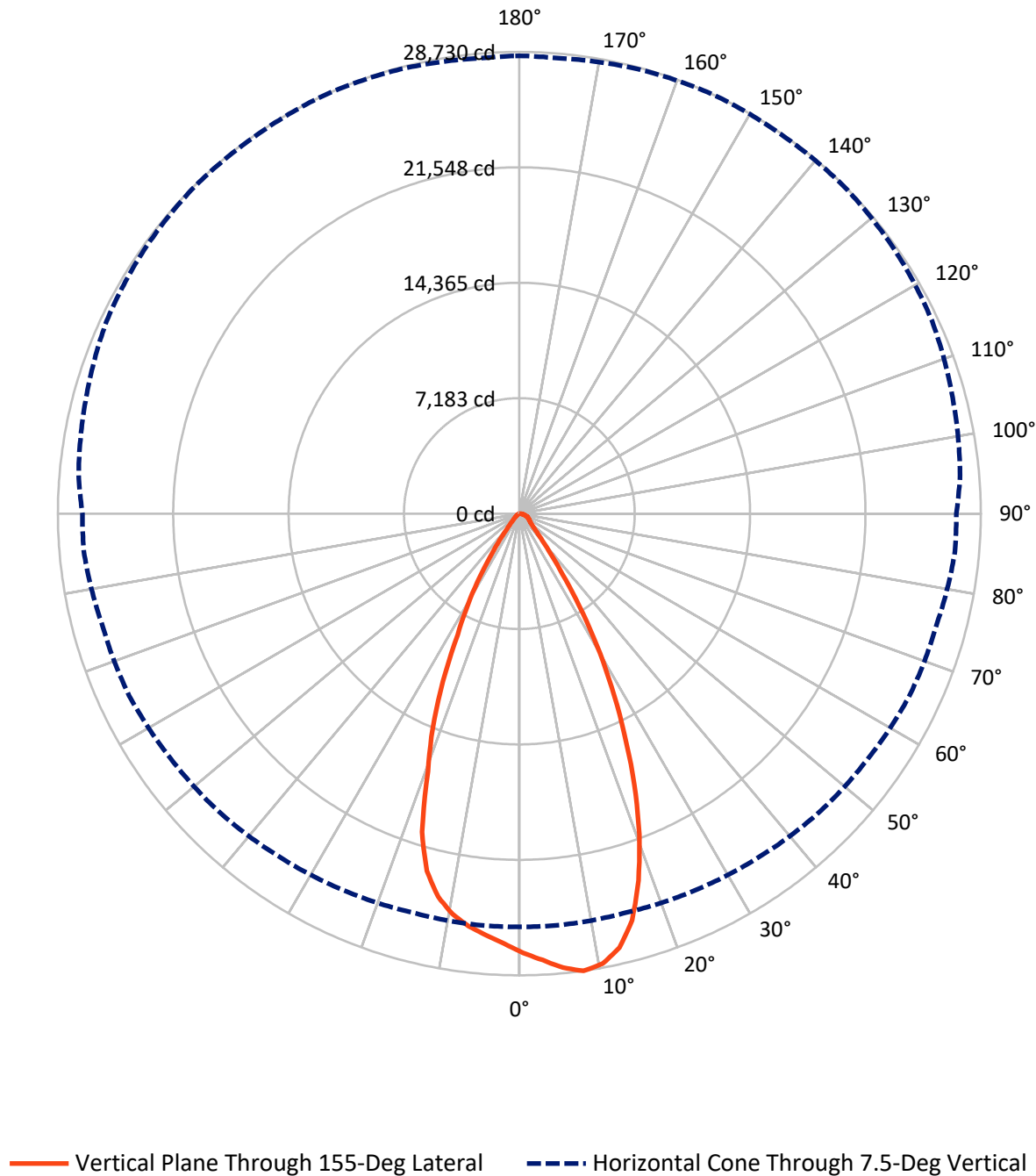
Based on 20 foot mounting height. Maximum calculated value = 69.5 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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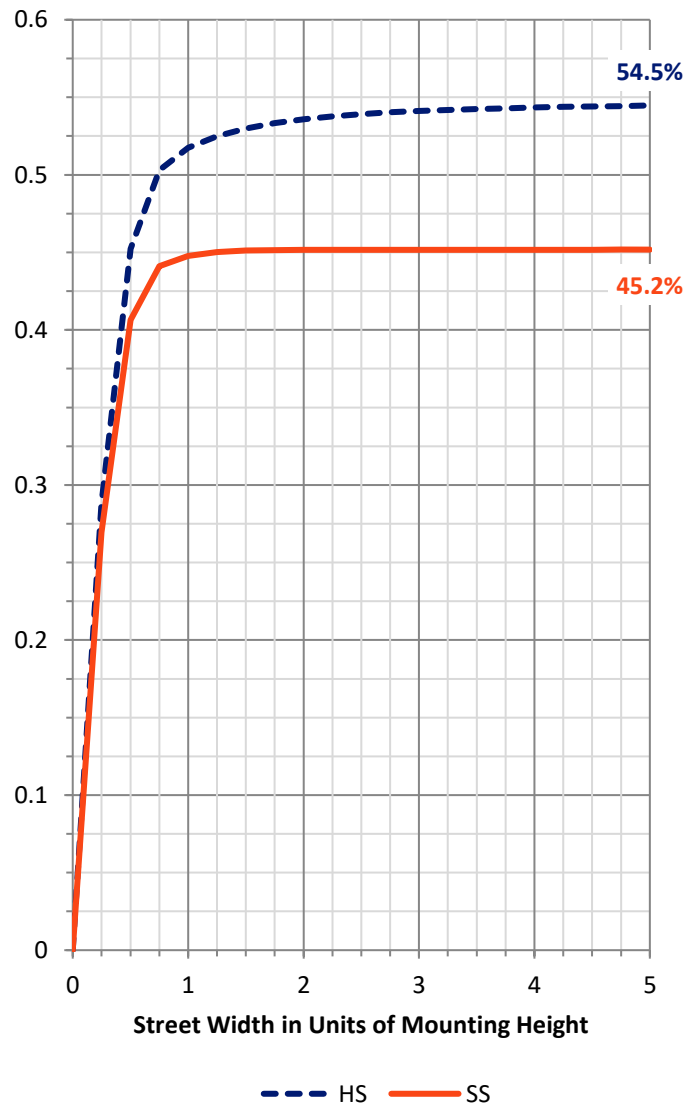
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10833.5	0.0	10833.5
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	8791.1	0.0	8791.1
	% Fixture	44.8	0.0	44.8
Total	Lumens	19624.5	0.0	19624.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2606.9	13.3
10°-20°	6759.7	34.4
20°-30°	6193.8	31.6
30°-40°	2502.3	12.8
40°-50°	734.1	3.7
50°-60°	410.4	2.1
60°-70°	249.3	1.3
70°-80°	126.7	0.6
80°-90°	41.4	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°	19624.5	100.0
0°-180°	19624.5	100.0

Coefficient of Utilization



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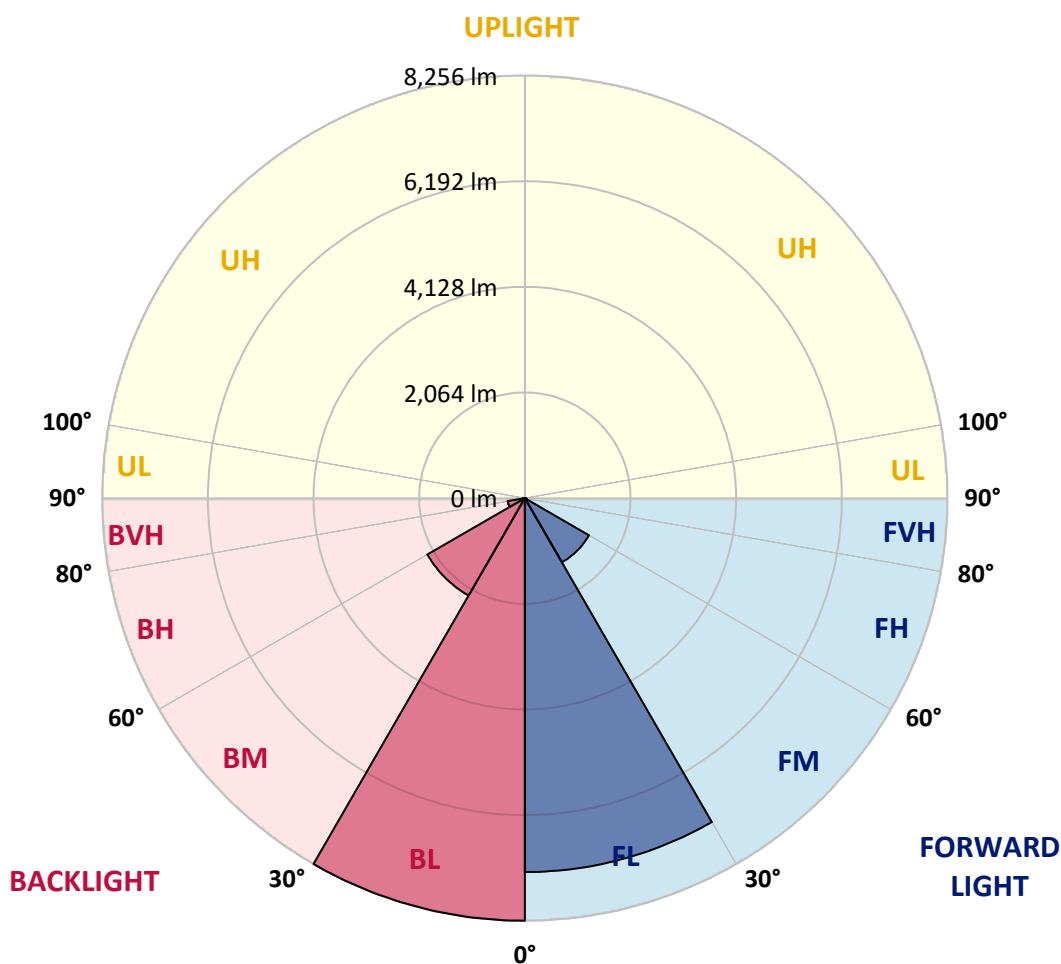
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7304.7	37.2			
FM	(30°-60°)	1447.7	7.4			
FH	(60°-80°)	35.1	0.2			G0/660
FVH	(80°-90°)	3.6	0.0			G0/10
BL	(0°-30°)	8255.6	42.1	B5		
BM	(30°-60°)	2199.1	11.2	B2/2500		
BH	(60°-80°)	340.9	1.7	B1/500		G1/500
BVH	(80°-90°)	37.8	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°	27338.5	27338.5	27338.5	27338.5	27338.5	27338.5	27338.5	27338.5	27338.5	27338.5
2.5°	26745.6	26836.1	26655.1	26775.0	26867.8	27089.6	27107.7	27184.6	27211.8	27413.2
5°	26238.7	26308.8	26161.8	26322.4	26453.7	26650.5	26802.2	27014.9	27132.6	27370.2
7.5°	25711.4	25727.3	25697.9	25867.6	26064.4	26336.0	26523.8	26802.2	26874.6	27214.0
10°	25073.3	24957.9	25014.4	25263.4	25557.6	25973.9	26102.9	26381.3	26510.2	26856.5
12.5°	24055.0	24113.8	24043.7	24360.5	24604.9	25077.8	25213.6	25494.2	25740.8	26046.3
15°	22620.3	22586.3	22728.9	22975.5	23240.3	23616.0	23835.5	24141.0	24328.8	24645.6
17.5°	19395.6	19511.0	20099.4	20717.1	21260.2	21699.3	21961.8	22215.2	22351.0	22694.9
20°	16750.2	16605.4	16684.6	17033.1	18578.7	19250.8	19526.8	19587.9	19644.5	19916.1
22.5°	13792.6	13745.0	14009.8	14401.3	14767.9	16318.0	16693.6	16551.1	16668.8	16924.5
25°	10242.0	10481.9	10717.2	11468.5	11943.8	12704.1	13416.9	13480.3	13523.3	13683.9
27.5°	8336.6	8252.9	8248.4	8458.8	9160.3	9794.0	10400.4	10540.7	10515.8	10669.7
30°	6553.5	6526.3	6431.3	6481.0	6410.9	6974.4	7259.5	7836.5	7804.9	7809.4
32.5°	4727.3	4625.4	4587.0	4661.6	4589.2	4537.2	4786.1	5437.8	5426.5	5471.8
35°	2860.3	2846.8	2878.4	2944.1	2799.2	2794.7	2846.8	3460.0	3534.7	3607.1
37.5°	1579.5	1565.9	1590.8	1833.0	1785.5	1742.5	1756.0	2079.6	2294.6	2348.9
40°	1040.9	1038.7	1056.8	1099.8	1181.3	1165.4	1172.2	1317.0	1520.7	1568.2
42.5°	697.0	699.2	710.6	760.3	771.7	853.1	839.5	873.5	1063.6	1104.3
45°	556.7	554.4	561.2	538.6	552.2	635.9	644.9	647.2	810.1	835.0
47.5°	439.0	439.0	445.8	416.4	409.6	461.6	509.2	515.9	647.2	681.1
50°	307.8	307.8	341.7	328.1	344.0	359.8	411.9	418.6	529.5	565.7
52.5°	226.3	230.8	235.3	237.6	289.7	287.4	332.7	364.3	400.5	463.9
55°	172.0	176.5	165.2	176.5	215.0	239.9	248.9	294.2	319.1	389.2
57.5°	113.1	124.5	115.4	135.8	144.8	185.6	199.1	242.1	258.0	319.1
60°	15.8	18.1	29.4	95.0	101.8	122.2	153.9	192.3	208.2	260.2
62.5°	2.3	2.3	6.8	15.8	67.9	81.5	115.4	133.5	153.9	194.6
65°	0.0	0.0	2.3	4.5	13.6	47.5	58.8	72.4	106.4	140.3
67.5°	0.0	0.0	2.3	4.5	6.8	15.8	24.9	47.5	61.1	97.3
70°	0.0	0.0	2.3	4.5	6.8	9.1	13.6	18.1	36.2	56.6
72.5°	0.0	0.0	2.3	4.5	6.8	9.1	11.3	13.6	15.8	36.2
75°	0.0	0.0	2.3	4.5	6.8	11.3	13.6	13.6	13.6	15.8
77.5°	0.0	0.0	2.3	4.5	9.1	13.6	15.8	13.6	11.3	11.3
80°	0.0	0.0	2.3	6.8	11.3	15.8	18.1	13.6	9.1	6.8
82.5°	0.0	0.0	2.3	6.8	11.3	15.8	18.1	15.8	9.1	6.8
85°	0.0	0.0	2.3	6.8	9.1	11.3	18.1	15.8	9.1	4.5
87.5°	0.0	0.0	0.0	2.3	2.3	4.5	9.1	6.8	4.5	2.3
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°
27338.5	0°	27338.5	27338.5	27338.5	27338.5	27338.5	27338.5	27338.5	27338.5	27338.5
27408.6	2.5°	27612.3	27714.1	27892.9	27942.7	28096.6	27920.1	27822.7	27831.8	27621.3
27340.7	5°	27612.3	27845.4	28157.7	28307.0	28420.2	28411.1	28386.2	28322.9	28169.0
27205.0	7.5°	27539.9	27920.1	28350.0	28549.1	28684.9	28673.6	28730.2	28628.4	28440.5
26962.8	10°	27306.8	27637.2	28166.7	28329.6	28549.1	28553.7	28483.5	28503.9	28169.0
26078.0	12.5°	26573.6	26831.6	27295.5	27481.0	27748.1	27791.1	27714.1	27684.7	27367.9
24627.5	15°	25154.8	25304.1	25770.3	25955.8	26220.6	26184.4	26261.3	26229.6	25951.3
22667.8	17.5°	23079.6	23127.2	23616.0	23772.1	24021.0	24118.3	24002.9	24150.0	23910.1
19963.6	20°	20103.9	20359.6	20909.5	21149.4	21294.2	21468.4	21316.8	21482.0	21201.4
16682.3	22.5°	17085.1	17236.8	17734.6	18080.8	18350.1	18384.1	18327.5	18442.9	18065.0
13790.3	25°	13788.0	14039.2	14433.0	14885.6	15150.3	15313.3	15166.2	15240.8	15179.7
10694.6	27.5°	10875.7	11099.7	11396.1	11733.3	12131.6	12344.3	12226.6	12353.3	12054.6
7974.6	30°	7981.4	8094.5	8429.4	8787.0	9223.7	9481.7	9493.0	9622.0	9445.5
5587.2	32.5°	5627.9	5727.5	5933.4	6171.0	6587.4	6874.8	6829.5	6847.6	6739.0
3641.1	35°	3659.2	3792.7	3939.8	4052.9	4304.1	4620.9	4596.0	4573.4	4498.7
2394.2	37.5°	2446.2	2498.3	2579.7	2681.6	2844.5	3043.6	3109.3	3027.8	2996.1
1615.7	40°	1654.2	1744.7	1799.0	1876.0	1952.9	2120.4	2165.6	2149.8	2118.1
1131.5	42.5°	1174.5	1244.6	1312.5	1387.2	1427.9	1532.0	1620.3	1595.4	1581.8
859.9	45°	891.6	955.0	1034.2	1090.7	1131.5	1192.6	1276.3	1285.3	1265.0
690.2	47.5°	715.1	771.7	835.0	905.2	952.7	991.2	1063.6	1090.7	1077.2
581.6	50°	606.5	649.5	710.6	780.7	832.8	866.7	930.1	959.5	950.4
486.5	52.5°	515.9	568.0	624.6	683.4	746.8	780.7	839.5	882.5	875.8
402.8	55°	427.7	495.6	554.4	613.3	685.7	719.6	771.7	828.2	816.9
341.7	57.5°	373.4	430.0	491.1	547.6	624.6	669.8	717.3	776.2	773.9
280.6	60°	312.3	368.9	436.7	484.3	565.7	629.1	672.1	733.2	737.7
212.7	62.5°	248.9	319.1	371.1	436.7	511.4	586.1	626.8	687.9	710.6
162.9	65°	185.6	262.5	321.3	387.0	457.1	540.8	577.0	638.1	660.8
117.7	67.5°	138.0	196.9	271.6	328.1	407.3	479.7	522.7	579.3	595.2
70.2	70°	104.1	151.6	226.3	276.1	357.5	416.4	459.4	502.4	522.7
47.5	72.5°	61.1	113.1	178.8	237.6	307.8	357.5	389.2	423.2	436.7
22.6	75°	43.0	86.0	140.3	196.9	248.9	289.7	319.1	348.5	362.1
11.3	77.5°	22.6	63.4	110.9	158.4	194.6	228.6	258.0	280.6	289.7
9.1	80°	13.6	45.3	90.5	124.5	149.4	178.8	208.2	224.0	221.8
6.8	82.5°	9.1	36.2	65.6	90.5	108.6	131.3	151.6	162.9	162.9
4.5	85°	6.8	24.9	45.3	70.2	72.4	90.5	95.0	106.4	108.6
4.5	87.5°	4.5	15.8	24.9	40.7	38.5	47.5	49.8	56.6	61.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
27338.5
27451.6
28218.8
28483.5
28071.7
27295.5
26039.6
23851.3
21178.8
18012.9
15141.3
12131.6
9477.2
6800.1
4433.1
2989.3
2122.6
1570.5
1262.7
1070.4
948.2
871.2
816.9
771.7
737.7
708.3
658.5
595.2
518.2
432.2
357.5
287.4
219.5
160.7
106.4
58.8
0.0

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