

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: P637557

Luminaire Tested: **IFLD-S-SA3D-727-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637557
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-727-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18309.3 lumens
Efficiency: N/A
Efficacy: 99.5 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): 184.1
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



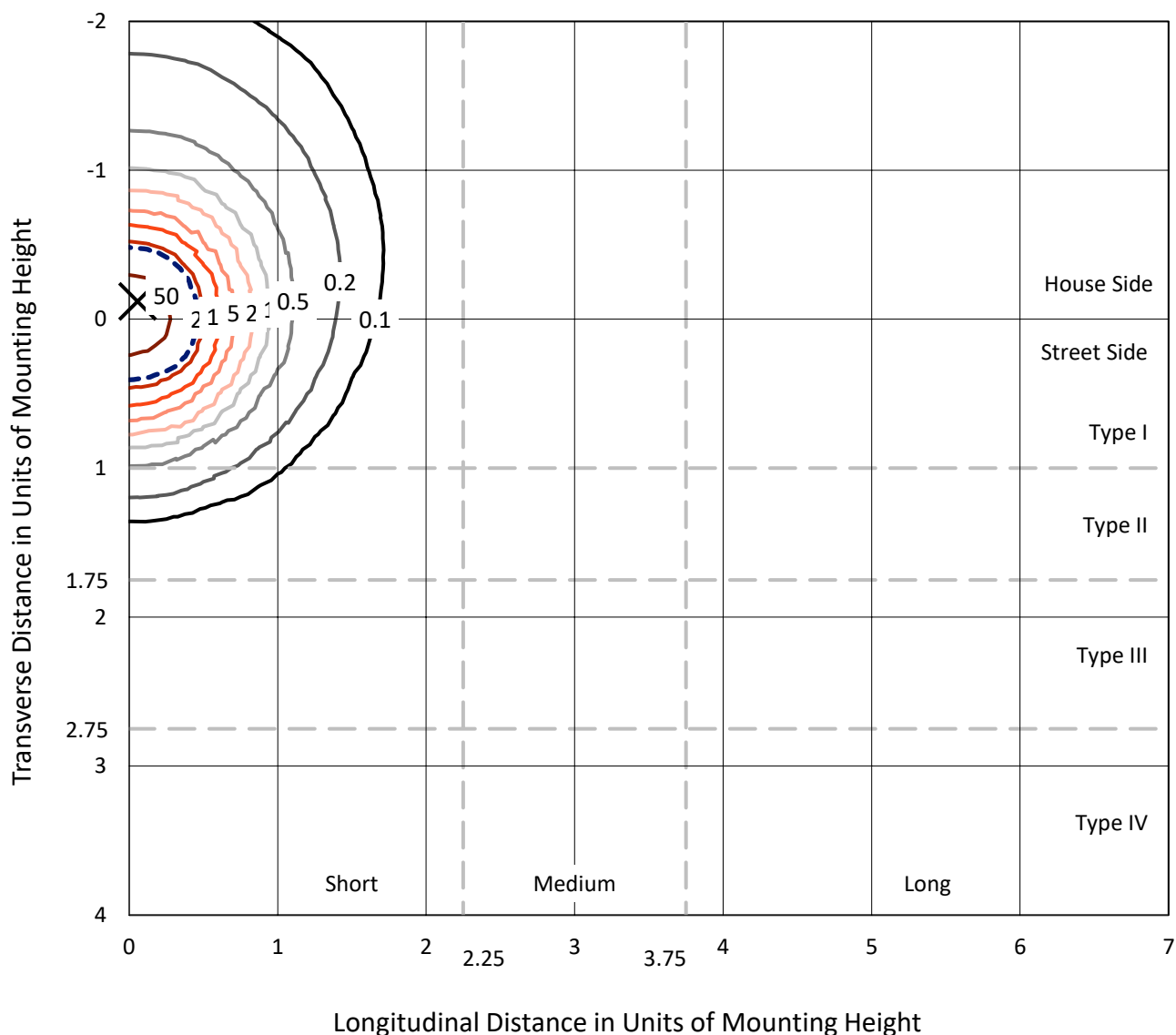
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



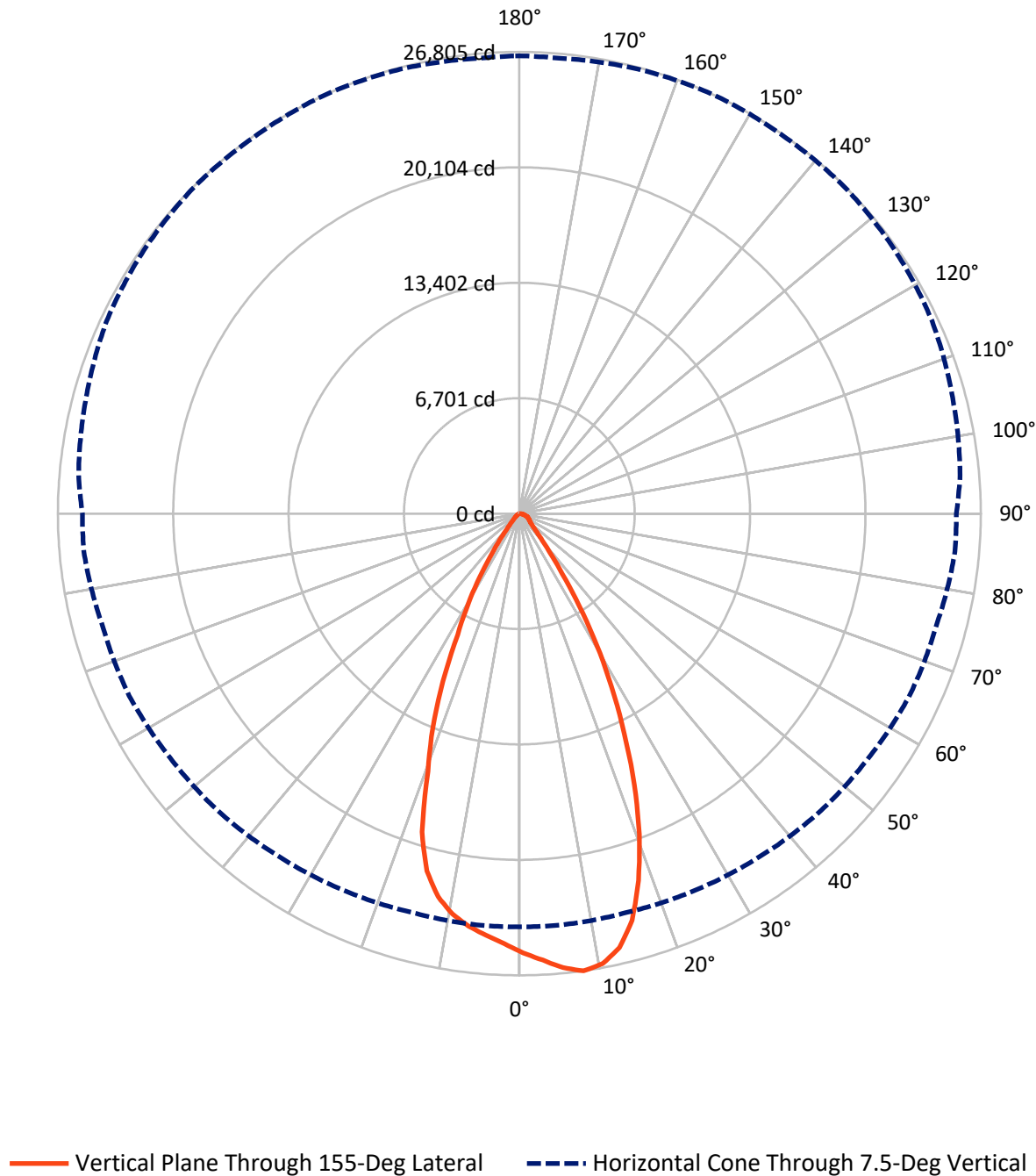
Based on 20 foot mounting height. Maximum calculated value = 64.8 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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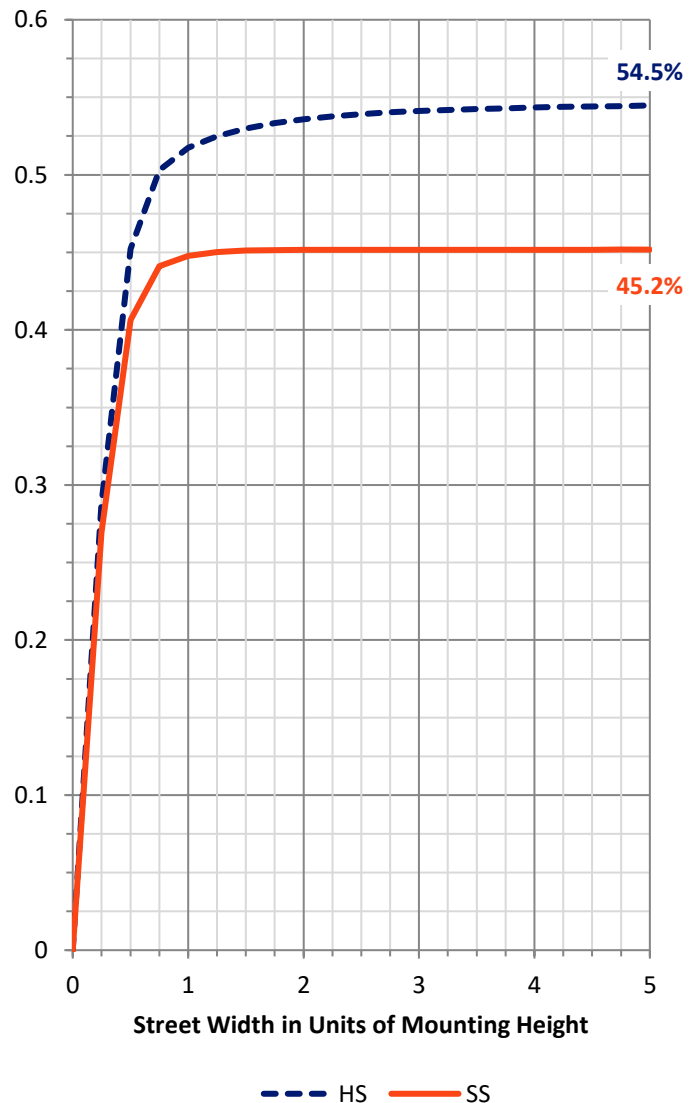
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10107.4	0.0	10107.4
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	8201.9	0.0	8201.9
	% Fixture	44.8	0.0	44.8
Total	Lumens	18309.3	0.0	18309.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2432.2	13.3
10°-20°	6306.7	34.4
20°-30°	5778.7	31.6
30°-40°	2334.6	12.8
40°-50°	684.9	3.7
50°-60°	382.9	2.1
60°-70°	232.6	1.3
70°-80°	118.2	0.6
80°-90°	38.6	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°	18309.3	100.0
0°-180°	18309.3	100.0

Coefficient of Utilization



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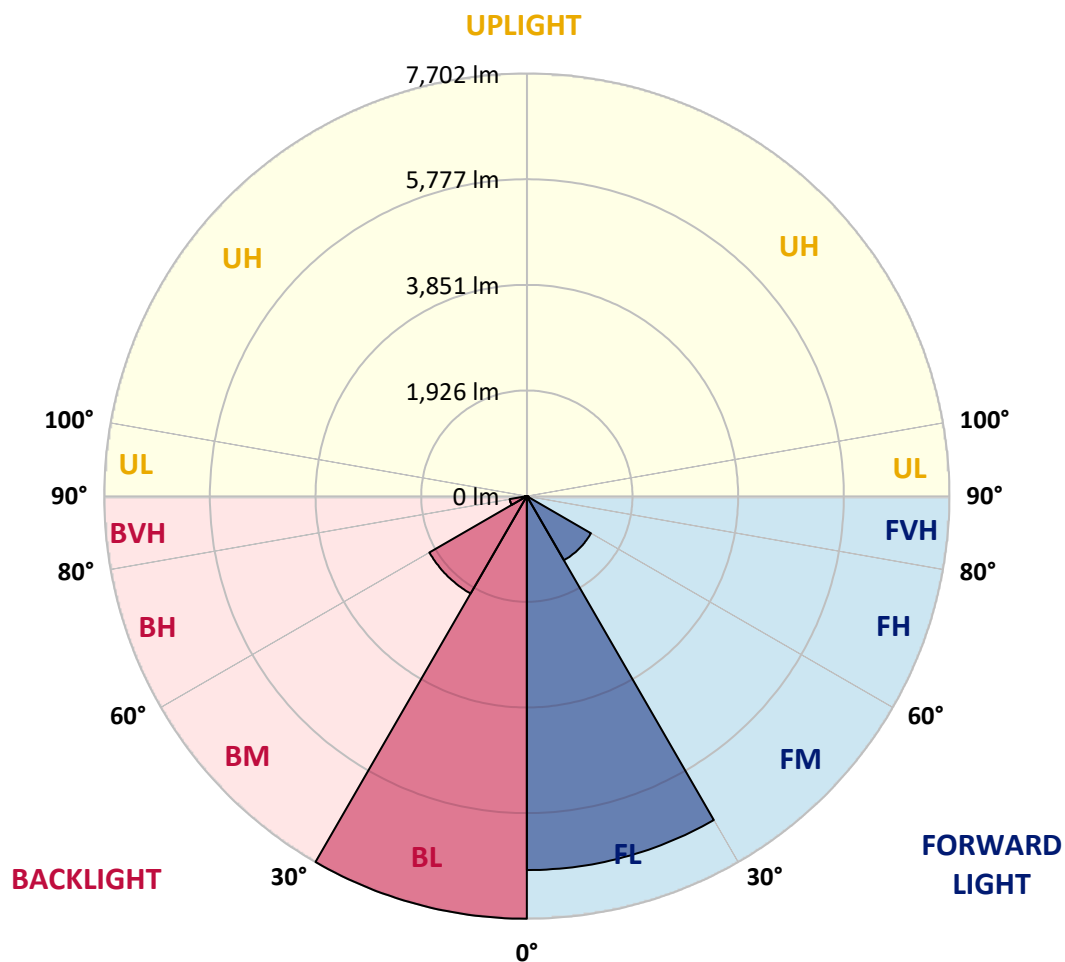
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6815.2	37.2			
FM	(30°-60°)	1350.6	7.4			
FH	(60°-80°)	32.7	0.2			G0/660
FVH	(80°-90°)	3.3	0.0			G0/10
BL	(0°-30°)	7702.4	42.1	B5		
BM	(30°-60°)	2051.7	11.2	B2/2500		
BH	(60°-80°)	318.0	1.7	B1/500		G1/500
BVH	(80°-90°)	35.3	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°	25506.3	25506.3	25506.3	25506.3	25506.3	25506.3	25506.3	25506.3	25506.3	25506.3
2.5°	24953.1	25037.6	24868.7	24980.6	25067.2	25274.1	25290.9	25362.7	25388.1	25576.0
5°	24480.2	24545.7	24408.4	24558.3	24680.8	24864.5	25005.9	25204.4	25314.2	25535.9
7.5°	23988.3	24003.1	23975.6	24134.0	24317.7	24571.0	24746.2	25005.9	25073.5	25390.2
10°	23392.9	23285.2	23338.0	23570.3	23844.7	24233.2	24353.5	24613.2	24733.6	25056.6
12.5°	22442.8	22497.7	22432.3	22727.9	22955.9	23397.1	23523.8	23785.6	24015.7	24300.8
15°	21104.3	21072.6	21205.6	21435.8	21682.8	22033.3	22238.0	22523.1	22698.3	22993.9
17.5°	18095.7	18203.4	18752.3	19328.7	19835.4	20245.0	20489.9	20726.4	20853.1	21174.0
20°	15627.6	15492.5	15566.4	15891.6	17333.6	17960.6	18218.2	18275.2	18328.0	18581.3
22.5°	12868.2	12823.9	13070.9	13436.1	13778.2	15224.4	15574.9	15441.9	15551.6	15790.2
25°	9555.6	9779.4	9999.0	10699.9	11143.3	11852.7	12517.7	12576.9	12617.0	12766.9
27.5°	7777.9	7699.8	7695.6	7891.9	8546.4	9137.6	9703.4	9834.3	9811.1	9954.7
30°	6114.2	6088.9	6000.2	6046.7	5981.2	6506.9	6773.0	7311.3	7281.8	7286.0
32.5°	4410.5	4315.4	4279.6	4349.2	4281.7	4233.1	4465.3	5073.4	5062.8	5105.1
35°	2668.7	2656.0	2685.5	2746.8	2611.6	2607.4	2656.0	3228.1	3297.8	3365.4
37.5°	1473.7	1461.0	1484.2	1710.1	1665.8	1625.7	1638.3	1940.3	2140.8	2191.5
40°	971.2	969.1	986.0	1026.1	1102.1	1087.3	1093.6	1228.8	1418.8	1463.1
42.5°	650.3	652.4	662.9	709.4	719.9	796.0	783.3	815.0	992.3	1030.3
45°	519.4	517.3	523.6	502.5	515.2	593.3	601.7	603.8	755.8	779.1
47.5°	409.6	409.6	415.9	388.5	382.1	430.7	475.0	481.4	603.8	635.5
50°	287.1	287.1	318.8	306.1	320.9	335.7	384.3	390.6	494.0	527.8
52.5°	211.1	215.3	219.6	221.7	270.2	268.1	310.4	339.9	373.7	432.8
55°	160.5	164.7	154.1	164.7	200.6	223.8	232.2	274.5	297.7	363.1
57.5°	105.6	116.1	107.7	126.7	135.1	173.1	185.8	225.9	240.7	297.7
60°	14.8	16.9	27.4	88.7	95.0	114.0	143.6	179.5	194.2	242.8
62.5°	2.1	2.1	6.3	14.8	63.3	76.0	107.7	124.6	143.6	181.6
65°	0.0	0.0	2.1	4.2	12.7	44.3	54.9	67.6	99.2	130.9
67.5°	0.0	0.0	2.1	4.2	6.3	14.8	23.2	44.3	57.0	90.8
70°	0.0	0.0	2.1	4.2	6.3	8.4	12.7	16.9	33.8	52.8
72.5°	0.0	0.0	2.1	4.2	6.3	8.4	10.6	12.7	14.8	33.8
75°	0.0	0.0	2.1	4.2	6.3	10.6	12.7	12.7	12.7	14.8
77.5°	0.0	0.0	2.1	4.2	8.4	12.7	14.8	12.7	10.6	10.6
80°	0.0	0.0	2.1	6.3	10.6	14.8	16.9	12.7	8.4	6.3
82.5°	0.0	0.0	2.1	6.3	10.6	14.8	16.9	14.8	8.4	6.3
85°	0.0	0.0	2.1	6.3	8.4	10.6	16.9	14.8	8.4	4.2
87.5°	0.0	0.0	0.0	2.1	2.1	4.2	8.4	6.3	4.2	2.1
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°
25506.3	0°	25506.3	25506.3	25506.3	25506.3	25506.3	25506.3	25506.3	25506.3	25506.3
25571.7	2.5°	25761.8	25856.8	26023.6	26070.0	26213.6	26048.9	25958.1	25966.6	25770.2
25508.4	5°	25761.8	25979.2	26270.6	26409.9	26515.5	26507.0	26483.8	26424.7	26281.1
25381.7	7.5°	25694.2	26048.9	26450.0	26635.8	26762.5	26752.0	26804.7	26709.7	26534.5
25155.8	10°	25476.7	25785.0	26279.0	26431.0	26635.8	26640.1	26574.6	26593.6	26281.1
24330.3	12.5°	24792.7	25033.4	25466.2	25639.3	25888.4	25928.6	25856.8	25829.3	25533.7
22977.0	15°	23468.9	23608.3	24043.2	24216.3	24463.3	24429.5	24501.3	24471.8	24212.1
21148.6	17.5°	21532.9	21577.2	22033.3	22178.9	22411.2	22502.0	22394.3	22531.5	22307.7
18625.7	20°	18756.6	18995.1	19508.2	19732.0	19867.1	20029.7	19888.2	20042.3	19780.5
15564.3	22.5°	15940.1	16081.6	16546.1	16869.1	17120.3	17152.0	17099.2	17206.9	16854.3
12866.1	25°	12864.0	13098.3	13465.7	13888.0	14135.0	14287.0	14149.8	14219.4	14162.4
9977.9	27.5°	10146.8	10355.8	10632.4	10947.0	11318.5	11517.0	11407.2	11525.4	11246.8
7440.1	30°	7446.5	7552.0	7864.5	8198.1	8605.6	8846.2	8856.8	8977.1	8812.5
5212.7	32.5°	5250.7	5343.6	5535.8	5757.4	6145.9	6414.0	6371.8	6388.7	6287.4
3397.0	35°	3413.9	3538.5	3675.7	3781.3	4015.6	4311.2	4288.0	4266.9	4197.2
2233.7	37.5°	2282.3	2330.8	2406.9	2501.9	2653.9	2839.7	2900.9	2824.9	2795.3
1507.4	40°	1543.3	1627.8	1678.5	1750.2	1822.0	1978.3	2020.5	2005.7	1976.2
1055.6	42.5°	1095.8	1161.2	1224.5	1294.2	1332.2	1429.3	1511.7	1488.4	1475.8
802.3	45°	831.8	891.0	964.9	1017.6	1055.6	1112.6	1190.8	1199.2	1180.2
643.9	47.5°	667.2	719.9	779.1	844.5	888.8	924.7	992.3	1017.6	1005.0
542.6	50°	565.8	605.9	662.9	728.4	776.9	808.6	867.7	895.2	886.7
453.9	52.5°	481.4	529.9	582.7	637.6	696.7	728.4	783.3	823.4	817.1
375.8	55°	399.0	462.4	517.3	572.2	639.7	671.4	719.9	772.7	762.2
318.8	57.5°	348.4	401.1	458.1	510.9	582.7	624.9	669.3	724.2	722.1
261.8	60°	291.4	344.1	407.5	451.8	527.8	586.9	627.0	684.1	688.3
198.5	62.5°	232.2	297.7	346.2	407.5	477.1	546.8	584.8	641.8	662.9
152.0	65°	173.1	244.9	299.8	361.0	426.5	504.6	538.4	595.4	616.5
109.8	67.5°	128.8	183.7	253.4	306.1	380.0	447.6	487.7	540.5	555.3
65.4	70°	97.1	141.5	211.1	257.6	333.6	388.5	428.6	468.7	487.7
44.3	72.5°	57.0	105.6	166.8	221.7	287.1	333.6	363.1	394.8	407.5
21.1	75°	40.1	80.2	130.9	183.7	232.2	270.2	297.7	325.1	337.8
10.6	77.5°	21.1	59.1	103.5	147.8	181.6	213.2	240.7	261.8	270.2
8.4	80°	12.7	42.2	84.5	116.1	139.3	166.8	194.2	209.0	206.9
6.3	82.5°	8.4	33.8	61.2	84.5	101.3	122.5	141.5	152.0	152.0
4.2	85°	6.3	23.2	42.2	65.4	67.6	84.5	88.7	99.2	101.3
4.2	87.5°	4.2	14.8	23.2	38.0	35.9	44.3	46.4	52.8	57.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
25506.3
25611.9
26327.6
26574.6
26190.4
25466.2
24294.4
22252.8
19759.4
16805.7
14126.5
11318.5
8842.0
6344.4
4136.0
2789.0
1980.4
1465.2
1178.1
998.6
884.6
812.8
762.2
719.9
688.3
660.8
614.4
555.3
483.5
403.3
333.6
268.1
204.8
149.9
99.2
54.9
0.0

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