

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: P637688

Luminaire Tested: **IFLD-L-SA7D-750-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637688
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-750-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46869.5 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 422.6
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



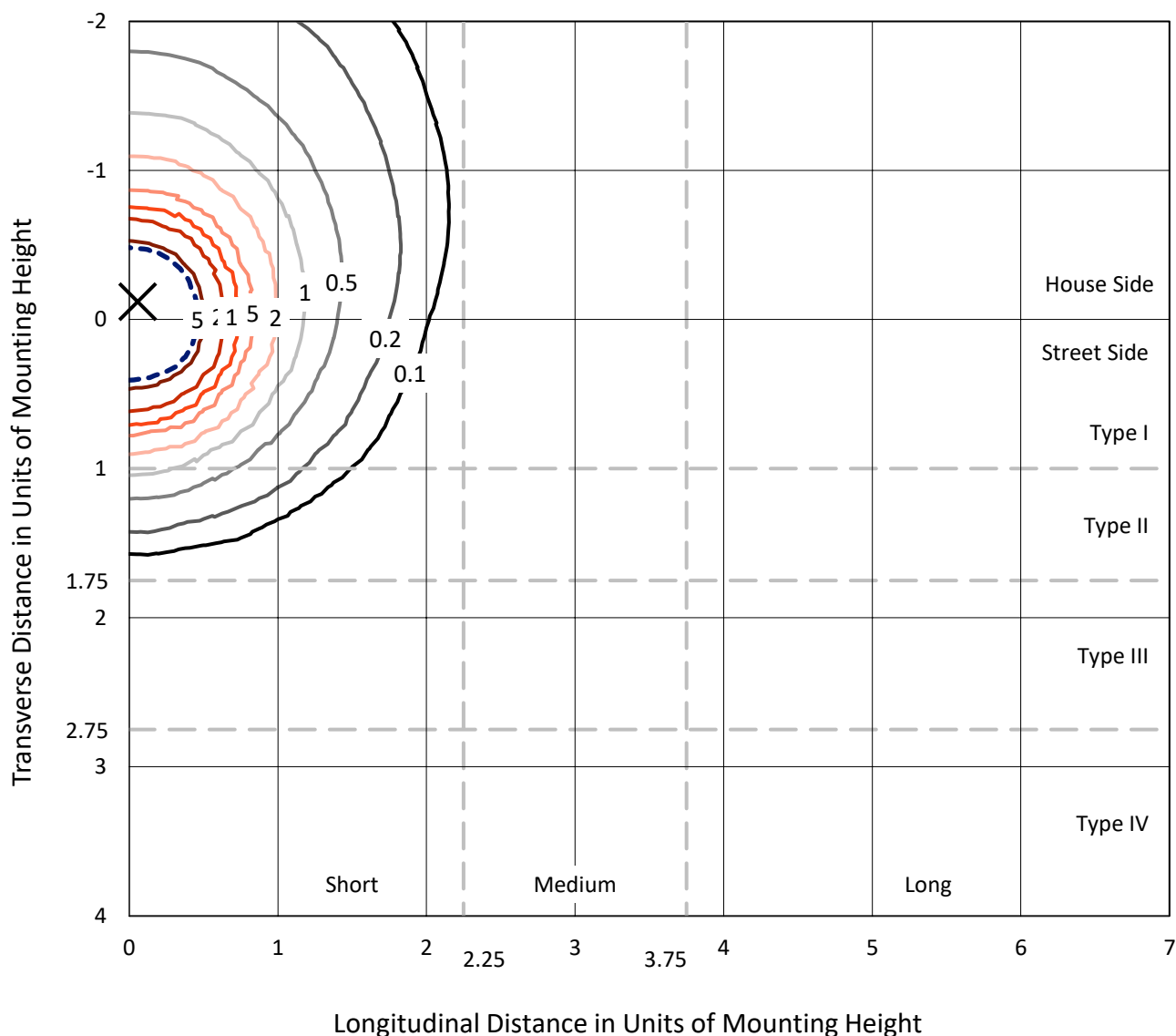
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



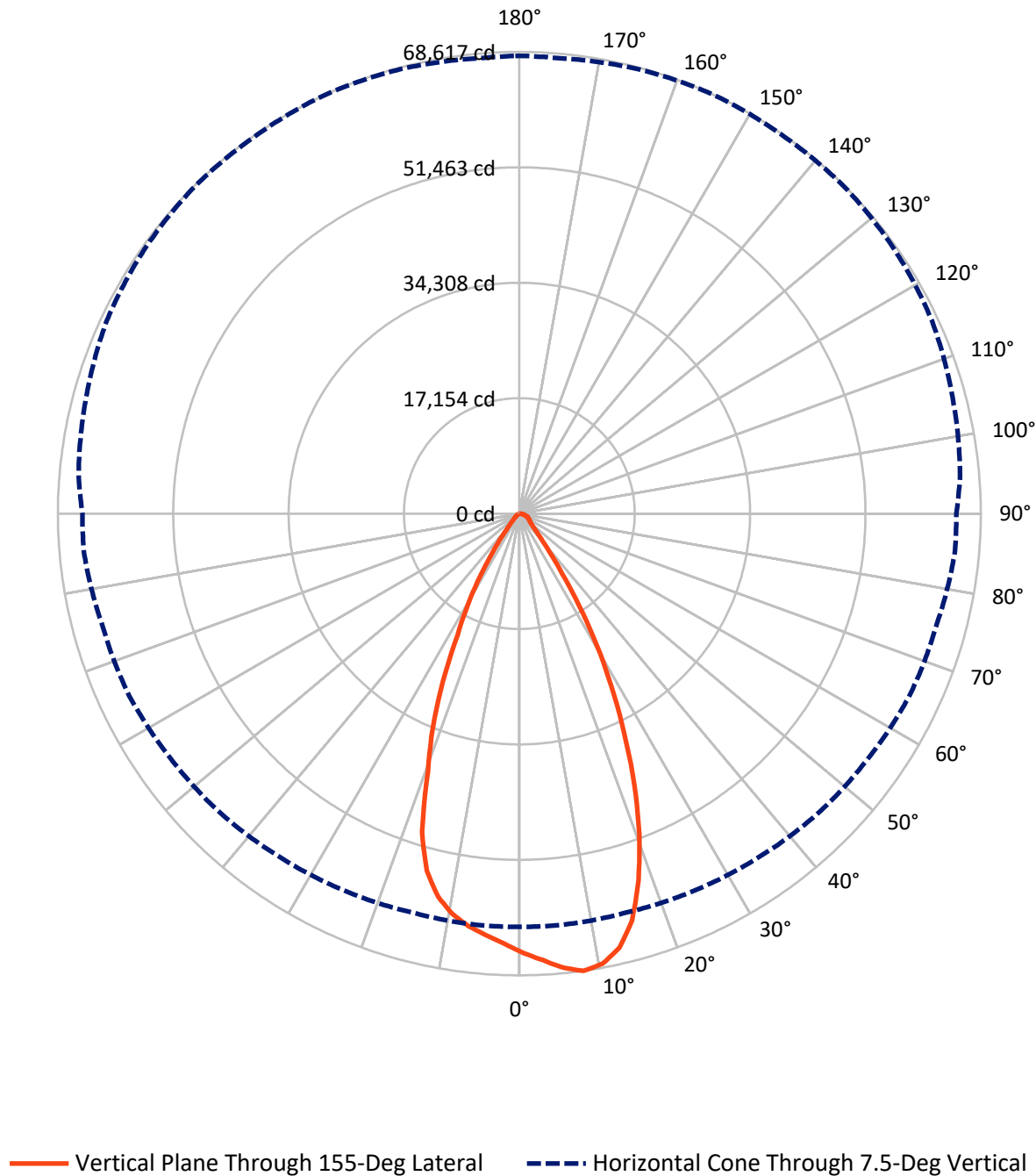
Based on 20 foot mounting height. Maximum calculated value = 165.9 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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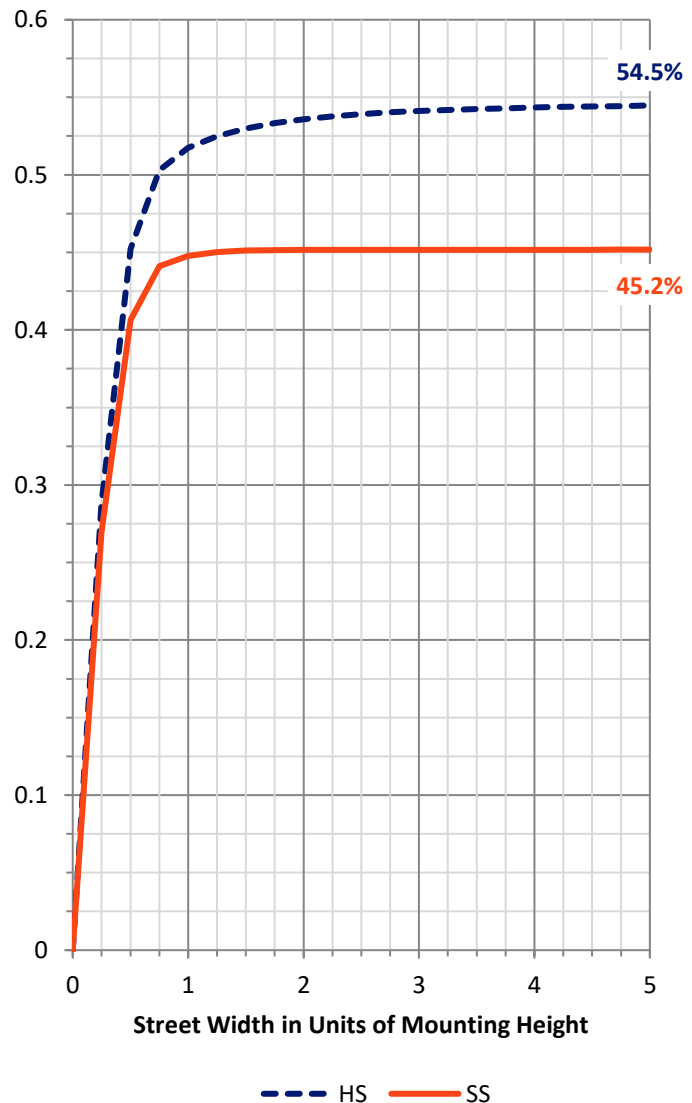
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25873.7	0.0	25873.7
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	20995.8	0.0	20995.8
	% Fixture	44.8	0.0	44.8
Total	Lumens	46869.5	0.0	46869.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6226.1	13.3
10°-20°	16144.3	34.4
20°-30°	14792.7	31.6
30°-40°	5976.2	12.8
40°-50°	1753.2	3.7
50°-60°	980.2	2.1
60°-70°	595.4	1.3
70°-80°	302.5	0.6
80°-90°	98.9	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°	46869.5	100.0
0°-180°	46869.5	100.0

Coefficient of Utilization



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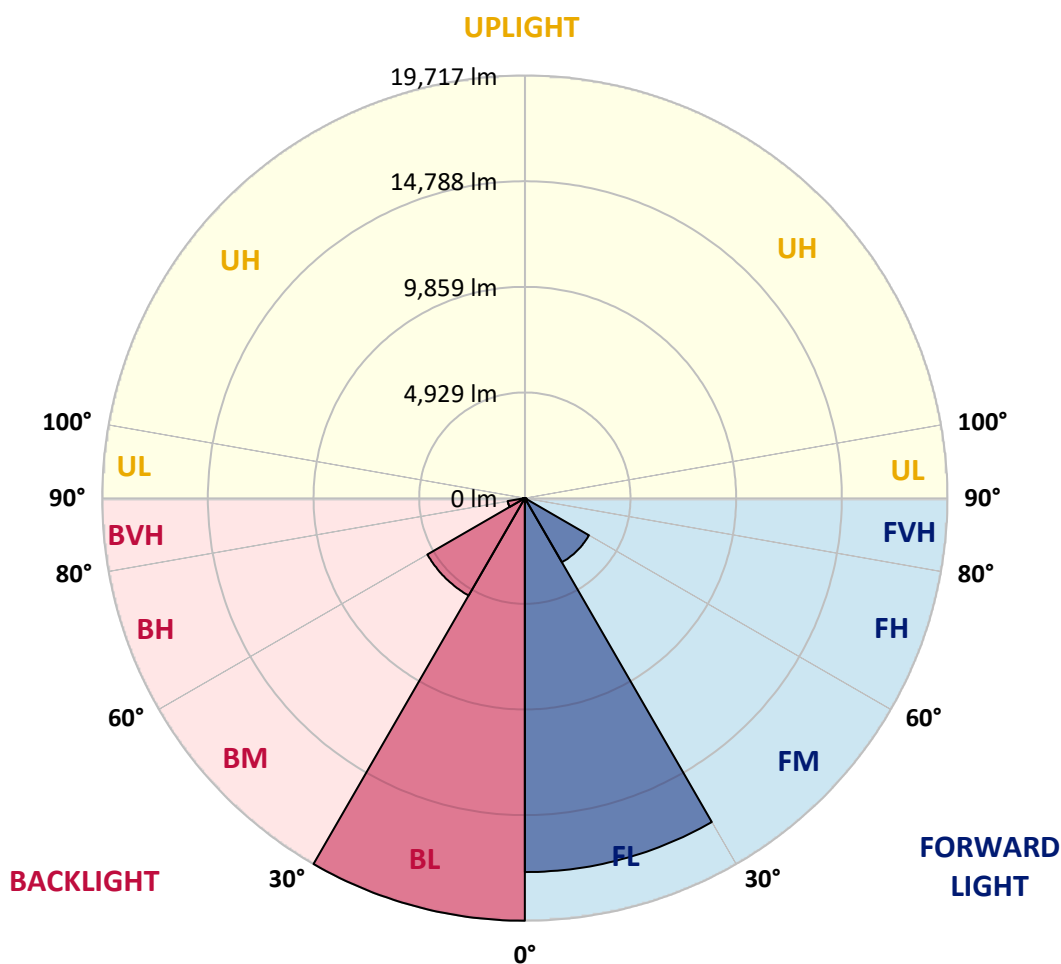
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	17446.0	37.2			
FM	(30°-60°)	3457.5	7.4			
FH	(60°-80°)	83.7	0.2			G0/660
FVH	(80°-90°)	8.6	0.0			G0/10
BL	(0°-30°)	19717.1	42.1	B5		
BM	(30°-60°)	5252.1	11.2	B4/8500		
BH	(60°-80°)	814.1	1.7	B2/1000		G2/1000
BVH	(80°-90°)	90.4	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°	65292.8	65292.8	65292.8	65292.8	65292.8	65292.8	65292.8	65292.8	65292.8	65292.8
2.5°	63876.8	64093.0	63660.6	63947.1	64168.7	64698.3	64741.6	64925.3	64990.2	65471.2
5°	62666.2	62833.7	62482.4	62866.2	63179.6	63649.8	64011.9	64520.0	64801.0	65368.5
7.5°	61406.9	61444.8	61374.5	61779.8	62250.0	62898.6	63347.2	64011.9	64184.9	64995.6
10°	59882.8	59607.2	59742.3	60336.8	61039.4	62033.9	62341.9	63006.7	63314.8	64141.7
12.5°	57450.8	57591.3	57423.8	58180.4	58764.1	59893.6	60217.9	60888.1	61477.2	62206.8
15°	54024.3	53943.2	54283.7	54872.8	55505.1	56402.3	56926.5	57656.1	58104.7	58861.4
17.5°	46322.7	46598.4	48003.6	49479.0	50776.1	51824.6	52451.5	53056.8	53381.1	54202.6
20°	40004.8	39658.9	39848.0	40680.3	44371.7	45976.8	46636.2	46782.1	46917.2	47565.8
22.5°	32941.0	32827.5	33459.8	34394.8	35270.3	38972.5	39869.6	39529.2	39810.2	40420.9
25°	24461.2	25034.1	25596.1	27390.5	28525.4	30341.4	32043.8	32195.1	32297.8	32681.5
27.5°	19910.5	19710.5	19699.7	20202.4	21877.8	23391.1	24839.5	25174.6	25115.1	25482.6
30°	15651.7	15586.8	15359.8	15478.7	15311.2	16656.9	17337.9	18716.1	18640.4	18651.2
32.5°	11290.2	11047.0	10955.1	11133.5	10960.5	10836.2	11430.7	12987.2	12960.2	13068.3
35°	6831.4	6799.0	6874.6	7031.4	6685.5	6674.7	6799.0	8263.6	8442.0	8614.9
37.5°	3772.4	3740.0	3799.4	4377.7	4264.2	4161.5	4194.0	4966.8	5480.3	5610.0
40°	2486.1	2480.7	2523.9	2626.6	2821.2	2783.4	2799.6	3145.5	3631.9	3745.4
42.5°	1664.6	1670.0	1697.0	1815.9	1843.0	2037.5	2005.1	2086.2	2540.2	2637.4
45°	1329.5	1324.1	1340.3	1286.3	1318.7	1518.7	1540.3	1545.7	1934.8	1994.3
47.5°	1048.5	1048.5	1064.7	994.4	978.2	1102.5	1216.0	1232.2	1545.7	1626.8
50°	735.0	735.0	816.1	783.7	821.5	859.3	983.6	999.8	1264.7	1351.1
52.5°	540.5	551.3	562.1	567.5	691.8	686.4	794.5	870.1	956.6	1107.9
55°	410.7	421.6	394.5	421.6	513.4	572.9	594.5	702.6	762.0	929.6
57.5°	270.2	297.3	275.6	324.3	345.9	443.2	475.6	578.3	616.1	762.0
60°	37.8	43.2	70.3	227.0	243.2	291.8	367.5	459.4	497.2	621.5
62.5°	5.4	5.4	16.2	37.8	162.1	194.6	275.6	318.9	367.5	464.8
65°	0.0	0.0	5.4	10.8	32.4	113.5	140.5	172.9	254.0	335.1
67.5°	0.0	0.0	5.4	10.8	16.2	37.8	59.5	113.5	145.9	232.4
70°	0.0	0.0	5.4	10.8	16.2	21.6	32.4	43.2	86.5	135.1
72.5°	0.0	0.0	5.4	10.8	16.2	21.6	27.0	32.4	37.8	86.5
75°	0.0	0.0	5.4	10.8	16.2	27.0	32.4	32.4	32.4	37.8
77.5°	0.0	0.0	5.4	10.8	21.6	32.4	37.8	32.4	27.0	27.0
80°	0.0	0.0	5.4	16.2	27.0	37.8	43.2	32.4	21.6	16.2
82.5°	0.0	0.0	5.4	16.2	27.0	37.8	43.2	37.8	21.6	16.2
85°	0.0	0.0	5.4	16.2	21.6	27.0	43.2	37.8	21.6	10.8
87.5°	0.0	0.0	0.0	5.4	5.4	10.8	21.6	16.2	10.8	5.4
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°
65292.8	0°	65292.8	65292.8	65292.8	65292.8	65292.8	65292.8	65292.8	65292.8	65292.8
65460.4	2.5°	65946.8	66190.0	66617.0	66735.9	67103.4	66681.8	66449.4	66471.0	65968.4
65298.2	5°	65946.8	66503.5	67249.3	67606.0	67876.2	67854.6	67795.2	67643.8	67276.3
64974.0	7.5°	65773.8	66681.8	67708.7	68184.3	68508.6	68481.5	68616.7	68373.4	67924.9
64395.7	10°	65217.2	66006.2	67270.9	67660.0	68184.3	68195.1	68027.6	68076.2	67276.3
62282.5	12.5°	63466.1	64082.2	65190.1	65633.3	66271.1	66373.7	66190.0	66119.7	65363.1
58818.1	15°	60077.4	60434.1	61547.5	61990.6	62623.0	62536.5	62720.2	62644.6	61979.8
54137.8	17.5°	55121.4	55234.9	56402.3	56775.2	57369.7	57602.1	57326.5	57677.8	57104.9
47679.3	20°	48014.4	48625.1	49938.4	50511.3	50857.2	51273.3	50911.2	51305.8	50635.6
39842.6	22.5°	40804.6	41166.7	42355.8	43182.7	43825.8	43906.9	43771.8	44047.4	43144.8
32935.6	25°	32930.2	33530.1	34470.5	35551.4	36183.7	36572.8	36221.6	36399.9	36254.0
25542.1	27.5°	25974.5	26509.5	27217.5	28022.8	28974.0	29482.0	29201.0	29503.6	28790.2
19045.8	30°	19062.0	19332.2	20132.1	20986.0	22029.1	22645.2	22672.2	22980.3	22558.8
13343.9	32.5°	13441.2	13679.0	14170.8	14738.3	15732.8	16419.1	16311.0	16354.3	16094.9
8696.0	35°	8739.2	9058.1	9409.4	9679.6	10279.5	11036.2	10976.7	10922.7	10744.3
5718.1	37.5°	5842.4	5966.7	6161.2	6404.4	6793.6	7269.2	7425.9	7231.3	7155.7
3858.9	40°	3950.8	4166.9	4296.6	4480.4	4664.2	5064.1	5172.2	5134.4	5058.7
2702.3	42.5°	2805.0	2972.5	3134.7	3313.0	3410.3	3658.9	3869.7	3810.2	3777.8
2053.7	45°	2129.4	2280.7	2469.9	2605.0	2702.3	2848.2	3048.2	3069.8	3021.2
1648.4	47.5°	1707.8	1843.0	1994.3	2161.8	2275.3	2367.2	2540.2	2605.0	2572.6
1389.0	50°	1448.4	1551.1	1697.0	1864.6	1988.9	2070.0	2221.3	2291.5	2269.9
1162.0	52.5°	1232.2	1356.6	1491.7	1632.2	1783.5	1864.6	2005.1	2107.8	2091.6
962.0	55°	1021.5	1183.6	1324.1	1464.6	1637.6	1718.7	1843.0	1978.1	1951.1
816.1	57.5°	891.8	1026.9	1172.8	1307.9	1491.7	1599.8	1713.3	1853.8	1848.4
670.2	60°	745.8	880.9	1043.1	1156.6	1351.1	1502.5	1605.2	1751.1	1761.9
508.0	62.5°	594.5	762.0	886.4	1043.1	1221.4	1399.8	1497.1	1643.0	1697.0
389.1	65°	443.2	626.9	767.5	924.2	1091.7	1291.7	1378.2	1524.1	1578.1
281.0	67.5°	329.7	470.2	648.6	783.7	972.8	1145.8	1248.5	1383.6	1421.4
167.5	70°	248.6	362.1	540.5	659.4	853.9	994.4	1097.1	1199.8	1248.5
113.5	72.5°	145.9	270.2	427.0	567.5	735.0	853.9	929.6	1010.7	1043.1
54.0	75°	102.7	205.4	335.1	470.2	594.5	691.8	762.0	832.3	864.7
27.0	77.5°	54.0	151.3	264.8	378.3	464.8	545.9	616.1	670.2	691.8
21.6	80°	32.4	108.1	216.2	297.3	356.7	427.0	497.2	535.1	529.6
16.2	82.5°	21.6	86.5	156.7	216.2	259.4	313.5	362.1	389.1	389.1
10.8	85°	16.2	59.5	108.1	167.5	172.9	216.2	227.0	254.0	259.4
10.8	87.5°	10.8	37.8	59.5	97.3	91.9	113.5	118.9	135.1	145.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
65292.8
65563.1
67395.2
68027.6
67043.9
65190.1
62190.6
56964.4
50581.5
43020.5
36162.1
28974.0
22634.4
16240.8
10587.6
7139.5
5069.5
3750.8
3015.8
2556.4
2264.5
2080.8
1951.1
1843.0
1761.9
1691.6
1572.7
1421.4
1237.7
1032.3
853.9
686.4
524.2
383.7
254.0
140.5
0.0

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