

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: P637776

Luminaire Tested: **IFLD-L-SA7E-830-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637776
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-830-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42135.4 lumens
Efficiency: N/A
Efficacy: 79.1 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): 532.7
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



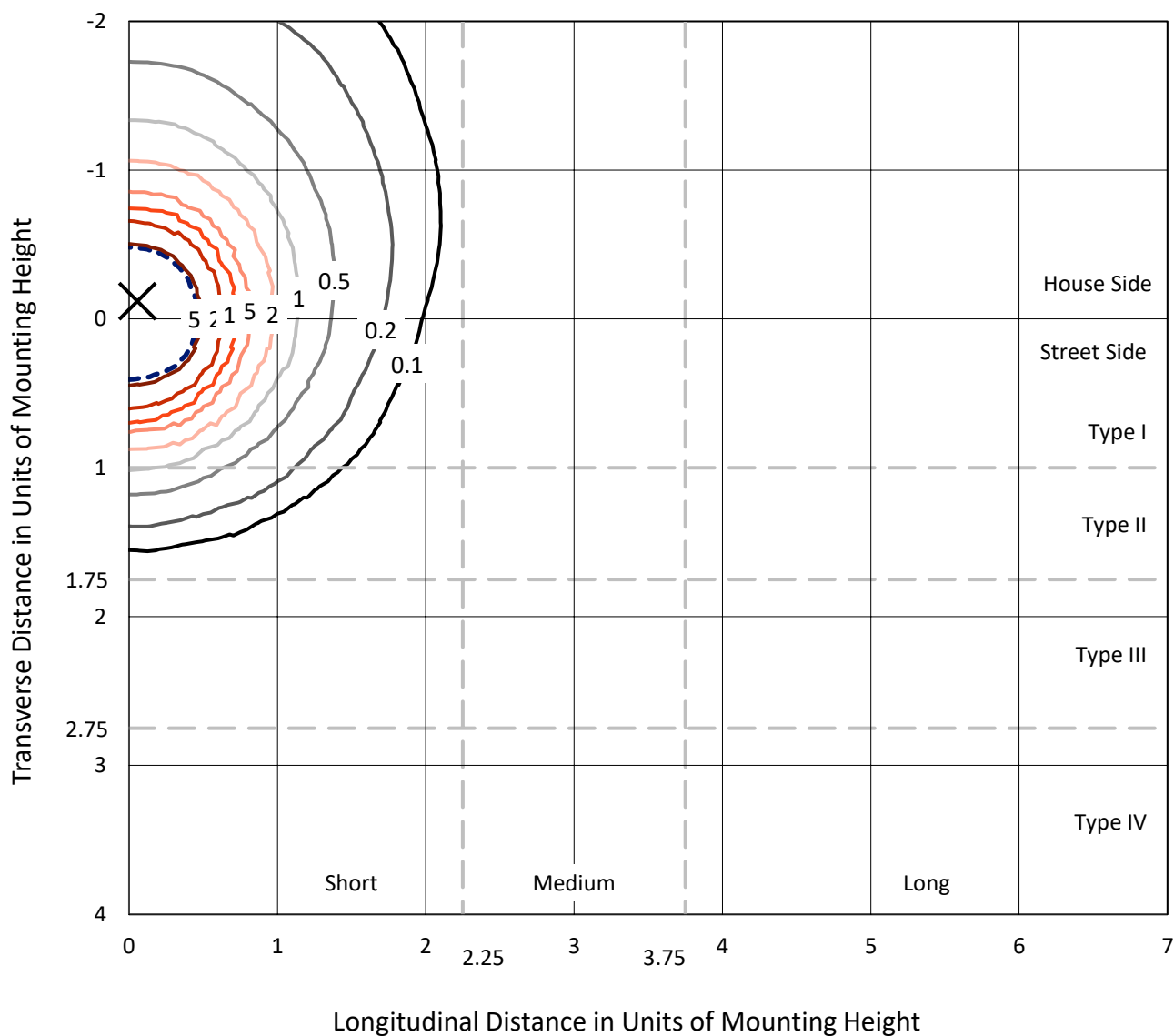
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



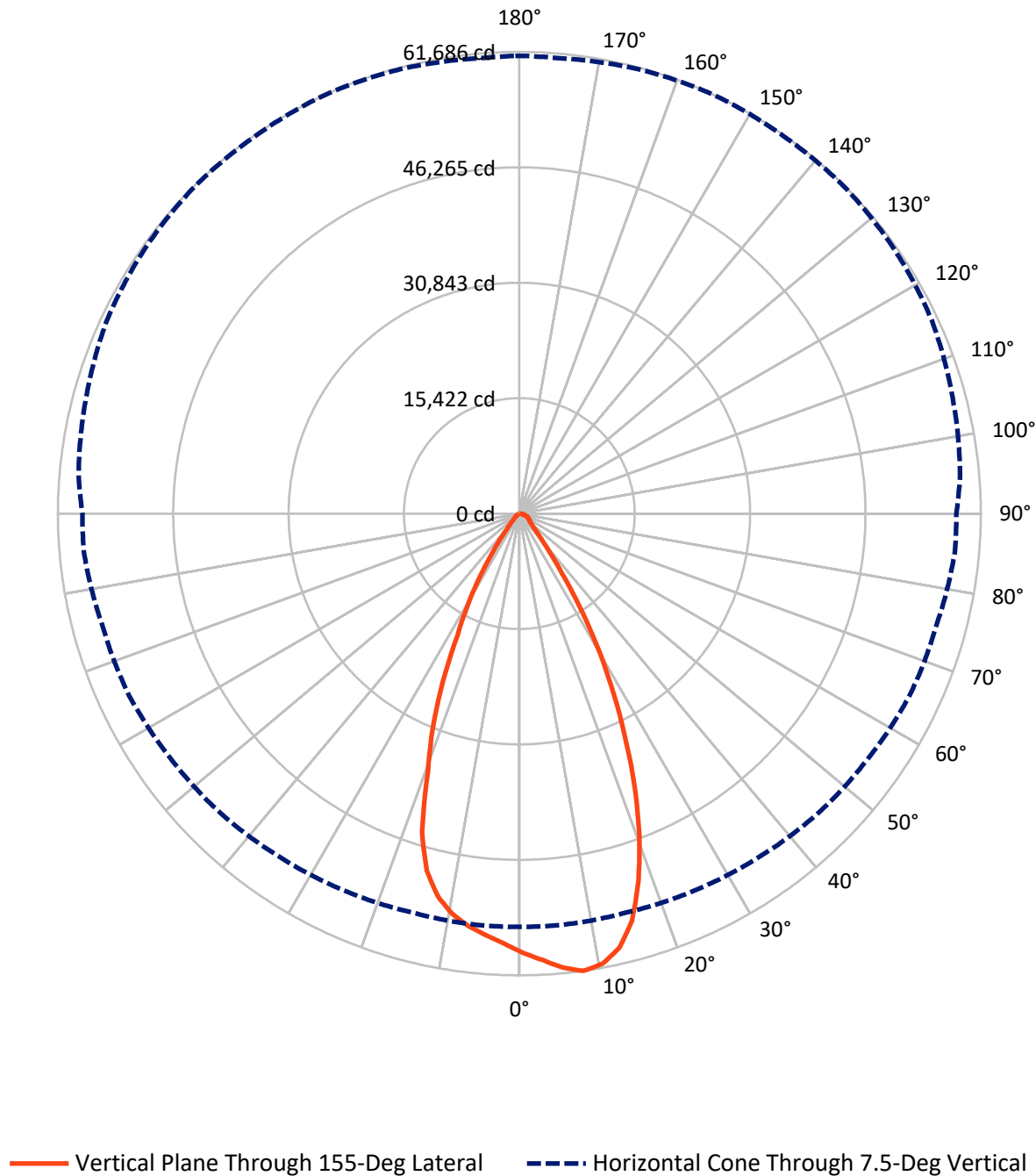
Based on 20 foot mounting height. Maximum calculated value = 149.2 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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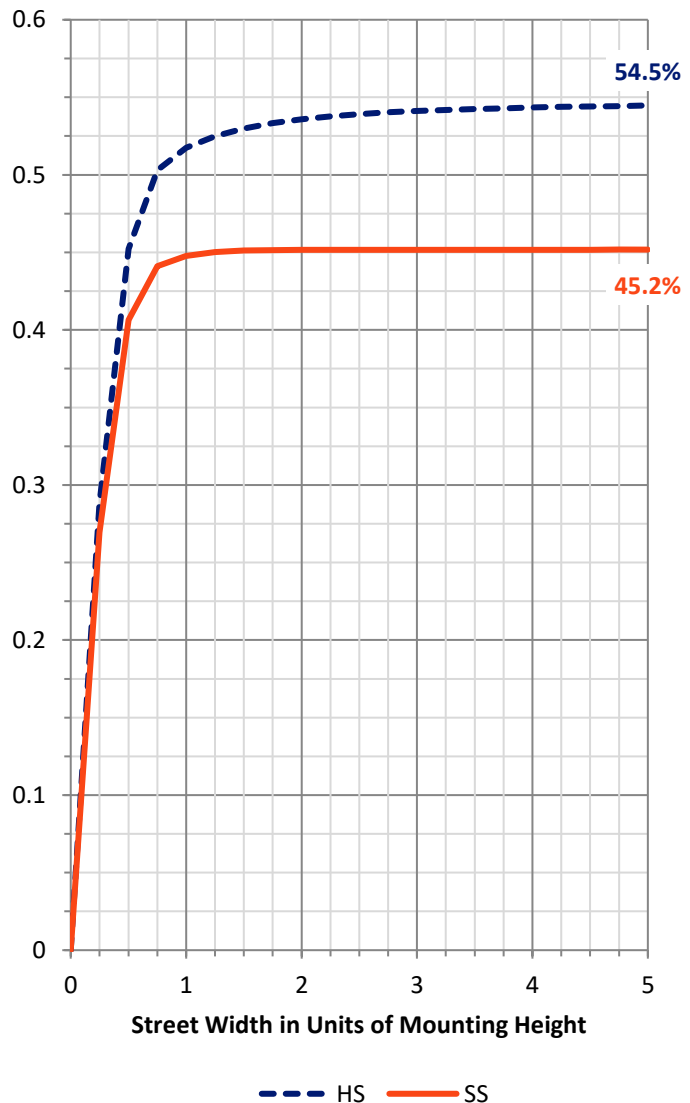
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23260.3	0.0	23260.3
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	18875.1	0.0	18875.1
	% Fixture	44.8	0.0	44.8
Total	Lumens	42135.4	0.0	42135.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5597.2	13.3
10°-20°	14513.6	34.4
20°-30°	13298.5	31.6
30°-40°	5372.6	12.8
40°-50°	1576.1	3.7
50°-60°	881.2	2.1
60°-70°	535.2	1.3
70°-80°	271.9	0.6
80°-90°	88.9	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°	42135.4	100.0
0°-180°	42135.4	100.0

Coefficient of Utilization



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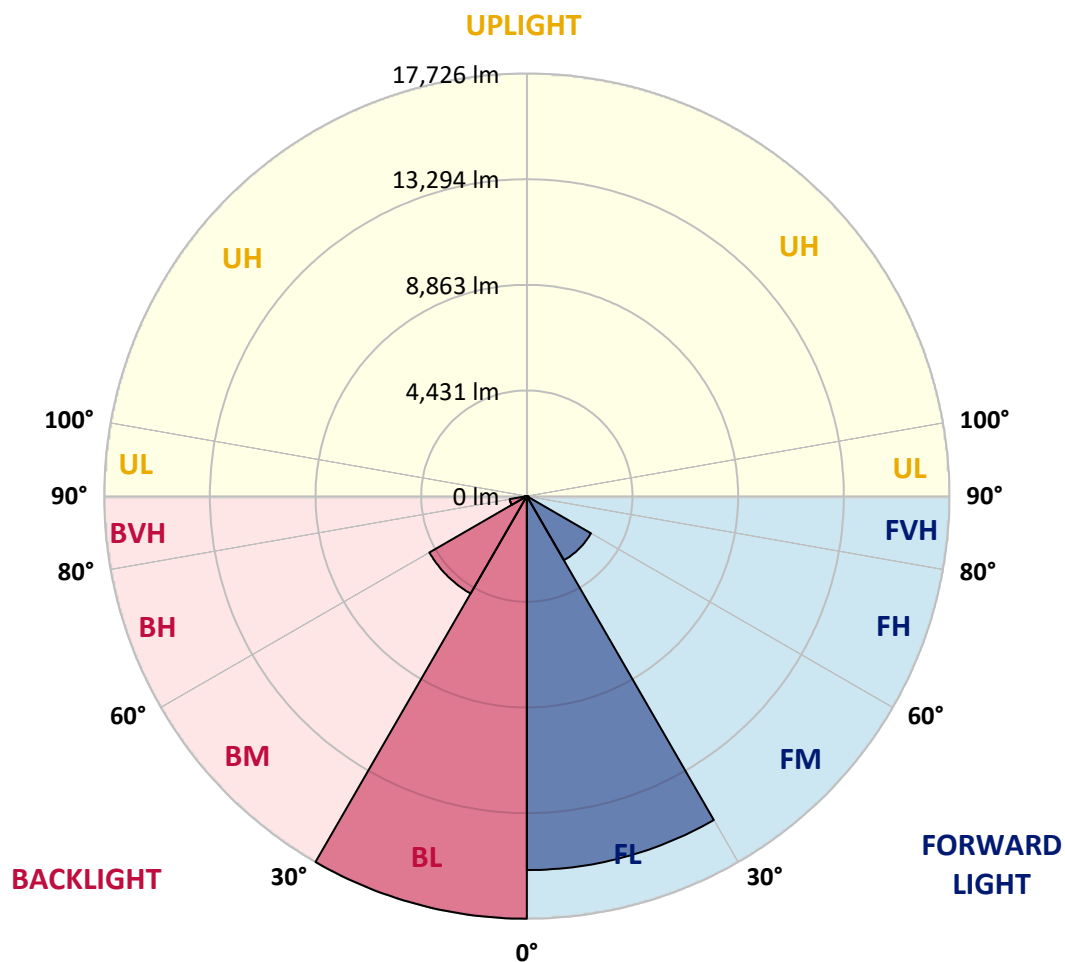
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	15683.9	37.2			
FM	(30°-60°)	3108.3	7.4			
FH	(60°-80°)	75.3	0.2			G0/660
FVH	(80°-90°)	7.7	0.0			G0/10
BL	(0°-30°)	17725.5	42.1	B5		
BM	(30°-60°)	4721.6	11.2	B3/5000		
BH	(60°-80°)	731.9	1.7	B2/1000		G2/1000
BVH	(80°-90°)	81.2	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°	58697.9	58697.9	58697.9	58697.9	58697.9	58697.9	58697.9	58697.9	58697.9	58697.9
2.5°	57424.9	57619.2	57230.5	57488.1	57687.3	58163.4	58202.3	58367.5	58425.8	58858.2
5°	56336.5	56487.2	56171.4	56516.3	56798.1	57220.8	57546.4	58003.1	58255.7	58765.9
7.5°	55204.5	55238.5	55175.3	55539.7	55962.4	56545.5	56948.7	57546.4	57701.8	58430.6
10°	53834.3	53586.5	53708.0	54242.5	54874.1	55768.1	56045.0	56642.6	56919.6	57663.0
12.5°	51647.9	51774.2	51623.6	52303.8	52828.6	53844.0	54135.6	54738.0	55267.6	55923.6
15°	48567.5	48494.6	48800.7	49330.3	49898.8	50705.3	51176.6	51832.5	52235.8	52916.0
17.5°	41643.9	41891.7	43154.9	44481.3	45647.4	46590.0	47153.6	47697.8	47989.3	48727.8
20°	35964.0	35653.1	35823.1	36571.4	39889.9	41332.9	41925.7	42056.8	42178.3	42761.4
22.5°	29613.7	29511.7	30080.2	30920.7	31707.8	35036.0	35842.6	35536.5	35789.1	36338.2
25°	21990.4	22505.5	23010.8	24623.9	25644.2	27276.7	28807.2	28943.2	29035.6	29380.5
27.5°	17899.4	17719.7	17709.9	18161.8	19668.0	21028.4	22330.6	22631.8	22578.3	22908.7
30°	14070.8	14012.5	13808.4	13915.3	13764.7	14974.5	15586.7	16825.7	16757.6	16767.4
32.5°	10149.8	9931.2	9848.6	10008.9	9853.4	9741.7	10276.1	11675.4	11651.1	11748.3
35°	6141.4	6112.2	6180.3	6321.2	6010.2	6000.5	6112.2	7428.9	7589.3	7744.8
37.5°	3391.4	3362.2	3415.7	3935.5	3833.5	3741.2	3770.3	4465.1	4926.7	5043.3
40°	2235.0	2230.1	2269.0	2361.3	2536.2	2502.2	2516.8	2827.8	3265.0	3367.1
42.5°	1496.5	1501.3	1525.6	1632.5	1656.8	1831.7	1802.6	1875.5	2283.6	2371.0
45°	1195.2	1190.4	1205.0	1156.4	1185.5	1365.3	1384.7	1389.6	1739.4	1792.9
47.5°	942.6	942.6	957.2	894.0	879.4	991.2	1093.2	1107.8	1389.6	1462.5
50°	660.8	660.8	733.7	704.5	738.5	772.5	884.3	898.9	1136.9	1214.7
52.5°	485.9	495.6	505.3	510.2	621.9	617.1	714.2	782.2	860.0	996.0
55°	369.3	379.0	354.7	379.0	461.6	515.0	534.5	631.6	685.1	835.7
57.5°	242.9	267.2	247.8	291.5	311.0	398.4	427.6	519.9	553.9	685.1
60°	34.0	38.9	63.2	204.1	218.6	262.4	330.4	413.0	447.0	558.7
62.5°	4.9	4.9	14.6	34.0	145.8	174.9	247.8	286.7	330.4	417.8
65°	0.0	0.0	4.9	9.7	29.2	102.0	126.3	155.5	228.4	301.2
67.5°	0.0	0.0	4.9	9.7	14.6	34.0	53.4	102.0	131.2	208.9
70°	0.0	0.0	4.9	9.7	14.6	19.4	29.2	38.9	77.7	121.5
72.5°	0.0	0.0	4.9	9.7	14.6	19.4	24.3	29.2	34.0	77.7
75°	0.0	0.0	4.9	9.7	14.6	24.3	29.2	29.2	29.2	34.0
77.5°	0.0	0.0	4.9	9.7	19.4	29.2	34.0	29.2	24.3	24.3
80°	0.0	0.0	4.9	14.6	24.3	34.0	38.9	29.2	19.4	14.6
82.5°	0.0	0.0	4.9	14.6	24.3	34.0	38.9	34.0	19.4	14.6
85°	0.0	0.0	4.9	14.6	19.4	24.3	38.9	34.0	19.4	9.7
87.5°	0.0	0.0	0.0	4.9	4.9	9.7	19.4	14.6	9.7	4.9
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°
58697.9	0°	58697.9	58697.9	58697.9	58697.9	58697.9	58697.9	58697.9	58697.9	58697.9
58848.5	2.5°	59285.8	59504.4	59888.3	59995.1	60325.5	59946.6	59737.6	59757.1	59305.2
58702.7	5°	59285.8	59786.2	60456.7	60777.4	61020.3	61000.9	60947.4	60811.4	60481.0
58411.2	7.5°	59130.3	59946.6	60869.7	61297.3	61588.8	61564.5	61686.0	61467.3	61064.1
57891.3	10°	58629.9	59339.2	60476.2	60826.0	61297.3	61307.0	61156.4	61200.1	60481.0
55991.6	12.5°	57055.6	57609.5	58605.6	59004.0	59577.3	59669.6	59504.4	59441.3	58761.0
52877.2	15°	54009.2	54329.9	55330.8	55729.2	56297.7	56219.9	56385.1	56317.1	55719.5
48669.5	17.5°	49553.8	49655.8	50705.3	51040.6	51575.0	51784.0	51536.2	51852.0	51337.0
42863.4	20°	43164.6	43713.7	44894.3	45409.3	45720.3	46094.4	45768.9	46123.6	45521.1
35818.3	22.5°	36683.1	37008.7	38077.6	38821.0	39399.1	39472.0	39350.6	39598.3	38786.9
29608.9	25°	29604.0	30143.3	30988.7	31960.5	32529.0	32878.8	32563.0	32723.3	32592.1
22962.2	27.5°	23350.9	23831.9	24468.4	25192.3	26047.5	26504.2	26251.5	26523.6	25882.3
17122.0	30°	17136.6	17379.5	18098.6	18866.3	19804.0	20357.9	20382.2	20659.2	20280.2
11996.1	32.5°	12083.6	12297.4	12739.5	13249.7	14143.7	14760.7	14663.5	14702.4	14469.2
7817.6	35°	7856.5	8143.2	8459.0	8701.9	9241.2	9921.5	9868.0	9819.4	9659.1
5140.5	37.5°	5252.2	5364.0	5538.9	5757.6	6107.4	6534.9	6675.8	6500.9	6432.9
3469.1	40°	3551.7	3746.1	3862.7	4027.9	4193.1	4552.6	4649.8	4615.8	4547.7
2429.3	42.5°	2521.7	2672.3	2818.0	2978.4	3065.8	3289.3	3478.8	3425.4	3396.2
1846.3	45°	1914.3	2050.4	2220.4	2341.9	2429.3	2560.5	2740.3	2759.7	2716.0
1481.9	47.5°	1535.3	1656.8	1792.9	1943.5	2045.5	2128.1	2283.6	2341.9	2312.7
1248.7	50°	1302.1	1394.4	1525.6	1676.2	1788.0	1860.9	1996.9	2060.1	2040.7
1044.6	52.5°	1107.8	1219.5	1341.0	1467.3	1603.4	1676.2	1802.6	1894.9	1880.3
864.8	55°	918.3	1064.1	1190.4	1316.7	1472.2	1545.1	1656.8	1778.3	1754.0
733.7	57.5°	801.7	923.2	1054.3	1175.8	1341.0	1438.2	1540.2	1666.5	1661.7
602.5	60°	670.5	792.0	937.7	1039.8	1214.7	1350.7	1443.0	1574.2	1583.9
456.7	62.5°	534.5	685.1	796.8	937.7	1098.1	1258.4	1345.9	1477.0	1525.6
349.8	65°	398.4	563.6	689.9	830.8	981.5	1161.2	1239.0	1370.2	1418.7
252.7	67.5°	296.4	422.7	583.0	704.5	874.6	1030.0	1122.4	1243.8	1277.8
150.6	70°	223.5	325.5	485.9	592.8	767.7	894.0	986.3	1078.6	1122.4
102.0	72.5°	131.2	242.9	383.8	510.2	660.8	767.7	835.7	908.6	937.7
48.6	75°	92.3	184.6	301.2	422.7	534.5	621.9	685.1	748.2	777.4
24.3	77.5°	48.6	136.0	238.1	340.1	417.8	490.7	553.9	602.5	621.9
19.4	80°	29.2	97.2	194.3	267.2	320.7	383.8	447.0	481.0	476.2
14.6	82.5°	19.4	77.7	140.9	194.3	233.2	281.8	325.5	349.8	349.8
9.7	85°	14.6	53.4	97.2	150.6	155.5	194.3	204.1	228.4	233.2
9.7	87.5°	9.7	34.0	53.4	87.5	82.6	102.0	106.9	121.5	131.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
58697.9
58940.8
60587.9
61156.4
60272.1
58605.6
55909.0
51210.6
45472.5
38675.2
32509.5
26047.5
20348.2
14600.4
9518.2
6418.3
4557.5
3371.9
2711.2
2298.2
2035.8
1870.6
1754.0
1656.8
1583.9
1520.8
1413.9
1277.8
1112.6
928.0
767.7
617.1
471.3
345.0
228.4
126.3
0.0

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