

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: P638091

Luminaire Tested: **IFLD-L-SA7A-727-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638091
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-727-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20134.6 lumens
Efficiency: N/A
Efficacy: 92.5 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): 217.6
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



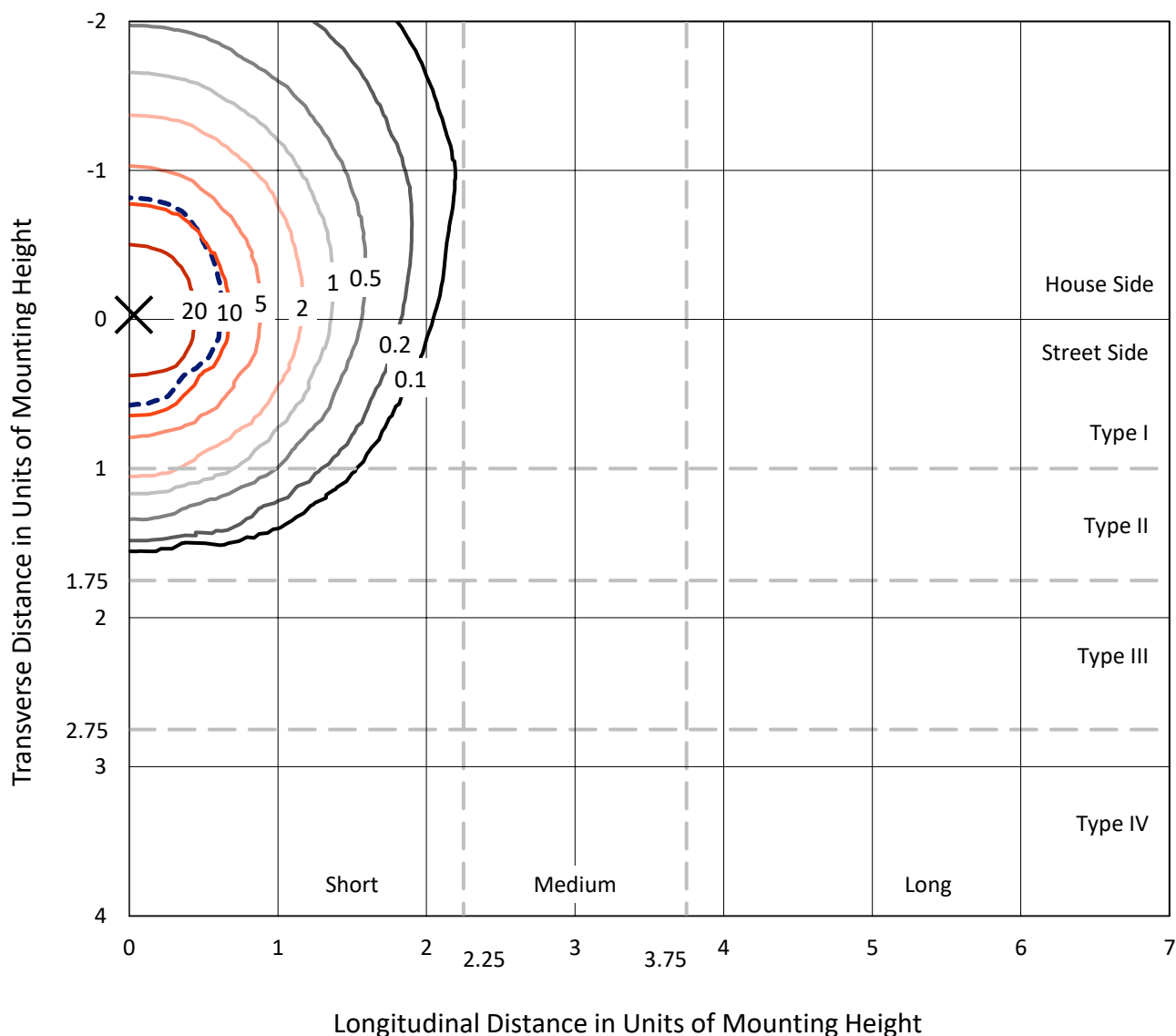
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

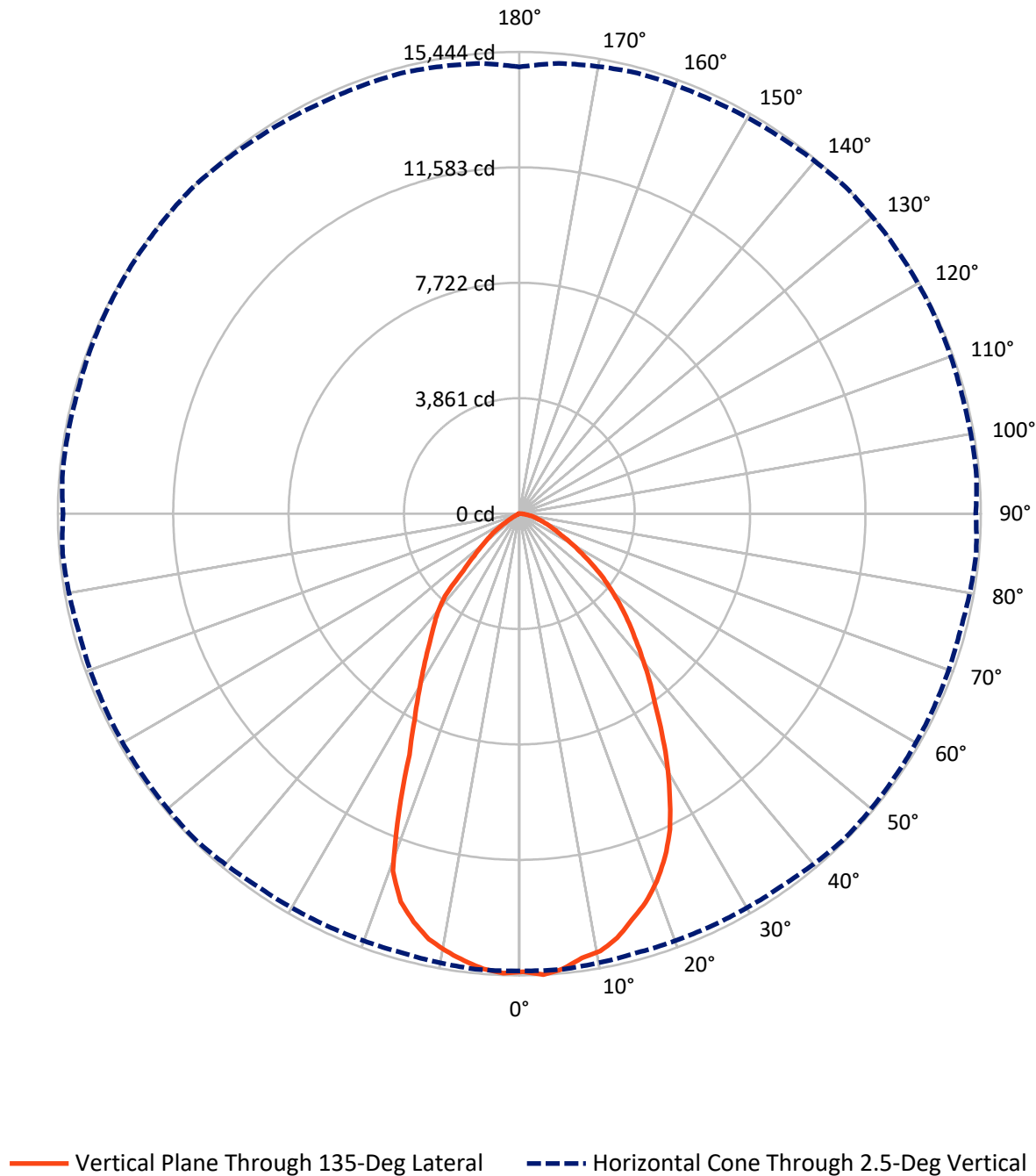


Based on 20 foot mounting height. Maximum calculated value = 38.3 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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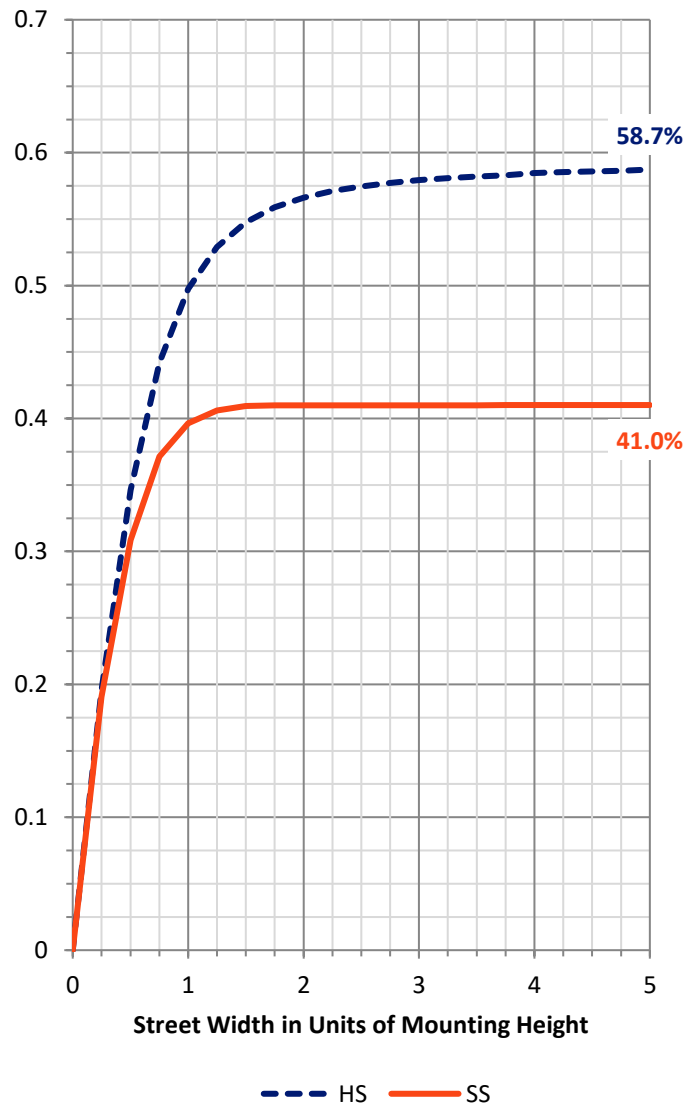
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11924.8	0.0	11924.8
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	8209.9	0.0	8209.9
	% Fixture	40.8	0.0	40.8
Total	Lumens	20134.6	0.0	20134.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1437.0	7.1
10°-20°	3853.4	19.1
20°-30°	4699.4	23.3
30°-40°	4290.5	21.3
40°-50°	3100.7	15.4
50°-60°	1693.0	8.4
60°-70°	700.0	3.5
70°-80°	283.5	1.4
80°-90°	77.1	0.4
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°	20134.6	100.0
0°-180°	20134.6	100.0

Coefficient of Utilization



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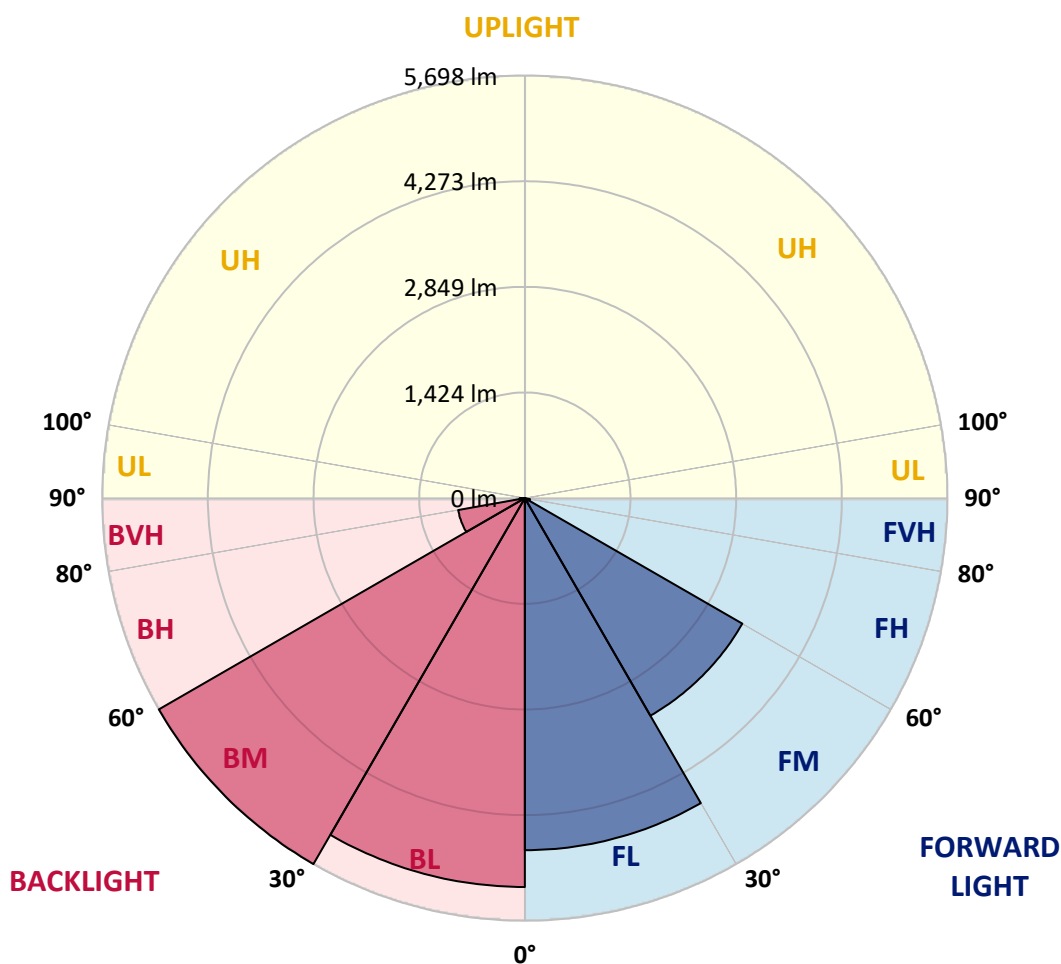
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4746.5	23.6			
FM	(30°-60°)	3386.3	16.8			
FH	(60°-80°)	70.9	0.4			G0/660
FVH	(80°-90°)	6.2	0.0			G0/10
BL	(0°-30°)	5243.4	26.0	B5		
BM	(30°-60°)	5697.9	28.3	B4/8500		
BH	(60°-80°)	912.5	4.5	B2/1000		G2/1000
BVH	(80°-90°)	70.9	0.4			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°	15322.4	15322.4	15322.4	15322.4	15322.4	15322.4	15322.4	15322.4	15322.4	15322.4
2.5°	15294.1	15313.9	15206.2	15217.5	15237.3	15381.9	15345.1	15311.1	15262.9	15345.1
5°	15274.2	15285.5	15172.1	15132.4	15149.4	15279.9	15160.8	15160.8	15149.4	15135.3
7.5°	15121.1	15126.8	15038.9	14968.0	15013.3	15072.9	14985.0	15027.5	14965.1	15013.3
10°	14891.4	14854.6	14749.7	14729.8	14780.8	14837.6	14778.0	14817.7	14761.0	14797.9
12.5°	14554.0	14497.3	14412.2	14386.7	14474.6	14551.2	14503.0	14480.3	14406.6	14497.3
15°	13252.6	13210.0	13402.9	13740.3	14043.6	14108.9	14057.8	14080.5	13927.4	13952.9
17.5°	10907.7	10828.3	11035.3	11834.9	12974.7	13575.8	13530.4	13383.0	13156.2	13207.2
20°	9912.5	9889.8	9867.1	10057.1	10853.8	12677.0	12739.4	12365.1	12041.9	11971.0
22.5°	9351.1	9342.6	9319.9	9362.4	9572.3	10743.3	11457.8	11111.9	10896.4	10876.5
25°	8837.9	8823.7	8755.7	8809.5	8809.5	8877.6	9793.4	10003.2	9813.3	9790.6
27.5°	8316.2	8290.7	8279.3	8304.8	8174.4	7715.1	7947.6	8971.1	8871.9	8877.6
30°	7751.9	7743.4	7712.2	7766.1	7363.5	6793.6	6646.1	8035.5	8055.3	8049.7
32.5°	6912.7	6949.5	7091.3	7150.8	6487.4	6016.7	5770.0	6952.4	7357.8	7349.3
35°	5021.5	5021.5	5483.6	6342.8	5684.9	5330.5	5197.3	5894.8	6668.8	6697.2
37.5°	4128.3	4142.5	4233.2	4624.5	4905.2	4780.5	4740.8	4961.9	5784.2	5829.5
40°	3714.4	3714.4	3714.4	3552.7	3544.2	4306.9	4284.3	4213.4	4995.9	5095.2
42.5°	3337.2	3345.8	3351.4	2943.1	2716.3	3722.9	3671.8	3564.1	4289.9	4406.2
45°	2948.8	2963.0	2980.0	2461.1	2361.9	2679.4	3107.6	2988.5	3592.4	3742.7
47.5°	1800.5	1823.2	2208.8	2086.8	2098.2	2067.0	2534.8	2515.0	2946.0	3158.6
50°	1216.4	1224.9	1261.7	1324.1	1800.5	1624.7	1794.8	2081.2	2237.1	2560.4
52.5°	1020.7	1034.9	944.2	859.1	1182.4	1270.3	1253.2	1545.3	1607.7	2007.5
55°	717.4	762.7	720.2	711.7	672.0	986.7	949.9	1188.0	1227.7	1525.4
57.5°	73.7	85.1	147.4	530.2	439.5	558.6	677.7	870.5	910.2	1125.6
60°	5.7	5.7	14.2	73.7	320.4	334.6	467.8	535.9	612.4	785.4
62.5°	0.0	2.8	5.7	11.3	51.0	178.6	235.3	280.7	368.6	507.5
65°	0.0	0.0	2.8	8.5	11.3	68.0	90.7	147.4	201.3	314.7
67.5°	0.0	0.0	2.8	5.7	8.5	17.0	31.2	53.9	107.7	178.6
70°	0.0	0.0	2.8	5.7	8.5	14.2	22.7	34.0	48.2	96.4
72.5°	0.0	0.0	2.8	2.8	5.7	14.2	17.0	22.7	34.0	48.2
75°	0.0	0.0	2.8	2.8	8.5	17.0	14.2	17.0	22.7	31.2
77.5°	0.0	0.0	2.8	5.7	8.5	17.0	14.2	17.0	17.0	19.8
80°	0.0	0.0	2.8	5.7	11.3	19.8	17.0	17.0	14.2	14.2
82.5°	0.0	0.0	2.8	8.5	11.3	25.5	25.5	22.7	11.3	8.5
85°	0.0	0.0	5.7	11.3	17.0	28.4	28.4	22.7	8.5	5.7
87.5°	0.0	0.0	5.7	8.5	14.2	19.8	28.4	22.7	8.5	2.8
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°
15322.4	0°	15322.4	15322.4	15322.4	15322.4	15322.4	15322.4	15322.4	15322.4	15322.4
15274.2	2.5°	15350.8	15333.7	15390.5	15413.1	15444.3	15325.2	15251.5	15254.4	15118.3
15101.2	5°	15192.0	15194.8	15268.5	15262.9	15294.1	15228.8	15200.5	15152.3	15033.2
14882.9	7.5°	14990.7	14965.1	15036.0	15089.9	15010.5	15055.9	14990.7	15013.3	14942.5
14690.1	10°	14834.7	14775.2	14840.4	14877.3	14880.1	14834.7	14772.3	14712.8	14687.3
14389.6	12.5°	14488.8	14412.2	14522.8	14573.9	14565.4	14477.5	14406.6	14420.8	14338.5
13862.2	15°	14012.5	14015.3	14094.7	14142.9	14097.5	14077.7	14083.3	14049.3	13978.4
13133.5	17.5°	13283.8	13326.3	13536.1	13652.4	13677.9	13638.2	13618.3	13578.6	13507.8
11971.0	20°	12070.2	12325.4	12699.7	13059.8	13130.7	13119.3	13048.4	13031.4	12991.7
10819.8	22.5°	11004.1	11194.1	11627.9	12189.3	12478.5	12506.9	12421.8	12396.3	12353.8
9790.6	25°	9901.2	10105.3	10496.6	11106.2	11704.5	11826.4	11812.2	11735.6	11690.3
8877.6	27.5°	8971.1	9175.3	9529.7	10079.8	10720.6	11111.9	11148.7	11026.8	11024.0
8063.8	30°	8131.9	8412.6	8681.9	9129.9	9750.9	10337.8	10400.2	10315.1	10323.6
7318.1	32.5°	7474.1	7706.6	7936.2	8236.8	8752.8	9436.2	9680.0	9600.6	9569.4
6697.2	35°	6802.1	6960.9	7196.2	7471.2	7822.8	8500.5	8922.9	8863.4	8832.2
5857.9	37.5°	6036.5	6308.7	6478.8	6787.9	7062.9	7601.7	8197.1	8188.6	8123.4
5143.4	40°	5251.1	5537.5	5795.5	6107.4	6320.1	6748.2	7408.9	7406.0	7414.5
4403.3	42.5°	4539.4	4803.1	5115.0	5455.3	5659.4	5971.3	6680.2	6719.9	6768.1
3793.7	45°	3895.8	4134.0	4423.2	4837.2	5083.8	5262.5	5891.9	6073.4	6070.6
3249.3	47.5°	3317.4	3541.4	3785.2	4187.9	4502.6	4664.2	5185.9	5443.9	5426.9
2665.3	50°	2784.3	2982.8	3238.0	3530.1	3952.5	4094.3	4482.7	4823.0	4797.5
2123.7	52.5°	2240.0	2515.0	2730.5	2997.0	3442.2	3581.1	3881.6	4213.4	4193.5
1593.5	55°	1746.6	2013.1	2274.0	2503.6	2877.9	3084.9	3300.4	3640.6	3635.0
1247.6	57.5°	1321.3	1613.3	1860.0	2078.3	2376.1	2631.2	2804.2	3113.2	3152.9
853.5	60°	978.2	1202.2	1468.7	1712.6	1947.9	2211.6	2327.8	2631.2	2648.2
584.1	62.5°	666.3	913.0	1173.8	1395.0	1570.8	1843.0	1947.9	2197.4	2228.6
374.3	65°	462.2	620.9	918.7	1077.4	1292.9	1525.4	1630.3	1828.8	1891.2
215.5	67.5°	306.2	442.3	717.4	862.0	1074.6	1233.4	1366.7	1528.3	1596.3
136.1	70°	167.3	326.1	513.2	680.5	864.8	1017.9	1148.3	1278.8	1338.3
62.4	72.5°	113.4	218.3	357.3	538.7	697.5	847.8	964.0	1060.4	1063.3
36.9	75°	56.7	147.4	272.2	416.8	544.4	691.8	796.7	853.5	785.4
22.7	77.5°	34.0	107.7	221.2	334.6	442.3	558.6	618.1	649.3	538.7
17.0	80°	19.8	76.6	173.0	266.5	306.2	411.1	467.8	476.3	360.1
11.3	82.5°	14.2	56.7	136.1	195.6	187.1	289.2	351.6	340.2	229.7
8.5	85°	8.5	39.7	85.1	121.9	113.4	190.0	204.1	209.8	133.3
5.7	87.5°	5.7	22.7	45.4	65.2	53.9	82.2	82.2	99.2	65.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
15322.4
14942.5
15004.8
14823.4
14573.9
14267.6
13907.6
13476.6
12901.0
12342.4
11642.1
11018.3
10281.1
9572.3
8789.7
8177.2
7414.5
6742.5
6076.2
5432.6
4820.2
4236.1
3649.1
3135.9
2673.8
2234.3
1877.0
1587.8
1315.6
1037.7
734.4
518.9
337.4
212.7
121.9
56.7
0.0

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