

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: P636655

Luminaire Tested: **IFLD-S-SA3A-940-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636655
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-940-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (48) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7915.8 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 94.8
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

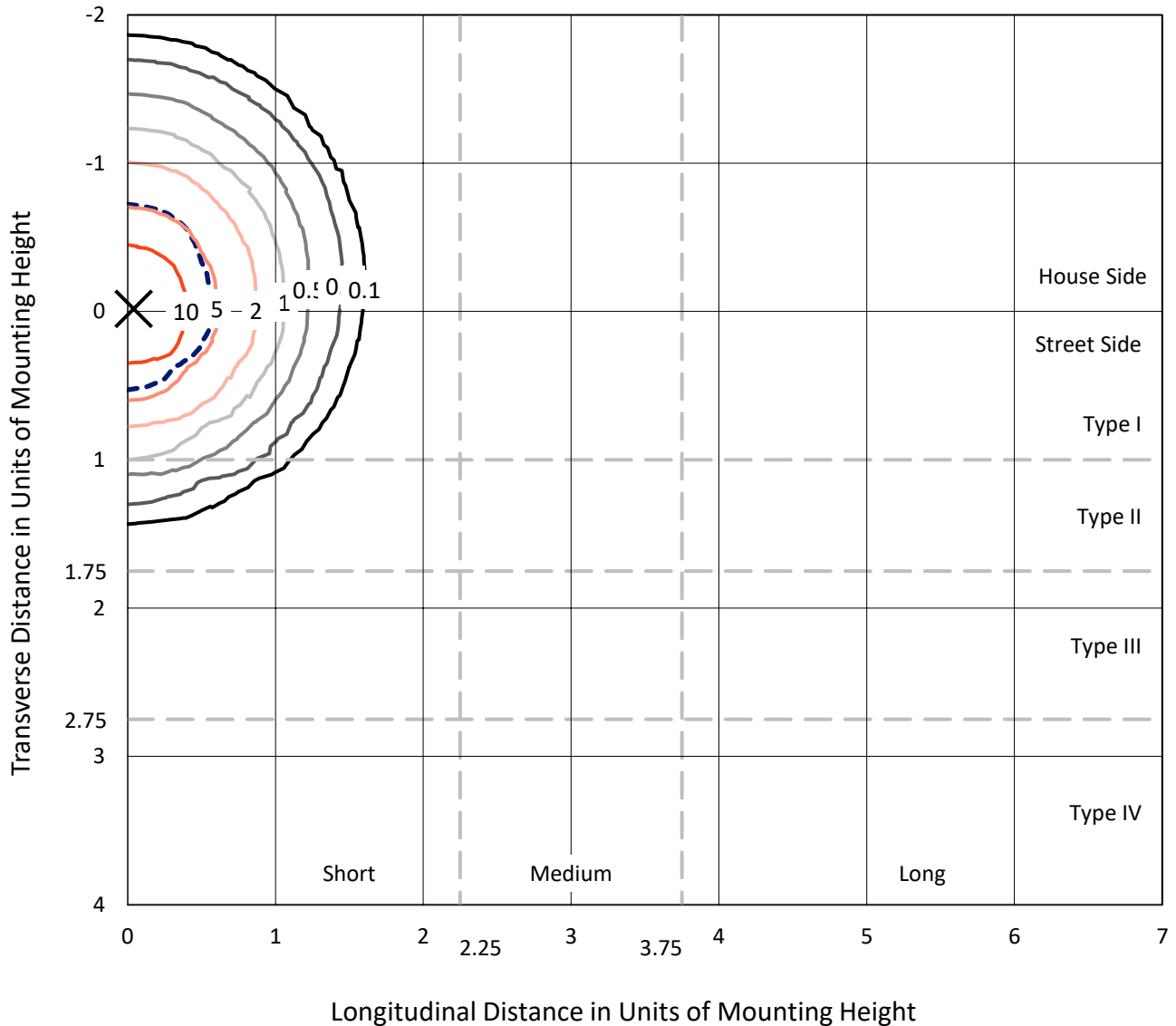




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Iso-Footcandle Lines of Horizontal Illumination

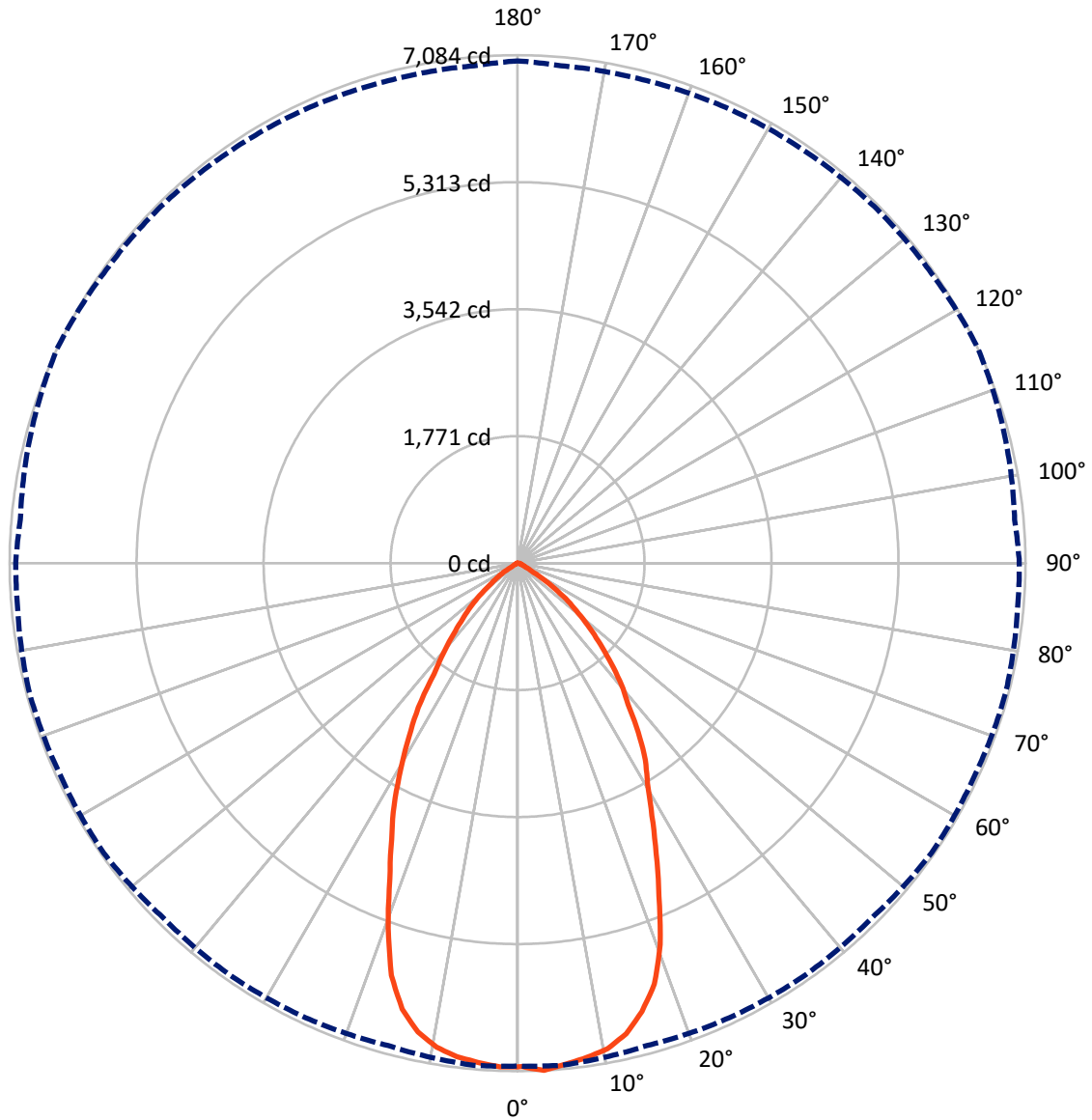
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 17.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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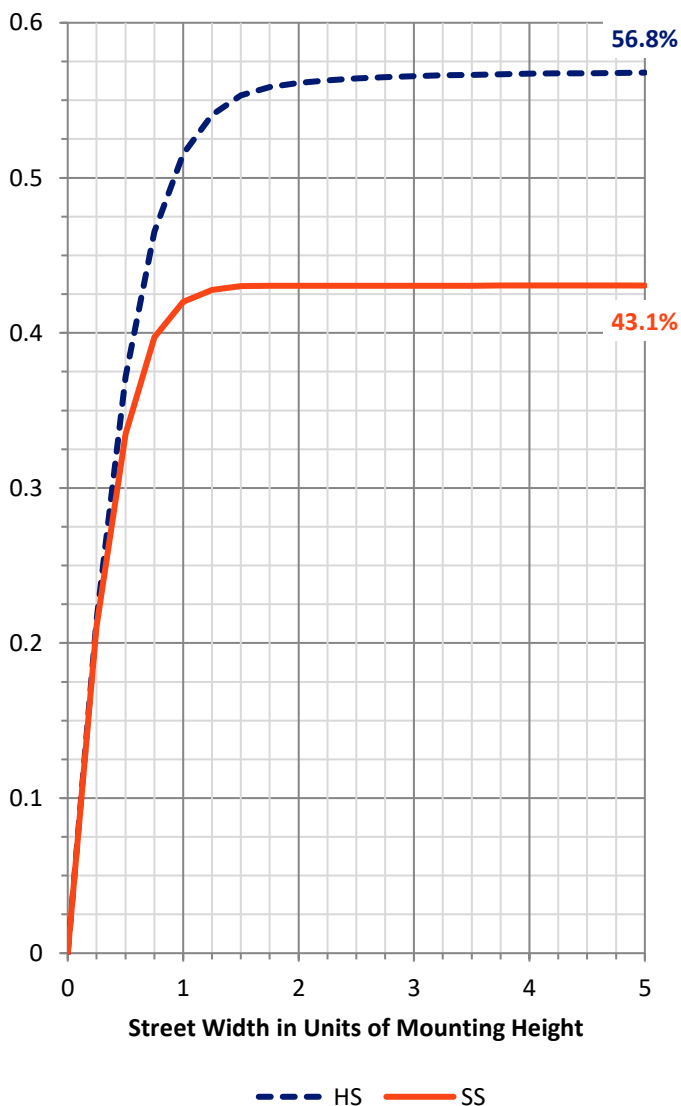
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4530.1	0.0	4530.1
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	3385.7	0.0	3385.7
	% Fixture	42.8	0.0	42.8
Total	Lumens	7915.8	0.0	7915.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	661.5	8.4
10°-20°	1754.0	22.2
20°-30°	2006.2	25.3
30°-40°	1719.3	21.7
40°-50°	1136.8	14.4
50°-60°	496.1	6.3
60°-70°	97.5	1.2
70°-80°	35.2	0.4
80°-90°	9.3	0.1
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°	7915.8	100.0
0°-180°	7915.8	100.0



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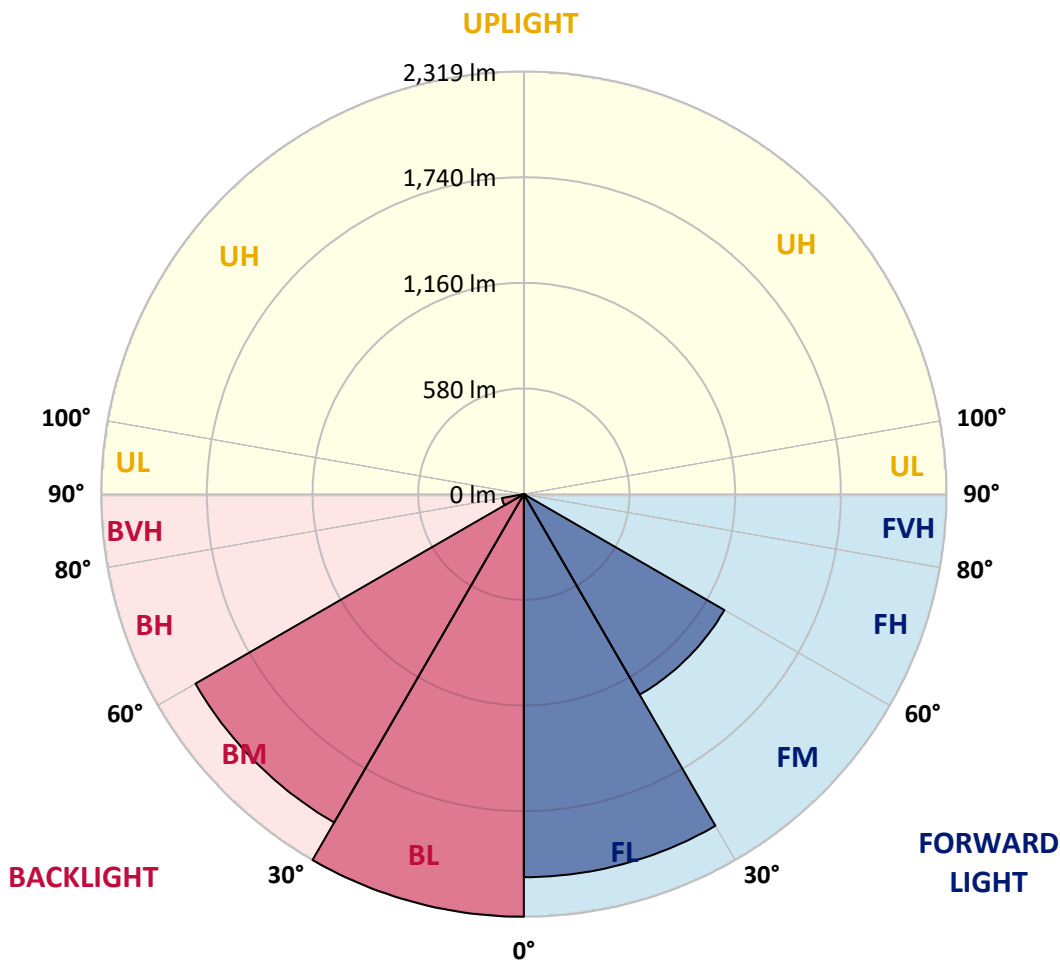
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2102.3	26.6			
FM (30°-60°)	1271.1	16.1			
FH (60°-80°)	10.8	0.1			G0/660
FVH (80°-90°)	1.5	0.0			G0/10
BL (0°-30°)	2319.4	29.3	B3/2500		
BM (30°-60°)	2081.0	26.3	B2/2500		
BH (60°-80°)	121.9	1.5	B1/500		G1/500
BVH (80°-90°)	7.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7023.4	7023.4	7023.4	7023.4	7023.4	7023.4	7023.4	7023.4	7023.4	7023.4
2.5°	7013.3	7030.1	6966.1	6994.7	7006.5	6991.4	7046.9	7030.1	7043.5	7001.5
5°	7013.3	7030.1	6956.0	6969.5	6972.9	6944.3	7004.8	6984.7	6986.3	6942.6
7.5°	6969.5	6989.7	6922.4	6932.5	6934.2	6910.6	6962.8	6934.2	6924.1	6878.6
10°	6851.7	6863.5	6802.9	6828.2	6851.7	6829.8	6875.3	6843.3	6843.3	6802.9
12.5°	6665.0	6686.8	6619.5	6649.8	6670.0	6644.8	6696.9	6685.1	6686.8	6646.4
15°	6325.1	6249.3	6330.1	6390.7	6392.4	6387.3	6436.1	6424.3	6432.7	6372.2
17.5°	4672.7	4654.2	4748.4	5463.5	5995.3	6067.6	6076.0	6012.1	5983.5	5924.6
20°	4329.4	4342.9	4322.7	4326.1	4745.1	5615.0	5562.8	5404.7	5332.3	5273.4
22.5°	4078.7	4056.9	4043.4	4035.0	4046.8	4613.8	4989.0	4750.1	4711.4	4682.8
25°	3806.1	3796.0	3779.2	3775.9	3769.1	3673.2	4213.3	4235.2	4173.0	4137.6
27.5°	3552.1	3545.3	3526.8	3525.1	3447.7	3215.5	3274.4	3794.4	3777.5	3764.1
30°	3281.2	3267.7	3257.6	3257.6	3023.7	2784.8	2688.9	3308.1	3308.1	3296.3
32.5°	2986.7	2974.9	2978.3	2937.9	2658.6	2439.8	2288.4	2855.4	3032.1	3022.0
35°	1825.7	1822.3	2163.9	2613.1	2285.0	2086.5	2076.4	2443.2	2700.6	2727.6
37.5°	1625.4	1615.3	1620.4	1649.0	1956.9	1877.8	1874.5	1936.7	2298.5	2312.0
40°	1458.9	1452.1	1447.1	1344.4	1246.8	1675.9	1664.1	1623.8	1963.6	1987.2
42.5°	1300.7	1294.0	1294.0	1149.2	991.1	1378.1	1383.1	1336.0	1655.7	1664.1
45°	1137.5	1132.4	1103.8	917.0	871.6	915.4	1145.9	1092.0	1314.1	1401.6
47.5°	536.8	533.4	772.3	762.2	758.9	731.9	875.0	905.3	1043.2	1130.7
50°	430.8	427.4	407.2	358.4	624.3	555.3	631.0	696.6	740.4	821.1
52.5°	356.7	353.4	311.3	276.0	346.6	405.5	376.9	466.1	464.4	551.9
55°	233.9	217.1	238.9	225.5	181.7	294.5	287.7	353.4	344.9	420.7
57.5°	5.0	5.0	11.8	127.9	114.4	124.5	164.9	201.9	227.2	249.0
60°	1.7	1.7	3.4	6.7	47.1	52.2	63.9	74.0	104.3	129.6
62.5°	0.0	0.0	1.7	3.4	6.7	26.9	30.3	35.3	48.8	67.3
65°	0.0	0.0	0.0	1.7	3.4	6.7	10.1	21.9	30.3	38.7
67.5°	0.0	0.0	0.0	1.7	1.7	3.4	6.7	10.1	13.5	26.9
70°	0.0	0.0	0.0	1.7	1.7	3.4	5.0	6.7	10.1	13.5
72.5°	0.0	0.0	0.0	1.7	1.7	5.0	3.4	5.0	6.7	8.4
75°	0.0	0.0	0.0	1.7	1.7	1.7	3.4	5.0	5.0	6.7
77.5°	0.0	0.0	0.0	1.7	3.4	3.4	3.4	3.4	3.4	5.0
80°	0.0	0.0	0.0	1.7	1.7	3.4	5.0	6.7	3.4	3.4
82.5°	0.0	0.0	0.0	3.4	1.7	6.7	10.1	8.4	3.4	1.7
85°	0.0	0.0	0.0	1.7	6.7	8.4	8.4	5.0	1.7	1.7
87.5°	0.0	0.0	0.0	1.7	1.7	3.4	5.0	5.0	1.7	1.7
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°
7023.4	0°	7023.4	7023.4	7023.4	7023.4	7023.4	7023.4	7023.4	7023.4	7023.4
6998.1	2.5°	6959.4	7025.0	7083.9	7046.9	7033.4	7006.5	6986.3	6964.5	6962.8
6937.5	5°	6898.8	6961.1	7018.3	6974.6	6977.9	6964.5	6951.0	6946.0	6949.3
6875.3	7.5°	6846.7	6898.8	6961.1	6924.1	6934.2	6925.8	6919.0	6908.9	6924.1
6794.5	10°	6767.6	6814.7	6887.1	6851.7	6846.7	6838.3	6831.5	6813.0	6821.4
6648.1	12.5°	6594.3	6653.2	6735.6	6695.2	6708.7	6685.1	6675.0	6663.3	6665.0
6394.0	15°	6358.7	6404.1	6488.3	6456.3	6466.4	6451.3	6451.3	6451.3	6463.0
5933.0	17.5°	5948.1	6040.7	6173.6	6133.2	6148.4	6151.7	6148.4	6160.2	6175.3
5276.8	20°	5280.1	5438.3	5680.6	5759.7	5791.7	5793.3	5769.8	5798.4	5828.7
4662.6	22.5°	4666.0	4832.6	5046.2	5263.3	5397.9	5391.2	5394.6	5413.1	5445.0
4115.7	25°	4134.3	4294.1	4487.6	4681.1	4975.6	5036.2	5037.8	5054.7	5079.9
3742.2	27.5°	3750.6	3812.9	3989.5	4184.7	4501.1	4694.6	4684.5	4699.6	4726.5
3274.4	30°	3287.9	3526.8	3567.2	3686.7	3959.3	4314.3	4316.0	4332.8	4359.7
2998.5	32.5°	2990.1	3148.2	3272.7	3276.1	3508.3	3873.4	3945.8	3962.6	3981.1
2712.4	35°	2710.7	2729.2	2897.5	2944.6	3079.2	3441.0	3568.9	3579.0	3609.3
2306.9	37.5°	2345.6	2455.0	2502.1	2670.4	2677.1	2969.9	3223.9	3213.8	3237.4
1985.5	40°	2010.8	2115.1	2234.6	2357.4	2374.2	2593.0	2874.0	2884.1	2894.1
1647.3	42.5°	1660.8	1793.7	1916.5	1999.0	2113.4	2239.6	2507.1	2554.3	2577.8
1411.7	45°	1437.0	1474.0	1620.4	1741.5	1857.6	1916.5	2167.2	2253.1	2268.2
1117.3	47.5°	1132.4	1256.9	1356.2	1458.9	1603.6	1655.7	1837.4	1956.9	1968.7
829.5	50°	875.0	964.2	1100.4	1193.0	1361.3	1389.9	1514.4	1669.2	1684.3
555.3	52.5°	625.9	747.1	880.0	969.2	1130.7	1167.8	1260.3	1408.4	1418.5
425.7	55°	449.3	528.4	637.7	765.6	883.4	965.8	1029.8	1171.1	1184.6
279.3	57.5°	306.2	380.3	425.7	553.6	624.3	713.4	765.6	873.3	883.4
132.9	60°	146.4	181.7	217.1	281.0	326.4	402.2	435.8	479.6	491.3
80.8	62.5°	94.2	111.1	141.3	168.3	212.0	259.1	272.6	309.6	323.1
50.5	65°	62.3	79.1	111.1	117.8	161.5	198.6	215.4	242.3	257.4
30.3	67.5°	35.3	55.5	82.4	97.6	127.9	163.2	181.7	205.3	218.7
20.2	70°	23.6	45.4	65.6	80.8	101.0	131.2	154.8	175.0	183.4
10.1	72.5°	13.5	28.6	45.4	63.9	80.8	109.4	131.2	148.1	97.6
6.7	75°	8.4	21.9	38.7	53.8	67.3	87.5	106.0	104.3	43.7
5.0	77.5°	6.7	16.8	33.7	45.4	55.5	60.6	75.7	85.8	33.7
3.4	80°	5.0	13.5	30.3	38.7	21.9	43.7	58.9	63.9	23.6
3.4	82.5°	3.4	8.4	25.2	26.9	15.1	32.0	47.1	42.1	16.8
1.7	85°	1.7	5.0	8.4	15.1	13.5	15.1	11.8	16.8	11.8
1.7	87.5°	1.7	3.4	6.7	6.7	6.7	5.0	6.7	6.7	6.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7023.4
7003.2
6991.4
6966.1
6861.8
6713.7
6468.1
6225.8
5848.9
5450.1
5123.6
4751.8
4406.8
4023.2
3641.2
3266.0
2926.1
2611.5
2305.2
1997.3
1706.2
1437.0
1196.4
903.6
504.8
326.4
257.4
217.1
181.7
79.1
43.7
33.7
25.2
16.8
11.8
6.7
0.0

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