

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: P638131

Luminaire Tested: **IFLD-S-SA2C-735-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638131
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-735-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10782.9 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

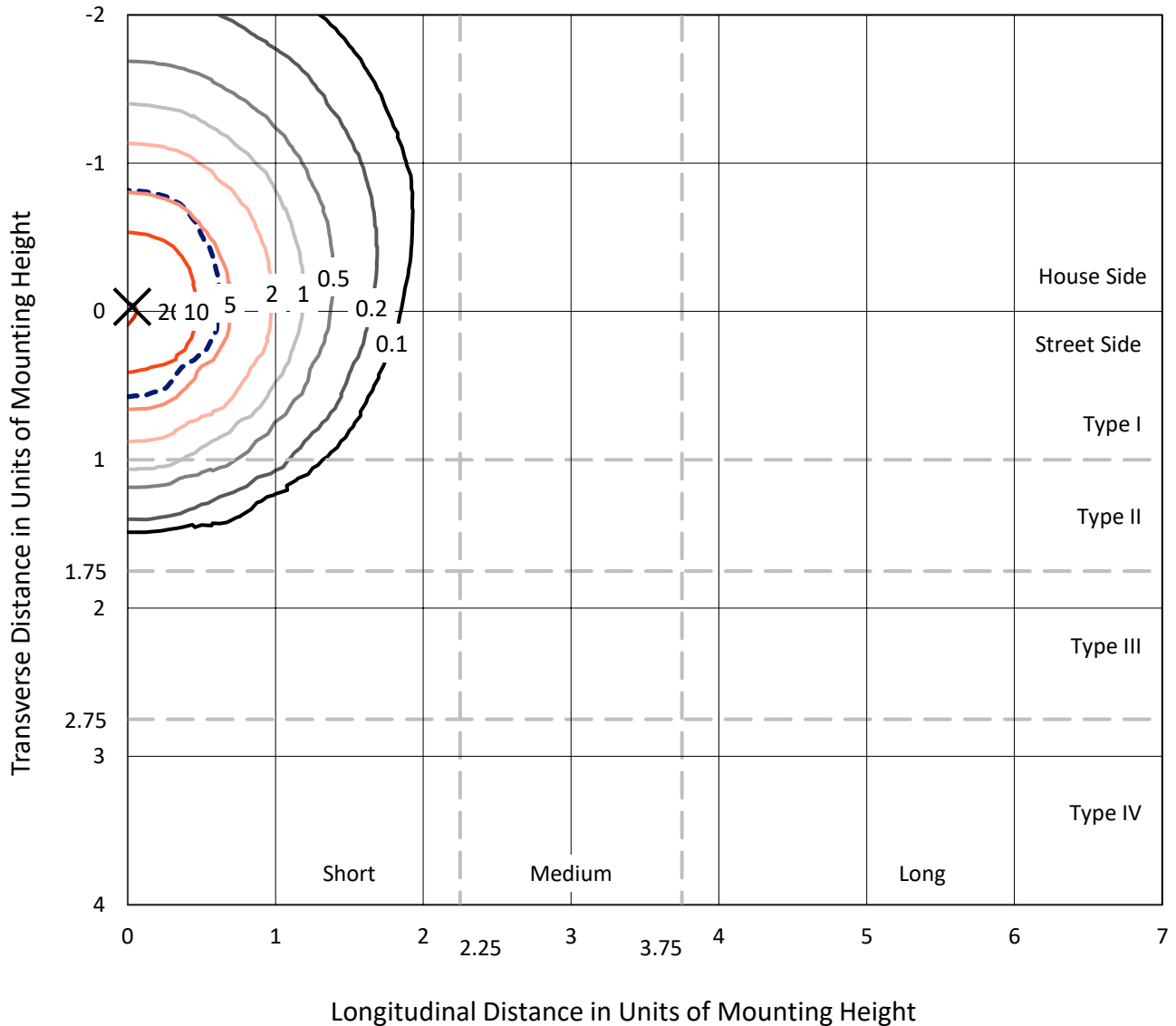
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638131
 CATALOG NUMBER: IFLD-S-SA2C-735-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

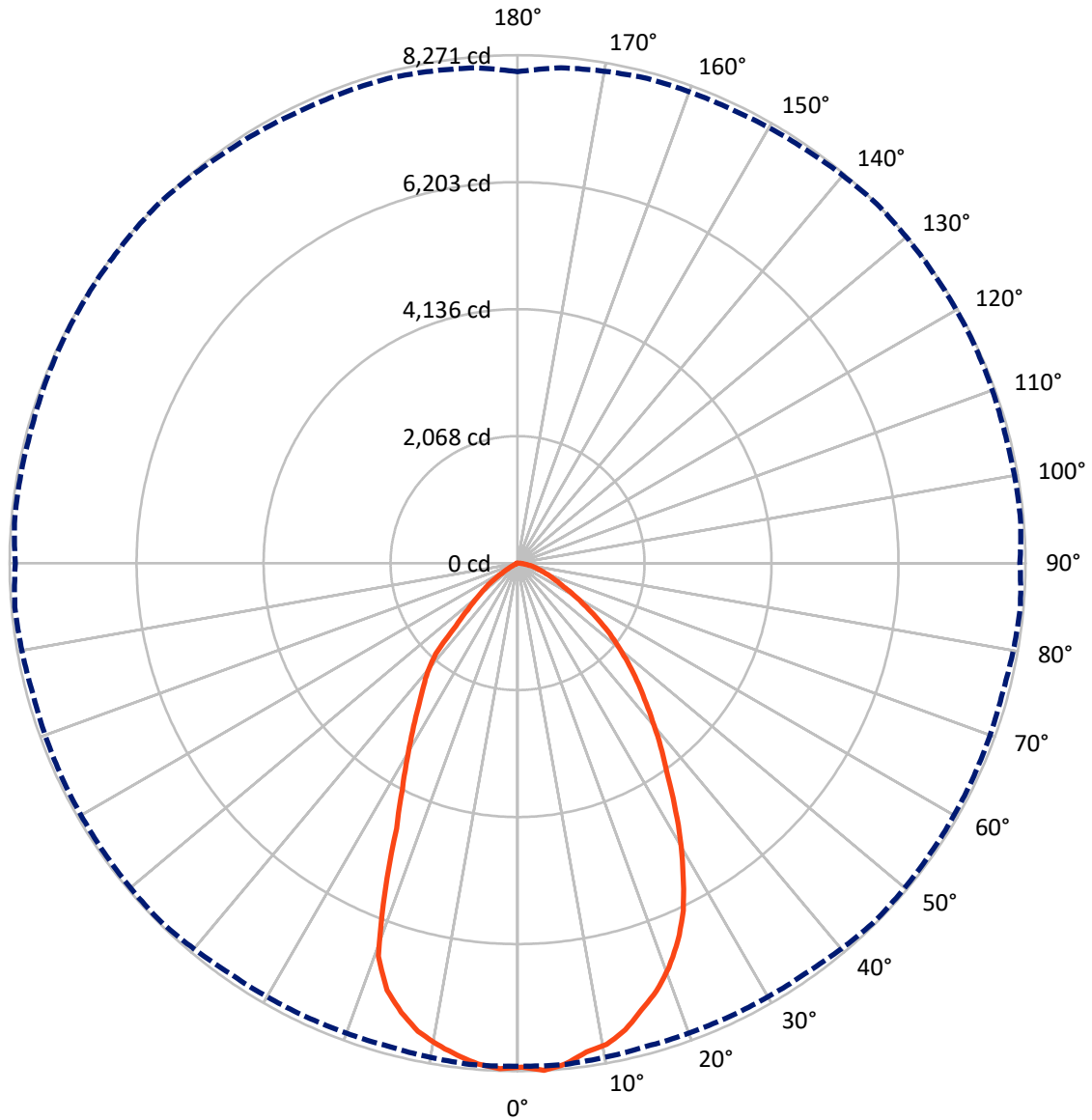
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 20.5 fc
 Type I - Short - N/A

REPORT NUMBER: P638131
CATALOG NUMBER: IFLD-S-SA2C-735-U-77-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P638131
 CATALOG NUMBER: IFLD-S-SA2C-735-U-77-VI

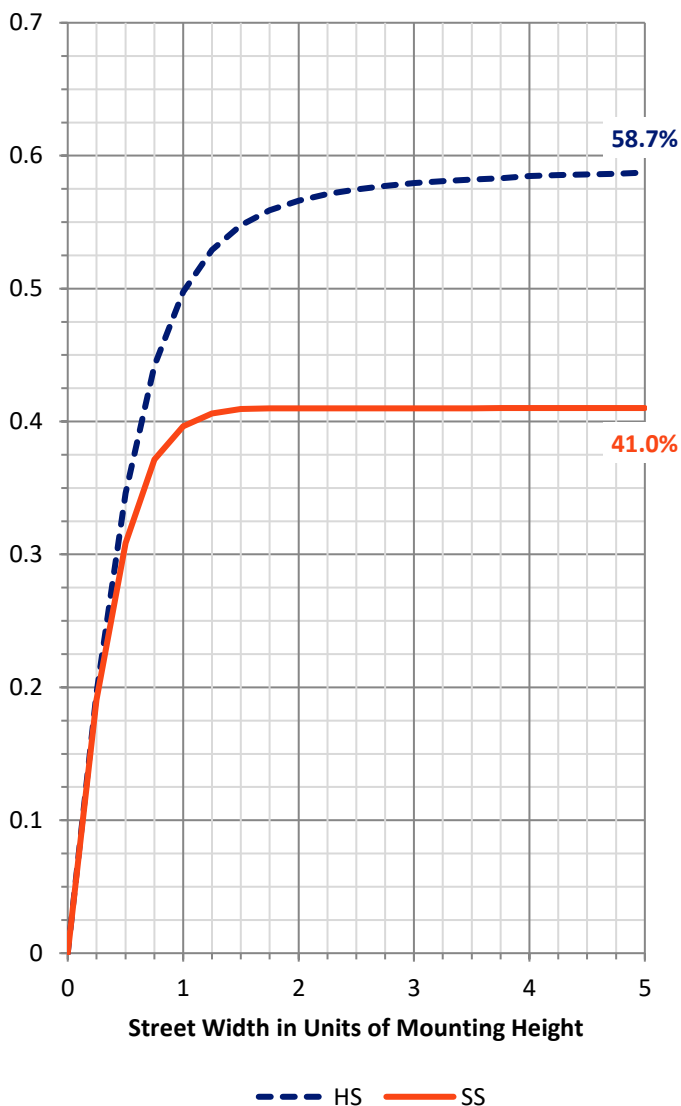
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6386.2	0.0	6386.2
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	4396.7	0.0	4396.7
	% Fixture	40.8	0.0	40.8
Total	Lumens	10782.9	0.0	10782.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	769.6	7.1
10°-20°	2063.7	19.1
20°-30°	2516.7	23.3
30°-40°	2297.8	21.3
40°-50°	1660.5	15.4
50°-60°	906.7	8.4
60°-70°	374.9	3.5
70°-80°	151.8	1.4
80°-90°	41.3	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°	10782.9	100.0
0°-180°	10782.9	100.0



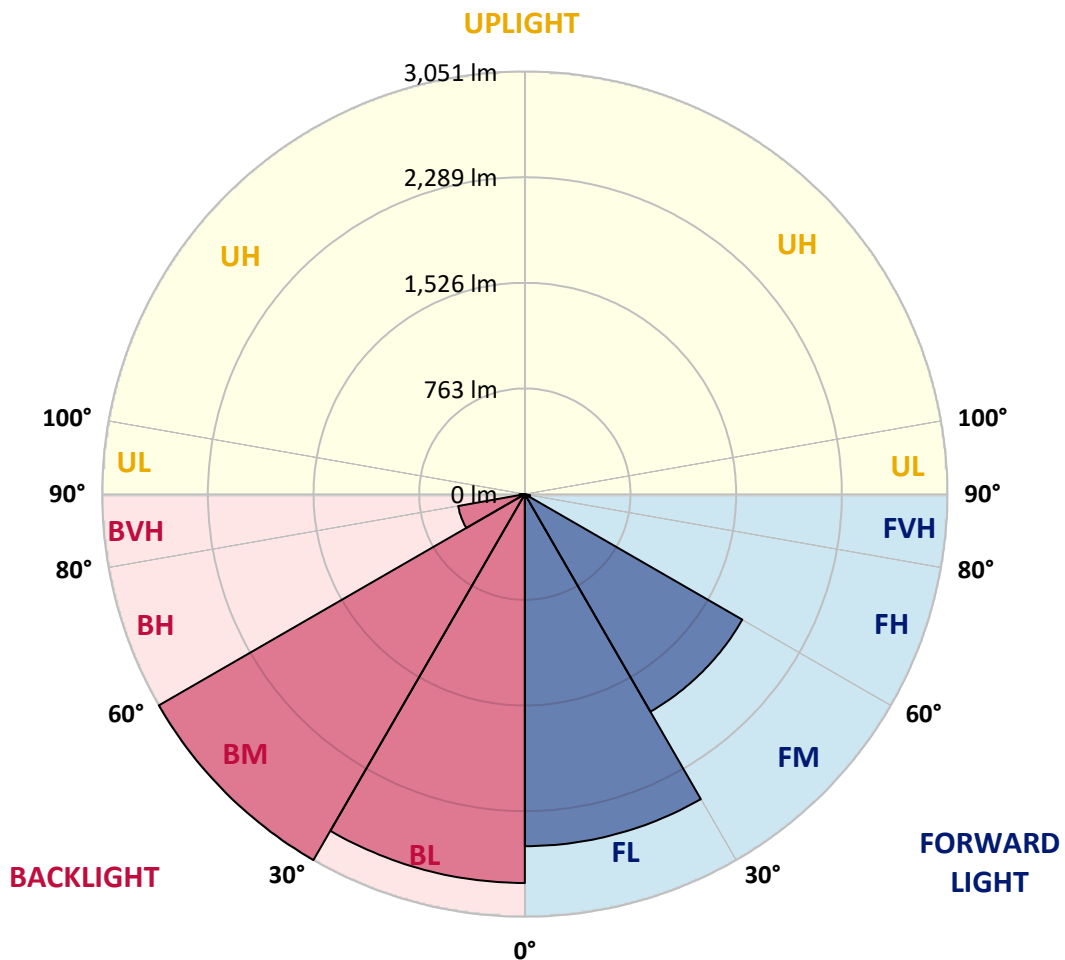
REPORT NUMBER: P638131
 CATALOG NUMBER: IFLD-S-SA2C-735-U-77-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2541.9	23.6			
FM (30°-60°)	1813.5	16.8			
FH (60°-80°)	38.0	0.4			G0/660
FVH (80°-90°)	3.3	0.0			G0/10
BL (0°-30°)	2808.0	26.0	B4/5000		
BM (30°-60°)	3051.5	28.3	B3/5000		
BH (60°-80°)	488.7	4.5	B1/500		G1/500
BVH (80°-90°)	38.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short





REPORT NUMBER: P638131
 CATALOG NUMBER: IFLD-S-SA2C-735-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8205.8	8205.8	8205.8	8205.8	8205.8	8205.8	8205.8	8205.8	8205.8	8205.8
2.5°	8190.6	8201.2	8143.5	8149.6	8160.2	8237.7	8217.9	8199.7	8173.9	8217.9
5°	8180.0	8186.0	8125.3	8104.1	8113.2	8183.0	8119.2	8119.2	8113.2	8105.6
7.5°	8098.0	8101.0	8053.9	8016.0	8040.3	8072.2	8025.1	8047.9	8014.5	8040.3
10°	7975.0	7955.2	7899.1	7888.4	7915.8	7946.1	7914.2	7935.5	7905.1	7924.9
12.5°	7794.3	7763.9	7718.4	7704.7	7751.8	7792.8	7767.0	7754.8	7715.3	7763.9
15°	7097.3	7074.5	7177.8	7358.5	7521.0	7555.9	7528.6	7540.7	7458.7	7472.4
17.5°	5841.5	5799.0	5909.9	6338.1	6948.5	7270.4	7246.1	7167.2	7045.7	7073.0
20°	5308.6	5296.4	5284.3	5386.0	5812.7	6789.1	6822.5	6622.0	6448.9	6411.0
22.5°	5007.9	5003.3	4991.2	5014.0	5126.3	5753.5	6136.1	5950.9	5835.5	5824.8
25°	4733.1	4725.5	4689.0	4717.9	4717.9	4754.3	5244.8	5357.1	5255.4	5243.3
27.5°	4453.7	4440.0	4433.9	4447.6	4377.7	4131.7	4256.3	4804.4	4751.3	4754.3
30°	4151.5	4146.9	4130.2	4159.1	3943.5	3638.2	3559.3	4303.3	4314.0	4310.9
32.5°	3702.0	3721.8	3797.7	3829.6	3474.2	3222.2	3090.1	3723.3	3940.4	3935.9
35°	2689.2	2689.2	2936.7	3396.8	3044.5	2854.7	2783.3	3156.9	3571.4	3586.6
37.5°	2210.9	2218.5	2267.1	2476.6	2626.9	2560.1	2538.9	2657.3	3097.7	3122.0
40°	1989.2	1989.2	1989.2	1902.6	1898.1	2306.5	2294.4	2256.4	2675.5	2728.7
42.5°	1787.2	1791.8	1794.8	1576.2	1454.7	1993.7	1966.4	1908.7	2297.4	2359.7
45°	1579.2	1586.8	1595.9	1318.0	1264.9	1435.0	1664.2	1600.5	1923.9	2004.4
47.5°	964.2	976.4	1182.9	1117.6	1123.7	1107.0	1357.5	1346.9	1577.7	1691.6
50°	651.4	656.0	675.7	709.1	964.2	870.1	961.2	1114.6	1198.1	1371.2
52.5°	546.6	554.2	505.6	460.1	633.2	680.3	671.2	827.6	861.0	1075.1
55°	384.2	408.5	385.7	381.1	359.9	528.4	508.7	636.2	657.5	816.9
57.5°	39.5	45.6	79.0	284.0	235.4	299.1	362.9	466.2	487.4	602.8
60°	3.0	3.0	7.6	39.5	171.6	179.2	250.5	287.0	328.0	420.6
62.5°	0.0	1.5	3.0	6.1	27.3	95.7	126.0	150.3	197.4	271.8
65°	0.0	0.0	1.5	4.6	6.1	36.4	48.6	79.0	107.8	168.5
67.5°	0.0	0.0	1.5	3.0	4.6	9.1	16.7	28.9	57.7	95.7
70°	0.0	0.0	1.5	3.0	4.6	7.6	12.1	18.2	25.8	51.6
72.5°	0.0	0.0	1.5	1.5	3.0	7.6	9.1	12.1	18.2	25.8
75°	0.0	0.0	1.5	1.5	4.6	9.1	7.6	9.1	12.1	16.7
77.5°	0.0	0.0	1.5	3.0	4.6	9.1	7.6	9.1	9.1	10.6
80°	0.0	0.0	1.5	3.0	6.1	10.6	9.1	9.1	7.6	7.6
82.5°	0.0	0.0	1.5	4.6	6.1	13.7	13.7	12.1	6.1	4.6
85°	0.0	0.0	3.0	6.1	9.1	15.2	15.2	12.1	4.6	3.0
87.5°	0.0	0.0	3.0	4.6	7.6	10.6	15.2	12.1	4.6	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638131
 CATALOG NUMBER: IFLD-S-SA2C-735-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
8205.8	0°	8205.8	8205.8	8205.8	8205.8	8205.8	8205.8	8205.8	8205.8	8205.8
8180.0	2.5°	8221.0	8211.9	8242.2	8254.4	8271.1	8207.3	8167.8	8169.3	8096.5
8087.3	5°	8135.9	8137.5	8176.9	8173.9	8190.6	8155.7	8140.5	8114.7	8050.9
7970.4	7.5°	8028.1	8014.5	8052.4	8081.3	8038.8	8063.1	8028.1	8040.3	8002.3
7867.2	10°	7944.6	7912.7	7947.6	7967.4	7968.9	7944.6	7911.2	7879.3	7865.7
7706.2	12.5°	7759.4	7718.4	7777.6	7804.9	7800.4	7753.3	7715.3	7722.9	7678.9
7423.8	15°	7504.3	7505.8	7548.3	7574.1	7549.8	7539.2	7542.2	7524.0	7486.0
7033.5	17.5°	7114.0	7136.8	7249.2	7311.4	7325.1	7303.8	7293.2	7271.9	7234.0
6411.0	20°	6464.1	6600.8	6801.2	6994.1	7032.0	7025.9	6988.0	6978.9	6957.6
5794.5	22.5°	5893.2	5994.9	6227.2	6527.9	6682.8	6698.0	6652.4	6638.7	6616.0
5243.3	25°	5302.5	5411.8	5621.4	5947.8	6268.2	6333.5	6325.9	6284.9	6260.6
4754.3	27.5°	4804.4	4913.8	5103.6	5398.1	5741.3	5950.9	5970.6	5905.3	5903.8
4318.5	30°	4355.0	4505.3	4649.5	4889.5	5222.0	5536.3	5569.7	5524.2	5528.7
3919.2	32.5°	4002.7	4127.2	4250.2	4411.1	4687.5	5053.5	5184.0	5141.5	5124.8
3586.6	35°	3642.8	3727.8	3853.9	4001.2	4189.4	4552.4	4778.6	4746.7	4730.0
3137.2	37.5°	3232.8	3378.6	3469.7	3635.2	3782.5	4071.0	4389.9	4385.3	4350.4
2754.5	40°	2812.2	2965.6	3103.7	3270.8	3384.7	3613.9	3967.8	3966.2	3970.8
2358.2	42.5°	2431.1	2572.3	2739.3	2921.5	3030.9	3197.9	3577.5	3598.8	3624.6
2031.7	45°	2086.4	2213.9	2368.8	2590.5	2722.6	2818.3	3155.4	3252.6	3251.0
1740.2	47.5°	1776.6	1896.6	2027.2	2242.8	2411.3	2497.9	2777.3	2915.5	2906.3
1427.4	50°	1491.1	1597.4	1734.1	1890.5	2116.7	2192.7	2400.7	2582.9	2569.2
1137.3	52.5°	1199.6	1346.9	1462.3	1605.0	1843.4	1917.8	2078.8	2256.4	2245.8
853.4	55°	935.4	1078.1	1217.8	1340.8	1541.2	1652.1	1767.5	1949.7	1946.7
668.1	57.5°	707.6	864.0	996.1	1113.0	1272.5	1409.1	1501.8	1667.3	1688.5
457.1	60°	523.9	643.8	786.6	917.2	1043.2	1184.4	1246.7	1409.1	1418.2
312.8	62.5°	356.8	488.9	628.6	747.1	841.2	987.0	1043.2	1176.8	1193.5
200.4	65°	247.5	332.5	492.0	577.0	692.4	816.9	873.1	979.4	1012.8
115.4	67.5°	164.0	236.9	384.2	461.6	575.5	660.5	731.9	818.5	854.9
72.9	70°	89.6	174.6	274.8	364.4	463.1	545.1	615.0	684.8	716.7
33.4	72.5°	60.7	116.9	191.3	288.5	373.5	454.0	516.3	567.9	569.4
19.7	75°	30.4	79.0	145.8	223.2	291.5	370.5	426.7	457.1	420.6
12.1	77.5°	18.2	57.7	118.4	179.2	236.9	299.1	331.0	347.7	288.5
9.1	80°	10.6	41.0	92.6	142.7	164.0	220.2	250.5	255.1	192.8
6.1	82.5°	7.6	30.4	72.9	104.8	100.2	154.9	188.3	182.2	123.0
4.6	85°	4.6	21.3	45.6	65.3	60.7	101.7	109.3	112.4	71.4
3.0	87.5°	3.0	12.1	24.3	34.9	28.9	44.0	44.0	53.1	34.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8205.8
8002.3
8035.7
7938.5
7804.9
7640.9
7448.1
7217.3
6909.0
6609.9
6234.8
5900.8
5506.0
5126.3
4707.2
4379.3
3970.8
3610.9
3254.1
2909.4
2581.4
2268.6
1954.3
1679.4
1431.9
1196.6
1005.2
850.3
704.6
555.8
393.3
277.9
180.7
113.9
65.3
30.4
0.0

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