

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: P638279

Luminaire Tested: **IFLD-S-SA3A-830-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638279
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-830-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8409.1 lumens
Efficiency: N/A
Efficacy: 88.7 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



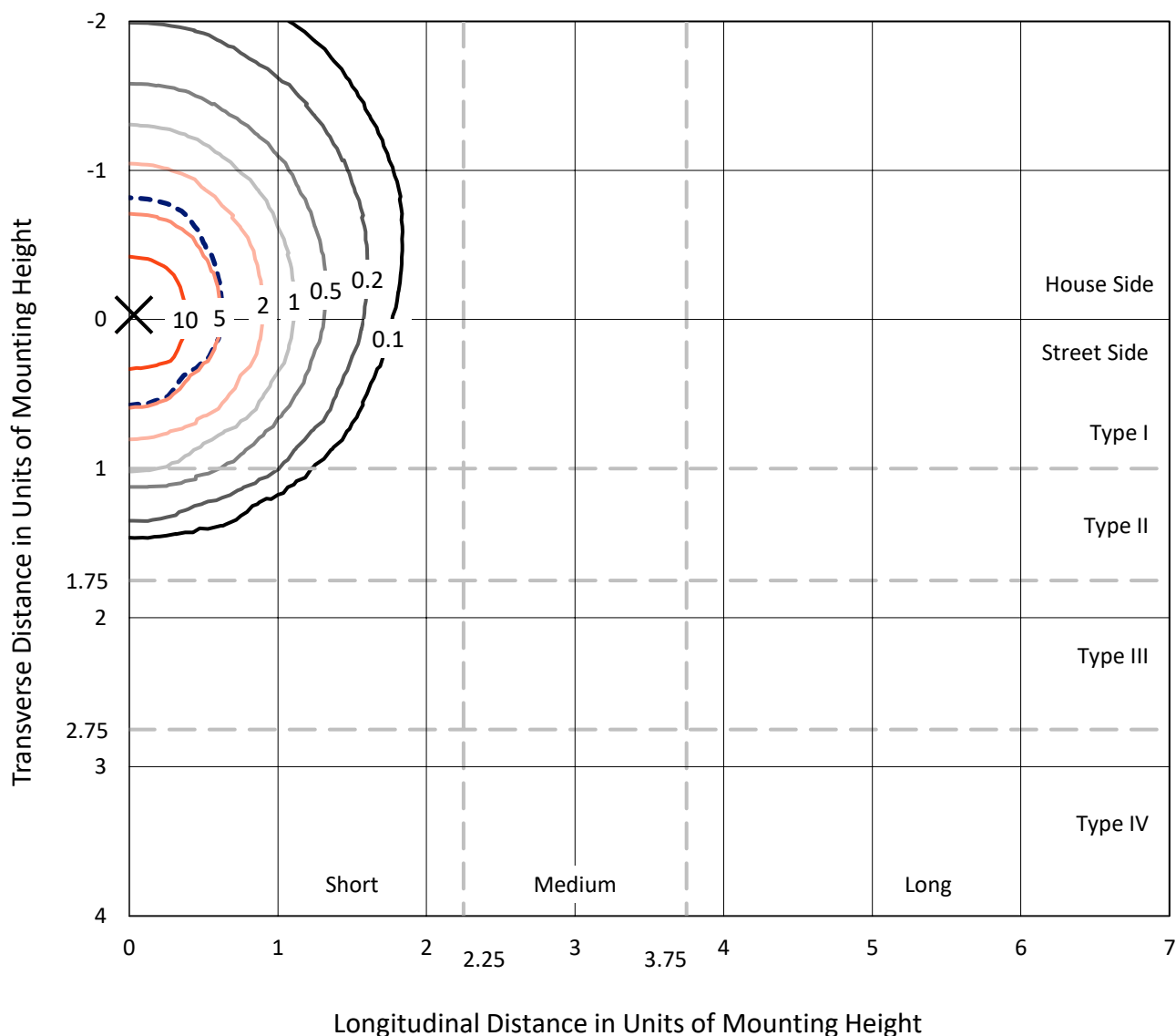
REPORT NUMBER: P638279

CATALOG NUMBER: IFLD-S-SA3A-830-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



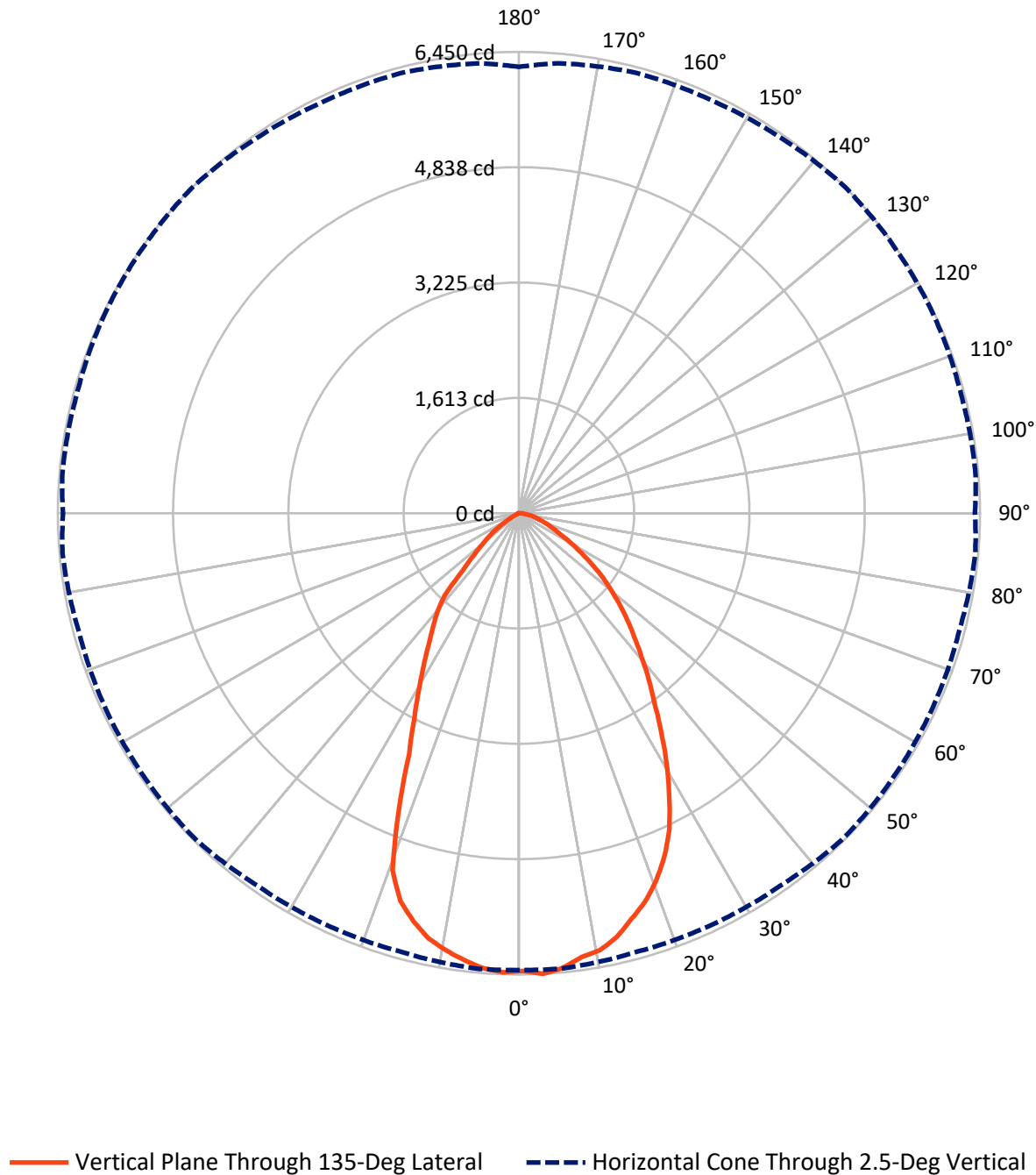
Based on 20 foot mounting height. Maximum calculated value = 16 fc

Type I - Short - N/A

REPORT NUMBER: P638279

CATALOG NUMBER: IFLD-S-SA3A-830-U-77-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P638279

CATALOG NUMBER: IFLD-S-SA3A-830-U-77-VI

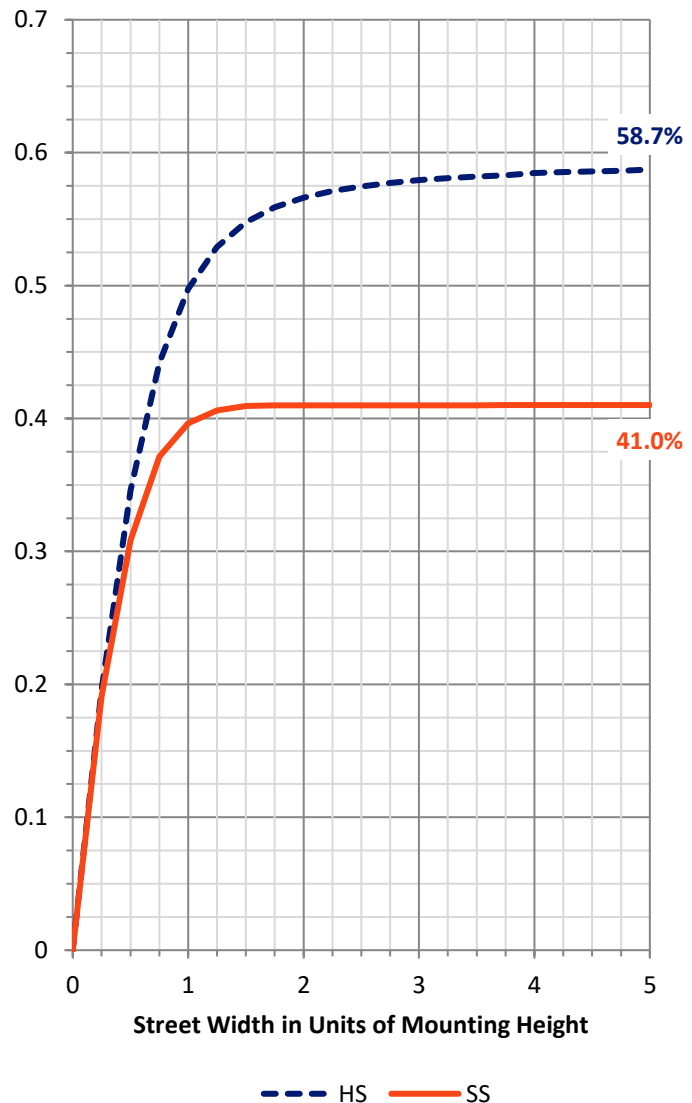
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4980.3	0.0	4980.3
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	3428.8	0.0	3428.8
	% Fixture	40.8	0.0	40.8
Total	Lumens	8409.1	0.0	8409.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.2	7.1
10°-20°	1609.4	19.1
20°-30°	1962.7	23.3
30°-40°	1791.9	21.3
40°-50°	1295.0	15.4
50°-60°	707.1	8.4
60°-70°	292.3	3.5
70°-80°	118.4	1.4
80°-90°	32.2	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°	8409.1	100.0
0°-180°	8409.1	100.0

Coefficient of Utilization



REPORT NUMBER: P638279

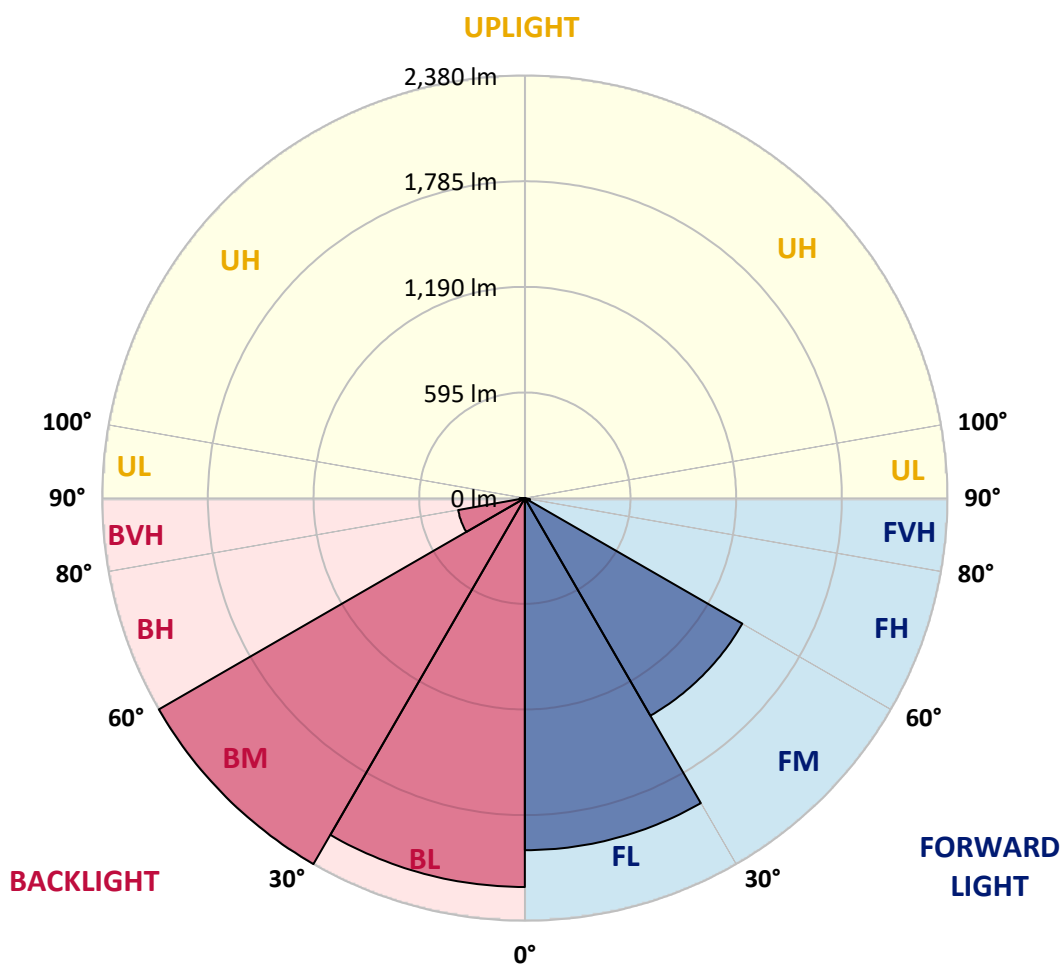
CATALOG NUMBER: IFLD-S-SA3A-830-U-77-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1982.3	23.6			
FM	(30°-60°)	1414.3	16.8			
FH	(60°-80°)	29.6	0.4			G0/660
FVH	(80°-90°)	2.6	0.0			G0/10
BL	(0°-30°)	2189.9	26.0	B3/2500		
BM	(30°-60°)	2379.7	28.3	B2/2500		
BH	(60°-80°)	381.1	4.5	B1/500		G1/500
BVH	(80°-90°)	29.6	0.4			G1/100
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



REPORT NUMBER: P638279

CATALOG NUMBER: IFLD-S-SA3A-830-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6399.3	6399.3	6399.3	6399.3	6399.3	6399.3	6399.3	6399.3	6399.3	6399.3
2.5°	6387.5	6395.8	6350.8	6355.5	6363.8	6424.2	6408.8	6394.6	6374.5	6408.8
5°	6379.2	6383.9	6336.6	6320.0	6327.1	6381.6	6331.8	6331.8	6327.1	6321.2
7.5°	6315.2	6317.6	6280.9	6251.3	6270.2	6295.1	6258.4	6276.2	6250.1	6270.2
10°	6219.3	6203.9	6160.1	6151.8	6173.1	6196.8	6172.0	6188.5	6164.9	6180.2
12.5°	6078.4	6054.7	6019.2	6008.5	6045.2	6077.2	6057.1	6047.6	6016.8	6054.7
15°	5534.9	5517.1	5597.6	5738.5	5865.3	5892.5	5871.2	5880.6	5816.7	5827.4
17.5°	4555.5	4522.4	4608.8	4942.8	5418.8	5669.9	5650.9	5589.3	5494.6	5515.9
20°	4139.9	4130.4	4121.0	4200.3	4533.0	5294.5	5320.5	5164.2	5029.2	4999.6
22.5°	3905.4	3901.9	3892.4	3910.2	3997.8	4486.9	4785.3	4640.8	4550.8	4542.5
25°	3691.1	3685.2	3656.8	3679.3	3679.3	3707.7	4090.2	4177.8	4098.5	4089.0
27.5°	3473.2	3462.5	3457.8	3468.5	3414.0	3222.2	3319.3	3746.8	3705.3	3707.7
30°	3237.6	3234.0	3221.0	3243.5	3075.3	2837.3	2775.7	3356.0	3364.3	3361.9
32.5°	2887.0	2902.4	2961.6	2986.5	2709.4	2512.8	2409.8	2903.6	3073.0	3069.4
35°	2097.2	2097.2	2290.2	2649.0	2374.3	2226.3	2170.6	2461.9	2785.2	2797.0
37.5°	1724.2	1730.1	1768.0	1931.4	2048.6	1996.5	1980.0	2072.3	2415.7	2434.7
40°	1551.3	1551.3	1551.3	1483.8	1480.2	1798.8	1789.3	1759.7	2086.5	2128.0
42.5°	1393.8	1397.3	1399.7	1229.2	1134.4	1554.8	1533.5	1488.5	1791.7	1840.2
45°	1231.5	1237.5	1244.6	1027.9	986.4	1119.1	1297.9	1248.1	1500.4	1563.1
47.5°	752.0	761.4	922.5	871.6	876.3	863.3	1058.7	1050.4	1230.4	1319.2
50°	508.0	511.6	527.0	553.0	752.0	678.5	749.6	869.2	934.3	1069.3
52.5°	426.3	432.2	394.3	358.8	493.8	530.5	523.4	645.4	671.4	838.4
55°	299.6	318.5	300.8	297.2	280.7	412.1	396.7	496.2	512.8	637.1
57.5°	30.8	35.5	61.6	221.4	183.5	233.3	283.0	363.5	380.1	470.1
60°	2.4	2.4	5.9	30.8	133.8	139.7	195.4	223.8	255.8	328.0
62.5°	0.0	1.2	2.4	4.7	21.3	74.6	98.3	117.2	153.9	212.0
65°	0.0	0.0	1.2	3.6	4.7	28.4	37.9	61.6	84.1	131.4
67.5°	0.0	0.0	1.2	2.4	3.6	7.1	13.0	22.5	45.0	74.6
70°	0.0	0.0	1.2	2.4	3.6	5.9	9.5	14.2	20.1	40.3
72.5°	0.0	0.0	1.2	1.2	2.4	5.9	7.1	9.5	14.2	20.1
75°	0.0	0.0	1.2	1.2	3.6	7.1	5.9	7.1	9.5	13.0
77.5°	0.0	0.0	1.2	2.4	3.6	7.1	5.9	7.1	7.1	8.3
80°	0.0	0.0	1.2	2.4	4.7	8.3	7.1	7.1	5.9	5.9
82.5°	0.0	0.0	1.2	3.6	4.7	10.7	10.7	9.5	4.7	3.6
85°	0.0	0.0	2.4	4.7	7.1	11.8	11.8	9.5	3.6	2.4
87.5°	0.0	0.0	2.4	3.6	5.9	8.3	11.8	9.5	3.6	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P638279

CATALOG NUMBER: IFLD-S-SA3A-830-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
6399.3	0°	6399.3	6399.3	6399.3	6399.3	6399.3	6399.3	6399.3	6399.3	6399.3
6379.2	2.5°	6411.2	6404.1	6427.7	6437.2	6450.2	6400.5	6369.7	6370.9	6314.1
6307.0	5°	6344.8	6346.0	6376.8	6374.5	6387.5	6360.2	6348.4	6328.3	6278.5
6215.8	7.5°	6260.8	6250.1	6279.7	6302.2	6269.1	6288.0	6260.8	6270.2	6240.6
6135.2	10°	6195.6	6170.8	6198.0	6213.4	6214.6	6195.6	6169.6	6144.7	6134.1
6009.7	12.5°	6051.2	6019.2	6065.4	6086.7	6083.1	6046.4	6016.8	6022.7	5988.4
5789.5	15°	5852.2	5853.4	5886.6	5906.7	5887.8	5879.5	5881.8	5867.6	5838.0
5485.1	17.5°	5547.9	5565.7	5653.3	5701.8	5712.5	5695.9	5687.6	5671.0	5641.4
4999.6	20°	5041.1	5147.6	5304.0	5454.3	5483.9	5479.2	5449.6	5442.5	5425.9
4518.8	22.5°	4595.8	4675.1	4856.3	5090.8	5211.6	5223.4	5187.9	5177.2	5159.5
4089.0	25°	4135.2	4220.4	4383.8	4638.4	4888.3	4939.2	4933.3	4901.3	4882.4
3707.7	27.5°	3746.8	3832.0	3980.0	4209.8	4477.4	4640.8	4656.2	4605.3	4604.1
3367.8	30°	3396.2	3513.5	3626.0	3813.1	4072.4	4317.5	4343.6	4308.1	4311.6
3056.4	32.5°	3121.5	3218.6	3314.5	3440.0	3655.6	3941.0	4042.8	4009.6	3996.6
2797.0	35°	2840.9	2907.2	3005.5	3120.3	3267.2	3550.2	3726.6	3701.8	3688.7
2446.5	37.5°	2521.1	2634.8	2705.9	2834.9	2949.8	3174.8	3423.5	3419.9	3392.7
2148.1	40°	2193.1	2312.7	2420.5	2550.7	2639.5	2818.4	3094.3	3093.1	3096.6
1839.0	42.5°	1895.9	2006.0	2136.3	2278.4	2363.6	2493.9	2789.9	2806.5	2826.6
1584.4	45°	1627.1	1726.5	1847.3	2020.2	2123.2	2197.8	2460.7	2536.5	2535.3
1357.1	47.5°	1385.5	1479.0	1580.9	1749.0	1880.5	1948.0	2165.9	2273.6	2266.5
1113.1	50°	1162.9	1245.8	1352.3	1474.3	1650.7	1710.0	1872.2	2014.3	2003.6
887.0	52.5°	935.5	1050.4	1140.4	1251.7	1437.6	1495.6	1621.1	1759.7	1751.4
665.5	55°	729.5	840.8	949.7	1045.6	1201.9	1288.4	1378.4	1520.5	1518.1
521.0	57.5°	551.8	673.8	776.8	868.0	992.3	1098.9	1171.2	1300.2	1316.8
356.4	60°	408.5	502.1	613.4	715.2	813.5	923.7	972.2	1098.9	1106.0
243.9	62.5°	278.3	381.3	490.3	582.6	656.0	769.7	813.5	917.7	930.8
156.3	65°	193.0	259.3	383.7	450.0	540.0	637.1	680.9	763.8	789.8
90.0	67.5°	127.9	184.7	299.6	360.0	448.8	515.1	570.8	638.3	666.7
56.8	70°	69.9	136.2	214.3	284.2	361.2	425.1	479.6	534.1	558.9
26.1	72.5°	47.4	91.2	149.2	225.0	291.3	354.1	402.6	442.9	444.1
15.4	75°	23.7	61.6	113.7	174.1	227.4	288.9	332.8	356.4	328.0
9.5	77.5°	14.2	45.0	92.4	139.7	184.7	233.3	258.2	271.2	225.0
7.1	80°	8.3	32.0	72.2	111.3	127.9	171.7	195.4	198.9	150.4
4.7	82.5°	5.9	23.7	56.8	81.7	78.2	120.8	146.8	142.1	95.9
3.6	85°	3.6	16.6	35.5	50.9	47.4	79.3	85.3	87.6	55.7
2.4	87.5°	2.4	9.5	18.9	27.2	22.5	34.3	34.3	41.4	27.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
6399.3
6240.6
6266.7
6190.9
6086.7
5958.8
5808.4
5628.4
5388.0
5154.7
4862.3
4601.7
4293.8
3997.8
3671.0
3415.2
3096.6
2816.0
2537.7
2268.9
2013.1
1769.2
1524.0
1309.7
1116.7
933.1
783.9
663.1
549.5
433.4
306.7
216.7
140.9
88.8
50.9
23.7
0.0

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