

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: P637498

Luminaire Tested: **IFLD-S-SA3C-830-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637498
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-830-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (48) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16233.4 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

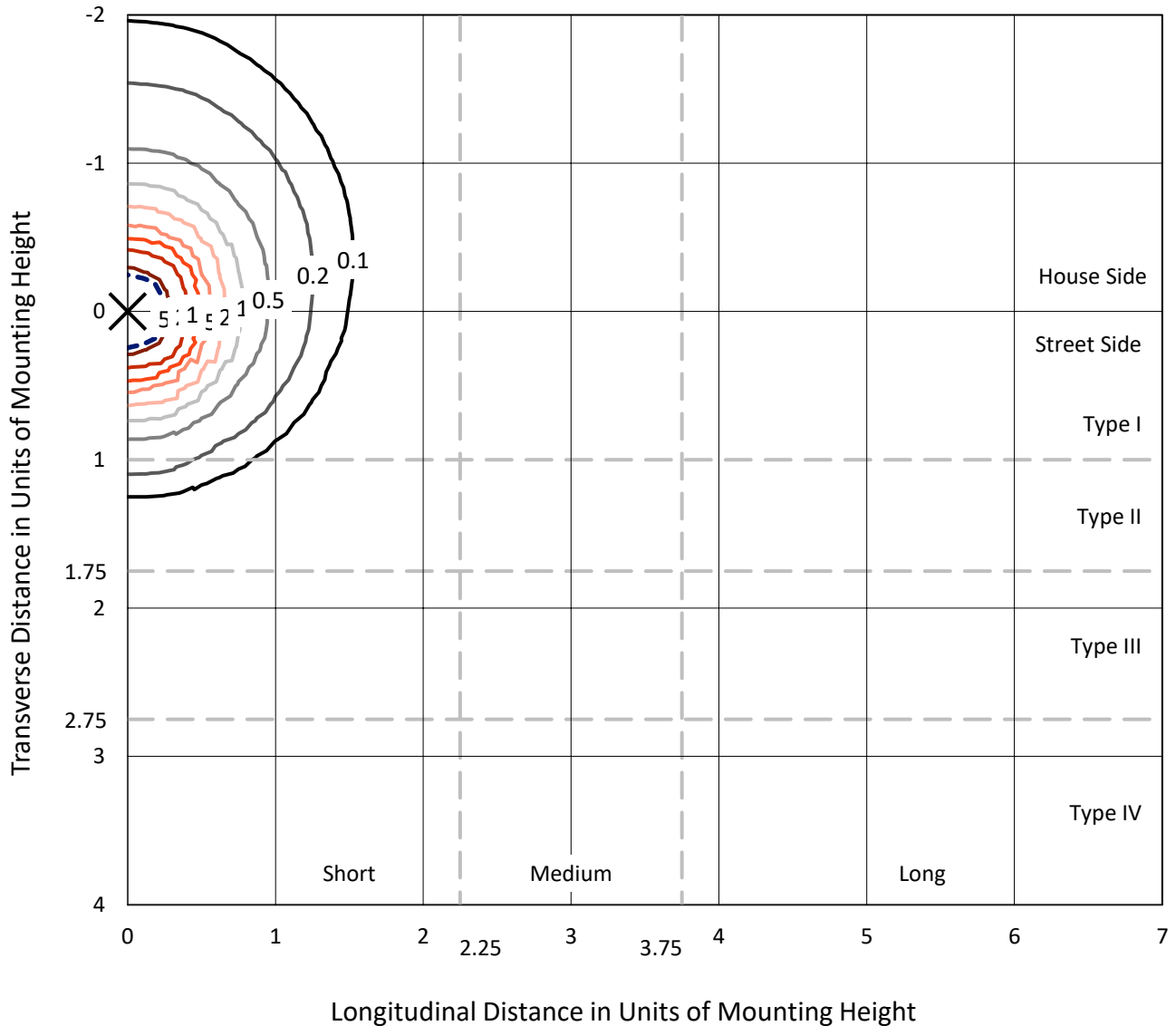
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

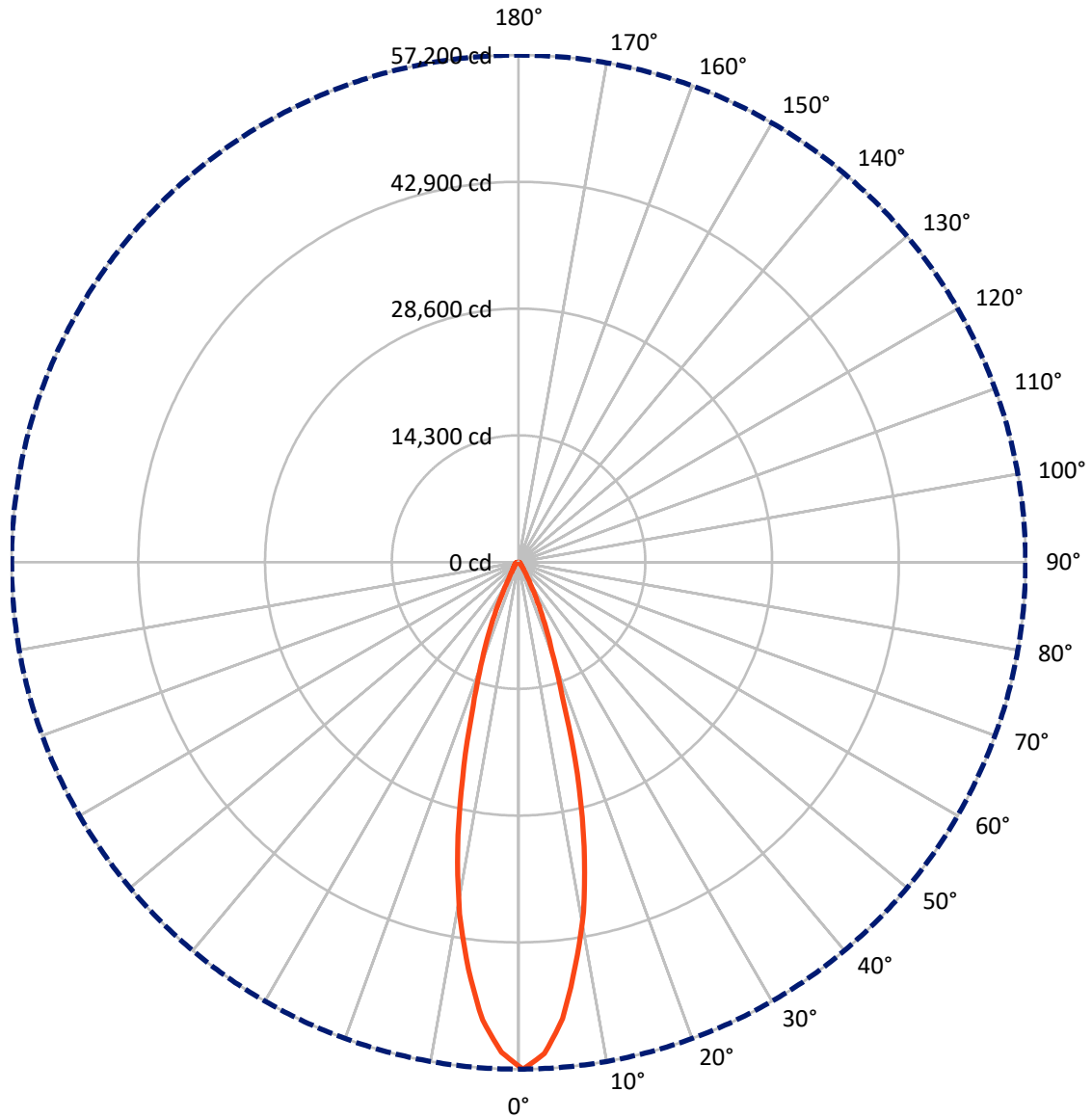
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 143 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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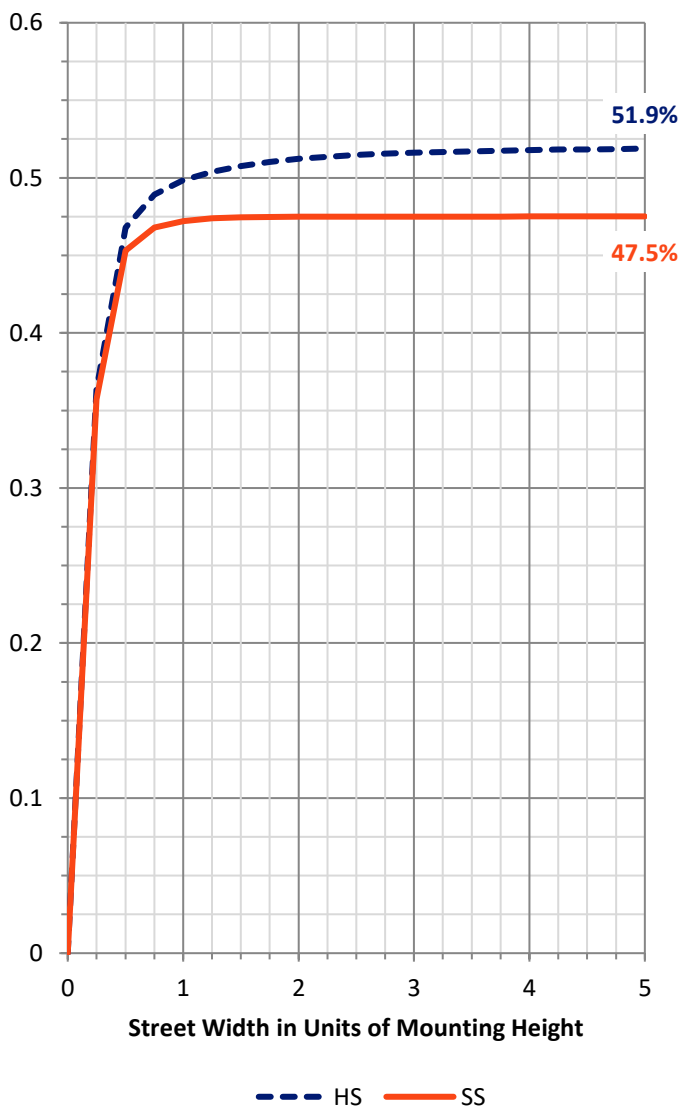
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8559.3	0.0	8559.3
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	7674.0	0.0	7674.0
	% Fixture	47.3	0.0	47.3
Total	Lumens	16233.4	0.0	16233.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4616.5	28.4
10°-20°	6991.7	43.1
20°-30°	2950.5	18.2
30°-40°	769.5	4.7
40°-50°	389.2	2.4
50°-60°	254.4	1.6
60°-70°	152.4	0.9
70°-80°	80.2	0.5
80°-90°	29.0	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°	16233.4	100.0
0°-180°	16233.4	100.0

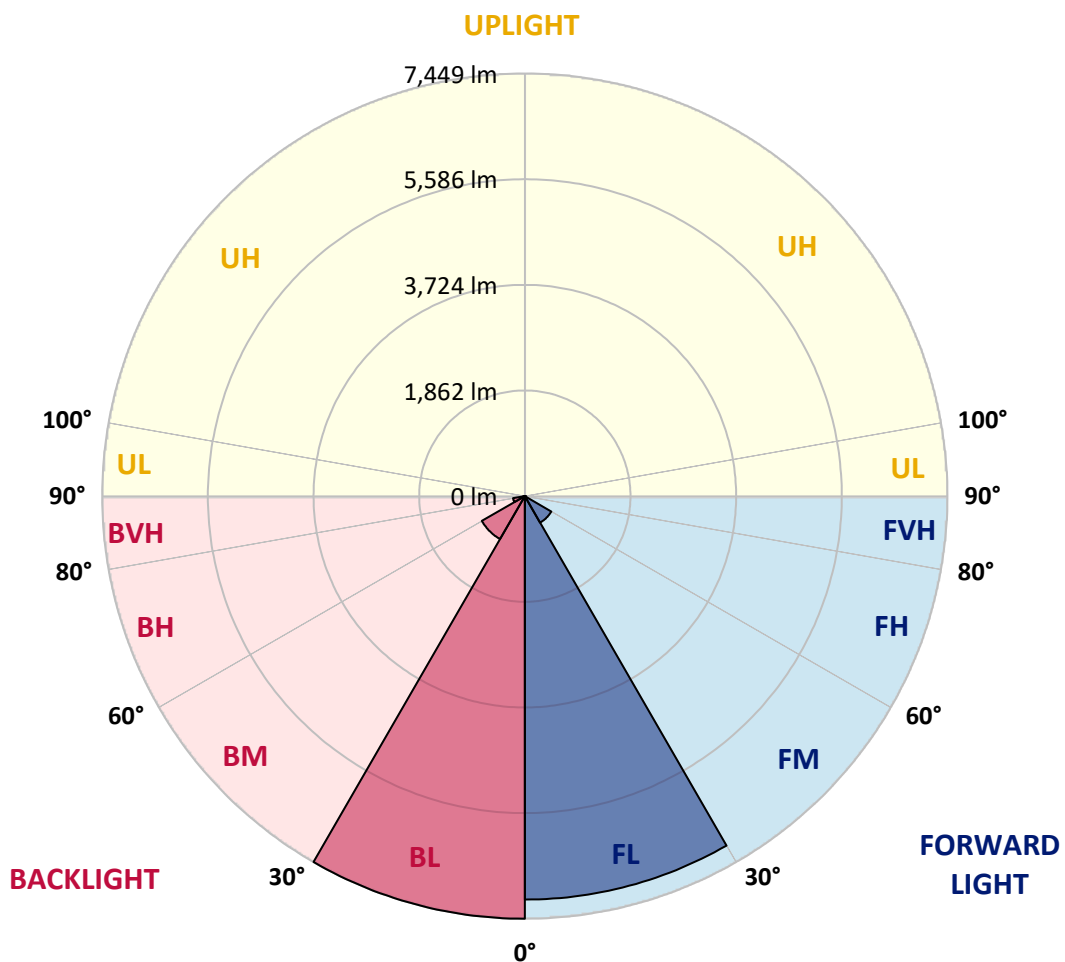


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7110.1	43.8			
FM (30°-60°)	538.5	3.3			
FH (60°-80°)	21.9	0.1			G0/660
FVH (80°-90°)	3.5	0.0			G0/10
BL (0°-30°)	7448.6	45.9	B5		
BM (30°-60°)	874.7	5.4	B1/1000		
BH (60°-80°)	210.7	1.3	B1/500		G0/660
BVH (80°-90°)	25.4	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-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	57199.5	57199.5	57199.5	57199.5	57199.5	57199.5	57199.5	57199.5	57199.5	57199.5
2.5°	55533.3	55564.2	55449.4	55697.3	55504.1	56021.8	55764.8	56165.8	56030.9	56255.2
5°	51741.3	51690.3	51657.5	52042.1	51930.9	52487.0	52131.5	52014.8	52375.8	52310.1
7.5°	46015.2	46150.1	46073.5	46173.8	46230.3	46864.7	47065.3	46908.5	46913.9	47005.1
10°	40145.0	39946.3	39663.7	39851.5	40248.9	40526.0	40414.8	40644.5	40593.5	40810.4
12.5°	32922.2	33078.9	32920.3	32752.6	33447.2	33370.6	33563.9	33689.7	33374.3	34076.1
15°	24798.7	24880.8	25074.0	25061.2	25595.4	25703.0	25677.4	25810.5	25564.4	25681.1
17.5°	15931.5	16208.6	16728.2	17606.9	18594.9	18709.8	18680.6	18571.2	18452.7	18321.5
20°	10701.2	10672.0	10859.8	11116.9	13162.3	13703.7	13687.3	13344.6	12848.7	12753.9
22.5°	7496.3	7551.0	7525.5	7780.7	8203.7	9696.7	9512.6	9164.4	9002.1	8896.4
25°	4931.3	4911.3	5038.9	5115.4	5478.2	5660.5	6305.9	6176.4	5926.7	5954.0
27.5°	3006.2	3031.7	3079.1	3144.7	3401.8	3343.4	3711.7	3760.9	3680.7	3595.0
30°	1844.9	1863.1	1901.4	1948.8	2038.2	1974.3	2076.4	2253.3	2224.1	2163.9
32.5°	1252.4	1254.2	1281.6	1299.8	1288.9	1228.7	1261.5	1429.3	1432.9	1427.4
35°	900.6	900.6	926.1	940.7	909.7	860.5	865.9	969.9	1015.4	1024.5
37.5°	621.7	623.5	667.2	711.0	676.3	663.6	641.7	711.0	783.9	794.8
40°	472.2	470.3	492.2	525.0	528.7	505.0	512.3	556.0	630.8	639.9
42.5°	382.8	384.7	395.6	392.0	393.8	424.8	435.7	455.8	525.0	541.4
45°	322.7	324.5	330.0	311.7	304.4	351.8	366.4	377.4	435.7	455.8
47.5°	266.2	269.8	275.3	255.2	251.6	282.6	308.1	319.0	370.1	392.0
50°	191.4	195.1	215.1	204.2	215.1	222.4	257.0	273.5	308.1	337.3
52.5°	138.6	142.2	147.7	149.5	176.8	180.5	206.0	231.5	247.9	280.7
55°	109.4	113.0	109.4	105.7	129.4	149.5	158.6	185.9	198.7	237.0
57.5°	62.0	65.6	71.1	82.0	85.7	114.9	124.0	147.7	158.6	195.1
60°	10.9	12.8	20.1	49.2	60.2	72.9	93.0	113.0	127.6	153.1
62.5°	1.8	1.8	3.6	10.9	34.6	51.0	67.5	80.2	93.0	116.7
65°	0.0	0.0	1.8	3.6	9.1	29.2	36.5	47.4	63.8	83.9
67.5°	0.0	0.0	1.8	3.6	5.5	10.9	16.4	29.2	36.5	56.5
70°	0.0	0.0	1.8	3.6	5.5	7.3	9.1	12.8	21.9	34.6
72.5°	0.0	0.0	1.8	3.6	5.5	7.3	9.1	10.9	10.9	21.9
75°	0.0	0.0	1.8	3.6	5.5	9.1	10.9	10.9	9.1	9.1
77.5°	0.0	0.0	1.8	3.6	7.3	10.9	12.8	10.9	7.3	7.3
80°	0.0	0.0	3.6	5.5	9.1	12.8	16.4	12.8	7.3	3.6
82.5°	0.0	0.0	3.6	7.3	9.1	14.6	20.1	16.4	7.3	3.6
85°	0.0	0.0	1.8	5.5	10.9	14.6	20.1	14.6	7.3	1.8
87.5°	0.0	0.0	1.8	1.8	3.6	5.5	10.9	9.1	3.6	1.8
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°
57199.5	0°	57199.5	57199.5	57199.5	57199.5	57199.5	57199.5	57199.5	57199.5	57199.5
55830.4	2.5°	56151.3	56442.9	56503.1	56422.9	56539.6	56329.9	56169.5	55753.8	55504.1
52290.1	5°	52627.3	52583.6	52888.0	52988.3	52975.5	52815.1	52590.9	52339.3	52095.0
46828.3	7.5°	47120.0	47176.5	47453.6	47630.4	47541.1	47340.5	47185.6	46996.0	46831.9
40888.8	10°	41262.5	40874.2	41218.8	41218.8	41457.6	40890.6	40943.5	40465.9	40487.8
34063.4	12.5°	34180.1	34320.4	34376.9	34539.2	34260.3	33959.5	33591.2	33518.3	33290.4
25458.7	15°	25825.1	26226.2	25881.6	26470.4	26186.1	25872.5	25816.0	25250.8	25429.5
18465.5	17.5°	18374.4	18817.4	18955.9	19293.2	19034.3	18848.3	18613.2	18441.8	18429.0
12927.1	20°	13029.2	13474.0	13576.1	13980.8	13951.7	13893.3	13694.6	13477.7	13242.5
8799.8	22.5°	8932.9	9295.6	9634.7	10179.8	10170.7	9999.3	9979.3	9673.0	9678.5
5944.9	25°	6006.9	6271.2	6351.4	6909.3	6971.3	6953.1	6849.1	6564.7	6672.3
3631.5	27.5°	3635.1	3866.7	4138.3	4335.2	4521.1	4492.0	4388.0	4229.4	4160.2
2182.2	30°	2240.5	2344.4	2444.7	2681.7	2792.9	2851.2	2802.0	2654.3	2665.3
1436.6	32.5°	1467.5	1555.0	1628.0	1777.5	1835.8	1943.4	1923.3	1892.3	1855.8
1033.7	35°	1070.1	1133.9	1183.1	1252.4	1327.2	1418.3	1432.9	1420.1	1405.6
798.5	37.5°	816.7	882.3	938.9	968.0	1026.4	1097.5	1137.6	1135.7	1124.8
650.8	40°	663.6	712.8	763.9	802.1	842.2	895.1	944.3	949.8	949.8
546.9	42.5°	554.2	596.1	647.2	687.3	716.5	765.7	816.7	820.4	816.7
463.1	45°	474.0	510.4	559.7	607.1	630.8	667.2	716.5	727.4	720.1
397.4	47.5°	412.0	444.8	486.7	537.8	563.3	596.1	641.7	654.5	652.6
342.7	50°	353.7	392.0	433.9	475.8	508.6	539.6	583.4	598.0	592.5
291.7	52.5°	311.7	346.4	382.8	428.4	466.7	494.0	528.7	554.2	546.9
246.1	55°	260.7	302.6	340.9	379.2	426.6	455.8	488.6	519.6	512.3
207.8	57.5°	226.1	260.7	304.4	339.1	386.5	421.1	453.9	486.7	484.9
169.5	60°	189.6	226.1	268.0	304.4	348.2	386.5	419.3	455.8	459.4
127.6	62.5°	149.5	193.2	229.7	271.6	315.4	357.3	386.5	422.9	428.4
96.6	65°	113.0	158.6	198.7	238.8	282.6	328.1	353.7	384.7	390.1
71.1	67.5°	83.9	122.1	169.5	206.0	251.6	295.3	319.0	344.6	353.7
43.8	70°	63.8	93.0	142.2	176.8	224.2	258.9	284.4	306.3	313.6
29.2	72.5°	40.1	72.9	114.9	151.3	193.2	224.2	242.5	255.2	266.2
16.4	75°	27.3	56.5	93.0	129.4	160.4	184.1	200.5	211.5	220.6
7.3	77.5°	16.4	43.8	76.6	107.6	127.6	145.8	162.2	169.5	175.0
5.5	80°	9.1	32.8	63.8	87.5	100.3	113.0	125.8	134.9	138.6
3.6	82.5°	5.5	25.5	51.0	67.5	72.9	85.7	98.4	103.9	103.9
1.8	85°	3.6	18.2	34.6	49.2	52.9	62.0	65.6	69.3	72.9
1.8	87.5°	3.6	10.9	21.9	27.3	29.2	32.8	34.6	38.3	41.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
57199.5
55320.0
51821.6
46275.9
40274.5
33082.6
25250.8
18090.0
13140.4
9572.7
6502.8
4100.0
2617.9
1843.1
1400.1
1119.3
938.9
813.1
720.1
649.0
588.8
545.1
515.9
486.7
461.2
432.1
395.6
357.3
317.2
264.3
218.8
173.2
134.9
102.1
71.1
40.1
0.0

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