

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: P636455

Luminaire Tested: **IFLD-S-SA3D-930-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636455
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-930-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12343.1 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 184.1
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



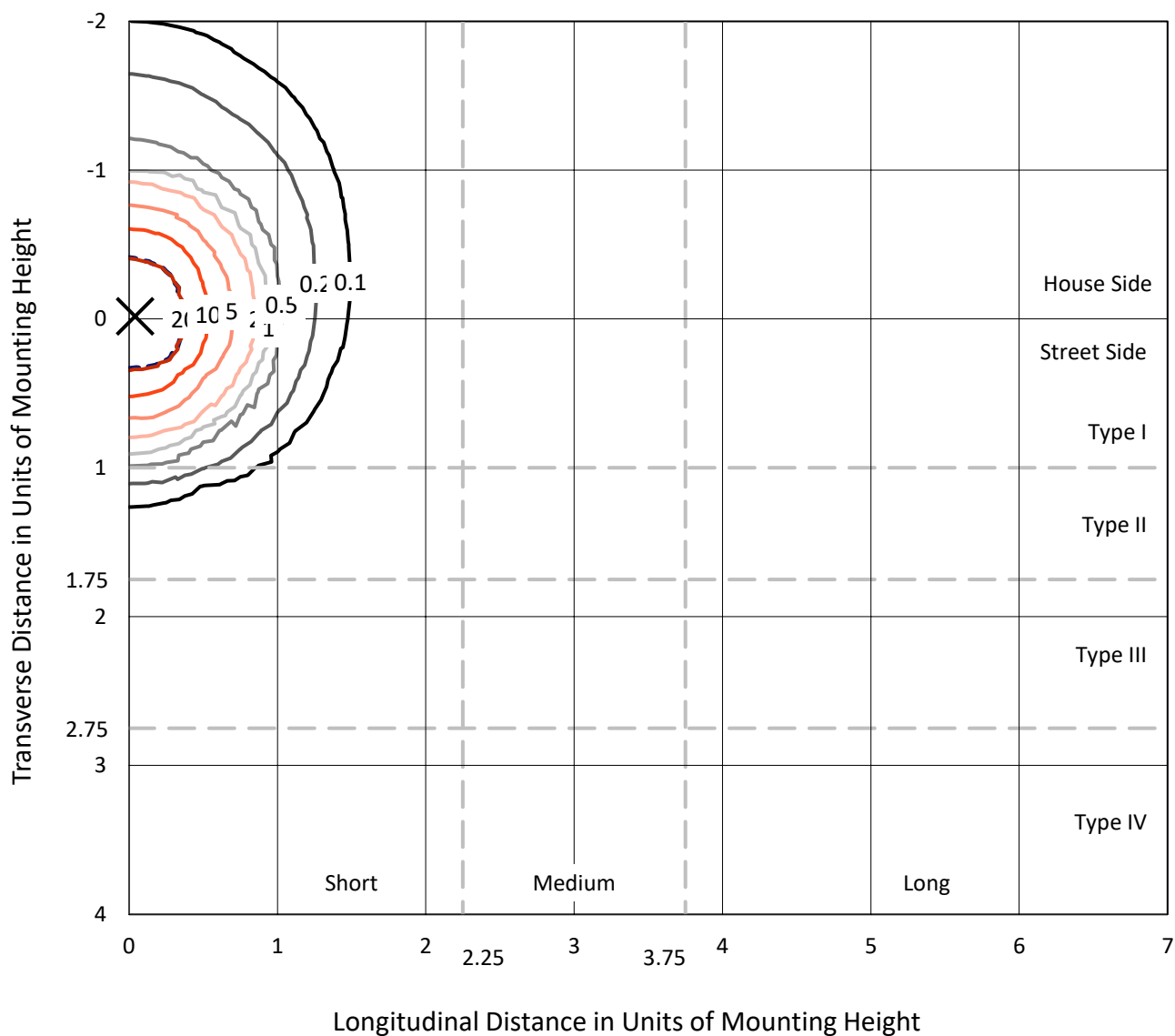
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

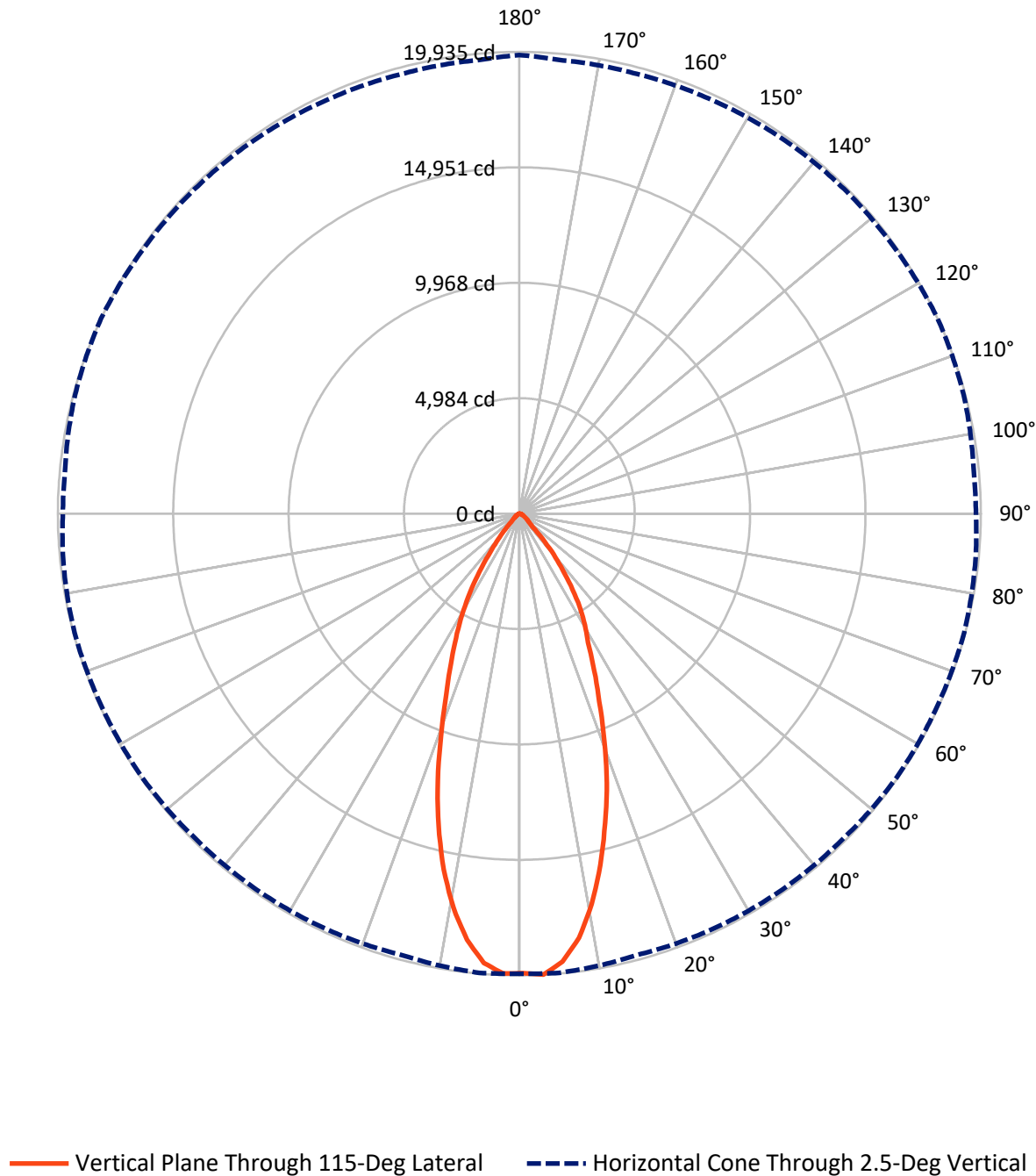


Based on 20 foot mounting height. Maximum calculated value = 49.6 fc

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	6812.0	0.0	6812.0
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	5531.2	0.0	5531.2
	% Fixture	44.8	0.0	44.8
Total	Lumens	12343.1	0.0	12343.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1779.6	14.4
10°-20°	3761.2	30.5
20°-30°	3394.7	27.5
30°-40°	2246.5	18.2
40°-50°	673.0	5.5
50°-60°	269.9	2.2
60°-70°	139.8	1.1
70°-80°	60.7	0.5
80°-90°	17.6	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°	12343.1	100.0
0°-180°	12343.1	100.0

Coefficient of Utilization



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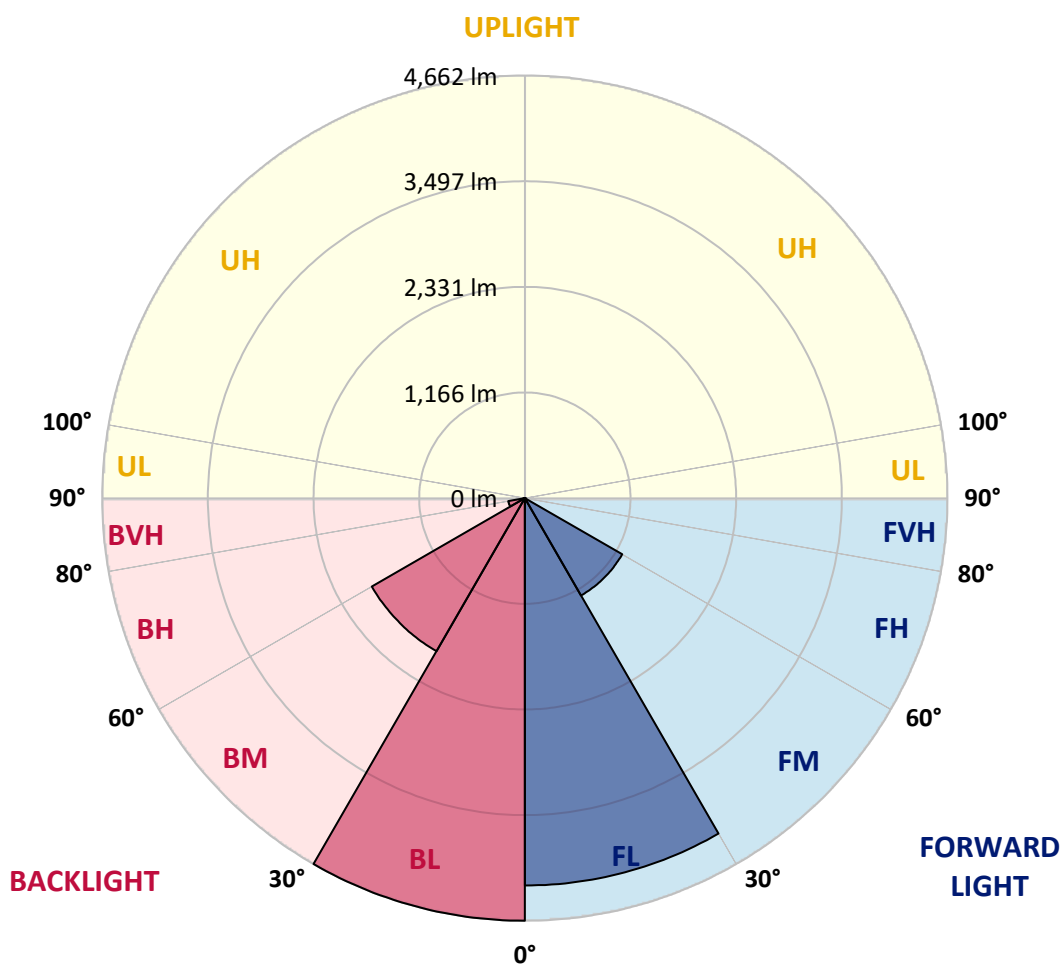
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4273.3	34.6			
FM	(30°-60°)	1240.0	10.0			
FH	(60°-80°)	15.4	0.1			G0/660
FVH	(80°-90°)	2.5	0.0			G0/10
BL	(0°-30°)	4662.3	37.8	B4/5000		
BM	(30°-60°)	1949.4	15.8	B2/2500		
BH	(60°-80°)	185.1	1.5	B1/500		G1/500
BVH	(80°-90°)	15.1	0.1			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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	19841.6	19841.6	19841.6	19841.6	19841.6	19841.6	19841.6	19841.6	19841.6	19841.6
2.5°	19866.9	19902.2	19725.5	19786.1	19811.3	19818.9	19882.0	19871.9	19889.6	19796.2
5°	19604.3	19536.2	19404.9	19407.4	19399.9	19329.2	19473.1	19463.0	19432.7	19321.6
7.5°	18710.7	18809.2	18561.8	18556.7	18551.7	18465.8	18655.2	18539.0	18564.3	18405.3
10°	17403.1	17415.7	17196.1	17175.9	17193.6	17082.5	17302.1	17256.7	17304.6	17138.0
12.5°	15800.1	15870.8	15628.4	15593.1	15663.8	15507.3	15684.0	15706.7	15636.0	15613.3
15°	12392.2	12579.0	13038.4	13740.2	13922.0	13790.7	13932.1	13929.5	13959.8	13788.2
17.5°	9441.2	9458.9	9350.3	9686.0	11629.8	12260.9	12291.2	12051.4	11869.6	11806.5
20°	8242.1	8302.7	8204.2	8232.0	8542.5	10392.9	10463.6	10102.6	9792.1	9766.8
22.5°	7287.9	7325.8	7255.1	7277.8	7292.9	7510.0	8739.4	8421.3	8272.4	8158.8
25°	6480.1	6480.1	6442.2	6449.8	6434.6	6114.0	6745.1	7108.7	7022.8	6982.4
27.5°	5743.0	5753.1	5705.1	5732.9	5548.6	5031.1	4955.4	6028.2	5937.3	5864.1
30°	5043.7	5076.5	5031.1	5046.2	4644.9	4220.8	4003.7	5028.6	5142.2	5122.0
32.5°	3796.7	3945.6	4311.6	4326.8	3781.5	3455.9	3359.9	4036.5	4468.2	4430.3
35°	2352.7	2345.1	2360.3	3087.3	2900.5	2678.4	2713.7	3049.5	3536.7	3519.0
37.5°	1794.8	1792.3	1820.1	1746.9	1900.9	2032.1	2059.9	2059.9	2582.4	2585.0
40°	1360.6	1350.5	1348.0	1231.9	1032.5	1524.7	1479.3	1441.4	1794.8	1832.7
42.5°	868.4	898.7	876.0	749.7	674.0	833.0	929.0	898.7	1108.2	1136.0
45°	484.7	484.7	464.5	393.8	391.3	421.6	530.1	494.8	568.0	605.9
47.5°	234.8	229.7	252.4	310.5	323.1	313.0	378.7	393.8	429.1	464.5
50°	189.3	189.3	179.2	161.6	267.6	257.5	280.2	300.4	320.6	350.9
52.5°	159.0	159.0	146.4	136.3	154.0	196.9	199.4	237.3	234.8	277.7
55°	80.8	83.3	118.6	118.6	103.5	161.6	164.1	191.9	196.9	232.2
57.5°	7.6	10.1	15.1	73.2	80.8	88.4	123.7	141.4	164.1	179.2
60°	2.5	2.5	5.0	10.1	48.0	60.6	78.3	93.4	113.6	148.9
62.5°	0.0	0.0	2.5	5.0	10.1	37.9	42.9	48.0	68.2	93.4
65°	0.0	0.0	2.5	2.5	5.0	12.6	17.7	30.3	42.9	58.1
67.5°	0.0	0.0	2.5	2.5	5.0	7.6	10.1	15.1	20.2	37.9
70°	0.0	0.0	2.5	2.5	5.0	7.6	7.6	10.1	12.6	17.7
72.5°	0.0	0.0	2.5	2.5	5.0	10.1	7.6	7.6	10.1	12.6
75°	0.0	0.0	2.5	2.5	5.0	7.6	7.6	7.6	7.6	7.6
77.5°	0.0	0.0	2.5	2.5	5.0	7.6	7.6	7.6	5.0	5.0
80°	0.0	0.0	2.5	2.5	5.0	7.6	10.1	10.1	5.0	5.0
82.5°	0.0	0.0	2.5	5.0	5.0	12.6	15.1	12.6	5.0	2.5
85°	0.0	0.0	2.5	2.5	7.6	12.6	12.6	7.6	5.0	2.5
87.5°	0.0	0.0	0.0	2.5	2.5	5.0	7.6	7.6	2.5	2.5
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°
19841.6	0°	19841.6	19841.6	19841.6	19841.6	19841.6	19841.6	19841.6	19841.6	19841.6
19720.5	2.5°	19710.4	19864.3	19935.0	19861.8	19826.5	19776.0	19702.8	19652.3	19662.4
19261.0	5°	19218.1	19379.7	19435.2	19372.1	19319.1	19291.3	19278.7	19303.9	19369.6
18337.1	7.5°	18332.0	18435.5	18496.1	18465.8	18392.6	18475.9	18498.7	18483.5	18579.4
17087.5	10°	17092.6	17206.2	17150.6	17163.3	17077.4	17120.3	17107.7	17163.3	17259.2
15595.6	12.5°	15494.6	15603.2	15560.3	15552.7	15461.8	15542.6	15492.1	15552.7	15678.9
13717.5	15°	13815.9	13884.1	13856.3	13813.4	13732.6	13760.4	13916.9	13906.8	13962.3
11768.7	17.5°	11718.2	12046.3	12225.6	12263.4	12197.8	12253.3	12364.4	12336.6	12462.9
9713.8	20°	9696.1	10026.8	10468.6	10827.1	10834.6	10842.2	10912.9	10930.6	11039.1
8161.3	22.5°	8126.0	8360.7	8835.3	9309.9	9638.1	9706.2	9698.7	9723.9	9754.2
6926.9	25°	6909.2	7080.9	7515.1	7843.2	8418.8	8610.7	8666.2	8610.7	8628.3
5838.9	27.5°	5904.5	6167.1	6310.9	6661.8	7224.8	7669.1	7651.4	7618.6	7623.6
5081.6	30°	5079.1	5361.8	5573.8	5679.9	6104.0	6745.1	6810.8	6717.4	6719.9
4412.6	32.5°	4384.8	4473.2	4786.2	4872.1	5144.7	5727.8	5952.5	5881.8	5869.2
3529.1	35°	3632.6	3680.5	3824.4	3993.6	4155.1	4596.9	4968.0	4902.3	4935.2
2595.1	37.5°	2585.0	2781.9	2920.7	3059.5	3175.7	3453.4	3900.2	3839.6	3872.4
1837.7	40°	1822.6	1911.0	2150.8	2211.4	2383.0	2511.8	2890.4	2870.2	2910.6
1141.0	42.5°	1120.8	1183.9	1305.1	1363.2	1479.3	1552.5	1774.6	1799.9	1852.9
631.1	45°	636.1	663.9	747.2	810.3	896.2	926.4	1004.7	1040.0	1070.3
489.7	47.5°	484.7	515.0	570.5	626.0	696.7	722.0	777.5	830.5	858.3
378.7	50°	396.3	424.1	482.2	527.6	598.3	621.0	666.4	724.5	759.8
287.8	52.5°	300.4	340.8	411.5	459.4	532.6	560.4	603.3	661.4	694.2
237.3	55°	247.4	277.7	340.8	406.4	474.6	512.4	540.2	610.9	646.2
194.4	57.5°	212.0	234.8	275.2	353.4	411.5	467.0	489.7	555.4	590.7
154.0	60°	161.6	196.9	232.2	292.8	358.5	416.5	441.8	499.8	527.6
111.1	62.5°	133.8	156.5	202.0	234.8	308.0	368.6	393.8	446.8	467.0
73.2	65°	93.4	126.2	169.1	189.3	257.5	315.5	350.9	391.3	411.5
42.9	67.5°	55.5	93.4	133.8	161.6	209.5	267.6	305.4	343.3	361.0
25.2	70°	35.3	73.2	106.0	136.3	164.1	219.6	265.1	297.9	290.3
15.1	72.5°	20.2	45.4	78.3	111.1	136.3	184.3	227.2	252.4	179.2
10.1	75°	12.6	32.8	65.6	90.9	111.1	146.4	186.8	191.9	111.1
5.0	77.5°	10.1	25.2	50.5	73.2	75.7	108.5	131.3	148.9	83.3
5.0	80°	5.0	20.2	42.9	60.6	48.0	75.7	101.0	116.1	65.6
2.5	82.5°	5.0	12.6	32.8	42.9	35.3	58.1	73.2	83.3	55.5
2.5	85°	2.5	10.1	17.7	25.2	25.2	37.9	32.8	40.4	35.3
2.5	87.5°	2.5	5.0	10.1	12.6	10.1	15.1	17.7	17.7	15.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
19841.6
19798.7
19505.9
18675.4
17297.1
15701.6
13975.0
12442.7
11016.4
9698.7
8600.6
7631.2
6722.4
5899.5
4965.5
3900.2
2925.8
1913.5
1067.8
870.9
775.0
716.9
656.3
605.9
532.6
469.5
411.5
358.5
267.6
159.0
103.5
83.3
68.2
60.6
35.3
12.6
0.0

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