

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: P636424

Luminaire Tested: **IFLD-S-SA3B-927-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636424
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-927-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8914.3 lumens
Efficiency: N/A
Efficacy: 72.8 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): 122.4
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



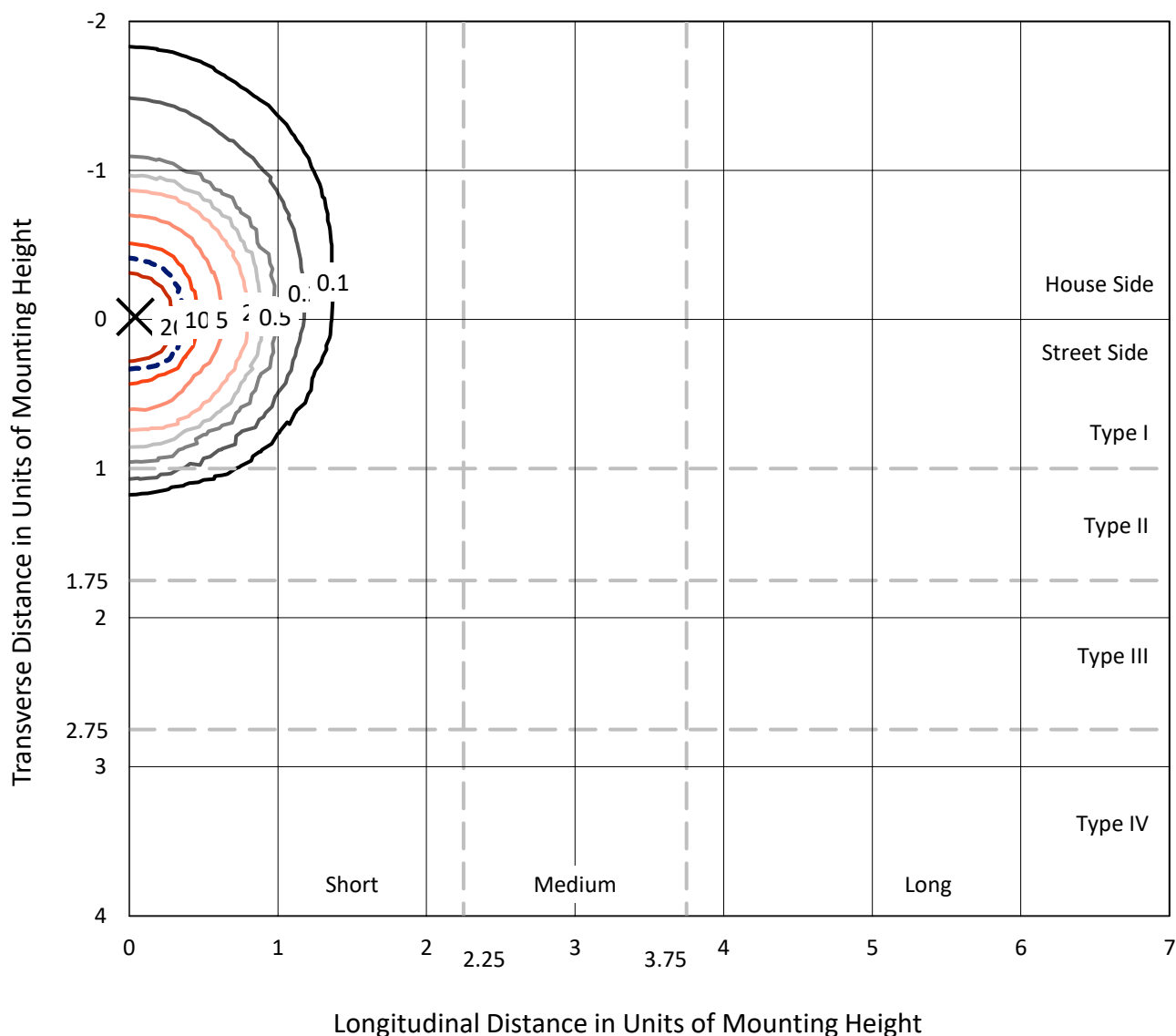
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



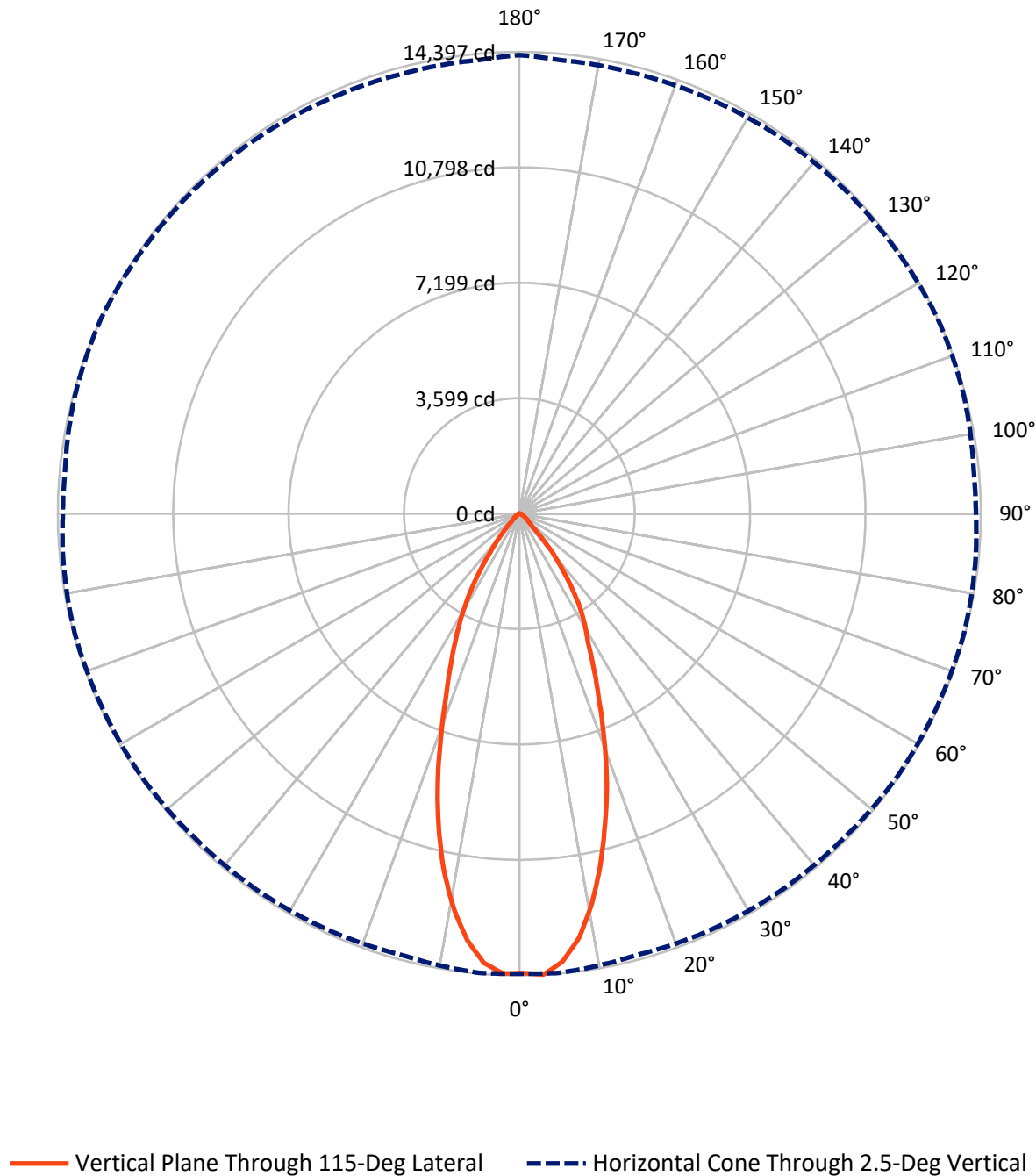
Based on 20 foot mounting height. Maximum calculated value = 35.8 fc

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	4919.6	0.0	4919.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	3994.6	0.0	3994.6
	% Fixture	44.8	0.0	44.8
Total	Lumens	8914.3	0.0	8914.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1285.3	14.4
10°-20°	2716.4	30.5
20°-30°	2451.7	27.5
30°-40°	1622.4	18.2
40°-50°	486.0	5.5
50°-60°	195.0	2.2
60°-70°	101.0	1.1
70°-80°	43.8	0.5
80°-90°	12.7	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°	8914.3	100.0
0°-180°	8914.3	100.0

Coefficient of Utilization



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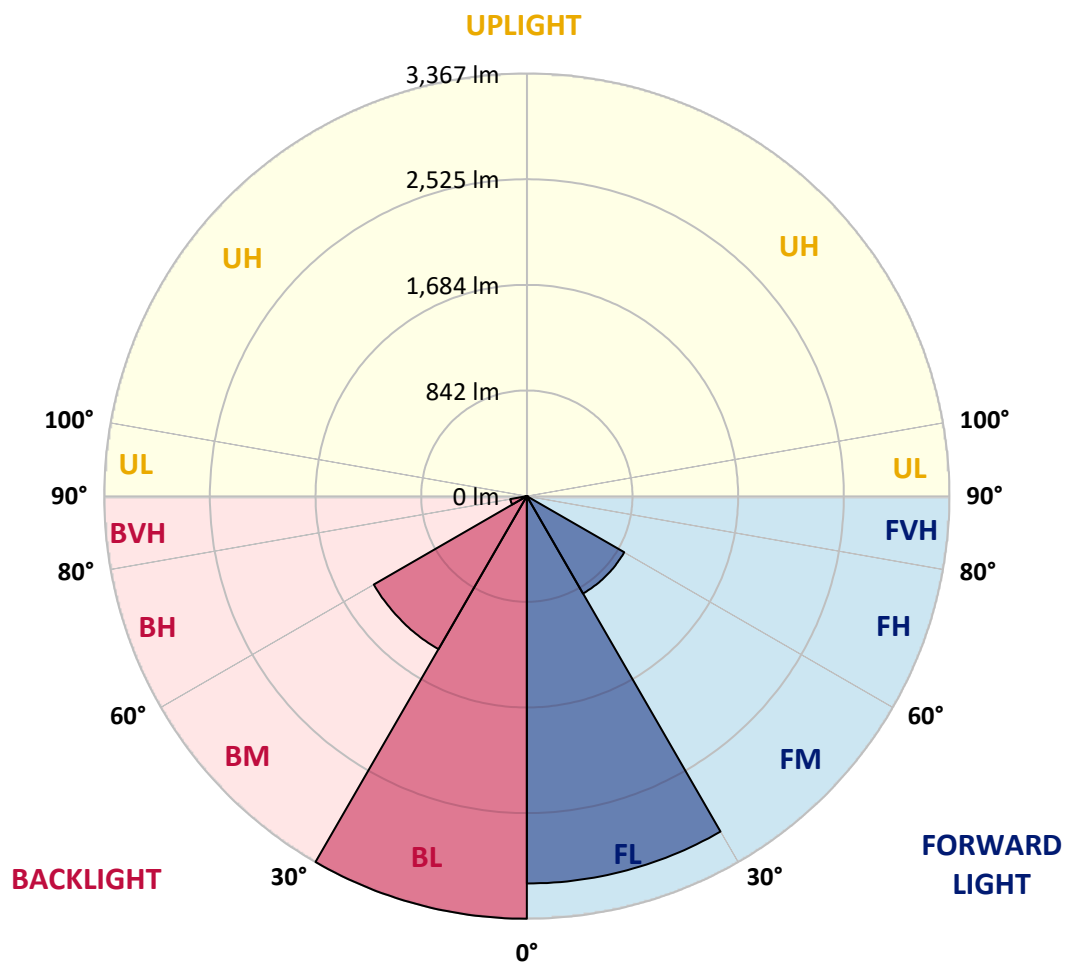
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3086.2	34.6			
FM	(30°-60°)	895.5	10.0			
FH	(60°-80°)	11.1	0.1			G0/660
FVH	(80°-90°)	1.8	0.0			G0/10
BL	(0°-30°)	3367.1	37.8	B4/5000		
BM	(30°-60°)	1407.9	15.8	B2/2500		
BH	(60°-80°)	133.7	1.5	B1/500		G1/500
BVH	(80°-90°)	10.9	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°	14329.7	14329.7	14329.7	14329.7	14329.7	14329.7	14329.7	14329.7	14329.7	14329.7
2.5°	14347.9	14373.5	14245.8	14289.6	14307.8	14313.3	14358.9	14351.6	14364.3	14296.9
5°	14158.3	14109.1	14014.3	14016.1	14010.7	13959.6	14063.5	14056.2	14034.4	13954.1
7.5°	13512.9	13584.0	13405.4	13401.7	13398.1	13336.1	13472.8	13389.0	13407.2	13292.3
10°	12568.6	12577.7	12419.1	12404.5	12417.2	12337.0	12495.6	12462.8	12497.5	12377.1
12.5°	11410.9	11461.9	11286.9	11261.4	11312.4	11199.4	11327.0	11343.4	11292.4	11276.0
15°	8949.7	9084.6	9416.4	9923.2	10054.5	9959.7	10061.8	10060.0	10081.8	9957.9
17.5°	6818.5	6831.2	6752.8	6995.3	8399.1	8854.9	8876.8	8703.6	8572.3	8526.7
20°	5952.5	5996.2	5925.1	5945.2	6169.4	7505.8	7556.8	7296.1	7071.9	7053.6
22.5°	5263.3	5290.7	5239.6	5256.0	5267.0	5423.8	6311.6	6081.9	5974.4	5892.3
25°	4679.9	4679.9	4652.6	4658.1	4647.1	4415.6	4871.4	5133.9	5071.9	5042.7
27.5°	4147.6	4154.9	4120.2	4140.3	4007.2	3633.5	3578.8	4353.6	4288.0	4235.1
30°	3642.6	3666.3	3633.5	3644.4	3354.5	3048.3	2891.5	3631.6	3713.7	3699.1
32.5°	2742.0	2849.5	3113.9	3124.8	2731.0	2495.8	2426.6	2915.2	3226.9	3199.6
35°	1699.1	1693.7	1704.6	2229.7	2094.8	1934.3	1959.9	2202.3	2554.2	2541.4
37.5°	1296.2	1294.4	1314.5	1261.6	1372.8	1467.6	1487.7	1487.7	1865.0	1866.9
40°	982.7	975.4	973.5	889.7	745.7	1101.2	1068.3	1041.0	1296.2	1323.6
42.5°	627.2	649.0	632.6	541.5	486.8	601.6	670.9	649.0	800.3	820.4
45°	350.0	350.0	335.5	284.4	282.6	304.5	382.9	357.3	410.2	437.5
47.5°	169.5	165.9	182.3	224.2	233.4	226.1	273.5	284.4	309.9	335.5
50°	136.7	136.7	129.4	116.7	193.3	186.0	202.4	217.0	231.5	253.4
52.5°	114.9	114.9	105.7	98.4	111.2	142.2	144.0	171.4	169.5	200.5
55°	58.3	60.2	85.7	85.7	74.7	116.7	118.5	138.6	142.2	167.7
57.5°	5.5	7.3	10.9	52.9	58.3	63.8	89.3	102.1	118.5	129.4
60°	1.8	1.8	3.6	7.3	34.6	43.8	56.5	67.5	82.0	107.6
62.5°	0.0	0.0	1.8	3.6	7.3	27.3	31.0	34.6	49.2	67.5
65°	0.0	0.0	1.8	1.8	3.6	9.1	12.8	21.9	31.0	41.9
67.5°	0.0	0.0	1.8	1.8	3.6	5.5	7.3	10.9	14.6	27.3
70°	0.0	0.0	1.8	1.8	3.6	5.5	5.5	7.3	9.1	12.8
72.5°	0.0	0.0	1.8	1.8	3.6	7.3	5.5	5.5	7.3	9.1
75°	0.0	0.0	1.8	1.8	3.6	5.5	5.5	5.5	5.5	5.5
77.5°	0.0	0.0	1.8	1.8	3.6	5.5	5.5	5.5	3.6	3.6
80°	0.0	0.0	1.8	1.8	3.6	5.5	7.3	7.3	3.6	3.6
82.5°	0.0	0.0	1.8	3.6	3.6	9.1	10.9	9.1	3.6	1.8
85°	0.0	0.0	1.8	1.8	5.5	9.1	9.1	5.5	3.6	1.8
87.5°	0.0	0.0	0.0	1.8	1.8	3.6	5.5	5.5	1.8	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°
14329.7	0°	14329.7	14329.7	14329.7	14329.7	14329.7	14329.7	14329.7	14329.7	14329.7
14242.2	2.5°	14234.9	14346.1	14397.2	14344.3	14318.8	14282.3	14229.4	14193.0	14200.3
13910.4	5°	13879.4	13996.1	14036.2	13990.6	13952.3	13932.3	13923.1	13941.4	13988.8
13243.1	7.5°	13239.5	13314.2	13358.0	13336.1	13283.2	13343.4	13359.8	13348.9	13418.1
12340.7	10°	12344.3	12426.4	12386.3	12395.4	12333.4	12364.4	12355.3	12395.4	12464.7
11263.2	12.5°	11190.3	11268.7	11237.7	11232.2	11166.6	11224.9	11188.5	11232.2	11323.4
9906.8	15°	9977.9	10027.1	10007.1	9976.1	9917.8	9937.8	10050.8	10043.6	10083.7
8499.4	17.5°	8462.9	8699.9	8829.4	8856.7	8809.3	8849.4	8929.6	8909.6	9000.7
7015.4	20°	7002.6	7241.4	7560.5	7819.3	7824.8	7830.3	7881.3	7894.1	7972.5
5894.1	22.5°	5868.6	6038.2	6380.9	6723.7	6960.7	7009.9	7004.4	7022.6	7044.5
5002.6	25°	4989.9	5113.8	5427.4	5664.4	6080.1	6218.7	6258.8	6218.7	6231.4
4216.9	27.5°	4264.3	4453.9	4557.8	4811.2	5217.8	5538.6	5525.9	5502.2	5505.8
3669.9	30°	3668.1	3872.3	4025.4	4102.0	4408.3	4871.4	4918.8	4851.3	4853.1
3186.8	32.5°	3166.8	3230.6	3456.6	3518.6	3715.5	4136.7	4298.9	4247.9	4238.7
2548.7	35°	2623.5	2658.1	2762.0	2884.2	3000.9	3319.9	3587.9	3540.5	3564.2
1874.2	37.5°	1866.9	2009.1	2109.3	2209.6	2293.5	2494.0	2816.7	2773.0	2796.7
1327.2	40°	1316.3	1380.1	1553.3	1597.1	1721.0	1814.0	2087.5	2072.9	2102.1
824.0	42.5°	809.5	855.0	942.6	984.5	1068.3	1121.2	1281.7	1299.9	1338.2
455.8	45°	459.4	479.5	539.6	585.2	647.2	669.1	725.6	751.1	773.0
353.7	47.5°	350.0	371.9	412.0	452.1	503.2	521.4	561.5	599.8	619.9
273.5	50°	286.2	306.3	348.2	381.0	432.1	448.5	481.3	523.2	548.8
207.8	52.5°	217.0	246.1	297.2	331.8	384.7	404.7	435.7	477.7	501.4
171.4	55°	178.7	200.5	246.1	293.5	342.7	370.1	390.1	441.2	466.7
140.4	57.5°	153.1	169.5	198.7	255.2	297.2	337.3	353.7	401.1	426.6
111.2	60°	116.7	142.2	167.7	211.5	258.9	300.8	319.0	361.0	381.0
80.2	62.5°	96.6	113.0	145.8	169.5	222.4	266.2	284.4	322.7	337.3
52.9	65°	67.5	91.2	122.1	136.7	186.0	227.9	253.4	282.6	297.2
31.0	67.5°	40.1	67.5	96.6	116.7	151.3	193.3	220.6	247.9	260.7
18.2	70°	25.5	52.9	76.6	98.4	118.5	158.6	191.4	215.1	209.7
10.9	72.5°	14.6	32.8	56.5	80.2	98.4	133.1	164.1	182.3	129.4
7.3	75°	9.1	23.7	47.4	65.6	80.2	105.7	134.9	138.6	80.2
3.6	77.5°	7.3	18.2	36.5	52.9	54.7	78.4	94.8	107.6	60.2
3.6	80°	3.6	14.6	31.0	43.8	34.6	54.7	72.9	83.9	47.4
1.8	82.5°	3.6	9.1	23.7	31.0	25.5	41.9	52.9	60.2	40.1
1.8	85°	1.8	7.3	12.8	18.2	18.2	27.3	23.7	29.2	25.5
1.8	87.5°	1.8	3.6	7.3	9.1	7.3	10.9	12.8	12.8	10.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
14329.7
14298.7
14087.2
13487.4
12492.0
11339.8
10092.8
8986.1
7956.1
7004.4
6211.4
5511.3
4855.0
4260.6
3586.1
2816.7
2113.0
1381.9
771.2
629.0
559.7
517.8
474.0
437.5
384.7
339.1
297.2
258.9
193.3
114.9
74.7
60.2
49.2
43.8
25.5
9.1
0.0

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