

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: P636492

Luminaire Tested: **IFLD-M-SA4B-935-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636492
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-935-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12549.1 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 166.1
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



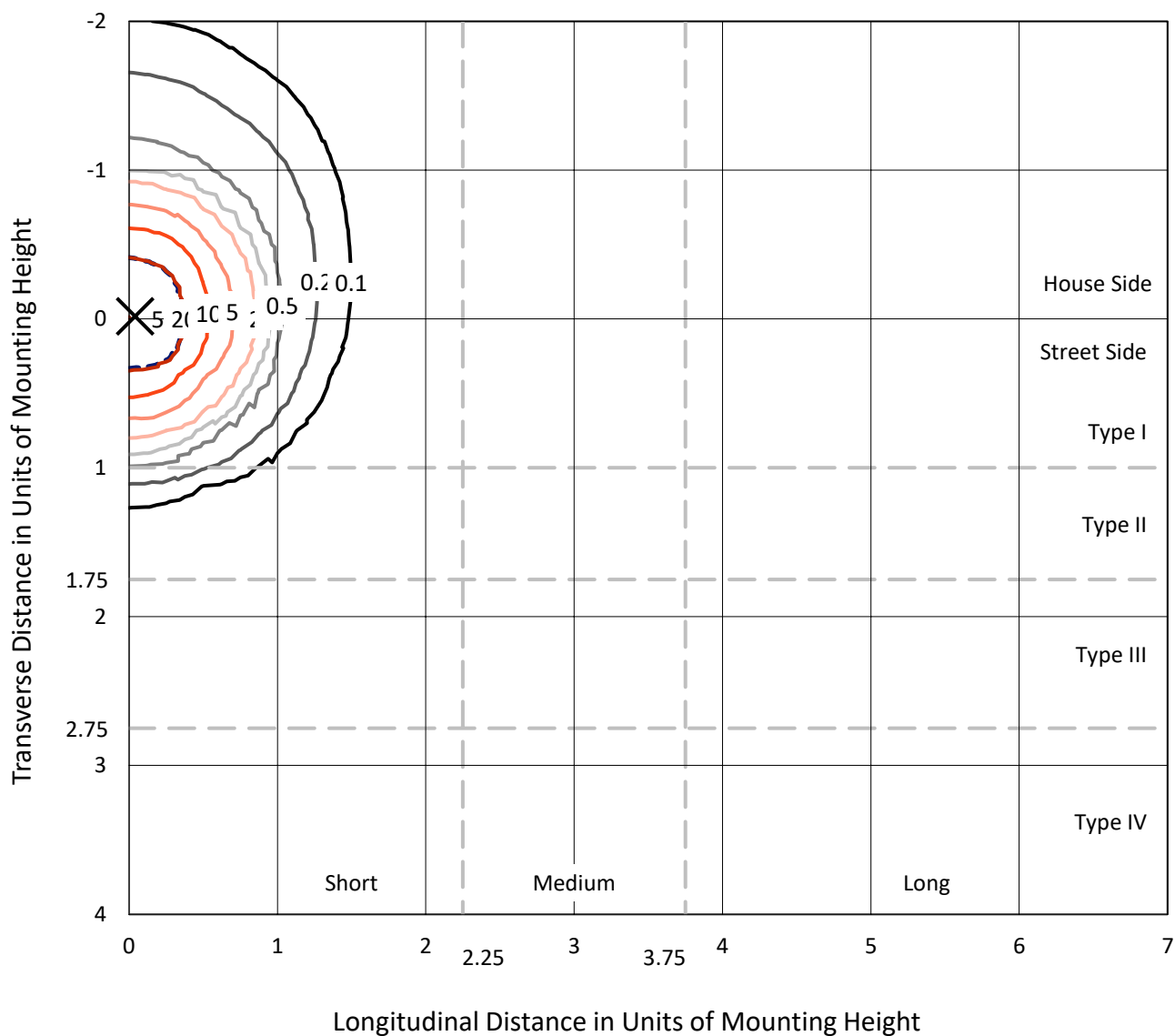
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

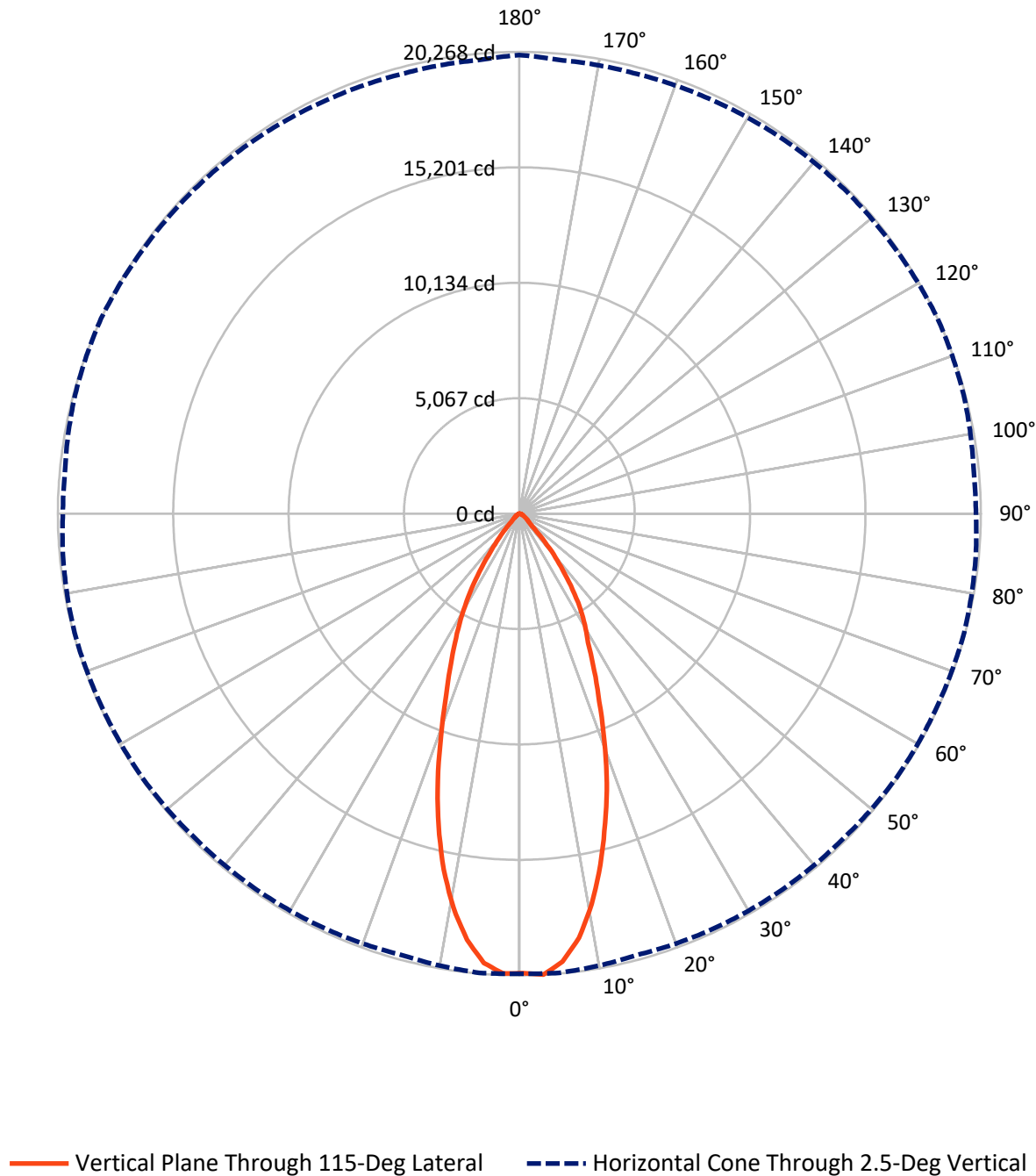


Based on 20 foot mounting height. Maximum calculated value = 50.4 fc

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	6925.7	0.0	6925.7
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	5623.5	0.0	5623.5
	% Fixture	44.8	0.0	44.8
Total	Lumens	12549.1	0.0	12549.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1809.3	14.4
10°-20°	3824.0	30.5
20°-30°	3451.4	27.5
30°-40°	2284.0	18.2
40°-50°	684.2	5.5
50°-60°	274.5	2.2
60°-70°	142.1	1.1
70°-80°	61.7	0.5
80°-90°	18.0	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°	12549.1	100.0
0°-180°	12549.1	100.0

Coefficient of Utilization



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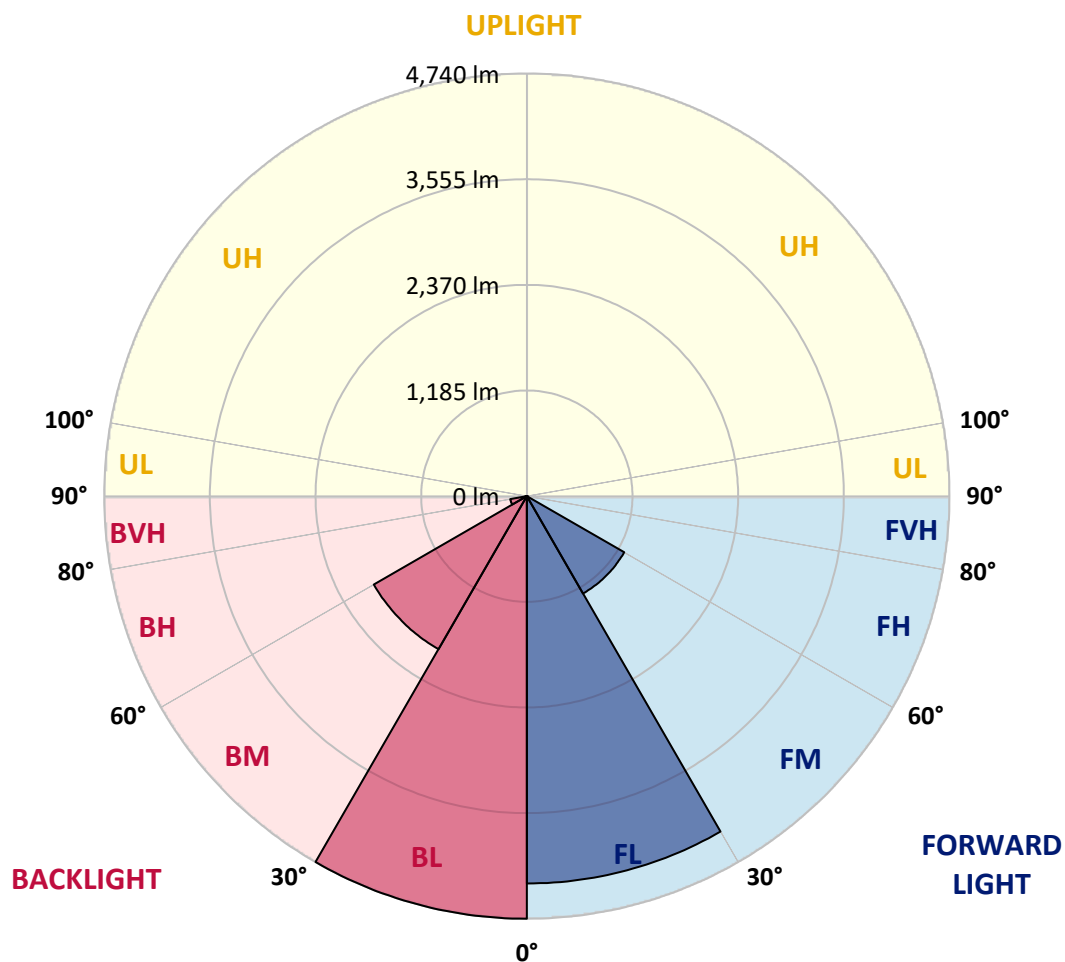
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4344.6	34.6			
FM	(30°-60°)	1260.7	10.0			
FH	(60°-80°)	15.6	0.1			G0/660
FVH	(80°-90°)	2.6	0.0			G0/10
BL	(0°-30°)	4740.1	37.8	B4/5000		
BM	(30°-60°)	1982.0	15.8	B2/2500		
BH	(60°-80°)	188.2	1.5	B1/500		G1/500
BVH	(80°-90°)	15.4	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°	20172.7	20172.7	20172.7	20172.7	20172.7	20172.7	20172.7	20172.7	20172.7	20172.7
2.5°	20198.4	20234.3	20054.7	20116.3	20141.9	20149.6	20213.8	20203.5	20221.5	20126.5
5°	19931.5	19862.2	19728.7	19731.3	19723.6	19651.7	19798.0	19787.7	19756.9	19644.0
7.5°	19022.9	19123.0	18871.5	18866.4	18861.2	18774.0	18966.5	18848.4	18874.1	18712.4
10°	17693.5	17706.3	17483.0	17462.5	17480.5	17367.5	17590.8	17544.6	17593.4	17424.0
12.5°	16063.7	16135.6	15889.2	15853.3	15925.2	15766.0	15945.7	15968.8	15896.9	15873.8
15°	12599.0	12788.9	13256.0	13969.5	14154.3	14020.8	14164.5	14162.0	14192.8	14018.2
17.5°	9598.7	9616.7	9506.3	9847.7	11823.9	12465.5	12496.3	12252.5	12067.7	12003.5
20°	8379.6	8441.2	8341.1	8369.4	8685.0	10566.3	10638.2	10271.1	9955.5	9929.8
22.5°	7409.5	7448.0	7376.1	7399.2	7414.6	7635.3	8885.2	8561.9	8410.4	8294.9
25°	6588.2	6588.2	6549.7	6557.4	6542.0	6216.1	6857.7	7227.3	7140.0	7098.9
27.5°	5838.8	5849.1	5800.3	5828.5	5641.2	5115.0	5038.0	6128.8	6036.4	5962.0
30°	5127.9	5161.2	5115.0	5130.4	4722.4	4291.2	4070.5	5112.5	5228.0	5207.4
32.5°	3860.0	4011.4	4383.6	4399.0	3844.6	3513.5	3416.0	4103.8	4542.7	4504.2
35°	2392.0	2384.3	2399.7	3138.8	2948.9	2723.1	2759.0	3100.3	3595.7	3577.7
37.5°	1824.8	1822.2	1850.4	1776.0	1932.6	2066.0	2094.3	2094.3	2625.5	2628.1
40°	1383.3	1373.1	1370.5	1252.5	1049.7	1550.2	1504.0	1465.5	1824.8	1863.3
42.5°	882.9	913.7	890.6	762.3	685.3	846.9	944.5	913.7	1126.7	1154.9
45°	492.8	492.8	472.2	400.4	397.8	428.6	539.0	503.0	577.5	616.0
47.5°	238.7	233.6	256.7	315.7	328.5	318.2	385.0	400.4	436.3	472.2
50°	192.5	192.5	182.2	164.3	272.0	261.8	284.9	305.4	325.9	356.7
52.5°	161.7	161.7	148.9	138.6	156.6	200.2	202.8	241.3	238.7	282.3
55°	82.1	84.7	120.6	120.6	105.2	164.3	166.8	195.1	200.2	236.1
57.5°	7.7	10.3	15.4	74.4	82.1	89.8	125.8	143.7	166.8	182.2
60°	2.6	2.6	5.1	10.3	48.8	61.6	79.6	95.0	115.5	151.4
62.5°	0.0	0.0	2.6	5.1	10.3	38.5	43.6	48.8	69.3	95.0
65°	0.0	0.0	2.6	2.6	5.1	12.8	18.0	30.8	43.6	59.0
67.5°	0.0	0.0	2.6	2.6	5.1	7.7	10.3	15.4	20.5	38.5
70°	0.0	0.0	2.6	2.6	5.1	7.7	7.7	10.3	12.8	18.0
72.5°	0.0	0.0	2.6	2.6	5.1	10.3	7.7	7.7	10.3	12.8
75°	0.0	0.0	2.6	2.6	5.1	7.7	7.7	7.7	7.7	7.7
77.5°	0.0	0.0	2.6	2.6	5.1	7.7	7.7	7.7	5.1	5.1
80°	0.0	0.0	2.6	2.6	5.1	7.7	10.3	10.3	5.1	5.1
82.5°	0.0	0.0	2.6	5.1	5.1	12.8	15.4	12.8	5.1	2.6
85°	0.0	0.0	2.6	2.6	7.7	12.8	12.8	7.7	5.1	2.6
87.5°	0.0	0.0	0.0	2.6	2.6	5.1	7.7	7.7	2.6	2.6
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°
20172.7	0°	20172.7	20172.7	20172.7	20172.7	20172.7	20172.7	20172.7	20172.7	20172.7
20049.5	2.5°	20039.3	20195.8	20267.7	20193.2	20157.3	20106.0	20031.6	19980.2	19990.5
19582.4	5°	19538.8	19703.0	19759.5	19695.3	19641.4	19613.2	19600.4	19626.0	19692.8
18643.1	7.5°	18637.9	18743.2	18804.8	18774.0	18699.5	18784.2	18807.3	18791.9	18889.5
17372.7	10°	17377.8	17493.3	17436.8	17449.7	17362.4	17406.0	17393.2	17449.7	17547.2
15855.9	12.5°	15753.2	15863.6	15819.9	15812.2	15719.8	15802.0	15750.6	15812.2	15940.6
13946.4	15°	14046.5	14115.8	14087.5	14043.9	13961.8	13990.0	14149.1	14138.9	14195.3
11965.0	17.5°	11913.7	12247.4	12429.6	12468.1	12401.3	12457.8	12570.7	12542.5	12670.8
9875.9	20°	9857.9	10194.2	10643.3	11007.7	11015.4	11023.1	11095.0	11113.0	11223.3
8297.5	22.5°	8261.6	8500.3	8982.8	9465.3	9798.9	9868.2	9860.5	9886.2	9917.0
7042.5	25°	7024.5	7199.0	7640.5	7974.1	8559.3	8754.3	8810.8	8754.3	8772.3
5936.3	27.5°	6003.1	6270.0	6416.3	6773.0	7345.3	7797.0	7779.1	7745.7	7750.8
5166.4	30°	5163.8	5451.3	5666.8	5774.6	6205.8	6857.7	6924.4	6829.5	6832.0
4486.2	32.5°	4458.0	4547.8	4866.1	4953.4	5230.5	5823.4	6051.8	5980.0	5967.1
3588.0	35°	3693.2	3742.0	3888.3	4060.2	4224.5	4673.6	5050.9	4984.1	5017.5
2638.4	37.5°	2628.1	2828.3	2969.4	3110.6	3228.7	3511.0	3965.2	3903.7	3937.0
1868.4	40°	1853.0	1942.8	2186.7	2248.3	2422.8	2553.7	2938.6	2918.1	2959.2
1160.1	42.5°	1139.5	1203.7	1326.9	1385.9	1504.0	1578.4	1804.3	1829.9	1883.8
641.6	45°	646.8	675.0	759.7	823.8	911.1	941.9	1021.5	1057.4	1088.2
497.9	47.5°	492.8	523.6	580.0	636.5	708.4	734.0	790.5	844.4	872.6
385.0	50°	402.9	431.2	490.2	536.4	608.3	631.4	677.6	736.6	772.5
292.6	52.5°	305.4	346.5	418.3	467.1	541.5	569.8	613.4	672.4	705.8
241.3	55°	251.5	282.3	346.5	413.2	482.5	521.0	549.2	621.1	657.0
197.6	57.5°	215.6	238.7	279.7	359.3	418.3	474.8	497.9	564.6	600.6
156.6	60°	164.3	200.2	236.1	297.7	364.4	423.5	449.1	508.2	536.4
112.9	62.5°	136.0	159.1	205.3	238.7	313.1	374.7	400.4	454.3	474.8
74.4	65°	95.0	128.3	172.0	192.5	261.8	320.8	356.7	397.8	418.3
43.6	67.5°	56.5	95.0	136.0	164.3	213.0	272.0	310.5	349.0	367.0
25.7	70°	35.9	74.4	107.8	138.6	166.8	223.3	269.5	302.8	295.1
15.4	72.5°	20.5	46.2	79.6	112.9	138.6	187.4	231.0	256.7	182.2
10.3	75°	12.8	33.4	66.7	92.4	112.9	148.9	189.9	195.1	112.9
5.1	77.5°	10.3	25.7	51.3	74.4	77.0	110.4	133.5	151.4	84.7
5.1	80°	5.1	20.5	43.6	61.6	48.8	77.0	102.7	118.1	66.7
2.6	82.5°	5.1	12.8	33.4	43.6	35.9	59.0	74.4	84.7	56.5
2.6	85°	2.6	10.3	18.0	25.7	25.7	38.5	33.4	41.1	35.9
2.6	87.5°	2.6	5.1	10.3	12.8	10.3	15.4	18.0	18.0	15.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
20172.7
20129.1
19831.4
18987.0
17585.7
15963.6
14208.2
12650.3
11200.2
9860.5
8744.1
7758.5
6834.6
5997.9
5048.3
3965.2
2974.6
1945.4
1085.6
885.4
787.9
728.9
667.3
616.0
541.5
477.4
418.3
364.4
272.0
161.7
105.2
84.7
69.3
61.6
35.9
12.8
0.0

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