

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: P637914

Luminaire Tested: **IFLD-M-SA4C-740-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637914
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-740-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23973.9 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

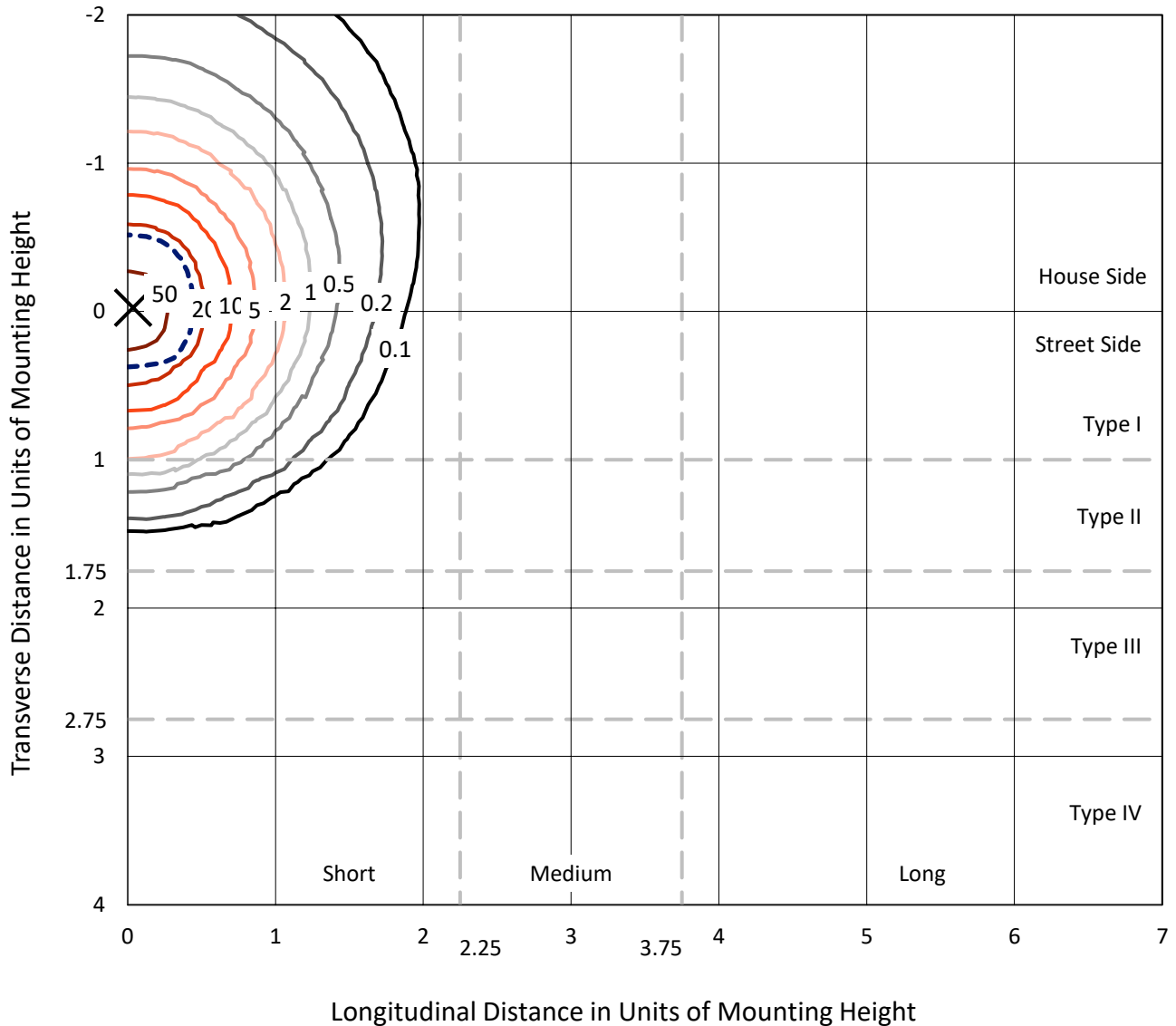
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637914
 CATALOG NUMBER: IFLD-M-SA4C-740-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

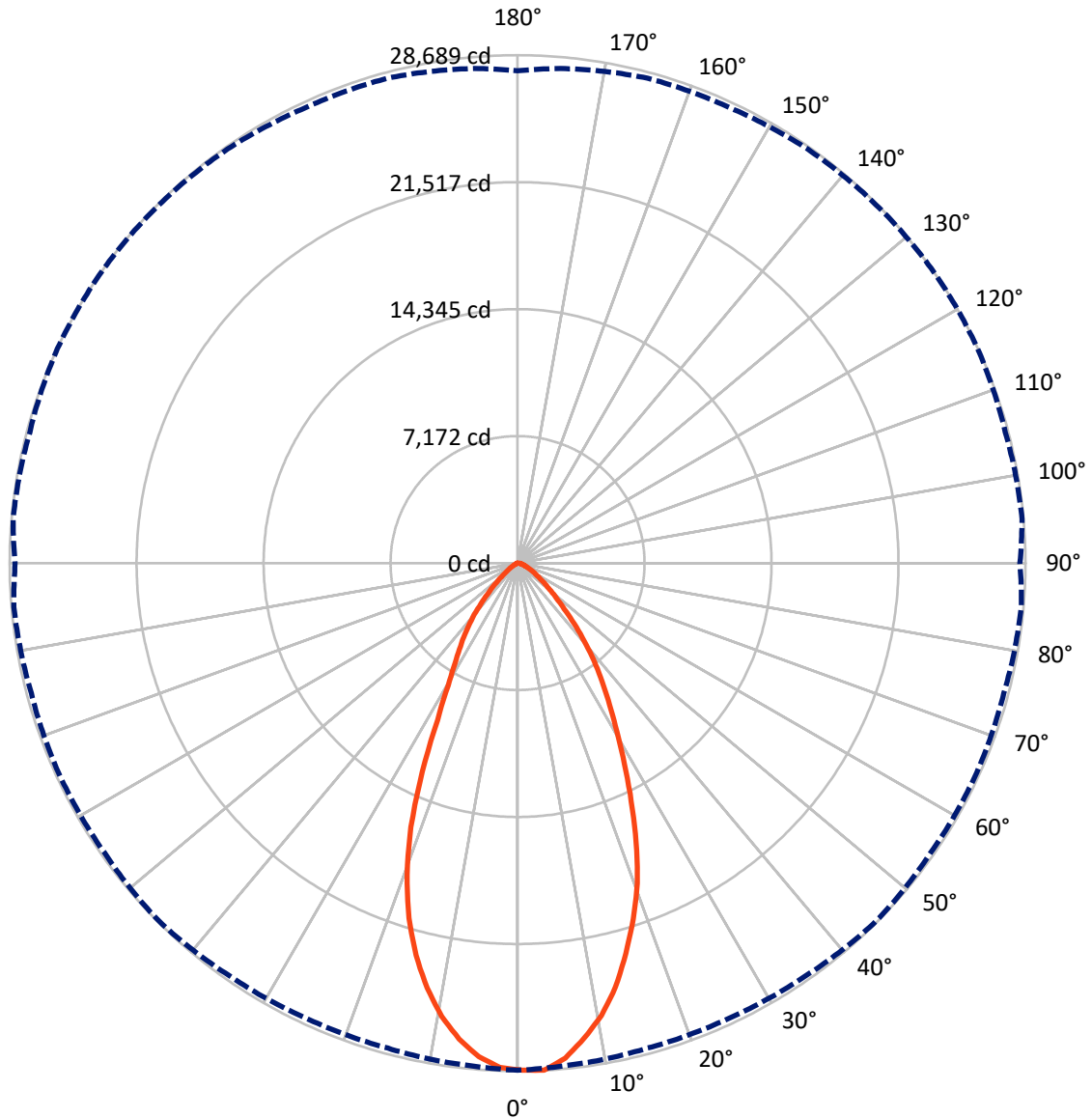
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 71.6 fc
 Type I - Short - N/A

REPORT NUMBER: P637914
CATALOG NUMBER: IFLD-M-SA4C-740-U-66-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P637914

CATALOG NUMBER: IFLD-M-SA4C-740-U-66-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13603.8	0.0	13603.8
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	10370.2	0.0	10370.2
	% Fixture	43.3	0.0	43.3
Total	Lumens	23973.9	0.0	23973.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2600.9	10.8
10°-20°	6200.0	25.9
20°-30°	6314.5	26.3
30°-40°	4708.7	19.6
40°-50°	2460.0	10.3
50°-60°	1034.7	4.3
60°-70°	422.6	1.8
70°-80°	177.8	0.7
80°-90°	54.8	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°	23973.9	100.0
0°-180°	23973.9	100.0



REPORT NUMBER: P637914

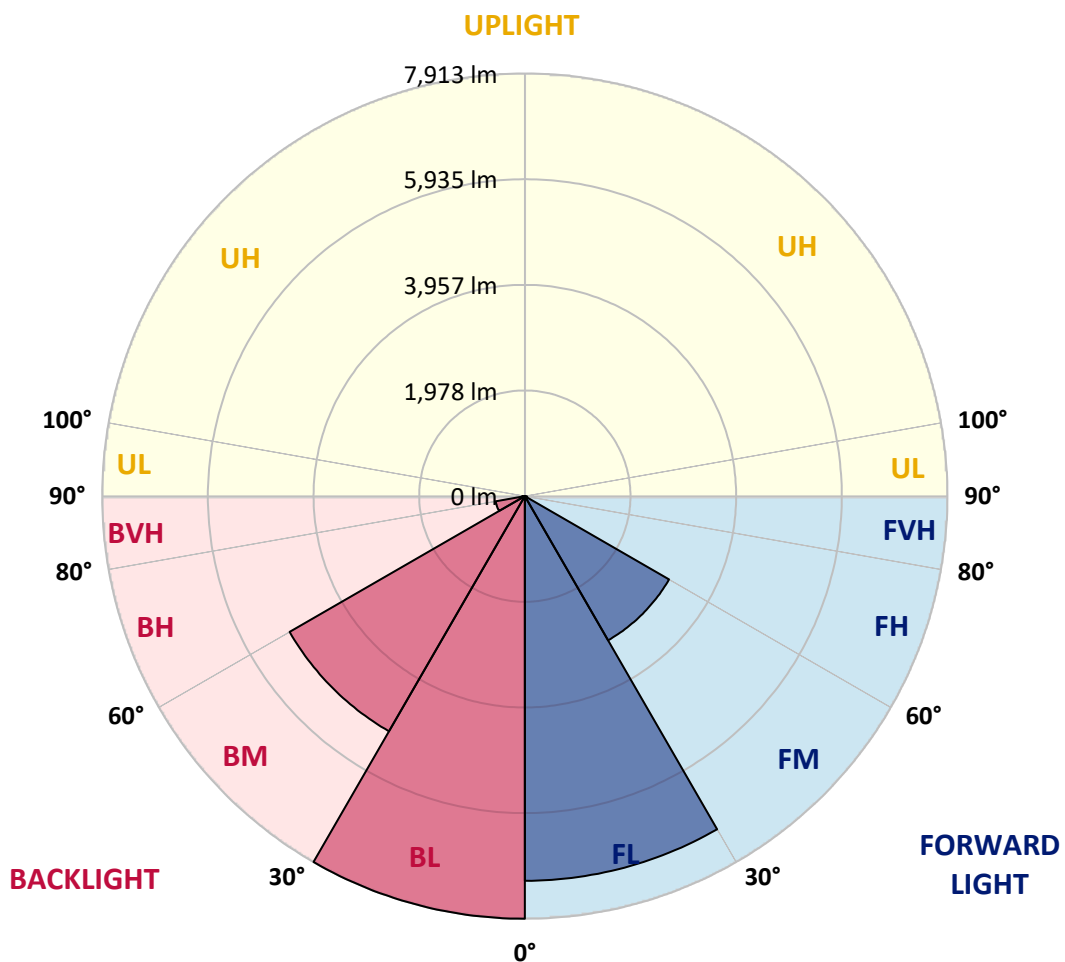
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7202.1	30.0			
FM (30°-60°)	3117.9	13.0			
FH (60°-80°)	45.1	0.2			G0/660
FVH (80°-90°)	5.1	0.0			G0/10
BL (0°-30°)	7913.3	33.0	B5		
BM (30°-60°)	5085.5	21.2	B4/8500		
BH (60°-80°)	555.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	49.7	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-G2

Type I Short





REPORT NUMBER: P637914
 CATALOG NUMBER: IFLD-M-SA4C-740-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	28643.1	28643.1	28643.1	28643.1	28643.1	28643.1	28643.1	28643.1	28643.1	28643.1
2.5°	28646.1	28529.1	28362.8	28347.4	28433.6	28621.5	28501.4	28507.6	28433.6	28559.9
5°	28196.5	28085.7	27971.7	27820.8	27947.1	28027.1	27965.6	27897.8	27802.3	27925.5
7.5°	27346.6	27285.0	27115.6	27047.8	27124.8	27214.1	27081.7	27063.2	26930.8	27091.0
10°	26047.0	26022.3	25856.0	25816.0	25883.8	26019.3	25960.8	25948.4	25865.3	25849.9
12.5°	24698.1	24602.7	24396.3	24384.0	24485.6	24688.9	24531.8	24380.9	24427.1	24467.2
15°	21224.4	21122.8	21634.0	22437.7	22859.6	22844.2	22890.4	22708.7	22653.3	22671.8
17.5°	16873.0	16700.5	16885.3	18129.4	20134.2	21298.3	20978.0	20586.9	20377.5	20238.9
20°	14563.3	14572.5	14538.6	14858.9	16109.2	18763.8	18686.8	17932.3	17658.2	17544.3
22.5°	13159.0	13106.6	13032.7	13134.4	13470.0	15028.3	16072.3	15379.4	15283.9	15157.6
25°	11782.4	11782.4	11693.1	11794.7	11890.2	11911.8	12958.8	13242.1	13057.4	13057.4
27.5°	10590.6	10529.0	10489.0	10535.2	10408.9	9802.3	9934.7	11385.2	11258.9	11181.9
30°	9408.1	9389.6	9321.9	9383.4	8915.3	8231.7	7954.5	9608.3	9740.7	9713.0
32.5°	7766.7	7840.6	8142.4	8237.8	7437.2	6885.9	6621.1	7976.1	8505.8	8484.2
35°	5278.4	5340.0	5684.9	6824.3	6165.3	5771.1	5694.1	6343.9	7215.4	7298.6
37.5°	4203.6	4194.4	4292.9	4496.2	4955.0	4859.6	4838.0	5007.4	5885.1	5922.0
40°	3464.5	3452.2	3449.1	3282.8	3168.9	4040.4	3981.9	3880.3	4640.9	4714.8
42.5°	2793.2	2805.5	2814.7	2451.3	2285.0	3116.5	3082.6	2977.9	3640.0	3726.3
45°	2192.7	2189.6	2208.0	1826.2	1780.0	1992.5	2303.5	2220.4	2747.0	2839.4
47.5°	1136.4	1176.4	1425.8	1413.5	1435.1	1413.5	1743.0	1721.5	2066.4	2214.2
50°	763.7	776.1	797.6	800.7	1130.2	1040.9	1182.6	1339.6	1447.4	1675.3
52.5°	591.3	600.5	545.1	511.2	692.9	769.9	776.1	926.9	1010.1	1241.1
55°	329.5	369.5	397.3	400.3	381.9	569.7	566.6	686.7	751.4	905.4
57.5°	43.1	52.4	80.1	258.7	255.6	317.2	397.3	498.9	535.8	662.1
60°	3.1	6.2	9.2	40.0	169.4	184.8	271.0	311.0	372.6	465.0
62.5°	0.0	0.0	3.1	9.2	33.9	107.8	141.7	163.2	218.6	304.9
65°	0.0	0.0	3.1	6.2	12.3	40.0	55.4	89.3	129.3	187.9
67.5°	0.0	0.0	3.1	6.2	9.2	15.4	24.6	40.0	67.8	113.9
70°	0.0	0.0	3.1	6.2	9.2	12.3	18.5	24.6	37.0	61.6
72.5°	0.0	0.0	3.1	3.1	6.2	15.4	15.4	18.5	24.6	33.9
75°	0.0	0.0	3.1	6.2	9.2	15.4	15.4	15.4	18.5	21.6
77.5°	0.0	0.0	3.1	6.2	9.2	15.4	12.3	15.4	15.4	15.4
80°	0.0	0.0	3.1	6.2	9.2	15.4	18.5	15.4	12.3	12.3
82.5°	0.0	0.0	3.1	9.2	9.2	21.6	21.6	21.6	9.2	9.2
85°	0.0	0.0	6.2	9.2	15.4	24.6	24.6	18.5	9.2	6.2
87.5°	0.0	0.0	3.1	6.2	6.2	12.3	18.5	15.4	6.2	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637914

CATALOG NUMBER: IFLD-M-SA4C-740-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
28643.1	0°	28643.1	28643.1	28643.1	28643.1	28643.1	28643.1	28643.1	28643.1	28643.1
28375.1	2.5°	28603.0	28526.0	28670.8	28689.3	28627.7	28550.7	28372.1	28356.7	28045.6
27746.9	5°	28061.0	27934.8	28027.1	28088.7	28067.2	27984.0	27910.1	27842.4	27562.1
26727.6	7.5°	27050.9	27004.7	27047.8	27094.0	27183.3	27094.0	27063.2	26992.4	26715.2
25723.6	10°	25930.0	25843.7	26006.9	25985.4	25960.8	25936.1	25806.8	25819.1	25492.7
24356.3	12.5°	24553.4	24408.7	24565.7	24584.2	24565.7	24479.5	24334.7	24396.3	24097.6
22508.6	15°	22702.6	22687.2	22801.1	22875.0	22927.4	22835.0	22785.7	22816.5	22637.9
20131.1	17.5°	20429.9	20630.0	21002.7	21128.9	21132.0	21227.5	21199.7	21162.8	21030.4
17498.1	20°	17756.8	18141.7	18714.5	19302.7	19472.1	19392.0	19355.1	19422.8	19225.7
15025.2	22.5°	15290.1	15619.6	16284.8	17144.0	17639.8	17689.0	17679.8	17621.3	17544.3
13045.0	25°	13195.9	13488.5	14126.0	14911.3	15862.9	16004.5	16010.7	15992.2	15924.4
11249.7	27.5°	11428.3	11782.4	12133.5	12835.6	13848.8	14433.9	14360.0	14338.5	14313.8
9734.5	30°	9826.9	10273.4	10603.0	11040.2	11948.7	12740.2	12817.2	12780.2	12721.7
8481.1	32.5°	8558.1	8823.0	9241.8	9537.4	10190.3	11086.4	11382.1	11354.4	11302.0
7350.9	35°	7455.6	7560.3	7889.9	8219.4	8653.6	9522.0	9959.3	9897.7	9888.5
5989.8	37.5°	6140.7	6491.7	6673.4	7006.0	7310.9	7985.3	8588.9	8561.2	8564.3
4816.4	40°	4958.1	5161.4	5521.7	5801.9	6082.1	6574.9	7246.2	7264.7	7258.5
3729.4	42.5°	3806.3	4003.4	4382.2	4687.1	4936.5	5241.4	5882.0	5903.5	5931.2
2904.0	45°	2971.8	3098.0	3375.2	3692.4	3957.2	4142.0	4628.6	4767.2	4770.3
2251.2	47.5°	2306.6	2451.3	2648.4	2953.3	3212.0	3344.4	3698.6	3886.4	3877.2
1727.6	50°	1810.8	1943.2	2103.3	2343.6	2623.8	2728.5	2990.3	3175.0	3165.8
1302.7	52.5°	1385.8	1555.2	1696.8	1881.6	2155.7	2245.0	2432.9	2645.3	2614.6
954.7	55°	1050.1	1222.6	1355.0	1509.0	1758.4	1872.4	2001.7	2171.1	2177.3
739.1	57.5°	791.4	970.1	1090.2	1247.2	1435.1	1561.3	1659.9	1841.6	1838.5
505.0	60°	566.6	720.6	865.4	1028.6	1173.3	1318.1	1385.8	1558.3	1564.4
357.2	62.5°	409.6	554.3	692.9	834.6	963.9	1105.6	1167.2	1302.7	1321.1
234.0	65°	286.4	388.0	548.2	655.9	800.7	905.4	985.5	1102.5	1124.0
138.6	67.5°	184.8	280.2	434.2	529.7	662.1	751.4	834.6	926.9	954.7
89.3	70°	110.9	212.5	323.4	425.0	545.1	625.2	705.2	785.3	800.7
43.1	72.5°	70.8	147.8	234.0	344.9	437.3	523.5	594.4	652.9	606.7
27.7	75°	40.0	101.6	184.8	271.0	354.2	437.3	495.8	526.6	421.9
18.5	77.5°	24.6	73.9	150.9	218.6	274.1	351.1	388.0	406.5	301.8
12.3	80°	15.4	55.4	126.3	178.6	178.6	258.7	301.8	317.2	218.6
9.2	82.5°	12.3	40.0	98.5	135.5	120.1	194.0	237.1	240.2	154.0
6.2	85°	9.2	30.8	61.6	89.3	83.1	135.5	138.6	154.0	101.6
6.2	87.5°	6.2	18.5	37.0	52.4	46.2	64.7	73.9	83.1	55.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
28643.1
27802.3
27337.3
26656.7
25381.8
24011.4
22422.3
20833.3
19084.1
17396.5
15696.6
14169.1
12647.8
11163.4
9786.9
8465.7
7150.8
5838.9
4690.2
3843.3
3165.8
2617.6
2177.3
1832.3
1549.0
1315.0
1117.9
951.6
788.4
563.6
400.3
283.3
203.3
141.7
92.4
49.3
0.0

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