

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: P637888

Luminaire Tested: **IFLD-L-SA7A-735-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637888
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-735-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26031.4 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

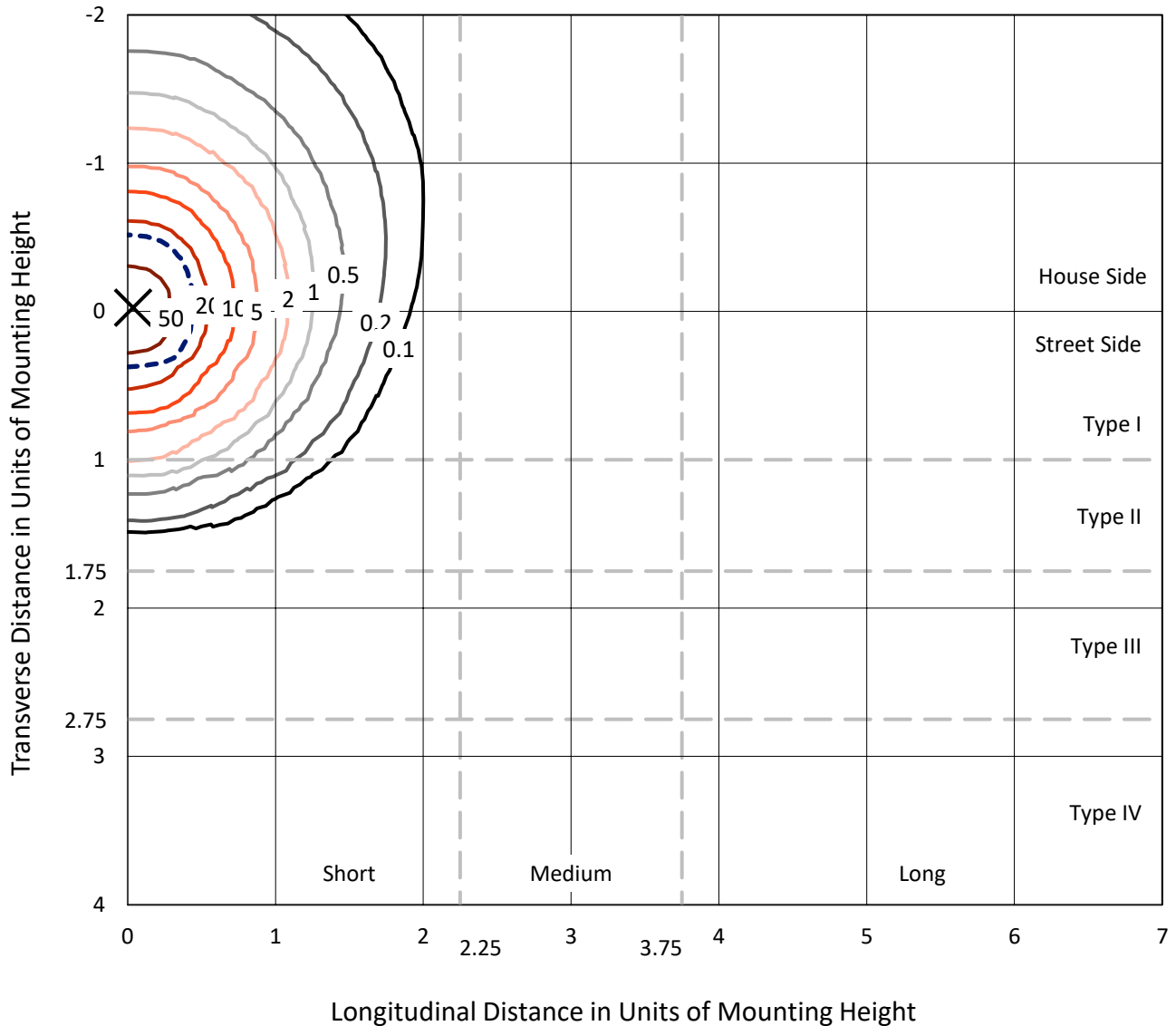
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

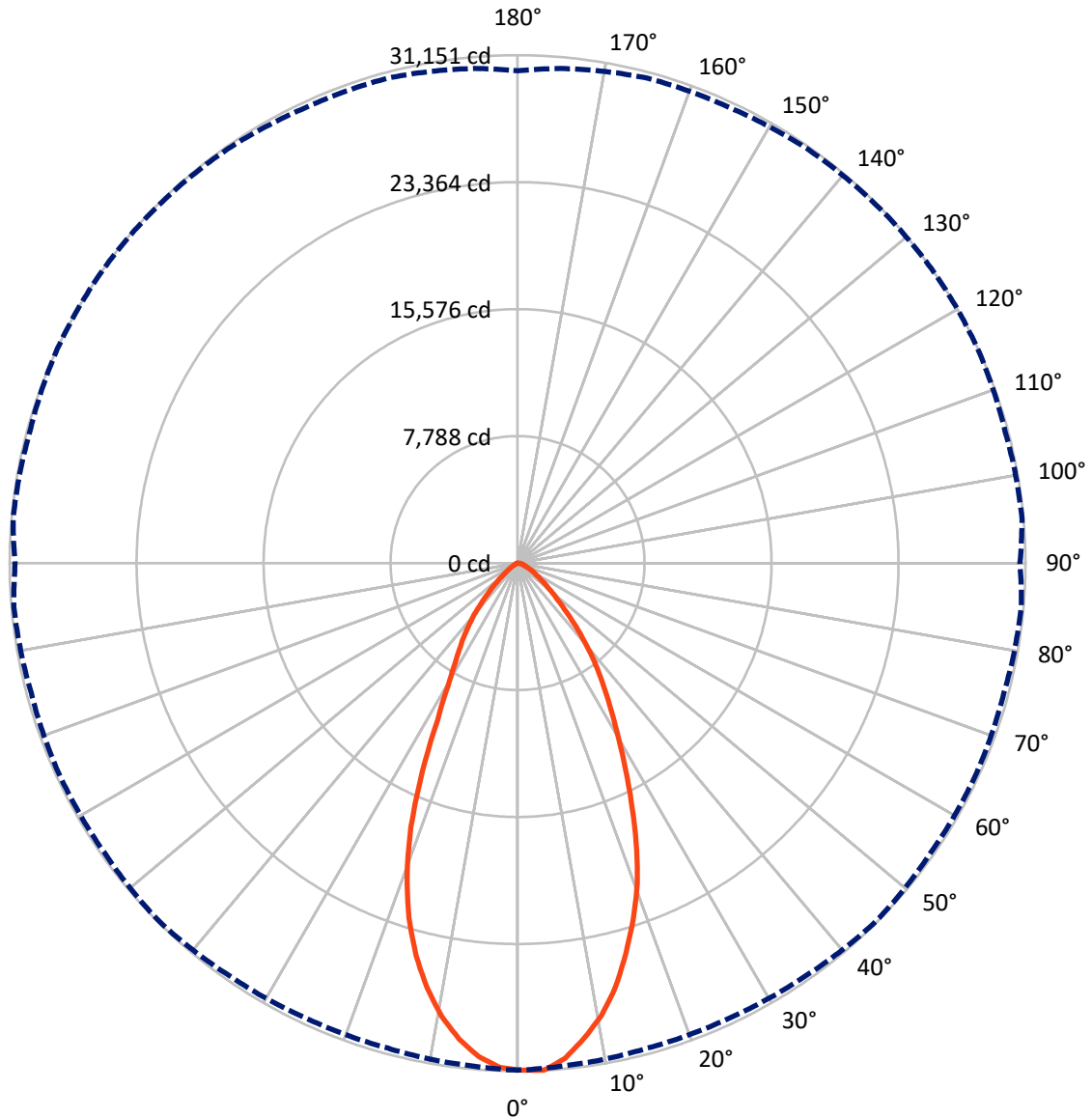
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 77.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14771.2	0.0	14771.2
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	11260.1	0.0	11260.1
	% Fixture	43.3	0.0	43.3
Total	Lumens	26031.4	0.0	26031.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2824.1	10.8
10°-20°	6732.0	25.9
20°-30°	6856.5	26.3
30°-40°	5112.8	19.6
40°-50°	2671.1	10.3
50°-60°	1123.5	4.3
60°-70°	458.8	1.8
70°-80°	193.1	0.7
80°-90°	59.5	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°	26031.4	100.0
0°-180°	26031.4	100.0



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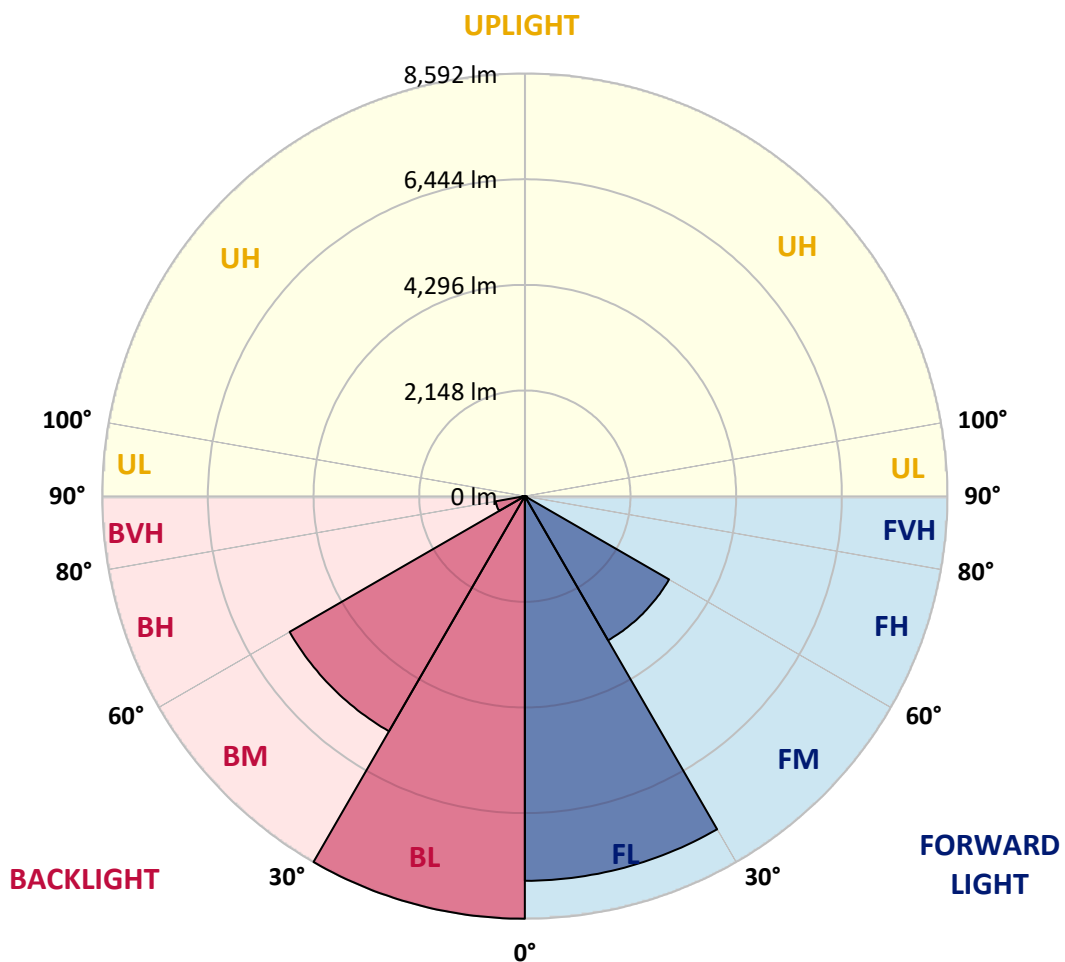
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7820.2	30.0			
FM (30°-60°)	3385.5	13.0			
FH (60°-80°)	49.0	0.2			G0/660
FVH (80°-90°)	5.5	0.0			G0/10
BL (0°-30°)	8592.5	33.0	B5		
BM (30°-60°)	5521.9	21.2	B4/8500		
BH (60°-80°)	602.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	54.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	31101.2	31101.2	31101.2	31101.2	31101.2	31101.2	31101.2	31101.2	31101.2	31101.2
2.5°	31104.6	30977.5	30796.9	30780.2	30873.8	31077.8	30947.4	30954.1	30873.8	31010.9
5°	30616.4	30496.0	30372.3	30208.4	30345.5	30432.5	30365.6	30292.0	30188.3	30322.1
7.5°	29693.5	29626.6	29442.7	29369.1	29452.7	29549.7	29405.9	29385.8	29242.0	29415.9
10°	28282.3	28255.6	28075.0	28031.6	28105.1	28252.3	28188.7	28175.3	28085.1	28068.3
12.5°	26817.7	26714.1	26490.0	26476.7	26587.0	26807.7	26637.2	26473.3	26523.5	26567.0
15°	23045.9	22935.5	23490.6	24363.3	24821.5	24804.7	24854.9	24657.6	24597.4	24617.5
17.5°	18321.0	18133.7	18334.4	19685.3	21862.1	23126.1	22778.4	22353.7	22126.3	21975.8
20°	15813.1	15823.1	15786.4	16134.1	17491.7	20374.1	20290.5	19471.3	19173.7	19050.0
22.5°	14288.3	14231.5	14151.2	14261.6	14626.0	16318.0	17451.6	16699.2	16595.6	16458.5
25°	12793.6	12793.6	12696.6	12807.0	12910.6	12934.0	14071.0	14378.6	14178.0	14178.0
27.5°	11499.5	11432.6	11389.2	11439.3	11302.2	10643.5	10787.3	12362.2	12225.1	12141.5
30°	10215.5	10195.4	10121.9	10188.7	9680.5	8938.1	8637.2	10432.8	10576.6	10546.5
32.5°	8433.2	8513.5	8841.2	8944.8	8075.4	7476.9	7189.3	8660.6	9235.7	9212.3
35°	5731.4	5798.2	6172.8	7410.0	6694.4	6266.4	6182.8	6888.3	7834.7	7924.9
37.5°	4564.4	4554.3	4661.3	4882.0	5380.3	5276.6	5253.2	5437.1	6390.1	6430.2
40°	3761.8	3748.5	3745.1	3564.6	3440.8	4387.1	4323.6	4213.3	5039.2	5119.4
42.5°	3032.9	3046.3	3056.3	2661.7	2481.1	3384.0	3347.2	3233.5	3952.4	4046.1
45°	2380.8	2377.5	2397.5	1982.9	1932.7	2163.5	2501.2	2410.9	2982.7	3083.0
47.5°	1233.9	1277.4	1548.2	1534.8	1558.2	1534.8	1892.6	1869.2	2243.7	2404.2
50°	829.3	842.7	866.1	869.4	1227.2	1130.2	1284.0	1454.6	1571.6	1819.1
52.5°	642.0	652.1	591.9	555.1	752.4	836.0	842.7	1006.5	1096.8	1347.6
55°	357.8	401.3	431.4	434.7	414.6	618.6	615.3	745.7	815.9	983.1
57.5°	46.8	56.8	86.9	280.9	277.5	344.4	431.4	541.7	581.8	718.9
60°	3.3	6.7	10.0	43.5	183.9	200.6	294.3	337.7	404.6	504.9
62.5°	0.0	0.0	3.3	10.0	36.8	117.0	153.8	177.2	237.4	331.0
65°	0.0	0.0	3.3	6.7	13.4	43.5	60.2	97.0	140.4	204.0
67.5°	0.0	0.0	3.3	6.7	10.0	16.7	26.8	43.5	73.6	123.7
70°	0.0	0.0	3.3	6.7	10.0	13.4	20.1	26.8	40.1	66.9
72.5°	0.0	0.0	3.3	3.3	6.7	16.7	16.7	20.1	26.8	36.8
75°	0.0	0.0	3.3	6.7	10.0	16.7	16.7	16.7	20.1	23.4
77.5°	0.0	0.0	3.3	6.7	10.0	16.7	13.4	16.7	16.7	16.7
80°	0.0	0.0	3.3	6.7	10.0	16.7	20.1	16.7	13.4	13.4
82.5°	0.0	0.0	3.3	10.0	10.0	23.4	23.4	23.4	10.0	10.0
85°	0.0	0.0	6.7	10.0	16.7	26.8	26.8	20.1	10.0	6.7
87.5°	0.0	0.0	3.3	6.7	6.7	13.4	20.1	16.7	6.7	3.3
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°
31101.2	0°	31101.2	31101.2	31101.2	31101.2	31101.2	31101.2	31101.2	31101.2	31101.2
30810.3	2.5°	31057.8	30974.2	31131.3	31151.4	31084.5	31000.9	30807.0	30790.2	30452.5
30128.2	5°	30469.2	30332.1	30432.5	30499.3	30475.9	30385.6	30305.4	30231.8	29927.5
29021.3	7.5°	29372.4	29322.3	29369.1	29419.3	29516.2	29419.3	29385.8	29308.9	29008.0
27931.2	10°	28155.3	28061.7	28238.9	28215.5	28188.7	28162.0	28021.5	28034.9	27680.5
26446.6	12.5°	26660.6	26503.4	26674.0	26694.0	26674.0	26580.3	26423.2	26490.0	26165.7
24440.3	15°	24650.9	24634.2	24757.9	24838.2	24895.0	24794.7	24741.2	24774.6	24580.7
21858.8	17.5°	22183.2	22400.5	22805.1	22942.2	22945.6	23049.2	23019.1	22979.0	22835.2
18999.8	20°	19280.7	19698.7	20320.6	20959.3	21143.2	21056.3	21016.1	21089.7	20875.7
16314.7	22.5°	16602.3	16960.0	17682.3	18615.3	19153.6	19207.1	19197.1	19133.6	19050.0
14164.6	25°	14328.4	14646.1	15338.3	16191.0	17224.2	17378.0	17384.7	17364.7	17291.1
12215.1	27.5°	12409.1	12793.6	13174.8	13937.2	15037.3	15672.7	15592.4	15569.0	15542.3
10569.9	30°	10670.3	11155.1	11512.9	11987.7	12974.2	13833.5	13917.1	13877.0	13813.5
9209.0	32.5°	9292.6	9580.2	10034.9	10355.9	11064.8	12037.9	12358.9	12328.8	12272.0
7981.8	35°	8095.5	8209.2	8567.0	8924.8	9396.2	10339.2	10814.0	10747.2	10737.1
6503.8	37.5°	6667.7	7048.9	7246.1	7607.3	7938.3	8670.6	9326.0	9295.9	9299.3
5229.8	40°	5383.6	5604.3	5995.5	6299.8	6604.1	7139.1	7868.1	7888.2	7881.5
4049.4	42.5°	4133.0	4347.0	4758.3	5089.4	5360.2	5691.2	6386.8	6410.2	6440.3
3153.3	45°	3226.8	3363.9	3664.9	4009.3	4296.9	4497.5	5025.8	5176.3	5179.6
2444.4	47.5°	2504.5	2661.7	2875.7	3206.8	3487.6	3631.4	4016.0	4219.9	4209.9
1875.9	50°	1966.2	2110.0	2283.9	2544.7	2849.0	2962.7	3246.9	3447.5	3437.5
1414.5	52.5°	1504.7	1688.6	1842.5	2043.1	2340.7	2437.7	2641.6	2872.4	2838.9
1036.6	55°	1140.3	1327.5	1471.3	1638.5	1909.3	2033.1	2173.5	2357.4	2364.1
802.5	57.5°	859.4	1053.3	1183.7	1354.3	1558.2	1695.3	1802.3	1999.6	1996.3
548.4	60°	615.3	782.5	939.6	1116.8	1274.0	1431.2	1504.7	1692.0	1698.7
387.9	62.5°	444.7	601.9	752.4	906.2	1046.6	1200.4	1267.3	1414.5	1434.5
254.1	65°	311.0	421.3	595.2	712.2	869.4	983.1	1070.0	1197.1	1220.5
150.5	67.5°	200.6	304.3	471.5	575.1	718.9	815.9	906.2	1006.5	1036.6
97.0	70°	120.4	230.7	351.1	461.5	591.9	678.8	765.7	852.7	869.4
46.8	72.5°	76.9	160.5	254.1	374.5	474.8	568.5	645.4	708.9	658.7
30.1	75°	43.5	110.3	200.6	294.3	384.5	474.8	538.4	571.8	458.1
20.1	77.5°	26.8	80.3	163.8	237.4	297.6	381.2	421.3	441.4	327.7
13.4	80°	16.7	60.2	137.1	193.9	193.9	280.9	327.7	344.4	237.4
10.0	82.5°	13.4	43.5	107.0	147.1	130.4	210.7	257.5	260.8	167.2
6.7	85°	10.0	33.4	66.9	97.0	90.3	147.1	150.5	167.2	110.3
6.7	87.5°	6.7	20.1	40.1	56.8	50.2	70.2	80.3	90.3	60.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
31101.2
30188.3
29683.4
28944.4
27560.1
26072.1
24346.6
22621.2
20721.9
18889.5
17043.6
15385.1
13733.2
12121.5
10626.8
9192.3
7764.4
6340.0
5092.7
4173.1
3437.5
2842.3
2364.1
1989.6
1682.0
1427.8
1213.8
1033.3
856.0
611.9
434.7
307.6
220.7
153.8
100.3
53.5
0.0

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