

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: P637079

Luminaire Tested: **IFLD-L-SA7D-730-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637079  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-730-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44173.1 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

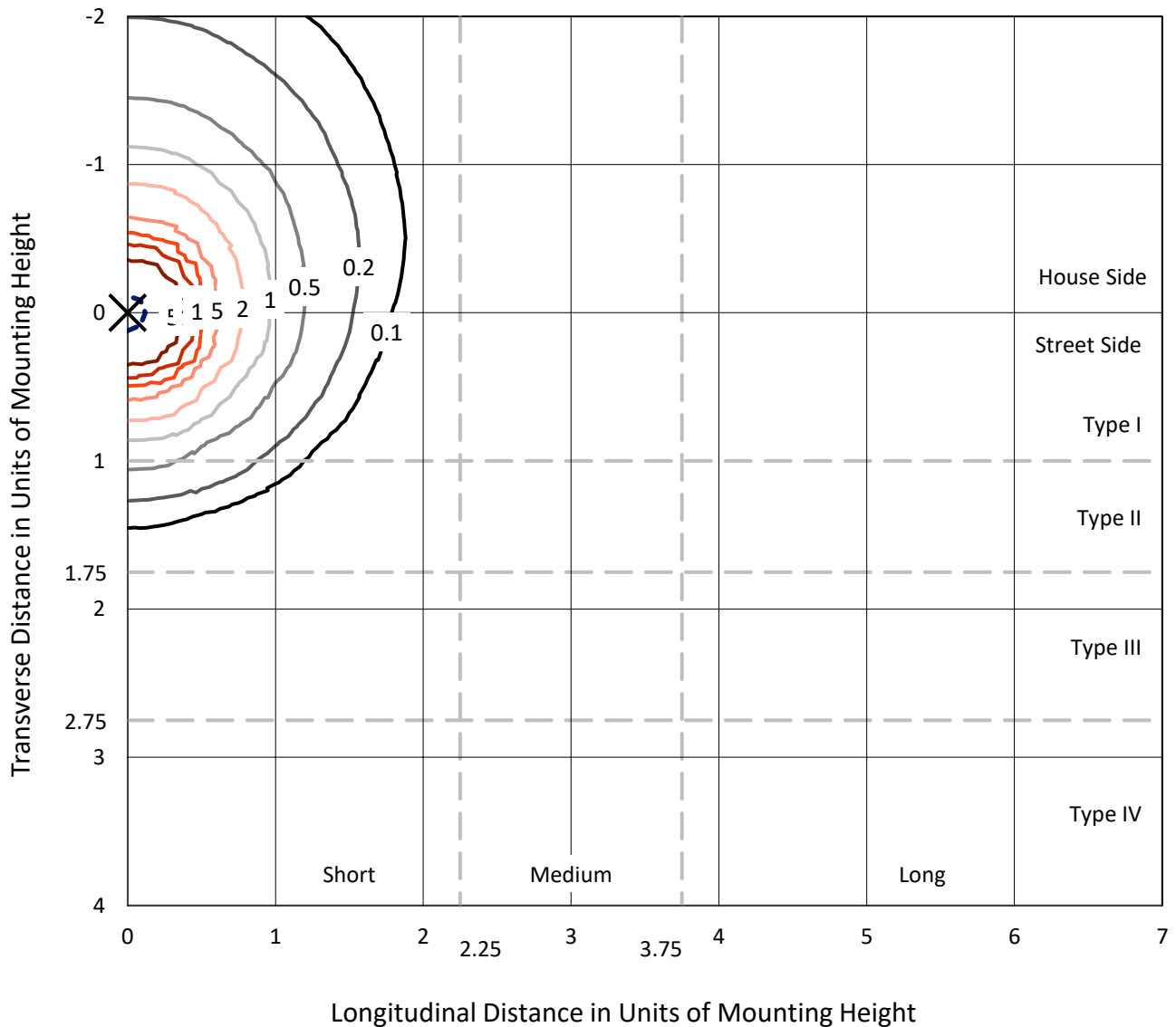
Input Watts (W): 422.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P637079  
 CATALOG NUMBER: IFLD-L-SA7D-730-U-33-VI

### Iso-Footcandle Lines of Horizontal Illumination

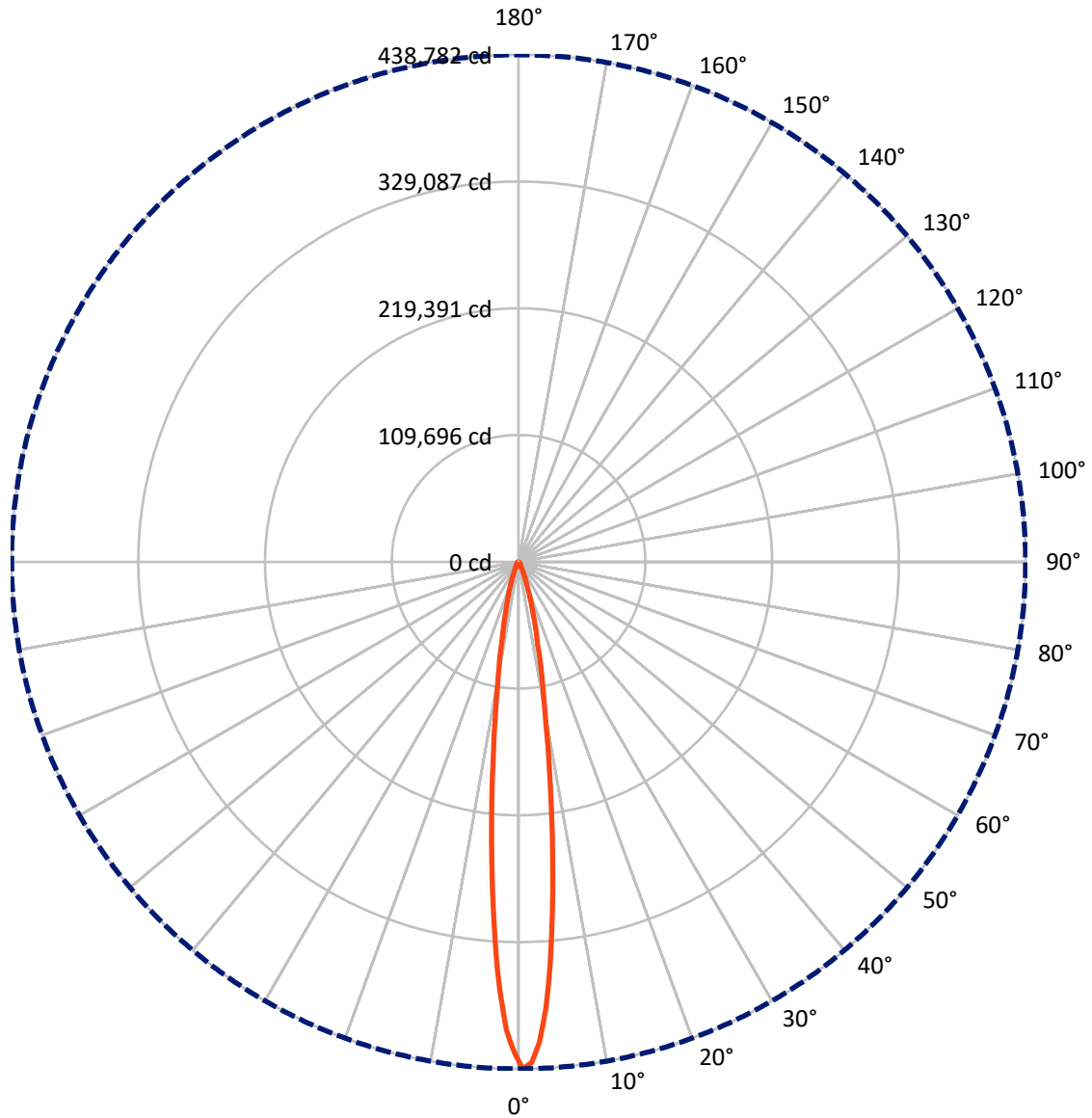
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1097 fc  
 Type V - Short - N/A

REPORT NUMBER: P637079  
CATALOG NUMBER: IFLD-L-SA7D-730-U-33-VI

### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 0-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22624.6	0.0	22624.6
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	21548.4	0.0	21548.4
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	44173.1	0.0	44173.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22299.9	50.5
10°-20°	14276.3	32.3
20°-30°	4291.2	9.7
30°-40°	1397.2	3.2
40°-50°	812.9	1.8
50°-60°	540.0	1.2
60°-70°	325.0	0.7
70°-80°	167.1	0.4
80°-90°	63.5	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°	44173.1	100.0
0°-180°	44173.1	100.0



REPORT NUMBER: P637079

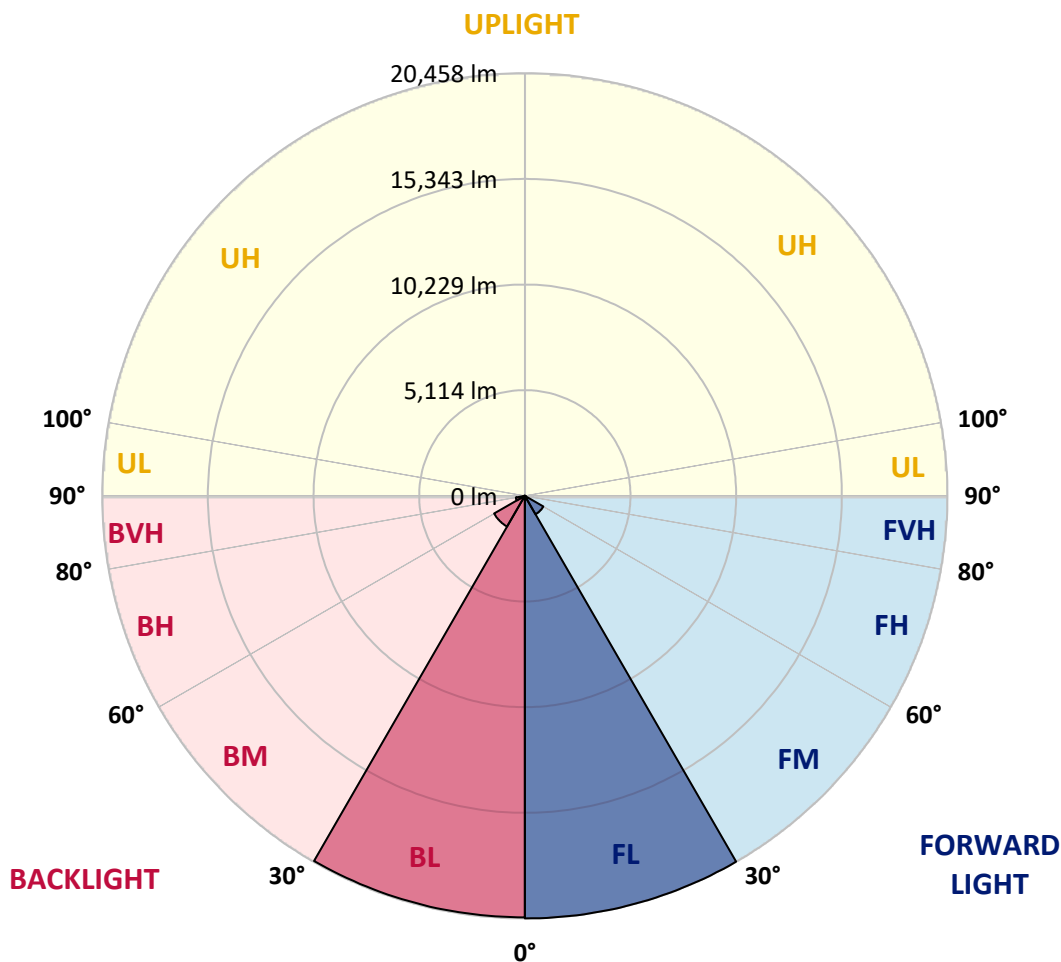
CATALOG NUMBER: IFLD-L-SA7D-730-U-33-VI

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	20457.9	46.3			
FM (30°-60°)	1032.4	2.3			
FH (60°-80°)	48.6	0.1			G0/660
FVH (80°-90°)	9.6	0.0			G0/10
BL (0°-30°)	20409.5	46.2	B5		
BM (30°-60°)	1717.8	3.9	B2/2500		
BH (60°-80°)	443.5	1.0	B1/500		G0/660
BVH (80°-90°)	53.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	438782.2	438782.2	438782.2	438782.2	438782.2	438782.2	438782.2	438782.2	438782.2	438782.2
1°	433528.4	432205.4	428789.4	431219.1	433355.2	432734.6	432691.3	432460.4	432138.0	434668.7
2°	416198.7	415342.3	410290.6	412373.8	415409.6	413196.5	414582.1	413364.9	413388.9	416410.3
3°	386985.3	387452.0	379393.3	383179.7	387399.1	382034.6	383699.3	386826.5	383550.2	382563.9
4°	349015.7	344964.7	340562.5	344411.4	345503.5	342381.1	345450.6	349280.3	344728.9	344931.0
5°	305667.2	302674.6	297464.1	299840.9	297132.2	298118.5	302717.9	304296.0	301120.6	297122.5
6°	261096.6	258970.1	252455.8	255881.3	254919.1	254361.0	260168.1	255356.9	257088.9	254668.9
7°	217180.4	213206.4	210006.9	213288.2	213499.8	211820.8	219359.8	218484.2	215332.9	214601.6
8°	179937.2	175972.8	173264.2	175708.2	177305.5	174669.0	178214.8	180543.4	178080.1	178301.4
9°	145128.5	144430.9	140663.8	143858.4	145595.2	142771.0	146697.0	147538.9	145234.4	146355.4
10°	119162.7	118349.6	115342.6	116636.8	119513.9	116146.1	119913.2	120187.5	118349.6	118874.0
12.5°	73639.6	73312.4	73230.6	73418.2	73379.7	73976.3	74938.6	73841.6	73697.3	71883.5
15°	47596.8	48082.7	47582.3	48544.6	48684.1	49247.0	48660.0	47774.8	46086.1	45248.9
17.5°	29704.1	30324.7	31181.1	32590.8	34000.4	34164.0	33384.6	32345.4	31527.5	30632.6
20°	17089.2	17392.3	17262.4	18951.1	22598.0	23589.1	22583.6	21491.4	20505.1	19600.6
22.5°	10618.2	10507.6	10709.6	11277.3	12465.7	15530.4	14707.7	13615.6	12898.7	12153.0
25°	6509.5	6629.8	6552.8	6865.5	7399.6	8698.6	8886.2	8414.7	8049.1	7664.2
27.5°	4190.5	4190.5	4224.2	4397.4	4763.0	4719.7	5720.5	5354.8	5157.6	4969.9
30°	2910.7	2920.4	2920.4	3021.4	3103.2	2958.9	3218.7	3690.2	3598.7	3454.4
32.5°	2160.2	2189.1	2213.1	2266.1	2198.7	2044.7	2107.3	2655.8	2602.8	2549.9
35°	1645.4	1669.5	1727.2	1756.1	1659.8	1563.6	1505.9	1953.3	1977.4	1963.0
37.5°	1198.0	1212.4	1318.3	1428.9	1318.3	1231.7	1198.0	1501.1	1616.5	1602.1
40°	918.9	923.7	943.0	1068.1	1068.1	1000.7	1010.3	1121.0	1323.1	1323.1
42.5°	789.0	789.0	808.3	789.0	793.8	866.0	890.1	904.5	1121.0	1121.0
45°	683.2	683.2	692.8	644.7	596.6	745.7	765.0	769.8	943.0	967.0
47.5°	572.5	572.5	591.8	529.2	505.2	591.8	644.7	659.1	813.1	832.3
50°	423.4	428.2	485.9	433.0	447.4	457.1	558.1	567.7	688.0	731.3
52.5°	283.9	283.9	293.5	336.8	389.7	375.3	452.2	485.9	548.5	606.2
55°	230.9	230.9	226.1	216.5	288.7	312.7	332.0	404.1	447.4	519.6
57.5°	158.8	168.4	154.0	178.0	187.6	235.7	250.2	317.5	341.6	437.8
60°	19.2	24.1	33.7	129.9	125.1	158.8	187.6	250.2	279.0	336.8
62.5°	4.8	4.8	9.6	24.1	86.6	105.8	149.1	173.2	202.1	259.8
65°	0.0	0.0	4.8	9.6	19.2	57.7	77.0	101.0	144.3	182.8
67.5°	0.0	0.0	4.8	9.6	9.6	24.1	38.5	62.5	77.0	134.7
70°	0.0	0.0	4.8	9.6	9.6	19.2	24.1	28.9	52.9	72.2
72.5°	0.0	0.0	4.8	9.6	14.4	19.2	24.1	24.1	24.1	48.1
75°	0.0	0.0	4.8	9.6	14.4	19.2	24.1	24.1	19.2	19.2
77.5°	0.0	0.0	4.8	9.6	19.2	24.1	28.9	24.1	14.4	14.4
80°	0.0	0.0	4.8	14.4	24.1	33.7	38.5	28.9	14.4	9.6
82.5°	0.0	0.0	9.6	19.2	28.9	38.5	52.9	43.3	19.2	9.6
85°	0.0	0.0	4.8	14.4	28.9	38.5	77.0	52.9	24.1	4.8
87.5°	0.0	0.0	0.0	4.8	4.8	9.6	28.9	19.2	9.6	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637079

CATALOG NUMBER: IFLD-L-SA7D-730-U-33-VI

**CANDELA DISTRIBUTION (continued):**

90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
438782.2	0°	438782.2	438782.2	438782.2	438782.2	438782.2	438782.2	438782.2	438782.2
431748.3	1°	434764.9	435068.0	434076.9	435611.7	435072.8	431916.7	430872.7	429636.2
414635.0	2°	413364.9	414909.3	414986.2	416689.4	416665.3	412984.8	411844.6	413947.0
384565.3	3°	383401.0	385200.4	383579.0	386605.2	385695.9	381231.2	380071.7	382458.0
346528.3	4°	345493.9	345152.3	344594.2	342871.8	344993.5	341948.1	339653.2	342891.1
302424.4	5°	301818.2	301058.1	299970.8	299460.8	301038.8	299090.3	294370.6	299099.9
259047.1	6°	259364.6	256093.0	255934.2	255650.4	255809.2	250353.3	250680.5	254202.2
212085.4	7°	214327.4	214928.8	213701.9	215669.7	214168.6	210473.6	209049.5	212758.9
179273.3	8°	178022.4	177262.2	176324.0	179263.7	176660.8	174236.0	172576.2	175506.2
146538.2	9°	146263.9	144950.5	143997.9	143848.7	144252.9	139701.5	140625.3	142843.2
119162.7	10°	119206.0	117050.6	117575.0	117714.5	117271.9	114289.0	114317.9	115082.8
73086.3	12.5°	72826.5	71768.0	72032.6	72177.0	73076.6	72027.8	70546.0	69477.9
46081.3	15°	45773.3	45013.2	46567.2	47611.2	47399.5	46466.1	45768.5	44801.5
30632.6	17.5°	30348.8	31344.7	31349.5	32302.1	32398.3	31465.0	30926.1	30055.3
19923.0	20°	19850.8	20264.6	21125.8	21799.3	22189.1	21477.0	20832.3	20235.7
12422.4	22.5°	12422.4	13144.1	13682.9	14558.6	14914.6	14395.0	13937.9	13452.0
7755.6	25°	7625.7	8140.5	8587.9	9348.1	9834.0	9583.8	9165.3	8823.7
5008.4	27.5°	5085.4	5301.9	5523.2	6047.6	6552.8	6413.3	6244.9	6038.0
3531.4	30°	3584.3	3603.6	3839.3	4132.8	4469.6	4556.2	4479.2	4373.3
2593.2	32.5°	2641.3	2718.3	2829.0	3011.8	3237.9	3444.8	3406.3	3358.2
1982.2	35°	2039.9	2155.4	2246.8	2386.3	2506.6	2703.9	2737.5	2723.1
1631.0	37.5°	1664.7	1765.7	1857.1	1938.9	2039.9	2174.6	2280.5	2285.3
1347.1	40°	1380.8	1472.2	1592.5	1655.0	1727.2	1828.2	1958.1	1967.8
1140.2	42.5°	1164.3	1250.9	1371.2	1448.2	1501.1	1597.3	1727.2	1746.4
976.7	45°	1000.7	1053.6	1178.7	1270.1	1323.1	1385.6	1525.1	1544.4
842.0	47.5°	870.8	923.7	1000.7	1130.6	1178.7	1236.5	1347.1	1380.8
745.7	50°	765.0	817.9	885.3	1000.7	1072.9	1121.0	1212.4	1260.5
649.5	52.5°	678.4	731.3	803.5	894.9	976.7	1020.0	1106.6	1169.1
529.2	55°	567.7	659.1	712.1	793.8	904.5	943.0	1010.3	1092.1
461.9	57.5°	495.5	572.5	649.5	716.9	827.5	875.6	943.0	1020.0
365.6	60°	418.6	490.7	582.1	639.9	745.7	808.3	880.4	952.6
279.0	62.5°	332.0	428.2	490.7	572.5	673.6	755.4	813.1	885.3
216.5	65°	245.4	351.2	423.4	510.0	606.2	692.8	740.9	817.9
154.0	67.5°	178.0	274.2	360.8	442.6	534.0	620.6	668.8	736.1
96.2	70°	139.5	202.1	298.3	370.5	466.7	538.8	591.8	635.1
62.5	72.5°	81.8	154.0	240.6	322.3	408.9	457.1	495.5	534.0
28.9	75°	52.9	120.3	197.3	269.4	332.0	375.3	408.9	442.6
14.4	77.5°	33.7	86.6	158.8	226.1	255.0	307.9	336.8	356.0
9.6	80°	19.2	67.4	139.5	182.8	206.9	240.6	269.4	293.5
9.6	82.5°	14.4	57.7	115.5	154.0	154.0	192.4	206.9	206.9
4.8	85°	9.6	48.1	91.4	144.3	115.5	144.3	134.7	134.7
4.8	87.5°	9.6	33.7	43.3	62.5	52.9	62.5	62.5	72.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
438782.2  
424738.5  
405041.6  
371859.0  
331171.1  
286639.0  
243993.0  
202669.9  
167139.6  
135915.2  
109877.2  
68828.4  
44305.9  
29838.8  
20028.8  
13192.2  
8626.4  
5917.7  
4301.2  
3319.7  
2675.0  
2251.6  
1953.3  
1732.0  
1539.6  
1385.6  
1265.3  
1169.1  
1096.9  
1024.8  
971.9  
918.9  
832.3  
740.9  
649.5  
543.7  
442.6  
346.4  
264.6  
192.4  
129.9  
72.2  
0.0

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