

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: P637082

Luminaire Tested: **IFLD-L-SA8B-730-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637082
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-730-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36855.7 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

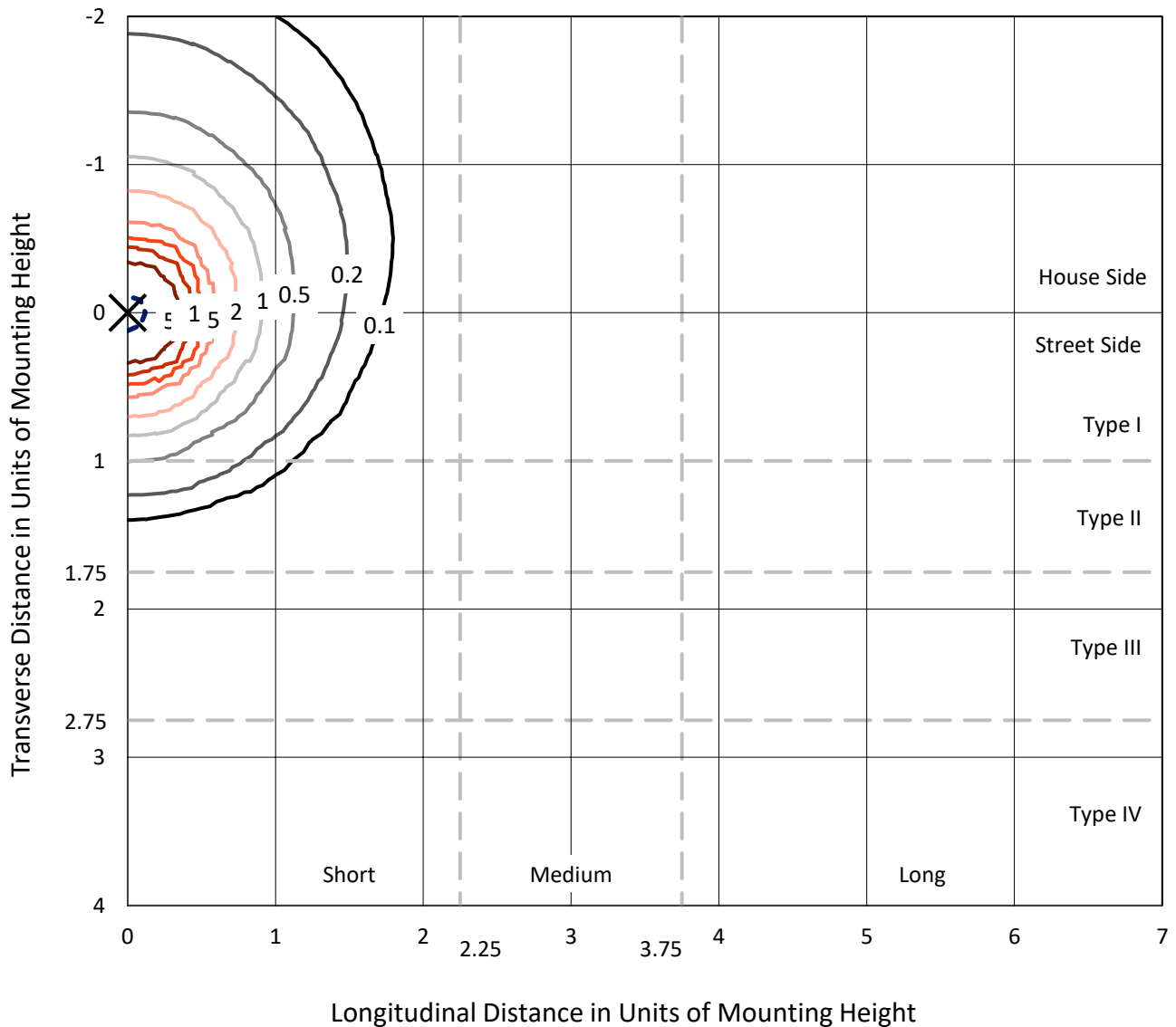
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

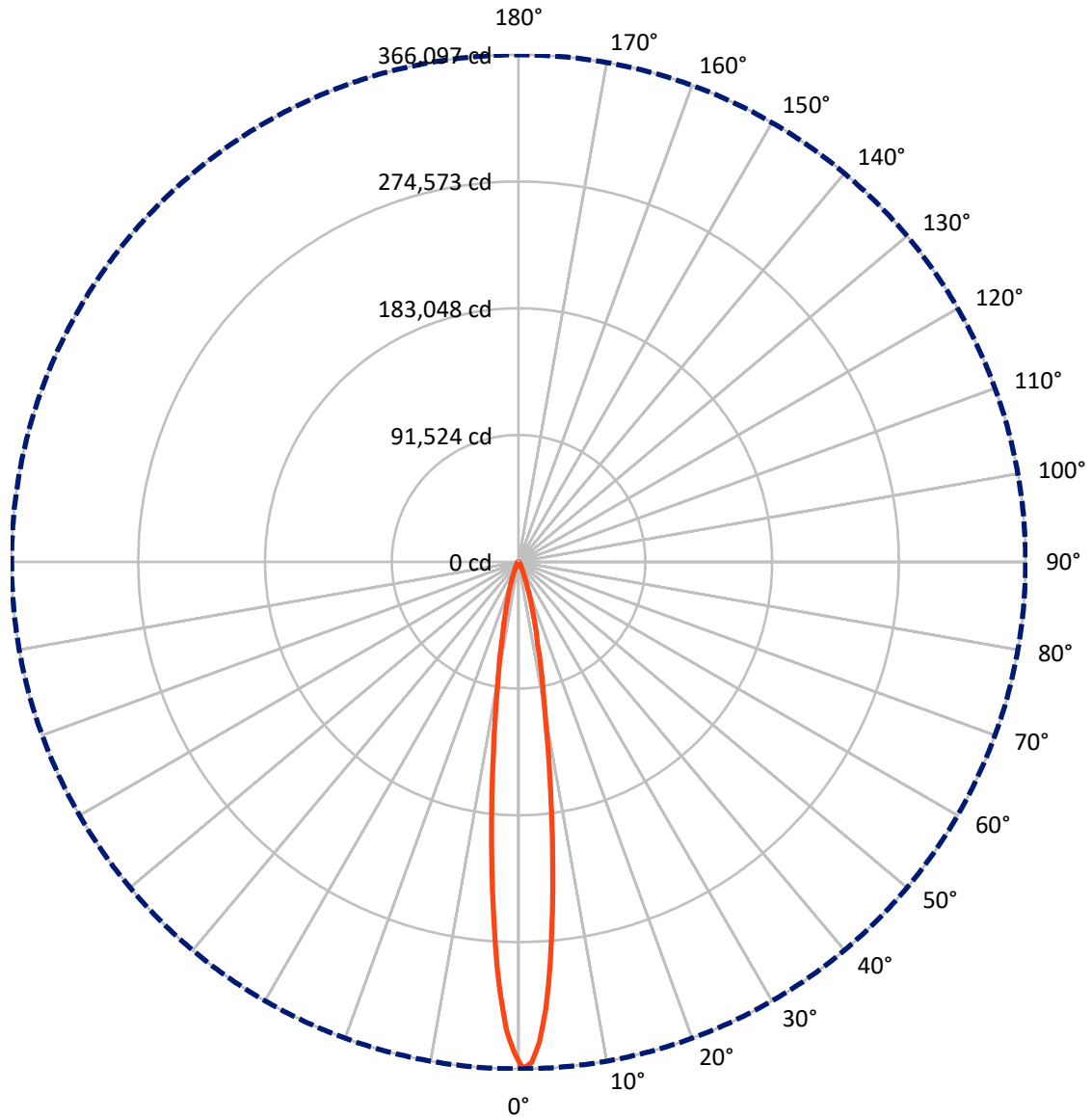
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 915.2 fc
 Type V - Short - N/A

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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
House Side	Lumens	18876.8	0.0	18876.8
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	17978.9	0.0	17978.9
	% Fixture	48.8	0.0	48.8
Total	Lumens	36855.7	0.0	36855.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18605.9	50.5
10°-20°	11911.4	32.3
20°-30°	3580.3	9.7
30°-40°	1165.8	3.2
40°-50°	678.3	1.8
50°-60°	450.5	1.2
60°-70°	271.2	0.7
70°-80°	139.4	0.4
80°-90°	53.0	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°	36855.7	100.0
0°-180°	36855.7	100.0



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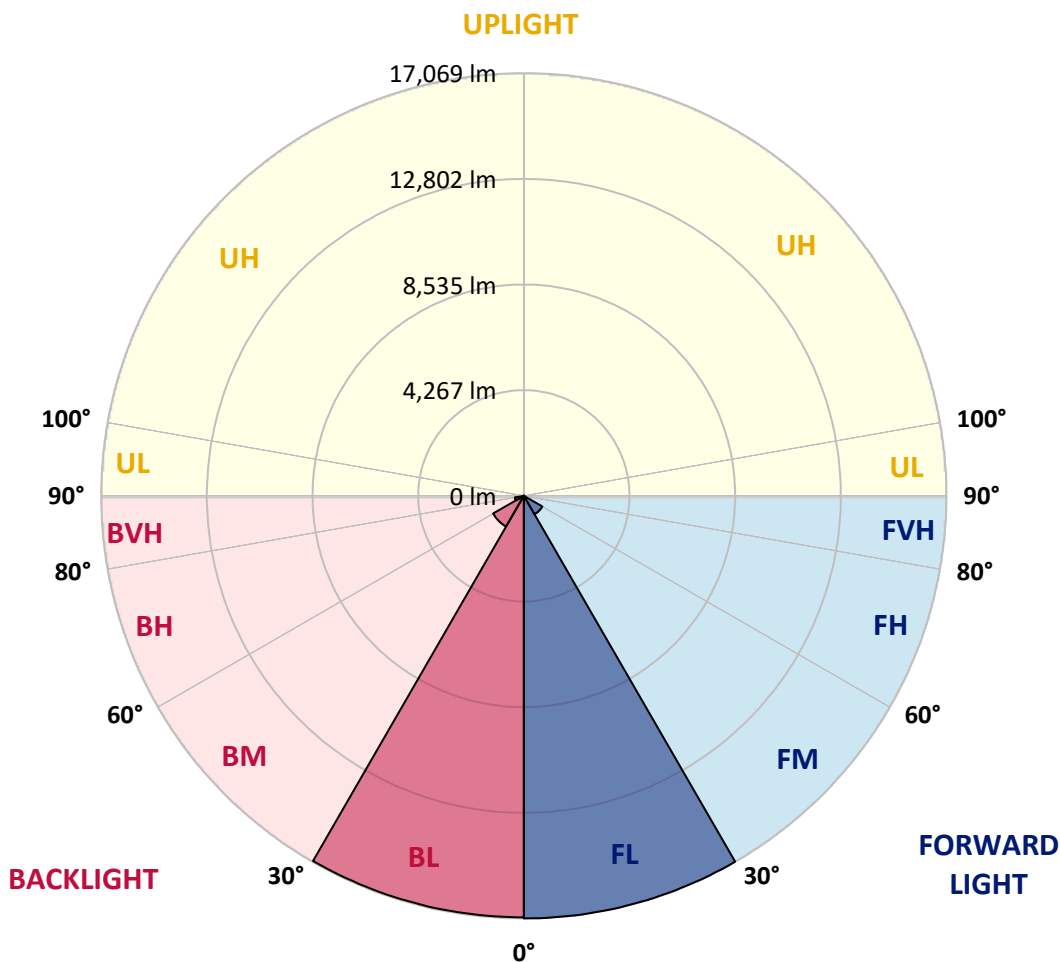
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	17069.0	46.3			
FM (30°-60°)	861.3	2.3			
FH (60°-80°)	40.5	0.1			G0/660
FVH (80°-90°)	8.0	0.0			G0/10
BL (0°-30°)	17028.6	46.2	B5		
BM (30°-60°)	1433.2	3.9	B2/2500		
BH (60°-80°)	370.0	1.0	B1/500		G0/660
BVH (80°-90°)	45.0	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°	366096.7	366096.7	366096.7	366096.7	366096.7	366096.7	366096.7	366096.7	366096.7	366096.7
1°	361713.3	360609.4	357759.3	359786.4	361568.7	361050.9	361014.8	360822.1	360553.2	362664.6
2°	347254.2	346539.7	342324.8	344062.9	346595.9	344749.4	345905.4	344889.8	344909.9	347430.8
3°	322880.1	323269.5	316545.8	319704.9	323225.3	318749.5	320138.4	322747.7	320014.0	319191.1
4°	291200.3	287820.3	284147.4	287358.7	288269.9	285664.7	288225.8	291421.0	287623.6	287792.2
5°	255032.5	252535.7	248188.4	250171.4	247911.4	248734.3	252571.9	253888.5	251239.2	247903.4
6°	217845.2	216071.0	210635.8	213493.9	212691.0	212225.4	217070.5	213056.3	214501.4	212482.3
7°	181203.9	177888.1	175218.7	177956.4	178133.0	176732.1	183022.3	182291.7	179662.4	179052.3
8°	150130.1	146822.4	144562.5	146601.7	147934.4	145734.6	148693.1	150635.9	148580.7	148765.3
9°	121087.6	120505.5	117362.4	120027.8	121476.9	119120.6	122396.2	123098.7	121175.9	122111.2
10°	99423.1	98744.7	96235.8	97315.6	99716.1	96906.2	100049.3	100278.1	98744.7	99182.2
12.5°	61441.0	61168.0	61099.8	61256.3	61224.2	61721.9	62524.8	61609.6	61489.1	59975.8
15°	39712.2	40117.7	39700.2	40503.0	40619.4	41089.1	40599.4	39860.8	38451.8	37753.3
17.5°	24783.5	25301.3	26015.9	27192.0	28368.2	28504.7	27854.4	26987.3	26304.9	25558.2
20°	14258.3	14511.2	14402.9	15811.8	18854.6	19681.5	18842.5	17931.3	17108.4	16353.7
22.5°	8859.3	8767.0	8935.6	9409.2	10400.7	12957.8	12271.3	11360.1	10762.0	10139.8
25°	5431.2	5531.5	5467.3	5728.2	6173.8	7257.6	7414.2	7020.8	6715.7	6394.6
27.5°	3496.3	3496.3	3524.4	3669.0	3974.0	3937.9	4772.9	4467.8	4303.2	4146.6
30°	2428.6	2436.6	2436.6	2520.9	2589.1	2468.7	2685.5	3078.9	3002.6	2882.2
32.5°	1802.4	1826.4	1846.5	1890.7	1834.5	1706.0	1758.2	2215.8	2171.7	2127.5
35°	1372.8	1392.9	1441.1	1465.2	1384.9	1304.6	1256.4	1629.8	1649.8	1637.8
37.5°	999.5	1011.6	1099.9	1192.2	1099.9	1027.6	999.5	1252.4	1348.8	1336.7
40°	766.7	770.7	786.8	891.1	891.1	834.9	843.0	935.3	1103.9	1103.9
42.5°	658.3	658.3	674.4	658.3	662.3	722.6	742.6	754.7	935.3	935.3
45°	570.0	570.0	578.0	537.9	497.8	622.2	638.3	642.3	786.8	806.8
47.5°	477.7	477.7	493.7	441.6	421.5	493.7	537.9	549.9	678.4	694.5
50°	353.2	357.3	405.4	361.3	373.3	381.3	465.6	473.7	574.0	610.2
52.5°	236.8	236.8	244.9	281.0	325.1	313.1	377.3	405.4	457.6	505.8
55°	192.7	192.7	188.7	180.6	240.9	260.9	277.0	337.2	373.3	433.5
57.5°	132.5	140.5	128.5	148.5	156.6	196.7	208.7	264.9	285.0	365.3
60°	16.1	20.1	28.1	108.4	104.4	132.5	156.6	208.7	232.8	281.0
62.5°	4.0	4.0	8.0	20.1	72.3	88.3	124.4	144.5	168.6	216.8
65°	0.0	0.0	4.0	8.0	16.1	48.2	64.2	84.3	120.4	152.5
67.5°	0.0	0.0	4.0	8.0	8.0	20.1	32.1	52.2	64.2	112.4
70°	0.0	0.0	4.0	8.0	8.0	16.1	20.1	24.1	44.2	60.2
72.5°	0.0	0.0	4.0	8.0	12.0	16.1	20.1	20.1	20.1	40.1
75°	0.0	0.0	4.0	8.0	12.0	16.1	20.1	20.1	16.1	16.1
77.5°	0.0	0.0	4.0	8.0	16.1	20.1	24.1	20.1	12.0	12.0
80°	0.0	0.0	4.0	12.0	20.1	28.1	32.1	24.1	12.0	8.0
82.5°	0.0	0.0	8.0	16.1	24.1	32.1	44.2	36.1	16.1	8.0
85°	0.0	0.0	4.0	12.0	24.1	32.1	64.2	44.2	20.1	4.0
87.5°	0.0	0.0	0.0	4.0	4.0	8.0	24.1	16.1	8.0	4.0
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°
366096.7	0°	366096.7	366096.7	366096.7	366096.7	366096.7	366096.7	366096.7	366096.7
360228.0	1°	362744.9	362997.8	362170.9	363451.4	363001.8	360368.5	359497.4	358465.8
345949.6	2°	344889.8	346178.4	346242.6	347663.6	347643.6	344572.7	343621.4	345375.6
320861.0	3°	319889.6	321390.9	320038.1	322563.0	321804.3	318079.2	317111.8	319102.8
289124.9	4°	288261.9	287976.9	287511.2	286074.2	287844.4	285303.4	283388.7	286090.2
252327.0	5°	251821.2	251187.0	250279.8	249854.3	251170.9	249545.2	245607.3	249553.2
216135.2	6°	216400.1	213670.5	213538.0	213301.2	213433.7	208881.6	209154.5	212092.9
176952.8	7°	178823.4	179325.2	178301.6	179943.4	178691.0	175608.1	174419.9	177514.8
149576.2	8°	148532.5	147898.2	147115.5	149568.1	147396.5	145373.3	143988.4	146433.1
122263.7	9°	122034.9	120939.1	120144.2	120019.8	120357.0	116559.6	117330.3	119180.8
99423.1	10°	99459.2	97660.9	98098.4	98214.8	97845.5	95356.7	95380.8	96019.1
60979.3	12.5°	60762.6	59879.4	60100.2	60220.6	60971.3	60096.2	58859.8	57968.7
38447.8	15°	38190.9	37556.6	38853.2	39724.3	39547.6	38768.9	38186.8	37380.0
25558.2	17.5°	25321.4	26152.3	26156.4	26951.2	27031.5	26252.7	25803.1	25076.5
16622.7	20°	16562.5	16907.7	17626.2	18188.2	18513.4	17919.3	17381.4	16883.6
10364.6	22.5°	10364.6	10966.7	11416.3	12146.9	12443.9	12010.4	11629.1	11223.6
6470.8	25°	6362.5	6792.0	7165.3	7799.5	8205.0	7996.2	7647.0	7362.0
4178.8	27.5°	4243.0	4423.6	4608.3	5045.8	5467.3	5350.9	5210.4	5037.8
2946.4	30°	2990.6	3006.6	3203.3	3448.2	3729.2	3801.4	3737.2	3648.9
2163.6	32.5°	2203.8	2268.0	2360.3	2512.9	2701.5	2874.1	2842.0	2801.9
1653.8	35°	1702.0	1798.4	1874.6	1991.0	2091.4	2256.0	2284.1	2272.0
1360.8	37.5°	1388.9	1473.2	1549.5	1617.7	1702.0	1814.4	1902.7	1906.7
1124.0	40°	1152.1	1228.3	1328.7	1380.9	1441.1	1525.4	1633.8	1641.8
951.4	42.5°	971.4	1043.7	1144.0	1208.3	1252.4	1332.7	1441.1	1457.1
814.9	45°	834.9	879.1	983.5	1059.7	1103.9	1156.1	1272.5	1288.6
702.5	47.5°	726.6	770.7	834.9	943.3	983.5	1031.6	1124.0	1152.1
622.2	50°	638.3	682.4	738.6	834.9	895.2	935.3	1011.6	1051.7
541.9	52.5°	566.0	610.2	670.4	746.6	814.9	851.0	923.3	975.4
441.6	55°	473.7	549.9	594.1	662.3	754.7	786.8	843.0	911.2
385.4	57.5°	413.5	477.7	541.9	598.1	690.4	730.6	786.8	851.0
305.1	60°	349.2	409.4	485.7	533.9	622.2	674.4	734.6	794.8
232.8	62.5°	277.0	357.3	409.4	477.7	562.0	630.2	678.4	738.6
180.6	65°	204.7	293.0	353.2	425.5	505.8	578.0	618.2	682.4
128.5	67.5°	148.5	228.8	301.1	369.3	445.6	517.8	558.0	614.2
80.3	70°	116.4	168.6	248.9	309.1	389.4	449.6	493.7	529.9
52.2	72.5°	68.2	128.5	200.7	268.9	341.2	381.3	413.5	445.6
24.1	75°	44.2	100.4	164.6	224.8	277.0	313.1	341.2	369.3
12.0	77.5°	28.1	72.3	132.5	188.7	212.8	256.9	281.0	297.0
8.0	80°	16.1	56.2	116.4	152.5	172.6	200.7	224.8	244.9
8.0	82.5°	12.0	48.2	96.3	128.5	128.5	160.6	172.6	172.6
4.0	85°	8.0	40.1	76.3	120.4	96.3	120.4	112.4	112.4
4.0	87.5°	8.0	28.1	36.1	52.2	44.2	52.2	52.2	60.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
366096.7
354379.4
337945.3
310259.6
276311.7
239156.5
203574.8
169097.1
139452.4
113400.4
91675.7
57426.8
36966.5
24895.9
16711.0
11006.9
7197.4
4937.4
3588.7
2769.8
2231.9
1878.6
1629.8
1445.1
1284.5
1156.1
1055.7
975.4
915.2
855.0
810.9
766.7
694.5
618.2
541.9
453.6
369.3
289.0
220.8
160.6
108.4
60.2
0.0

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