

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: P637283

Luminaire Tested: **IFLD-L-SA7E-722-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637283
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-722-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40105.2 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

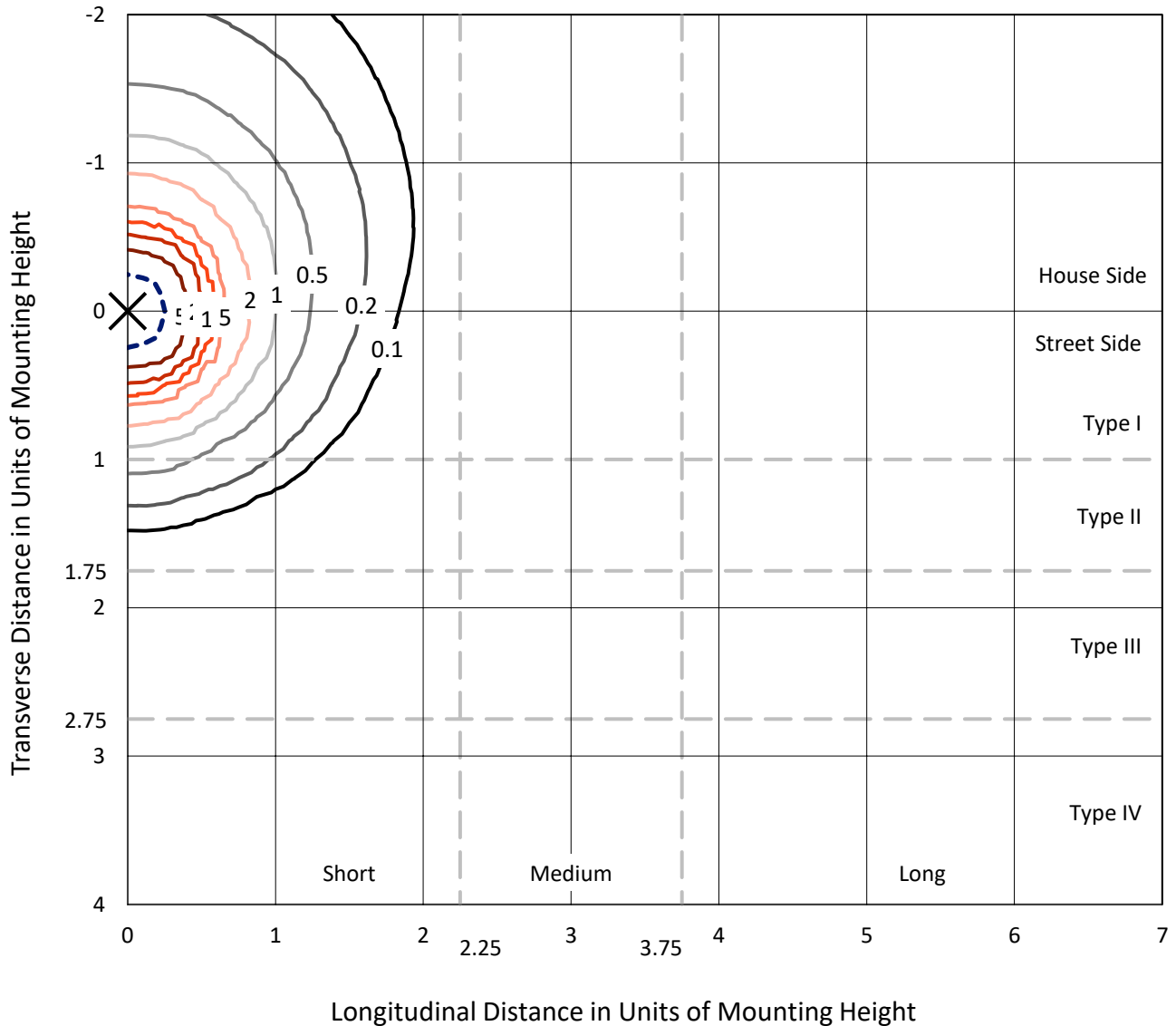
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

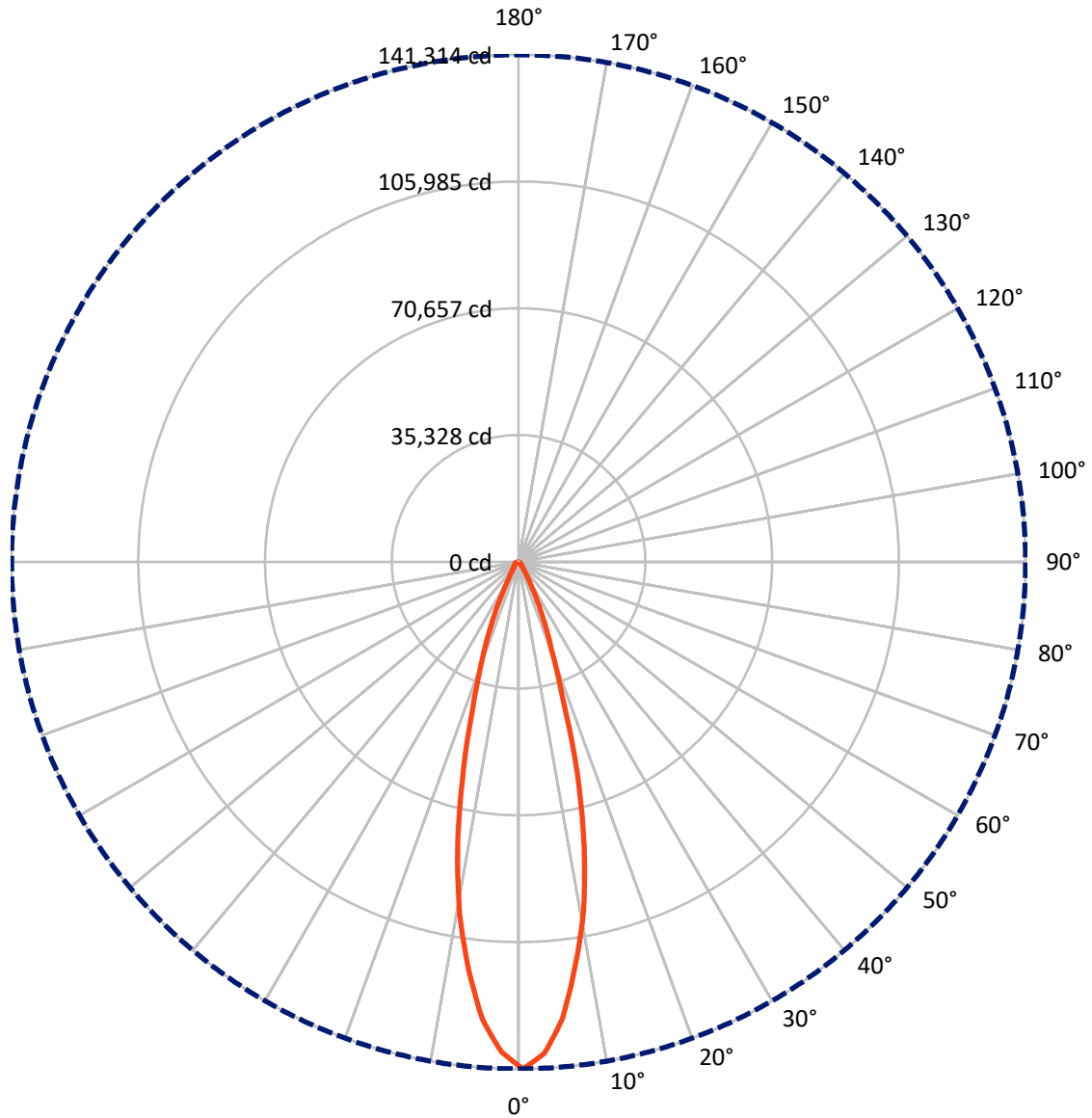
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 353.3 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	21146.2	0.0	21146.2
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	18959.0	0.0	18959.0
	% Fixture	47.3	0.0	47.3
Total	Lumens	40105.2	0.0	40105.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11405.3	28.4
10°-20°	17273.2	43.1
20°-30°	7289.4	18.2
30°-40°	1901.1	4.7
40°-50°	961.6	2.4
50°-60°	628.5	1.6
60°-70°	376.6	0.9
70°-80°	198.1	0.5
80°-90°	71.5	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°	40105.2	100.0
0°-180°	40105.2	100.0

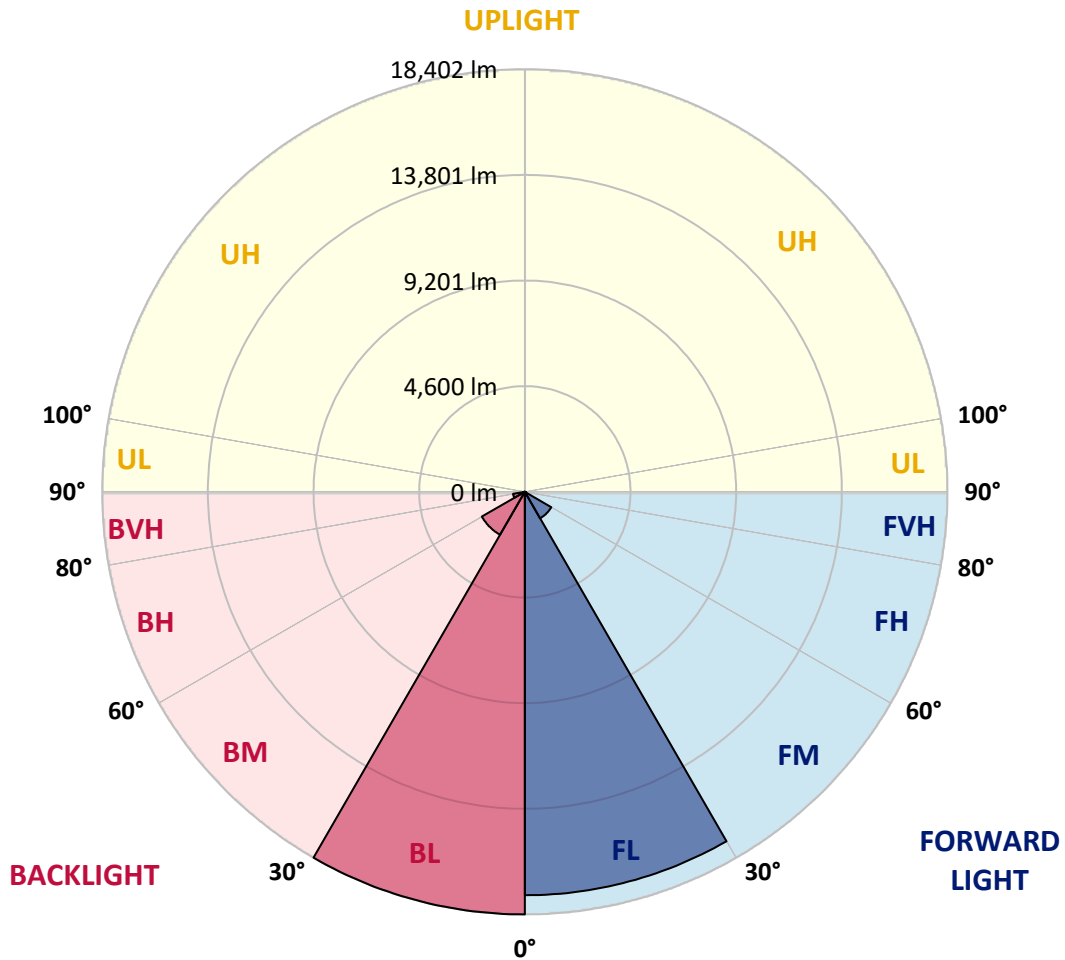


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	17565.8	43.8			
FM (30°-60°)	1330.3	3.3			
FH (60°-80°)	54.2	0.1			G0/660
FVH (80°-90°)	8.7	0.0			G0/10
BL (0°-30°)	18402.0	45.9	B5		
BM (30°-60°)	2160.9	5.4	B2/2500		
BH (60°-80°)	520.4	1.3	B2/1000		G0/660
BVH (80°-90°)	62.9	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-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	141313.6	141313.6	141313.6	141313.6	141313.6	141313.6	141313.6	141313.6	141313.6	141313.6
2.5°	137197.0	137273.6	136989.9	137602.4	137125.0	138404.1	137769.0	138759.9	138426.6	138980.6
5°	127829.0	127702.9	127621.8	128572.1	128297.4	129671.1	128792.8	128504.6	129396.3	129234.2
7.5°	113682.3	114015.6	113826.4	114074.1	114213.8	115781.1	116276.5	115889.2	115902.7	116127.9
10°	99179.8	98688.9	97990.8	98454.7	99436.6	100121.1	99846.4	100413.9	100287.8	100823.7
12.5°	81335.5	81722.8	81331.0	80916.6	82632.6	82443.4	82920.8	83231.6	82452.4	84186.4
15°	61266.2	61468.9	61946.3	61914.8	63234.4	63500.1	63437.1	63765.9	63157.8	63446.1
17.5°	39359.4	40044.0	41327.6	43498.4	45939.5	46223.3	46151.2	45881.0	45588.2	45263.9
20°	26437.7	26365.7	26829.6	27464.6	32518.0	33855.6	33815.1	32968.4	31743.3	31509.1
22.5°	18519.9	18655.1	18592.0	19222.5	20267.4	23956.1	23501.2	22641.0	22240.1	21978.9
25°	12183.0	12133.4	12448.7	12637.9	13534.1	13984.5	15578.9	15259.1	14642.1	14709.7
27.5°	7426.9	7489.9	7607.0	7769.2	8404.2	8260.1	9169.9	9291.5	9093.3	8881.6
30°	4557.9	4603.0	4697.5	4814.6	5035.3	4877.7	5129.9	5566.8	5494.7	5346.1
32.5°	3094.2	3098.7	3166.2	3211.3	3184.2	3035.6	3116.7	3531.0	3540.0	3526.5
35°	2224.9	2224.9	2288.0	2324.0	2247.4	2125.8	2139.3	2396.1	2508.7	2531.2
37.5°	1535.8	1540.3	1648.4	1756.5	1670.9	1639.4	1585.4	1756.5	1936.7	1963.7
40°	1166.5	1162.0	1216.0	1297.1	1306.1	1247.6	1265.6	1373.7	1558.3	1580.9
42.5°	945.8	950.3	977.3	968.3	972.8	1049.4	1076.4	1126.0	1297.1	1337.7
45°	797.2	801.7	815.2	770.2	752.1	869.2	905.3	932.3	1076.4	1126.0
47.5°	657.6	666.6	680.1	630.5	621.5	698.1	761.2	788.2	914.3	968.3
50°	472.9	481.9	531.5	504.4	531.5	549.5	635.0	675.6	761.2	833.2
52.5°	342.3	351.3	364.8	369.3	436.9	445.9	508.9	572.0	612.5	693.6
55°	270.2	279.2	270.2	261.2	319.8	369.3	391.8	459.4	490.9	585.5
57.5°	153.1	162.1	175.7	202.7	211.7	283.7	306.3	364.8	391.8	481.9
60°	27.0	31.5	49.5	121.6	148.6	180.2	229.7	279.2	315.3	378.3
62.5°	4.5	4.5	9.0	27.0	85.6	126.1	166.6	198.2	229.7	288.2
65°	0.0	0.0	4.5	9.0	22.5	72.1	90.1	117.1	157.6	207.2
67.5°	0.0	0.0	4.5	9.0	13.5	27.0	40.5	72.1	90.1	139.6
70°	0.0	0.0	4.5	9.0	13.5	18.0	22.5	31.5	54.0	85.6
72.5°	0.0	0.0	4.5	9.0	13.5	18.0	22.5	27.0	27.0	54.0
75°	0.0	0.0	4.5	9.0	13.5	22.5	27.0	27.0	22.5	22.5
77.5°	0.0	0.0	4.5	9.0	18.0	27.0	31.5	27.0	18.0	18.0
80°	0.0	0.0	9.0	13.5	22.5	31.5	40.5	31.5	18.0	9.0
82.5°	0.0	0.0	9.0	18.0	22.5	36.0	49.5	40.5	18.0	9.0
85°	0.0	0.0	4.5	13.5	27.0	36.0	49.5	36.0	18.0	4.5
87.5°	0.0	0.0	4.5	4.5	9.0	13.5	27.0	22.5	9.0	4.5
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°
141313.6	0°	141313.6	141313.6	141313.6	141313.6	141313.6	141313.6	141313.6	141313.6	141313.6
137931.2	2.5°	138723.9	139444.5	139593.1	139394.9	139683.2	139165.2	138768.9	137742.0	137125.0
129184.6	5°	130017.9	129909.8	130661.9	130909.6	130878.1	130481.8	129927.8	129306.3	128702.7
115691.0	7.5°	116411.7	116551.3	117235.9	117672.7	117452.1	116956.6	116573.8	116105.4	115700.0
101017.4	10°	101940.7	100981.4	101832.6	101832.6	102422.6	101021.9	101152.5	99972.5	100026.6
84154.9	12.5°	84443.2	84790.0	84929.6	85330.4	84641.3	83898.2	82988.4	82808.2	82245.3
62896.6	15°	63801.9	64792.7	63941.5	65396.3	64693.7	63919.0	63779.4	62383.2	62824.6
45619.7	17.5°	45394.6	46489.0	46831.3	47664.5	47025.0	46565.6	45984.6	45561.2	45529.7
31937.0	20°	32189.2	33288.1	33540.4	34540.2	34468.2	34324.0	33833.1	33297.1	32716.1
21740.2	22.5°	22069.0	22965.3	23803.0	25149.6	25127.1	24703.8	24654.2	23897.6	23911.1
14687.1	25°	14840.3	15493.3	15691.5	17069.7	17222.8	17177.8	16921.1	16218.5	16484.2
8971.7	27.5°	8980.7	9552.7	10223.8	10710.2	11169.6	11097.5	10840.8	10449.0	10277.8
5391.1	30°	5535.3	5792.0	6039.7	6625.2	6899.9	7044.1	6922.5	6557.6	6584.7
3549.1	32.5°	3625.6	3841.8	4022.0	4391.3	4535.4	4801.1	4751.6	4675.0	4584.9
2553.7	35°	2643.8	2801.4	2923.0	3094.2	3278.8	3504.0	3540.0	3508.5	3472.5
1972.7	37.5°	2017.7	2179.9	2319.5	2391.6	2535.7	2711.3	2810.4	2805.9	2778.9
1607.9	40°	1639.4	1761.0	1887.1	1981.7	2080.8	2211.4	2333.0	2346.5	2346.5
1351.2	42.5°	1369.2	1472.8	1598.9	1698.0	1770.0	1891.6	2017.7	2026.7	2017.7
1144.0	45°	1171.0	1261.1	1382.7	1499.8	1558.3	1648.4	1770.0	1797.0	1779.0
981.8	47.5°	1017.9	1098.9	1202.5	1328.6	1391.7	1472.8	1585.4	1616.9	1612.4
846.7	50°	873.8	968.3	1071.9	1175.5	1256.6	1333.1	1441.2	1477.3	1463.8
720.6	52.5°	770.2	855.7	945.8	1058.4	1153.0	1220.6	1306.1	1369.2	1351.2
608.0	55°	644.1	747.6	842.2	936.8	1053.9	1126.0	1207.0	1283.6	1265.6
513.4	57.5°	558.5	644.1	752.1	837.7	954.8	1040.4	1121.5	1202.5	1198.0
418.9	60°	468.4	558.5	662.1	752.1	860.2	954.8	1035.9	1126.0	1135.0
315.3	62.5°	369.3	477.4	567.5	671.1	779.2	882.8	954.8	1044.9	1058.4
238.7	65°	279.2	391.8	490.9	590.0	698.1	810.7	873.8	950.3	963.8
175.7	67.5°	207.2	301.8	418.9	508.9	621.5	729.6	788.2	851.2	873.8
108.1	70°	157.6	229.7	351.3	436.9	554.0	639.6	702.6	756.7	774.7
72.1	72.5°	99.1	180.2	283.7	373.8	477.4	554.0	599.0	630.5	657.6
40.5	75°	67.6	139.6	229.7	319.8	396.3	454.9	495.4	522.4	545.0
18.0	77.5°	40.5	108.1	189.2	265.7	315.3	360.3	400.8	418.9	432.4
13.5	80°	22.5	81.1	157.6	216.2	247.7	279.2	310.8	333.3	342.3
9.0	82.5°	13.5	63.1	126.1	166.6	180.2	211.7	243.2	256.7	256.7
4.5	85°	9.0	45.0	85.6	121.6	130.6	153.1	162.1	171.1	180.2
4.5	87.5°	9.0	27.0	54.0	67.6	72.1	81.1	85.6	94.6	103.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
141313.6
136670.1
128027.2
114326.4
99499.6
81731.8
62383.2
44692.0
32463.9
23649.8
16065.3
10129.2
6467.6
4553.4
3459.0
2765.4
2319.5
2008.7
1779.0
1603.4
1454.8
1346.7
1274.6
1202.5
1139.5
1067.4
977.3
882.8
783.7
653.1
540.5
427.9
333.3
252.2
175.7
99.1
0.0

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