

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: P637225

Luminaire Tested: **IFLD-L-SA7E-827-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637225
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-827-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41268.5 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

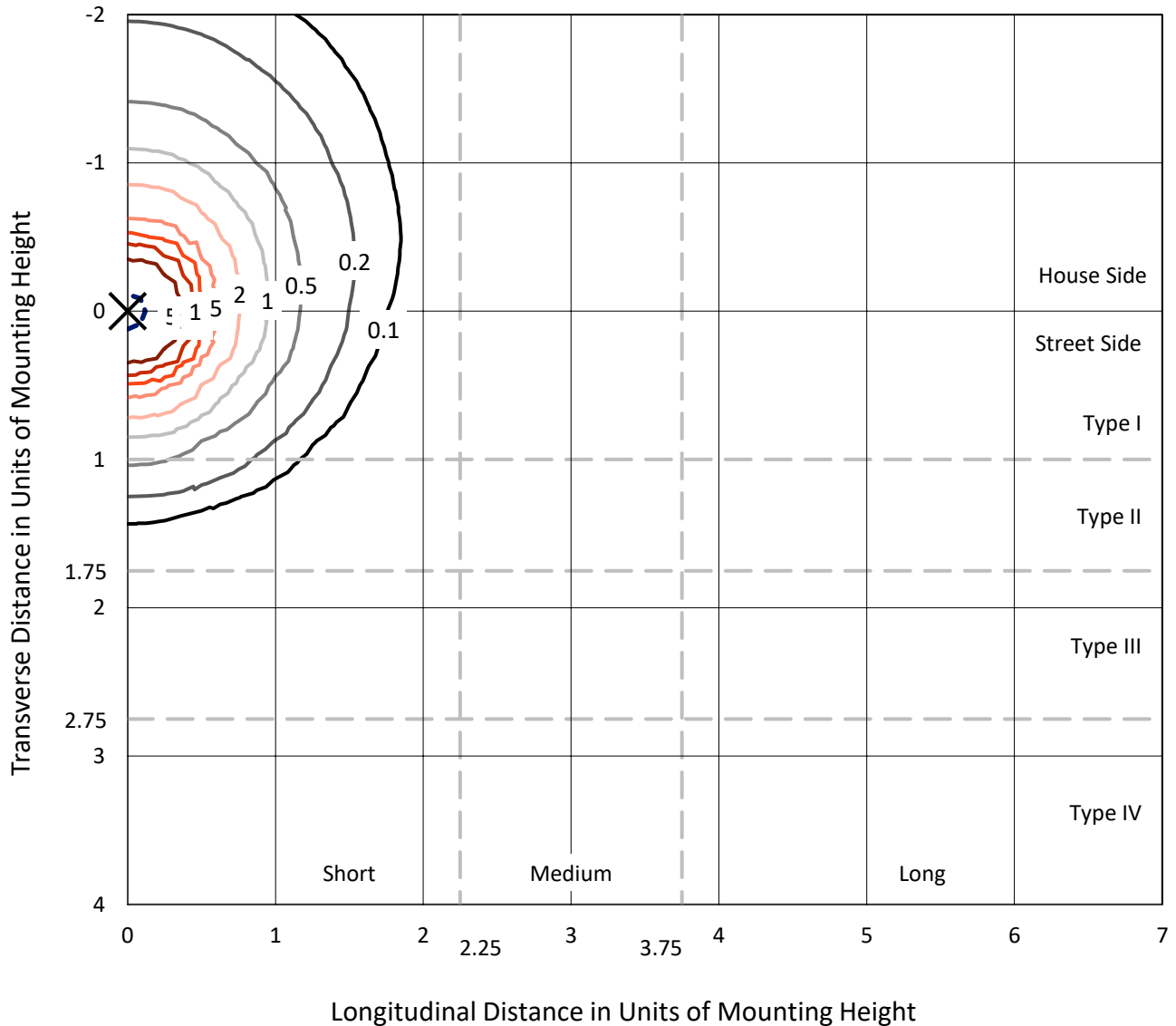
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

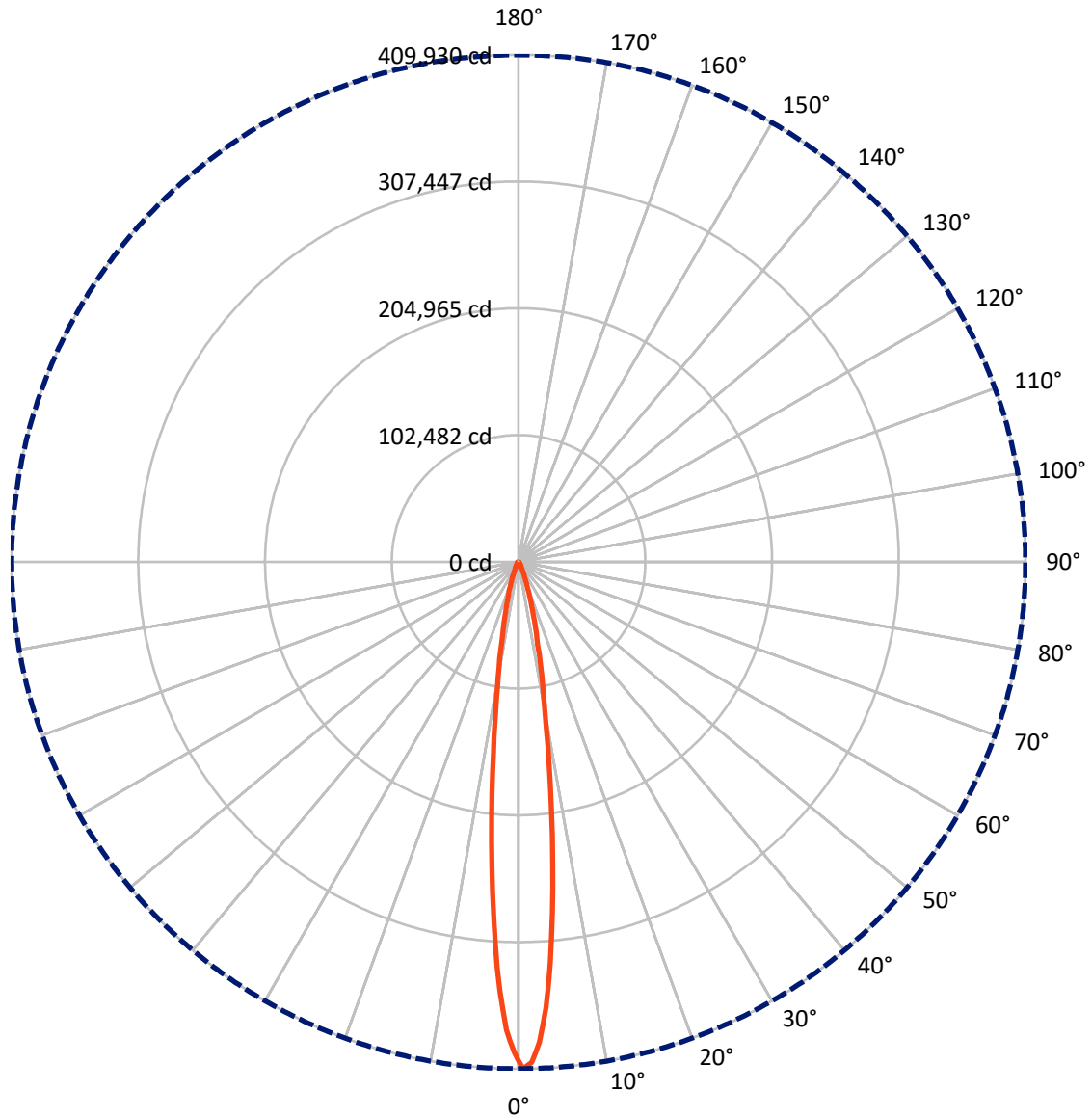
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1024.8 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	21136.9	0.0	21136.9
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	20131.5	0.0	20131.5
	% Fixture	48.8	0.0	48.8
Total	Lumens	41268.5	0.0	41268.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20833.6	50.5
10°-20°	13337.6	32.3
20°-30°	4009.0	9.7
30°-40°	1305.3	3.2
40°-50°	759.5	1.8
50°-60°	504.5	1.2
60°-70°	303.7	0.7
70°-80°	156.1	0.4
80°-90°	59.3	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°	41268.5	100.0
0°-180°	41268.5	100.0

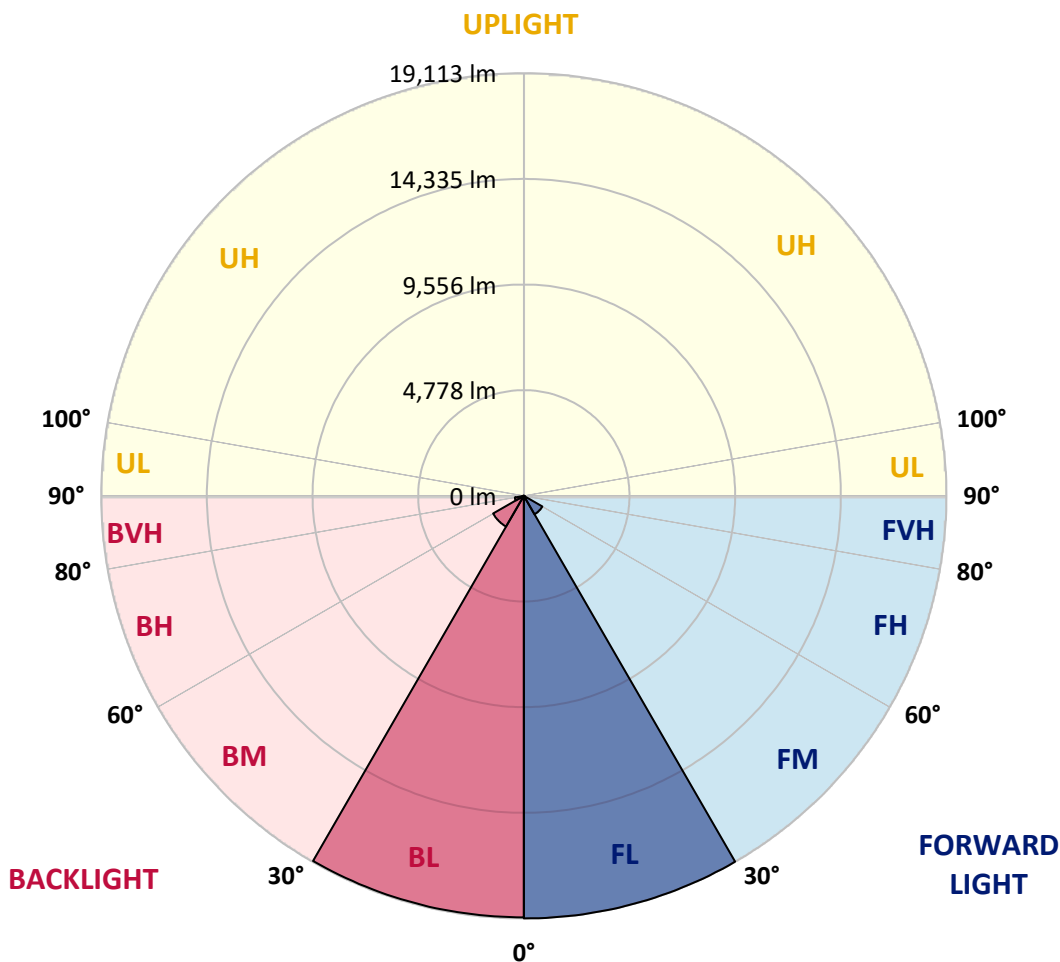


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	19112.7	46.3			
FM (30°-60°)	964.5	2.3			
FH (60°-80°)	45.4	0.1			G0/660
FVH (80°-90°)	9.0	0.0			G0/10
BL (0°-30°)	19067.4	46.2	B5		
BM (30°-60°)	1604.8	3.9	B2/2500		
BH (60°-80°)	414.3	1.0	B1/500		G0/660
BVH (80°-90°)	50.4	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°	409929.6	409929.6	409929.6	409929.6	409929.6	409929.6	409929.6	409929.6	409929.6	409929.6
1°	405021.3	403785.2	400593.9	402863.8	404859.5	404279.6	404239.2	404023.4	403722.3	406086.6
2°	388831.0	388031.0	383311.4	385257.7	388093.9	386026.3	387320.8	386183.6	386206.1	389028.8
3°	361538.7	361974.7	354445.9	357983.3	361925.2	356913.5	358468.7	361390.3	358329.4	357407.9
4°	326065.8	322281.1	318168.4	321764.2	322784.6	319867.4	322735.1	326313.0	322060.9	322249.7
5°	285567.7	282771.9	277904.0	280124.5	277593.9	278515.3	282812.4	284286.7	281320.1	277584.9
6°	243927.9	241941.2	235855.3	239055.6	238156.6	237635.2	243060.4	238565.6	240183.7	237922.9
7°	202899.4	199186.7	196197.7	199263.2	199460.9	197892.2	204935.6	204117.5	201173.4	200490.2
8°	168105.3	164401.5	161871.0	164154.3	165646.6	163183.5	166496.1	168671.6	166370.3	166577.0
9°	135585.4	134933.7	131414.3	134398.8	136021.4	133383.0	137050.7	137837.3	135684.3	136731.6
10°	111327.0	110567.4	107758.2	108967.3	111655.1	108508.8	112028.2	112284.4	110567.4	111057.3
12.5°	68797.3	68491.7	68415.2	68590.5	68554.6	69111.9	70010.9	68986.1	68851.2	67156.7
15°	44467.0	44921.0	44453.5	45352.5	45482.8	46008.7	45460.3	44633.3	43055.6	42273.5
17.5°	27750.9	28330.7	29130.8	30447.7	31764.7	31917.5	31189.4	30218.5	29454.4	28618.3
20°	15965.5	16248.7	16127.3	17705.0	21112.0	22038.0	21098.6	20078.2	19156.8	18311.8
22.5°	9920.0	9816.6	10005.4	10535.8	11646.0	14509.2	13740.6	12720.3	12050.5	11353.8
25°	6081.5	6193.8	6121.9	6414.1	6913.0	8126.6	8301.9	7861.4	7519.8	7160.2
27.5°	3915.0	3915.0	3946.4	4108.2	4449.8	4409.4	5344.3	5002.7	4818.4	4643.1
30°	2719.3	2728.3	2728.3	2822.7	2899.1	2764.3	3007.0	3447.5	3362.1	3227.3
32.5°	2018.2	2045.1	2067.6	2117.0	2054.1	1910.3	1968.7	2481.1	2431.7	2382.2
35°	1537.2	1559.7	1613.6	1640.6	1550.7	1460.8	1406.9	1824.9	1847.4	1833.9
37.5°	1119.2	1132.7	1231.6	1335.0	1231.6	1150.7	1119.2	1402.4	1510.3	1496.8
40°	858.5	863.0	881.0	997.8	997.8	934.9	943.9	1047.3	1236.1	1236.1
42.5°	737.1	737.1	755.1	737.1	741.6	809.1	831.5	845.0	1047.3	1047.3
45°	638.3	638.3	647.3	602.3	557.4	696.7	714.7	719.2	881.0	903.5
47.5°	534.9	534.9	552.9	494.4	472.0	552.9	602.3	615.8	759.6	777.6
50°	395.5	400.0	454.0	404.5	418.0	427.0	521.4	530.4	642.8	683.2
52.5°	265.2	265.2	274.2	314.6	364.1	350.6	422.5	454.0	512.4	566.3
55°	215.8	215.8	211.3	202.3	269.7	292.2	310.1	377.6	418.0	485.4
57.5°	148.3	157.3	143.8	166.3	175.3	220.2	233.7	296.7	319.1	409.0
60°	18.0	22.5	31.5	121.4	116.9	148.3	175.3	233.7	260.7	314.6
62.5°	4.5	4.5	9.0	22.5	80.9	98.9	139.3	161.8	188.8	242.7
65°	0.0	0.0	4.5	9.0	18.0	53.9	71.9	94.4	134.8	170.8
67.5°	0.0	0.0	4.5	9.0	9.0	22.5	36.0	58.4	71.9	125.9
70°	0.0	0.0	4.5	9.0	9.0	18.0	22.5	27.0	49.4	67.4
72.5°	0.0	0.0	4.5	9.0	13.5	18.0	22.5	22.5	22.5	44.9
75°	0.0	0.0	4.5	9.0	13.5	18.0	22.5	22.5	18.0	18.0
77.5°	0.0	0.0	4.5	9.0	18.0	22.5	27.0	22.5	13.5	13.5
80°	0.0	0.0	4.5	13.5	22.5	31.5	36.0	27.0	13.5	9.0
82.5°	0.0	0.0	9.0	18.0	27.0	36.0	49.4	40.5	18.0	9.0
85°	0.0	0.0	4.5	13.5	27.0	36.0	71.9	49.4	22.5	4.5
87.5°	0.0	0.0	0.0	4.5	4.5	9.0	27.0	18.0	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°
409929.6	0°	409929.6	409929.6	409929.6	409929.6	409929.6	409929.6	409929.6	409929.6
403358.2	1°	406176.4	406459.6	405533.7	406967.5	406464.1	403515.5	402540.2	401385.0
387370.2	2°	386183.6	387626.4	387698.4	389289.5	389267.0	385828.5	384763.3	386727.5
359277.8	3°	358190.0	359871.1	358356.3	361183.6	360334.1	356162.9	355079.6	357309.1
323741.9	4°	322775.6	322456.4	321935.0	320325.9	322308.1	319462.9	317318.9	320343.9
282538.2	5°	281971.8	281261.7	280245.8	279769.4	281243.7	279423.3	275013.9	279432.3
242013.1	6°	242309.8	239253.3	239105.0	238839.8	238988.1	233891.0	234196.7	237486.9
198139.5	7°	200234.0	200795.9	199649.7	201488.1	200085.7	196633.7	195303.2	198768.7
167485.0	8°	166316.3	165606.1	164729.7	167476.0	165044.3	162778.9	161228.2	163965.5
136902.4	9°	136646.2	135419.1	134529.1	134389.8	134767.4	130515.3	131378.3	133450.4
111327.0	10°	111367.5	109353.8	109843.7	109974.1	109560.6	106773.8	106800.8	107515.4
68280.4	12.5°	68037.7	67048.8	67296.0	67430.9	68271.4	67291.5	65907.1	64909.3
43051.1	15°	42763.5	42053.3	43505.1	44480.5	44282.7	43410.7	42759.0	41855.5
28618.3	17.5°	28353.2	29283.6	29288.1	30178.0	30267.9	29395.9	28892.5	28079.0
18612.9	20°	18545.5	18932.1	19736.6	20365.9	20730.0	20064.8	19462.5	18905.1
11605.6	22.5°	11605.6	12279.8	12783.2	13601.2	13933.9	13448.4	13021.4	12567.4
7245.6	25°	7124.2	7605.2	8023.2	8733.4	9187.4	8953.6	8562.6	8243.4
4679.1	27.5°	4751.0	4953.3	5160.0	5650.0	6121.9	5991.6	5834.2	5641.0
3299.2	30°	3348.6	3366.6	3586.8	3861.0	4175.7	4256.6	4184.7	4085.8
2422.7	32.5°	2467.6	2539.6	2642.9	2813.7	3025.0	3218.3	3182.3	3137.4
1851.9	35°	1905.8	2013.7	2099.1	2229.4	2341.8	2526.1	2557.5	2544.1
1523.7	37.5°	1555.2	1649.6	1735.0	1811.4	1905.8	2031.6	2130.5	2135.0
1258.5	40°	1290.0	1375.4	1487.8	1546.2	1613.6	1708.0	1829.4	1838.4
1065.3	42.5°	1087.7	1168.6	1281.0	1352.9	1402.4	1492.3	1613.6	1631.6
912.4	45°	934.9	984.4	1101.2	1186.6	1236.1	1294.5	1424.8	1442.8
786.6	47.5°	813.6	863.0	934.9	1056.3	1101.2	1155.2	1258.5	1290.0
696.7	50°	714.7	764.1	827.0	934.9	1002.3	1047.3	1132.7	1177.6
606.8	52.5°	633.8	683.2	750.6	836.0	912.4	952.9	1033.8	1092.2
494.4	55°	530.4	615.8	665.2	741.6	845.0	881.0	943.9	1020.3
431.5	57.5°	463.0	534.9	606.8	669.7	773.1	818.1	881.0	952.9
341.6	60°	391.0	458.5	543.9	597.8	696.7	755.1	822.5	890.0
260.7	62.5°	310.1	400.0	458.5	534.9	629.3	705.7	759.6	827.0
202.3	65°	229.2	328.1	395.5	476.4	566.3	647.3	692.2	764.1
143.8	67.5°	166.3	256.2	337.1	413.5	498.9	579.8	624.8	687.7
89.9	70°	130.3	188.8	278.7	346.1	436.0	503.4	552.9	593.3
58.4	72.5°	76.4	143.8	224.7	301.2	382.1	427.0	463.0	498.9
27.0	75°	49.4	112.4	184.3	251.7	310.1	350.6	382.1	413.5
13.5	77.5°	31.5	80.9	148.3	211.3	238.2	287.7	314.6	332.6
9.0	80°	18.0	62.9	130.3	170.8	193.3	224.7	251.7	274.2
9.0	82.5°	13.5	53.9	107.9	143.8	143.8	179.8	193.3	193.3
4.5	85°	9.0	44.9	85.4	134.8	107.9	134.8	125.9	125.9
4.5	87.5°	9.0	31.5	40.5	58.4	49.4	58.4	58.4	67.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
409929.6
396809.3
378407.6
347407.0
309394.6
267790.8
227948.9
189343.1
156149.1
126977.9
102652.1
64302.5
41392.5
27876.7
18711.8
12324.7
8059.2
5528.6
4018.3
3101.4
2499.1
2103.6
1824.9
1618.1
1438.3
1294.5
1182.1
1092.2
1024.8
957.4
907.9
858.5
777.6
692.2
606.8
507.9
413.5
323.6
247.2
179.8
121.4
67.4
0.0

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