

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: P637857

Luminaire Tested: **IFLD-M-SA4D-730-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637857
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-730-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24020.7 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

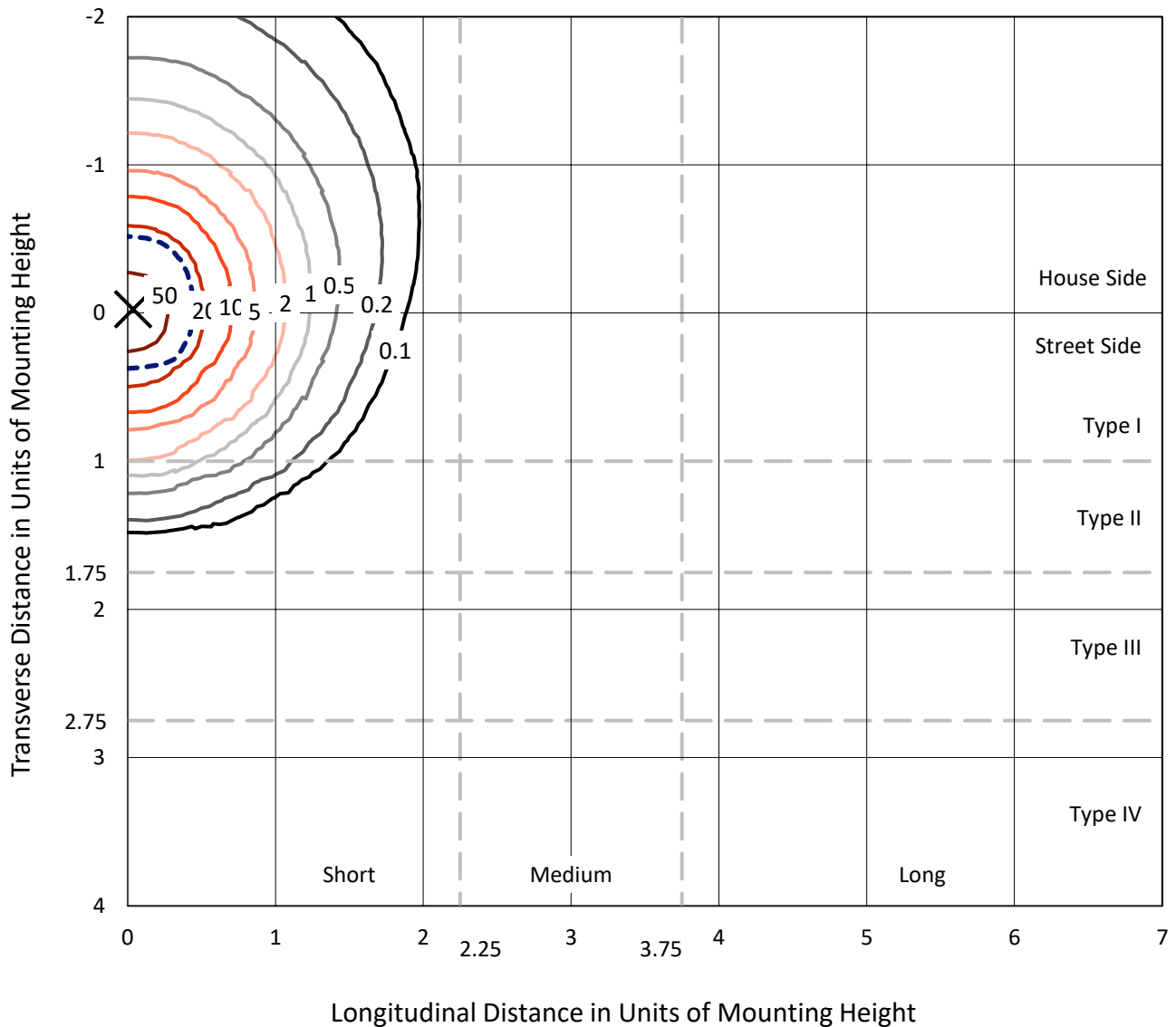
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

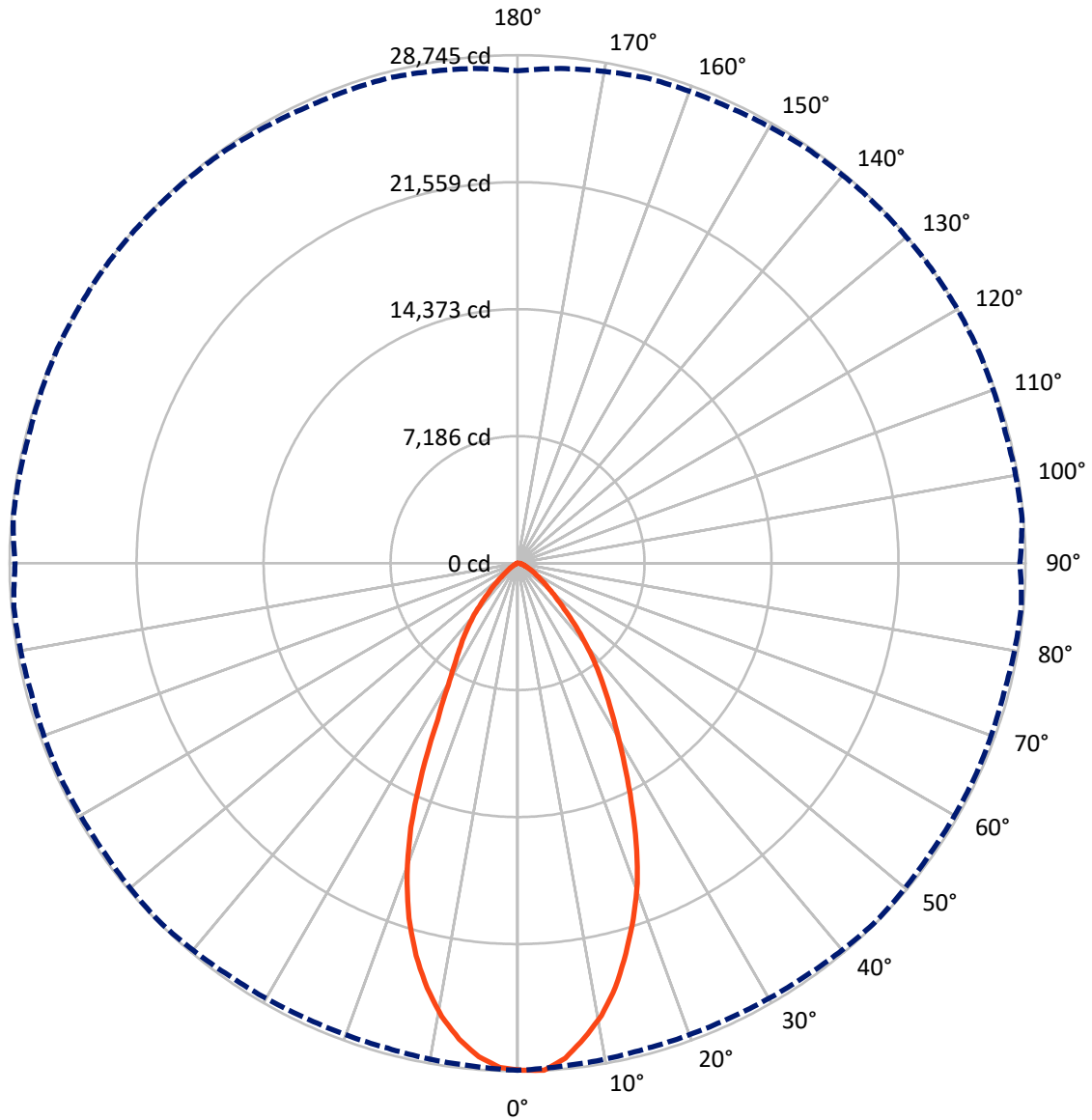
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 71.7 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	13630.3	0.0	13630.3
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	10390.4	0.0	10390.4
	% Fixture	43.3	0.0	43.3
Total	Lumens	24020.7	0.0	24020.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2606.0	10.8
10°-20°	6212.1	25.9
20°-30°	6326.9	26.3
30°-40°	4717.9	19.6
40°-50°	2464.8	10.3
50°-60°	1036.7	4.3
60°-70°	423.4	1.8
70°-80°	178.2	0.7
80°-90°	54.9	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°	24020.7	100.0
0°-180°	24020.7	100.0



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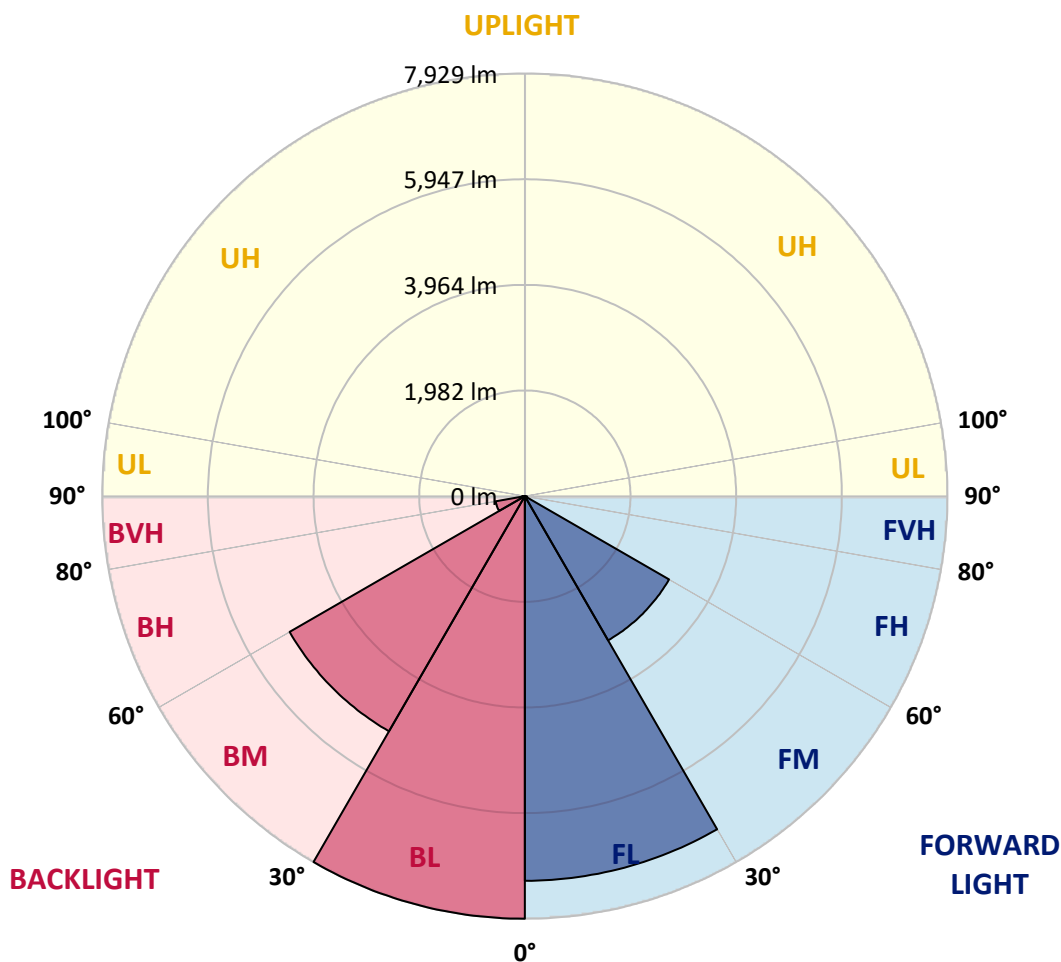
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7216.1	30.0			
FM (30°-60°)	3124.0	13.0			
FH (60°-80°)	45.2	0.2			G0/660
FVH (80°-90°)	5.1	0.0			G0/10
BL (0°-30°)	7928.8	33.0	B5		
BM (30°-60°)	5095.4	21.2	B4/8500		
BH (60°-80°)	556.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	49.8	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°	28698.9	28698.9	28698.9	28698.9	28698.9	28698.9	28698.9	28698.9	28698.9	28698.9
2.5°	28702.0	28584.8	28418.1	28402.7	28489.1	28677.3	28557.0	28563.2	28489.1	28615.6
5°	28251.5	28140.4	28026.3	27875.1	28001.6	28081.8	28020.1	27952.2	27856.6	27980.0
7.5°	27399.9	27338.2	27168.5	27100.6	27177.7	27267.2	27134.5	27116.0	26983.4	27143.8
10°	26097.8	26073.1	25906.5	25866.4	25934.3	26070.0	26011.4	25999.1	25915.7	25900.3
12.5°	24746.3	24650.7	24443.9	24431.6	24533.4	24737.1	24579.7	24428.5	24474.8	24514.9
15°	21265.8	21164.0	21676.2	22481.5	22904.2	22888.8	22935.1	22753.0	22697.5	22716.0
17.5°	16905.9	16733.1	16918.2	18164.8	20173.5	21339.8	21018.9	20627.1	20417.3	20278.4
20°	14591.7	14600.9	14567.0	14887.9	16140.6	18800.4	18723.3	17967.3	17692.7	17578.5
22.5°	13184.7	13132.2	13058.2	13160.0	13496.3	15057.6	16103.6	15409.4	15313.7	15187.2
25°	11805.4	11805.4	11715.9	11817.8	11913.4	11935.0	12984.1	13268.0	13082.8	13082.8
27.5°	10611.3	10549.6	10509.5	10555.8	10429.2	9821.4	9954.1	11407.4	11280.9	11203.7
30°	9426.4	9407.9	9340.0	9401.7	8932.7	8247.7	7970.0	9627.0	9759.7	9731.9
32.5°	7781.8	7855.9	8158.3	8253.9	7451.7	6899.3	6634.0	7991.6	8522.4	8500.8
35°	5288.7	5350.4	5696.0	6837.6	6177.3	5782.4	5705.2	6356.3	7229.5	7312.8
37.5°	4211.8	4202.6	4301.3	4504.9	4964.7	4869.0	4847.4	5017.1	5896.5	5933.6
40°	3471.3	3458.9	3455.8	3289.2	3175.1	4048.3	3989.6	3887.8	4650.0	4724.0
42.5°	2798.6	2811.0	2820.2	2456.1	2289.5	3122.6	3088.7	2983.8	3647.1	3733.5
45°	2196.9	2193.8	2212.4	1829.7	1783.5	1996.4	2308.0	2224.7	2752.3	2844.9
47.5°	1138.6	1178.7	1428.6	1416.3	1437.9	1416.3	1746.4	1724.8	2070.4	2218.5
50°	765.2	777.6	799.2	802.2	1132.4	1042.9	1184.9	1342.2	1450.2	1678.6
52.5°	592.4	601.7	546.1	512.2	694.3	771.4	777.6	928.8	1012.1	1243.5
55°	330.2	370.3	398.0	401.1	382.6	570.8	567.7	688.1	752.9	907.2
57.5°	43.2	52.5	80.2	259.2	256.1	317.8	398.0	499.9	536.9	663.4
60°	3.1	6.2	9.3	40.1	169.7	185.1	271.5	311.6	373.4	465.9
62.5°	0.0	0.0	3.1	9.3	33.9	108.0	141.9	163.5	219.1	305.5
65°	0.0	0.0	3.1	6.2	12.3	40.1	55.5	89.5	129.6	188.2
67.5°	0.0	0.0	3.1	6.2	9.3	15.4	24.7	40.1	67.9	114.2
70°	0.0	0.0	3.1	6.2	9.3	12.3	18.5	24.7	37.0	61.7
72.5°	0.0	0.0	3.1	3.1	6.2	15.4	15.4	18.5	24.7	33.9
75°	0.0	0.0	3.1	6.2	9.3	15.4	15.4	15.4	18.5	21.6
77.5°	0.0	0.0	3.1	6.2	9.3	15.4	12.3	15.4	15.4	15.4
80°	0.0	0.0	3.1	6.2	9.3	15.4	18.5	15.4	12.3	12.3
82.5°	0.0	0.0	3.1	9.3	9.3	21.6	21.6	21.6	9.3	9.3
85°	0.0	0.0	6.2	9.3	15.4	24.7	24.7	18.5	9.3	6.2
87.5°	0.0	0.0	3.1	6.2	6.2	12.3	18.5	15.4	6.2	3.1
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°
28698.9	0°	28698.9	28698.9	28698.9	28698.9	28698.9	28698.9	28698.9	28698.9	28698.9
28430.5	2.5°	28658.8	28581.7	28726.7	28745.2	28683.5	28606.4	28427.4	28412.0	28100.3
27801.0	5°	28115.8	27989.3	28081.8	28143.5	28121.9	28038.6	27964.6	27896.7	27615.9
26779.7	7.5°	27103.7	27057.4	27100.6	27146.9	27236.4	27146.9	27116.0	27045.1	26767.4
25773.8	10°	25980.5	25894.1	26057.7	26036.1	26011.4	25986.7	25857.1	25869.5	25542.4
24403.8	12.5°	24601.3	24456.3	24613.6	24632.1	24613.6	24527.2	24382.2	24443.9	24144.6
22552.5	15°	22746.9	22731.4	22845.6	22919.7	22972.1	22879.5	22830.2	22861.0	22682.1
20170.4	17.5°	20469.7	20670.3	21043.6	21170.1	21173.2	21268.9	21241.1	21204.1	21071.4
17532.2	20°	17791.4	18177.1	18751.0	19340.4	19510.1	19429.9	19392.8	19460.7	19263.2
15054.5	22.5°	15319.9	15650.0	16316.5	17177.4	17674.2	17723.5	17714.3	17655.7	17578.5
13070.5	25°	13221.7	13514.8	14153.5	14940.4	15893.8	16035.7	16041.9	16023.4	15955.5
11271.6	27.5°	11450.6	11805.4	12157.2	12860.7	13875.8	14462.1	14388.0	14366.4	14341.8
9753.5	30°	9846.1	10293.5	10623.6	11061.8	11972.0	12765.0	12842.2	12805.1	12746.5
8497.7	32.5°	8574.8	8840.2	9259.8	9556.0	10210.2	11108.1	11404.3	11376.5	11324.1
7365.3	35°	7470.2	7575.1	7905.2	8235.4	8670.5	9540.6	9978.7	9917.0	9907.8
6001.4	37.5°	6152.6	6504.4	6686.4	7019.7	7325.2	8000.9	8605.7	8577.9	8581.0
4825.8	40°	4967.8	5171.4	5532.4	5813.2	6094.0	6587.7	7260.4	7278.9	7272.7
3736.6	42.5°	3813.8	4011.2	4390.8	4696.2	4946.2	5251.6	5893.4	5915.0	5942.8
2909.7	45°	2977.6	3104.1	3381.8	3699.6	3965.0	4150.1	4637.6	4776.5	4779.6
2255.6	47.5°	2311.1	2456.1	2653.6	2959.1	3218.3	3350.9	3705.8	3894.0	3884.7
1731.0	50°	1814.3	1947.0	2107.4	2348.1	2628.9	2733.8	2996.1	3181.2	3172.0
1305.2	52.5°	1388.5	1558.2	1700.2	1885.3	2159.9	2249.4	2437.6	2650.5	2619.7
956.5	55°	1052.2	1225.0	1357.7	1511.9	1761.9	1876.0	2005.6	2175.3	2181.5
740.5	57.5°	793.0	972.0	1092.3	1249.7	1437.9	1564.4	1663.1	1845.2	1842.1
506.0	60°	567.7	722.0	867.0	1030.6	1175.6	1320.6	1388.5	1561.3	1567.5
357.9	62.5°	410.4	555.4	694.3	836.2	965.8	1107.7	1169.4	1305.2	1323.7
234.5	65°	287.0	388.8	549.2	657.2	802.2	907.2	987.4	1104.6	1126.2
138.9	67.5°	185.1	280.8	435.1	530.7	663.4	752.9	836.2	928.8	956.5
89.5	70°	111.1	212.9	324.0	425.8	546.1	626.4	706.6	786.8	802.2
43.2	72.5°	71.0	148.1	234.5	345.6	438.2	524.5	595.5	654.1	607.9
27.8	75°	40.1	101.8	185.1	271.5	354.8	438.2	496.8	527.6	422.7
18.5	77.5°	24.7	74.1	151.2	219.1	274.6	351.8	388.8	407.3	302.4
12.3	80°	15.4	55.5	126.5	179.0	179.0	259.2	302.4	317.8	219.1
9.3	82.5°	12.3	40.1	98.7	135.8	120.3	194.4	237.6	240.7	154.3
6.2	85°	9.3	30.9	61.7	89.5	83.3	135.8	138.9	154.3	101.8
6.2	87.5°	6.2	18.5	37.0	52.5	46.3	64.8	74.1	83.3	55.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
28698.9
27856.6
27390.6
26708.7
25431.3
24058.2
22466.1
20873.9
19121.3
17430.4
15727.2
14196.7
12672.5
11185.2
9806.0
8482.2
7164.7
5850.3
4699.3
3850.8
3172.0
2622.7
2181.5
1835.9
1552.0
1317.5
1120.1
953.4
789.9
564.7
401.1
283.9
203.6
141.9
92.6
49.4
0.0

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