

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: P638442

Luminaire Tested: **IFLD-L-SA7D-740-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638442
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-740-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35952 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

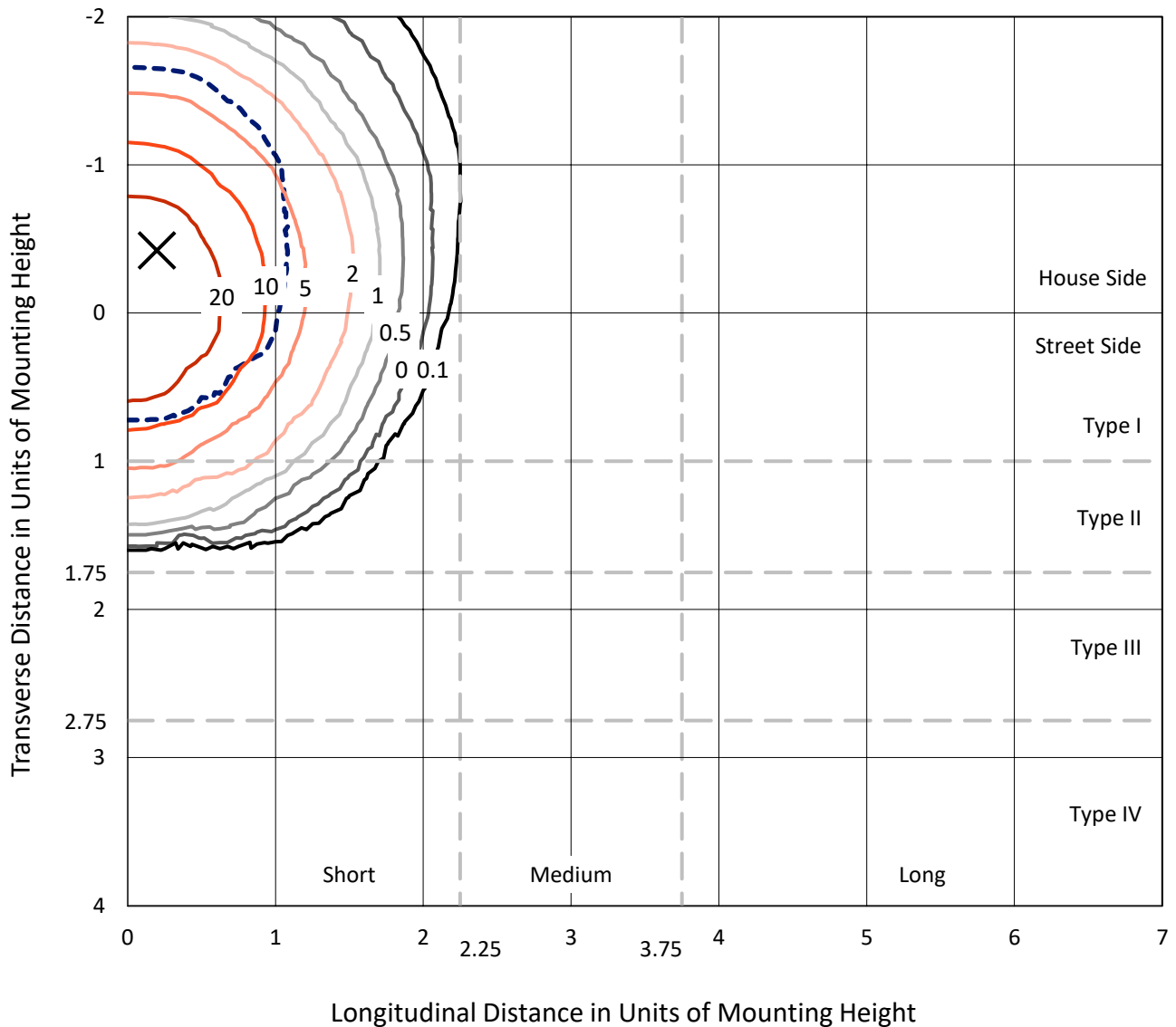
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

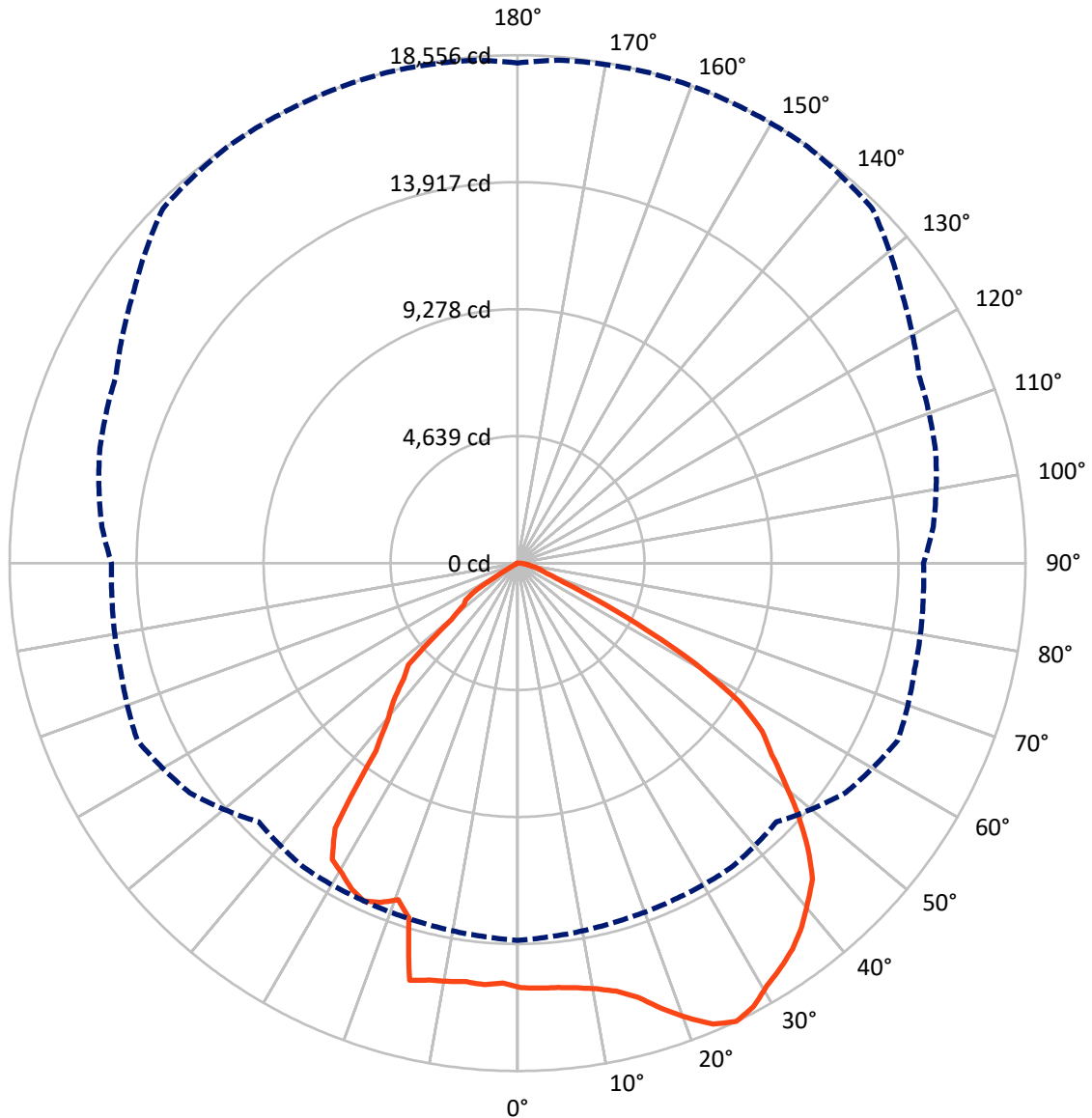
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 38.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22257.9	0.0	22257.9
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	13694.0	0.0	13694.0
	% Fixture	38.1	0.0	38.1
Total	Lumens	35952.0	0.0	35952.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1488.2	4.1
10°-20°	4544.2	12.6
20°-30°	7184.2	20.0
30°-40°	8115.2	22.6
40°-50°	7600.0	21.1
50°-60°	5239.7	14.6
60°-70°	1407.7	3.9
70°-80°	293.4	0.8
80°-90°	79.4	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°	35952.0	100.0
0°-180°	35952.0	100.0



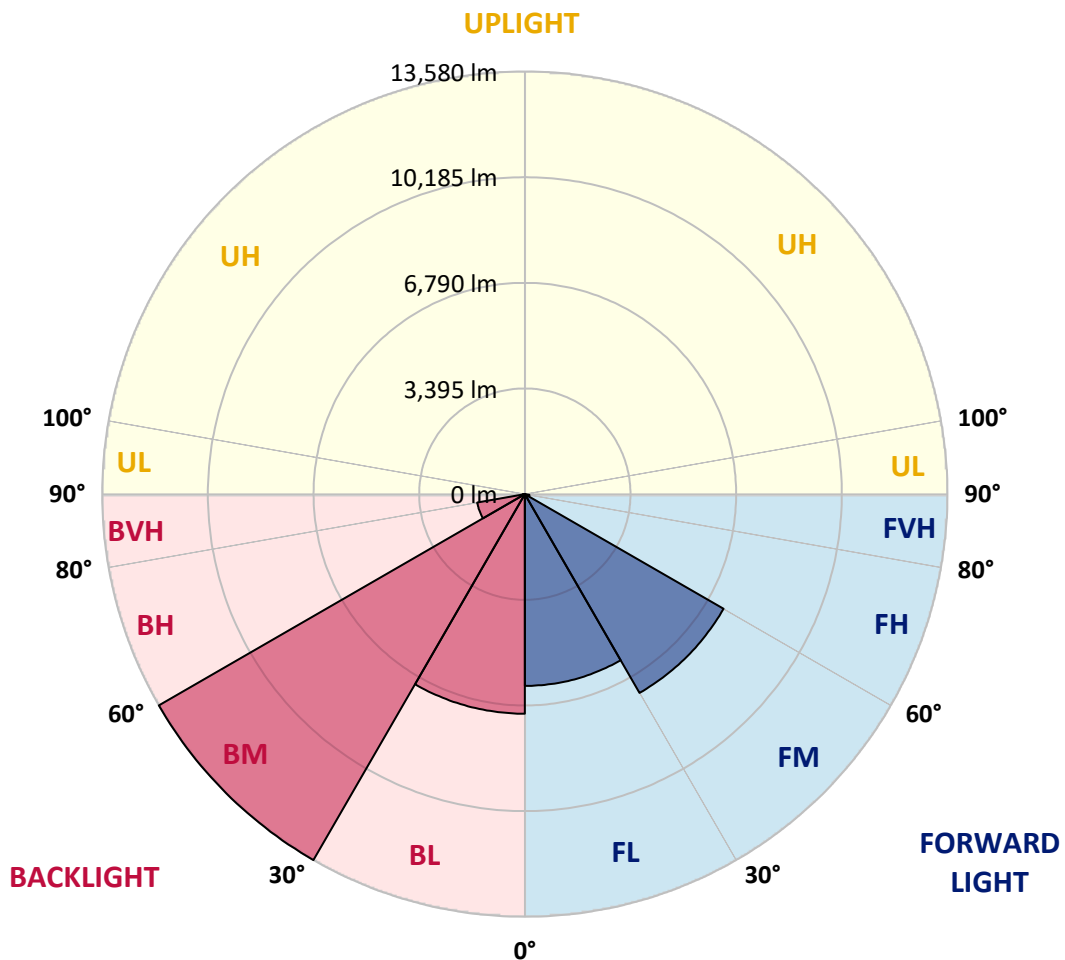
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6161.0	17.1			
FM (30°-60°)	7374.6	20.5			
FH (60°-80°)	147.8	0.4			G0/660
FVH (80°-90°)	10.6	0.0			G1/100
BL (0°-30°)	7055.6	19.6	B5		
BM (30°-60°)	13580.3	37.8	B5		
BH (60°-80°)	1553.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	68.7	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-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15512.6	15512.6	15512.6	15512.6	15512.6	15512.6	15512.6	15512.6	15512.6	15512.6
2.5°	15581.3	15480.9	15385.8	15354.1	15486.2	15628.9	15539.0	15544.3	15512.6	15570.8
5°	15697.6	15560.2	15496.8	15449.2	15470.4	15618.3	15491.5	15539.0	15486.2	15554.9
7.5°	15655.3	15560.2	15496.8	15407.0	15475.6	15650.0	15528.5	15533.8	15507.3	15570.8
10°	15628.9	15560.2	15480.9	15491.5	15570.8	15718.7	15623.6	15676.4	15639.4	15676.4
12.5°	15692.3	15618.3	15576.0	15576.0	15644.7	15813.8	15766.2	15813.8	15797.9	15829.6
15°	15095.2	15163.9	15565.5	15745.1	15882.5	16051.6	16030.4	16078.0	16088.5	16136.1
17.5°	12733.5	12664.8	12633.1	13557.7	16014.6	16537.6	16521.8	16516.5	16463.7	16426.7
20°	13045.2	13018.8	12981.8	13050.5	13325.2	16791.3	16896.9	16247.1	16056.8	16041.0
22.5°	13541.9	13499.6	13362.2	13367.5	13452.0	14598.6	16373.9	15782.1	15718.7	15681.7
25°	13784.9	13700.4	13589.4	13557.7	13584.1	13372.8	14625.0	15327.7	15016.0	14873.3
27.5°	13356.9	13362.2	13272.4	13356.9	13256.5	12305.5	11771.8	14440.1	14429.5	14366.1
30°	13034.6	13018.8	12913.1	13018.8	12326.6	11264.6	11037.4	13467.9	13356.9	13272.4
32.5°	12046.6	12057.2	12363.6	12775.7	11639.8	10799.7	10112.8	12030.7	13082.2	13034.6
35°	8617.5	8638.7	9727.1	11761.3	10598.9	9875.0	9822.2	10398.1	12648.9	12670.1
37.5°	8295.2	8295.2	8268.8	8601.7	9779.9	9499.9	9605.6	9547.5	11586.9	11639.8
40°	8062.8	8015.2	7978.2	7455.2	6800.0	9235.7	9309.7	9045.5	10952.9	10963.5
42.5°	7782.7	7729.9	7740.5	6773.6	6086.7	8580.6	8374.5	8020.5	9896.2	9906.7
45°	7270.2	7360.0	7423.4	5928.2	5875.4	6129.0	7724.6	7502.7	9182.9	9378.4
47.5°	3698.5	3777.8	5796.1	5452.7	5574.2	5447.4	6525.2	6530.5	7640.1	8290.0
50°	3355.1	3333.9	3339.2	3180.7	5146.2	4406.5	4718.2	5986.3	6118.4	7048.3
52.5°	3127.9	3122.6	2800.3	2488.6	3233.6	3878.2	3423.8	4332.5	4549.2	5970.5
55°	2314.2	2483.3	2208.5	2340.6	2023.6	3106.8	3090.9	3909.9	3983.8	4786.9
57.5°	21.1	26.4	63.4	1780.6	1400.2	1553.4	2134.6	2668.2	2800.3	3730.2
60°	5.3	10.6	26.4	52.8	908.8	956.3	1426.6	1542.8	1738.3	2224.4
62.5°	0.0	0.0	10.6	26.4	47.6	391.0	454.4	496.7	766.1	1136.0
65°	0.0	0.0	5.3	15.9	26.4	63.4	111.0	232.5	332.9	412.1
67.5°	0.0	0.0	5.3	10.6	21.1	31.7	63.4	89.8	142.7	243.0
70°	0.0	0.0	5.3	10.6	15.9	26.4	42.3	63.4	84.5	121.5
72.5°	0.0	0.0	5.3	10.6	10.6	31.7	31.7	47.6	63.4	79.3
75°	0.0	0.0	5.3	5.3	10.6	21.1	31.7	37.0	42.3	63.4
77.5°	0.0	0.0	5.3	10.6	15.9	21.1	26.4	42.3	37.0	37.0
80°	0.0	0.0	5.3	15.9	15.9	26.4	31.7	42.3	26.4	26.4
82.5°	0.0	0.0	5.3	21.1	15.9	52.8	52.8	58.1	21.1	21.1
85°	0.0	0.0	15.9	10.6	31.7	52.8	47.6	31.7	26.4	15.9
87.5°	0.0	0.0	5.3	5.3	10.6	15.9	37.0	31.7	10.6	10.6
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°
15512.6	0°	15512.6	15512.6	15512.6	15512.6	15512.6	15512.6	15512.6	15512.6	15512.6
15417.5	2.5°	15628.9	15560.2	15702.8	15687.0	15618.3	15586.6	15549.6	15517.9	15285.4
15428.1	5°	15634.2	15528.5	15702.8	15671.1	15660.6	15607.7	15576.0	15623.6	15412.2
15470.4	7.5°	15634.2	15528.5	15718.7	15729.3	15713.4	15671.1	15665.9	15697.6	15523.2
15544.3	10°	15739.8	15697.6	15856.1	15871.9	15850.8	15840.2	15813.8	15792.7	15607.7
15797.9	12.5°	15961.7	15877.2	16056.8	16104.4	16088.5	16115.0	16051.6	16083.3	15893.0
16056.8	15°	16231.2	16236.5	16373.9	16479.5	16469.0	16553.5	16458.4	16542.9	16405.6
16352.7	17.5°	16643.3	16701.4	16896.9	17055.4	17113.6	17177.0	17113.6	17140.0	16944.5
16025.1	20°	16210.1	16426.7	17367.2	17657.8	17779.3	17837.4	17731.7	17763.4	17567.9
15623.6	22.5°	15819.1	16099.1	16933.9	17842.7	18217.8	18334.1	18297.1	18291.8	18217.8
14831.0	25°	15243.2	15808.5	16183.6	17145.3	18323.5	18534.8	18556.0	18550.7	18439.7
14345.0	27.5°	14535.2	14662.0	15634.2	16220.6	17583.8	18386.9	18355.2	18202.0	18054.0
13335.8	30°	13631.7	14207.6	14646.1	15581.3	16627.5	17932.5	17932.5	17816.3	17663.1
12976.5	32.5°	13172.0	13917.0	14323.8	14662.0	15554.9	17425.3	17636.6	17515.1	17393.6
12696.5	35°	12929.0	13039.9	13991.0	14297.4	15053.0	16447.8	17303.8	17182.2	17092.4
11951.5	37.5°	12395.3	12654.2	13098.0	13917.0	14149.5	15650.0	16859.9	16796.5	16690.9
10984.6	40°	11206.5	11898.7	12580.2	13356.9	13600.0	14625.0	16321.0	16347.4	16204.8
9954.3	42.5°	10503.8	10974.0	12041.3	12564.4	13219.6	13964.5	15797.9	15840.2	15739.8
9431.2	45°	9679.5	10202.6	10952.9	11903.9	12796.9	13055.8	14873.3	15317.1	15232.6
8390.3	47.5°	8924.0	9346.7	10266.0	11227.6	12215.7	12178.7	13811.3	14646.1	14529.9
7592.5	50°	7851.4	8591.1	9024.4	9906.7	11380.9	11481.2	12680.6	13858.9	13763.8
6451.3	52.5°	6620.3	7550.3	8379.8	9188.2	10535.5	10773.2	11629.2	13055.8	12992.4
4929.6	55°	5785.5	6461.8	7397.0	8046.9	9510.5	10144.5	10841.9	12289.6	12257.9
4052.5	57.5°	4115.9	5421.0	6192.4	7101.1	7872.6	9019.1	9536.9	10731.0	10435.1
2245.5	60°	2789.7	3402.6	4343.1	5320.6	5838.4	6984.9	7465.7	8422.0	8342.8
1342.0	62.5°	1474.1	2039.5	2710.5	3201.9	3577.0	4691.8	4892.6	5922.9	5896.5
538.9	65°	649.9	861.2	1468.8	1722.5	2108.2	2625.9	2800.3	3170.2	3080.3
264.2	67.5°	338.1	512.5	829.5	1019.7	1283.9	1479.4	1622.1	1738.3	1812.3
174.4	70°	206.1	375.1	512.5	708.0	882.4	1040.9	1151.8	1310.3	1405.4
89.8	72.5°	153.2	237.8	354.0	544.2	639.3	824.2	935.2	1051.4	1136.0
74.0	75°	84.5	158.5	285.3	428.0	512.5	671.0	771.4	850.7	877.1
42.3	77.5°	52.8	121.5	237.8	332.9	401.6	544.2	517.8	591.8	655.2
31.7	80°	37.0	89.8	184.9	274.7	280.0	348.7	412.1	475.5	517.8
21.1	82.5°	26.4	74.0	137.4	211.3	184.9	269.5	322.3	369.9	269.5
15.9	85°	21.1	52.8	68.7	126.8	105.7	190.2	163.8	158.5	105.7
10.6	87.5°	15.9	26.4	47.6	58.1	42.3	42.3	52.8	63.4	52.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
15512.6
15126.9
15232.6
15322.4
15454.5
15724.0
16178.4
16775.4
17430.6
17980.1
18270.7
17937.8
17604.9
17293.2
16965.6
16585.2
16173.1
15729.3
15243.2
14614.4
13779.6
13034.6
12294.9
10403.4
8348.1
5901.8
3043.3
1812.3
1410.7
1151.8
861.2
665.7
523.1
195.5
105.7
52.8
0.0

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