

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: P638169

Luminaire Tested: **IFLD-S-SA6B-740-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638169
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-740-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25675.1 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

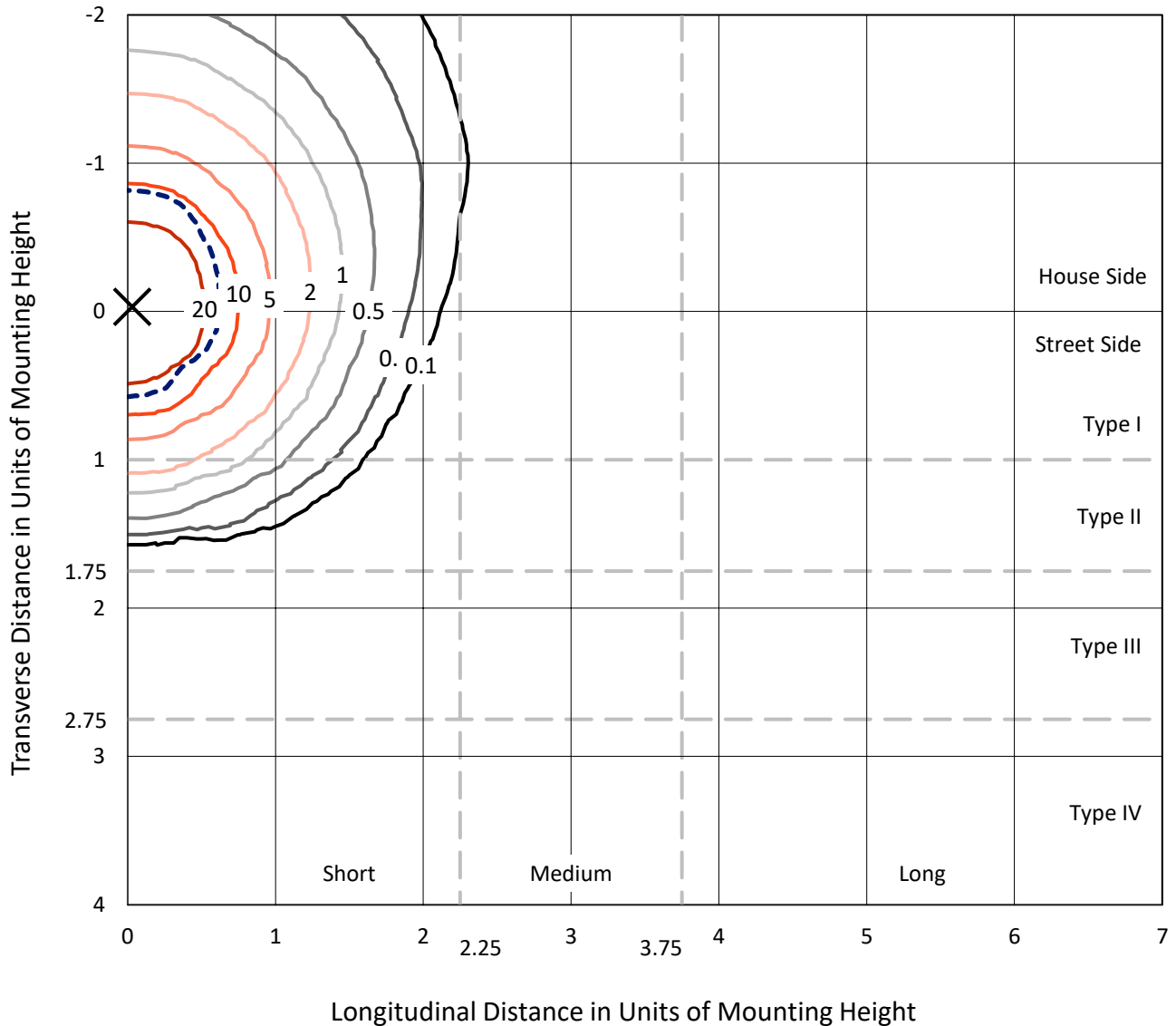
Input Watts (W): 244.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

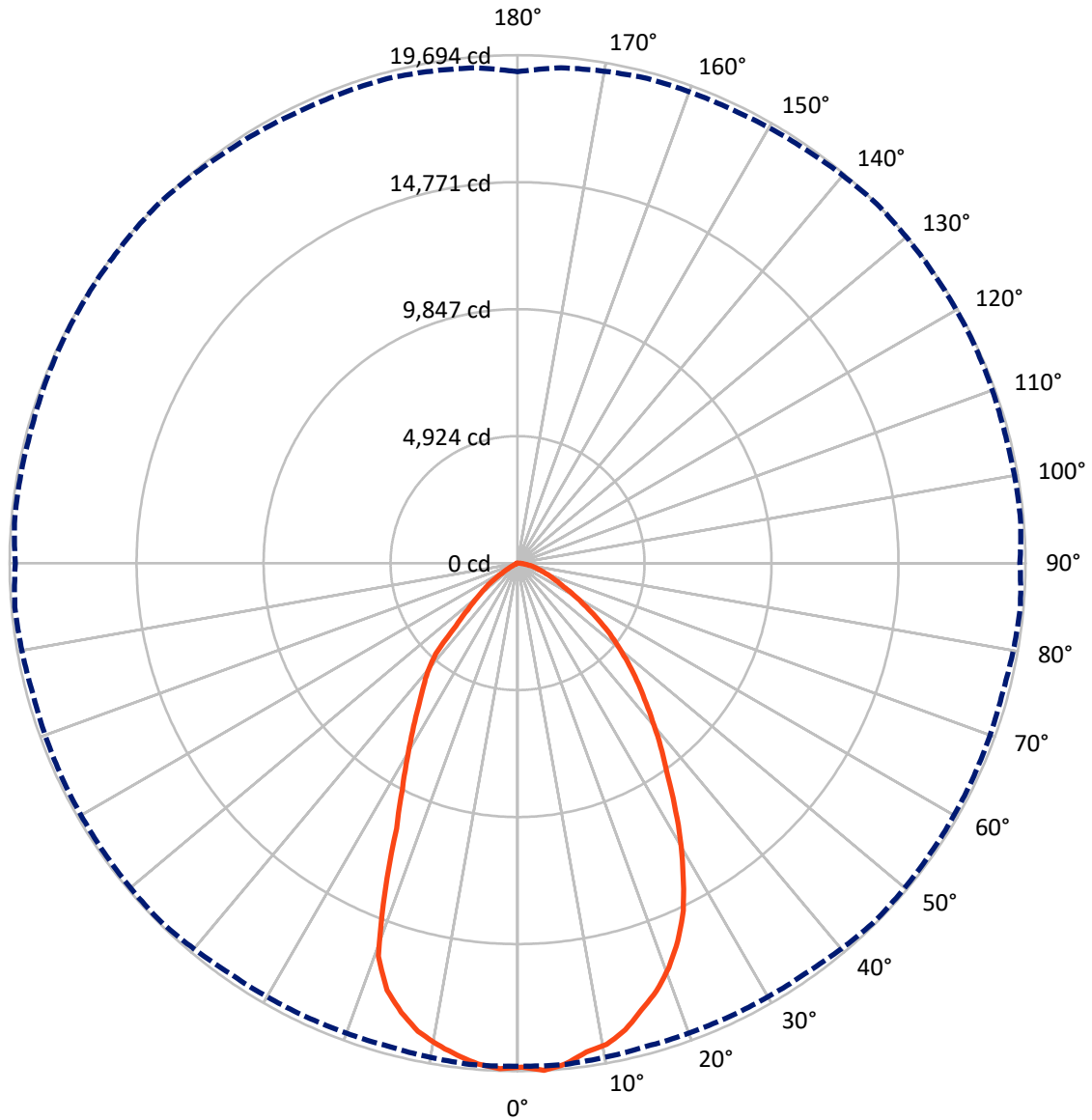
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 48.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15206.1	0.0	15206.1
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	10469.0	0.0	10469.0
	% Fixture	40.8	0.0	40.8
Total	Lumens	25675.1	0.0	25675.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1832.4	7.1
10°-20°	4913.7	19.1
20°-30°	5992.6	23.3
30°-40°	5471.2	21.3
40°-50°	3953.9	15.4
50°-60°	2158.9	8.4
60°-70°	892.6	3.5
70°-80°	361.5	1.4
80°-90°	98.3	0.4
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°	25675.1	100.0
0°-180°	25675.1	100.0



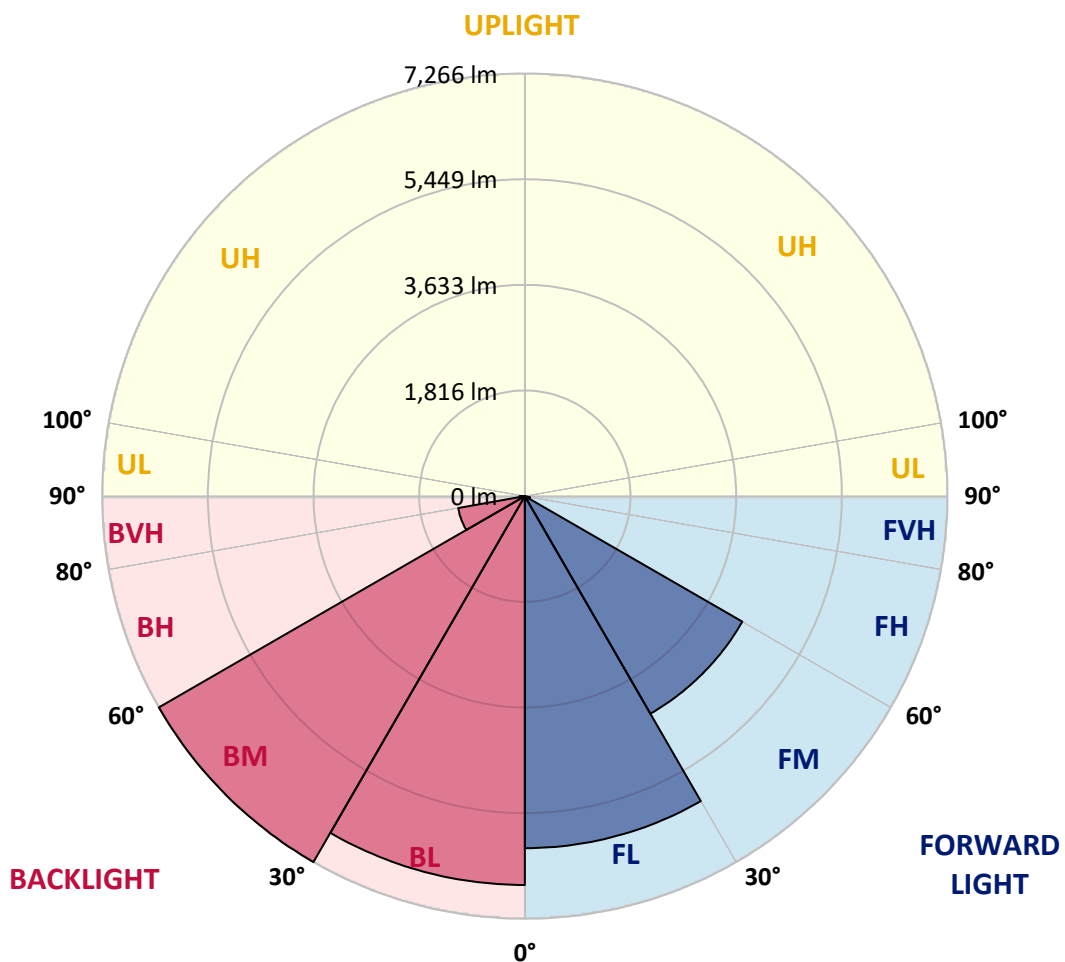
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6052.6	23.6			
FM (30°-60°)	4318.1	16.8			
FH (60°-80°)	90.5	0.4			G0/660
FVH (80°-90°)	7.9	0.0			G0/10
BL (0°-30°)	6686.2	26.0	B5		
BM (30°-60°)	7265.8	28.3	B4/8500		
BH (60°-80°)	1163.6	4.5	B3/2500		G3/2500
BVH (80°-90°)	90.5	0.4			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°	19538.7	19538.7	19538.7	19538.7	19538.7	19538.7	19538.7	19538.7	19538.7	19538.7
2.5°	19502.5	19527.8	19390.4	19404.9	19430.2	19614.6	19567.6	19524.2	19462.8	19567.6
5°	19477.2	19491.7	19347.1	19296.4	19318.1	19484.5	19332.6	19332.6	19318.1	19300.1
7.5°	19282.0	19289.2	19177.1	19086.7	19144.6	19220.5	19108.4	19162.7	19083.1	19144.6
10°	18989.1	18942.1	18808.3	18783.0	18848.1	18920.4	18844.5	18895.1	18822.8	18869.8
12.5°	18558.9	18486.5	18378.1	18345.5	18457.6	18555.2	18493.8	18464.9	18370.9	18486.5
15°	16899.3	16845.1	17090.9	17521.2	17908.1	17991.2	17926.1	17955.1	17759.8	17792.4
17.5°	13909.2	13808.0	14071.9	15091.5	16545.0	17311.5	17253.6	17065.6	16776.4	16841.5
20°	12640.1	12611.2	12582.3	12824.5	13840.5	16165.3	16244.9	15767.6	15355.4	15265.1
22.5°	11924.2	11913.4	11884.5	11938.7	12206.3	13699.5	14610.6	14169.5	13894.7	13869.4
25°	11269.8	11251.7	11165.0	11233.7	11233.7	11320.4	12488.3	12755.8	12513.6	12484.7
27.5°	10604.5	10572.0	10557.5	10590.1	10423.8	9838.0	10134.5	11439.8	11313.2	11320.4
30°	9885.0	9874.2	9834.4	9903.1	9389.7	8663.0	8475.0	10246.6	10271.9	10264.7
32.5°	8814.8	8861.8	9042.6	9118.5	8272.5	7672.3	7357.7	8865.4	9382.5	9371.6
35°	6403.2	6403.2	6992.6	8088.1	7249.3	6797.3	6627.4	7516.8	8503.9	8540.0
37.5°	5264.3	5282.4	5398.1	5897.0	6255.0	6095.9	6045.3	6327.3	7375.8	7433.7
40°	4736.4	4736.4	4736.4	4530.3	4519.5	5492.1	5463.2	5372.8	6370.7	6497.2
42.5°	4255.6	4266.4	4273.6	3753.0	3463.7	4747.3	4682.2	4544.8	5470.4	5618.6
45°	3760.2	3778.3	3800.0	3138.3	3011.8	3416.7	3962.7	3810.8	4581.0	4772.6
47.5°	2295.9	2324.8	2816.6	2661.1	2675.5	2635.8	3232.3	3207.0	3756.6	4027.8
50°	1551.1	1561.9	1608.9	1688.5	2295.9	2071.7	2288.7	2653.8	2852.7	3264.9
52.5°	1301.6	1319.7	1204.0	1095.5	1507.7	1619.8	1598.1	1970.5	2050.0	2559.8
55°	914.7	972.6	918.4	907.5	856.9	1258.2	1211.2	1514.9	1565.6	1945.2
57.5°	94.0	108.5	188.0	676.1	560.4	712.3	864.1	1110.0	1160.6	1435.4
60°	7.2	7.2	18.1	94.0	408.6	426.6	596.6	683.3	781.0	1001.5
62.5°	0.0	3.6	7.2	14.5	65.1	227.8	300.1	357.9	470.0	647.2
65°	0.0	0.0	3.6	10.8	14.5	86.8	115.7	188.0	256.7	401.3
67.5°	0.0	0.0	3.6	7.2	10.8	21.7	39.8	68.7	137.4	227.8
70°	0.0	0.0	3.6	7.2	10.8	18.1	28.9	43.4	61.5	122.9
72.5°	0.0	0.0	3.6	3.6	7.2	18.1	21.7	28.9	43.4	61.5
75°	0.0	0.0	3.6	3.6	10.8	21.7	18.1	21.7	28.9	39.8
77.5°	0.0	0.0	3.6	7.2	10.8	21.7	18.1	21.7	21.7	25.3
80°	0.0	0.0	3.6	7.2	14.5	25.3	21.7	21.7	18.1	18.1
82.5°	0.0	0.0	3.6	10.8	14.5	32.5	32.5	28.9	14.5	10.8
85°	0.0	0.0	7.2	14.5	21.7	36.2	36.2	28.9	10.8	7.2
87.5°	0.0	0.0	7.2	10.8	18.1	25.3	36.2	28.9	10.8	3.6
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°
19538.7	0°	19538.7	19538.7	19538.7	19538.7	19538.7	19538.7	19538.7	19538.7	19538.7
19477.2	2.5°	19574.8	19553.2	19625.5	19654.4	19694.2	19542.3	19448.3	19451.9	19278.4
19256.7	5°	19372.4	19376.0	19470.0	19462.8	19502.5	19419.4	19383.2	19321.8	19169.9
18978.3	7.5°	19115.7	19083.1	19173.5	19242.2	19141.0	19198.8	19115.7	19144.6	19054.2
18732.4	10°	18916.8	18840.9	18924.0	18971.0	18974.7	18916.8	18837.3	18761.3	18728.8
18349.2	12.5°	18475.7	18378.1	18519.1	18584.2	18573.3	18461.2	18370.9	18388.9	18284.1
17676.7	15°	17868.3	17871.9	17973.1	18034.6	17976.8	17951.4	17958.7	17915.3	17824.9
16747.4	17.5°	16939.1	16993.3	17260.9	17409.1	17441.6	17391.0	17365.7	17315.1	17224.7
15265.1	20°	15391.6	15717.0	16194.3	16653.4	16743.8	16729.4	16639.0	16617.3	16566.7
13797.1	22.5°	14032.1	14274.4	14827.6	15543.5	15912.2	15948.4	15839.9	15807.4	15753.2
12484.7	25°	12625.7	12886.0	13384.9	14162.3	14925.2	15080.7	15062.6	14965.0	14907.1
11320.4	27.5°	11439.8	11700.1	12152.0	12853.4	13670.6	14169.5	14216.5	14061.1	14057.4
10282.8	30°	10369.5	10727.5	11071.0	11642.2	12434.0	13182.5	13262.0	13153.5	13164.4
9331.9	32.5°	9530.7	9827.2	10120.1	10503.3	11161.3	12032.7	12343.6	12242.4	12202.6
8540.0	35°	8673.8	8876.3	9176.4	9527.1	9975.4	10839.6	11378.3	11302.4	11262.6
7469.8	37.5°	7697.6	8044.7	8261.6	8655.7	9006.5	9693.4	10452.7	10441.8	10358.7
6558.7	40°	6696.1	7061.3	7390.3	7788.0	8059.2	8605.1	9447.6	9443.9	9454.8
5615.0	42.5°	5788.6	6124.8	6522.5	6956.4	7216.7	7614.4	8518.3	8569.0	8630.4
4837.7	45°	4967.8	5271.5	5640.3	6168.2	6482.8	6710.5	7513.2	7744.6	7741.0
4143.5	47.5°	4230.2	4515.9	4826.8	5340.2	5741.6	5947.7	6612.9	6941.9	6920.3
3398.7	50°	3550.5	3803.6	4129.0	4501.4	5040.1	5220.9	5716.3	6150.1	6117.6
2708.1	52.5°	2856.3	3207.0	3481.8	3821.7	4389.3	4566.5	4949.8	5372.8	5347.5
2032.0	55°	2227.2	2567.1	2899.7	3192.6	3669.8	3933.8	4208.6	4642.4	4635.2
1590.9	57.5°	1684.9	2057.3	2371.8	2650.2	3029.9	3355.3	3575.8	3969.9	4020.5
1088.3	60°	1247.4	1533.0	1872.9	2183.8	2483.9	2820.2	2968.4	3355.3	3377.0
744.8	62.5°	849.7	1164.2	1496.9	1778.9	2003.0	2350.1	2483.9	2802.1	2841.9
477.3	65°	589.3	791.8	1171.5	1373.9	1648.7	1945.2	2079.0	2332.1	2411.6
274.8	67.5°	390.5	564.0	914.7	1099.1	1370.3	1572.8	1742.7	1948.8	2035.6
173.5	70°	213.3	415.8	654.4	867.7	1102.8	1298.0	1464.3	1630.6	1706.6
79.5	72.5°	144.6	278.4	455.6	687.0	889.4	1081.1	1229.3	1352.2	1355.8
47.0	75°	72.3	188.0	347.1	531.5	694.2	882.2	1016.0	1088.3	1001.5
28.9	77.5°	43.4	137.4	282.0	426.6	564.0	712.3	788.2	828.0	687.0
21.7	80°	25.3	97.6	220.6	339.9	390.5	524.3	596.6	607.4	459.2
14.5	82.5°	18.1	72.3	173.5	249.5	238.6	368.8	448.3	433.9	292.9
10.8	85°	10.8	50.6	108.5	155.5	144.6	242.2	260.3	267.6	169.9
7.2	87.5°	7.2	28.9	57.8	83.2	68.7	104.9	104.9	126.5	83.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°

19538.7
19054.2
19133.7
18902.3
18584.2
18193.7
17734.5
17184.9
16451.0
15738.7
14845.6
14050.2
13110.2
12206.3
11208.4
10427.4
9454.8
8597.9
7748.2
6927.5
6146.5
5401.7
4653.3
3998.9
3409.5
2849.1
2393.5
2024.7
1677.6
1323.3
936.4
661.7
430.3
271.2
155.5
72.3
0.0

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