

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: P638286

Luminaire Tested: **IFLD-S-SA6C-830-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638286
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-830-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25396.2 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

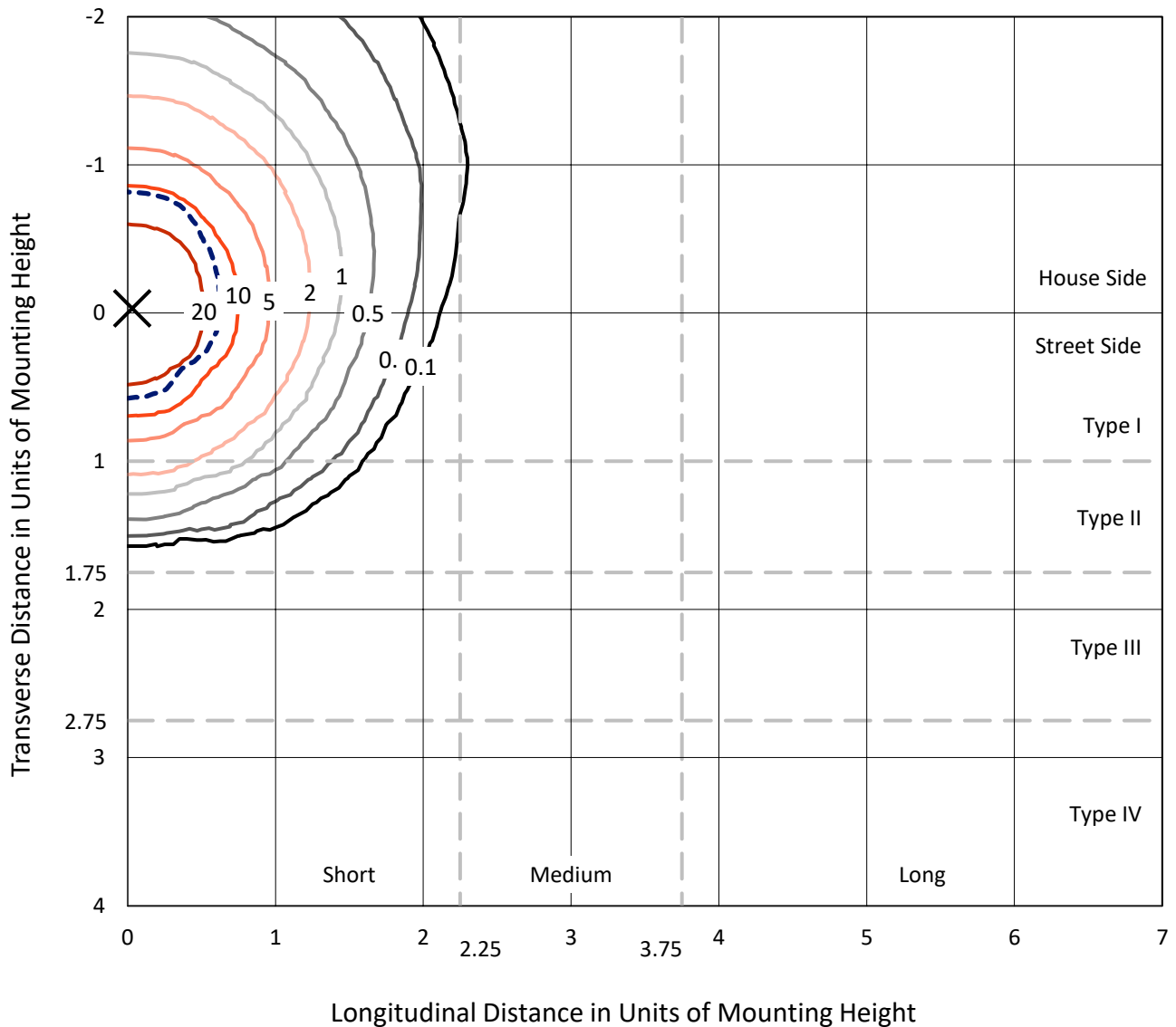
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

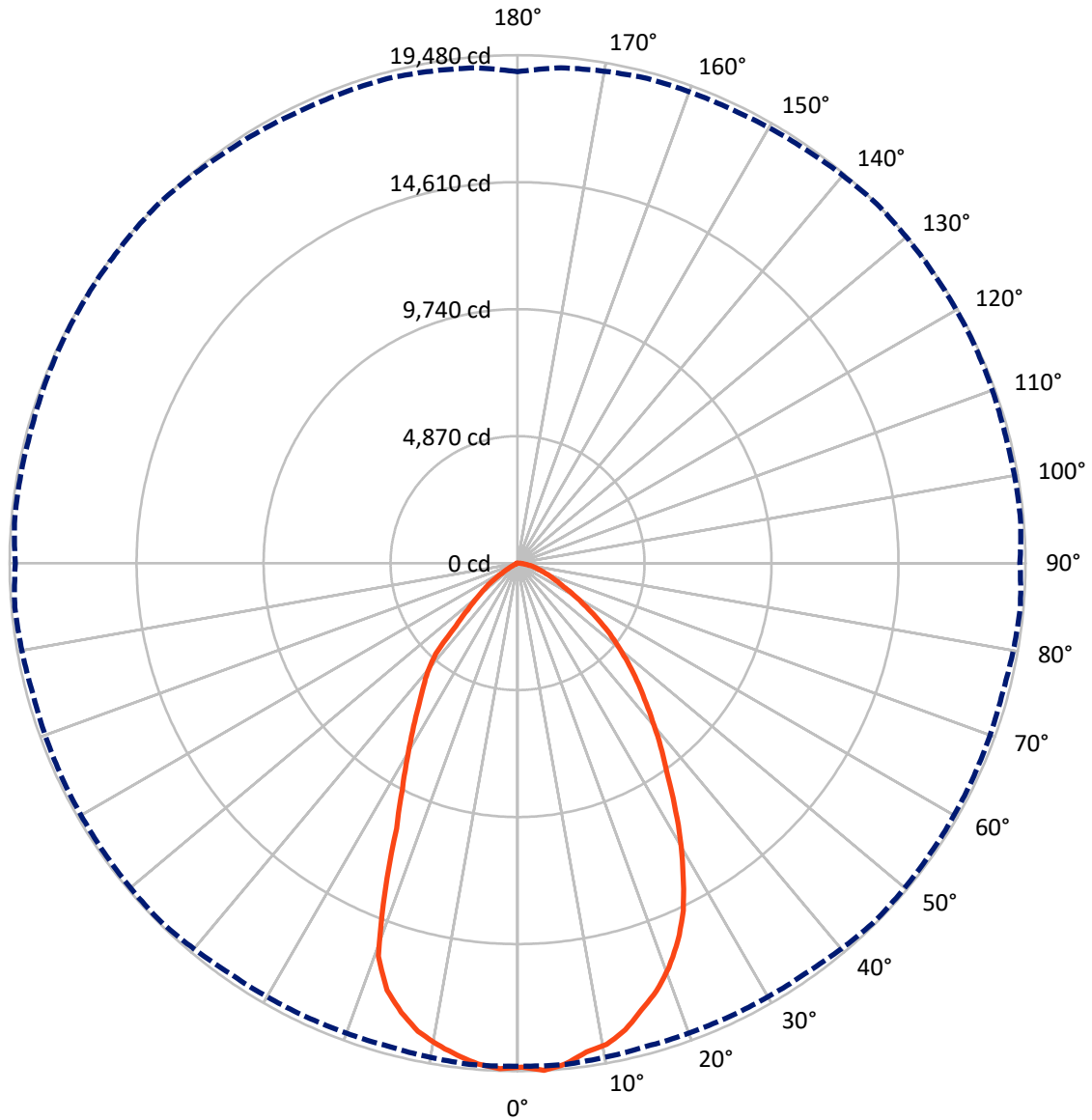
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 48.3 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	15040.9	0.0	15040.9
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	10355.3	0.0	10355.3
	% Fixture	40.8	0.0	40.8
Total	Lumens	25396.2	0.0	25396.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1812.5	7.1
10°-20°	4860.4	19.1
20°-30°	5927.5	23.3
30°-40°	5411.7	21.3
40°-50°	3910.9	15.4
50°-60°	2135.4	8.4
60°-70°	882.9	3.5
70°-80°	357.6	1.4
80°-90°	97.3	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°	25396.2	100.0
0°-180°	25396.2	100.0

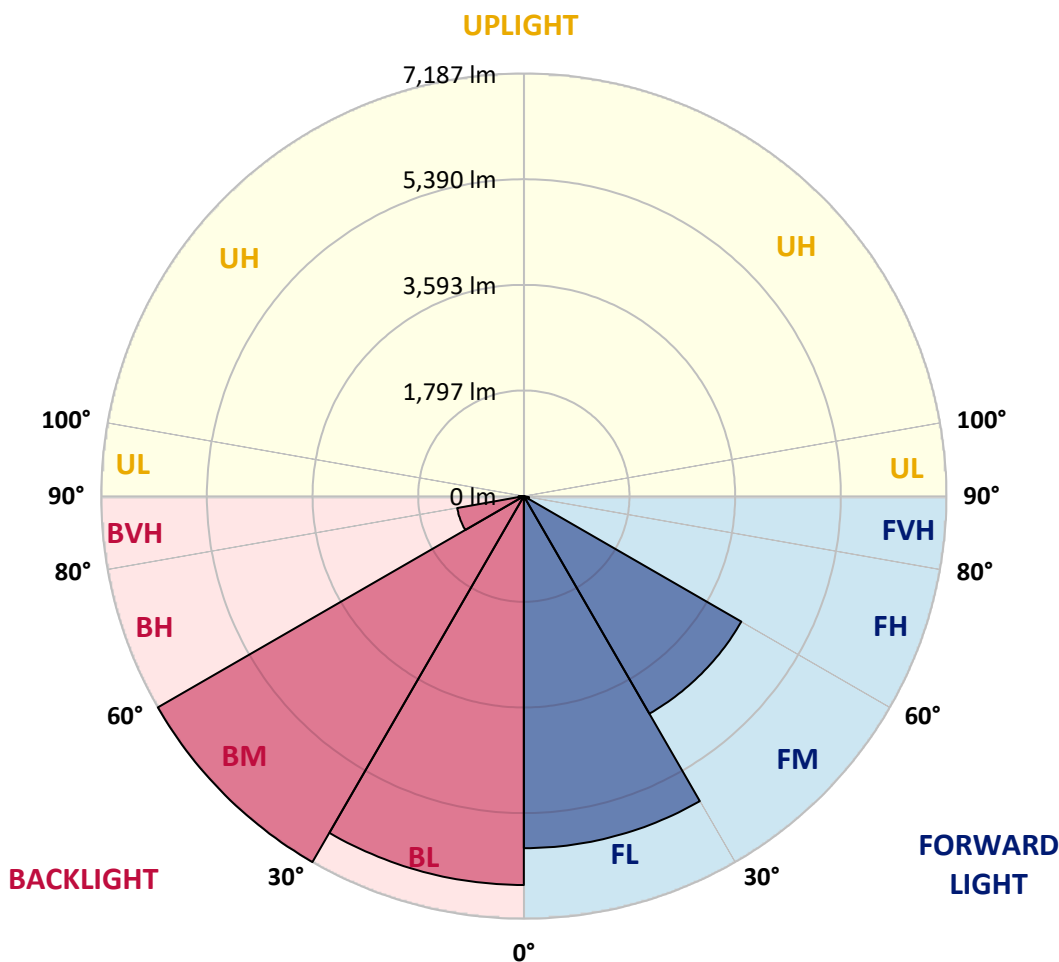


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5986.8	23.6			
FM (30°-60°)	4271.2	16.8			
FH (60°-80°)	89.5	0.4			G0/660
FVH (80°-90°)	7.8	0.0			G0/10
BL (0°-30°)	6613.5	26.0	B5		
BM (30°-60°)	7186.9	28.3	B4/8500		
BH (60°-80°)	1151.0	4.5	B3/2500		G3/2500
BVH (80°-90°)	89.5	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°	19326.4	19326.4	19326.4	19326.4	19326.4	19326.4	19326.4	19326.4	19326.4	19326.4
2.5°	19290.7	19315.7	19179.8	19194.1	19219.2	19401.5	19355.1	19312.1	19251.3	19355.1
5°	19265.6	19279.9	19136.9	19086.8	19108.3	19272.8	19122.6	19122.6	19108.3	19090.4
7.5°	19072.5	19079.7	18968.8	18879.4	18936.6	19011.7	18900.9	18954.5	18875.8	18936.6
10°	18782.8	18736.3	18604.0	18579.0	18643.4	18714.9	18639.8	18689.9	18618.3	18664.8
12.5°	18357.3	18285.7	18178.4	18146.3	18257.1	18353.7	18292.9	18264.3	18171.3	18285.7
15°	16715.7	16662.1	16905.3	17330.9	17713.5	17795.8	17731.4	17760.0	17566.9	17599.1
17.5°	13758.1	13658.0	13919.0	14927.6	16365.2	17123.4	17066.2	16880.2	16594.1	16658.5
20°	12502.8	12474.2	12445.6	12685.2	13690.2	15989.7	16068.4	15596.3	15188.6	15099.2
22.5°	11794.7	11784.0	11755.4	11809.0	12073.7	13550.7	14451.9	14015.6	13743.8	13718.8
25°	11147.4	11129.5	11043.7	11111.6	11111.6	11197.5	12352.6	12617.3	12377.6	12349.0
27.5°	10489.4	10457.2	10442.9	10475.0	10310.5	9731.2	10024.4	11315.5	11190.3	11197.5
30°	9777.7	9766.9	9727.6	9795.5	9287.7	8568.9	8382.9	10135.3	10160.3	10153.2
32.5°	8719.1	8765.6	8944.4	9019.5	8182.6	7589.0	7277.8	8769.1	9280.6	9269.8
35°	6333.7	6333.7	6916.6	8000.2	7170.5	6723.5	6555.4	7435.2	8411.5	8447.3
37.5°	5207.1	5225.0	5339.4	5833.0	6187.0	6029.7	5979.6	6258.6	7295.7	7352.9
40°	4685.0	4685.0	4685.0	4481.1	4470.4	5432.4	5403.8	5314.4	6301.5	6426.6
42.5°	4209.3	4220.1	4227.2	3712.2	3426.1	4695.7	4631.3	4495.4	5411.0	5557.6
45°	3719.4	3737.3	3758.7	3104.2	2979.1	3379.6	3919.6	3769.4	4531.2	4720.7
47.5°	2271.0	2299.6	2786.0	2632.2	2646.5	2607.1	3197.2	3172.2	3715.8	3984.0
50°	1534.2	1545.0	1591.5	1670.1	2271.0	2049.2	2263.8	2625.0	2821.7	3229.4
52.5°	1287.5	1305.4	1190.9	1083.6	1491.3	1602.2	1580.7	1949.1	2027.8	2532.0
55°	904.8	962.0	908.4	897.7	847.6	1244.6	1198.1	1498.5	1548.5	1924.1
57.5°	93.0	107.3	186.0	668.8	554.3	704.5	854.7	1097.9	1148.0	1419.8
60°	7.2	7.2	17.9	93.0	404.1	422.0	590.1	675.9	772.5	990.6
62.5°	0.0	3.6	7.2	14.3	64.4	225.3	296.8	354.1	464.9	640.2
65°	0.0	0.0	3.6	10.7	14.3	85.8	114.4	186.0	253.9	397.0
67.5°	0.0	0.0	3.6	7.2	10.7	21.5	39.3	68.0	135.9	225.3
70°	0.0	0.0	3.6	7.2	10.7	17.9	28.6	42.9	60.8	121.6
72.5°	0.0	0.0	3.6	3.6	7.2	17.9	21.5	28.6	42.9	60.8
75°	0.0	0.0	3.6	3.6	10.7	21.5	17.9	21.5	28.6	39.3
77.5°	0.0	0.0	3.6	7.2	10.7	21.5	17.9	21.5	21.5	25.0
80°	0.0	0.0	3.6	7.2	14.3	25.0	21.5	21.5	17.9	17.9
82.5°	0.0	0.0	3.6	10.7	14.3	32.2	32.2	28.6	14.3	10.7
85°	0.0	0.0	7.2	14.3	21.5	35.8	35.8	28.6	10.7	7.2
87.5°	0.0	0.0	7.2	10.7	17.9	25.0	35.8	28.6	10.7	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°
19326.4	0°	19326.4	19326.4	19326.4	19326.4	19326.4	19326.4	19326.4	19326.4	19326.4
19265.6	2.5°	19362.2	19340.7	19412.3	19440.9	19480.2	19330.0	19237.0	19240.6	19068.9
19047.5	5°	19161.9	19165.5	19258.5	19251.3	19290.7	19208.4	19172.7	19111.9	18961.7
18772.1	7.5°	18908.0	18875.8	18965.2	19033.2	18933.0	18990.3	18908.0	18936.6	18847.2
18528.9	10°	18711.3	18636.2	18718.5	18765.0	18768.5	18711.3	18632.6	18557.5	18525.3
18149.8	12.5°	18275.0	18178.4	18317.9	18382.3	18371.6	18260.7	18171.3	18189.2	18085.5
17484.6	15°	17674.2	17677.8	17777.9	17838.7	17781.5	17756.4	17763.6	17720.7	17631.3
16565.5	17.5°	16755.1	16808.7	17073.4	17220.0	17252.2	17202.1	17177.1	17127.0	17037.6
15099.2	20°	15224.4	15546.3	16018.3	16472.5	16561.9	16547.6	16458.2	16436.8	16386.7
13647.2	22.5°	13879.7	14119.3	14666.5	15374.6	15739.4	15775.2	15667.9	15635.7	15582.0
12349.0	25°	12488.5	12746.0	13239.5	14008.5	14763.1	14916.8	14899.0	14802.4	14745.2
11197.5	27.5°	11315.5	11573.0	12020.0	12713.8	13522.1	14015.6	14062.1	13908.3	13904.7
10171.1	30°	10256.9	10610.9	10950.7	11515.8	12299.0	13039.3	13117.9	13010.7	13021.4
9230.5	32.5°	9427.2	9720.4	10010.1	10389.2	11040.1	11902.0	12209.6	12109.4	12070.1
8447.3	35°	8579.6	8779.9	9076.7	9423.6	9867.1	10721.8	11254.7	11179.6	11140.2
7388.7	37.5°	7614.0	7957.3	8171.9	8561.7	8908.6	9588.1	10339.1	10328.4	10246.2
6487.4	40°	6623.3	6984.6	7310.0	7703.4	7971.6	8511.6	9344.9	9341.4	9352.1
5554.0	42.5°	5725.7	6058.3	6451.7	6880.8	7138.3	7531.7	8425.8	8475.9	8536.7
4785.1	45°	4913.9	5214.3	5579.1	6101.2	6412.3	6637.7	7431.6	7660.5	7656.9
4098.5	47.5°	4184.3	4466.8	4774.4	5282.2	5679.2	5883.0	6541.1	6866.5	6845.1
3361.7	50°	3511.9	3762.3	4084.2	4452.5	4985.4	5164.2	5654.2	6083.3	6051.1
2678.7	52.5°	2825.3	3172.2	3444.0	3780.2	4341.7	4516.9	4896.0	5314.4	5289.4
2009.9	55°	2203.0	2539.2	2868.2	3157.9	3630.0	3891.0	4162.8	4592.0	4584.8
1573.6	57.5°	1666.6	2034.9	2346.1	2621.4	2997.0	3318.8	3537.0	3926.8	3976.9
1076.5	60°	1233.8	1516.4	1852.5	2160.1	2456.9	2789.5	2936.2	3318.8	3340.3
736.7	62.5°	840.4	1151.6	1480.6	1759.6	1981.3	2324.6	2456.9	2771.6	2811.0
472.1	65°	582.9	783.2	1158.7	1359.0	1630.8	1924.1	2056.4	2306.7	2385.4
271.8	67.5°	386.2	557.9	904.8	1087.2	1355.4	1555.7	1723.8	1927.6	2013.5
171.7	70°	211.0	411.3	647.3	858.3	1090.8	1283.9	1448.4	1612.9	1688.0
78.7	72.5°	143.1	275.4	450.6	679.5	879.8	1069.3	1215.9	1337.5	1341.1
46.5	75°	71.5	186.0	343.3	525.7	686.7	872.6	1004.9	1076.5	990.6
28.6	77.5°	42.9	135.9	279.0	422.0	557.9	704.5	779.6	819.0	679.5
21.5	80°	25.0	96.6	218.2	336.2	386.2	518.6	590.1	600.8	454.2
14.3	82.5°	17.9	71.5	171.7	246.8	236.0	364.8	443.5	429.2	289.7
10.7	85°	10.7	50.1	107.3	153.8	143.1	239.6	257.5	264.6	168.1
7.2	87.5°	7.2	28.6	57.2	82.3	68.0	103.7	103.7	125.2	82.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
19326.4
18847.2
18925.9
18697.0
18382.3
17996.0
17541.9
16998.3
16272.3
15567.7
14684.4
13897.6
12967.7
12073.7
11086.6
10314.1
9352.1
8504.5
7664.1
6852.2
6079.7
5343.0
4602.7
3955.4
3372.5
2818.1
2367.5
2002.7
1659.4
1308.9
926.3
654.5
425.6
268.2
153.8
71.5
0.0

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