

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: P638288

Luminaire Tested: **IFLD-S-SA6E-830-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638288
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-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: 32340.1 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

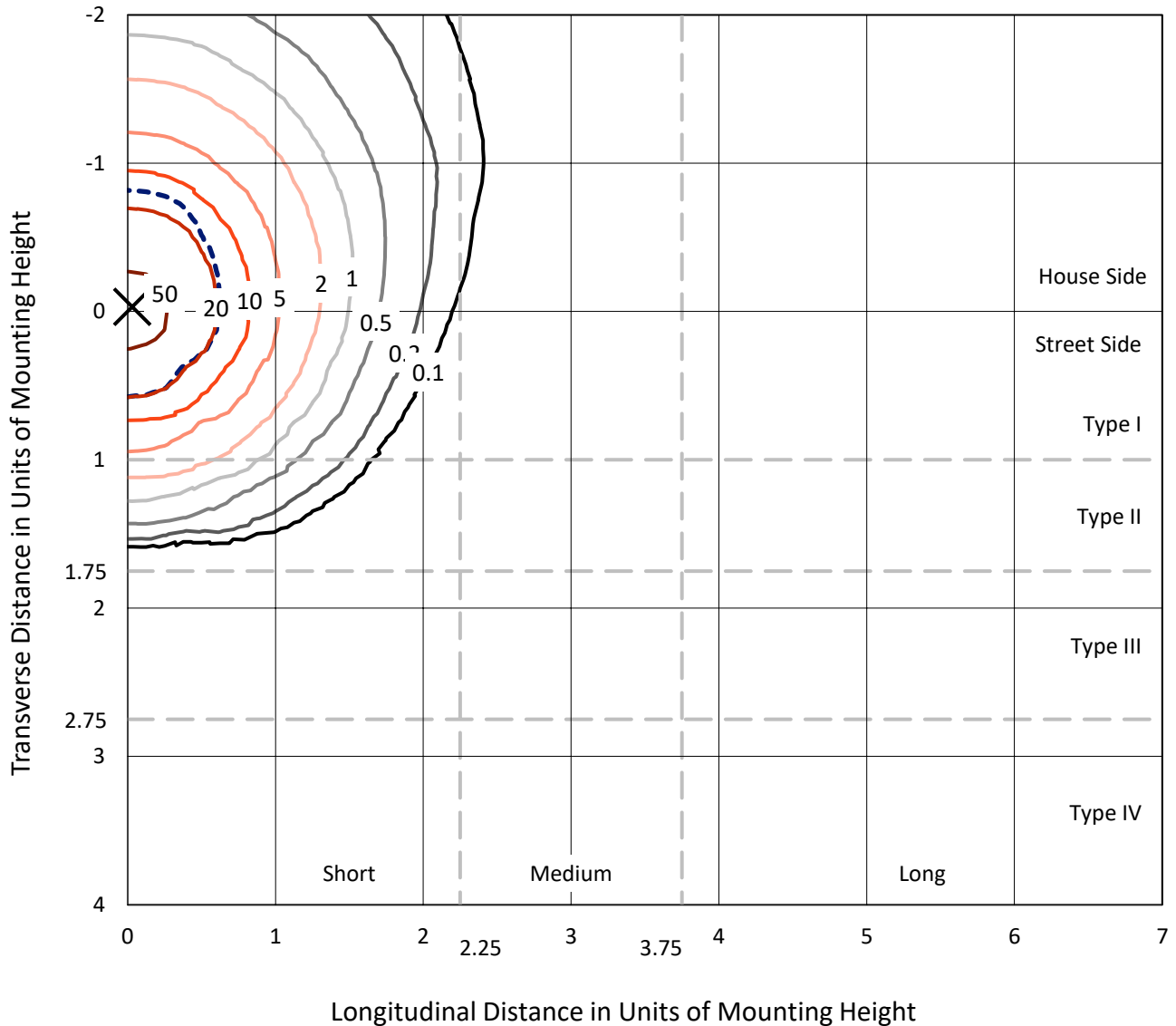
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

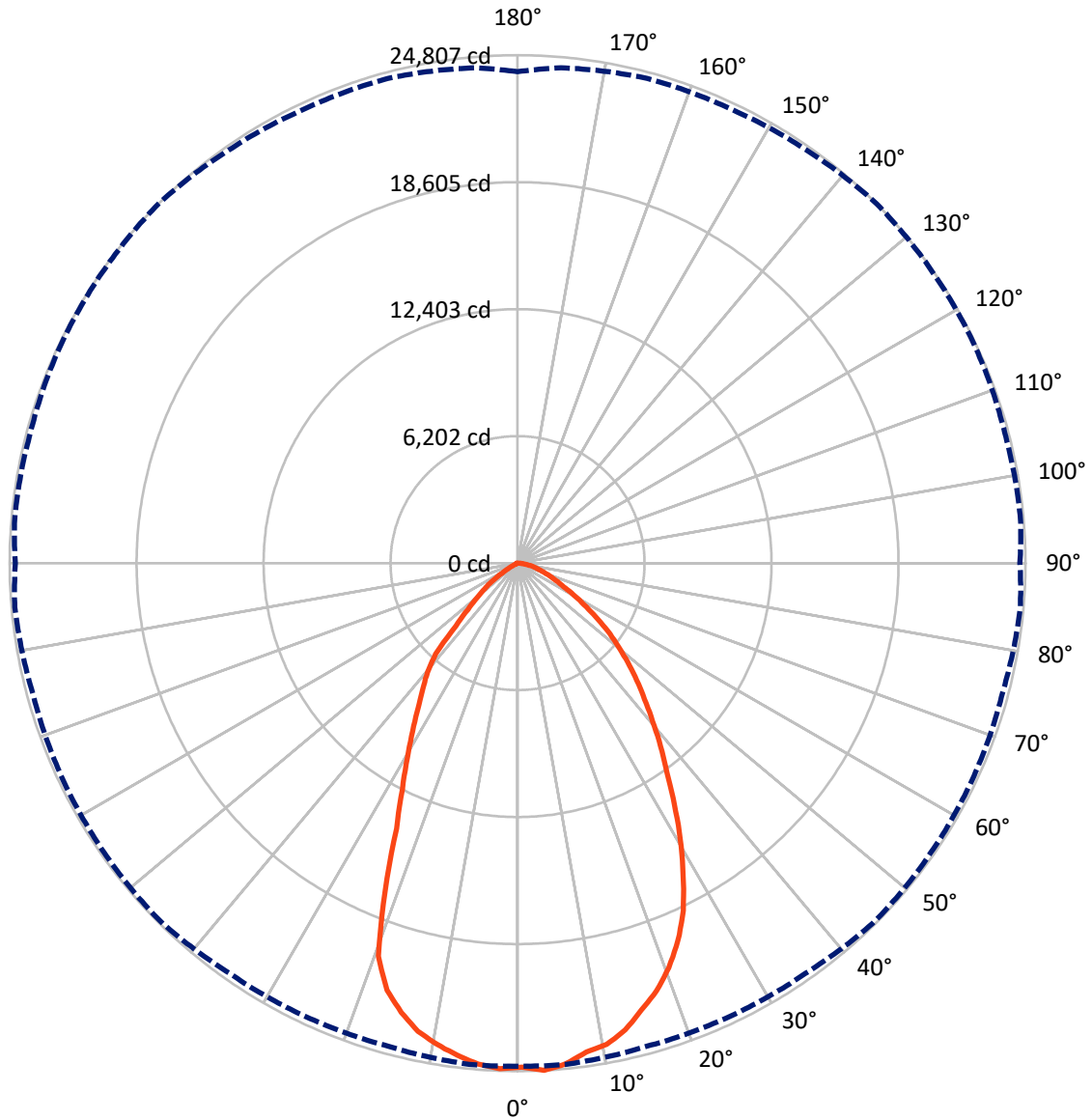
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 61.5 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	19153.4	0.0	19153.4
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	13186.6	0.0	13186.6
	% Fixture	40.8	0.0	40.8
Total	Lumens	32340.1	0.0	32340.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2308.1	7.1
10°-20°	6189.3	19.1
20°-30°	7548.2	23.3
30°-40°	6891.4	21.3
40°-50°	4980.3	15.4
50°-60°	2719.3	8.4
60°-70°	1124.3	3.5
70°-80°	455.4	1.4
80°-90°	123.9	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°	32340.1	100.0
0°-180°	32340.1	100.0



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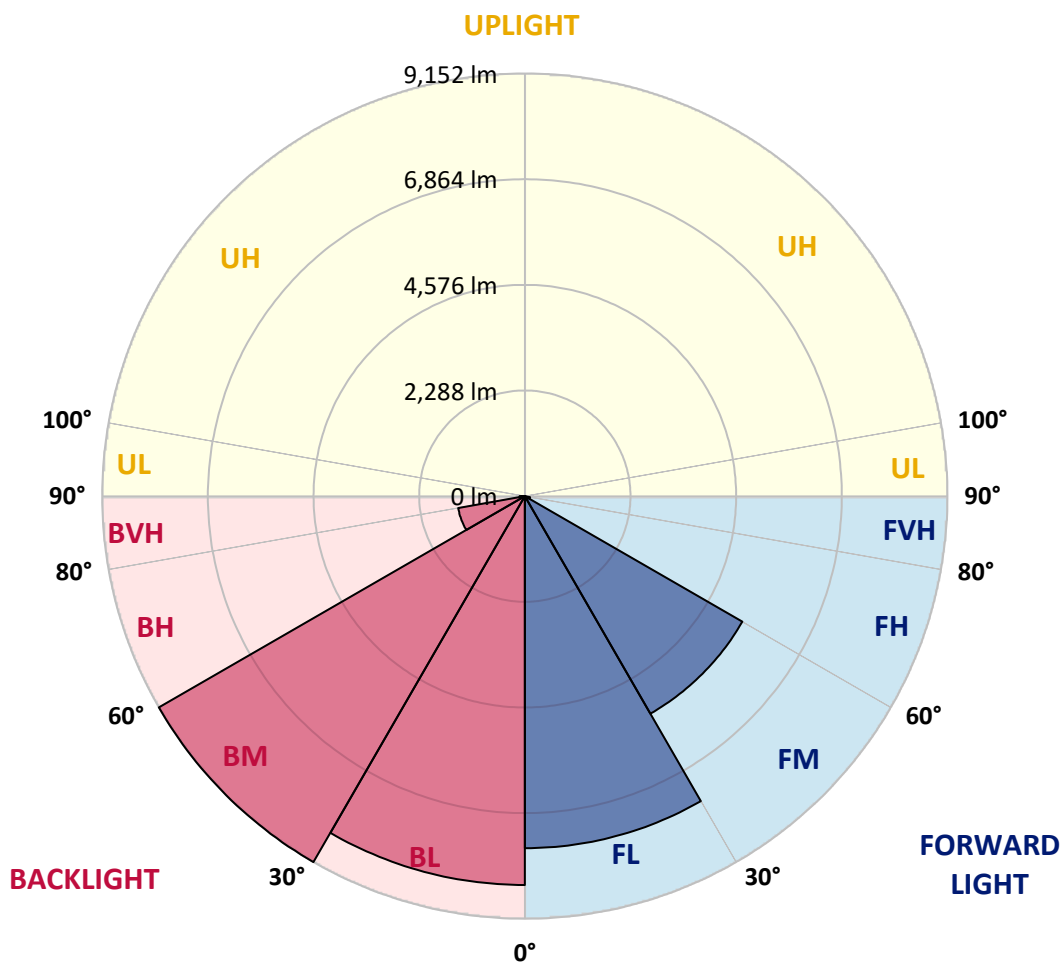
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7623.8	23.6			
FM (30°-60°)	5439.0	16.8			
FH (60°-80°)	114.0	0.4			G0/660
FVH (80°-90°)	9.9	0.0			G0/10
BL (0°-30°)	8421.8	26.0	B5		
BM (30°-60°)	9152.0	28.3	B5		
BH (60°-80°)	1465.7	4.5	B3/2500		G3/2500
BVH (80°-90°)	113.9	0.4			G2/225
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°	24610.7	24610.7	24610.7	24610.7	24610.7	24610.7	24610.7	24610.7	24610.7	24610.7
2.5°	24565.2	24597.0	24424.0	24442.2	24474.1	24706.3	24647.1	24592.5	24515.1	24647.1
5°	24533.3	24551.5	24369.3	24305.6	24332.9	24542.4	24351.1	24351.1	24332.9	24310.1
7.5°	24287.4	24296.5	24155.3	24041.4	24114.3	24209.9	24068.8	24137.1	24036.9	24114.3
10°	23918.5	23859.3	23690.8	23658.9	23740.9	23831.9	23736.3	23800.1	23709.0	23768.2
12.5°	23376.5	23285.4	23148.8	23107.8	23249.0	23372.0	23294.5	23258.1	23139.7	23285.4
15°	21286.2	21217.9	21527.5	22069.5	22556.8	22661.5	22579.5	22616.0	22370.1	22411.0
17.5°	17519.9	17392.4	17724.8	19009.1	20839.9	21805.3	21732.5	21495.7	21131.3	21213.3
20°	15921.4	15884.9	15848.5	16153.6	17433.3	20361.7	20461.9	19860.7	19341.5	19227.7
22.5°	15019.6	15006.0	14969.5	15037.9	15374.9	17255.7	18403.4	17847.8	17501.7	17469.8
25°	14195.3	14172.6	14063.3	14149.8	14149.8	14259.1	15730.1	16067.1	15762.0	15725.5
27.5°	13357.4	13316.4	13298.2	13339.1	13129.7	12391.9	12765.3	14409.4	14250.0	14259.1
30°	12451.1	12437.4	12387.3	12473.9	11827.2	10911.8	10675.0	12906.5	12938.4	12929.3
32.5°	11103.1	11162.3	11390.0	11485.6	10419.9	9663.9	9267.7	11166.8	11818.1	11804.4
35°	8065.4	8065.4	8807.8	10187.7	9131.1	8561.8	8347.8	9468.1	10711.4	10756.9
37.5°	6630.9	6653.6	6799.4	7427.8	7878.7	7678.3	7614.6	7969.8	9290.5	9363.4
40°	5966.0	5966.0	5966.0	5706.4	5692.7	6917.8	6881.3	6767.5	8024.4	8183.8
42.5°	5360.3	5373.9	5383.0	4727.2	4362.9	5979.6	5897.6	5724.6	6890.5	7077.2
45°	4736.3	4759.1	4786.4	3953.0	3793.6	4303.7	4991.4	4800.1	5770.1	6011.5
47.5°	2891.9	2928.3	3547.7	3351.9	3370.1	3320.0	4071.4	4039.5	4731.8	5073.3
50°	1953.7	1967.4	2026.6	2126.8	2891.9	2609.5	2882.8	3342.8	3593.2	4112.4
52.5°	1639.5	1662.3	1516.5	1379.9	1899.1	2040.3	2012.9	2482.0	2582.2	3224.3
55°	1152.2	1225.1	1156.8	1143.1	1079.3	1584.8	1525.6	1908.2	1972.0	2450.1
57.5°	118.4	136.6	236.8	851.6	705.9	897.2	1088.4	1398.1	1461.9	1808.0
60°	9.1	9.1	22.8	118.4	514.6	537.4	751.4	860.7	983.7	1261.5
62.5°	0.0	4.6	9.1	18.2	82.0	286.9	378.0	450.9	592.0	815.2
65°	0.0	0.0	4.6	13.7	18.2	109.3	145.7	236.8	323.3	505.5
67.5°	0.0	0.0	4.6	9.1	13.7	27.3	50.1	86.5	173.1	286.9
70°	0.0	0.0	4.6	9.1	13.7	22.8	36.4	54.6	77.4	154.8
72.5°	0.0	0.0	4.6	4.6	9.1	22.8	27.3	36.4	54.6	77.4
75°	0.0	0.0	4.6	4.6	13.7	27.3	22.8	27.3	36.4	50.1
77.5°	0.0	0.0	4.6	9.1	13.7	27.3	22.8	27.3	27.3	31.9
80°	0.0	0.0	4.6	9.1	18.2	31.9	27.3	27.3	22.8	22.8
82.5°	0.0	0.0	4.6	13.7	18.2	41.0	41.0	36.4	18.2	13.7
85°	0.0	0.0	9.1	18.2	27.3	45.5	45.5	36.4	13.7	9.1
87.5°	0.0	0.0	9.1	13.7	22.8	31.9	45.5	36.4	13.7	4.6
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°
24610.7	0°	24610.7	24610.7	24610.7	24610.7	24610.7	24610.7	24610.7	24610.7	24610.7
24533.3	2.5°	24656.2	24628.9	24720.0	24756.4	24806.5	24615.3	24496.8	24501.4	24282.8
24255.5	5°	24401.2	24405.8	24524.2	24515.1	24565.2	24460.4	24414.9	24337.5	24146.2
23904.8	7.5°	24077.9	24036.9	24150.7	24237.3	24109.7	24182.6	24077.9	24114.3	24000.4
23595.1	10°	23827.4	23731.7	23836.5	23895.7	23900.3	23827.4	23727.2	23631.6	23590.6
23112.4	12.5°	23271.8	23148.8	23326.4	23408.4	23394.7	23253.6	23139.7	23162.5	23030.4
22265.3	15°	22506.7	22511.2	22638.8	22716.2	22643.3	22611.4	22620.5	22565.9	22452.0
21094.9	17.5°	21336.3	21404.6	21741.6	21928.3	21969.3	21905.5	21873.7	21809.9	21696.0
19227.7	20°	19387.1	19797.0	20398.1	20976.5	21090.3	21072.1	20958.3	20930.9	20867.2
17378.7	22.5°	17674.7	17979.8	18676.6	19578.4	20042.9	20088.4	19951.8	19910.8	19842.5
15725.5	25°	15903.1	16231.0	16859.5	17838.7	18799.6	18995.4	18972.6	18849.7	18776.8
14259.1	27.5°	14409.4	14737.3	15306.5	16190.1	17219.3	17847.8	17907.0	17711.1	17706.6
12952.0	30°	13061.3	13512.2	13944.9	14664.4	15661.8	16604.5	16704.7	16568.0	16581.7
11754.3	32.5°	12004.8	12378.2	12747.1	13229.8	14058.7	15156.3	15547.9	15420.4	15370.3
10756.9	35°	10925.4	11180.5	11558.5	12000.2	12564.9	13653.4	14332.0	14236.3	14186.2
9408.9	37.5°	9695.8	10133.0	10406.3	10902.7	11344.4	12209.7	13166.1	13152.4	13047.7
8261.3	40°	8434.3	8894.3	9308.7	9809.7	10151.2	10838.9	11900.0	11895.5	11909.1
7072.6	42.5°	7291.2	7714.8	8215.7	8762.2	9090.1	9591.1	10729.6	10793.4	10870.8
6093.5	45°	6257.4	6640.0	7104.5	7769.4	8165.6	8452.5	9463.6	9755.0	9750.5
5219.1	47.5°	5328.4	5688.2	6079.8	6726.5	7232.0	7491.6	8329.6	8744.0	8716.7
4280.9	50°	4472.2	4791.0	5200.9	5669.9	6348.5	6576.2	7200.1	7746.6	7705.6
3411.1	52.5°	3597.8	4039.5	4385.7	4813.8	5528.8	5751.9	6234.7	6767.5	6735.6
2559.4	55°	2805.4	3233.5	3652.4	4021.3	4622.5	4954.9	5301.0	5847.5	5838.4
2003.8	57.5°	2122.2	2591.3	2987.5	3338.2	3816.4	4226.3	4504.1	5000.5	5064.2
1370.8	60°	1571.2	1931.0	2359.1	2750.7	3128.7	3552.2	3739.0	4226.3	4253.6
938.2	62.5°	1070.2	1466.4	1885.4	2240.6	2523.0	2960.2	3128.7	3529.5	3579.6
601.1	65°	742.3	997.4	1475.5	1730.6	2076.7	2450.1	2618.6	2937.4	3037.6
346.1	67.5°	491.8	710.4	1152.2	1384.5	1726.0	1981.1	2195.1	2454.7	2564.0
218.6	70°	268.7	523.7	824.3	1093.0	1389.0	1634.9	1844.4	2053.9	2149.6
100.2	72.5°	182.2	350.7	573.8	865.3	1120.3	1361.7	1548.4	1703.3	1707.8
59.2	75°	91.1	236.8	437.2	669.5	874.4	1111.2	1279.7	1370.8	1261.5
36.4	77.5°	54.6	173.1	355.2	537.4	710.4	897.2	992.8	1042.9	865.3
27.3	80°	31.9	123.0	277.8	428.1	491.8	660.4	751.4	765.1	578.4
18.2	82.5°	22.8	91.1	218.6	314.2	300.6	464.5	564.7	546.5	368.9
13.7	85°	13.7	63.8	136.6	195.8	182.2	305.1	327.9	337.0	214.0
9.1	87.5°	9.1	36.4	72.9	104.7	86.5	132.1	132.1	159.4	104.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
24610.7
24000.4
24100.6
23809.2
23408.4
22916.6
22338.2
21645.9
20721.4
19824.3
18699.4
17697.5
16513.4
15374.9
14117.9
13134.2
11909.1
10829.8
9759.6
8725.8
7742.1
6803.9
5861.2
5036.9
4294.6
3588.7
3014.9
2550.3
2113.1
1666.8
1179.5
833.4
541.9
341.6
195.8
91.1
0.0

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