

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: P638010

Luminaire Tested: **IFLD-L-SA8B-827-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638010
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-827-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25226.9 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

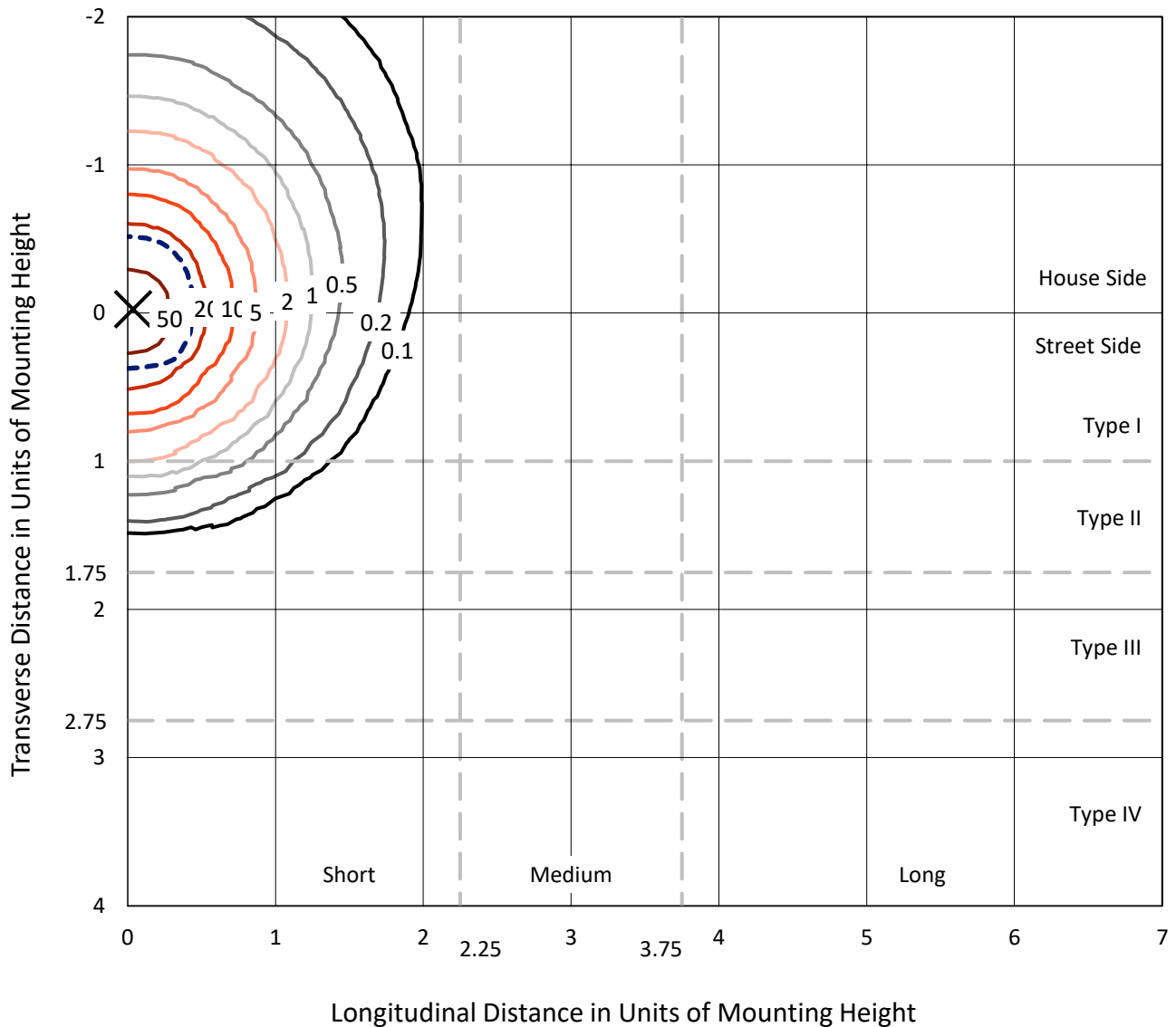
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

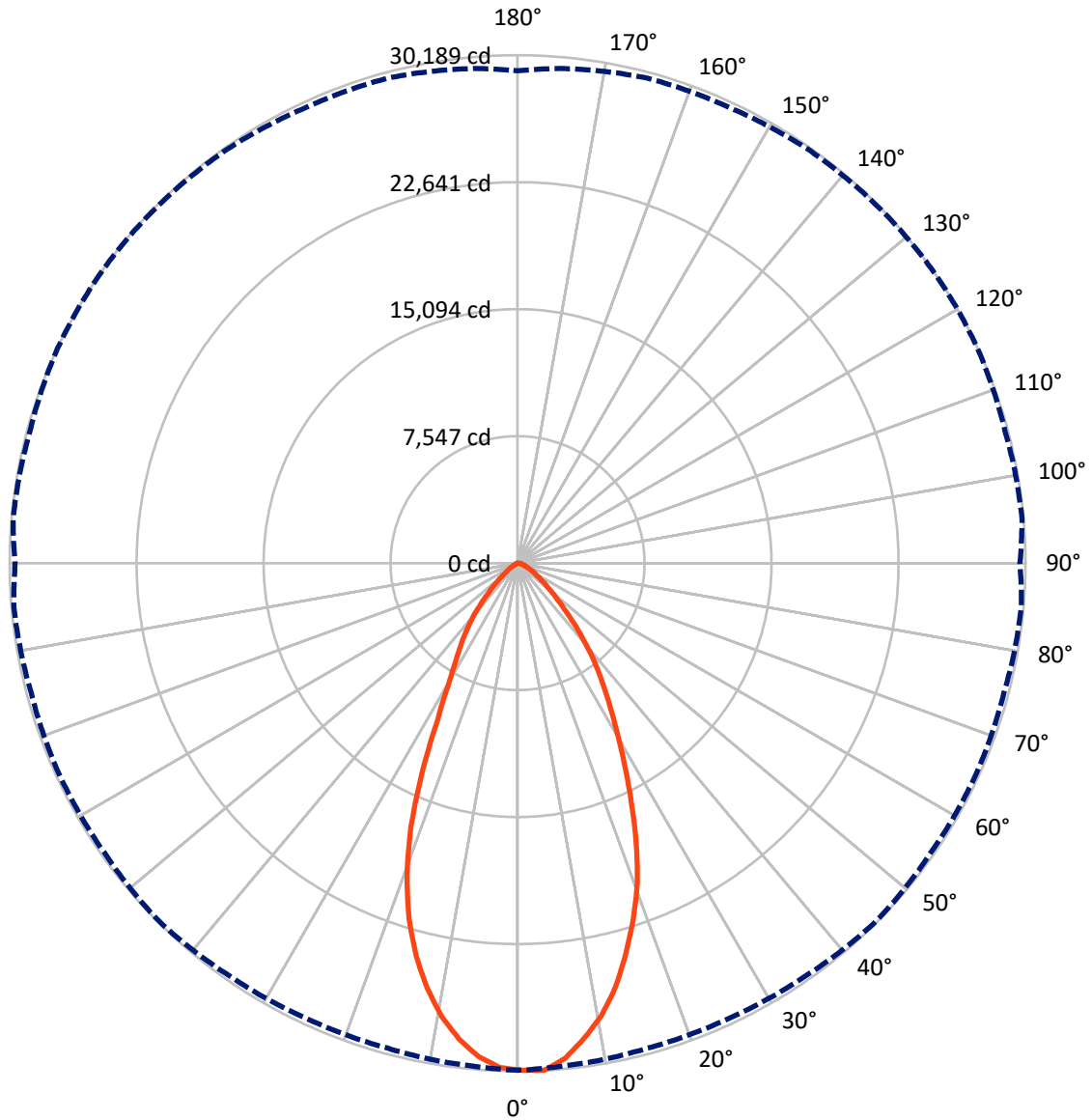
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 75.4 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	14314.7	0.0	14314.7
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	10912.1	0.0	10912.1
	% Fixture	43.3	0.0	43.3
Total	Lumens	25226.9	0.0	25226.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2736.8	10.8
10°-20°	6524.0	25.9
20°-30°	6644.6	26.3
30°-40°	4954.8	19.6
40°-50°	2588.5	10.3
50°-60°	1088.7	4.3
60°-70°	444.6	1.8
70°-80°	187.1	0.7
80°-90°	57.7	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°	25226.9	100.0
0°-180°	25226.9	100.0



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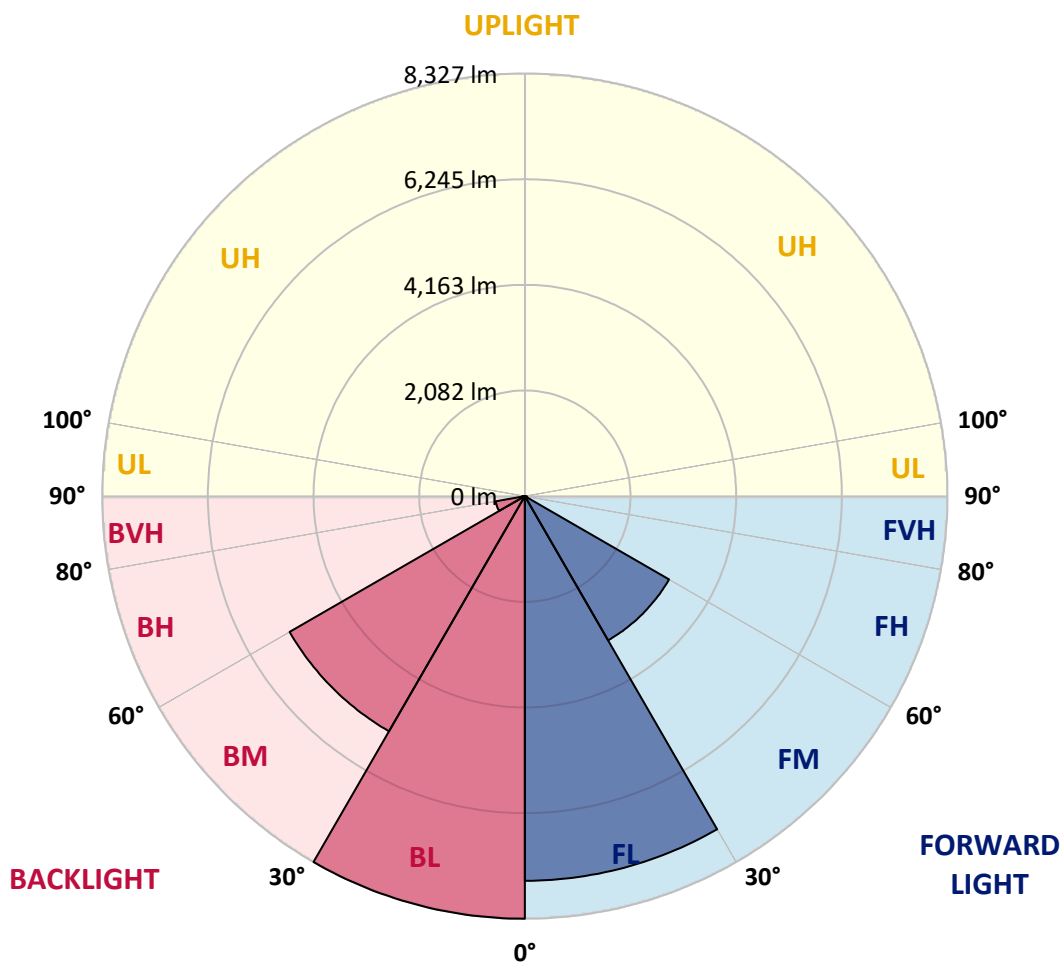
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7578.5	30.0			
FM (30°-60°)	3280.9	13.0			
FH (60°-80°)	47.5	0.2			G0/660
FVH (80°-90°)	5.4	0.0			G0/10
BL (0°-30°)	8326.9	33.0	B5		
BM (30°-60°)	5351.2	21.2	B4/8500		
BH (60°-80°)	584.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	52.3	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°	30140.0	30140.0	30140.0	30140.0	30140.0	30140.0	30140.0	30140.0	30140.0	30140.0
2.5°	30143.3	30020.1	29845.1	29828.9	29919.7	30117.3	29991.0	29997.4	29919.7	30052.5
5°	29670.2	29553.5	29433.6	29274.8	29407.7	29491.9	29427.1	29355.8	29255.4	29385.0
7.5°	28775.8	28711.0	28532.7	28461.4	28542.5	28636.4	28497.1	28477.6	28338.3	28506.8
10°	27408.3	27382.3	27207.4	27165.2	27236.5	27379.1	27317.5	27304.6	27217.1	27200.9
12.5°	25988.9	25888.5	25671.4	25658.4	25765.3	25979.2	25813.9	25655.2	25703.8	25745.9
15°	22333.6	22226.7	22764.6	23610.4	24054.3	24038.1	24086.7	23895.6	23837.2	23856.7
17.5°	17754.8	17573.3	17767.7	19076.9	21186.5	22411.4	22074.4	21662.8	21442.5	21296.7
20°	15324.4	15334.1	15298.5	15635.5	16951.1	19744.5	19663.4	18869.5	18581.1	18461.2
22.5°	13846.7	13791.6	13713.9	13820.8	14174.0	15813.7	16912.2	16183.1	16082.7	15949.8
25°	12398.2	12398.2	12304.2	12411.2	12511.6	12534.3	13636.1	13934.2	13739.8	13739.8
27.5°	11144.1	11079.3	11037.2	11085.8	10952.9	10314.6	10453.9	11980.2	11847.3	11766.3
30°	9899.8	9880.3	9809.0	9873.8	9381.3	8661.9	8370.2	10110.4	10249.7	10220.6
32.5°	8172.6	8250.3	8567.9	8668.4	7825.8	7245.8	6967.1	8392.9	8950.3	8927.6
35°	5554.2	5619.1	5982.0	7181.0	6487.5	6072.7	5991.7	6675.5	7592.5	7680.0
37.5°	4423.3	4413.6	4517.3	4731.2	5214.0	5113.5	5090.8	5269.1	6192.6	6231.5
40°	3645.6	3632.6	3629.4	3454.4	3334.5	4251.6	4190.0	4083.0	4883.5	4961.2
42.5°	2939.1	2952.1	2961.8	2579.4	2404.5	3279.4	3243.8	3133.6	3830.3	3921.0
45°	2307.2	2304.0	2323.4	1921.6	1873.0	2096.6	2423.9	2336.4	2890.5	2987.8
47.5°	1195.7	1237.9	1500.4	1487.4	1510.1	1487.4	1834.1	1811.4	2174.4	2329.9
50°	803.6	816.6	839.3	842.5	1189.3	1095.3	1244.4	1409.6	1523.0	1762.8
52.5°	622.2	631.9	573.6	537.9	729.1	810.1	816.6	975.4	1062.9	1305.9
55°	346.7	388.9	418.0	421.3	401.8	599.5	596.3	722.6	790.7	952.7
57.5°	45.4	55.1	84.3	272.2	269.0	333.8	418.0	525.0	563.8	696.7
60°	3.2	6.5	9.7	42.1	178.2	194.4	285.2	327.3	392.1	489.3
62.5°	0.0	0.0	3.2	9.7	35.6	113.4	149.1	171.7	230.1	320.8
65°	0.0	0.0	3.2	6.5	13.0	42.1	58.3	94.0	136.1	197.7
67.5°	0.0	0.0	3.2	6.5	9.7	16.2	25.9	42.1	71.3	119.9
70°	0.0	0.0	3.2	6.5	9.7	13.0	19.4	25.9	38.9	64.8
72.5°	0.0	0.0	3.2	3.2	6.5	16.2	16.2	19.4	25.9	35.6
75°	0.0	0.0	3.2	6.5	9.7	16.2	16.2	16.2	19.4	22.7
77.5°	0.0	0.0	3.2	6.5	9.7	16.2	13.0	16.2	16.2	16.2
80°	0.0	0.0	3.2	6.5	9.7	16.2	19.4	16.2	13.0	13.0
82.5°	0.0	0.0	3.2	9.7	9.7	22.7	22.7	22.7	9.7	9.7
85°	0.0	0.0	6.5	9.7	16.2	25.9	25.9	19.4	9.7	6.5
87.5°	0.0	0.0	3.2	6.5	6.5	13.0	19.4	16.2	6.5	3.2
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°
30140.0	0°	30140.0	30140.0	30140.0	30140.0	30140.0	30140.0	30140.0	30140.0	30140.0
29858.1	2.5°	30097.9	30016.9	30169.2	30188.6	30123.8	30042.8	29854.9	29838.7	29511.4
29197.0	5°	29527.6	29394.7	29491.9	29556.7	29534.0	29446.6	29368.8	29297.5	29002.6
28124.4	7.5°	28464.7	28416.1	28461.4	28510.0	28604.0	28510.0	28477.6	28403.1	28111.5
27068.0	10°	27285.1	27194.4	27366.1	27343.5	27317.5	27291.6	27155.5	27168.5	26825.0
25629.2	12.5°	25836.6	25684.3	25849.6	25869.0	25849.6	25758.8	25606.5	25671.4	25357.0
23684.9	15°	23889.1	23872.9	23992.8	24070.5	24125.6	24028.4	23976.6	24009.0	23821.0
21183.2	17.5°	21497.6	21708.2	22100.3	22233.2	22236.4	22336.9	22307.7	22268.8	22129.5
18412.6	20°	18684.8	19089.9	19692.6	20311.5	20489.8	20405.5	20366.6	20437.9	20230.5
15810.5	22.5°	16089.2	16435.9	17135.8	18039.9	18561.7	18613.5	18603.8	18542.2	18461.2
13726.8	25°	13885.6	14193.5	14864.2	15690.6	16691.9	16841.0	16847.4	16828.0	16756.7
11837.6	27.5°	12025.5	12398.2	12767.6	13506.5	14572.6	15188.3	15110.5	15087.8	15061.9
10243.3	30°	10340.5	10810.4	11157.1	11617.2	12573.2	13406.0	13487.0	13448.1	13386.6
8924.4	32.5°	9005.4	9284.1	9724.8	10035.9	10722.9	11665.9	11976.9	11947.8	11892.7
7735.1	35°	7845.3	7955.5	8302.2	8648.9	9105.8	10019.7	10479.8	10415.0	10405.3
6302.8	37.5°	6461.6	6831.0	7022.2	7372.2	7693.0	8402.7	9037.8	9008.6	9011.9
5068.2	40°	5217.2	5431.1	5810.2	6105.1	6400.0	6918.5	7624.9	7644.4	7637.9
3924.3	42.5°	4005.3	4212.7	4611.3	4932.1	5194.5	5515.4	6189.4	6212.1	6241.2
3055.8	45°	3127.1	3260.0	3551.6	3885.4	4164.1	4358.5	4870.5	5016.3	5019.6
2368.8	47.5°	2427.1	2579.4	2786.8	3107.7	3379.9	3519.2	3891.9	4089.5	4079.8
1817.9	50°	1905.4	2044.8	2213.3	2466.0	2760.9	2871.1	3146.5	3341.0	3331.2
1370.7	52.5°	1458.2	1636.5	1785.5	1980.0	2268.4	2362.3	2560.0	2783.6	2751.2
1004.6	55°	1105.0	1286.5	1425.8	1587.9	1850.3	1970.2	2106.3	2284.6	2291.0
777.7	57.5°	832.8	1020.8	1147.1	1312.4	1510.1	1642.9	1746.6	1937.8	1934.6
531.4	60°	596.3	758.3	910.6	1082.3	1234.6	1386.9	1458.2	1639.7	1646.2
375.9	62.5°	431.0	583.3	729.1	878.2	1014.3	1163.3	1228.2	1370.7	1390.2
246.3	65°	301.4	408.3	576.8	690.2	842.5	952.7	1037.0	1160.1	1182.8
145.8	67.5°	194.4	294.9	456.9	557.4	696.7	790.7	878.2	975.4	1004.6
94.0	70°	116.7	223.6	340.3	447.2	573.6	657.8	742.1	826.3	842.5
45.4	72.5°	74.5	155.5	246.3	362.9	460.2	550.9	625.4	687.0	638.4
29.2	75°	42.1	106.9	194.4	285.2	372.7	460.2	521.7	554.1	444.0
19.4	77.5°	25.9	77.8	158.8	230.1	288.4	369.4	408.3	427.7	317.6
13.0	80°	16.2	58.3	132.9	187.9	187.9	272.2	317.6	333.8	230.1
9.7	82.5°	13.0	42.1	103.7	142.6	126.4	204.2	249.5	252.8	162.0
6.5	85°	9.7	32.4	64.8	94.0	87.5	142.6	145.8	162.0	106.9
6.5	87.5°	6.5	19.4	38.9	55.1	48.6	68.1	77.8	87.5	58.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
30140.0
29255.4
28766.0
28049.9
26708.3
25266.3
23594.2
21922.1
20081.5
18305.7
16516.9
14909.6
13308.8
11746.9
10298.4
8908.2
7524.5
6144.0
4935.3
4044.2
3331.2
2754.4
2291.0
1928.1
1630.0
1383.7
1176.3
1001.3
829.6
593.0
421.3
298.1
213.9
149.1
97.2
51.8
0.0

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