

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: P636583

Luminaire Tested: **IFLD-L-SA7A-927-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636583
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-927-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15778 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

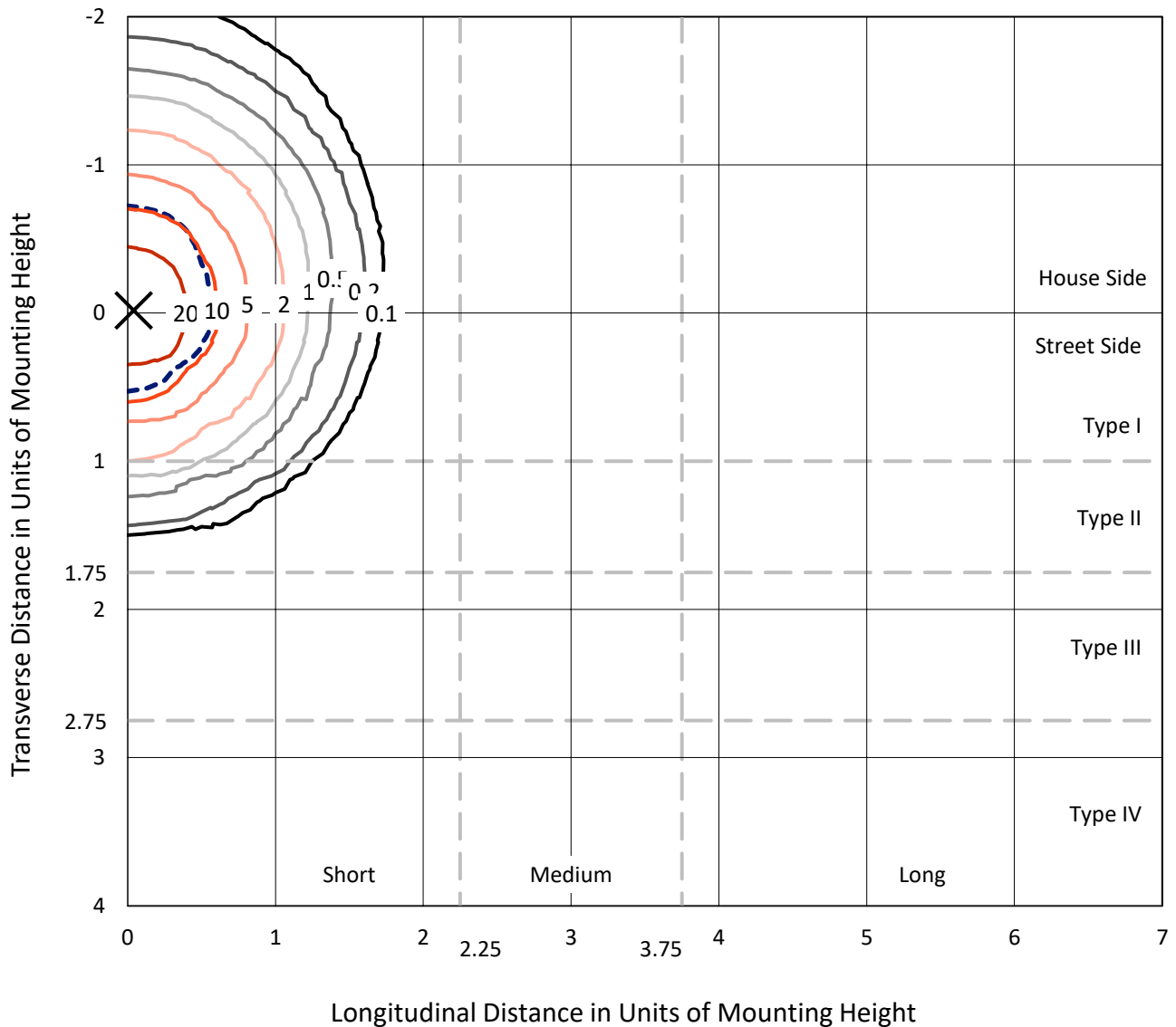
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

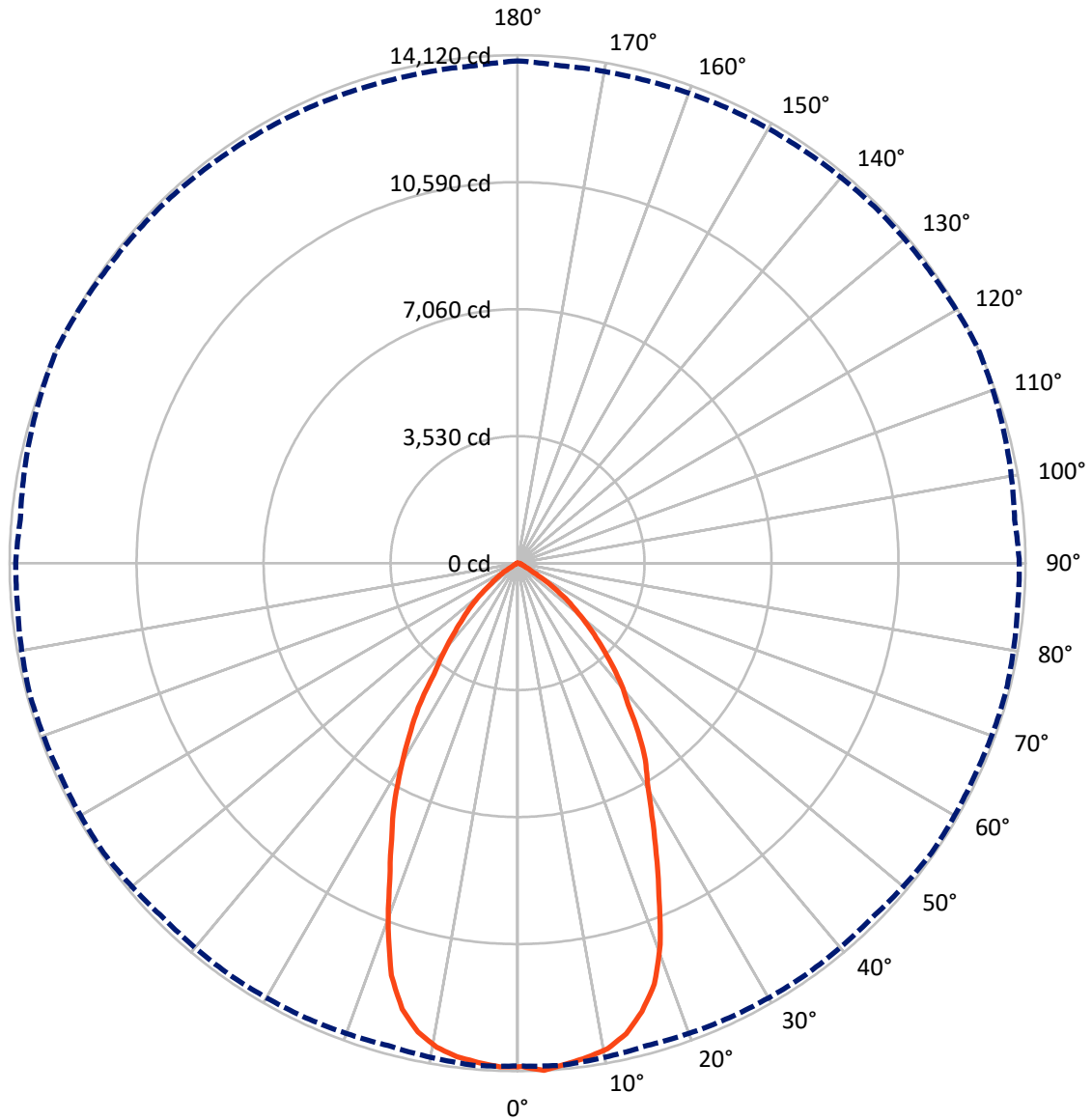
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 35 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9029.5	0.0	9029.5
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	6748.5	0.0	6748.5
	% Fixture	42.8	0.0	42.8
Total	Lumens	15778.0	0.0	15778.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1318.5	8.4
10°-20°	3496.1	22.2
20°-30°	3998.8	25.3
30°-40°	3426.8	21.7
40°-50°	2266.0	14.4
50°-60°	988.8	6.3
60°-70°	194.3	1.2
70°-80°	70.1	0.4
80°-90°	18.6	0.1
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°	15778.0	100.0
0°-180°	15778.0	100.0



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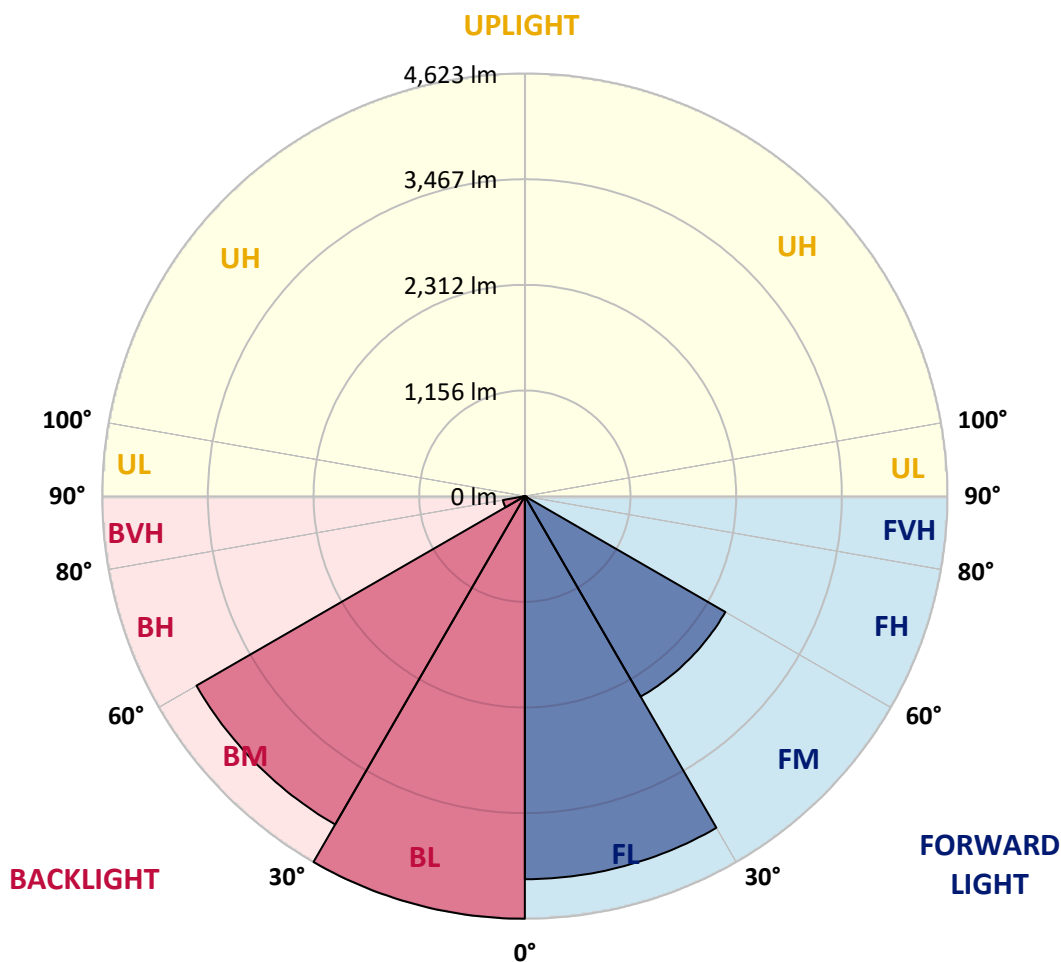
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4190.3	26.6			
FM (30°-60°)	2533.6	16.1			
FH (60°-80°)	21.5	0.1			G0/660
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	4623.1	29.3	B4/5000		
BM (30°-60°)	4148.0	26.3	B3/5000		
BH (60°-80°)	242.9	1.5	B1/500		G1/500
BVH (80°-90°)	15.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13999.1	13999.1	13999.1	13999.1	13999.1	13999.1	13999.1	13999.1	13999.1	13999.1
2.5°	13978.9	14012.5	13885.0	13942.0	13965.5	13935.3	14046.0	14012.5	14039.3	13955.5
5°	13978.9	14012.5	13864.9	13891.7	13898.4	13841.4	13962.2	13921.9	13925.3	13838.1
7.5°	13891.7	13932.0	13797.8	13817.9	13821.3	13774.3	13878.3	13821.3	13801.2	13710.6
10°	13657.0	13680.4	13559.7	13610.0	13657.0	13613.4	13703.9	13640.2	13640.2	13559.7
12.5°	13284.7	13328.3	13194.1	13254.5	13294.7	13244.4	13348.4	13324.9	13328.3	13247.8
15°	12607.2	12456.3	12617.3	12738.0	12741.3	12731.3	12828.6	12805.1	12821.8	12701.1
17.5°	9313.7	9276.8	9464.6	10890.0	11949.8	12094.1	12110.8	11983.4	11926.4	11809.0
20°	8629.5	8656.3	8616.1	8622.8	9457.9	11191.9	11087.9	10772.6	10628.4	10511.0
22.5°	8129.8	8086.2	8059.3	8042.6	8066.1	9196.3	9944.2	9468.0	9390.8	9333.8
25°	7586.5	7566.3	7532.8	7526.1	7512.7	7321.5	8398.1	8441.7	8317.6	8247.2
27.5°	7080.0	7066.6	7029.7	7026.4	6872.1	6409.2	6526.6	7563.0	7529.4	7502.6
30°	6540.0	6513.2	6493.1	6493.1	6026.9	5550.7	5359.5	6593.7	6593.7	6570.2
32.5°	5953.1	5929.6	5936.3	5855.9	5299.1	4863.1	4561.3	5691.5	6043.7	6023.5
35°	3638.9	3632.2	4313.1	5208.6	4554.6	4158.8	4138.7	4869.8	5383.0	5436.6
37.5°	3239.8	3219.7	3229.8	3286.8	3900.6	3742.9	3736.2	3860.3	4581.4	4608.2
40°	2907.8	2894.4	2884.3	2679.7	2485.2	3340.5	3317.0	3236.5	3914.0	3960.9
42.5°	2592.5	2579.1	2579.1	2290.7	1975.4	2746.8	2756.9	2663.0	3300.2	3317.0
45°	2267.2	2257.2	2200.1	1827.9	1737.3	1824.5	2284.0	2176.7	2619.4	2793.8
47.5°	1069.9	1063.2	1539.4	1519.3	1512.6	1458.9	1744.0	1804.4	2079.4	2253.8
50°	858.6	851.9	811.6	714.4	1244.3	1106.8	1257.7	1388.5	1475.7	1636.7
52.5°	711.0	704.3	620.5	550.0	690.9	808.3	751.3	929.0	925.7	1100.1
55°	466.2	432.6	476.2	449.4	362.2	586.9	573.5	704.3	687.5	838.5
57.5°	10.1	10.1	23.5	254.9	228.1	248.2	328.7	402.5	452.8	496.4
60°	3.4	3.4	6.7	13.4	93.9	104.0	127.4	147.6	207.9	258.2
62.5°	0.0	0.0	3.4	6.7	13.4	53.7	60.4	70.4	97.3	134.2
65°	0.0	0.0	0.0	3.4	6.7	13.4	20.1	43.6	60.4	77.1
67.5°	0.0	0.0	0.0	3.4	3.4	6.7	13.4	20.1	26.8	53.7
70°	0.0	0.0	0.0	3.4	3.4	6.7	10.1	13.4	20.1	26.8
72.5°	0.0	0.0	0.0	3.4	3.4	10.1	6.7	10.1	13.4	16.8
75°	0.0	0.0	0.0	3.4	3.4	3.4	6.7	10.1	10.1	13.4
77.5°	0.0	0.0	0.0	3.4	6.7	6.7	6.7	6.7	6.7	10.1
80°	0.0	0.0	0.0	3.4	3.4	6.7	10.1	13.4	6.7	6.7
82.5°	0.0	0.0	0.0	6.7	3.4	13.4	20.1	16.8	6.7	3.4
85°	0.0	0.0	0.0	3.4	13.4	16.8	16.8	10.1	3.4	3.4
87.5°	0.0	0.0	0.0	3.4	3.4	6.7	10.1	10.1	3.4	3.4
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°
13999.1	0°	13999.1	13999.1	13999.1	13999.1	13999.1	13999.1	13999.1	13999.1	13999.1
13948.7	2.5°	13871.6	14002.4	14119.8	14046.0	14019.2	13965.5	13925.3	13881.7	13878.3
13828.0	5°	13750.9	13875.0	13989.0	13901.8	13908.5	13881.7	13854.8	13844.8	13851.5
13703.9	7.5°	13646.9	13750.9	13875.0	13801.2	13821.3	13804.5	13791.1	13771.0	13801.2
13542.9	10°	13489.3	13583.2	13727.4	13657.0	13646.9	13630.1	13616.7	13579.8	13596.6
13251.1	12.5°	13143.8	13261.2	13425.5	13345.0	13371.9	13324.9	13304.8	13281.3	13284.7
12744.7	15°	12674.3	12764.8	12932.5	12868.8	12888.9	12858.7	12858.7	12858.7	12882.2
11825.7	17.5°	11855.9	12040.4	12305.3	12224.9	12255.0	12261.7	12255.0	12278.5	12308.7
10517.7	20°	10524.4	10839.7	11322.7	11480.3	11544.0	11547.4	11500.4	11557.4	11617.8
9293.6	22.5°	9300.3	9632.3	10058.3	10490.9	10759.2	10745.8	10752.5	10789.4	10853.1
8203.6	25°	8240.5	8559.1	8944.8	9330.5	9917.4	10038.1	10041.5	10075.0	10125.3
7459.0	27.5°	7475.8	7599.9	7952.0	8341.1	8971.6	9357.3	9337.2	9367.4	9421.0
6526.6	30°	6553.5	7029.7	7110.2	7348.3	7891.7	8599.3	8602.7	8636.2	8689.9
5976.6	32.5°	5959.8	6275.1	6523.3	6530.0	6992.8	7720.6	7864.8	7898.4	7935.3
5406.4	35°	5403.1	5440.0	5775.4	5869.3	6137.6	6858.7	7113.6	7133.7	7194.0
4598.2	37.5°	4675.3	4893.3	4987.2	5322.6	5336.0	5919.6	6426.0	6405.9	6452.8
3957.6	40°	4007.9	4215.8	4453.9	4698.8	4732.3	5168.3	5728.4	5748.5	5768.7
3283.4	42.5°	3310.3	3575.2	3820.1	3984.4	4212.5	4464.0	4997.3	5091.2	5138.1
2813.9	45°	2864.2	2938.0	3229.8	3471.3	3702.7	3820.1	4319.8	4490.8	4521.0
2227.0	47.5°	2257.2	2505.3	2703.2	2907.8	3196.2	3300.2	3662.4	3900.6	3924.0
1653.5	50°	1744.0	1921.8	2193.4	2377.9	2713.3	2770.3	3018.5	3327.0	3357.2
1106.8	52.5°	1247.6	1489.1	1754.1	1931.8	2253.8	2327.6	2512.0	2807.2	2827.3
848.5	55°	895.5	1053.1	1271.1	1526.0	1760.8	1925.1	2052.6	2334.3	2361.1
556.7	57.5°	610.4	758.0	848.5	1103.4	1244.3	1422.0	1526.0	1740.7	1760.8
265.0	60°	291.8	362.2	432.6	560.1	650.7	801.6	868.7	955.9	979.3
161.0	62.5°	187.8	221.4	281.7	335.4	422.6	516.5	543.3	617.1	643.9
100.6	65°	124.1	157.6	221.4	234.8	322.0	395.8	429.3	483.0	513.1
60.4	67.5°	70.4	110.7	164.3	194.5	254.9	325.3	362.2	409.2	436.0
40.2	70°	47.0	90.6	130.8	161.0	201.2	261.6	308.6	348.8	365.6
20.1	72.5°	26.8	57.0	90.6	127.4	161.0	218.0	261.6	295.1	194.5
13.4	75°	16.8	43.6	77.1	107.3	134.2	174.4	211.3	207.9	87.2
10.1	77.5°	13.4	33.5	67.1	90.6	110.7	120.7	150.9	171.0	67.1
6.7	80°	10.1	26.8	60.4	77.1	43.6	87.2	117.4	127.4	47.0
6.7	82.5°	6.7	16.8	50.3	53.7	30.2	63.7	93.9	83.8	33.5
3.4	85°	3.4	10.1	16.8	30.2	26.8	30.2	23.5	33.5	23.5
3.4	87.5°	3.4	6.7	13.4	13.4	13.4	10.1	13.4	13.4	13.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13999.1
13958.8
13935.3
13885.0
13677.1
13381.9
12892.3
12409.3
11658.0
10863.2
10212.5
9471.3
8783.8
8019.1
7257.8
6509.9
5832.4
5205.2
4594.8
3981.0
3400.8
2864.2
2384.6
1801.0
1006.2
650.7
513.1
432.6
362.2
157.6
87.2
67.1
50.3
33.5
23.5
13.4
0.0

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