

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: P637470

Luminaire Tested: **IFLD-S-SA3D-827-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637470
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-827-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (48) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16524.5 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

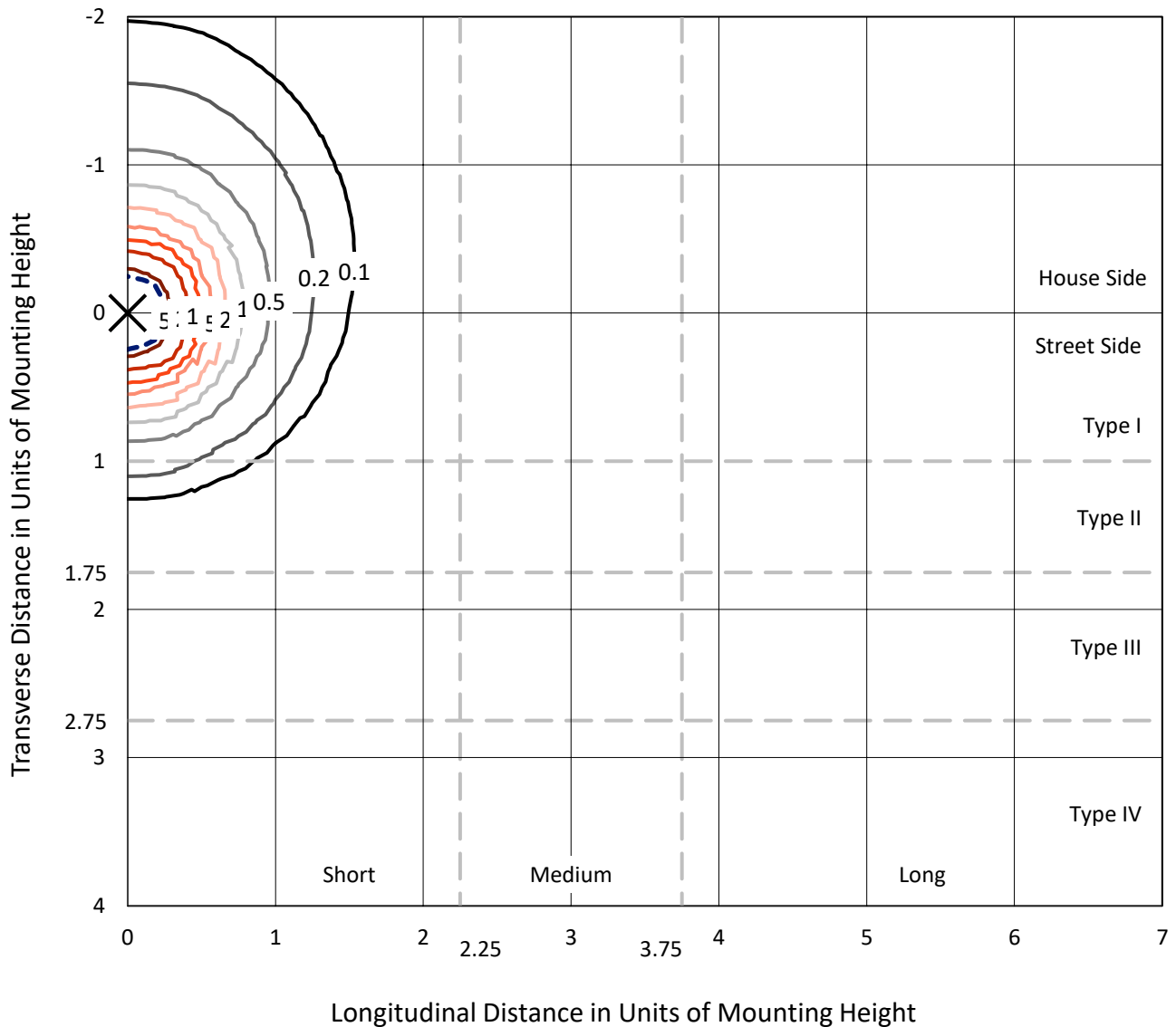
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

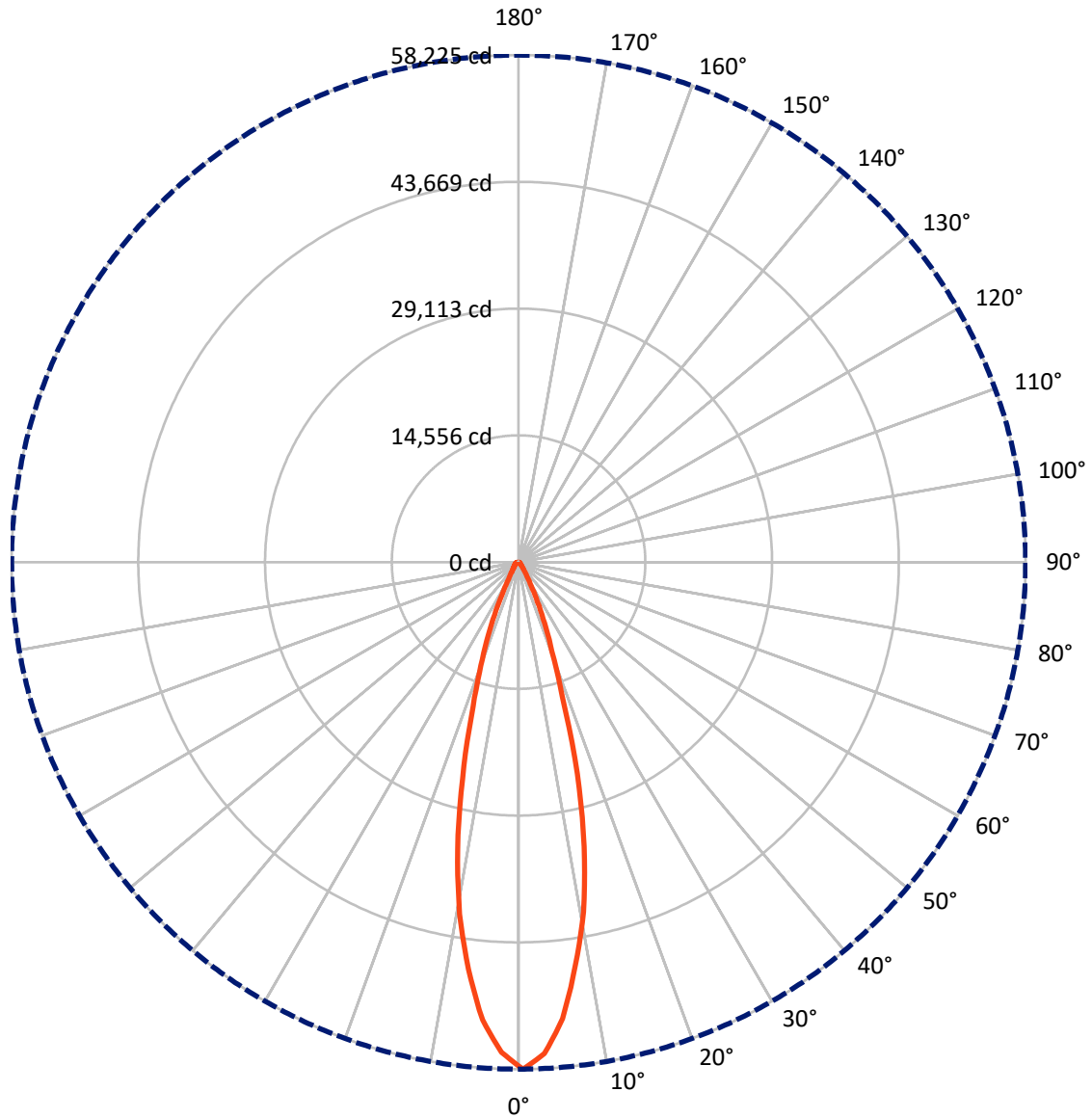
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 145.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8712.8	0.0	8712.8
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	7811.7	0.0	7811.7
	% Fixture	47.3	0.0	47.3
Total	Lumens	16524.5	0.0	16524.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4699.3	28.4
10°-20°	7117.0	43.1
20°-30°	3003.4	18.2
30°-40°	783.3	4.7
40°-50°	396.2	2.4
50°-60°	259.0	1.6
60°-70°	155.2	0.9
70°-80°	81.6	0.5
80°-90°	29.5	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°	16524.5	100.0
0°-180°	16524.5	100.0



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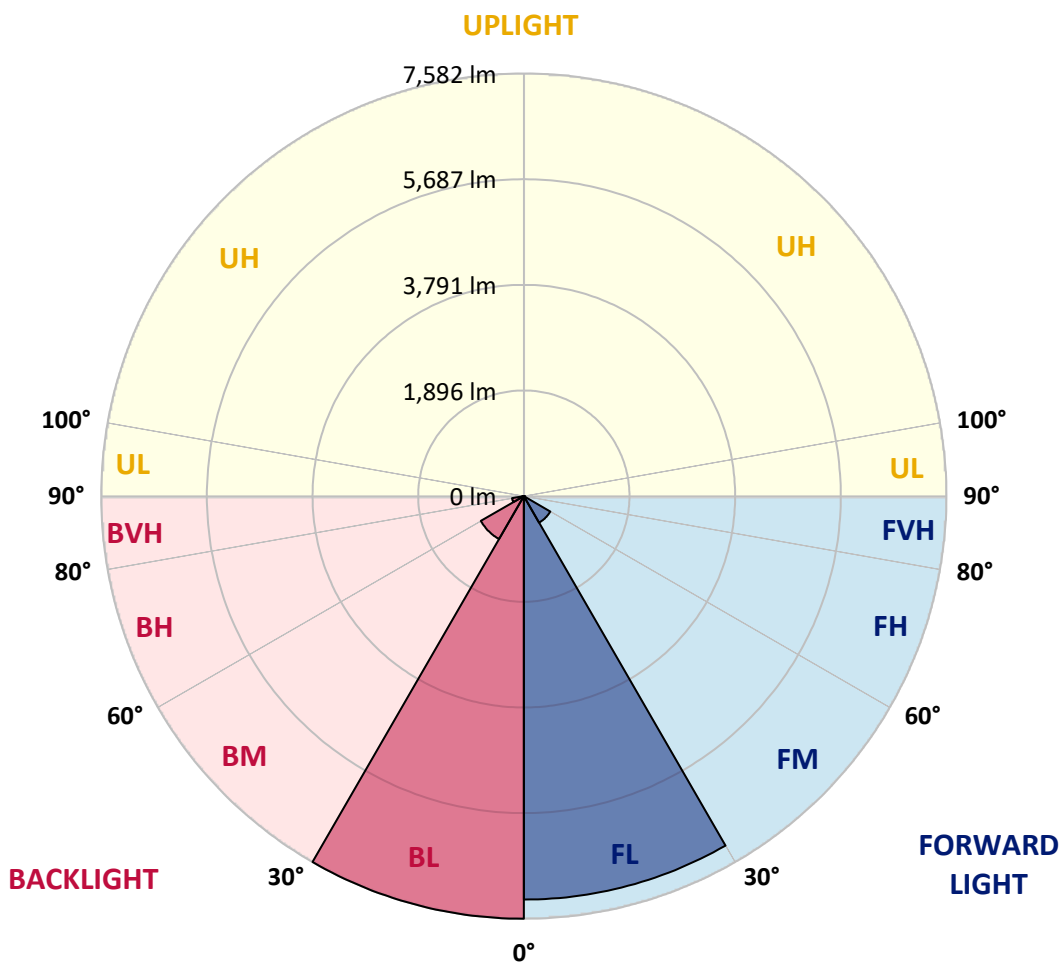
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7237.6	43.8			
FM (30°-60°)	548.1	3.3			
FH (60°-80°)	22.3	0.1			G0/660
FVH (80°-90°)	3.6	0.0			G0/10
BL (0°-30°)	7582.1	45.9	B5		
BM (30°-60°)	890.4	5.4	B1/1000		
BH (60°-80°)	214.4	1.3	B1/500		G0/660
BVH (80°-90°)	25.9	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	58225.1	58225.1	58225.1	58225.1	58225.1	58225.1	58225.1	58225.1	58225.1	58225.1
2.5°	56529.0	56560.5	56443.6	56696.0	56499.3	57026.3	56764.6	57172.9	57035.6	57263.8
5°	52669.1	52617.1	52583.7	52975.3	52862.1	53428.1	53066.2	52947.4	53314.9	53248.0
7.5°	46840.2	46977.6	46899.6	47001.7	47059.2	47705.0	47909.1	47749.5	47755.1	47847.9
10°	40864.8	40662.5	40374.9	40566.1	40970.6	41252.7	41139.5	41373.3	41321.3	41542.2
12.5°	33512.5	33672.0	33510.6	33339.9	34046.9	33969.0	34165.7	34293.7	33972.7	34687.1
15°	25243.4	25326.9	25523.6	25510.6	26054.3	26163.8	26137.8	26273.3	26022.8	26141.5
17.5°	16217.1	16499.2	17028.1	17922.5	18928.3	19045.3	19015.6	18904.2	18783.6	18650.0
20°	10893.1	10863.4	11054.5	11316.2	13398.3	13949.5	13932.8	13583.9	13079.1	12982.6
22.5°	7630.7	7686.4	7660.4	7920.2	8350.7	9870.6	9683.1	9328.7	9163.5	9055.9
25°	5019.7	4999.3	5129.2	5207.2	5576.4	5762.0	6418.9	6287.2	6032.9	6060.8
27.5°	3060.1	3086.1	3134.3	3201.1	3462.8	3403.4	3778.2	3828.4	3746.7	3659.5
30°	1878.0	1896.5	1935.5	1983.8	2074.7	2009.7	2113.7	2293.7	2264.0	2202.7
32.5°	1274.9	1276.7	1304.6	1323.1	1312.0	1250.8	1284.2	1454.9	1458.6	1453.0
35°	916.7	916.7	942.7	957.6	926.0	875.9	881.5	987.2	1033.6	1042.9
37.5°	632.8	634.7	679.2	723.7	688.5	675.5	653.2	723.7	798.0	809.1
40°	480.6	478.8	501.0	534.4	538.2	514.0	521.5	566.0	642.1	651.4
42.5°	389.7	391.6	402.7	399.0	400.8	432.4	443.5	463.9	534.4	551.1
45°	328.5	330.3	335.9	317.3	309.9	358.2	373.0	384.1	443.5	463.9
47.5°	270.9	274.6	280.2	259.8	256.1	287.6	313.6	324.8	376.7	399.0
50°	194.9	198.6	219.0	207.8	219.0	226.4	261.7	278.4	313.6	343.3
52.5°	141.0	144.7	150.3	152.2	180.0	183.7	209.7	235.7	252.4	285.8
55°	111.3	115.1	111.3	107.6	131.8	152.2	161.4	189.3	202.3	241.2
57.5°	63.1	66.8	72.4	83.5	87.2	116.9	126.2	150.3	161.4	198.6
60°	11.1	13.0	20.4	50.1	61.2	74.2	94.6	115.1	129.9	155.9
62.5°	1.9	1.9	3.7	11.1	35.3	52.0	68.7	81.7	94.6	118.8
65°	0.0	0.0	1.9	3.7	9.3	29.7	37.1	48.2	65.0	85.4
67.5°	0.0	0.0	1.9	3.7	5.6	11.1	16.7	29.7	37.1	57.5
70°	0.0	0.0	1.9	3.7	5.6	7.4	9.3	13.0	22.3	35.3
72.5°	0.0	0.0	1.9	3.7	5.6	7.4	9.3	11.1	11.1	22.3
75°	0.0	0.0	1.9	3.7	5.6	9.3	11.1	11.1	9.3	9.3
77.5°	0.0	0.0	1.9	3.7	7.4	11.1	13.0	11.1	7.4	7.4
80°	0.0	0.0	3.7	5.6	9.3	13.0	16.7	13.0	7.4	3.7
82.5°	0.0	0.0	3.7	7.4	9.3	14.8	20.4	16.7	7.4	3.7
85°	0.0	0.0	1.9	5.6	11.1	14.8	20.4	14.8	7.4	1.9
87.5°	0.0	0.0	1.9	1.9	3.7	5.6	11.1	9.3	3.7	1.9
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°
58225.1	0°	58225.1	58225.1	58225.1	58225.1	58225.1	58225.1	58225.1	58225.1	58225.1
56831.4	2.5°	57158.0	57455.0	57516.2	57434.6	57553.3	57339.9	57176.6	56753.5	56499.3
53227.6	5°	53570.9	53526.4	53836.3	53938.4	53925.4	53762.1	53533.8	53277.7	53029.1
47667.9	7.5°	47964.8	48022.3	48304.4	48484.4	48393.5	48189.4	48031.6	47838.6	47671.6
41622.0	10°	42002.4	41607.1	41957.8	41957.8	42200.9	41623.8	41677.6	41191.4	41213.7
34674.1	12.5°	34792.9	34935.8	34993.3	35158.5	34874.6	34568.4	34193.5	34119.3	33887.3
25915.1	15°	26288.1	26696.4	26345.7	26945.1	26655.6	26336.4	26278.9	25703.6	25885.4
18796.6	17.5°	18703.8	19154.7	19295.8	19639.1	19375.6	19186.3	18946.9	18772.5	18759.5
13158.9	20°	13262.8	13715.6	13819.6	14231.5	14201.8	14142.4	13940.2	13719.3	13480.0
8957.6	22.5°	9093.0	9462.3	9807.5	10362.3	10353.1	10178.6	10158.2	9846.5	9852.0
6051.5	25°	6114.6	6383.7	6465.3	7033.2	7096.3	7077.7	6971.9	6682.4	6791.9
3696.6	27.5°	3700.3	3936.0	4212.5	4412.9	4602.2	4572.5	4466.7	4305.3	4234.8
2221.3	30°	2280.7	2386.5	2488.5	2729.8	2843.0	2902.3	2852.2	2701.9	2713.1
1462.3	32.5°	1493.9	1582.9	1657.2	1809.3	1868.7	1978.2	1957.8	1926.2	1889.1
1052.2	35°	1089.3	1154.3	1204.4	1274.9	1351.0	1443.8	1458.6	1445.6	1430.8
812.8	37.5°	831.4	898.2	955.7	985.4	1044.8	1117.1	1158.0	1156.1	1145.0
662.5	40°	675.5	725.6	777.5	816.5	857.3	911.2	961.3	966.8	966.8
556.7	42.5°	564.1	606.8	658.8	699.6	729.3	779.4	831.4	835.1	831.4
471.4	45°	482.5	519.6	569.7	618.0	642.1	679.2	729.3	740.4	733.0
404.5	47.5°	419.4	452.8	495.5	547.4	573.4	606.8	653.2	666.2	664.3
348.9	50°	360.0	399.0	441.7	484.3	517.7	549.3	593.8	608.7	603.1
296.9	52.5°	317.3	352.6	389.7	436.1	475.1	502.9	538.2	564.1	556.7
250.5	55°	265.4	308.0	347.0	386.0	434.2	463.9	497.3	528.9	521.5
211.6	57.5°	230.1	265.4	309.9	345.2	393.4	428.7	462.1	495.5	493.6
172.6	60°	193.0	230.1	272.8	309.9	354.4	393.4	426.8	463.9	467.6
129.9	62.5°	152.2	196.7	233.8	276.5	321.0	363.7	393.4	430.5	436.1
98.4	65°	115.1	161.4	202.3	243.1	287.6	334.0	360.0	391.6	397.1
72.4	67.5°	85.4	124.3	172.6	209.7	256.1	300.6	324.8	350.7	360.0
44.5	70°	65.0	94.6	144.7	180.0	228.3	263.5	289.5	311.8	319.2
29.7	72.5°	40.8	74.2	116.9	154.0	196.7	228.3	246.8	259.8	270.9
16.7	75°	27.8	57.5	94.6	131.8	163.3	187.4	204.1	215.3	224.5
7.4	77.5°	16.7	44.5	77.9	109.5	129.9	148.5	165.2	172.6	178.1
5.6	80°	9.3	33.4	65.0	89.1	102.1	115.1	128.0	137.3	141.0
3.7	82.5°	5.6	26.0	52.0	68.7	74.2	87.2	100.2	105.8	105.8
1.9	85°	3.7	18.6	35.3	50.1	53.8	63.1	66.8	70.5	74.2
1.9	87.5°	3.7	11.1	22.3	27.8	29.7	33.4	35.3	39.0	42.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
58225.1
56311.8
52750.7
47105.6
40996.6
33675.8
25703.6
18414.3
13376.0
9744.4
6619.4
4173.5
2664.8
1876.1
1425.2
1139.4
955.7
827.7
733.0
660.6
599.4
554.9
525.2
495.5
469.5
439.8
402.7
363.7
322.9
269.1
222.7
176.3
137.3
103.9
72.4
40.8
0.0

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