

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: P638015

Luminaire Tested: **IFLD-S-SA2C-830-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638015
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-830-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9523.2 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

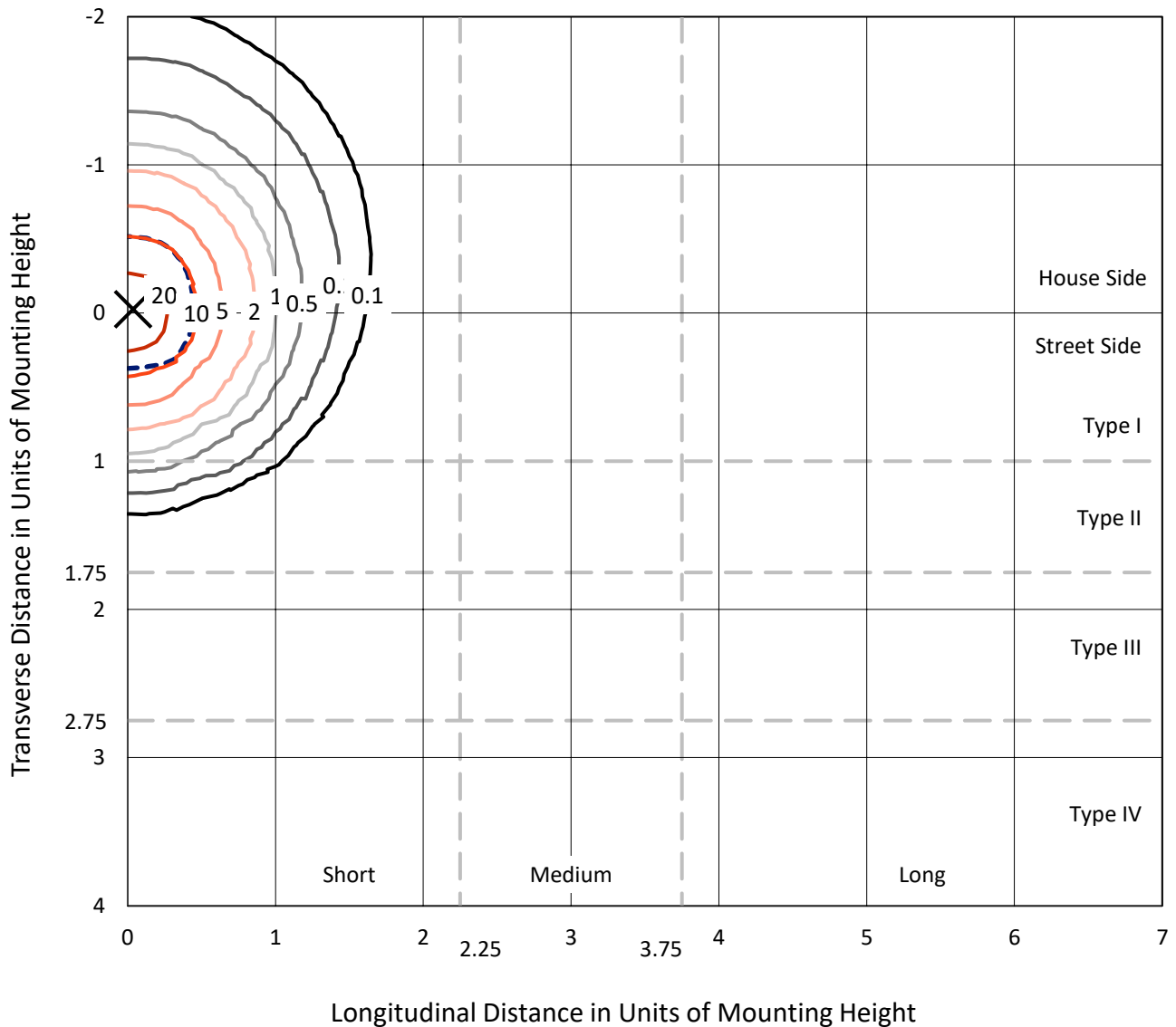
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

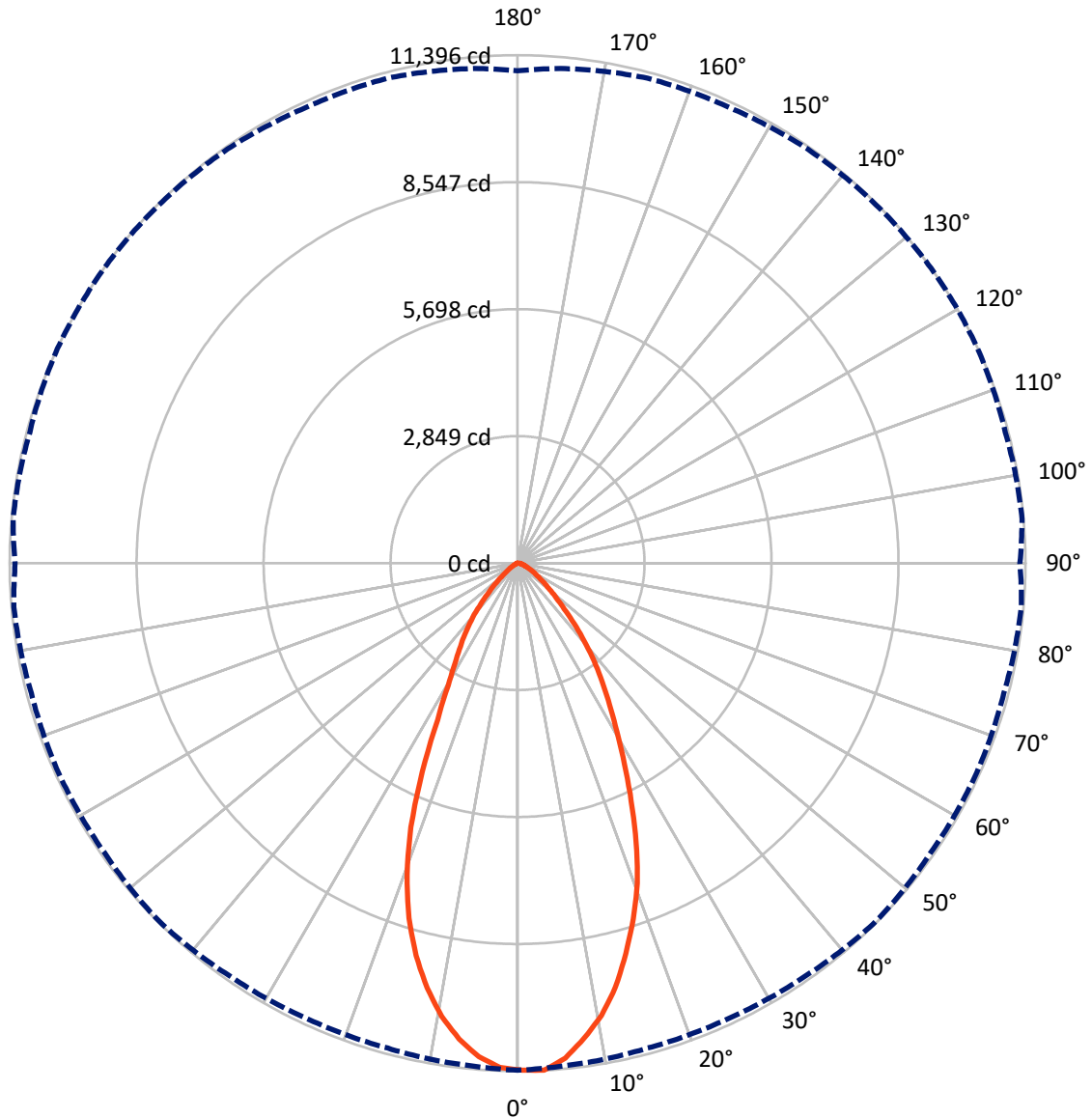
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 28.4 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	5403.8	0.0	5403.8
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	4119.4	0.0	4119.4
	% Fixture	43.3	0.0	43.3
Total	Lumens	9523.2	0.0	9523.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1033.2	10.8
10°-20°	2462.8	25.9
20°-30°	2508.3	26.3
30°-40°	1870.5	19.6
40°-50°	977.2	10.3
50°-60°	411.0	4.3
60°-70°	167.9	1.8
70°-80°	70.6	0.7
80°-90°	21.8	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°	9523.2	100.0
0°-180°	9523.2	100.0



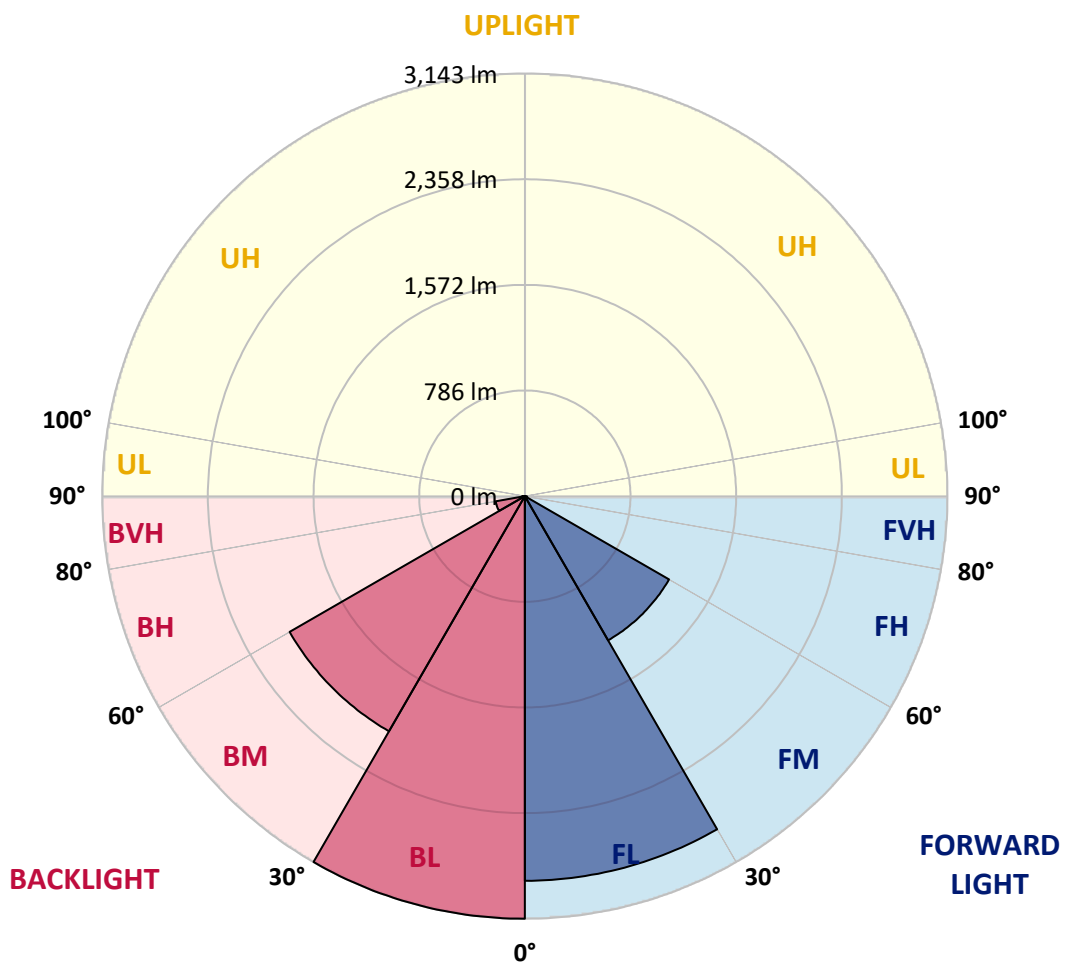
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2860.9	30.0			
FM (30°-60°)	1238.5	13.0			
FH (60°-80°)	17.9	0.2			G0/660
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	3143.4	33.0	B4/5000		
BM (30°-60°)	2020.1	21.2	B2/2500		
BH (60°-80°)	220.6	2.3	B1/500		G1/500
BVH (80°-90°)	19.7	0.2			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°	11377.9	11377.9	11377.9	11377.9	11377.9	11377.9	11377.9	11377.9	11377.9	11377.9
2.5°	11379.2	11332.7	11266.6	11260.5	11294.7	11369.4	11321.7	11324.1	11294.7	11344.9
5°	11200.6	11156.5	11111.3	11051.3	11101.5	11133.3	11108.8	11081.9	11044.0	11092.9
7.5°	10862.9	10838.5	10771.2	10744.3	10774.8	10810.3	10757.7	10750.4	10697.8	10761.4
10°	10346.7	10336.9	10270.8	10254.9	10281.9	10335.7	10312.4	10307.5	10274.5	10268.4
12.5°	9810.9	9773.0	9691.0	9686.1	9726.5	9807.2	9744.8	9684.9	9703.2	9719.1
15°	8431.0	8390.6	8593.7	8913.0	9080.6	9074.5	9092.8	9020.6	8998.6	9006.0
17.5°	6702.5	6634.0	6707.4	7201.6	7997.9	8460.4	8333.1	8177.8	8094.6	8039.5
20°	5785.0	5788.7	5775.2	5902.4	6399.1	7453.6	7423.0	7123.3	7014.4	6969.2
22.5°	5227.2	5206.4	5177.0	5217.4	5350.7	5969.7	6384.4	6109.2	6071.2	6021.1
25°	4680.4	4680.4	4644.9	4685.2	4723.2	4731.7	5147.7	5260.2	5186.8	5186.8
27.5°	4206.9	4182.5	4166.6	4184.9	4134.8	3893.8	3946.4	4522.5	4472.4	4441.8
30°	3737.2	3729.8	3702.9	3727.4	3541.5	3269.9	3159.8	3816.7	3869.3	3858.3
32.5°	3085.2	3114.5	3234.4	3272.3	2954.3	2735.3	2630.1	3168.4	3378.8	3370.2
35°	2096.7	2121.2	2258.2	2710.8	2449.1	2292.5	2261.9	2520.0	2866.2	2899.2
37.5°	1669.8	1666.1	1705.3	1786.0	1968.3	1930.4	1921.8	1989.1	2337.7	2352.4
40°	1376.2	1371.3	1370.1	1304.0	1258.8	1605.0	1581.7	1541.4	1843.5	1872.9
42.5°	1109.5	1114.4	1118.1	973.7	907.7	1238.0	1224.5	1182.9	1445.9	1480.2
45°	871.0	869.8	877.1	725.4	707.1	791.5	915.0	882.0	1091.2	1127.9
47.5°	451.4	467.3	566.4	561.5	570.1	561.5	692.4	683.8	820.8	879.6
50°	303.4	308.3	316.8	318.1	449.0	413.5	469.7	532.1	575.0	665.5
52.5°	234.9	238.5	216.5	203.1	275.2	305.8	308.3	368.2	401.2	493.0
55°	130.9	146.8	157.8	159.0	151.7	226.3	225.1	272.8	298.5	359.7
57.5°	17.1	20.8	31.8	102.8	101.5	126.0	157.8	198.2	212.9	263.0
60°	1.2	2.4	3.7	15.9	67.3	73.4	107.7	123.6	148.0	184.7
62.5°	0.0	0.0	1.2	3.7	13.5	42.8	56.3	64.8	86.9	121.1
65°	0.0	0.0	1.2	2.4	4.9	15.9	22.0	35.5	51.4	74.6
67.5°	0.0	0.0	1.2	2.4	3.7	6.1	9.8	15.9	26.9	45.3
70°	0.0	0.0	1.2	2.4	3.7	4.9	7.3	9.8	14.7	24.5
72.5°	0.0	0.0	1.2	1.2	2.4	6.1	6.1	7.3	9.8	13.5
75°	0.0	0.0	1.2	2.4	3.7	6.1	6.1	6.1	7.3	8.6
77.5°	0.0	0.0	1.2	2.4	3.7	6.1	4.9	6.1	6.1	6.1
80°	0.0	0.0	1.2	2.4	3.7	6.1	7.3	6.1	4.9	4.9
82.5°	0.0	0.0	1.2	3.7	3.7	8.6	8.6	8.6	3.7	3.7
85°	0.0	0.0	2.4	3.7	6.1	9.8	9.8	7.3	3.7	2.4
87.5°	0.0	0.0	1.2	2.4	2.4	4.9	7.3	6.1	2.4	1.2
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°
11377.9	0°	11377.9	11377.9	11377.9	11377.9	11377.9	11377.9	11377.9	11377.9	11377.9
11271.5	2.5°	11362.0	11331.4	11388.9	11396.3	11371.8	11341.2	11270.3	11264.2	11140.6
11022.0	5°	11146.7	11096.6	11133.3	11157.7	11149.2	11116.1	11086.8	11059.9	10948.6
10617.0	7.5°	10745.5	10727.1	10744.3	10762.6	10798.1	10762.6	10750.4	10722.2	10612.1
10218.2	10°	10300.2	10266.0	10330.8	10322.2	10312.4	10302.7	10251.3	10256.2	10126.5
9675.1	12.5°	9753.4	9695.9	9758.3	9765.6	9758.3	9724.0	9666.5	9691.0	9572.3
8941.1	15°	9018.2	9012.1	9057.3	9086.7	9107.5	9070.8	9051.2	9063.4	8992.5
7996.7	17.5°	8115.4	8194.9	8342.9	8393.1	8394.3	8432.2	8421.2	8406.5	8353.9
6950.8	20°	7053.6	7206.5	7434.0	7667.7	7734.9	7703.1	7688.5	7715.4	7637.1
5968.5	22.5°	6073.7	6204.6	6468.8	6810.1	7007.1	7026.6	7023.0	6999.7	6969.2
5181.9	25°	5241.8	5358.1	5611.3	5923.2	6301.2	6357.5	6359.9	6352.6	6325.7
4468.7	27.5°	4539.7	4680.4	4819.8	5098.7	5501.2	5733.6	5704.3	5695.7	5685.9
3866.9	30°	3903.6	4080.9	4211.8	4385.5	4746.4	5060.8	5091.4	5076.7	5053.5
3369.0	32.5°	3399.6	3504.8	3671.1	3788.6	4047.9	4403.9	4521.3	4510.3	4489.5
2920.0	35°	2961.6	3003.2	3134.1	3265.0	3437.5	3782.5	3956.2	3931.7	3928.0
2379.3	37.5°	2439.3	2578.7	2650.9	2783.0	2904.1	3172.0	3411.8	3400.8	3402.0
1913.2	40°	1969.5	2050.3	2193.4	2304.7	2416.0	2611.8	2878.4	2885.8	2883.3
1481.4	42.5°	1512.0	1590.3	1740.8	1861.9	1961.0	2082.1	2336.5	2345.1	2356.1
1153.6	45°	1180.5	1230.6	1340.7	1466.7	1571.9	1645.3	1838.6	1893.7	1894.9
894.2	47.5°	916.3	973.7	1052.0	1173.1	1275.9	1328.5	1469.2	1543.8	1540.1
686.3	50°	719.3	771.9	835.5	930.9	1042.3	1083.8	1187.8	1261.2	1257.6
517.5	52.5°	550.5	617.8	674.0	747.4	856.3	891.8	966.4	1050.8	1038.6
379.2	55°	417.1	485.7	538.3	599.4	698.5	743.8	795.1	862.4	864.9
293.6	57.5°	314.4	385.3	433.0	495.4	570.1	620.2	659.4	731.5	730.3
200.6	60°	225.1	286.3	343.7	408.6	466.1	523.6	550.5	619.0	621.4
141.9	62.5°	162.7	220.2	275.2	331.5	382.9	439.2	463.6	517.5	524.8
93.0	65°	113.8	154.1	217.7	260.6	318.1	359.7	391.5	437.9	446.5
55.0	67.5°	73.4	111.3	172.5	210.4	263.0	298.5	331.5	368.2	379.2
35.5	70°	44.0	84.4	128.4	168.8	216.5	248.3	280.1	311.9	318.1
17.1	72.5°	28.1	58.7	93.0	137.0	173.7	208.0	236.1	259.3	241.0
11.0	75°	15.9	40.4	73.4	107.7	140.7	173.7	197.0	209.2	167.6
7.3	77.5°	9.8	29.4	59.9	86.9	108.9	139.5	154.1	161.5	119.9
4.9	80°	6.1	22.0	50.2	71.0	71.0	102.8	119.9	126.0	86.9
3.7	82.5°	4.9	15.9	39.1	53.8	47.7	77.1	94.2	95.4	61.2
2.4	85°	3.7	12.2	24.5	35.5	33.0	53.8	55.0	61.2	40.4
2.4	87.5°	2.4	7.3	14.7	20.8	18.3	25.7	29.4	33.0	22.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11377.9
11044.0
10859.3
10588.9
10082.5
9538.1
8906.9
8275.6
7580.8
6910.4
6235.2
5628.4
5024.1
4434.5
3887.7
3362.9
2840.5
2319.4
1863.1
1526.7
1257.6
1039.8
864.9
727.9
615.3
522.4
444.1
378.0
313.2
223.9
159.0
112.5
80.7
56.3
36.7
19.6
0.0

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