

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: P638047

Luminaire Tested: **IFLD-S-SA3A-722-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638047
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-722-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7795.3 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

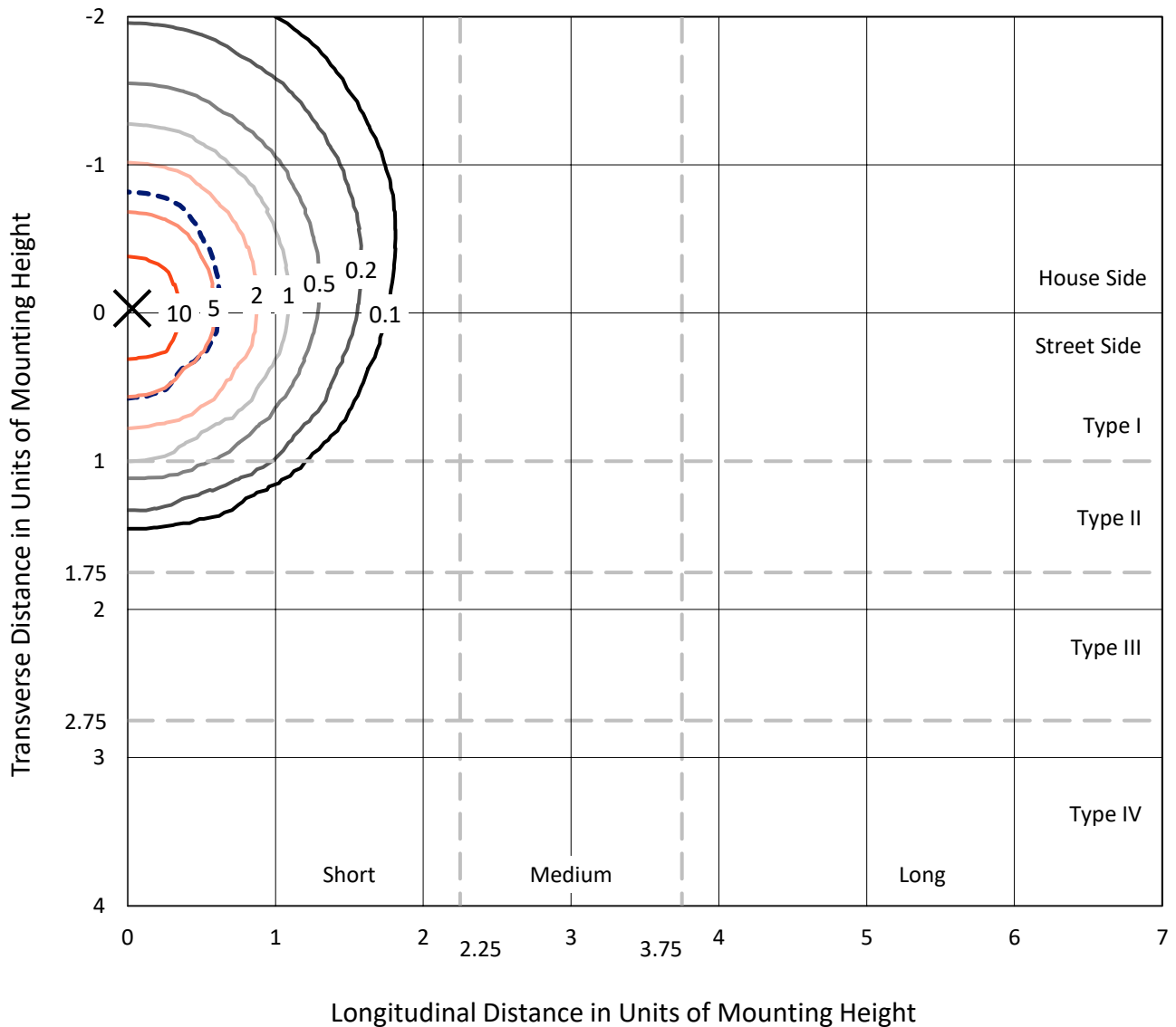
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638047
 CATALOG NUMBER: IFLD-S-SA3A-722-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

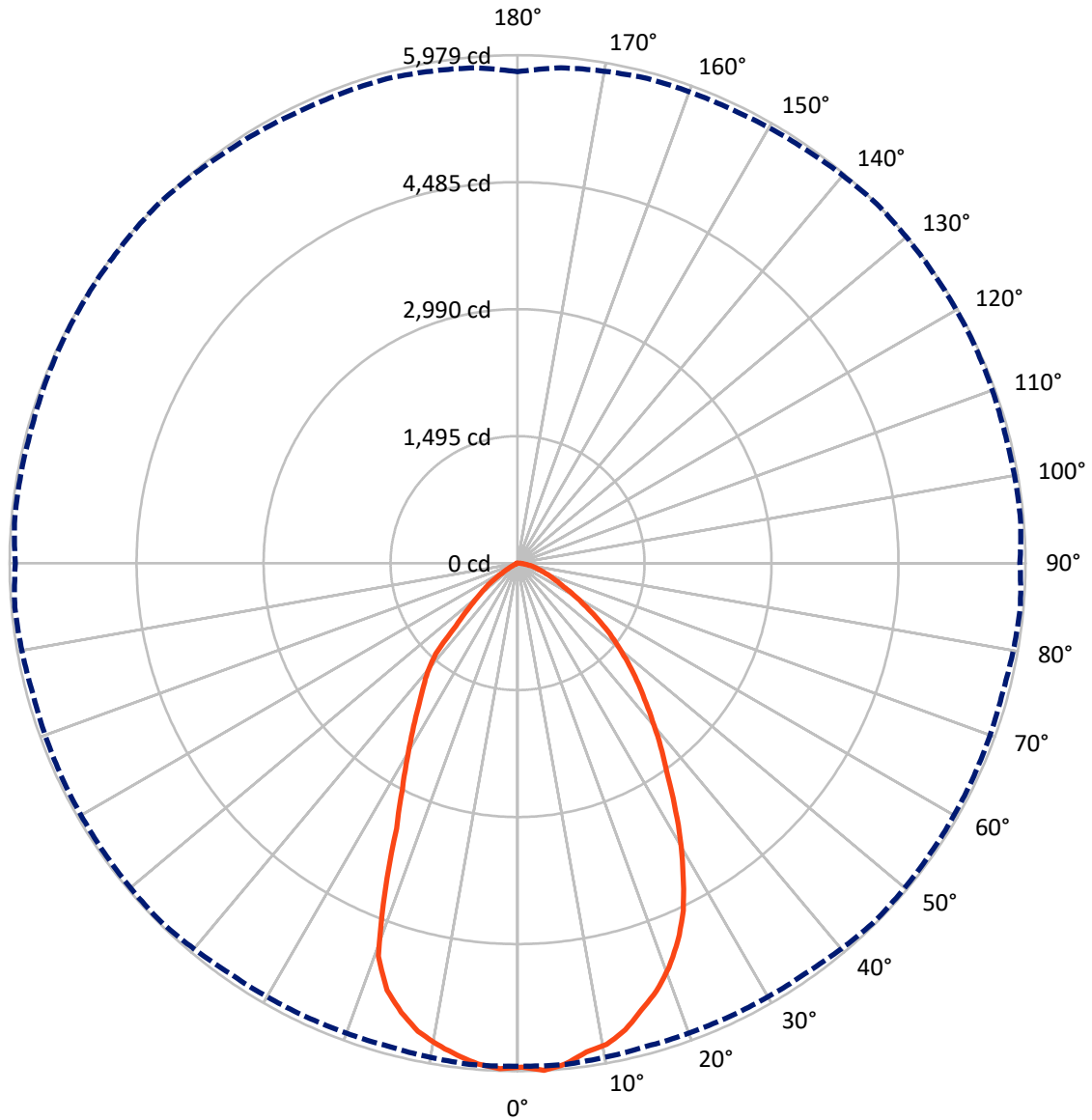
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.8 fc
 Type I - Short - N/A

REPORT NUMBER: P638047
CATALOG NUMBER: IFLD-S-SA3A-722-U-77-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P638047

CATALOG NUMBER: IFLD-S-SA3A-722-U-77-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4616.8	0.0	4616.8
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	3178.5	0.0	3178.5
	% Fixture	40.8	0.0	40.8
Total	Lumens	7795.3	0.0	7795.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.3	7.1
10°-20°	1491.9	19.1
20°-30°	1819.4	23.3
30°-40°	1661.1	21.3
40°-50°	1200.5	15.4
50°-60°	655.5	8.4
60°-70°	271.0	3.5
70°-80°	109.8	1.4
80°-90°	29.9	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°	7795.3	100.0
0°-180°	7795.3	100.0



REPORT NUMBER: P638047

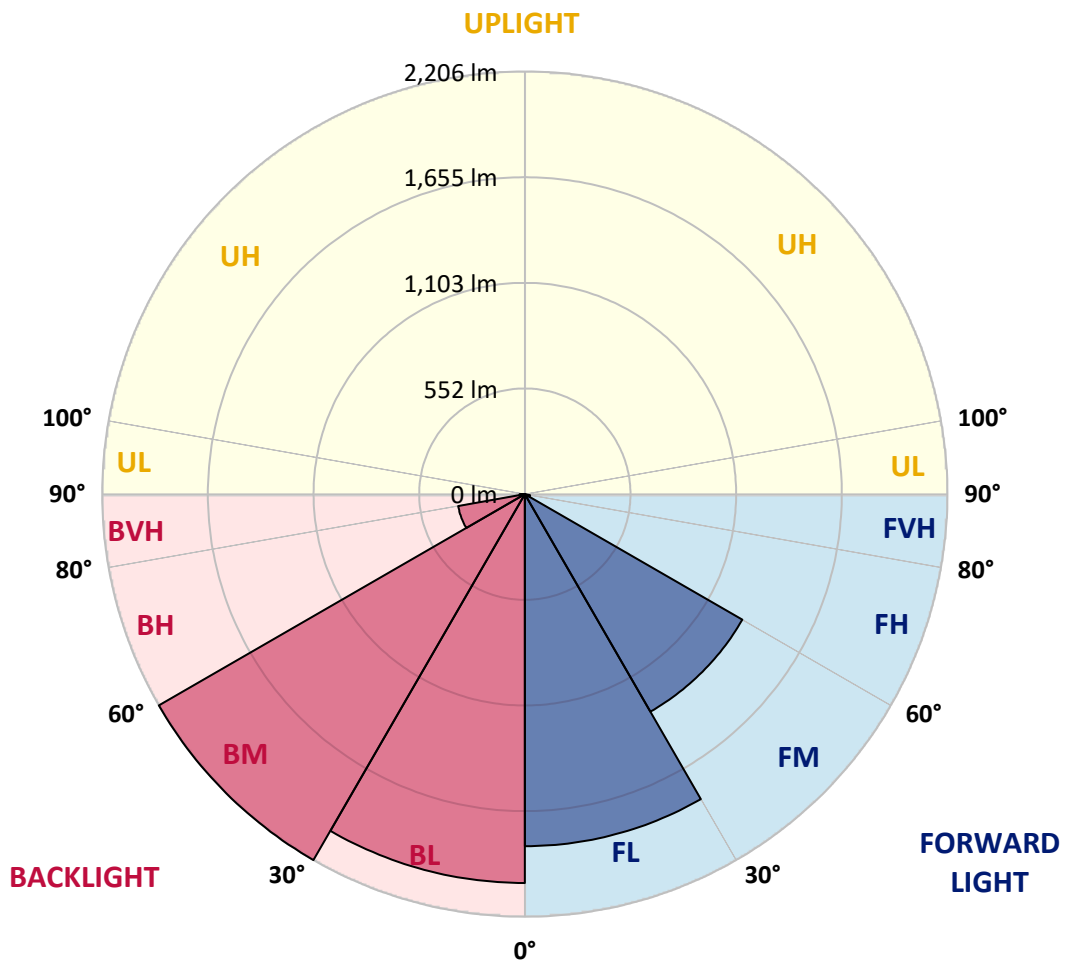
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1837.6	23.6			
FM (30°-60°)	1311.0	16.8			
FH (60°-80°)	27.5	0.4			G0/660
FVH (80°-90°)	2.4	0.0			G0/10
BL (0°-30°)	2030.0	26.0	B3/2500		
BM (30°-60°)	2206.0	28.3	B2/2500		
BH (60°-80°)	353.3	4.5	B1/500		G1/500
BVH (80°-90°)	27.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





REPORT NUMBER: P638047
 CATALOG NUMBER: IFLD-S-SA3A-722-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5932.2	5932.2	5932.2	5932.2	5932.2	5932.2	5932.2	5932.2	5932.2	5932.2
2.5°	5921.2	5928.9	5887.2	5891.6	5899.3	5955.3	5941.0	5927.8	5909.2	5941.0
5°	5913.6	5917.9	5874.0	5858.7	5865.3	5915.7	5869.6	5869.6	5865.3	5859.8
7.5°	5854.3	5856.5	5822.4	5795.0	5812.6	5835.6	5801.6	5818.0	5793.9	5812.6
10°	5765.4	5751.1	5710.5	5702.8	5722.5	5744.5	5721.4	5736.8	5714.9	5729.1
12.5°	5634.7	5612.8	5579.8	5570.0	5604.0	5633.6	5615.0	5606.2	5577.6	5612.8
15°	5130.9	5114.4	5189.0	5319.7	5437.1	5462.4	5442.6	5451.4	5392.1	5402.0
17.5°	4223.0	4192.3	4272.4	4582.0	5023.3	5256.0	5238.4	5181.4	5093.5	5113.3
20°	3837.7	3828.9	3820.2	3893.7	4202.2	4908.0	4932.2	4787.3	4662.1	4634.7
22.5°	3620.4	3617.1	3608.3	3624.8	3706.0	4159.4	4436.0	4302.1	4218.6	4211.0
25°	3421.7	3416.2	3389.8	3410.7	3410.7	3437.0	3791.6	3872.8	3799.3	3790.5
27.5°	3219.7	3209.8	3205.4	3215.3	3164.8	2987.0	3077.0	3473.3	3434.8	3437.0
30°	3001.2	2997.9	2985.9	3006.7	2850.8	2630.2	2573.1	3111.0	3118.7	3116.5
32.5°	2676.3	2690.6	2745.5	2768.5	2511.6	2329.4	2233.9	2691.7	2848.6	2845.4
35°	1944.1	1944.1	2123.0	2455.7	2201.0	2063.8	2012.2	2282.2	2581.9	2592.9
37.5°	1598.3	1603.8	1638.9	1790.4	1899.1	1850.8	1835.4	1921.1	2239.4	2257.0
40°	1438.0	1438.0	1438.0	1375.5	1372.2	1667.5	1658.7	1631.2	1934.2	1972.6
42.5°	1292.0	1295.3	1297.5	1139.5	1051.6	1441.3	1421.6	1379.9	1660.9	1705.9
45°	1141.7	1147.1	1153.7	952.8	914.4	1037.4	1203.1	1157.0	1390.8	1449.0
47.5°	697.1	705.9	855.1	807.9	812.3	800.3	981.4	973.7	1140.6	1222.9
50°	470.9	474.2	488.5	512.6	697.1	629.0	694.9	805.7	866.1	991.3
52.5°	395.2	400.7	365.5	332.6	457.8	491.8	485.2	598.3	622.4	777.2
55°	277.7	295.3	278.8	275.5	260.2	382.0	367.7	460.0	475.3	590.6
57.5°	28.5	32.9	57.1	205.3	170.2	216.3	262.4	337.0	352.4	435.8
60°	2.2	2.2	5.5	28.5	124.0	129.5	181.1	207.5	237.1	304.1
62.5°	0.0	1.1	2.2	4.4	19.8	69.2	91.1	108.7	142.7	196.5
65°	0.0	0.0	1.1	3.3	4.4	26.3	35.1	57.1	77.9	121.8
67.5°	0.0	0.0	1.1	2.2	3.3	6.6	12.1	20.9	41.7	69.2
70°	0.0	0.0	1.1	2.2	3.3	5.5	8.8	13.2	18.7	37.3
72.5°	0.0	0.0	1.1	1.1	2.2	5.5	6.6	8.8	13.2	18.7
75°	0.0	0.0	1.1	1.1	3.3	6.6	5.5	6.6	8.8	12.1
77.5°	0.0	0.0	1.1	2.2	3.3	6.6	5.5	6.6	6.6	7.7
80°	0.0	0.0	1.1	2.2	4.4	7.7	6.6	6.6	5.5	5.5
82.5°	0.0	0.0	1.1	3.3	4.4	9.9	9.9	8.8	4.4	3.3
85°	0.0	0.0	2.2	4.4	6.6	11.0	11.0	8.8	3.3	2.2
87.5°	0.0	0.0	2.2	3.3	5.5	7.7	11.0	8.8	3.3	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638047
 CATALOG NUMBER: IFLD-S-SA3A-722-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
5932.2	0°	5932.2	5932.2	5932.2	5932.2	5932.2	5932.2	5932.2	5932.2	5932.2
5913.6	2.5°	5943.2	5936.6	5958.6	5967.3	5979.4	5933.3	5904.8	5905.9	5853.2
5846.6	5°	5881.7	5882.8	5911.4	5909.2	5921.2	5896.0	5885.0	5866.4	5820.2
5762.1	7.5°	5803.8	5793.9	5821.3	5842.2	5811.5	5829.0	5803.8	5812.6	5785.1
5687.4	10°	5743.4	5720.4	5745.6	5759.9	5761.0	5743.4	5719.3	5696.2	5686.3
5571.1	12.5°	5609.5	5579.8	5622.7	5642.4	5639.1	5605.1	5577.6	5583.1	5551.3
5366.9	15°	5425.1	5426.2	5456.9	5475.6	5458.0	5450.3	5452.5	5439.3	5411.9
5084.8	17.5°	5142.9	5159.4	5240.6	5285.6	5295.5	5280.2	5272.5	5257.1	5229.7
4634.7	20°	4673.1	4771.9	4916.8	5056.2	5083.7	5079.3	5051.8	5045.2	5029.9
4189.0	22.5°	4260.3	4333.9	4501.9	4719.2	4831.2	4842.2	4809.2	4799.3	4782.9
3790.5	25°	3833.3	3912.4	4063.9	4299.9	4531.5	4578.7	4573.2	4543.6	4526.0
3437.0	27.5°	3473.3	3552.3	3689.5	3902.5	4150.6	4302.1	4316.3	4269.1	4268.0
3122.0	30°	3148.3	3257.0	3361.3	3534.7	3775.1	4002.4	4026.5	3993.6	3996.9
2833.3	32.5°	2893.7	2983.7	3072.6	3188.9	3388.7	3653.3	3747.7	3717.0	3704.9
2592.9	35°	2633.5	2695.0	2786.1	2892.6	3028.7	3291.0	3454.6	3431.6	3419.5
2267.9	37.5°	2337.1	2442.5	2508.3	2628.0	2734.5	2943.1	3173.6	3170.3	3145.0
1991.3	40°	2033.0	2143.9	2243.8	2364.5	2446.9	2612.6	2868.4	2867.3	2870.6
1704.8	42.5°	1757.5	1859.6	1980.3	2112.1	2191.1	2311.9	2586.3	2601.7	2620.3
1468.8	45°	1508.3	1600.5	1712.5	1872.8	1968.3	2037.4	2281.1	2351.4	2350.3
1258.0	47.5°	1284.4	1371.1	1465.5	1621.4	1743.2	1805.8	2007.8	2107.7	2101.1
1031.9	50°	1078.0	1154.8	1253.6	1366.7	1530.3	1585.1	1735.5	1867.3	1857.4
822.2	52.5°	867.2	973.7	1057.1	1160.3	1332.7	1386.5	1502.8	1631.2	1623.6
616.9	55°	676.2	779.4	880.4	969.3	1114.2	1194.3	1277.8	1409.5	1407.3
483.0	57.5°	511.5	624.6	720.1	804.6	919.9	1018.7	1085.7	1205.3	1220.7
330.4	60°	378.7	465.4	568.6	663.0	754.2	856.2	901.2	1018.7	1025.3
226.1	62.5°	258.0	353.5	454.5	540.1	608.2	713.5	754.2	850.8	862.8
144.9	65°	178.9	240.4	355.7	417.1	500.6	590.6	631.2	708.0	732.2
83.4	67.5°	118.6	171.2	277.7	333.7	416.0	477.5	529.1	591.7	618.0
52.7	70°	64.8	126.2	198.7	263.5	334.8	394.1	444.6	495.1	518.1
24.2	72.5°	43.9	84.5	138.3	208.6	270.0	328.2	373.2	410.6	411.7
14.3	75°	22.0	57.1	105.4	161.4	210.8	267.8	308.5	330.4	304.1
8.8	77.5°	13.2	41.7	85.6	129.5	171.2	216.3	239.3	251.4	208.6
6.6	80°	7.7	29.6	67.0	103.2	118.6	159.2	181.1	184.4	139.4
4.4	82.5°	5.5	22.0	52.7	75.7	72.5	112.0	136.1	131.7	88.9
3.3	85°	3.3	15.4	32.9	47.2	43.9	73.5	79.0	81.2	51.6
2.2	87.5°	2.2	8.8	17.6	25.2	20.9	31.8	31.8	38.4	25.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
5932.2
5785.1
5809.3
5739.0
5642.4
5523.9
5384.4
5217.6
4994.7
4778.5
4507.3
4265.8
3980.4
3706.0
3403.0
3165.9
2870.6
2610.4
2352.5
2103.3
1866.2
1640.0
1412.8
1214.1
1035.2
865.0
726.7
614.7
509.4
401.8
284.3
200.9
130.6
82.3
47.2
22.0
0.0

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