

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: P638158

Luminaire Tested: **IFLD-S-SA2A-740-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638158
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-740-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7101.2 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

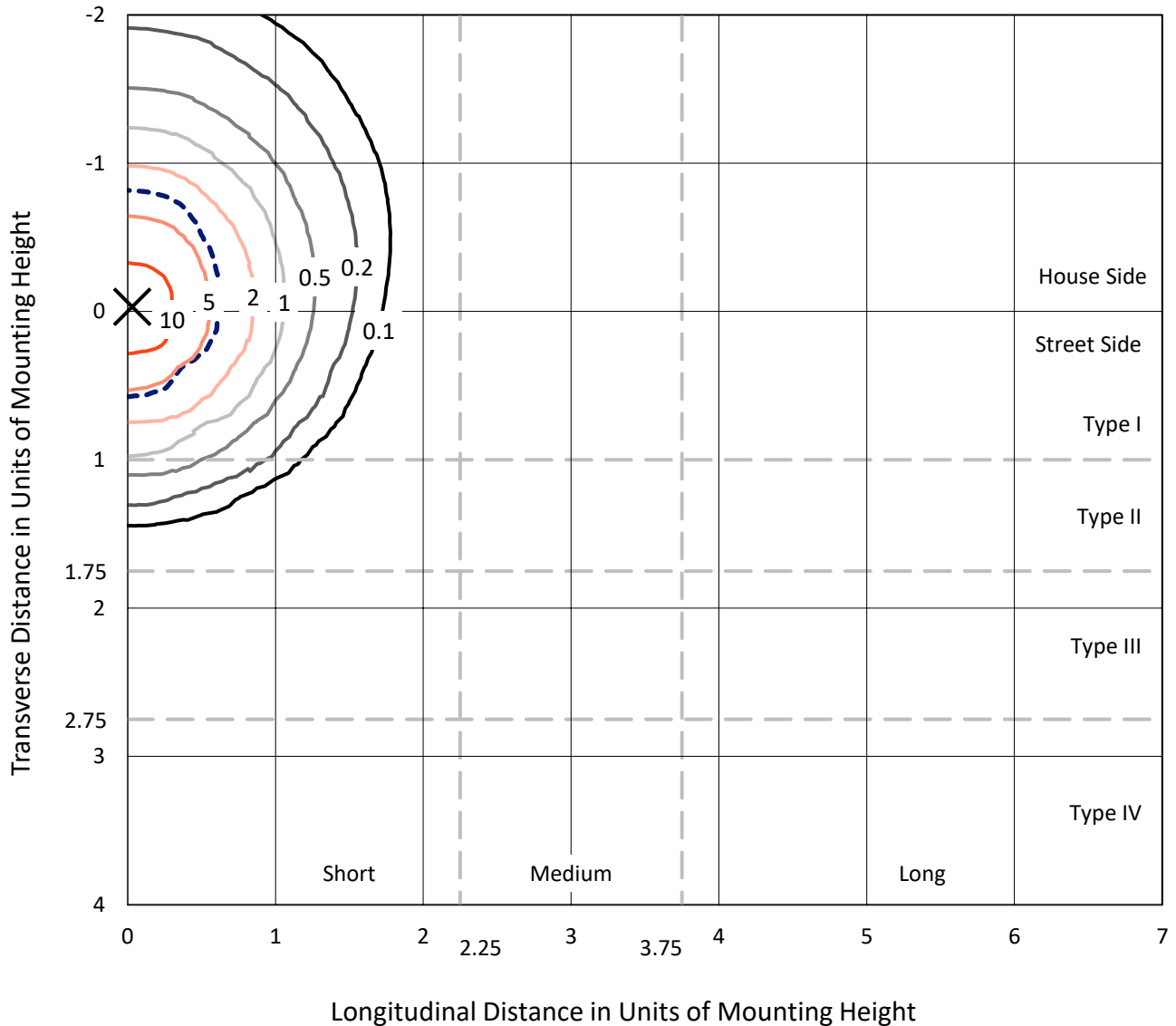
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

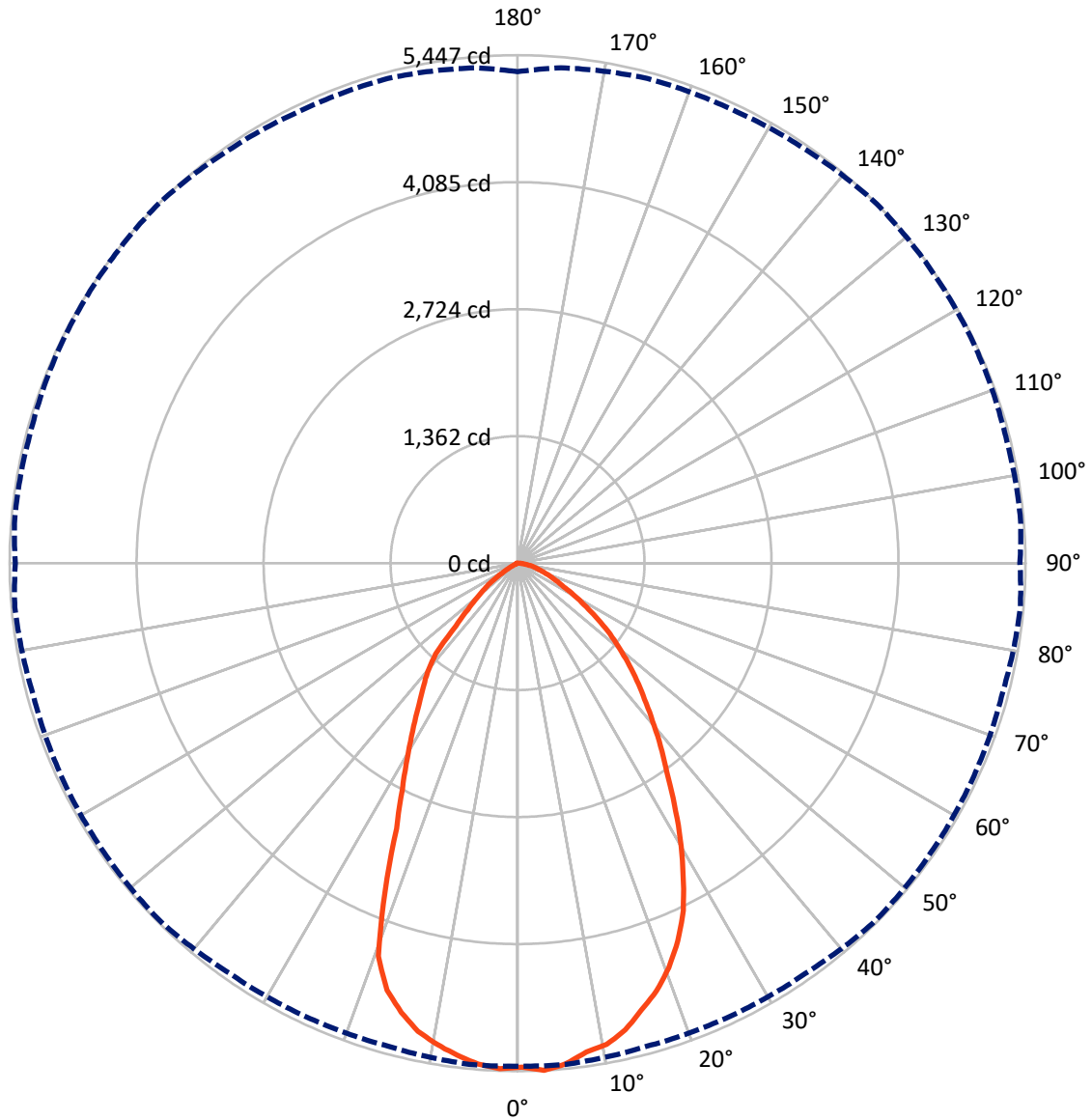
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4205.7	0.0	4205.7
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	2895.5	0.0	2895.5
	% Fixture	40.8	0.0	40.8
Total	Lumens	7101.2	0.0	7101.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.8	7.1
10°-20°	1359.0	19.1
20°-30°	1657.4	23.3
30°-40°	1513.2	21.3
40°-50°	1093.6	15.4
50°-60°	597.1	8.4
60°-70°	246.9	3.5
70°-80°	100.0	1.4
80°-90°	27.2	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°	7101.2	100.0
0°-180°	7101.2	100.0



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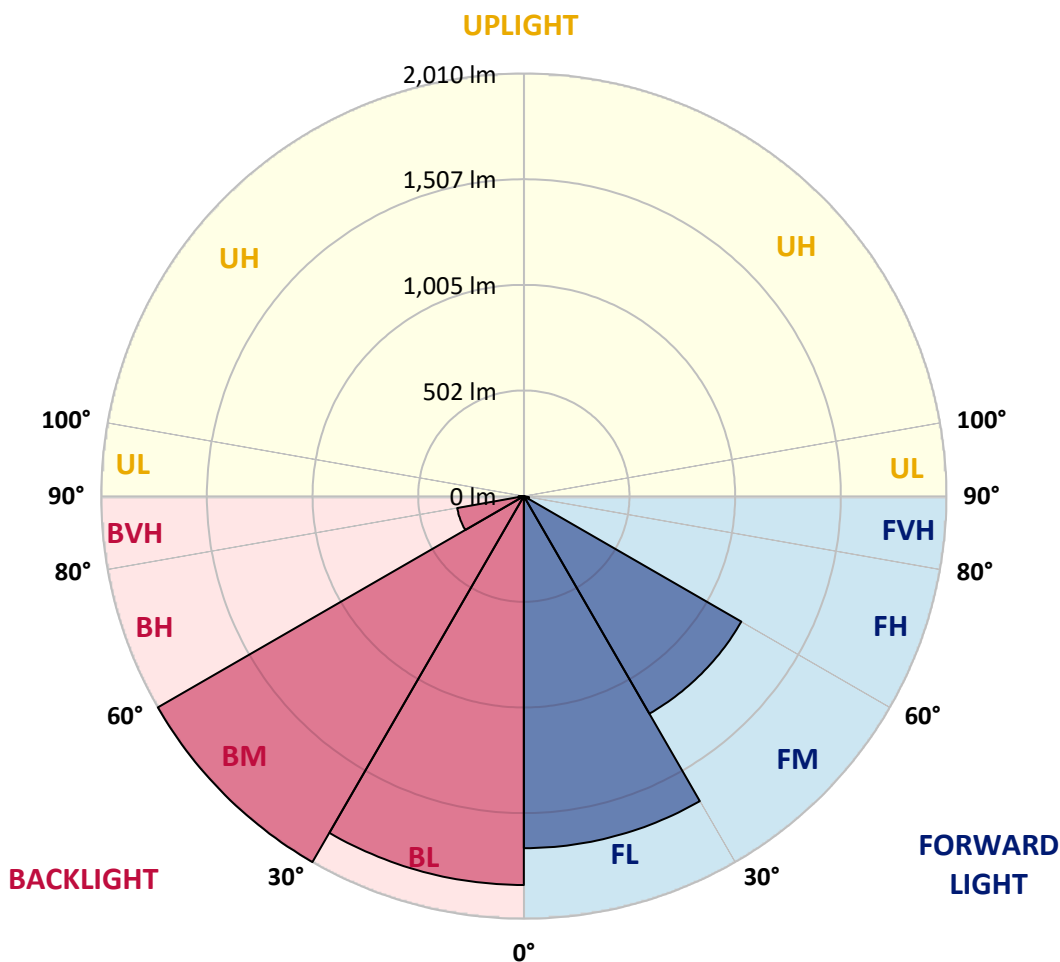
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1674.0	23.6			
FM (30°-60°)	1194.3	16.8			
FH (60°-80°)	25.0	0.4			G0/660
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	1849.3	26.0	B3/2500		
BM (30°-60°)	2009.6	28.3	B2/2500		
BH (60°-80°)	321.8	4.5	B1/500		G1/500
BVH (80°-90°)	25.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5404.1	5404.1	5404.1	5404.1	5404.1	5404.1	5404.1	5404.1	5404.1	5404.1
2.5°	5394.1	5401.1	5363.1	5367.1	5374.1	5425.1	5412.1	5400.1	5383.1	5412.1
5°	5387.1	5391.1	5351.1	5337.0	5343.0	5389.1	5347.0	5347.0	5343.0	5338.0
7.5°	5333.0	5335.0	5304.0	5279.0	5295.0	5316.0	5285.0	5300.0	5278.0	5295.0
10°	5252.0	5239.0	5202.0	5195.0	5213.0	5233.0	5212.0	5226.0	5206.0	5219.0
12.5°	5133.0	5113.0	5083.0	5074.0	5105.0	5132.0	5115.0	5107.0	5081.0	5113.0
15°	4674.0	4659.0	4727.0	4846.0	4953.0	4976.0	4958.0	4966.0	4912.0	4921.0
17.5°	3847.0	3819.0	3892.0	4174.0	4576.0	4788.0	4772.0	4720.0	4640.0	4658.0
20°	3496.0	3488.0	3480.0	3547.0	3828.0	4471.0	4493.0	4361.0	4247.0	4222.0
22.5°	3298.0	3295.0	3287.0	3302.0	3376.0	3789.0	4041.0	3919.0	3843.0	3836.0
25°	3117.0	3112.0	3088.0	3107.0	3107.0	3131.0	3454.0	3528.0	3461.0	3453.0
27.5°	2933.0	2924.0	2920.0	2929.0	2883.0	2721.0	2803.0	3164.0	3129.0	3131.0
30°	2734.0	2731.0	2720.0	2739.0	2597.0	2396.0	2344.0	2834.0	2841.0	2839.0
32.5°	2438.0	2451.0	2501.0	2522.0	2288.0	2122.0	2035.0	2452.0	2595.0	2592.0
35°	1771.0	1771.0	1934.0	2237.0	2005.0	1880.0	1833.0	2079.0	2352.0	2362.0
37.5°	1456.0	1461.0	1493.0	1631.0	1730.0	1686.0	1672.0	1750.0	2040.0	2056.0
40°	1310.0	1310.0	1310.0	1253.0	1250.0	1519.0	1511.0	1486.0	1762.0	1797.0
42.5°	1177.0	1180.0	1182.0	1038.0	958.0	1313.0	1295.0	1257.0	1513.0	1554.0
45°	1040.0	1045.0	1051.0	868.0	833.0	945.0	1096.0	1054.0	1267.0	1320.0
47.5°	635.0	643.0	779.0	736.0	740.0	729.0	894.0	887.0	1039.0	1114.0
50°	429.0	432.0	445.0	467.0	635.0	573.0	633.0	734.0	789.0	903.0
52.5°	360.0	365.0	333.0	303.0	417.0	448.0	442.0	545.0	567.0	708.0
55°	253.0	269.0	254.0	251.0	237.0	348.0	335.0	419.0	433.0	538.0
57.5°	26.0	30.0	52.0	187.0	155.0	197.0	239.0	307.0	321.0	397.0
60°	2.0	2.0	5.0	26.0	113.0	118.0	165.0	189.0	216.0	277.0
62.5°	0.0	1.0	2.0	4.0	18.0	63.0	83.0	99.0	130.0	179.0
65°	0.0	0.0	1.0	3.0	4.0	24.0	32.0	52.0	71.0	111.0
67.5°	0.0	0.0	1.0	2.0	3.0	6.0	11.0	19.0	38.0	63.0
70°	0.0	0.0	1.0	2.0	3.0	5.0	8.0	12.0	17.0	34.0
72.5°	0.0	0.0	1.0	1.0	2.0	5.0	6.0	8.0	12.0	17.0
75°	0.0	0.0	1.0	1.0	3.0	6.0	5.0	6.0	8.0	11.0
77.5°	0.0	0.0	1.0	2.0	3.0	6.0	5.0	6.0	6.0	7.0
80°	0.0	0.0	1.0	2.0	4.0	7.0	6.0	6.0	5.0	5.0
82.5°	0.0	0.0	1.0	3.0	4.0	9.0	9.0	8.0	4.0	3.0
85°	0.0	0.0	2.0	4.0	6.0	10.0	10.0	8.0	3.0	2.0
87.5°	0.0	0.0	2.0	3.0	5.0	7.0	10.0	8.0	3.0	1.0
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°
5404.1	0°	5404.1	5404.1	5404.1	5404.1	5404.1	5404.1	5404.1	5404.1	5404.1
5387.1	2.5°	5414.1	5408.1	5428.1	5436.1	5447.1	5405.1	5379.1	5380.1	5332.0
5326.0	5°	5358.1	5359.1	5385.1	5383.1	5394.1	5371.1	5361.1	5344.0	5302.0
5249.0	7.5°	5287.0	5278.0	5303.0	5322.0	5294.0	5310.0	5287.0	5295.0	5270.0
5181.0	10°	5232.0	5211.0	5234.0	5247.0	5248.0	5232.0	5210.0	5189.0	5180.0
5075.0	12.5°	5110.0	5083.0	5122.0	5140.0	5137.0	5106.0	5081.0	5086.0	5057.0
4889.0	15°	4942.0	4943.0	4971.0	4988.0	4972.0	4965.0	4967.0	4955.0	4930.0
4632.0	17.5°	4685.0	4700.0	4774.0	4815.0	4824.0	4810.0	4803.0	4789.0	4764.0
4222.0	20°	4257.0	4347.0	4479.0	4606.0	4631.0	4627.0	4602.0	4596.0	4582.0
3816.0	22.5°	3881.0	3948.0	4101.0	4299.0	4401.0	4411.0	4381.0	4372.0	4357.0
3453.0	25°	3492.0	3564.0	3702.0	3917.0	4128.0	4171.0	4166.0	4139.0	4123.0
3131.0	27.5°	3164.0	3236.0	3361.0	3555.0	3781.0	3919.0	3932.0	3889.0	3888.0
2844.0	30°	2868.0	2967.0	3062.0	3220.0	3439.0	3646.0	3668.0	3638.0	3641.0
2581.0	32.5°	2636.0	2718.0	2799.0	2905.0	3087.0	3328.0	3414.0	3386.0	3375.0
2362.0	35°	2399.0	2455.0	2538.0	2635.0	2759.0	2998.0	3147.0	3126.0	3115.0
2066.0	37.5°	2129.0	2225.0	2285.0	2394.0	2491.0	2681.0	2891.0	2888.0	2865.0
1814.0	40°	1852.0	1953.0	2044.0	2154.0	2229.0	2380.0	2613.0	2612.0	2615.0
1553.0	42.5°	1601.0	1694.0	1804.0	1924.0	1996.0	2106.0	2356.0	2370.0	2387.0
1338.0	45°	1374.0	1458.0	1560.0	1706.0	1793.0	1856.0	2078.0	2142.0	2141.0
1146.0	47.5°	1170.0	1249.0	1335.0	1477.0	1588.0	1645.0	1829.0	1920.0	1914.0
940.0	50°	982.0	1052.0	1142.0	1245.0	1394.0	1444.0	1581.0	1701.0	1692.0
749.0	52.5°	790.0	887.0	963.0	1057.0	1214.0	1263.0	1369.0	1486.0	1479.0
562.0	55°	616.0	710.0	802.0	883.0	1015.0	1088.0	1164.0	1284.0	1282.0
440.0	57.5°	466.0	569.0	656.0	733.0	838.0	928.0	989.0	1098.0	1112.0
301.0	60°	345.0	424.0	518.0	604.0	687.0	780.0	821.0	928.0	934.0
206.0	62.5°	235.0	322.0	414.0	492.0	554.0	650.0	687.0	775.0	786.0
132.0	65°	163.0	219.0	324.0	380.0	456.0	538.0	575.0	645.0	667.0
76.0	67.5°	108.0	156.0	253.0	304.0	379.0	435.0	482.0	539.0	563.0
48.0	70°	59.0	115.0	181.0	240.0	305.0	359.0	405.0	451.0	472.0
22.0	72.5°	40.0	77.0	126.0	190.0	246.0	299.0	340.0	374.0	375.0
13.0	75°	20.0	52.0	96.0	147.0	192.0	244.0	281.0	301.0	277.0
8.0	77.5°	12.0	38.0	78.0	118.0	156.0	197.0	218.0	229.0	190.0
6.0	80°	7.0	27.0	61.0	94.0	108.0	145.0	165.0	168.0	127.0
4.0	82.5°	5.0	20.0	48.0	69.0	66.0	102.0	124.0	120.0	81.0
3.0	85°	3.0	14.0	30.0	43.0	40.0	67.0	72.0	74.0	47.0
2.0	87.5°	2.0	8.0	16.0	23.0	19.0	29.0	29.0	35.0	23.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
5404.1
5270.0
5292.0
5228.0
5140.0
5032.0
4905.0
4753.0
4550.0
4353.0
4106.0
3886.0
3626.0
3376.0
3100.0
2884.0
2615.0
2378.0
2143.0
1916.0
1700.0
1494.0
1287.0
1106.0
943.0
788.0
662.0
560.0
464.0
366.0
259.0
183.0
119.0
75.0
43.0
20.0
0.0

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