

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: P637897

Luminaire Tested: **IFLD-S-SA2A-740-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637897
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-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7784.8 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

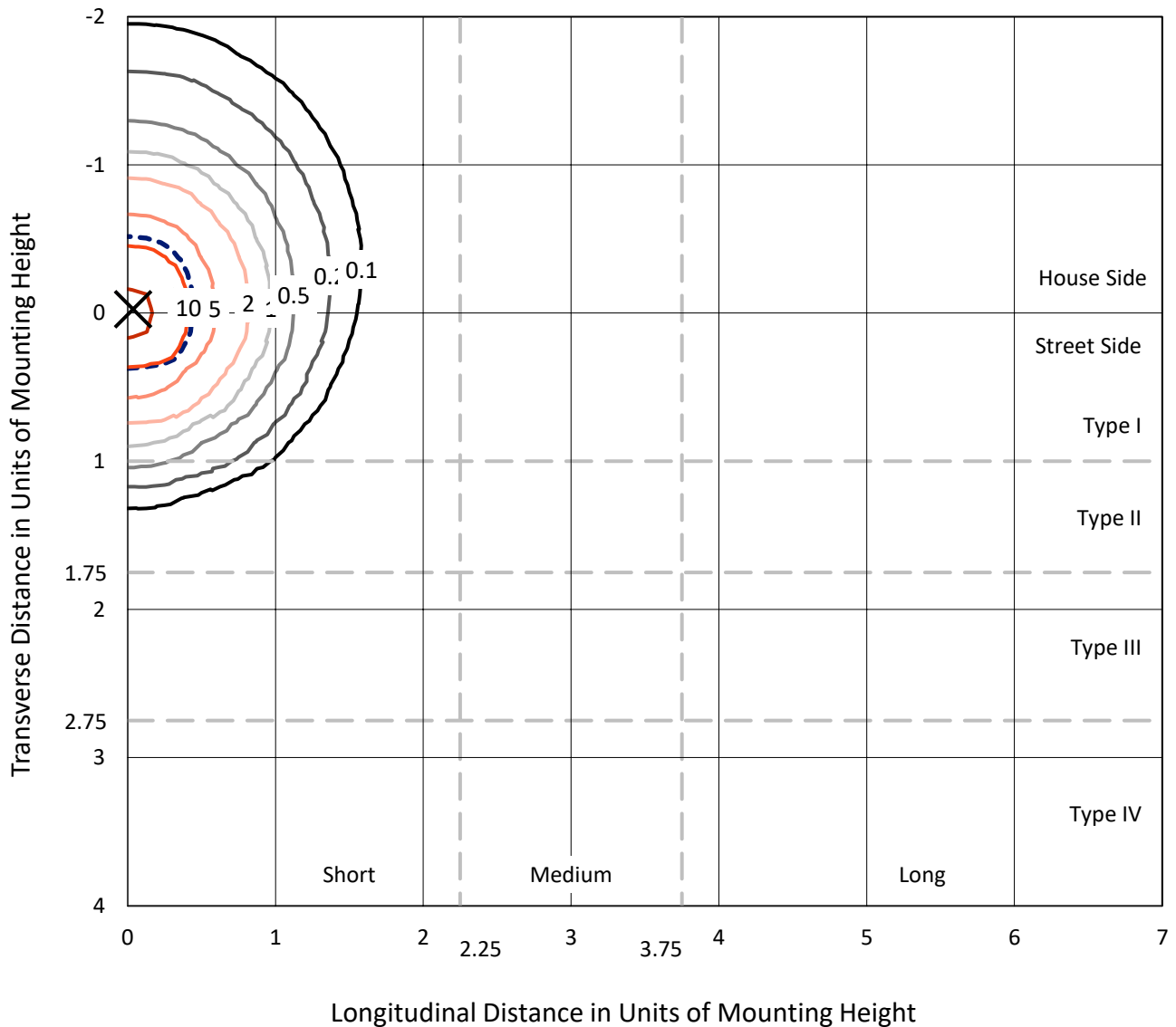
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637897
 CATALOG NUMBER: IFLD-S-SA2A-740-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

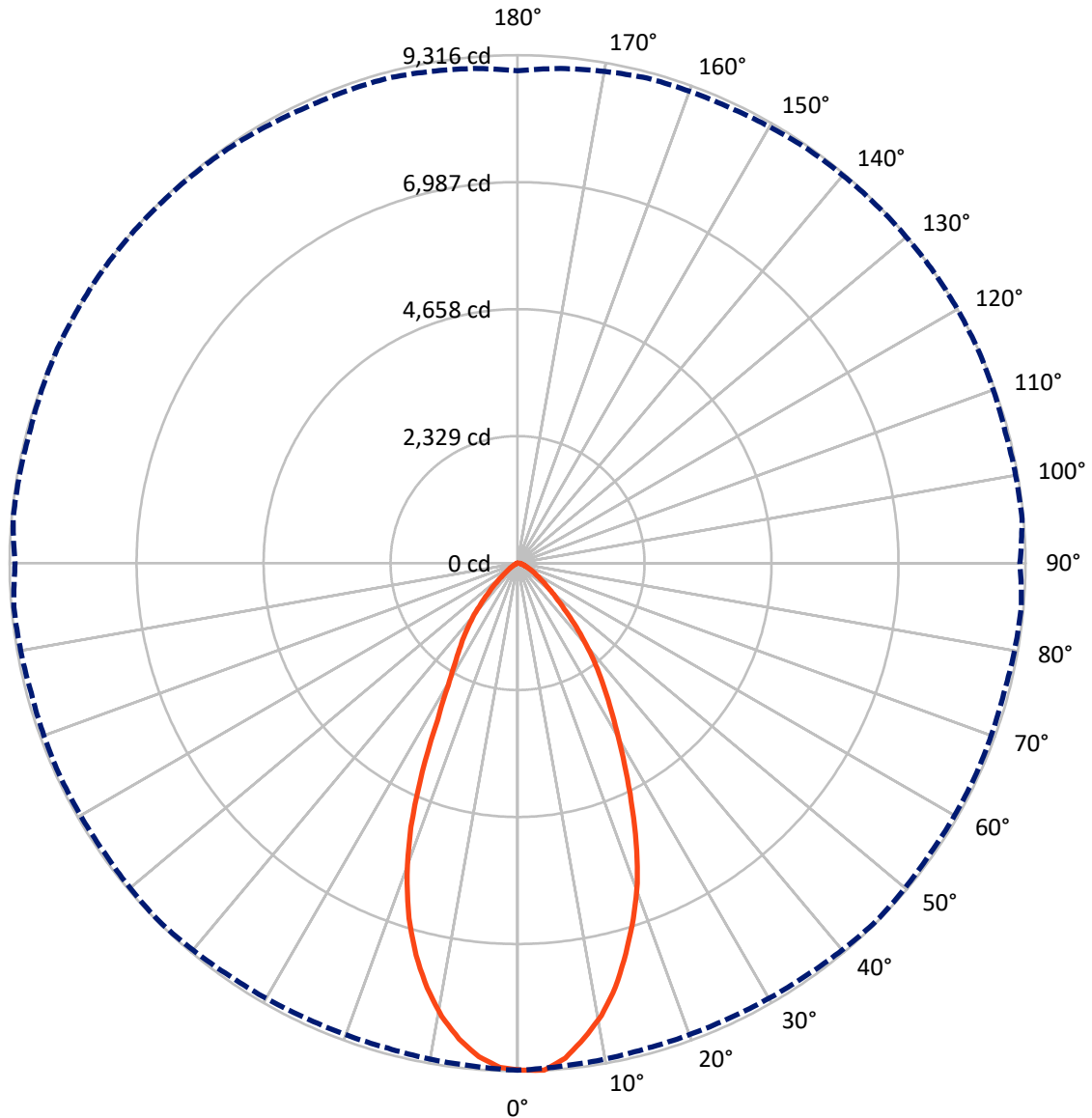
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 23.3 fc
 Type I - Short - N/A

REPORT NUMBER: P637897
CATALOG NUMBER: IFLD-S-SA2A-740-U-66-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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 CATALOG NUMBER: IFLD-S-SA2A-740-U-66-VI

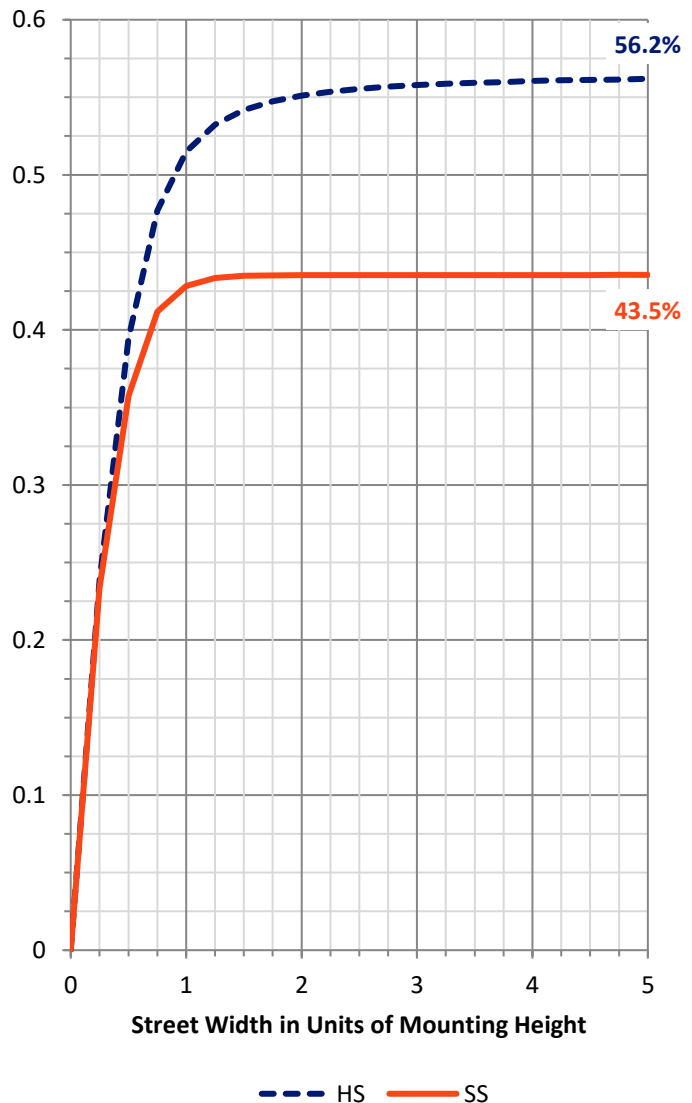
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4417.4	0.0	4417.4
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	3367.4	0.0	3367.4
	% Fixture	43.3	0.0	43.3
Total	Lumens	7784.8	0.0	7784.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	844.6	10.8
10°-20°	2013.2	25.9
20°-30°	2050.4	26.3
30°-40°	1529.0	19.6
40°-50°	798.8	10.3
50°-60°	336.0	4.3
60°-70°	137.2	1.8
70°-80°	57.7	0.7
80°-90°	17.8	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°	7784.8	100.0
0°-180°	7784.8	100.0



REPORT NUMBER: P637897

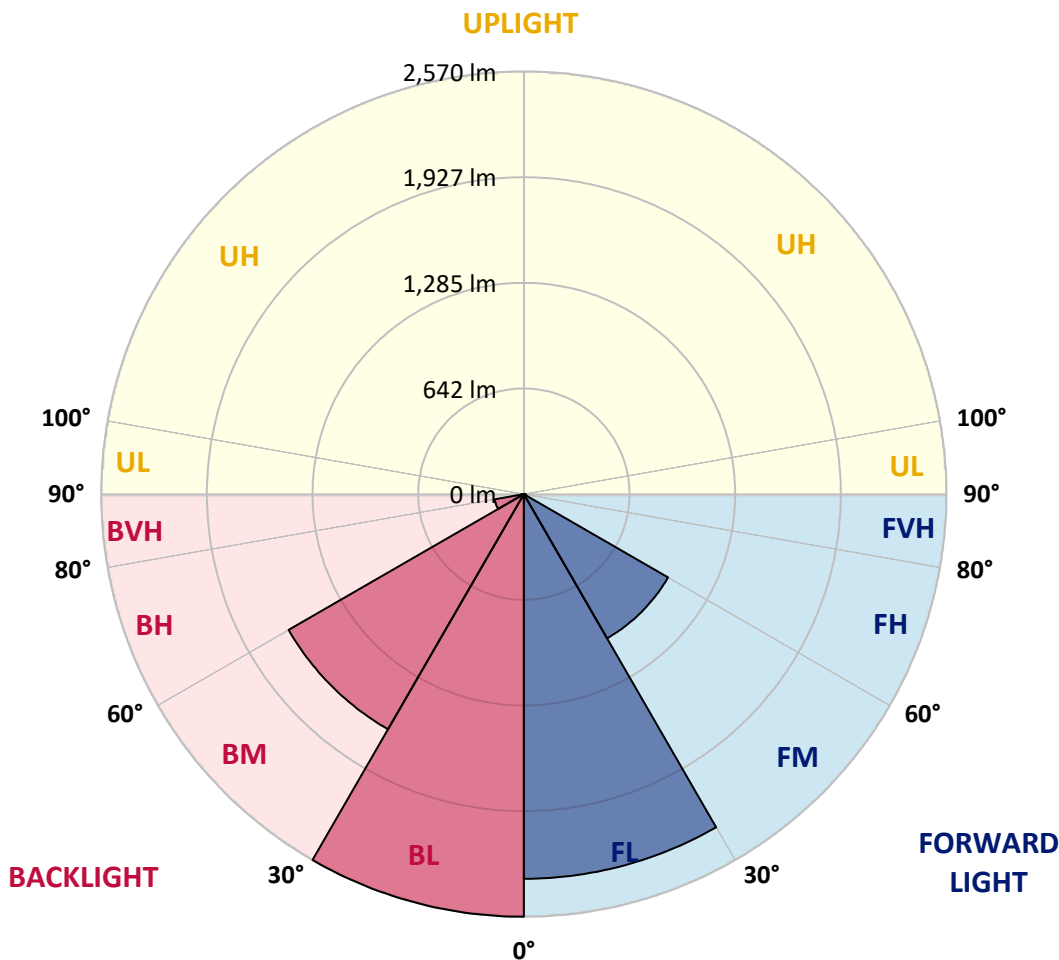
CATALOG NUMBER: IFLD-S-SA2A-740-U-66-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2338.6	30.0			
FM (30°-60°)	1012.4	13.0			
FH (60°-80°)	14.6	0.2			G0/660
FVH (80°-90°)	1.7	0.0			G0/10
BL (0°-30°)	2569.6	33.0	B4/5000		
BM (30°-60°)	1651.3	21.2	B2/2500		
BH (60°-80°)	180.3	2.3	B1/500		G1/500
BVH (80°-90°)	16.1	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





REPORT NUMBER: P637897
 CATALOG NUMBER: IFLD-S-SA2A-740-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9300.9	9300.9	9300.9	9300.9	9300.9	9300.9	9300.9	9300.9	9300.9	9300.9
2.5°	9301.9	9263.9	9209.9	9204.9	9232.9	9293.9	9254.9	9256.9	9232.9	9273.9
5°	9155.9	9119.9	9082.9	9033.9	9074.9	9100.9	9080.9	9058.9	9027.9	9067.9
7.5°	8879.9	8859.9	8804.9	8782.9	8807.9	8836.9	8793.9	8787.9	8744.9	8796.9
10°	8457.9	8449.9	8395.9	8382.9	8404.9	8448.9	8429.9	8425.9	8398.9	8393.9
12.5°	8019.9	7988.9	7921.9	7917.9	7950.9	8016.9	7965.9	7916.9	7931.9	7944.9
15°	6891.9	6858.9	7024.9	7285.9	7422.9	7417.9	7432.9	7373.9	7355.9	7361.9
17.5°	5478.9	5422.9	5482.9	5886.9	6537.9	6915.9	6811.9	6684.9	6616.9	6571.9
20°	4728.9	4731.9	4720.9	4824.9	5230.9	6092.9	6067.9	5822.9	5733.9	5696.9
22.5°	4272.9	4255.9	4231.9	4264.9	4373.9	4879.9	5218.9	4993.9	4962.9	4921.9
25°	3825.9	3825.9	3796.9	3829.9	3860.9	3867.9	4207.9	4299.9	4239.9	4239.9
27.5°	3438.9	3418.9	3405.9	3420.9	3379.9	3183.0	3226.0	3696.9	3655.9	3630.9
30°	3055.0	3049.0	3027.0	3047.0	2895.0	2673.0	2583.0	3120.0	3163.0	3154.0
32.5°	2522.0	2546.0	2644.0	2675.0	2415.0	2236.0	2150.0	2590.0	2762.0	2755.0
35°	1714.0	1734.0	1846.0	2216.0	2002.0	1874.0	1849.0	2060.0	2343.0	2370.0
37.5°	1365.0	1362.0	1394.0	1460.0	1609.0	1578.0	1571.0	1626.0	1911.0	1923.0
40°	1125.0	1121.0	1120.0	1066.0	1029.0	1312.0	1293.0	1260.0	1507.0	1531.0
42.5°	907.0	911.0	914.0	796.0	742.0	1012.0	1001.0	967.0	1182.0	1210.0
45°	712.0	711.0	717.0	593.0	578.0	647.0	748.0	721.0	892.0	922.0
47.5°	369.0	382.0	463.0	459.0	466.0	459.0	566.0	559.0	671.0	719.0
50°	248.0	252.0	259.0	260.0	367.0	338.0	384.0	435.0	470.0	544.0
52.5°	192.0	195.0	177.0	166.0	225.0	250.0	252.0	301.0	328.0	403.0
55°	107.0	120.0	129.0	130.0	124.0	185.0	184.0	223.0	244.0	294.0
57.5°	14.0	17.0	26.0	84.0	83.0	103.0	129.0	162.0	174.0	215.0
60°	1.0	2.0	3.0	13.0	55.0	60.0	88.0	101.0	121.0	151.0
62.5°	0.0	0.0	1.0	3.0	11.0	35.0	46.0	53.0	71.0	99.0
65°	0.0	0.0	1.0	2.0	4.0	13.0	18.0	29.0	42.0	61.0
67.5°	0.0	0.0	1.0	2.0	3.0	5.0	8.0	13.0	22.0	37.0
70°	0.0	0.0	1.0	2.0	3.0	4.0	6.0	8.0	12.0	20.0
72.5°	0.0	0.0	1.0	1.0	2.0	5.0	5.0	6.0	8.0	11.0
75°	0.0	0.0	1.0	2.0	3.0	5.0	5.0	5.0	6.0	7.0
77.5°	0.0	0.0	1.0	2.0	3.0	5.0	4.0	5.0	5.0	5.0
80°	0.0	0.0	1.0	2.0	3.0	5.0	6.0	5.0	4.0	4.0
82.5°	0.0	0.0	1.0	3.0	3.0	7.0	7.0	7.0	3.0	3.0
85°	0.0	0.0	2.0	3.0	5.0	8.0	8.0	6.0	3.0	2.0
87.5°	0.0	0.0	1.0	2.0	2.0	4.0	6.0	5.0	2.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637897

CATALOG NUMBER: IFLD-S-SA2A-740-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
9300.9	0°	9300.9	9300.9	9300.9	9300.9	9300.9	9300.9	9300.9	9300.9	9300.9
9213.9	2.5°	9287.9	9262.9	9309.9	9315.9	9295.9	9270.9	9212.9	9207.9	9106.9
9009.9	5°	9111.9	9070.9	9100.9	9120.9	9113.9	9086.9	9062.9	9040.9	8949.9
8678.9	7.5°	8783.9	8768.9	8782.9	8797.9	8826.9	8797.9	8787.9	8764.9	8674.9
8352.9	10°	8419.9	8391.9	8444.9	8437.9	8429.9	8421.9	8379.9	8383.9	8277.9
7908.9	12.5°	7972.9	7925.9	7976.9	7982.9	7976.9	7948.9	7901.9	7921.9	7824.9
7308.9	15°	7371.9	7366.9	7403.9	7427.9	7444.9	7414.9	7398.9	7408.9	7350.9
6536.9	17.5°	6633.9	6698.9	6819.9	6860.9	6861.9	6892.9	6883.9	6871.9	6828.9
5681.9	20°	5765.9	5890.9	6076.9	6267.9	6322.9	6296.9	6284.9	6306.9	6242.9
4878.9	22.5°	4964.9	5071.9	5287.9	5566.9	5727.9	5743.9	5740.9	5721.9	5696.9
4235.9	25°	4284.9	4379.9	4586.9	4841.9	5150.9	5196.9	5198.9	5192.9	5170.9
3652.9	27.5°	3710.9	3825.9	3939.9	4167.9	4496.9	4686.9	4662.9	4655.9	4647.9
3161.0	30°	3191.0	3335.9	3442.9	3584.9	3879.9	4136.9	4161.9	4149.9	4130.9
2754.0	32.5°	2779.0	2865.0	3001.0	3097.0	3308.9	3599.9	3695.9	3686.9	3669.9
2387.0	35°	2421.0	2455.0	2562.0	2669.0	2810.0	3092.0	3234.0	3214.0	3211.0
1945.0	37.5°	1994.0	2108.0	2167.0	2275.0	2374.0	2593.0	2789.0	2780.0	2781.0
1564.0	40°	1610.0	1676.0	1793.0	1884.0	1975.0	2135.0	2353.0	2359.0	2357.0
1211.0	42.5°	1236.0	1300.0	1423.0	1522.0	1603.0	1702.0	1910.0	1917.0	1926.0
943.0	45°	965.0	1006.0	1096.0	1199.0	1285.0	1345.0	1503.0	1548.0	1549.0
731.0	47.5°	749.0	796.0	860.0	959.0	1043.0	1086.0	1201.0	1262.0	1259.0
561.0	50°	588.0	631.0	683.0	761.0	852.0	886.0	971.0	1031.0	1028.0
423.0	52.5°	450.0	505.0	551.0	611.0	700.0	729.0	790.0	859.0	849.0
310.0	55°	341.0	397.0	440.0	490.0	571.0	608.0	650.0	705.0	707.0
240.0	57.5°	257.0	315.0	354.0	405.0	466.0	507.0	539.0	598.0	597.0
164.0	60°	184.0	234.0	281.0	334.0	381.0	428.0	450.0	506.0	508.0
116.0	62.5°	133.0	180.0	225.0	271.0	313.0	359.0	379.0	423.0	429.0
76.0	65°	93.0	126.0	178.0	213.0	260.0	294.0	320.0	358.0	365.0
45.0	67.5°	60.0	91.0	141.0	172.0	215.0	244.0	271.0	301.0	310.0
29.0	70°	36.0	69.0	105.0	138.0	177.0	203.0	229.0	255.0	260.0
14.0	72.5°	23.0	48.0	76.0	112.0	142.0	170.0	193.0	212.0	197.0
9.0	75°	13.0	33.0	60.0	88.0	115.0	142.0	161.0	171.0	137.0
6.0	77.5°	8.0	24.0	49.0	71.0	89.0	114.0	126.0	132.0	98.0
4.0	80°	5.0	18.0	41.0	58.0	58.0	84.0	98.0	103.0	71.0
3.0	82.5°	4.0	13.0	32.0	44.0	39.0	63.0	77.0	78.0	50.0
2.0	85°	3.0	10.0	20.0	29.0	27.0	44.0	45.0	50.0	33.0
2.0	87.5°	2.0	6.0	12.0	17.0	15.0	21.0	24.0	27.0	18.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9300.9
9027.9
8876.9
8655.9
8241.9
7796.9
7280.9
6764.9
6196.9
5648.9
5096.9
4600.9
4106.9
3624.9
3178.0
2749.0
2322.0
1896.0
1523.0
1248.0
1028.0
850.0
707.0
595.0
503.0
427.0
363.0
309.0
256.0
183.0
130.0
92.0
66.0
46.0
30.0
16.0
0.0

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