

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: P637811

Luminaire Tested: **IFLD-S-SA2B-727-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637811
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-727-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8051.6 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

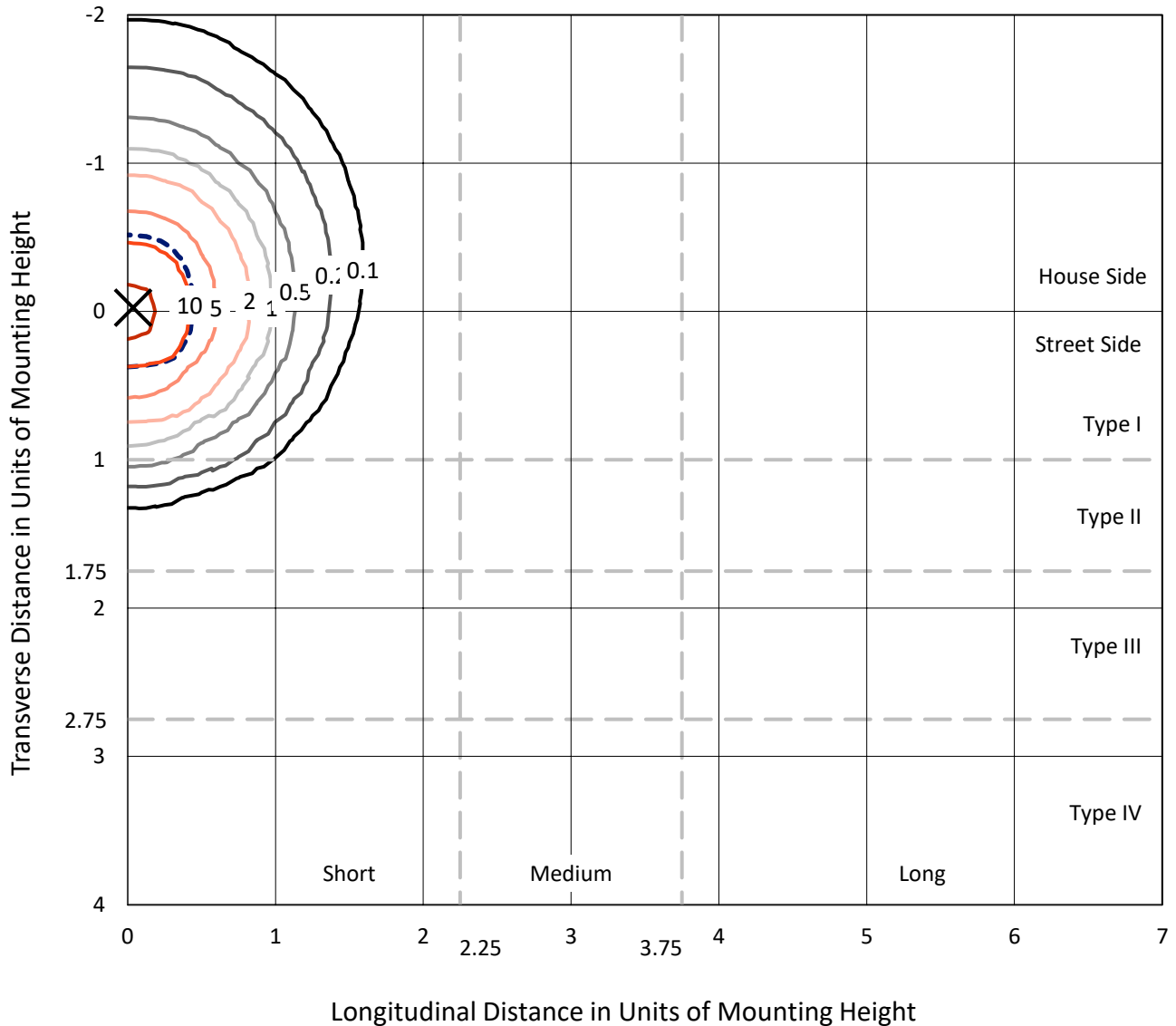
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637811
 CATALOG NUMBER: IFLD-S-SA2B-727-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

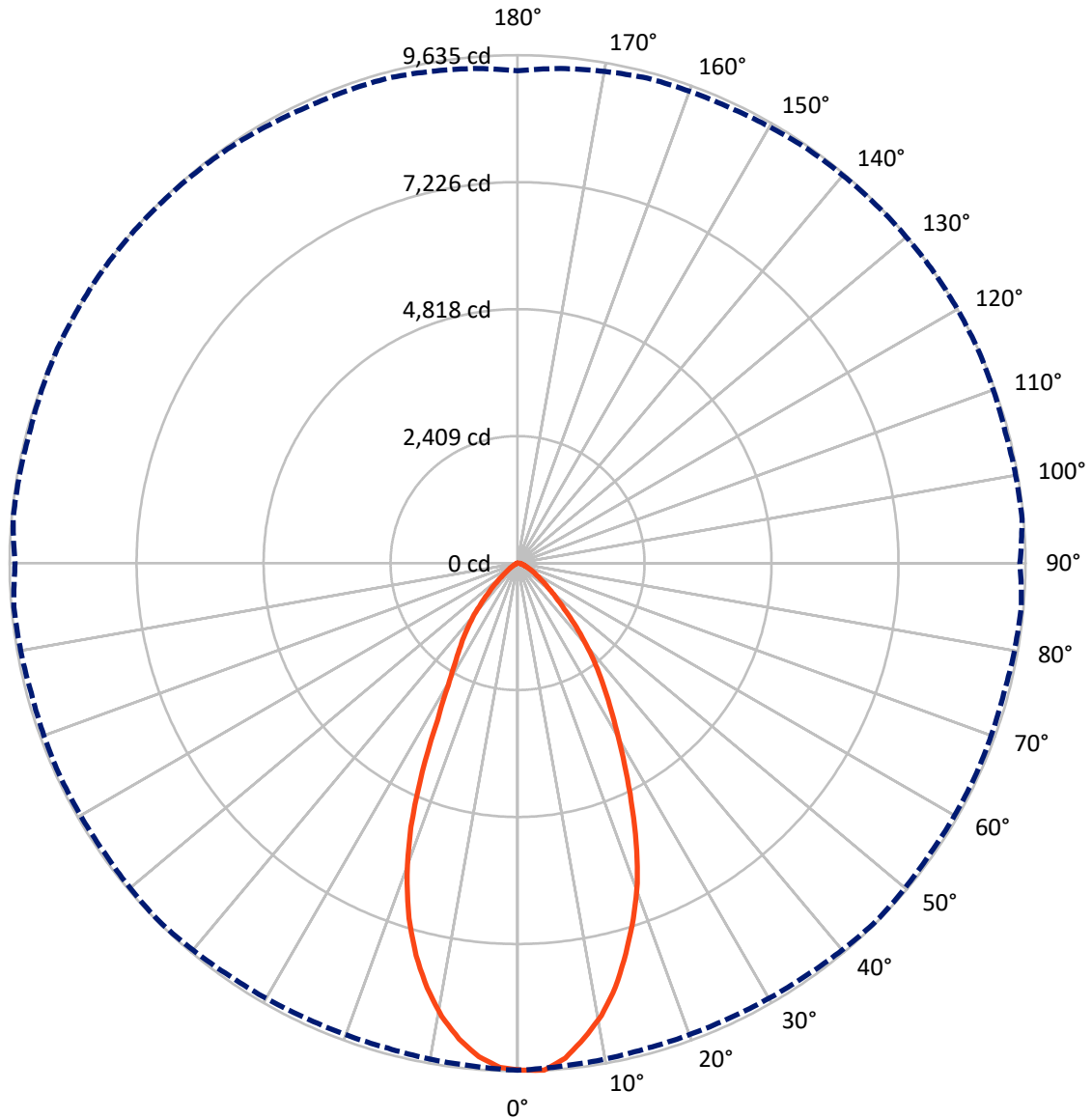
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 24 fc
 Type I - Short - N/A

REPORT NUMBER: P637811
CATALOG NUMBER: IFLD-S-SA2B-727-U-66-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637811

CATALOG NUMBER: IFLD-S-SA2B-727-U-66-VI

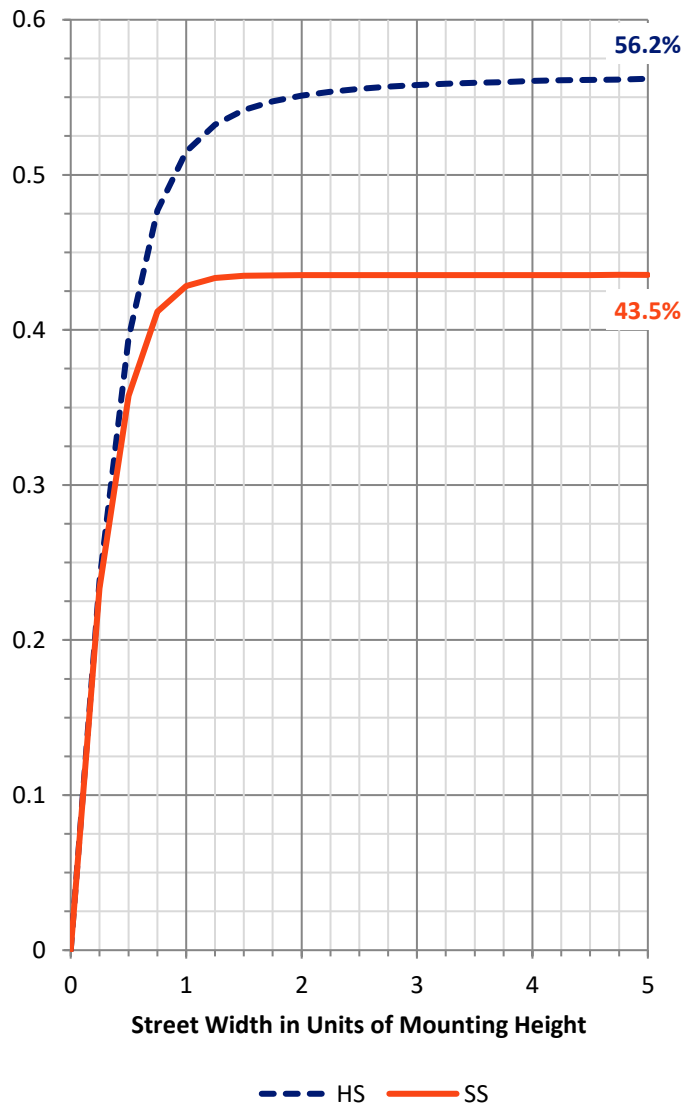
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4568.8	0.0	4568.8
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	3482.8	0.0	3482.8
	% Fixture	43.3	0.0	43.3
Total	Lumens	8051.6	0.0	8051.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	873.5	10.8
10°-20°	2082.2	25.9
20°-30°	2120.7	26.3
30°-40°	1581.4	19.6
40°-50°	826.2	10.3
50°-60°	347.5	4.3
60°-70°	141.9	1.8
70°-80°	59.7	0.7
80°-90°	18.4	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°	8051.6	100.0
0°-180°	8051.6	100.0



REPORT NUMBER: P637811

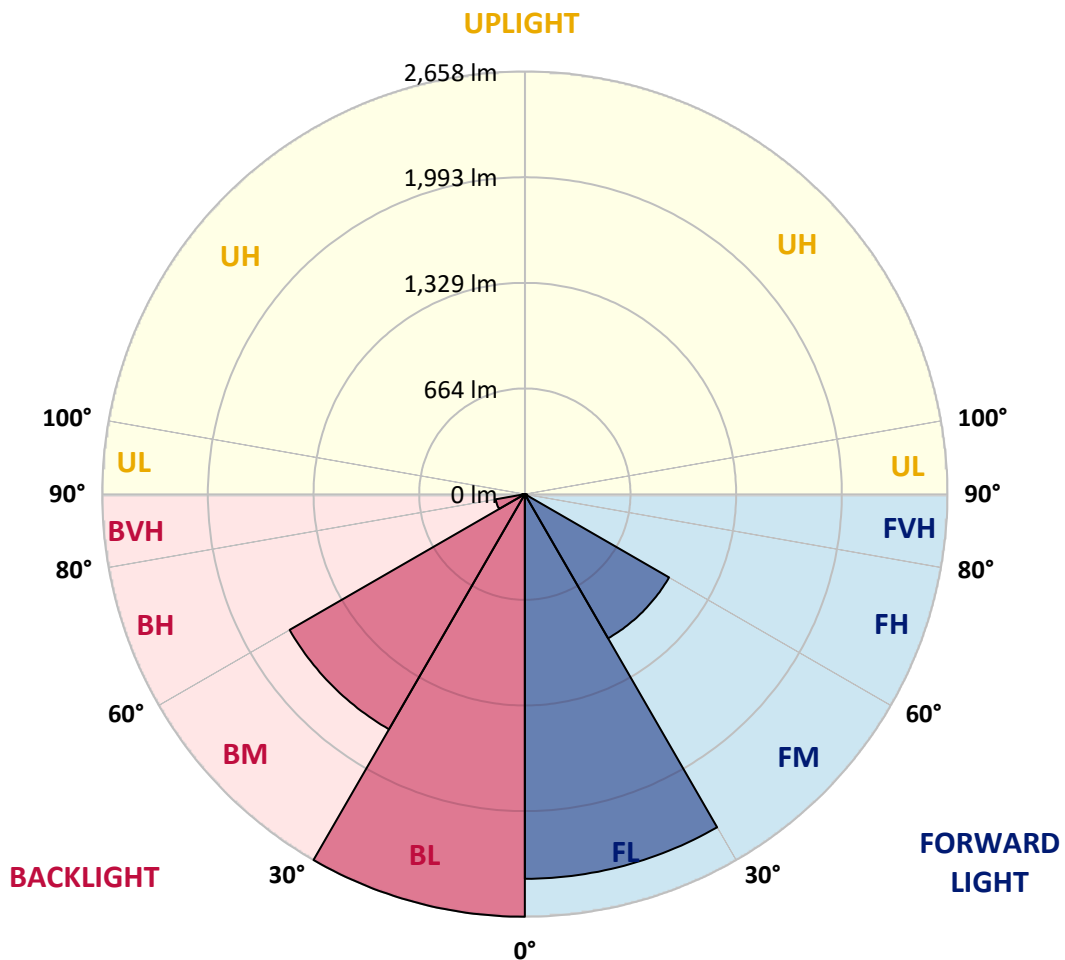
CATALOG NUMBER: IFLD-S-SA2B-727-U-66-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2418.8	30.0			
FM (30°-60°)	1047.1	13.0			
FH (60°-80°)	15.2	0.2			G0/660
FVH (80°-90°)	1.7	0.0			G0/10
BL (0°-30°)	2657.7	33.0	B4/5000		
BM (30°-60°)	1707.9	21.2	B2/2500		
BH (60°-80°)	186.5	2.3	B1/500		G1/500
BVH (80°-90°)	16.7	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





REPORT NUMBER: P637811
 CATALOG NUMBER: IFLD-S-SA2B-727-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9619.7	9619.7	9619.7	9619.7	9619.7	9619.7	9619.7	9619.7	9619.7	9619.7
2.5°	9620.7	9581.4	9525.6	9520.4	9549.3	9612.4	9572.1	9574.2	9549.3	9591.7
5°	9469.7	9432.5	9394.2	9343.5	9385.9	9412.8	9392.1	9369.4	9337.3	9378.7
7.5°	9184.2	9163.6	9106.7	9083.9	9109.8	9139.8	9095.3	9089.1	9044.6	9098.4
10°	8747.8	8739.5	8683.7	8670.2	8693.0	8738.5	8718.8	8714.7	8686.8	8681.6
12.5°	8294.8	8262.7	8193.4	8189.3	8223.4	8291.7	8238.9	8188.3	8203.8	8217.2
15°	7128.1	7094.0	7265.7	7535.6	7677.3	7672.2	7687.7	7626.6	7608.0	7614.2
17.5°	5666.7	5608.8	5670.9	6088.7	6762.0	7153.0	7045.4	6914.0	6843.7	6797.2
20°	4891.0	4894.1	4882.8	4990.3	5410.2	6301.8	6275.9	6022.5	5930.5	5892.2
22.5°	4419.4	4401.8	4377.0	4411.1	4523.9	5047.2	5397.8	5165.1	5133.0	5090.6
25°	3957.1	3957.1	3927.1	3961.2	3993.3	4000.5	4352.2	4447.3	4385.3	4385.3
27.5°	3556.8	3536.1	3522.7	3538.2	3495.8	3292.1	3336.5	3823.7	3781.3	3755.4
30°	3159.7	3153.5	3130.7	3151.4	2994.2	2764.6	2671.5	3226.9	3271.4	3262.1
32.5°	2608.4	2633.2	2734.6	2766.7	2497.7	2312.6	2223.7	2678.7	2856.6	2849.4
35°	1772.7	1793.4	1909.2	2291.9	2070.6	1938.2	1912.4	2130.6	2423.3	2451.2
37.5°	1411.8	1408.7	1441.8	1510.0	1664.1	1632.1	1624.8	1681.7	1976.5	1988.9
40°	1163.5	1159.4	1158.4	1102.5	1064.3	1357.0	1337.3	1303.2	1558.6	1583.5
42.5°	938.1	942.2	945.3	823.3	767.4	1046.7	1035.3	1000.1	1222.5	1251.5
45°	736.4	735.4	741.6	613.3	597.8	669.2	773.6	745.7	922.6	953.6
47.5°	381.6	395.1	478.9	474.7	482.0	474.7	585.4	578.2	694.0	743.6
50°	256.5	260.6	267.9	268.9	379.6	349.6	397.2	449.9	486.1	562.6
52.5°	198.6	201.7	183.1	171.7	232.7	258.6	260.6	311.3	339.2	416.8
55°	110.7	124.1	133.4	134.5	128.2	191.3	190.3	230.6	252.4	304.1
57.5°	14.5	17.6	26.9	86.9	85.8	106.5	133.4	167.6	180.0	222.4
60°	1.0	2.1	3.1	13.4	56.9	62.1	91.0	104.5	125.1	156.2
62.5°	0.0	0.0	1.0	3.1	11.4	36.2	47.6	54.8	73.4	102.4
65°	0.0	0.0	1.0	2.1	4.1	13.4	18.6	30.0	43.4	63.1
67.5°	0.0	0.0	1.0	2.1	3.1	5.2	8.3	13.4	22.8	38.3
70°	0.0	0.0	1.0	2.1	3.1	4.1	6.2	8.3	12.4	20.7
72.5°	0.0	0.0	1.0	1.0	2.1	5.2	5.2	6.2	8.3	11.4
75°	0.0	0.0	1.0	2.1	3.1	5.2	5.2	5.2	6.2	7.2
77.5°	0.0	0.0	1.0	2.1	3.1	5.2	4.1	5.2	5.2	5.2
80°	0.0	0.0	1.0	2.1	3.1	5.2	6.2	5.2	4.1	4.1
82.5°	0.0	0.0	1.0	3.1	3.1	7.2	7.2	7.2	3.1	3.1
85°	0.0	0.0	2.1	3.1	5.2	8.3	8.3	6.2	3.1	2.1
87.5°	0.0	0.0	1.0	2.1	2.1	4.1	6.2	5.2	2.1	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: P637811

CATALOG NUMBER: IFLD-S-SA2B-727-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
9619.7	0°	9619.7	9619.7	9619.7	9619.7	9619.7	9619.7	9619.7	9619.7	9619.7
9529.7	2.5°	9606.2	9580.4	9629.0	9635.2	9614.5	9588.6	9528.7	9523.5	9419.0
9318.7	5°	9424.2	9381.8	9412.8	9433.5	9426.3	9398.3	9373.5	9350.8	9256.6
8976.4	7.5°	9085.0	9069.4	9083.9	9099.4	9129.4	9099.4	9089.1	9065.3	8972.2
8639.2	10°	8708.5	8679.5	8734.3	8727.1	8718.8	8710.6	8667.1	8671.3	8561.6
8180.0	12.5°	8246.2	8197.6	8250.3	8256.5	8250.3	8221.3	8172.7	8193.4	8093.1
7559.4	15°	7624.6	7619.4	7657.7	7682.5	7700.1	7669.1	7652.5	7662.8	7602.9
6761.0	17.5°	6861.3	6928.5	7053.7	7096.1	7097.1	7129.2	7119.9	7107.4	7063.0
5876.7	20°	5963.6	6092.8	6285.2	6482.8	6539.6	6512.7	6500.3	6523.1	6456.9
5046.2	22.5°	5135.1	5245.8	5469.2	5757.7	5924.3	5940.8	5937.7	5918.0	5892.2
4381.1	25°	4431.8	4530.1	4744.2	5007.9	5327.5	5375.1	5377.1	5370.9	5348.2
3778.2	27.5°	3838.1	3957.1	4075.0	4310.8	4651.1	4847.6	4822.8	4815.5	4807.2
3269.3	30°	3300.3	3450.3	3561.0	3707.8	4012.9	4278.7	4304.6	4292.2	4272.5
2848.4	32.5°	2874.2	2963.2	3103.8	3203.1	3422.4	3723.3	3822.6	3813.3	3795.7
2468.8	35°	2503.9	2539.1	2649.8	2760.4	2906.3	3197.9	3344.8	3324.1	3321.0
2011.6	37.5°	2062.3	2180.2	2241.2	2352.9	2455.3	2681.8	2884.6	2875.2	2876.3
1617.6	40°	1665.2	1733.4	1854.4	1948.5	2042.7	2208.1	2433.6	2439.8	2437.8
1252.5	42.5°	1278.3	1344.5	1471.8	1574.1	1657.9	1760.3	1975.4	1982.7	1992.0
975.3	45°	998.1	1040.5	1133.6	1240.1	1329.0	1391.1	1554.5	1601.0	1602.1
756.0	47.5°	774.7	823.3	889.5	991.9	1078.7	1123.2	1242.1	1305.2	1302.1
580.2	50°	608.1	652.6	706.4	787.1	881.2	916.4	1004.3	1066.3	1063.2
437.5	52.5°	465.4	522.3	569.9	631.9	724.0	754.0	817.1	888.4	878.1
320.6	55°	352.7	410.6	455.1	506.8	590.6	628.8	672.3	729.2	731.2
248.2	57.5°	265.8	325.8	366.1	418.9	482.0	524.4	557.5	618.5	617.5
169.6	60°	190.3	242.0	290.6	345.4	394.1	442.7	465.4	523.3	525.4
120.0	62.5°	137.6	186.2	232.7	280.3	323.7	371.3	392.0	437.5	443.7
78.6	65°	96.2	130.3	184.1	220.3	268.9	304.1	331.0	370.3	377.5
46.5	67.5°	62.1	94.1	145.8	177.9	222.4	252.4	280.3	311.3	320.6
30.0	70°	37.2	71.4	108.6	142.7	183.1	210.0	236.8	263.7	268.9
14.5	72.5°	23.8	49.6	78.6	115.8	146.9	175.8	199.6	219.3	203.7
9.3	75°	13.4	34.1	62.1	91.0	118.9	146.9	166.5	176.9	141.7
6.2	77.5°	8.3	24.8	50.7	73.4	92.0	117.9	130.3	136.5	101.4
4.1	80°	5.2	18.6	42.4	60.0	60.0	86.9	101.4	106.5	73.4
3.1	82.5°	4.1	13.4	33.1	45.5	40.3	65.2	79.6	80.7	51.7
2.1	85°	3.1	10.3	20.7	30.0	27.9	45.5	46.5	51.7	34.1
2.1	87.5°	2.1	6.2	12.4	17.6	15.5	21.7	24.8	27.9	18.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9619.7
9337.3
9181.1
8952.6
8524.4
8064.1
7530.5
6996.8
6409.3
5842.5
5271.6
4758.6
4247.7
3749.2
3286.9
2843.2
2401.6
1961.0
1575.2
1290.8
1063.2
879.1
731.2
615.4
520.2
441.6
375.4
319.6
264.8
189.3
134.5
95.2
68.3
47.6
31.0
16.5
0.0

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