

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: P638278

Luminaire Tested: **IFLD-S-SA2E-830-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638278
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-830-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11062.2 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

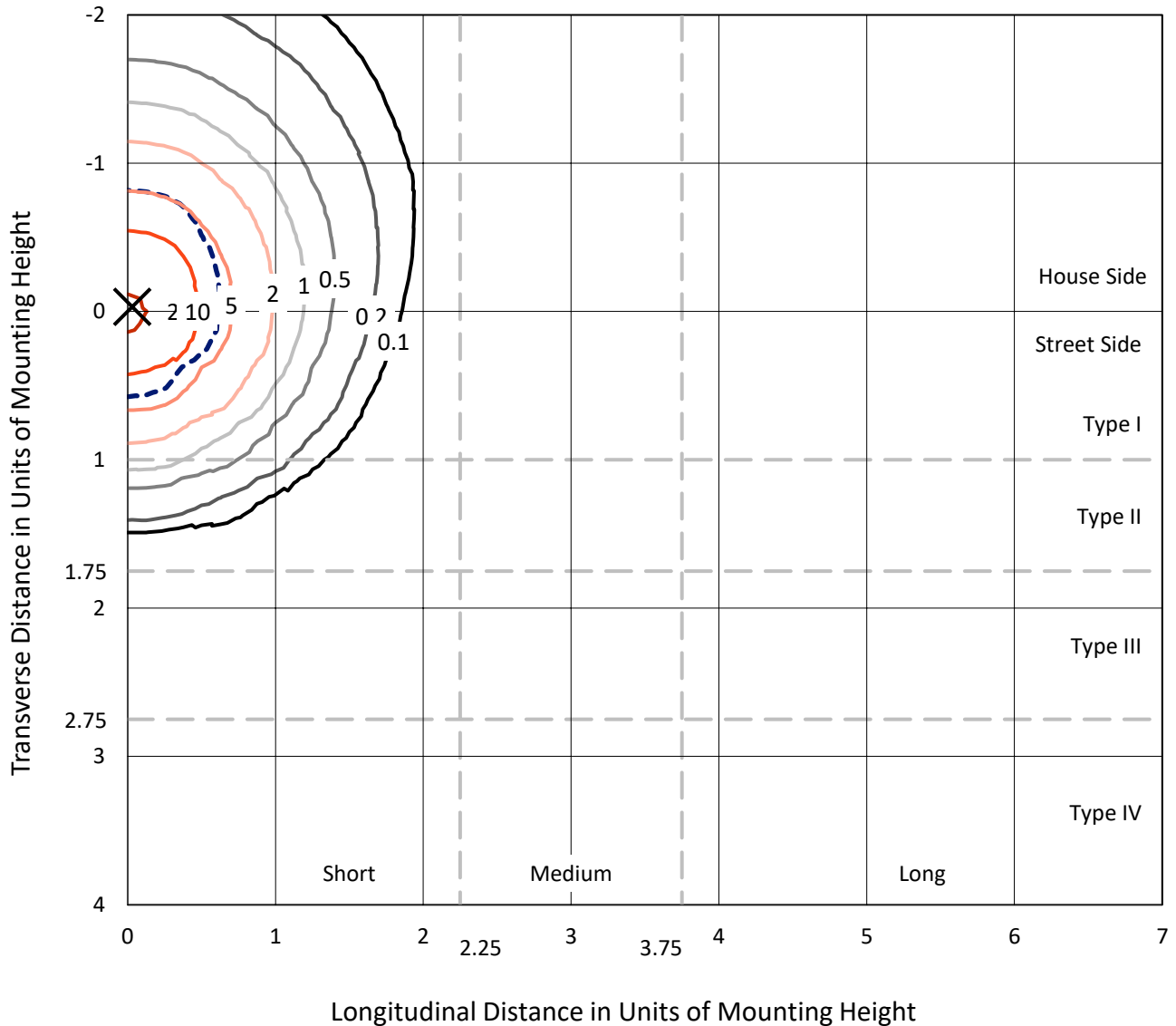
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

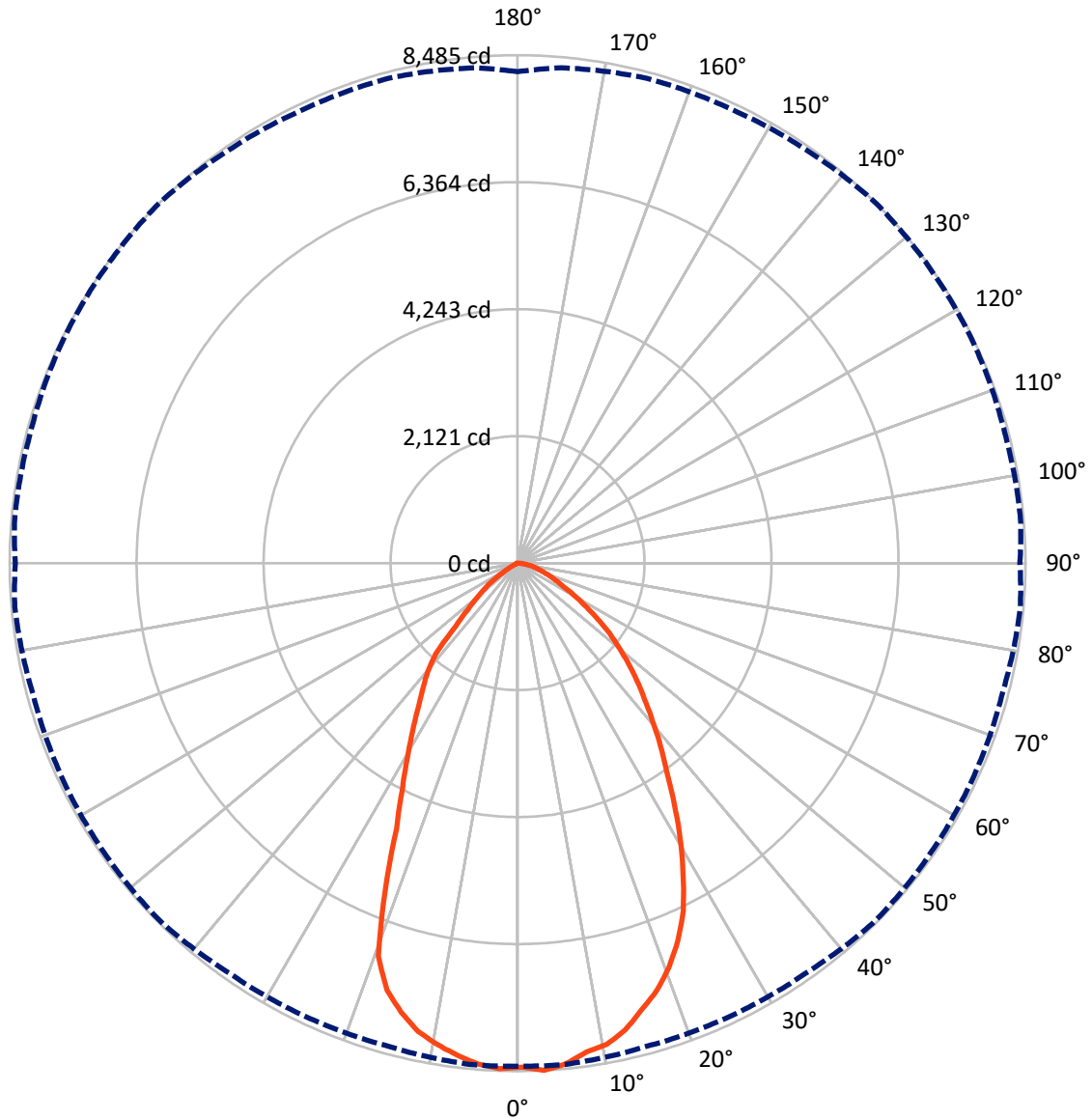
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 21 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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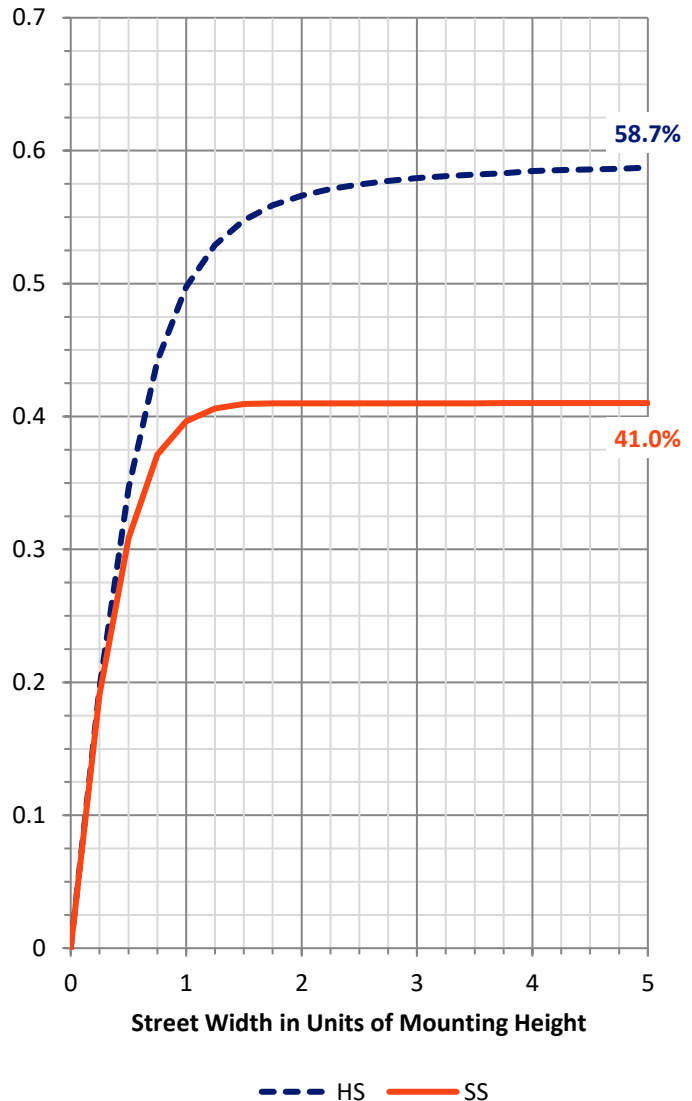
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6551.6	0.0	6551.6
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	4510.6	0.0	4510.6
	% Fixture	40.8	0.0	40.8
Total	Lumens	11062.2	0.0	11062.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	789.5	7.1
10°-20°	2117.1	19.1
20°-30°	2581.9	23.3
30°-40°	2357.3	21.3
40°-50°	1703.5	15.4
50°-60°	930.2	8.4
60°-70°	384.6	3.5
70°-80°	155.8	1.4
80°-90°	42.4	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°	11062.2	100.0
0°-180°	11062.2	100.0



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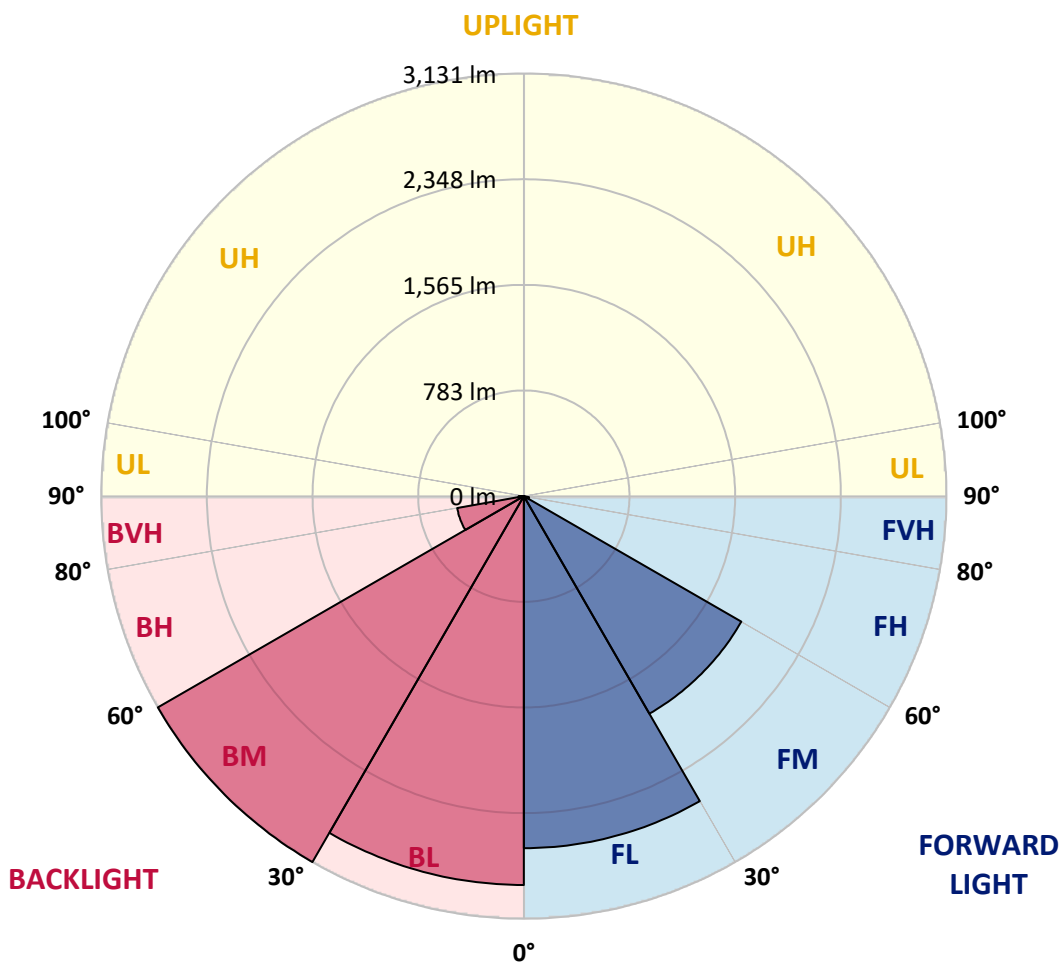
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2607.8	23.6			
FM (30°-60°)	1860.5	16.8			
FH (60°-80°)	39.0	0.4			G0/660
FVH (80°-90°)	3.4	0.0			G0/10
BL (0°-30°)	2880.8	26.0	B4/5000		
BM (30°-60°)	3130.5	28.3	B3/5000		
BH (60°-80°)	501.4	4.5	B2/1000		G2/1000
BVH (80°-90°)	39.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8418.3	8418.3	8418.3	8418.3	8418.3	8418.3	8418.3	8418.3	8418.3	8418.3
2.5°	8402.7	8413.6	8354.4	8360.7	8371.6	8451.0	8430.8	8412.1	8385.6	8430.8
5°	8391.8	8398.1	8335.8	8313.9	8323.3	8394.9	8329.5	8329.5	8323.3	8315.5
7.5°	8307.7	8310.8	8262.5	8223.6	8248.5	8281.2	8232.9	8256.3	8222.0	8248.5
10°	8181.5	8161.3	8103.6	8092.7	8120.8	8151.9	8119.2	8141.0	8109.9	8130.1
12.5°	7996.2	7965.0	7918.3	7904.2	7952.5	7994.6	7968.1	7955.7	7915.1	7965.0
15°	7281.1	7257.8	7363.7	7549.1	7715.8	7751.6	7723.5	7736.0	7651.9	7665.9
17.5°	5992.8	5949.2	6062.9	6502.2	7128.5	7458.7	7433.8	7352.8	7228.2	7256.2
20°	5446.0	5433.6	5421.1	5525.5	5963.2	6964.9	6999.2	6793.5	6615.9	6577.0
22.5°	5137.6	5132.9	5120.5	5143.8	5259.1	5902.5	6295.0	6105.0	5986.6	5975.7
25°	4855.6	4847.9	4810.5	4840.1	4840.1	4877.5	5380.6	5495.9	5391.5	5379.1
27.5°	4569.0	4555.0	4548.8	4562.8	4491.1	4238.8	4366.5	4928.9	4874.3	4877.5
30°	4259.0	4254.3	4237.2	4266.8	4045.6	3732.5	3651.5	4414.8	4425.7	4422.6
32.5°	3797.9	3818.2	3896.0	3928.8	3564.2	3305.6	3170.1	3819.7	4042.5	4037.8
35°	2758.9	2758.9	3012.8	3484.8	3123.4	2928.7	2855.4	3238.7	3663.9	3679.5
37.5°	2268.1	2275.9	2325.8	2540.8	2695.0	2626.4	2604.6	2726.1	3177.9	3202.8
40°	2040.7	2040.7	2040.7	1951.9	1947.2	2366.3	2353.8	2314.9	2744.8	2799.4
42.5°	1833.5	1838.2	1841.3	1617.0	1492.4	2045.4	2017.3	1958.1	2356.9	2420.8
45°	1620.1	1627.9	1637.2	1352.2	1297.6	1472.1	1707.3	1641.9	1973.7	2056.3
47.5°	989.2	1001.7	1213.5	1146.5	1152.8	1135.6	1392.7	1381.8	1618.5	1735.4
50°	668.3	673.0	693.2	727.5	989.2	892.6	986.1	1143.4	1229.1	1406.7
52.5°	560.8	568.6	518.7	472.0	649.6	697.9	688.5	849.0	883.3	1102.9
55°	394.1	419.0	395.7	391.0	369.2	542.1	521.9	652.7	674.5	838.1
57.5°	40.5	46.7	81.0	291.3	241.5	306.9	372.3	478.2	500.1	618.4
60°	3.1	3.1	7.8	40.5	176.0	183.8	257.0	294.4	336.5	431.5
62.5°	0.0	1.6	3.1	6.2	28.0	98.1	129.3	154.2	202.5	278.8
65°	0.0	0.0	1.6	4.7	6.2	37.4	49.8	81.0	110.6	172.9
67.5°	0.0	0.0	1.6	3.1	4.7	9.3	17.1	29.6	59.2	98.1
70°	0.0	0.0	1.6	3.1	4.7	7.8	12.5	18.7	26.5	53.0
72.5°	0.0	0.0	1.6	1.6	3.1	7.8	9.3	12.5	18.7	26.5
75°	0.0	0.0	1.6	1.6	4.7	9.3	7.8	9.3	12.5	17.1
77.5°	0.0	0.0	1.6	3.1	4.7	9.3	7.8	9.3	9.3	10.9
80°	0.0	0.0	1.6	3.1	6.2	10.9	9.3	9.3	7.8	7.8
82.5°	0.0	0.0	1.6	4.7	6.2	14.0	14.0	12.5	6.2	4.7
85°	0.0	0.0	3.1	6.2	9.3	15.6	15.6	12.5	4.7	3.1
87.5°	0.0	0.0	3.1	4.7	7.8	10.9	15.6	12.5	4.7	1.6
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°
8418.3	0°	8418.3	8418.3	8418.3	8418.3	8418.3	8418.3	8418.3	8418.3	8418.3
8391.8	2.5°	8433.9	8424.5	8455.7	8468.2	8485.3	8419.9	8379.4	8380.9	8306.2
8296.8	5°	8346.7	8348.2	8388.7	8385.6	8402.7	8366.9	8351.3	8324.8	8259.4
8176.9	7.5°	8236.1	8222.0	8261.0	8290.6	8247.0	8271.9	8236.1	8248.5	8209.6
8070.9	10°	8150.4	8117.7	8153.5	8173.7	8175.3	8150.4	8116.1	8083.4	8069.4
7905.8	12.5°	7960.3	7918.3	7979.0	8007.1	8002.4	7954.1	7915.1	7922.9	7877.8
7616.1	15°	7698.6	7700.2	7743.8	7770.3	7745.3	7734.4	7737.6	7718.9	7679.9
7215.7	17.5°	7298.3	7321.6	7436.9	7500.8	7514.8	7493.0	7482.1	7460.3	7421.3
6577.0	20°	6631.5	6771.7	6977.4	7175.2	7214.1	7207.9	7169.0	7159.6	7137.8
5944.5	22.5°	6045.8	6150.2	6388.5	6697.0	6855.8	6871.4	6824.7	6810.7	6787.3
5379.1	25°	5439.8	5552.0	5767.0	6101.9	6430.6	6497.6	6489.8	6447.7	6422.8
4877.5	27.5°	4928.9	5041.0	5235.7	5538.0	5890.0	6105.0	6125.2	6058.3	6056.7
4430.4	30°	4467.8	4622.0	4770.0	5016.1	5357.3	5679.7	5714.0	5667.3	5671.9
4020.7	32.5°	4106.3	4234.1	4360.3	4525.4	4808.9	5184.3	5318.3	5274.7	5257.6
3679.5	35°	3737.1	3824.4	3953.7	4104.8	4298.0	4670.3	4902.4	4869.7	4852.5
3218.4	37.5°	3316.5	3466.1	3559.6	3729.4	3880.5	4176.4	4503.6	4498.9	4463.1
2825.8	40°	2885.0	3042.4	3184.1	3355.5	3472.3	3707.5	4070.5	4069.0	4073.6
2419.3	42.5°	2494.0	2638.9	2810.3	2997.2	3109.4	3280.7	3670.2	3692.0	3718.5
2084.3	45°	2140.4	2271.3	2430.2	2657.6	2793.1	2891.3	3237.1	3336.8	3335.2
1785.2	47.5°	1822.6	1945.7	2079.7	2300.9	2473.8	2562.6	2849.2	2991.0	2981.6
1464.3	50°	1529.8	1638.8	1779.0	1939.5	2171.6	2249.5	2462.9	2649.8	2635.8
1166.8	52.5°	1230.7	1381.8	1500.2	1646.6	1891.2	1967.5	2132.6	2314.9	2304.0
875.5	55°	959.6	1106.0	1249.4	1375.5	1581.2	1694.9	1813.3	2000.2	1997.1
685.4	57.5°	725.9	886.4	1021.9	1141.9	1305.4	1445.6	1540.7	1710.5	1732.3
468.9	60°	537.4	660.5	806.9	940.9	1070.2	1215.1	1278.9	1445.6	1455.0
320.9	62.5°	366.1	501.6	644.9	766.4	863.0	1012.6	1070.2	1207.3	1224.4
205.6	65°	253.9	341.2	504.7	592.0	710.4	838.1	895.7	1004.8	1039.0
118.4	67.5°	168.2	243.0	394.1	473.6	590.4	677.6	750.9	839.7	877.0
74.8	70°	91.9	179.1	282.0	373.9	475.1	559.2	630.9	702.6	735.3
34.3	72.5°	62.3	120.0	196.3	296.0	383.2	465.8	529.6	582.6	584.2
20.3	75°	31.2	81.0	149.5	229.0	299.1	380.1	437.7	468.9	431.5
12.5	77.5°	18.7	59.2	121.5	183.8	243.0	306.9	339.6	356.7	296.0
9.3	80°	10.9	42.1	95.0	146.4	168.2	225.9	257.0	261.7	197.8
6.2	82.5°	7.8	31.2	74.8	107.5	102.8	158.9	193.2	186.9	126.2
4.7	85°	4.7	21.8	46.7	67.0	62.3	104.4	112.2	115.3	73.2
3.1	87.5°	3.1	12.5	24.9	35.8	29.6	45.2	45.2	54.5	35.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8418.3
8209.6
8243.8
8144.1
8007.1
7838.8
7641.0
7404.2
7088.0
6781.1
6396.3
6053.6
5648.6
5259.1
4829.2
4492.7
4073.6
3704.4
3338.4
2984.7
2648.2
2327.3
2004.9
1722.9
1469.0
1227.5
1031.3
872.4
722.8
570.2
403.5
285.1
185.4
116.8
67.0
31.2
0.0

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