

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: P638106

Luminaire Tested: **IFLD-S-SA3B-730-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638106
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-730-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11918.2 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

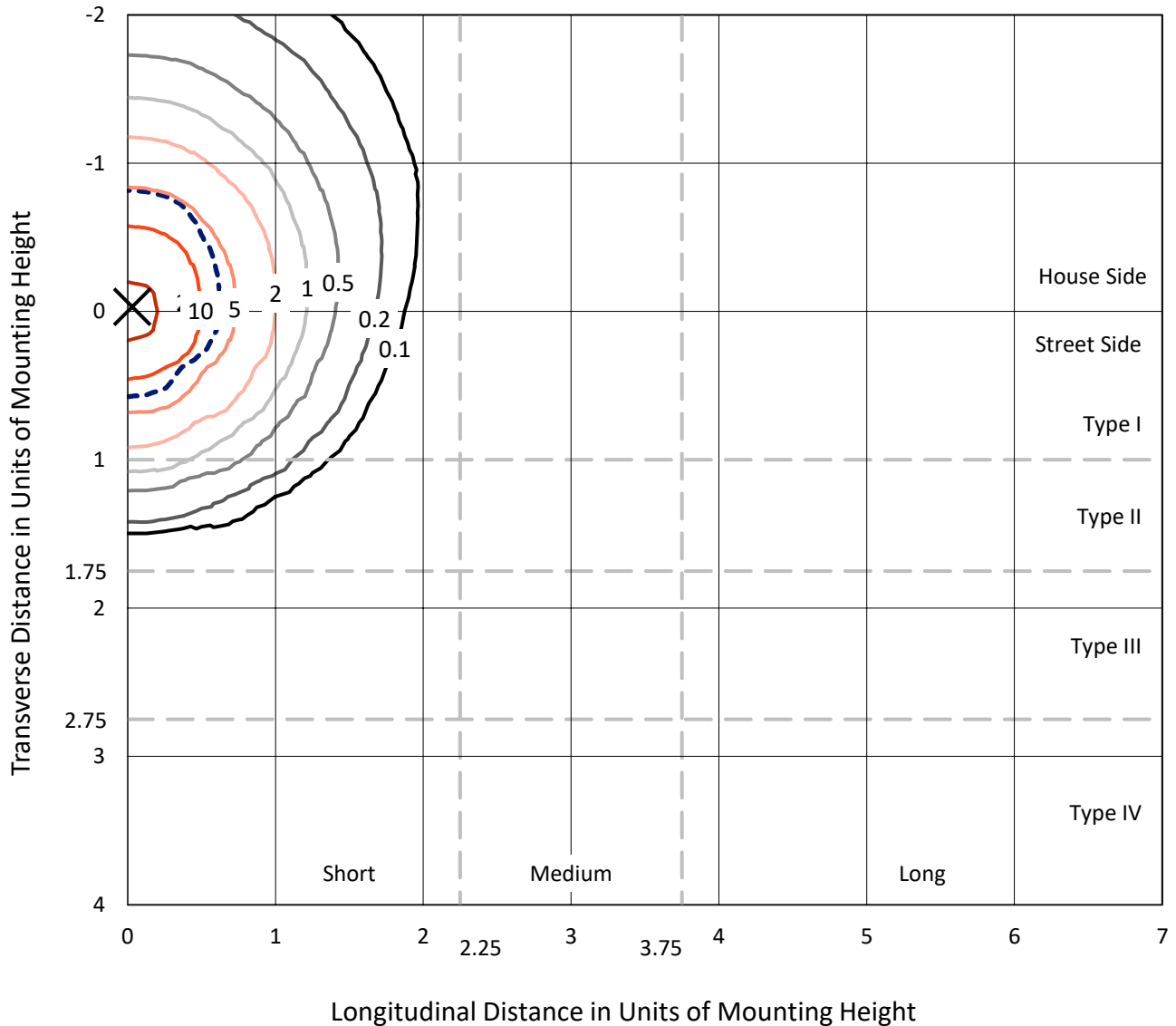
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

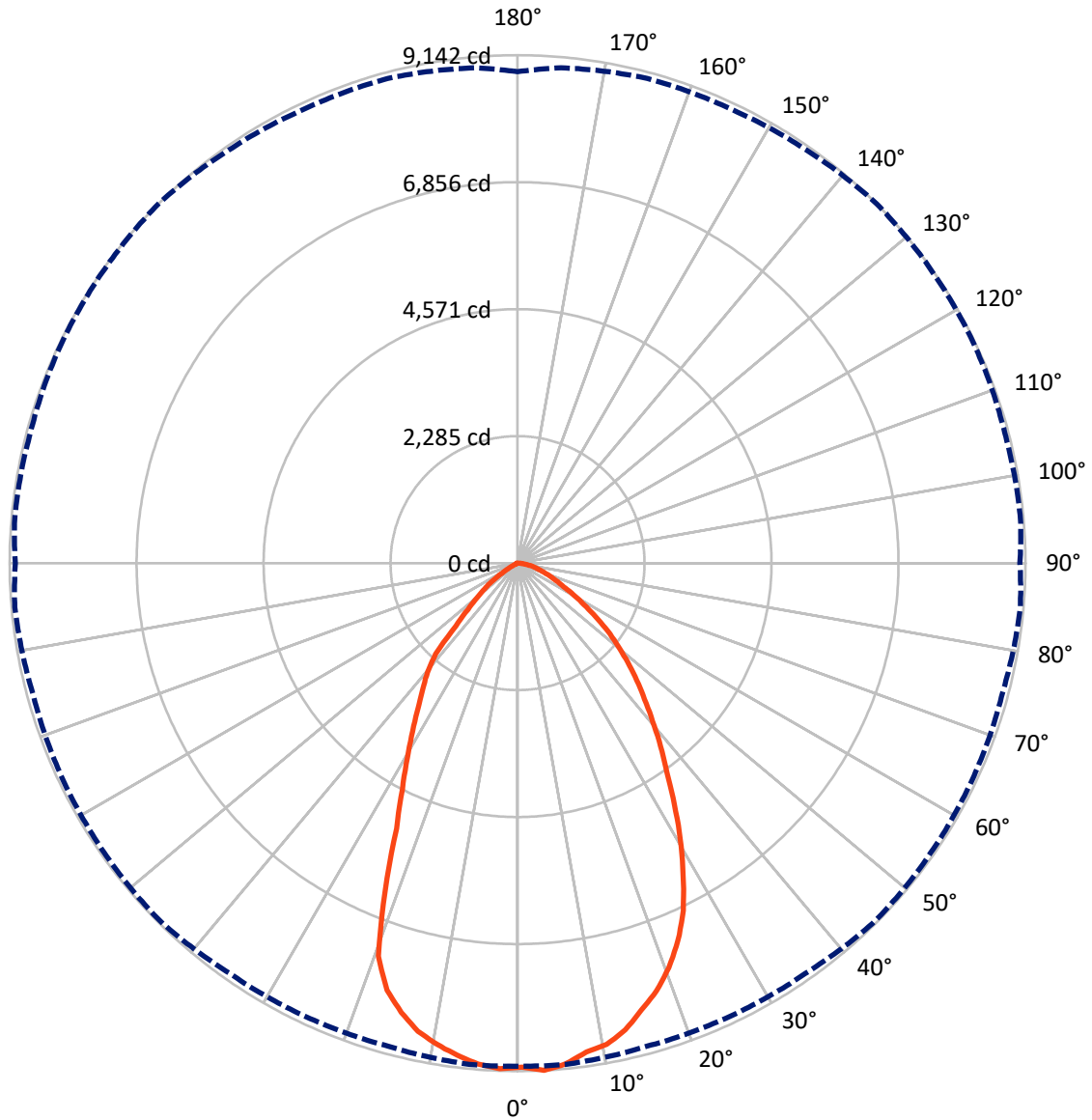
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 22.7 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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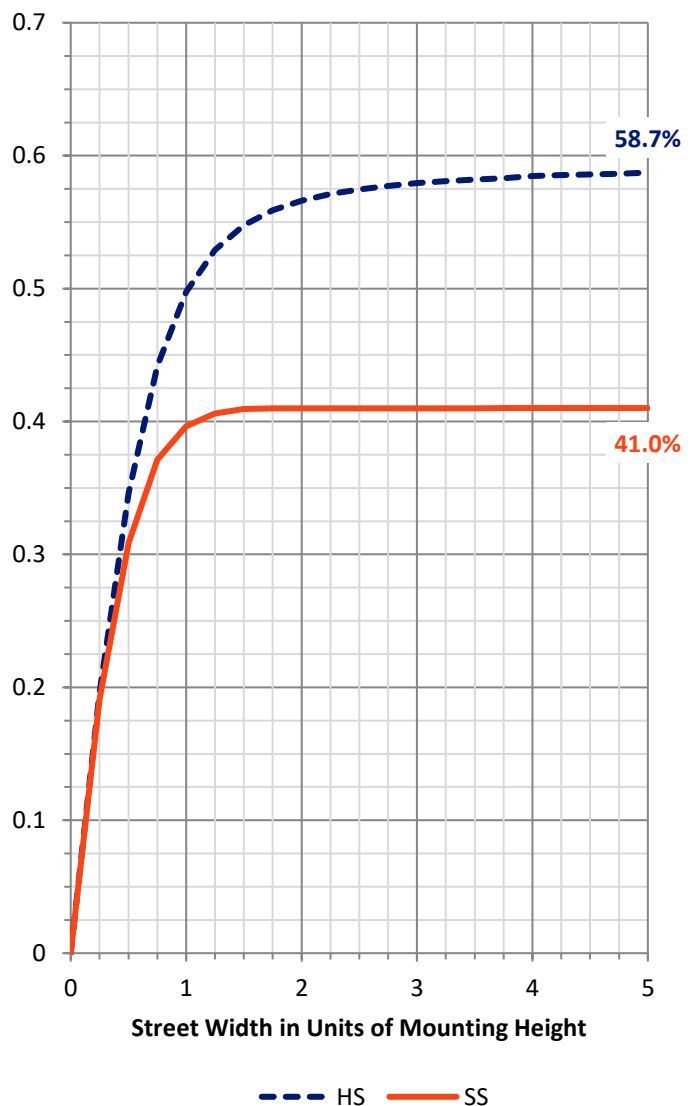
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7058.6	0.0	7058.6
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	4859.7	0.0	4859.7
	% Fixture	40.8	0.0	40.8
Total	Lumens	11918.2	0.0	11918.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	850.6	7.1
10°-20°	2280.9	19.1
20°-30°	2781.7	23.3
30°-40°	2539.7	21.3
40°-50°	1835.4	15.4
50°-60°	1002.1	8.4
60°-70°	414.3	3.5
70°-80°	167.8	1.4
80°-90°	45.6	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°	11918.2	100.0
0°-180°	11918.2	100.0



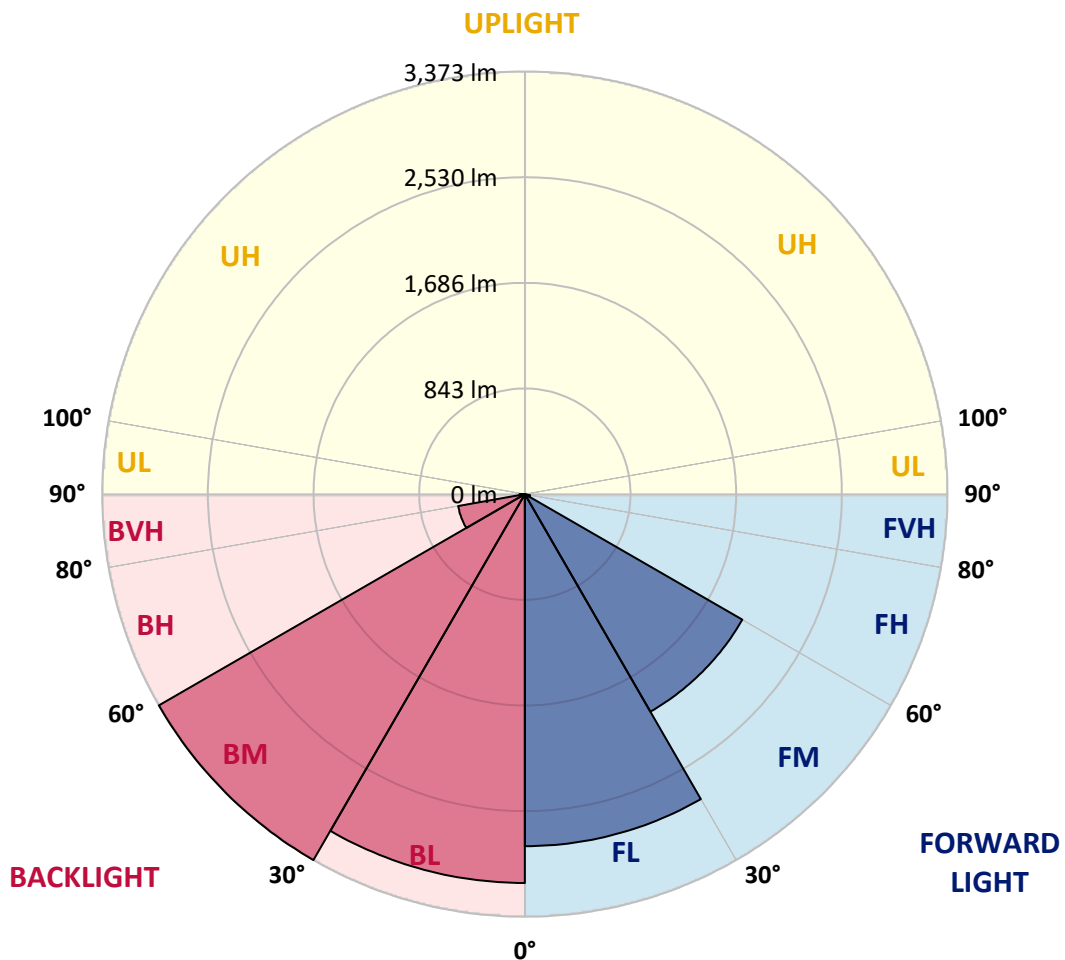
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2809.6	23.6			
FM (30°-60°)	2004.4	16.8			
FH (60°-80°)	42.0	0.4			G0/660
FVH (80°-90°)	3.7	0.0			G0/10
BL (0°-30°)	3103.7	26.0	B4/5000		
BM (30°-60°)	3372.8	28.3	B3/5000		
BH (60°-80°)	540.2	4.5	B2/1000		G2/1000
BVH (80°-90°)	42.0	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°	9069.7	9069.7	9069.7	9069.7	9069.7	9069.7	9069.7	9069.7	9069.7	9069.7
2.5°	9053.0	9064.7	9000.9	9007.6	9019.4	9105.0	9083.2	9063.0	9034.5	9083.2
5°	9041.2	9047.9	8980.8	8957.3	8967.4	9044.6	8974.1	8974.1	8967.4	8959.0
7.5°	8950.6	8953.9	8901.9	8860.0	8886.8	8922.0	8870.0	8895.2	8858.3	8886.8
10°	8814.6	8792.8	8730.7	8719.0	8749.2	8782.7	8747.5	8771.0	8737.4	8759.2
12.5°	8614.9	8581.3	8531.0	8515.9	8567.9	8613.2	8584.7	8571.3	8527.6	8581.3
15°	7844.6	7819.4	7933.5	8133.2	8312.8	8351.4	8321.2	8334.6	8244.0	8259.1
17.5°	6456.6	6409.6	6532.1	7005.4	7680.1	8035.9	8009.0	7921.8	7787.5	7817.7
20°	5867.5	5854.0	5840.6	5953.1	6424.7	7503.9	7540.8	7319.2	7127.9	7085.9
22.5°	5535.2	5530.1	5516.7	5541.9	5666.1	6359.2	6782.2	6577.4	6449.9	6438.1
25°	5231.4	5223.0	5182.7	5214.6	5214.6	5254.9	5797.0	5921.2	5808.7	5795.3
27.5°	4922.6	4907.5	4900.7	4915.9	4838.7	4566.8	4704.4	5310.3	5251.5	5254.9
30°	4588.6	4583.5	4565.1	4597.0	4358.6	4021.3	3934.0	4756.4	4768.2	4764.8
32.5°	4091.8	4113.6	4197.5	4232.8	3840.0	3561.4	3415.4	4115.3	4355.3	4350.3
35°	2972.3	2972.3	3245.9	3754.4	3365.1	3155.3	3076.4	3489.3	3947.5	3964.2
37.5°	2443.7	2452.1	2505.8	2737.4	2903.5	2829.7	2806.2	2937.1	3423.8	3450.7
40°	2198.6	2198.6	2198.6	2103.0	2097.9	2549.4	2536.0	2494.0	2957.2	3016.0
42.5°	1975.4	1980.4	1983.8	1742.1	1607.8	2203.7	2173.4	2109.7	2539.3	2608.1
45°	1745.5	1753.9	1763.9	1456.8	1398.1	1586.0	1839.5	1769.0	2126.5	2215.4
47.5°	1065.7	1079.2	1307.4	1235.3	1242.0	1223.5	1500.4	1488.7	1743.8	1869.7
50°	720.0	725.0	746.9	783.8	1065.7	961.7	1062.4	1231.9	1324.2	1515.5
52.5°	604.2	612.6	558.9	508.5	699.9	751.9	741.8	914.7	951.6	1188.3
55°	424.6	451.5	426.3	421.3	397.8	584.1	562.2	703.2	726.7	902.9
57.5°	43.6	50.4	87.3	313.8	260.1	330.6	401.1	515.2	538.7	666.3
60°	3.4	3.4	8.4	43.6	189.7	198.0	276.9	317.2	362.5	464.9
62.5°	0.0	1.7	3.4	6.7	30.2	105.7	139.3	166.2	218.2	300.4
65°	0.0	0.0	1.7	5.0	6.7	40.3	53.7	87.3	119.2	186.3
67.5°	0.0	0.0	1.7	3.4	5.0	10.1	18.5	31.9	63.8	105.7
70°	0.0	0.0	1.7	3.4	5.0	8.4	13.4	20.1	28.5	57.1
72.5°	0.0	0.0	1.7	1.7	3.4	8.4	10.1	13.4	20.1	28.5
75°	0.0	0.0	1.7	1.7	5.0	10.1	8.4	10.1	13.4	18.5
77.5°	0.0	0.0	1.7	3.4	5.0	10.1	8.4	10.1	10.1	11.7
80°	0.0	0.0	1.7	3.4	6.7	11.7	10.1	10.1	8.4	8.4
82.5°	0.0	0.0	1.7	5.0	6.7	15.1	15.1	13.4	6.7	5.0
85°	0.0	0.0	3.4	6.7	10.1	16.8	16.8	13.4	5.0	3.4
87.5°	0.0	0.0	3.4	5.0	8.4	11.7	16.8	13.4	5.0	1.7
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°
9069.7	0°	9069.7	9069.7	9069.7	9069.7	9069.7	9069.7	9069.7	9069.7	9069.7
9041.2	2.5°	9086.5	9076.5	9110.0	9123.4	9141.9	9071.4	9027.8	9029.5	8948.9
8938.8	5°	8992.5	8994.2	9037.9	9034.5	9053.0	9014.4	8997.6	8969.0	8898.6
8809.6	7.5°	8873.4	8858.3	8900.2	8932.1	8885.1	8912.0	8873.4	8886.8	8844.8
8695.5	10°	8781.1	8745.8	8784.4	8806.2	8807.9	8781.1	8744.1	8708.9	8693.8
8517.6	12.5°	8576.3	8531.0	8596.5	8626.7	8621.6	8569.6	8527.6	8536.0	8487.4
8205.4	15°	8294.3	8296.0	8343.0	8371.6	8344.7	8333.0	8336.3	8316.2	8274.2
7774.1	17.5°	7863.0	7888.2	8012.4	8081.2	8096.3	8072.8	8061.1	8037.6	7995.6
7085.9	20°	7144.7	7295.7	7517.3	7730.4	7772.4	7765.7	7723.7	7713.6	7690.1
6404.5	22.5°	6513.6	6626.1	6882.9	7215.2	7386.4	7403.2	7352.8	7337.7	7312.5
5795.3	25°	5860.8	5981.6	6213.2	6574.1	6928.2	7000.4	6992.0	6946.6	6919.8
5254.9	27.5°	5310.3	5431.1	5640.9	5966.5	6345.8	6577.4	6599.2	6527.1	6525.4
4773.2	30°	4813.5	4979.6	5139.1	5404.3	5771.8	6119.2	6156.1	6105.8	6110.8
4331.8	32.5°	4424.1	4561.7	4697.7	4875.6	5181.0	5585.5	5729.8	5682.9	5664.4
3964.2	35°	4026.3	4120.3	4259.6	4422.4	4630.5	5031.7	5281.7	5246.5	5228.0
3467.4	37.5°	3573.2	3734.3	3835.0	4017.9	4180.7	4499.6	4852.1	4847.0	4808.4
3044.5	40°	3108.3	3277.8	3430.5	3615.1	3741.0	3994.4	4385.5	4383.8	4388.9
2606.5	42.5°	2687.0	2843.1	3027.7	3229.1	3350.0	3534.6	3954.2	3977.7	4006.2
2245.6	45°	2306.0	2447.0	2618.2	2863.2	3009.3	3115.0	3487.6	3595.0	3593.3
1923.4	47.5°	1963.7	2096.2	2240.6	2478.9	2665.2	2760.9	3069.7	3222.4	3212.3
1577.6	50°	1648.1	1765.6	1916.7	2089.5	2339.6	2423.5	2653.5	2854.9	2839.7
1257.1	52.5°	1325.9	1488.7	1616.2	1774.0	2037.5	2119.7	2297.6	2494.0	2482.3
943.2	55°	1033.9	1191.6	1346.0	1482.0	1703.5	1826.0	1953.6	2155.0	2151.6
738.5	57.5°	782.1	955.0	1101.0	1230.2	1406.4	1557.5	1659.9	1842.8	1866.3
505.2	60°	579.0	711.6	869.4	1013.7	1153.0	1309.1	1377.9	1557.5	1567.6
345.7	62.5°	394.4	540.4	694.8	825.7	929.8	1090.9	1153.0	1300.7	1319.2
221.5	65°	273.6	367.6	543.8	637.8	765.3	902.9	965.0	1082.5	1119.5
127.6	67.5°	181.3	261.8	424.6	510.2	636.1	730.1	809.0	904.6	944.9
80.6	70°	99.0	193.0	303.8	402.8	511.9	602.5	679.7	756.9	792.2
36.9	72.5°	67.1	129.2	211.5	318.9	412.9	501.8	570.6	627.7	629.4
21.8	75°	33.6	87.3	161.1	246.7	322.2	409.5	471.6	505.2	464.9
13.4	77.5°	20.1	63.8	130.9	198.0	261.8	330.6	365.9	384.3	318.9
10.1	80°	11.7	45.3	102.4	157.8	181.3	243.4	276.9	282.0	213.1
6.7	82.5°	8.4	33.6	80.6	115.8	110.8	171.2	208.1	201.4	135.9
5.0	85°	5.0	23.5	50.4	72.2	67.1	112.4	120.8	124.2	78.9
3.4	87.5°	3.4	13.4	26.9	38.6	31.9	48.7	48.7	58.7	38.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9069.7
8844.8
8881.8
8774.4
8626.7
8445.4
8232.3
7977.1
7636.4
7305.8
6891.3
6522.0
6085.7
5666.1
5202.9
4840.3
4388.9
3991.1
3596.7
3215.7
2853.2
2507.4
2160.0
1856.2
1582.7
1322.5
1111.1
939.9
778.7
614.3
434.7
307.1
199.7
125.9
72.2
33.6
0.0

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