

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: McGRAW-EDISON

Report Number: P942709

Luminaire Tested: **GALN-SB6D-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-830-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54803 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

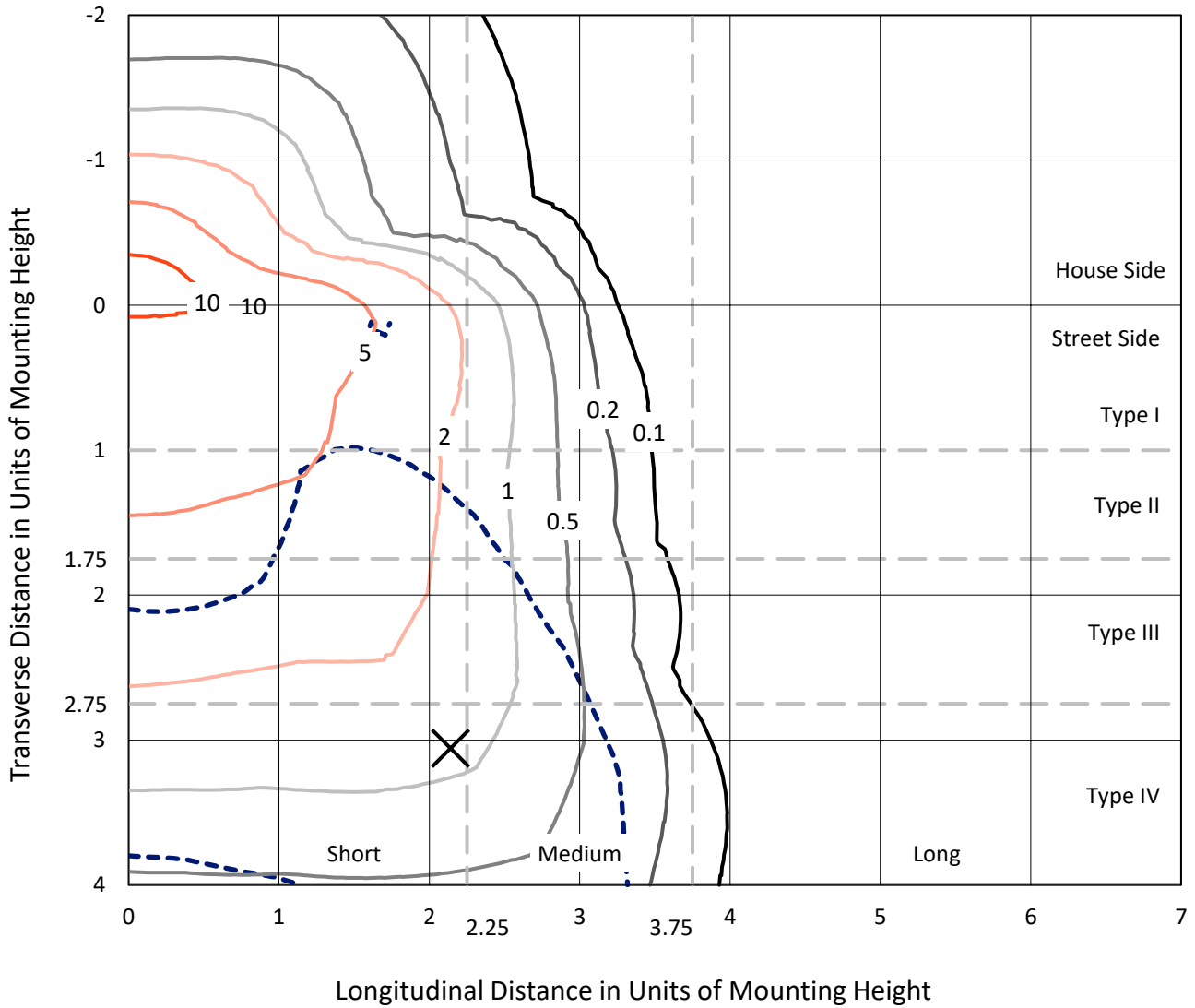
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P942709
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Iso-Footcandle Lines of Horizontal Illumination

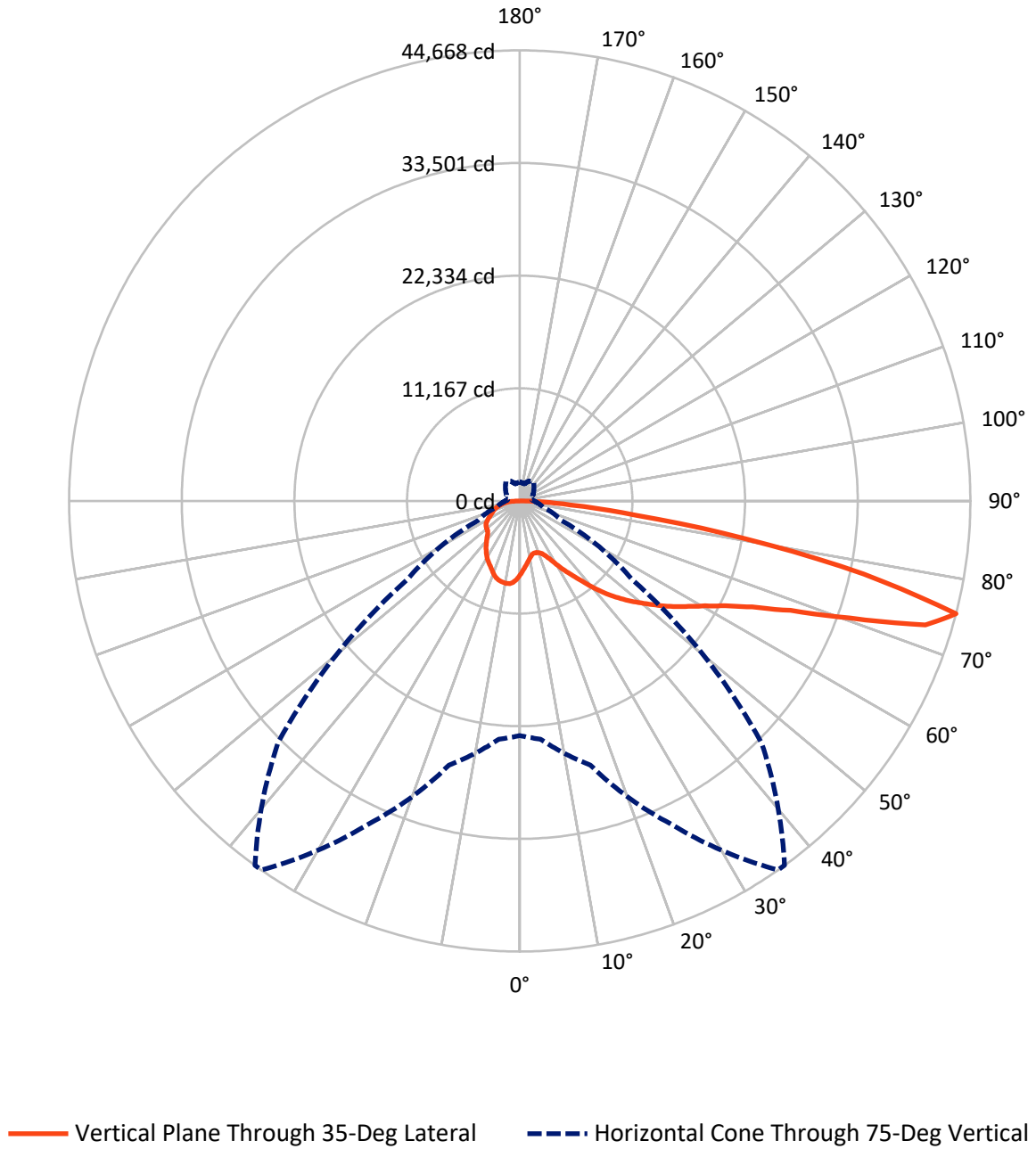
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P942709
CATALOG NUMBER: GALN-SB6D-830-U-T4FT

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13041.7	0.0	13041.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	41761.3	0.0	41761.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	54803.0	0.0	54803.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	691.4	1.3
10°-20°	1994.4	3.6
20°-30°	3349.1	6.1
30°-40°	5205.0	9.5
40°-50°	7725.6	14.1
50°-60°	10665.7	19.5
60°-70°	12939.9	23.6
70°-80°	10693.8	19.5
80°-90°	1538.1	2.8
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°	54803.0	100.0
0°-180°	54803.0	100.0

Coefficient of Utilization



REPORT NUMBER: P942709

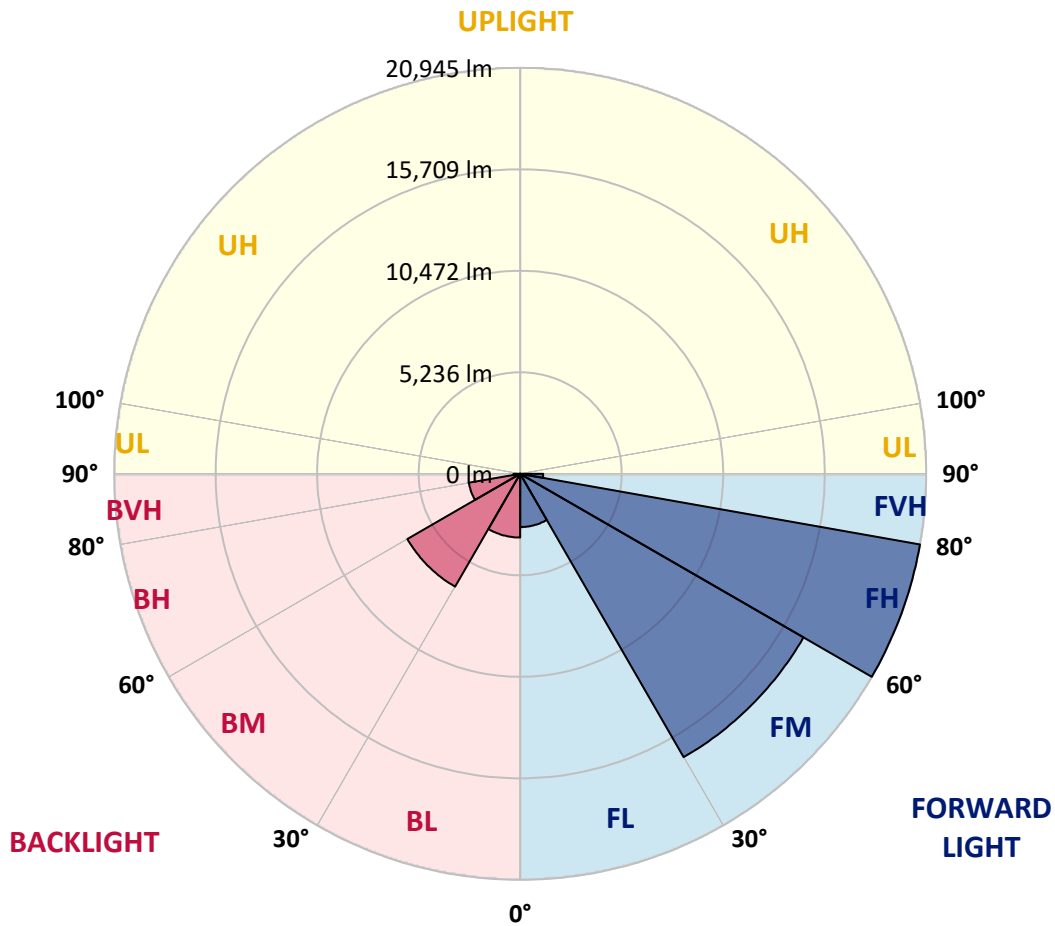
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2748.3	5.0			
FM (30°-60°)	16876.4	30.8			
FH (60°-80°)	20944.9	38.2			G5
FVH (80°-90°)	1191.8	2.2			G5
BL (0°-30°)	3286.7	6.0	B4/5000		
BM (30°-60°)	6719.9	12.3	B4/8500		
BH (60°-80°)	2688.8	4.9	B4/5000		G4/5000
BVH (80°-90°)	346.3	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



REPORT NUMBER: P942709

CATALOG NUMBER: GALN-SB6D-830-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9
2.5°	6734.0	6775.5	6793.3	6784.4	6828.9	6822.9	6885.1	6962.2	7068.8	7172.5
5°	6215.6	6260.0	6298.5	6334.1	6420.0	6446.7	6544.4	6692.6	6888.1	7086.6
7.5°	5732.7	5771.2	5830.4	5895.6	6040.8	6067.5	6230.4	6461.5	6734.0	7024.4
10°	5338.7	5377.2	5439.4	5513.4	5694.2	5726.8	5934.1	6242.3	6597.8	6965.1
12.5°	5169.8	5181.6	5217.2	5291.2	5448.3	5469.0	5697.1	6049.7	6464.4	6920.7
15°	5160.9	5184.6	5187.6	5226.1	5356.4	5365.3	5575.7	5925.2	6381.5	6911.8
17.5°	5249.8	5267.5	5240.9	5264.6	5374.2	5389.0	5554.9	5866.0	6354.8	6950.3
20°	5486.8	5501.6	5421.6	5389.0	5469.0	5480.9	5643.8	5904.5	6381.5	7030.3
22.5°	5990.4	5999.3	5803.8	5670.5	5676.4	5682.3	5824.5	6061.5	6485.2	7175.5
25°	6775.5	6769.6	6458.5	6200.8	6052.6	6020.1	6114.9	6316.3	6660.0	7368.0
27.5°	7693.9	7649.5	7338.4	6953.3	6630.4	6583.0	6562.2	6648.1	6908.8	7622.8
30°	8730.9	8689.4	8354.6	7851.0	7403.6	7326.6	7131.0	7086.6	7279.2	7969.5
32.5°	9868.5	9841.8	9441.9	8831.6	8233.1	8144.3	7815.4	7696.9	7848.0	8493.8
35°	10822.5	10798.8	10467.0	9838.9	9107.1	8997.5	8662.7	8529.4	8606.4	9166.4
37.5°	11684.6	11672.7	11388.3	10893.6	10138.1	10004.8	9628.5	9584.1	9569.3	10052.2
40°	12484.5	12454.9	12158.6	11897.9	11338.0	11216.5	10884.7	10846.2	10733.6	11142.4
42.5°	13370.3	13293.3	12863.7	12742.2	12591.2	12490.4	12291.9	12297.9	12049.0	12371.9
45°	14093.2	14048.8	13607.3	13536.2	13699.2	13657.7	13829.5	13874.0	13391.1	13660.7
47.5°	14869.4	14827.9	14454.6	14404.3	14845.7	14857.6	15464.9	15479.7	14700.5	14999.8
50°	15826.3	15767.1	15396.8	15459.0	15953.7	15998.2	17109.2	17008.4	15906.3	16359.6
52.5°	16457.4	16492.9	16412.9	16513.7	17189.1	17230.6	18726.8	18469.0	17100.3	17701.7
55°	16922.5	16993.6	17242.5	17473.6	18492.7	18534.2	20252.5	19858.5	18089.8	18946.0
57.5°	17521.0	17420.2	17885.4	18335.7	19731.1	19840.7	21736.8	21197.6	18966.7	20018.5
60°	18380.1	18309.0	18670.5	19337.1	21117.6	21292.4	23307.0	22403.4	19609.6	20868.7
62.5°	20122.1	19944.4	20000.7	20590.2	22865.5	23096.6	25078.6	23455.1	19929.6	21200.5
65°	22726.3	22421.1	22136.7	22545.6	25327.5	25555.6	27078.4	24281.7	19811.1	20557.7
67.5°	26005.9	25703.7	25354.1	25739.3	28953.7	29134.5	29546.3	24746.8	18877.8	18080.9
70°	28710.8	28598.2	29015.9	30601.0	34745.7	34751.6	32710.3	24361.7	16321.1	12819.3
72.5°	28352.3	28284.2	30485.4	35385.6	42045.6	41888.6	35705.6	21446.4	10994.3	5783.0
75°	23259.6	23701.0	27111.0	35299.7	44667.5	44646.8	33871.7	13634.0	4547.6	2396.8
77.5°	12472.7	13171.8	17601.0	26062.2	34870.1	35394.5	23813.6	4769.8	1952.4	1534.6
80°	4067.7	4678.0	7015.5	13269.6	22658.2	22560.4	10206.2	1872.4	1336.1	1087.3
82.5°	1727.2	1798.3	3134.5	6266.0	11628.3	11447.6	3250.0	1075.4	939.2	743.6
85°	675.5	755.5	1383.5	2897.4	5036.5	4926.8	1173.2	533.3	601.4	485.9
87.5°	222.2	269.6	494.8	992.5	1567.2	1510.9	287.4	183.7	260.7	222.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P942709
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7302.9	0°	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9
7323.6	2.5°	7365.1	7412.5	7468.8	7551.7	7622.8	7682.1	7744.3	7782.8	7797.6	7842.1
7335.5	5°	7418.4	7522.1	7661.3	7797.6	7930.9	8010.9	8082.0	8117.6	8150.2	8173.9
7368.0	7.5°	7507.3	7640.6	7859.8	8037.6	8150.2	8215.4	8262.8	8250.9	8262.8	8268.7
7403.6	10°	7584.3	7771.0	8031.7	8200.5	8286.5	8289.4	8277.6	8236.1	8215.4	8218.3
7456.9	12.5°	7676.2	7883.5	8165.0	8307.2	8330.9	8265.7	8215.4	8144.3	8117.6	8105.7
7536.9	15°	7800.6	8037.6	8310.2	8363.5	8304.2	8221.3	8135.4	8019.8	7960.6	7913.2
7673.2	17.5°	7951.7	8212.4	8422.7	8384.2	8256.8	8120.6	7981.3	7806.5	7685.0	7634.7
7859.8	20°	8162.0	8396.1	8508.7	8339.8	8147.2	7939.8	7702.8	7489.5	7376.9	7326.6
8096.9	22.5°	8416.8	8642.0	8591.6	8262.8	7990.2	7658.4	7362.1	7205.1	7148.8	7113.3
8402.0	25°	8722.0	8914.5	8650.9	8150.2	7732.5	7285.1	7057.0	7006.6	6979.9	6953.3
8775.3	27.5°	9119.0	9222.7	8695.3	7984.3	7329.5	6888.1	6805.1	6814.0	6805.1	6760.7
9293.8	30°	9643.3	9622.6	8736.8	7714.7	6867.4	6529.6	6535.6	6574.1	6580.0	6550.4
10016.6	32.5°	10333.6	10123.3	8757.5	7365.1	6425.9	6215.6	6221.5	6263.0	6292.6	6242.3
10961.7	35°	11169.1	10706.9	8724.9	6926.6	6085.2	5916.4	5871.9	5883.8	5892.7	5845.3
12108.2	37.5°	12143.8	11361.7	8579.8	6440.7	5803.8	5623.1	5528.3	5448.3	5400.9	5356.4
13405.9	40°	13213.3	12075.7	8313.1	5966.7	5489.7	5312.0	5169.8	5018.7	4858.7	4799.5
14780.5	42.5°	14333.2	12810.4	7990.2	5513.4	5128.3	4983.1	4832.0	4612.8	4372.8	4251.4
16208.5	45°	15494.5	13562.9	7673.2	5066.1	4758.0	4695.8	4521.0	4257.3	3996.6	3842.5
17639.5	47.5°	16632.2	14273.9	7208.1	4615.8	4411.3	4479.5	4343.2	4100.3	3809.9	3567.0
19058.6	50°	17719.5	14940.5	6446.7	4159.5	4129.9	4414.3	4284.0	3934.4	3602.6	3291.5
20451.0	52.5°	18797.9	15479.7	5472.0	3744.8	3978.8	4396.5	4206.9	3821.8	3415.9	3090.0
21760.5	55°	19713.3	15758.2	4532.8	3389.2	3759.6	4245.4	4115.1	3688.5	3152.2	2805.6
22658.2	57.5°	20234.7	15533.0	3750.7	3039.7	3457.4	3996.6	3958.1	3404.1	2838.2	2571.6
22833.0	60°	20009.6	14620.6	3110.8	2734.5	3170.0	3727.0	3685.5	3122.6	2598.2	2346.4
21896.8	62.5°	18768.2	12881.5	2604.1	2467.9	2909.3	3451.5	3412.9	2906.3	2414.5	2171.6
19411.1	65°	16267.8	10478.8	2210.1	2245.7	2645.6	3119.6	3175.9	2725.6	2269.4	2032.4
15017.5	67.5°	12407.5	7590.2	1902.0	2053.1	2387.9	2793.8	2956.7	2595.3	2147.9	1922.7
8689.4	70°	7071.8	4310.6	1641.3	1866.5	2159.8	2491.6	2787.8	2491.6	2017.5	1830.9
3255.9	72.5°	2681.2	1979.0	1419.1	1679.8	1940.5	2236.8	2601.2	2328.6	1866.5	1727.2
1682.8	75°	1430.9	1205.8	1193.9	1460.6	1688.7	1987.9	2367.1	2168.6	1753.9	1825.0
1164.3	77.5°	974.7	853.2	998.4	1250.2	1413.2	1712.4	2118.3	1925.7	1519.8	1513.9
805.8	80°	675.5	604.4	811.8	1007.3	1093.2	1439.8	1848.7	1653.1	1238.4	1155.4
497.7	82.5°	405.9	394.0	607.3	752.5	773.2	1111.0	1531.7	1386.5	1013.2	882.9
296.3	85°	222.2	234.0	388.1	441.4	450.3	776.2	1199.9	1072.5	779.2	654.7
106.7	87.5°	62.2	80.0	142.2	174.8	216.3	402.9	714.0	637.0	391.1	272.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
7302.9
7839.1
8179.8
8277.6
8224.2
8099.8
7928.0
7637.6
7320.6
7119.2
6953.3
6769.6
6565.2
6266.0
5877.8
5386.1
4826.1
4266.2
3830.7
3540.3
3264.8
3054.5
2776.0
2536.0
2310.8
2133.1
1993.8
1887.2
1807.2
1703.5
1884.2
1395.4
1105.1
888.8
660.7
272.6
0.0

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