

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: P944579

Luminaire Tested: **GALN-SB9C-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944579
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-SB9C-830-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60581 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

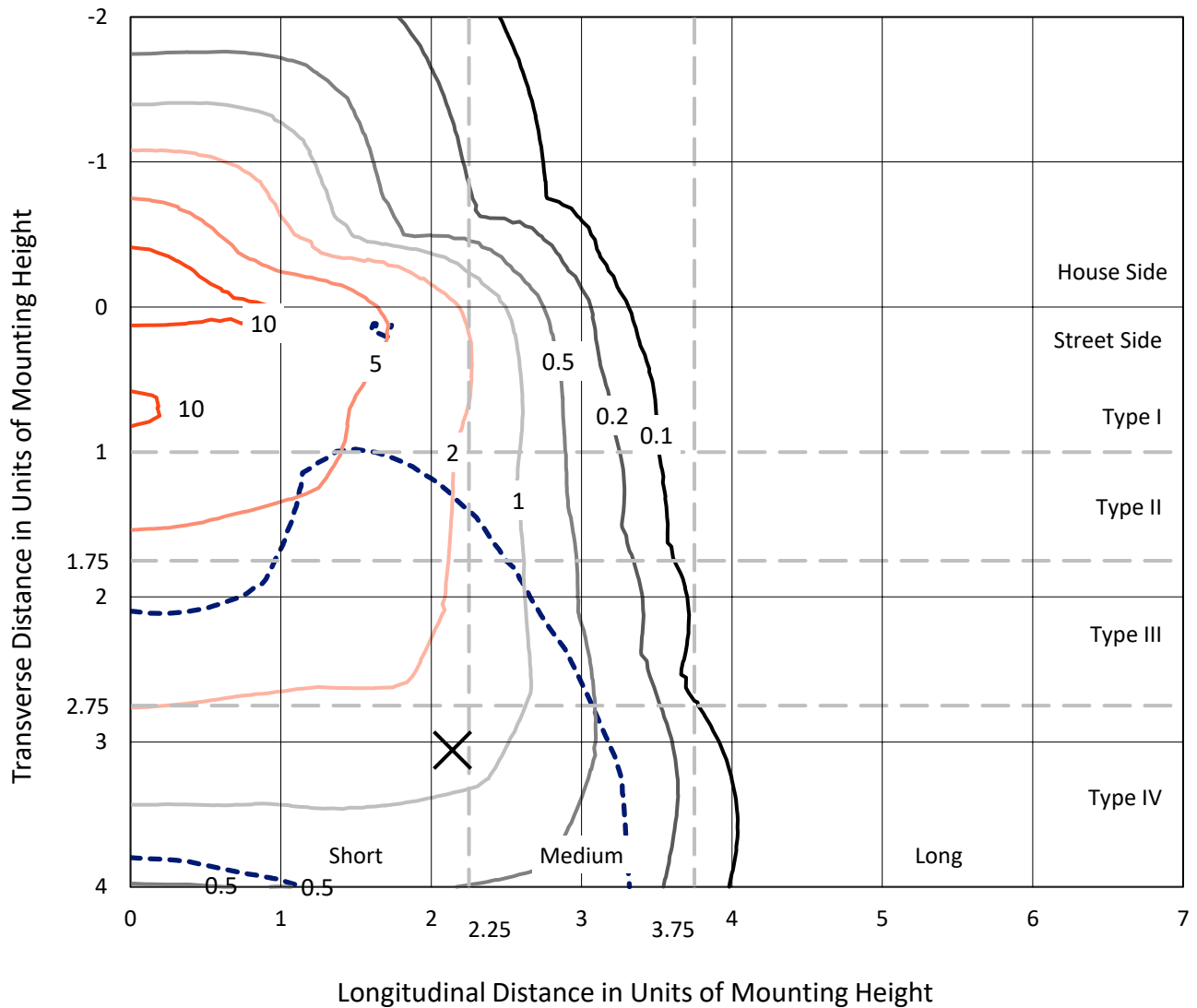
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944579
 CATALOG NUMBER: GALN-SB9C-830-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

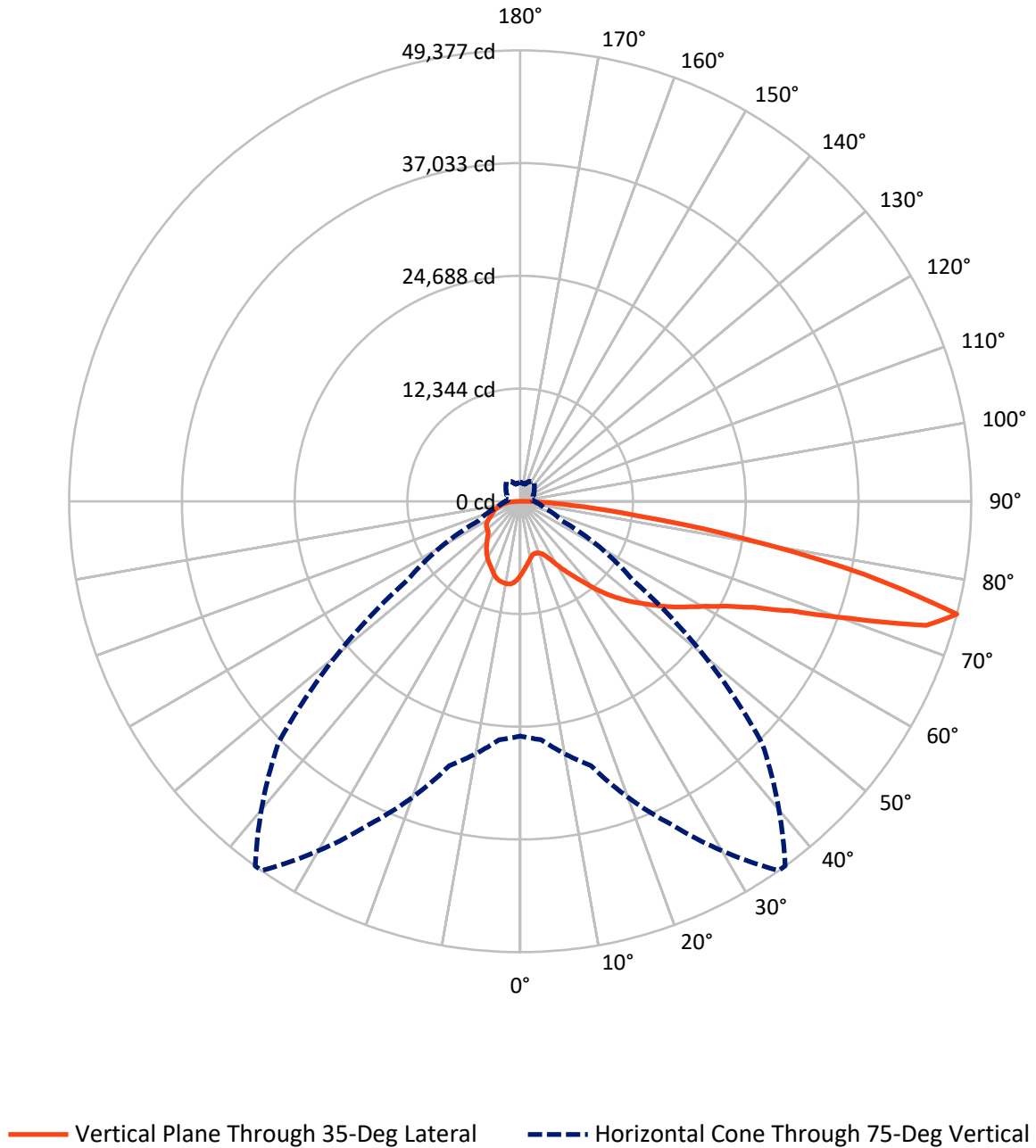
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P944579
CATALOG NUMBER: GALN-SB9C-830-U-T4FT

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14416.7	0.0	14416.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	46164.2	0.0	46164.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	60581.0	0.0	60581.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	764.3	1.3
10°-20°	2204.7	3.6
20°-30°	3702.2	6.1
30°-40°	5753.8	9.5
40°-50°	8540.1	14.1
50°-60°	11790.2	19.5
60°-70°	14304.2	23.6
70°-80°	11821.3	19.5
80°-90°	1700.3	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°	60581.0	100.0
0°-180°	60581.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944579

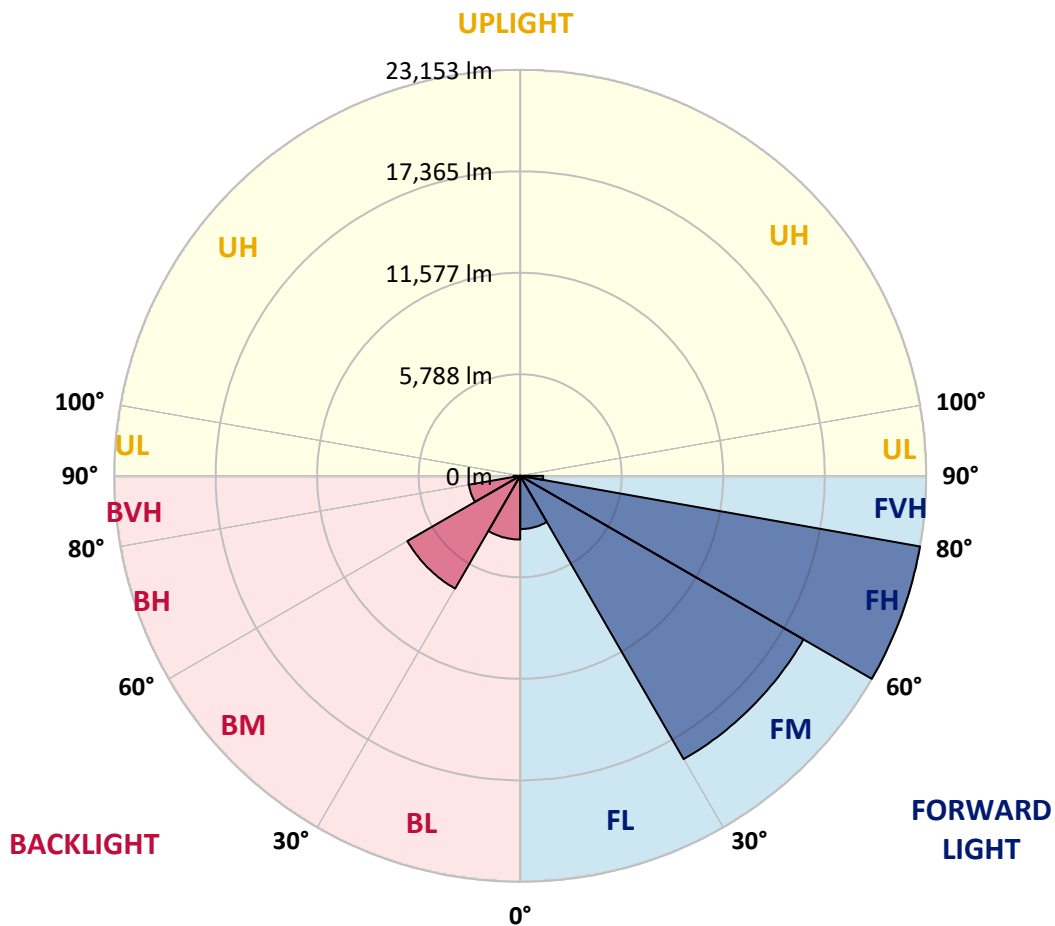
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3038.0	5.0			
FM (30°-60°)	18655.7	30.8			
FH (60°-80°)	23153.2	38.2			G5
FVH (80°-90°)	1317.4	2.2			G5
BL (0°-30°)	3633.2	6.0	B4/5000		
BM (30°-60°)	7428.4	12.3	B4/8500		
BH (60°-80°)	2972.3	4.9	B4/5000		G4/5000
BVH (80°-90°)	382.9	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: P944579

CATALOG NUMBER: GALN-SB9C-830-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	8072.8	8072.8	8072.8	8072.8	8072.8	8072.8	8072.8	8072.8	8072.8	8072.8
2.5°	7444.0	7489.9	7509.5	7499.7	7548.8	7542.3	7611.1	7696.2	7814.1	7928.7
5°	6870.9	6920.0	6962.6	7001.9	7096.9	7126.4	7234.4	7398.2	7614.3	7833.8
7.5°	6337.1	6379.7	6445.2	6517.2	6677.7	6707.2	6887.3	7142.7	7444.0	7765.0
10°	5901.5	5944.1	6012.9	6094.7	6294.5	6330.5	6559.8	6900.4	7293.4	7699.5
12.5°	5714.8	5727.9	5767.2	5849.1	6022.7	6045.6	6297.8	6687.5	7146.0	7650.4
15°	5705.0	5731.2	5734.5	5777.1	5921.2	5931.0	6163.5	6550.0	7054.3	7640.5
17.5°	5803.3	5822.9	5793.4	5819.6	5940.8	5957.2	6140.6	6484.5	7024.8	7683.1
20°	6065.3	6081.6	5993.2	5957.2	6045.6	6058.7	6238.8	6527.0	7054.3	7771.5
22.5°	6622.0	6631.8	6415.7	6268.3	6274.9	6281.4	6438.6	6700.6	7168.9	7932.0
25°	7489.9	7483.3	7139.5	6854.5	6690.8	6654.8	6759.6	6982.3	7362.2	8144.9
27.5°	8505.1	8456.0	8112.1	7686.4	7329.4	7277.0	7254.1	7349.1	7637.3	8426.5
30°	9651.4	9605.5	9235.4	8678.7	8184.2	8099.0	7882.9	7833.8	8046.6	8809.7
32.5°	10909.0	10879.5	10437.4	9762.7	9101.2	9002.9	8639.4	8508.4	8675.4	9389.4
35°	11963.5	11937.3	11570.5	10876.2	10067.3	9946.1	9576.0	9428.7	9513.8	10132.8
37.5°	12916.5	12903.4	12589.0	12042.1	11207.0	11059.6	10643.7	10594.6	10578.2	11112.0
40°	13800.8	13768.0	13440.5	13152.3	12533.4	12399.1	12032.3	11989.7	11865.3	12317.2
42.5°	14780.0	14694.8	14220.0	14085.7	13918.7	13807.3	13587.9	13594.4	13319.3	13676.3
45°	15579.1	15530.0	15042.0	14963.4	15143.5	15097.7	15287.6	15336.7	14802.9	15100.9
47.5°	16437.1	16391.3	15978.6	15923.0	16410.9	16424.0	17095.4	17111.8	16250.5	16581.2
50°	17494.9	17429.4	17020.1	17088.9	17635.8	17684.9	18913.0	18801.7	17583.4	18084.4
52.5°	18192.5	18231.8	18143.4	18254.7	19001.4	19047.3	20701.2	20416.2	18903.2	19568.0
55°	18706.7	18785.3	19060.4	19315.8	20442.4	20488.3	22387.8	21952.2	19997.0	20943.5
57.5°	19368.2	19256.9	19771.1	20268.9	21811.4	21932.5	24028.5	23432.5	20966.4	22129.0
60°	20318.0	20239.4	20638.9	21375.8	23344.1	23537.3	25764.3	24765.4	21677.1	23069.0
62.5°	22243.7	22047.2	22109.4	22761.1	25276.3	25531.8	27722.7	25928.0	22030.8	23435.8
65°	25122.4	24785.1	24470.7	24922.6	27997.8	28250.0	29933.3	26841.7	21899.8	22725.1
67.5°	28747.8	28413.7	28027.3	28453.0	32006.4	32206.2	32661.4	27355.9	20868.2	19987.2
70°	31737.8	31613.4	32075.2	33827.3	38409.0	38415.5	36159.1	26930.2	18041.9	14170.8
72.5°	31341.6	31266.2	33699.6	39116.4	46478.5	46305.0	39470.1	23707.6	12153.5	6392.8
75°	25711.9	26199.8	29969.4	39021.4	49376.9	49354.0	37442.9	15071.5	5027.1	2649.5
77.5°	13787.7	14560.6	19456.7	28810.0	38546.5	39126.2	26324.3	5272.7	2158.2	1696.4
80°	4496.5	5171.2	7755.2	14668.6	25047.1	24939.0	11282.3	2069.8	1477.0	1201.9
82.5°	1909.3	1987.9	3464.9	6926.6	12854.3	12654.5	3592.7	1188.8	1038.2	822.0
85°	746.7	835.1	1529.4	3202.9	5567.5	5446.3	1296.9	589.5	664.8	537.1
87.5°	245.6	298.0	546.9	1097.1	1732.5	1670.2	317.7	203.0	288.2	245.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944579
 CATALOG NUMBER: GALN-SB9C-830-U-T4FT

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8072.8	0°	8072.8	8072.8	8072.8	8072.8	8072.8	8072.8	8072.8	8072.8	8072.8	8072.8
8095.8	2.5°	8141.6	8194.0	8256.2	8347.9	8426.5	8492.0	8560.8	8603.4	8619.7	8668.9
8108.9	5°	8200.6	8315.2	8469.1	8619.7	8767.1	8855.5	8934.1	8973.4	9009.5	9035.7
8144.9	7.5°	8298.8	8446.2	8688.5	8885.0	9009.5	9081.5	9133.9	9120.8	9133.9	9140.5
8184.2	10°	8384.0	8590.3	8878.5	9065.1	9160.1	9163.4	9150.3	9104.4	9081.5	9084.8
8243.1	12.5°	8485.5	8714.7	9025.8	9183.0	9209.2	9137.2	9081.5	9002.9	8973.4	8960.3
8331.6	15°	8623.0	8885.0	9186.3	9245.3	9179.8	9088.1	8993.1	8865.4	8799.9	8747.5
8482.2	17.5°	8790.0	9078.2	9310.8	9268.2	9127.4	8976.7	8822.8	8629.6	8495.3	8439.6
8688.5	20°	9022.6	9281.3	9405.7	9219.1	9006.2	8776.9	8515.0	8279.2	8154.7	8099.0
8950.5	22.5°	9304.2	9553.1	9497.4	9133.9	8832.6	8465.8	8138.3	7964.8	7902.5	7863.2
9287.8	25°	9641.5	9854.4	9562.9	9009.5	8547.7	8053.2	7801.0	7745.3	7715.9	7686.4
9700.5	27.5°	10080.4	10195.0	9612.1	8826.1	8102.3	7614.3	7522.6	7532.5	7522.6	7473.5
10273.6	30°	10660.1	10637.1	9657.9	8528.1	7591.4	7218.1	7224.6	7267.2	7273.7	7241.0
11072.7	32.5°	11423.1	11190.6	9680.8	8141.6	7103.4	6870.9	6877.5	6923.3	6956.1	6900.4
12117.4	35°	12346.7	11835.8	9644.8	7656.9	6726.8	6540.1	6491.0	6504.1	6513.9	6461.5
13384.8	37.5°	13424.1	12559.6	9484.3	7119.8	6415.7	6215.9	6111.1	6022.7	5970.3	5921.2
14819.3	40°	14606.4	13348.8	9189.6	6595.8	6068.5	5872.0	5714.8	5547.8	5371.0	5305.5
16338.9	42.5°	15844.4	14161.0	8832.6	6094.7	5669.0	5508.5	5341.5	5099.1	4833.9	4699.6
17917.4	45°	17128.2	14992.9	8482.2	5600.2	5259.6	5190.8	4997.6	4706.1	4417.9	4247.7
19499.2	47.5°	18385.7	15778.9	7968.0	5102.4	4876.4	4951.8	4801.1	4532.6	4211.6	3943.1
21068.0	50°	19587.7	16515.7	7126.4	4598.1	4565.3	4879.7	4735.6	4349.2	3982.4	3638.5
22607.2	52.5°	20779.8	17111.8	6048.9	4139.6	4398.3	4860.1	4650.5	4224.7	3776.1	3415.8
24054.7	55°	21791.7	17419.6	5010.7	3746.6	4156.0	4693.0	4548.9	4077.4	3484.6	3101.4
25047.1	57.5°	22368.1	17170.7	4146.1	3360.1	3821.9	4417.9	4375.4	3763.0	3137.4	2842.7
25240.3	60°	22119.2	16162.0	3438.7	3022.8	3504.2	4119.9	4074.1	3451.8	2872.2	2593.8
24205.4	62.5°	20747.0	14239.6	2878.7	2728.1	3216.0	3815.4	3772.8	3212.8	2669.1	2400.6
21457.7	65°	17982.9	11583.6	2443.1	2482.4	2924.6	3448.6	3510.8	3013.0	2508.6	2246.6
16600.9	67.5°	13715.6	8390.5	2102.5	2269.6	2639.6	3088.3	3268.4	2868.9	2374.4	2125.5
9605.5	70°	7817.4	4765.1	1814.3	2063.2	2387.5	2754.3	3081.8	2754.3	2230.3	2023.9
3599.2	72.5°	2963.9	2187.7	1568.7	1856.9	2145.1	2472.6	2875.4	2574.1	2063.2	1909.3
1860.2	75°	1581.8	1332.9	1319.8	1614.6	1866.7	2197.5	2616.7	2397.3	1938.8	2017.4
1287.1	77.5°	1077.5	943.2	1103.7	1382.0	1562.2	1892.9	2341.6	2128.7	1680.1	1673.5
890.8	80°	746.7	668.1	897.3	1113.5	1208.5	1591.6	2043.6	1827.4	1368.9	1277.2
550.2	82.5°	448.7	435.6	671.4	831.8	854.8	1228.1	1693.2	1532.7	1120.0	975.9
327.5	85°	245.6	258.7	429.0	488.0	497.8	858.0	1326.4	1185.5	861.3	723.8
117.9	87.5°	68.8	88.4	157.2	193.2	239.1	445.4	789.3	704.1	432.3	301.3
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

180°
8072.8
8665.6
9042.2
9150.3
9091.3
8953.8
8763.8
8442.9
8092.5
7869.8
7686.4
7483.3
7257.4
6926.6
6497.6
5953.9
5334.9
4716.0
4234.6
3913.6
3609.0
3376.5
3068.7
2803.4
2554.5
2358.0
2204.1
2086.2
1997.7
1883.1
2082.9
1542.5
1221.6
982.5
730.3
301.3
0.0

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