

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: P940629

Luminaire Tested: **GALN-SB3D-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940629
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-SB3D-740-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31926 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

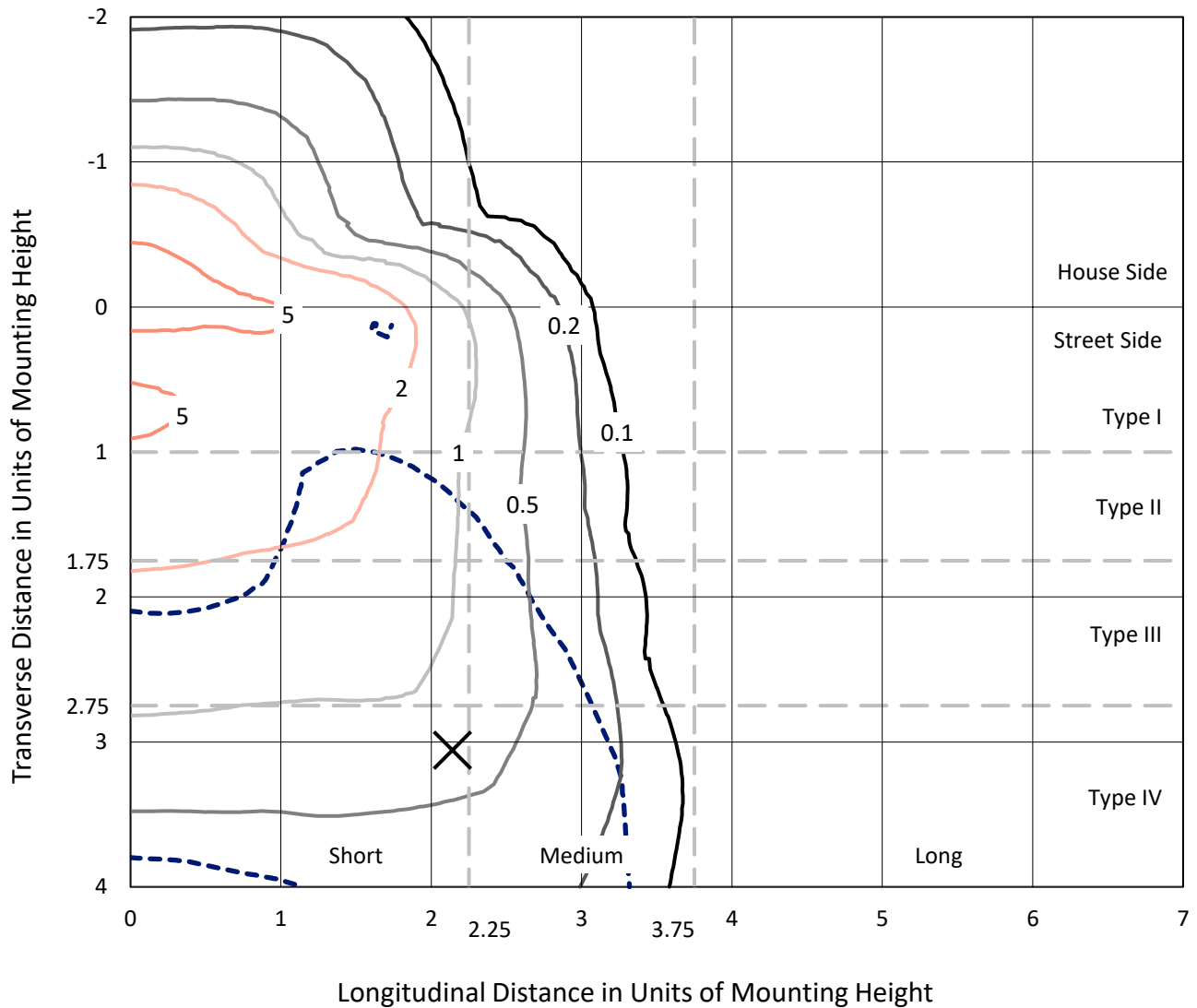
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P940629
 CATALOG NUMBER: GALN-SB3D-740-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

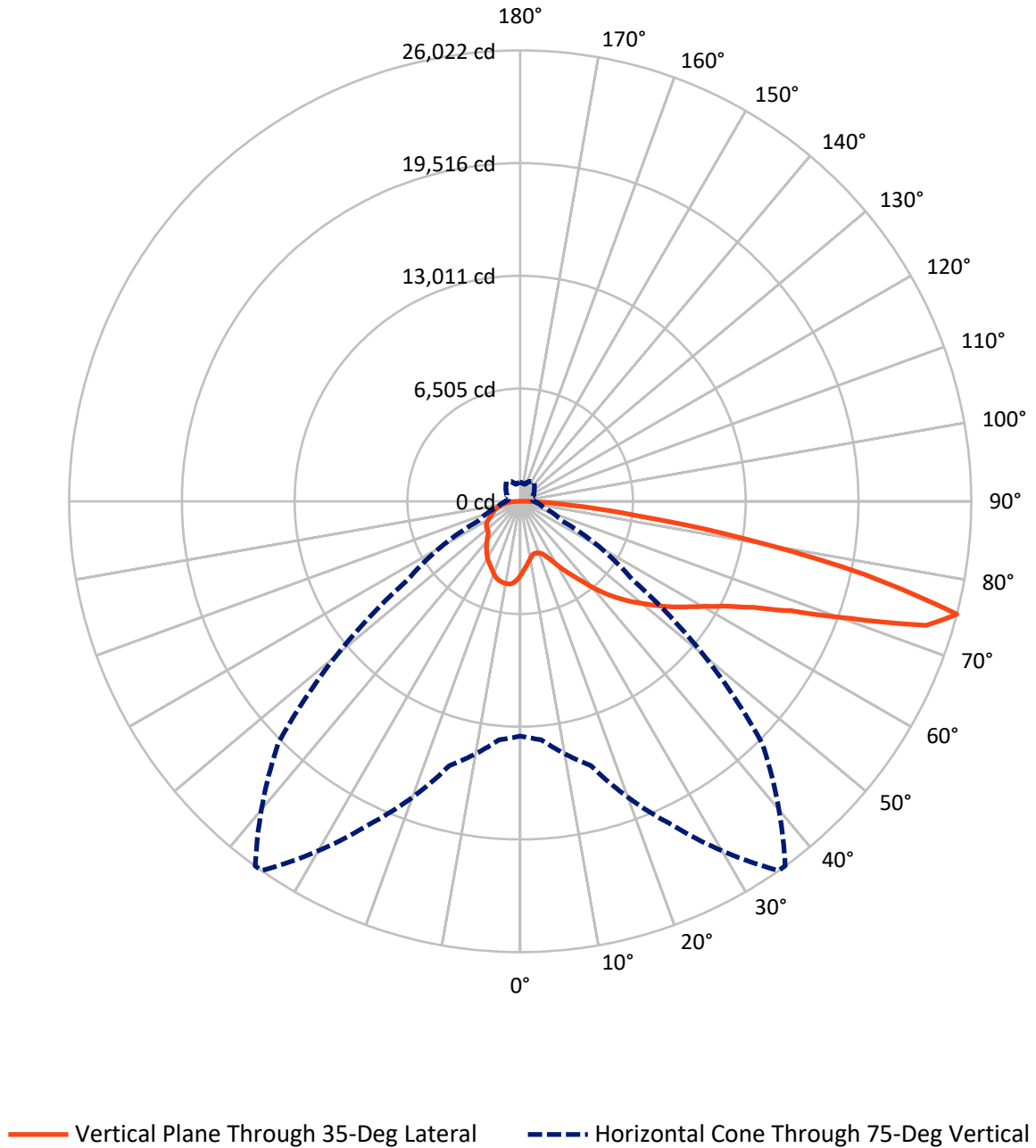
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P940629
CATALOG NUMBER: GALN-SB3D-740-U-T4FT

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7597.6	0.0	7597.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	24328.4	0.0	24328.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	31926.0	0.0	31926.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.8	1.3
10°-20°	1161.9	3.6
20°-30°	1951.1	6.1
30°-40°	3032.2	9.5
40°-50°	4500.6	14.1
50°-60°	6213.4	19.5
60°-70°	7538.2	23.6
70°-80°	6229.8	19.5
80°-90°	896.0	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°	31926.0	100.0
0°-180°	31926.0	100.0



REPORT NUMBER: P940629

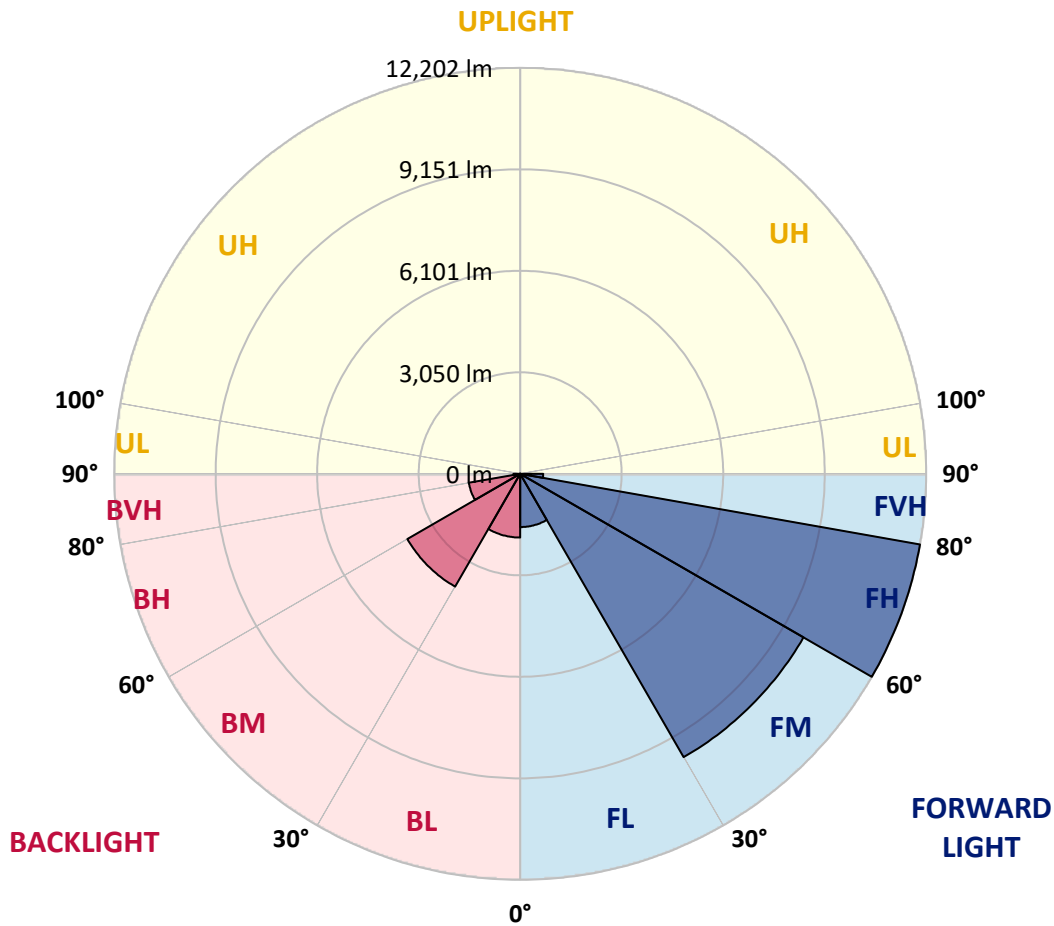
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1601.0	5.0			
FM (30°-60°)	9831.5	30.8			
FH (60°-80°)	12201.6	38.2			G5
FVH (80°-90°)	694.3	2.2			G4/750
BL (0°-30°)	1914.7	6.0	B3/2500		
BM (30°-60°)	3914.7	12.3	B3/5000		
BH (60°-80°)	1566.4	4.9	B3/2500		G3/2500
BVH (80°-90°)	201.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



REPORT NUMBER: P940629

CATALOG NUMBER: GALN-SB3D-740-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	4254.4	4254.4	4254.4	4254.4	4254.4	4254.4	4254.4	4254.4	4254.4	4254.4
2.5°	3923.0	3947.1	3957.5	3952.3	3978.2	3974.8	4011.0	4055.9	4118.0	4178.4
5°	3620.9	3646.8	3669.3	3690.0	3740.0	3755.6	3812.5	3898.8	4012.7	4128.4
7.5°	3339.6	3362.1	3396.6	3434.6	3519.1	3534.7	3629.6	3764.2	3923.0	4092.1
10°	3110.1	3132.5	3168.8	3211.9	3317.2	3336.2	3457.0	3636.5	3843.6	4057.6
12.5°	3011.7	3018.6	3039.3	3082.5	3173.9	3186.0	3318.9	3524.3	3765.9	4031.7
15°	3006.5	3020.3	3022.1	3044.5	3120.4	3125.6	3248.2	3451.8	3717.6	4026.5
17.5°	3058.3	3068.7	3053.1	3066.9	3130.8	3139.4	3236.1	3417.3	3702.1	4049.0
20°	3196.4	3205.0	3158.4	3139.4	3186.0	3192.9	3287.8	3439.7	3717.6	4095.6
22.5°	3489.8	3495.0	3381.0	3303.4	3306.8	3310.3	3393.1	3531.2	3778.0	4180.1
25°	3947.1	3943.7	3762.5	3612.3	3526.0	3507.0	3562.3	3679.6	3879.8	4292.3
27.5°	4482.2	4456.3	4275.1	4050.7	3862.6	3835.0	3822.9	3872.9	4024.8	4440.8
30°	5086.2	5062.1	4867.1	4573.6	4313.0	4268.2	4154.3	4128.4	4240.5	4642.7
32.5°	5749.0	5733.5	5500.5	5144.9	4796.3	4744.5	4552.9	4483.9	4571.9	4948.2
35°	6304.7	6290.9	6097.6	5731.7	5305.4	5241.6	5046.5	4968.9	5013.8	5339.9
37.5°	6807.0	6800.1	6634.4	6346.2	5906.0	5828.4	5609.2	5583.3	5574.7	5856.0
40°	7273.0	7255.7	7083.1	6931.2	6605.0	6534.3	6341.0	6318.5	6253.0	6491.1
42.5°	7789.0	7744.1	7493.9	7423.1	7335.1	7276.4	7160.8	7164.2	7019.3	7207.4
45°	8210.1	8184.2	7927.1	7885.7	7980.6	7956.4	8056.5	8082.4	7801.1	7958.1
47.5°	8662.3	8638.2	8420.7	8391.3	8648.5	8655.4	9009.2	9017.9	8563.9	8738.3
50°	9219.8	9185.3	8969.5	9005.8	9294.0	9319.9	9967.1	9908.4	9266.4	9530.4
52.5°	9587.4	9608.1	9561.5	9620.2	10013.7	10037.9	10909.4	10759.3	9961.9	10312.3
55°	9858.4	9899.8	10044.8	10179.4	10773.1	10797.3	11798.3	11568.7	10538.4	11037.2
57.5°	10207.0	10148.3	10419.3	10681.6	11494.5	11558.4	12663.0	12348.8	11049.2	11661.9
60°	10707.5	10666.1	10876.7	11265.0	12302.2	12404.1	13577.7	13051.3	11423.8	12157.3
62.5°	11722.3	11618.8	11651.6	11995.0	13320.5	13455.2	14609.8	13664.0	11610.2	12350.6
65°	13239.4	13061.6	12896.0	13134.1	14754.8	14887.7	15774.8	14145.5	11541.1	11976.1
67.5°	15150.0	14974.0	14770.3	14994.7	16867.3	16972.5	17212.4	14416.5	10997.5	10533.2
70°	16725.7	16660.2	16903.5	17826.9	20241.4	20244.9	19055.7	14192.1	9508.0	7468.0
72.5°	16516.9	16477.2	17759.6	20614.2	24494.0	24402.6	20800.6	12493.8	6404.8	3369.0
75°	13550.1	13807.2	15793.8	20564.2	26021.5	26009.4	19732.3	7942.6	2649.3	1396.3
77.5°	7266.1	7673.4	10253.6	15182.8	20313.9	20619.4	13872.8	2778.7	1137.4	894.0
80°	2369.7	2725.2	4086.9	7730.3	13199.7	13142.8	5945.7	1090.8	778.4	633.4
82.5°	1006.2	1047.6	1826.0	3650.3	6774.2	6668.9	1893.3	626.5	547.1	433.2
85°	393.5	440.1	806.0	1687.9	2934.0	2870.2	683.5	310.7	350.4	283.0
87.5°	129.4	157.1	288.2	578.2	913.0	880.2	167.4	107.0	151.9	129.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940629
 CATALOG NUMBER: GALN-SB3D-740-U-T4FT

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4254.4	0°	4254.4	4254.4	4254.4	4254.4	4254.4	4254.4	4254.4	4254.4	4254.4	4254.4
4266.4	2.5°	4290.6	4318.2	4351.0	4399.3	4440.8	4475.3	4511.5	4534.0	4542.6	4568.5
4273.3	5°	4321.7	4382.1	4463.2	4542.6	4620.2	4666.8	4708.3	4729.0	4748.0	4761.8
4292.3	7.5°	4373.4	4451.1	4578.8	4682.4	4748.0	4785.9	4813.5	4806.6	4813.5	4817.0
4313.0	10°	4418.3	4527.0	4678.9	4777.3	4827.4	4829.1	4822.2	4798.0	4785.9	4787.7
4344.1	12.5°	4471.8	4592.6	4756.6	4839.4	4853.2	4815.3	4785.9	4744.5	4729.0	4722.1
4390.7	15°	4544.3	4682.4	4841.2	4872.2	4837.7	4789.4	4739.3	4672.0	4637.5	4609.9
4470.1	17.5°	4632.3	4784.2	4906.7	4884.3	4810.1	4730.7	4649.6	4547.8	4477.0	4447.7
4578.8	20°	4754.9	4891.2	4956.8	4858.4	4746.2	4625.4	4487.4	4363.1	4297.5	4268.2
4716.9	22.5°	4903.3	5034.5	5005.1	4813.5	4654.8	4461.5	4288.9	4197.4	4164.6	4143.9
4894.7	25°	5081.1	5193.2	5039.6	4748.0	4504.6	4244.0	4111.1	4081.8	4066.2	4050.7
5112.1	27.5°	5312.3	5372.7	5065.5	4651.3	4269.9	4012.7	3964.4	3969.6	3964.4	3938.5
5414.2	30°	5617.8	5605.7	5089.7	4494.3	4000.6	3803.9	3807.3	3829.8	3833.2	3816.0
5835.3	32.5°	6020.0	5897.4	5101.8	4290.6	3743.5	3620.9	3624.4	3648.6	3665.8	3636.5
6385.8	35°	6506.7	6237.4	5082.8	4035.2	3545.0	3446.6	3420.7	3427.6	3432.8	3405.2
7053.8	37.5°	7074.5	6618.8	4998.2	3752.1	3381.0	3275.8	3220.5	3173.9	3146.3	3120.4
7809.7	40°	7697.5	7034.8	4842.9	3476.0	3198.1	3094.5	3011.7	2923.7	2830.5	2796.0
8610.5	42.5°	8349.9	7462.8	4654.8	3211.9	2987.5	2903.0	2815.0	2687.2	2547.4	2476.7
9442.4	45°	9026.5	7901.2	4470.1	2951.3	2771.8	2735.6	2633.7	2480.1	2328.2	2238.5
10276.0	47.5°	9689.2	8315.4	4199.1	2689.0	2569.9	2609.6	2530.2	2388.7	2219.5	2078.0
11102.7	50°	10322.6	8703.7	3755.6	2423.2	2405.9	2571.6	2495.7	2292.0	2098.7	1917.5
11913.9	52.5°	10950.9	9017.9	3187.7	2181.5	2317.9	2561.2	2450.8	2226.4	1990.0	1800.1
12676.8	55°	11484.2	9180.1	2640.6	1974.4	2190.2	2473.2	2397.3	2148.8	1836.4	1634.4
13199.7	57.5°	11787.9	9048.9	2185.0	1770.8	2014.1	2328.2	2305.8	1983.1	1653.4	1498.1
13301.5	60°	11656.8	8517.3	1812.2	1593.0	1846.7	2171.2	2147.0	1819.1	1513.6	1366.9
12756.2	62.5°	10933.6	7504.2	1517.1	1437.7	1694.8	2010.7	1988.2	1693.1	1406.6	1265.1
11308.1	65°	9476.9	6104.5	1287.5	1308.2	1541.2	1817.4	1850.2	1587.8	1322.0	1184.0
8748.6	67.5°	7228.1	4421.8	1108.0	1196.1	1391.1	1627.5	1722.5	1511.9	1251.3	1120.1
5062.1	70°	4119.7	2511.2	956.2	1087.3	1258.2	1451.5	1624.1	1451.5	1175.3	1066.6
1896.8	72.5°	1561.9	1152.9	826.7	978.6	1130.5	1303.1	1515.3	1356.6	1087.3	1006.2
980.3	75°	833.6	702.4	695.5	850.9	983.8	1158.1	1379.0	1263.4	1021.7	1063.2
678.3	77.5°	567.8	497.1	581.6	728.3	823.3	997.6	1234.0	1121.8	885.4	881.9
469.4	80°	393.5	352.1	472.9	586.8	636.9	838.8	1077.0	963.1	721.4	673.1
290.0	82.5°	236.4	229.5	353.8	438.4	450.5	647.2	892.3	807.7	590.3	514.3
172.6	85°	129.4	136.3	226.1	257.2	262.3	452.2	699.0	624.8	453.9	381.4
62.1	87.5°	36.2	46.6	82.8	101.8	126.0	234.7	415.9	371.1	227.8	158.8
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>
4254.4
4566.7
4765.2
4822.2
4791.1
4718.6
4618.5
4449.4
4264.7
4147.3
4050.7
3943.7
3824.6
3650.3
3424.2
3137.7
2811.5
2485.3
2231.6
2062.5
1901.9
1779.4
1617.2
1477.4
1346.2
1242.7
1161.5
1099.4
1052.8
992.4
1097.7
812.9
643.8
517.8
384.9
158.8
0.0

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