

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: P949017

Luminaire Tested: **GALN-SB3D-927-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3D-927-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18163 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

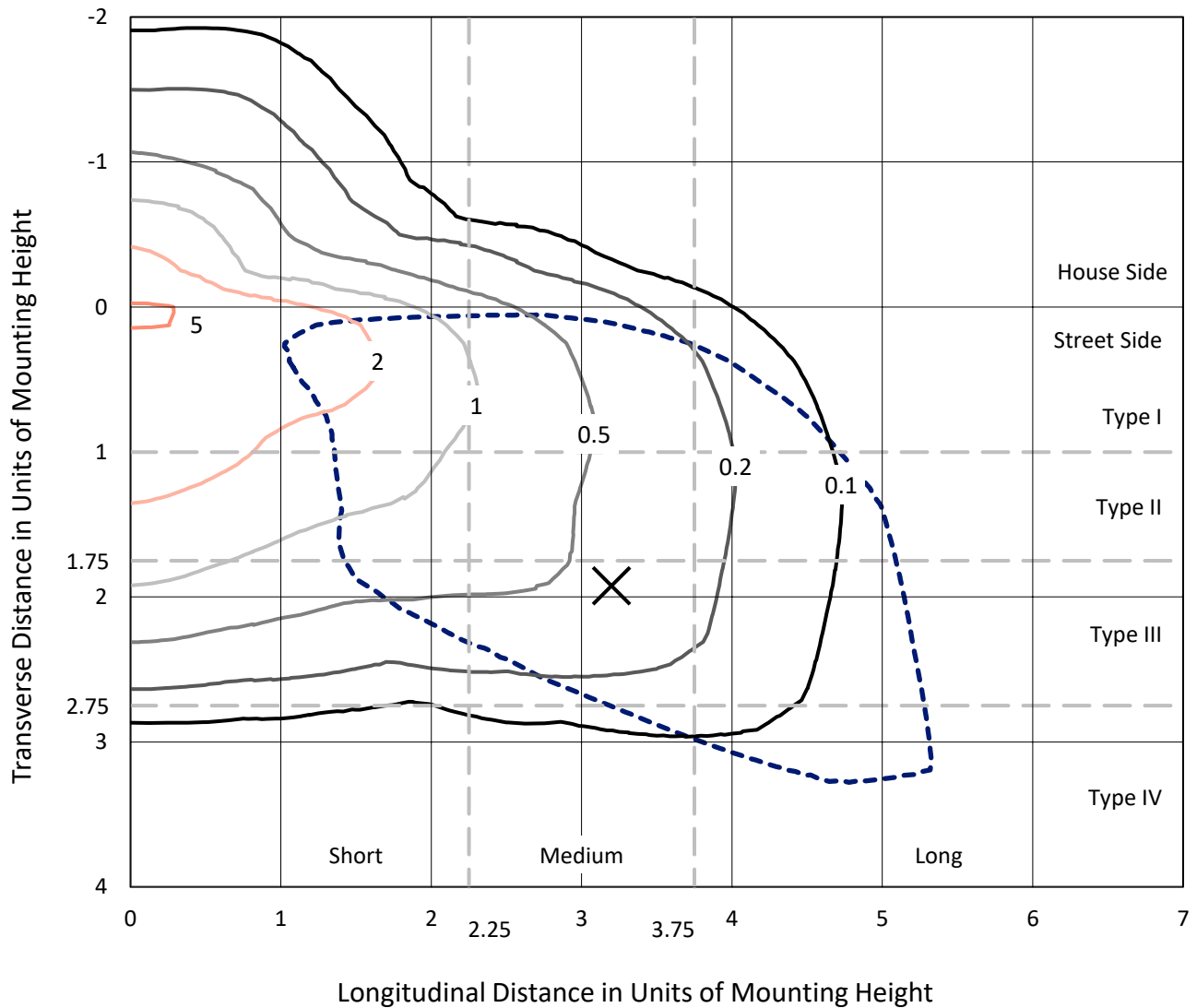
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

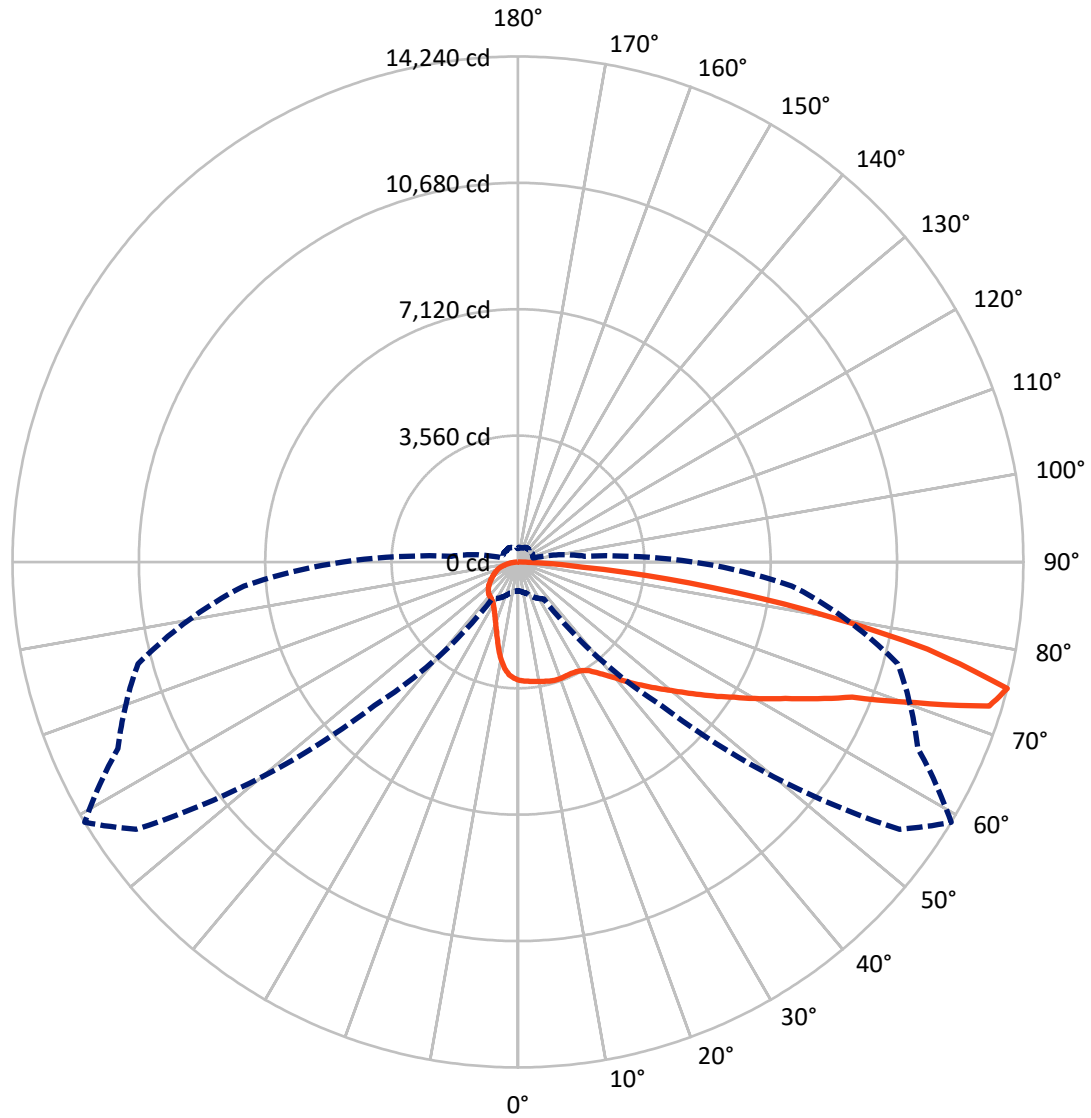
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3406.6	0.0	3406.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	14756.4	0.0	14756.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	18163.0	0.0	18163.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.9	1.6
10°-20°	764.1	4.2
20°-30°	1160.6	6.4
30°-40°	1725.2	9.5
40°-50°	2565.6	14.1
50°-60°	3482.5	19.2
60°-70°	4251.6	23.4
70°-80°	3336.6	18.4
80°-90°	578.0	3.2
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°	18163.0	100.0
0°-180°	18163.0	100.0

Coefficient of Utilization



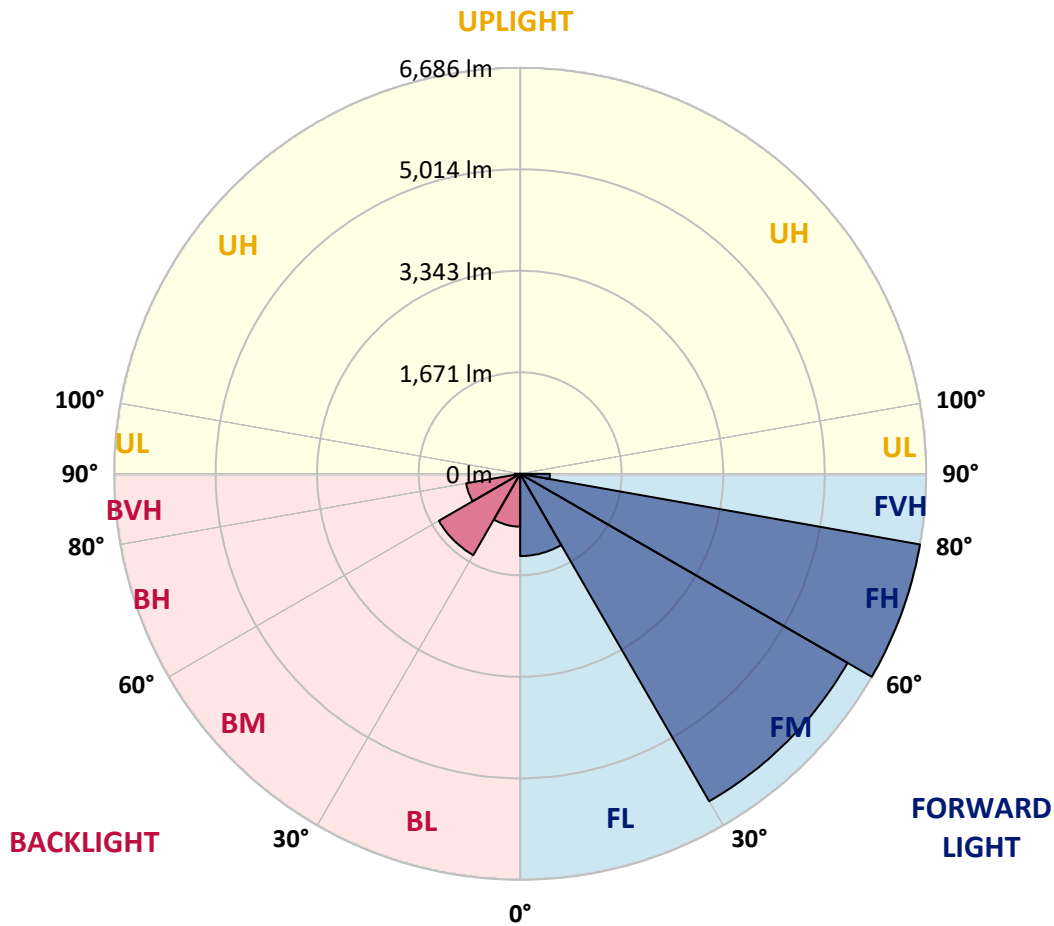
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1354.2	7.5			
FM (30°-60°)	6227.0	34.3			
FH (60°-80°)	6685.6	36.8			G3/7500
FVH (80°-90°)	489.5	2.7			G3/500
BL (0°-30°)	869.3	4.8	B2/1000		
BM (30°-60°)	1546.3	8.5	B2/2500		
BH (60°-80°)	902.5	5.0	B2/1000		G2/1000
BVH (80°-90°)	88.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8
2.5°	3362.1	3350.4	3362.1	3357.2	3355.3	3351.4	3352.3	3359.2	3355.3	3360.2
5°	3339.6	3332.8	3344.5	3341.6	3354.3	3356.3	3369.0	3376.8	3381.7	3382.6
7.5°	3302.5	3295.7	3312.3	3326.0	3353.3	3361.1	3387.5	3400.2	3407.1	3418.8
10°	3166.7	3163.8	3204.8	3256.6	3321.1	3361.1	3401.2	3422.7	3433.4	3464.7
12.5°	2926.3	2930.2	2984.0	3083.6	3212.6	3341.6	3416.8	3448.1	3464.7	3503.8
15°	2696.7	2695.7	2754.4	2860.9	3041.6	3255.6	3424.6	3478.4	3506.7	3564.4
17.5°	2563.8	2559.9	2601.0	2682.1	2850.1	3123.7	3405.1	3495.0	3555.6	3627.9
20°	2539.4	2531.6	2553.1	2593.2	2712.4	2979.1	3354.3	3495.0	3594.7	3688.5
22.5°	2628.3	2615.6	2606.8	2601.9	2654.7	2859.9	3296.6	3483.3	3652.3	3775.4
25°	2807.1	2787.6	2742.6	2698.7	2683.0	2806.2	3245.8	3480.3	3738.3	3892.7
27.5°	3096.3	3071.9	2981.1	2875.5	2780.8	2833.5	3223.4	3497.9	3833.1	4016.8
30°	3454.9	3428.6	3314.2	3152.0	2982.0	2935.1	3251.7	3549.7	3954.2	4181.9
32.5°	3776.4	3747.1	3649.4	3484.2	3254.6	3111.0	3341.6	3648.4	4144.8	4411.5
35°	4061.7	4027.5	3939.6	3787.1	3588.8	3358.2	3503.8	3823.3	4415.4	4784.7
37.5°	4341.1	4301.1	4205.3	4044.1	3905.4	3687.5	3727.5	4048.0	4775.0	5238.1
40°	4653.8	4596.2	4479.9	4320.6	4185.8	4073.4	4021.6	4323.6	5140.4	5744.2
42.5°	4956.7	4902.0	4763.2	4627.4	4458.4	4426.1	4362.6	4646.0	5540.0	6300.2
45°	5283.0	5217.6	5049.5	4877.6	4771.1	4660.6	4692.9	4968.4	5931.8	6866.9
47.5°	5588.9	5515.6	5317.2	5125.7	5067.1	4858.0	4995.8	5323.1	6339.3	7441.4
50°	5754.0	5681.7	5516.6	5343.6	5297.7	5101.3	5324.1	5713.0	6766.2	8014.0
52.5°	5891.8	5813.6	5597.7	5501.9	5488.2	5366.1	5728.6	6158.5	7193.2	8520.1
55°	6038.3	5951.4	5675.8	5589.8	5652.4	5663.1	6208.3	6663.6	7644.6	9013.5
57.5°	6207.4	6096.9	5751.1	5664.1	5812.6	6011.0	6759.4	7187.4	8088.2	9470.8
60°	6366.6	6255.2	5895.7	5782.3	5985.6	6414.5	7391.6	7821.5	8590.4	9878.2
62.5°	6397.9	6306.0	6011.0	6010.0	6220.1	6885.4	8140.0	8461.5	9029.1	10280.8
65°	5856.6	5798.9	5624.0	6001.2	6556.2	7563.5	8973.5	9280.3	9587.1	10632.5
67.5°	4457.4	4465.2	4452.5	5180.4	6284.5	8537.7	10180.1	10156.7	10275.9	11027.3
70°	2038.2	2084.1	2383.1	3576.1	5034.9	8650.0	12175.3	11871.5	11140.6	11538.3
72.5°	1101.2	1136.3	1258.5	1732.4	3027.0	7690.6	13666.3	13882.3	12290.6	11882.2
75°	808.0	827.6	912.6	1101.2	1271.2	5715.9	13131.9	14239.9	12434.3	11080.0
77.5°	604.8	613.6	683.0	872.5	650.7	3013.3	10492.8	11793.3	10644.2	9103.4
80°	438.7	448.5	500.3	654.6	456.3	1102.1	7204.9	8277.8	7290.0	5802.8
82.5°	302.9	306.8	329.3	445.5	318.5	428.0	4088.1	4854.1	4069.5	2036.2
85°	182.7	187.6	197.4	259.9	180.8	203.2	1764.6	1825.2	1216.5	486.6
87.5°	75.2	80.1	87.9	109.4	71.3	56.7	291.2	365.4	227.7	142.7
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3333.8	0°	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8
3343.5	2.5°	3338.7	3331.8	3313.3	3287.9	3264.4	3235.1	3222.4	3211.6	3201.9	3183.3
3369.9	5°	3359.2	3340.6	3290.8	3226.3	3153.0	3072.9	2994.7	2941.0	2895.1	2860.9
3400.2	7.5°	3390.4	3355.3	3264.4	3132.5	2964.4	2792.5	2637.1	2526.7	2443.7	2413.4
3443.2	10°	3422.7	3380.7	3222.4	2989.8	2699.7	2434.9	2228.7	2115.4	2048.9	2027.4
3494.0	12.5°	3460.8	3399.2	3156.9	2791.5	2403.6	2113.4	1933.6	1867.2	1833.0	1821.3
3556.6	15°	3516.5	3414.9	3058.2	2543.3	2121.2	1878.9	1762.6	1716.7	1699.1	1698.2
3621.0	17.5°	3558.5	3417.8	2904.8	2277.6	1904.3	1737.2	1641.5	1623.9	1635.6	1653.2
3684.5	20°	3605.4	3391.4	2703.6	2035.2	1751.9	1613.1	1573.1	1584.8	1613.1	1638.6
3768.6	22.5°	3638.6	3343.5	2460.3	1846.7	1620.0	1541.8	1539.9	1564.3	1579.9	1592.6
3867.3	25°	3667.9	3262.5	2202.3	1688.4	1511.5	1498.8	1520.3	1512.5	1501.8	1512.5
3965.9	27.5°	3689.4	3134.5	1971.7	1549.6	1435.3	1469.5	1456.8	1439.2	1438.3	1444.1
4082.2	30°	3682.6	2963.5	1782.2	1417.7	1381.6	1414.8	1384.5	1381.6	1378.7	1381.6
4257.1	32.5°	3682.6	2769.0	1636.6	1326.9	1347.4	1334.7	1331.8	1324.9	1313.2	1312.2
4494.5	35°	3703.1	2574.6	1511.5	1278.0	1319.1	1288.8	1290.7	1274.1	1249.7	1238.0
4809.2	37.5°	3745.1	2418.3	1387.4	1254.6	1269.2	1268.2	1260.4	1232.1	1189.1	1152.0
5201.9	40°	3846.7	2372.3	1302.4	1243.8	1245.8	1257.5	1237.0	1182.3	1084.6	1024.0
5600.6	42.5°	4006.0	2449.5	1283.9	1217.4	1230.1	1241.9	1201.8	1074.8	1005.4	969.3
6018.8	45°	4208.3	2584.4	1323.9	1179.3	1193.0	1213.5	1094.3	1033.7	1002.5	1003.5
6433.1	47.5°	4464.3	2726.0	1398.2	1146.1	1139.3	1151.0	1023.0	985.9	942.9	953.6
6830.7	50°	4760.3	2869.7	1468.5	1101.2	1079.7	1041.6	977.1	941.9	887.2	861.8
7214.7	52.5°	5080.8	3008.4	1496.9	1046.4	1015.2	971.2	945.8	902.8	836.4	794.4
7577.2	55°	5384.7	3134.5	1465.6	981.0	950.7	916.5	912.6	886.2	814.9	756.3
7899.6	57.5°	5671.9	3240.0	1387.4	914.5	885.2	864.7	891.1	878.4	788.5	713.3
8204.5	60°	5915.2	3312.3	1274.1	847.1	826.6	815.9	855.9	852.0	751.4	667.3
8478.1	62.5°	6108.7	3340.6	1149.0	782.6	777.8	758.2	807.1	807.1	704.5	622.4
8718.4	65°	6260.1	3313.3	1022.0	719.1	728.9	699.6	747.5	741.6	654.6	582.3
8994.9	67.5°	6394.0	3223.4	881.3	656.6	679.1	641.9	684.9	671.3	599.9	542.3
9234.3	70°	6453.6	3014.3	721.1	594.1	621.4	585.3	622.4	597.0	538.4	499.3
8971.5	72.5°	5974.8	2505.2	567.7	528.6	552.0	522.7	555.0	525.7	471.9	454.3
7747.2	75°	4943.0	1879.9	436.8	457.3	474.9	452.4	473.9	452.4	403.5	416.2
5722.7	77.5°	3589.8	1269.2	334.2	382.0	389.9	378.1	396.7	372.3	328.3	325.4
2852.1	80°	1785.1	743.6	261.9	301.9	299.0	291.2	312.7	300.9	263.8	279.4
769.9	82.5°	516.9	318.5	190.5	212.0	206.2	208.1	223.8	229.6	343.9	341.0
239.4	85°	162.2	125.1	114.3	118.2	112.4	115.3	131.9	261.9	242.3	141.7
74.3	87.5°	42.0	43.0	28.3	30.3	31.3	37.1	42.0	159.3	76.2	49.8
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>
3333.8
3174.5
2832.5
2360.6
1994.2
1824.2
1702.1
1660.0
1647.3
1599.5
1519.4
1453.9
1392.3
1324.9
1249.7
1164.7
1031.8
969.3
1008.3
981.0
868.6
793.4
756.3
709.4
664.4
619.5
578.4
538.4
491.5
439.7
380.1
310.7
276.5
348.8
153.4
52.8
0.0

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