

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: P944435

Luminaire Tested: **GALN-SB9B-850-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9B-850-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48611 lumens
Efficiency: N/A
Efficacy: 147.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

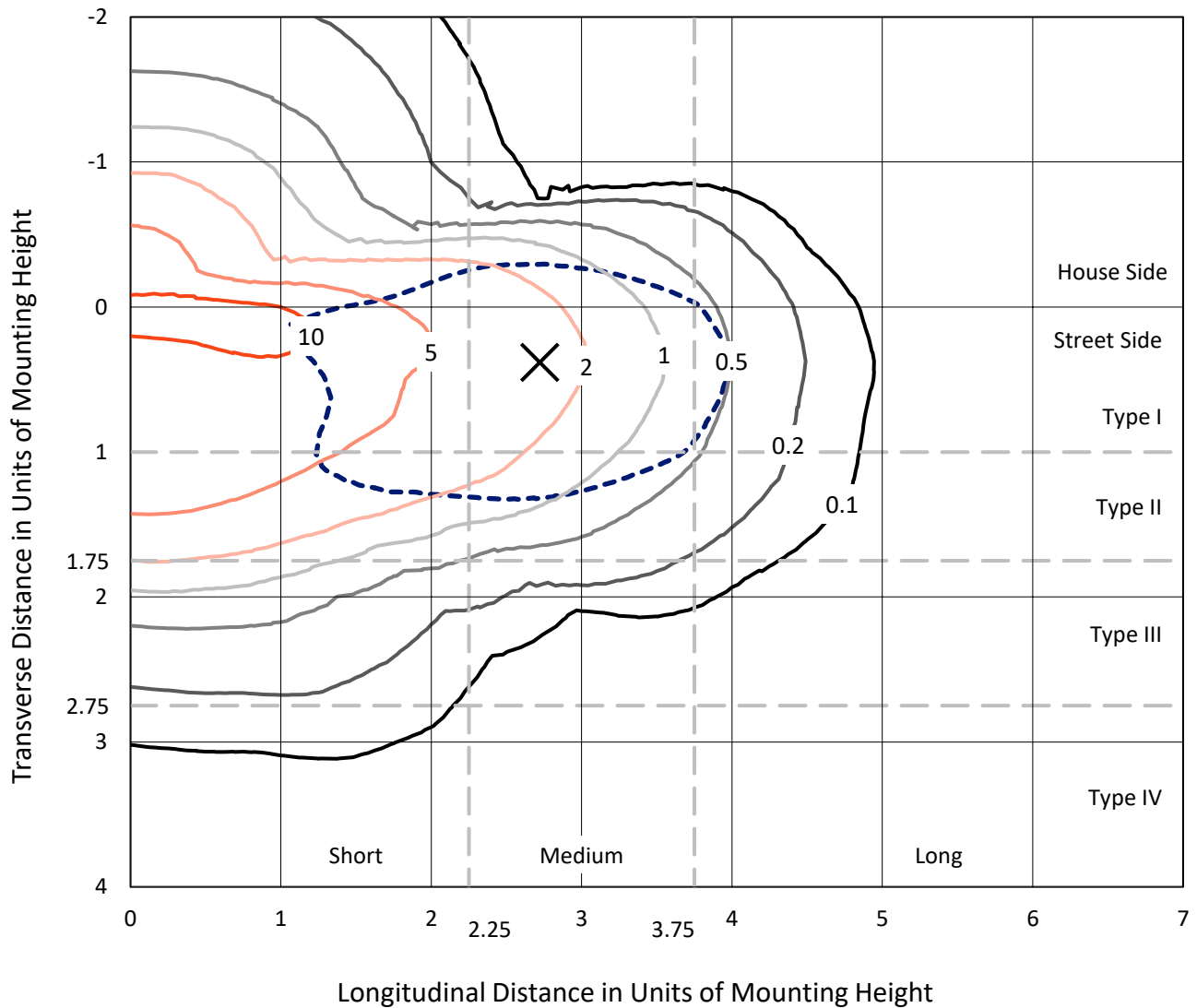
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944435
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Iso-Footcandle Lines of Horizontal Illumination

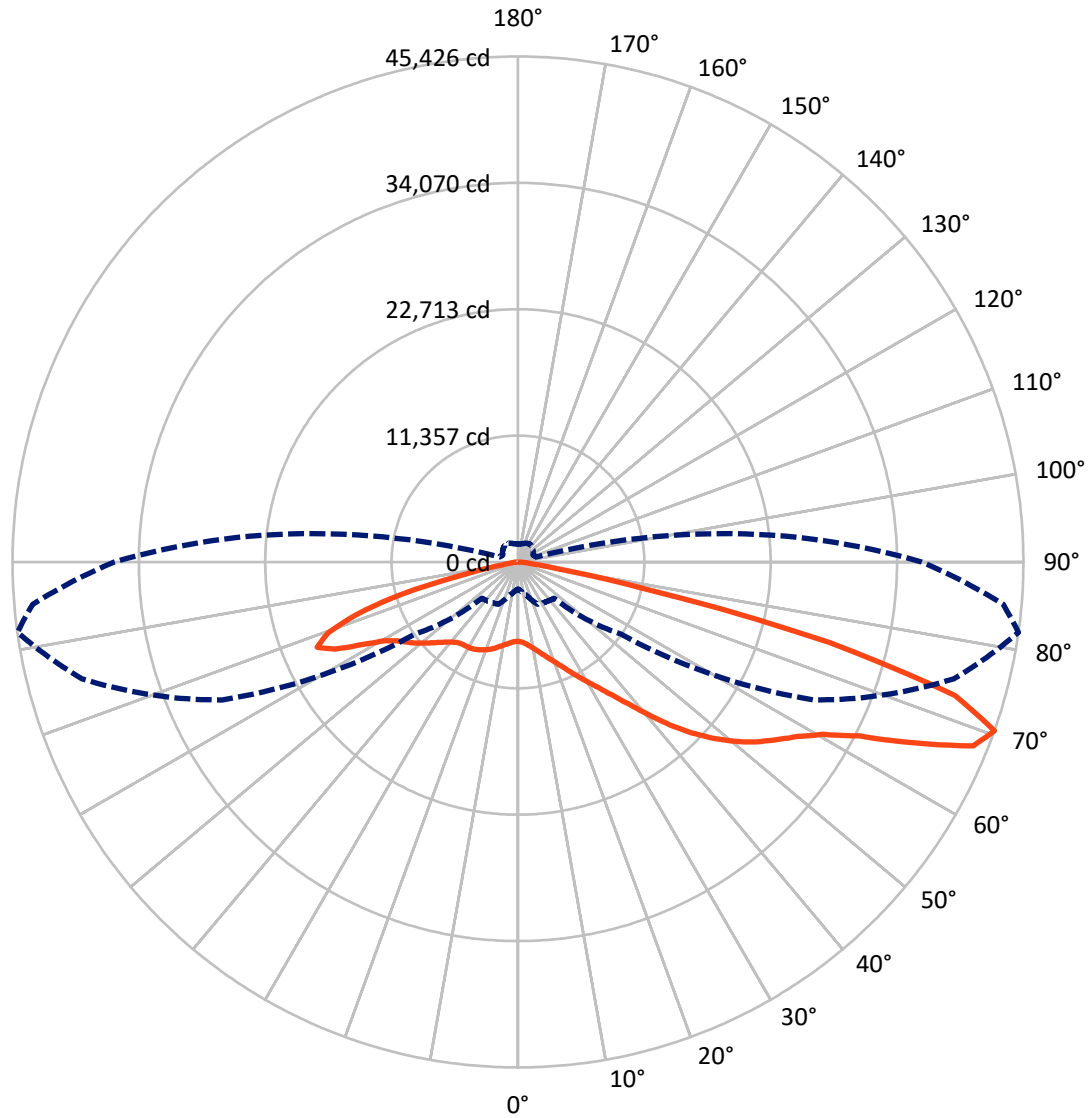
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Medium - N/A

REPORT NUMBER: P944435
CATALOG NUMBER: GALN-SB9B-850-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11983.8	0.0	11983.8
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	36627.2	0.0	36627.2
	% Fixture	75.3	0.0	75.3
Total	Lumens	48611.0	0.0	48611.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	672.9	1.4
10°-20°	1933.3	4.0
20°-30°	3234.2	6.7
30°-40°	5052.7	10.4
40°-50°	8047.1	16.6
50°-60°	11198.5	23.0
60°-70°	11714.1	24.1
70°-80°	6122.4	12.6
80°-90°	635.7	1.3
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°	48611.0	100.0
0°-180°	48611.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944435

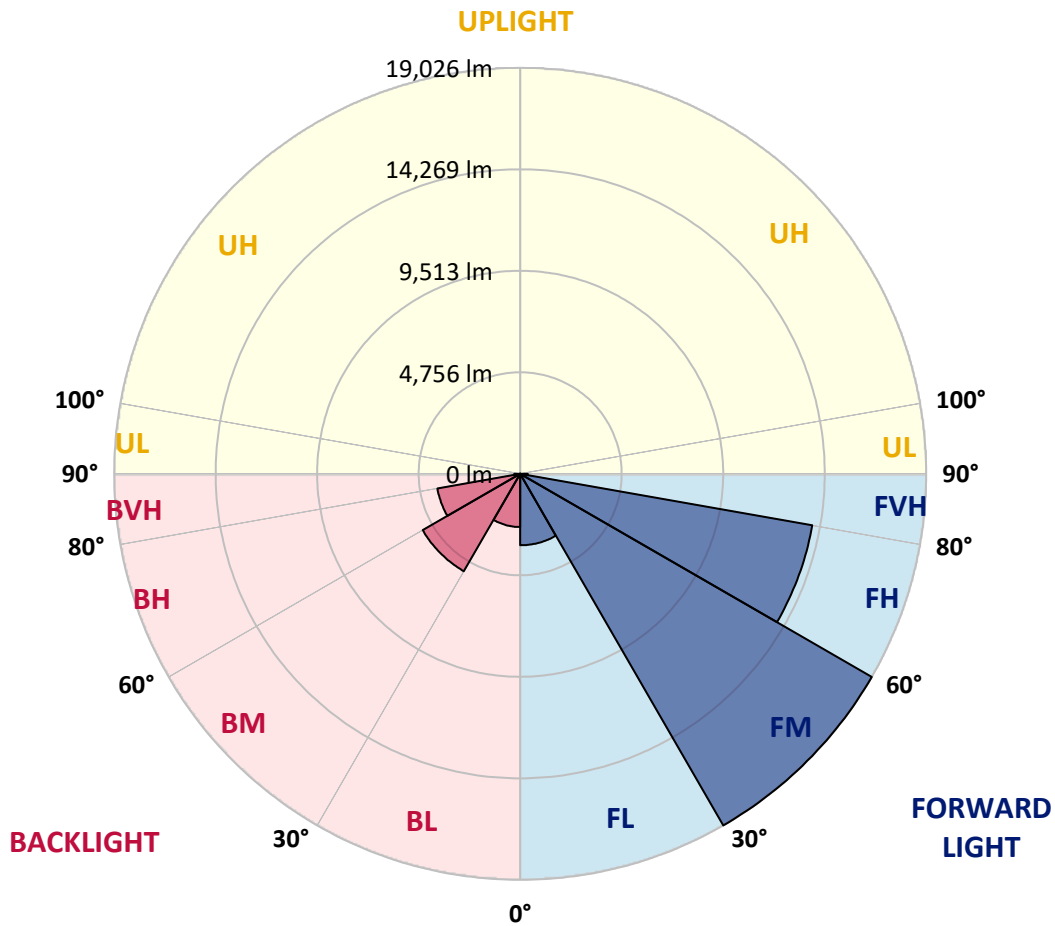
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3347.4	6.9			
FM (30°-60°)	19025.9	39.1			
FH (60°-80°)	13898.0	28.6			G5
FVH (80°-90°)	355.9	0.7			G3/500
BL (0°-30°)	2493.1	5.1	B3/2500		
BM (30°-60°)	5272.4	10.8	B4/8500		
BH (60°-80°)	3938.5	8.1	B4/5000		G4/5000
BVH (80°-90°)	279.9	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 II Medium



REPORT NUMBER: P944435
 CATALOG NUMBER: GALN-SB9B-850-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	7127.0	7127.0	7127.0	7127.0	7127.0	7127.0	7127.0	7127.0	7127.0	7127.0
2.5°	7297.2	7338.5	7325.6	7312.7	7312.7	7294.6	7292.1	7266.3	7245.6	7212.1
5°	7390.1	7433.9	7428.8	7439.1	7472.6	7480.4	7488.1	7472.6	7431.4	7390.1
7.5°	7307.5	7356.6	7372.0	7433.9	7537.1	7630.0	7699.6	7728.0	7689.3	7630.0
10°	7029.0	7083.1	7137.3	7284.3	7467.5	7686.7	7872.4	7983.4	7975.6	7918.9
12.5°	6464.1	6520.8	6636.9	6923.2	7258.5	7645.4	7991.1	8223.2	8303.2	8261.9
15°	6012.7	6061.7	6149.4	6443.4	6879.4	7467.5	8034.9	8486.3	8690.1	8666.9
17.5°	5999.8	6020.4	6074.6	6213.9	6549.2	7188.9	7988.5	8744.3	9133.8	9131.2
20°	6226.8	6234.5	6265.4	6293.8	6484.7	6977.4	7869.9	8958.4	9631.6	9631.6
22.5°	6541.4	6536.3	6567.2	6541.4	6634.3	6959.3	7795.1	9146.7	10186.2	10227.5
25°	7013.5	6987.7	6980.0	6920.6	6938.7	7127.0	7877.6	9360.8	10843.9	10929.1
27.5°	7642.9	7601.6	7573.2	7436.5	7390.1	7472.6	8130.4	9618.7	11576.5	11723.5
30°	8463.1	8388.3	8347.1	8109.7	7942.1	7955.0	8512.1	9961.8	12342.6	12579.9
32.5°	9582.6	9466.5	9355.6	8966.1	8659.2	8558.6	9004.8	10436.4	13173.2	13552.4
35°	10836.2	10743.3	10624.7	10023.7	9551.6	9319.5	9670.3	11099.3	14145.6	14746.6
37.5°	12043.4	11963.4	12020.2	11210.2	10601.5	10263.6	10542.2	11989.2	15345.1	16232.4
40°	13291.8	13229.9	13237.7	12463.8	11754.5	11375.3	11599.7	13106.1	16719.9	17999.3
42.5°	14648.6	14602.2	14447.4	13761.3	12964.2	12610.9	12817.2	14395.8	18195.3	20011.3
45°	16167.9	16139.5	15995.1	15208.4	14295.2	13898.0	14176.6	15819.7	19678.5	21904.6
47.5°	17480.8	17504.0	17486.0	16823.1	15876.4	15293.5	15626.2	17305.4	21058.5	23684.4
50°	18112.8	18234.0	18412.0	18205.7	17617.5	17024.3	17088.8	18739.6	22374.0	25353.3
52.5°	17782.6	18012.2	18497.1	18827.3	19054.3	18930.5	18757.7	20163.4	23612.2	26859.7
55°	16552.2	16874.7	17679.5	18476.5	19634.7	20534.9	20761.9	21742.1	24819.3	28185.5
57.5°	14310.7	14834.3	15556.6	17168.7	19118.8	21311.3	23098.8	23932.0	26098.7	29601.6
60°	10467.3	11169.0	12066.6	14465.5	17313.2	20896.0	25087.6	27295.6	27917.2	31435.6
62.5°	6698.8	7132.1	7957.6	10217.1	13490.4	18768.0	25696.3	31500.1	30999.7	34443.2
65°	4586.2	4864.8	5620.6	6889.7	8721.1	13970.2	24066.1	34652.1	35895.4	39210.0
67.5°	3332.6	3544.1	4189.0	5300.7	5682.5	8267.1	18675.1	34507.7	40654.5	44121.2
70°	2429.8	2579.4	3121.1	4189.0	4372.1	4599.1	11313.4	29333.3	40551.3	45426.4
72.5°	1800.4	1903.6	2267.3	3250.1	3539.0	3105.6	5600.0	21319.0	34845.6	41087.8
75°	1302.6	1380.0	1648.3	2486.6	2832.2	2365.3	2793.5	12458.7	24306.0	28902.6
77.5°	995.7	1055.0	1230.4	1821.1	2267.3	1774.7	1733.4	5731.5	11524.9	11581.7
80°	799.6	838.3	933.8	1282.0	1738.5	1328.4	1129.8	2313.8	3642.2	3082.4
82.5°	588.1	652.6	789.3	900.2	1243.3	915.7	688.7	1168.5	1385.2	1191.7
85°	335.3	379.2	477.2	644.9	794.5	559.7	394.7	518.5	644.9	528.8
87.5°	118.7	154.8	167.7	252.8	345.6	232.1	152.2	149.6	211.5	157.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944435
 CATALOG NUMBER: GALN-SB9B-850-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7127.0	0°	7127.0	7127.0	7127.0	7127.0	7127.0	7127.0	7127.0	7127.0	7127.0	7127.0
7204.4	2.5°	7178.6	7165.7	7114.1	7044.4	6972.2	6902.6	6879.4	6830.3	6796.8	6778.8
7372.0	5°	7323.0	7281.7	7160.5	7005.7	6843.2	6667.8	6544.0	6430.5	6348.0	6270.6
7601.6	7.5°	7529.4	7457.1	7248.2	6977.4	6688.5	6397.0	6180.3	6015.2	5904.3	5832.1
7869.9	10°	7769.3	7658.3	7338.5	6933.5	6487.3	6069.4	5814.0	5672.2	5602.5	5563.8
8176.8	12.5°	8045.3	7887.9	7431.4	6832.9	6180.3	5703.1	5527.7	5486.5	5489.0	5491.6
8563.7	15°	8385.7	8166.5	7506.2	6613.7	5780.5	5422.0	5391.0	5458.1	5527.7	5561.3
9002.2	17.5°	8770.1	8460.5	7519.1	6252.6	5388.4	5241.4	5339.4	5483.9	5589.6	5636.1
9492.3	20°	9182.8	8759.8	7426.2	5741.8	5066.0	5094.4	5269.8	5455.5	5571.6	5630.9
10052.1	22.5°	9654.8	9079.6	7204.4	5205.3	4802.9	4934.5	5140.8	5321.4	5442.6	5501.9
10709.8	25°	10193.9	9438.2	6856.1	4753.9	4575.9	4753.9	4960.3	5109.9	5207.9	5262.0
11445.0	27.5°	10792.4	9812.2	6391.8	4395.4	4377.3	4568.2	4738.4	4854.5	4906.1	4947.4
12226.5	30°	11393.4	10152.7	5829.5	4124.5	4204.5	4385.0	4506.3	4557.9	4573.3	4581.1
13098.4	32.5°	12043.4	10446.7	5238.8	3900.1	4039.4	4207.1	4279.3	4302.5	4230.3	4181.3
14155.9	35°	12830.1	10761.4	4661.0	3722.1	3876.9	4021.3	4044.6	4023.9	3938.8	3838.2
15481.8	37.5°	13802.6	11153.5	4199.3	3595.7	3724.7	3820.1	3791.8	3786.6	3794.3	3675.7
17075.9	40°	14994.3	11664.2	3861.4	3497.7	3600.9	3621.5	3541.6	3585.4	3624.1	3443.5
18824.7	42.5°	16317.5	12280.7	3647.3	3430.6	3497.7	3448.7	3324.9	3373.9	3368.7	3131.4
20581.3	45°	17666.6	12951.3	3572.5	3381.6	3402.3	3304.3	3167.5	3180.4	3072.1	2858.0
22265.7	47.5°	19007.9	13671.0	3618.9	3340.4	3283.6	3172.7	3066.9	3010.2	2850.3	2690.4
23880.4	50°	20323.4	14426.8	3789.2	3257.8	3121.1	3056.6	2979.2	2878.7	2708.4	2571.7
25407.4	52.5°	21543.4	15187.7	3980.1	3121.1	2917.3	2956.0	2907.0	2790.9	2623.3	2484.0
26851.9	55°	22699.0	15948.7	4054.9	2932.8	2726.5	2868.3	2840.0	2625.9	2424.7	2311.2
28363.5	57.5°	23957.8	16864.3	3972.3	2692.9	2571.7	2767.7	2659.4	2422.1	2306.0	2220.9
30331.6	60°	25701.5	18301.1	3794.3	2396.3	2424.7	2618.1	2432.4	2334.4	2208.0	2112.6
33282.5	62.5°	28598.2	20981.1	3508.0	2102.2	2251.8	2396.3	2324.1	2226.1	2097.1	2004.2
38327.8	65°	32880.1	24705.8	2968.9	1872.7	2058.4	2179.6	2208.0	2110.0	1975.8	1877.8
42749.0	67.5°	36491.3	27042.8	2246.7	1681.8	1859.8	2004.2	2084.2	1988.7	1846.9	1751.4
43783.3	70°	36292.7	25345.5	1715.3	1493.5	1684.4	1831.4	1934.6	1859.8	1707.6	1617.3
39769.7	72.5°	32235.2	21203.0	1387.7	1302.6	1506.4	1650.8	1774.7	1717.9	1563.1	1475.4
29134.7	75°	23681.8	15051.0	1109.2	1109.2	1284.6	1462.5	1599.3	1563.1	1421.3	1359.4
12231.7	77.5°	9982.4	6314.5	869.3	920.9	1067.9	1256.2	1426.4	1439.3	1315.5	1392.9
3234.6	80°	2654.2	1741.1	662.9	724.8	838.3	1036.9	1240.7	1235.5	1101.4	1029.2
1202.0	82.5°	1011.1	686.1	472.0	510.7	606.2	794.5	982.8	1013.7	879.6	760.9
472.0	85°	389.5	294.1	291.5	307.0	353.4	526.2	742.9	768.7	662.9	562.3
131.6	87.5°	100.6	87.7	108.3	103.2	162.5	281.2	425.6	441.1	405.0	234.7
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>
7127.0
6799.4
6301.6
5847.6
5574.2
5496.8
5558.7
5646.4
5646.4
5517.4
5277.5
4962.8
4599.1
4196.7
3843.4
3683.4
3448.7
3128.9
2865.8
2690.4
2561.4
2486.6
2300.9
2213.2
2107.4
2004.2
1883.0
1754.0
1625.0
1475.4
1341.3
1263.9
957.0
760.9
580.4
335.3
0.0

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