

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: P943425

Luminaire Tested: **GALN-SB7D-927-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943425
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-SB7D-927-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43647 lumens
Efficiency: N/A
Efficacy: 85.1 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

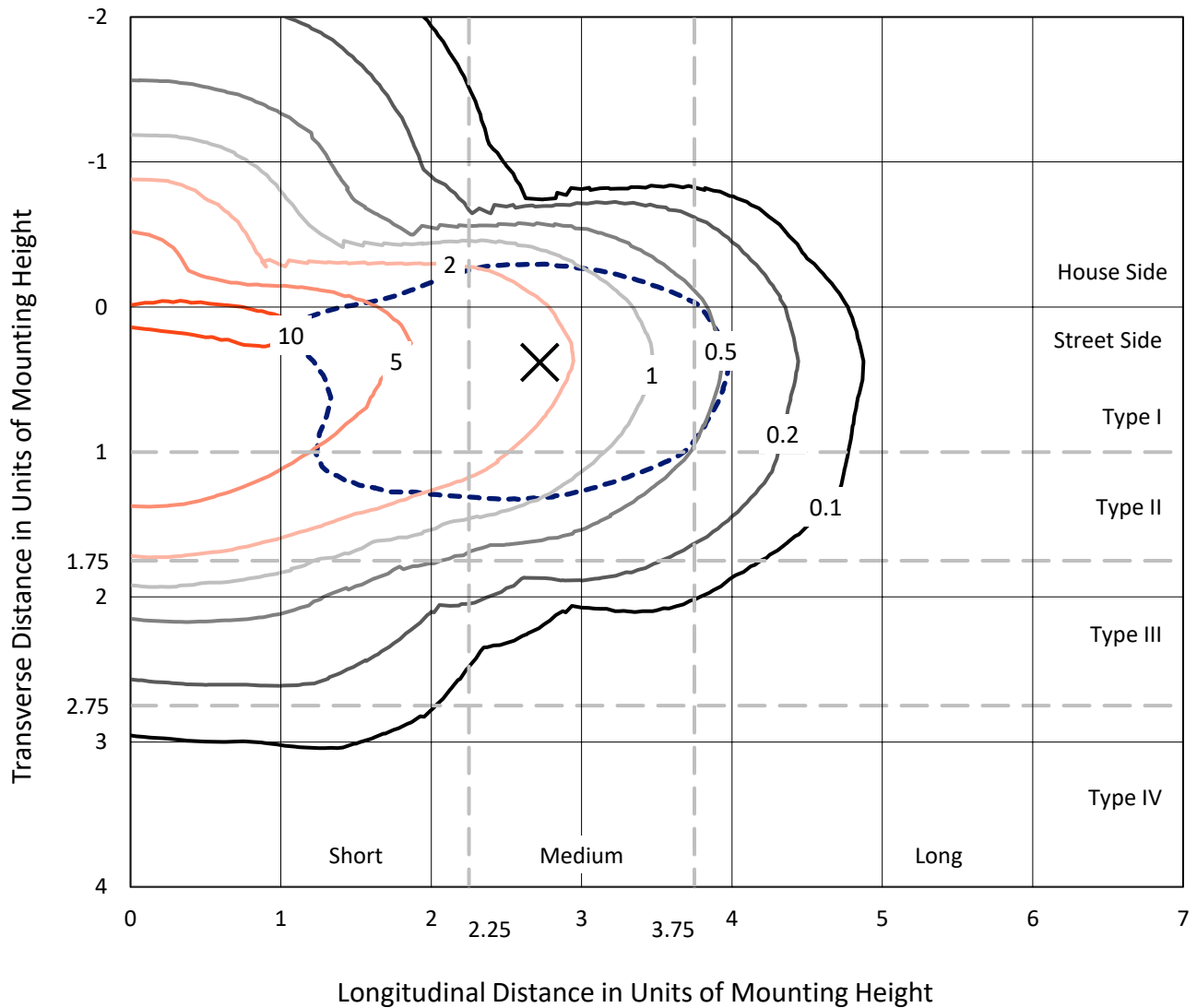
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

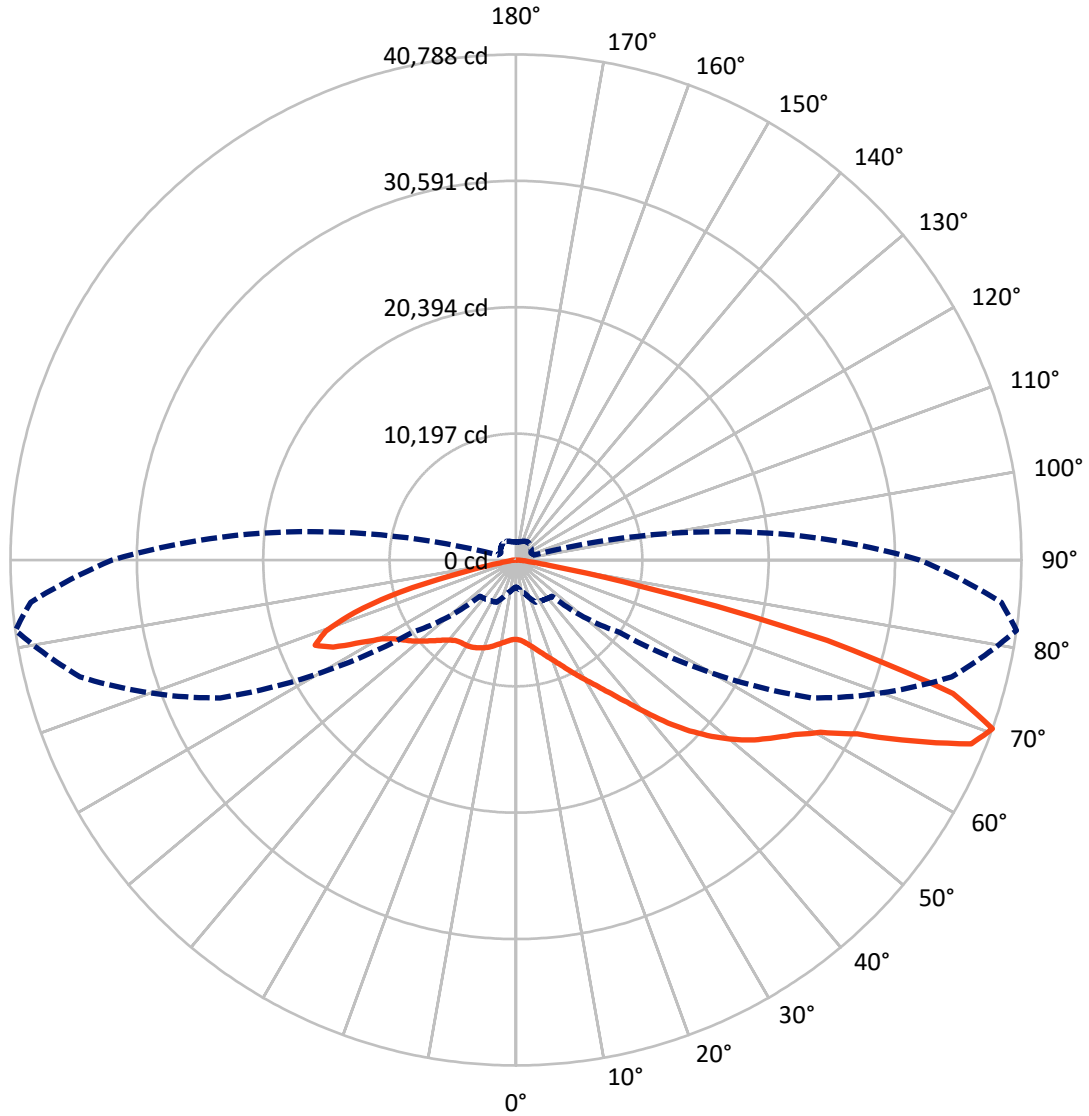
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Medium - N/A

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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	10760.0	0.0	10760.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	32886.9	0.0	32886.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	43647.0	0.0	43647.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.2	1.4
10°-20°	1735.9	4.0
20°-30°	2904.0	6.7
30°-40°	4536.8	10.4
40°-50°	7225.3	16.6
50°-60°	10054.9	23.0
60°-70°	10517.9	24.1
70°-80°	5497.2	12.6
80°-90°	570.8	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°	43647.0	100.0
0°-180°	43647.0	100.0

Coefficient of Utilization



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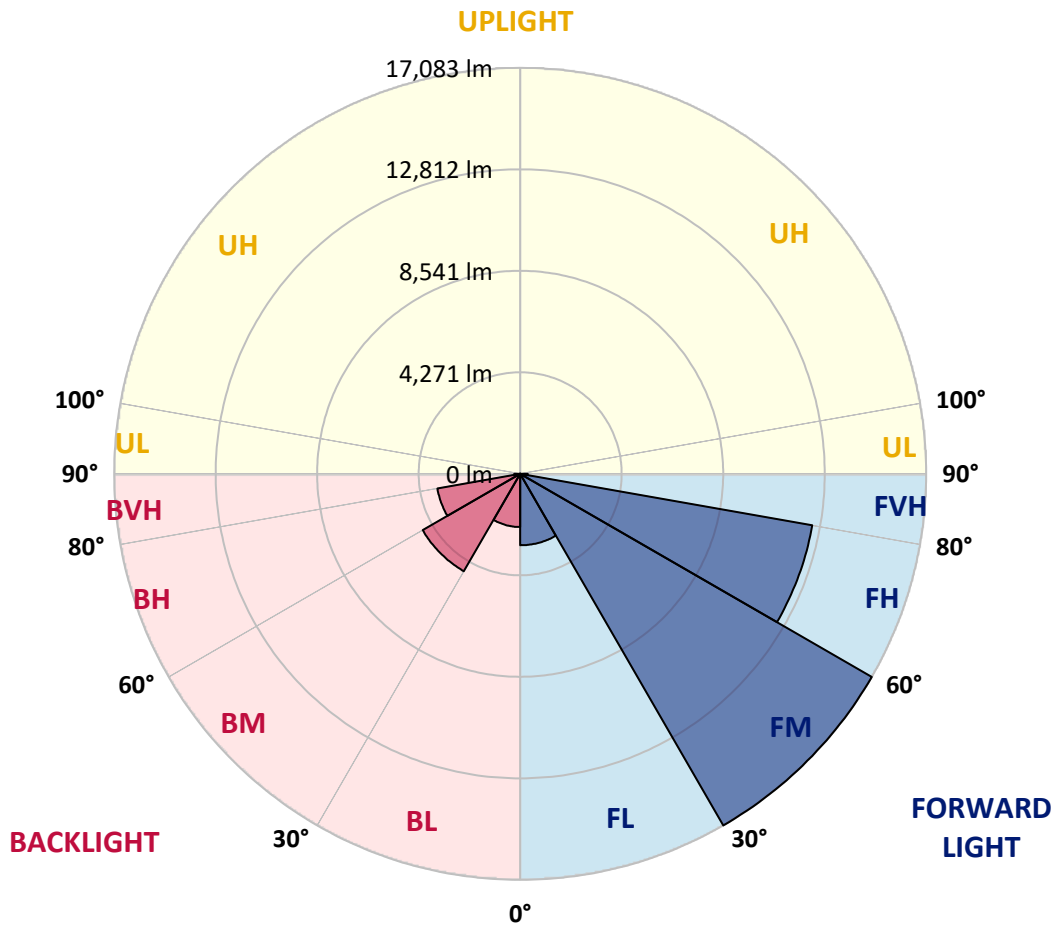
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3005.6	6.9			
FM (30°-60°)	17083.0	39.1			
FH (60°-80°)	12478.8	28.6			G5
FVH (80°-90°)	319.6	0.7			G3/500
BL (0°-30°)	2238.5	5.1	B3/2500		
BM (30°-60°)	4734.0	10.8	B3/5000		
BH (60°-80°)	3536.3	8.1	B4/5000		G4/5000
BVH (80°-90°)	251.3	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	6399.2	6399.2	6399.2	6399.2	6399.2	6399.2	6399.2	6399.2	6399.2	6399.2
2.5°	6552.1	6589.1	6577.5	6566.0	6566.0	6549.7	6547.4	6524.3	6505.7	6475.6
5°	6635.4	6674.8	6670.2	6679.4	6709.5	6716.5	6723.4	6709.5	6672.5	6635.4
7.5°	6561.3	6605.3	6619.2	6674.8	6767.4	6850.8	6913.4	6938.8	6904.1	6850.8
10°	6311.2	6359.8	6408.5	6540.5	6704.9	6901.8	7068.5	7168.1	7161.2	7110.2
12.5°	5804.0	5854.9	5959.1	6216.2	6517.3	6864.7	7175.1	7383.5	7455.3	7418.2
15°	5398.7	5442.7	5521.4	5785.4	6176.9	6704.9	7214.4	7619.7	7802.7	7781.9
17.5°	5387.1	5405.6	5454.3	5579.3	5880.4	6454.8	7172.8	7851.3	8201.1	8198.8
20°	5590.9	5597.8	5625.6	5651.1	5822.5	6264.9	7066.2	8043.6	8648.1	8648.1
22.5°	5873.5	5868.8	5896.6	5873.5	5956.8	6248.7	6999.0	8212.6	9146.0	9183.1
25°	6297.3	6274.1	6267.2	6213.9	6230.1	6399.2	7073.2	8404.9	9736.6	9813.0
27.5°	6862.4	6825.3	6799.9	6677.1	6635.4	6709.5	7300.1	8636.5	10394.4	10526.4
30°	7598.9	7531.7	7494.7	7281.6	7131.1	7142.6	7642.9	8944.5	11082.2	11295.3
32.5°	8604.1	8499.8	8400.2	8050.5	7774.9	7684.6	8085.3	9370.7	11828.0	12168.4
35°	9729.6	9646.3	9539.7	9000.1	8576.3	8367.8	8682.8	9965.9	12701.1	13240.8
37.5°	10813.6	10741.8	10792.7	10065.5	9518.9	9215.5	9465.6	10764.9	13778.1	14574.8
40°	11934.5	11878.9	11885.9	11191.1	10554.2	10213.7	10415.2	11767.8	15012.5	16161.3
42.5°	13152.7	13111.1	12972.1	12356.0	11640.4	11323.1	11508.4	12925.8	16337.3	17967.8
45°	14516.9	14491.4	14361.7	13655.3	12835.4	12478.8	12728.9	14204.2	17669.0	19667.7
47.5°	15695.7	15716.6	15700.4	15105.2	14255.2	13731.8	14030.5	15538.3	18908.1	21265.8
50°	16263.2	16372.0	16531.8	16346.6	15818.5	15285.8	15343.7	16826.0	20089.3	22764.3
52.5°	15966.7	16172.9	16608.3	16904.7	17108.5	16997.4	16842.2	18104.4	21201.0	24116.8
55°	14862.0	15151.5	15874.1	16589.7	17629.6	18437.9	18641.7	19521.8	22284.9	25307.3
57.5°	12849.3	13319.5	13968.0	15415.5	17166.4	19135.1	20740.1	21488.1	23433.6	26578.8
60°	9398.5	10028.4	10834.4	12988.3	15545.2	18762.2	22525.7	24508.2	25066.4	28225.5
62.5°	6014.7	6403.8	7145.0	9173.8	12112.8	16851.4	23072.3	28283.4	27834.1	30926.0
65°	4117.9	4368.0	5046.6	6186.1	7830.5	12543.6	21608.6	31113.6	32229.9	35206.0
67.5°	2992.3	3182.2	3761.2	4759.4	5102.2	7422.9	16768.1	30983.9	36503.0	39615.7
70°	2181.7	2316.0	2802.4	3761.2	3925.7	4129.5	10158.1	26337.9	36410.3	40787.6
72.5°	1616.6	1709.2	2035.8	2918.2	3177.6	2788.5	5028.1	19142.0	31287.3	36892.1
75°	1169.6	1239.1	1479.9	2232.7	2543.0	2123.8	2508.3	11186.4	21824.0	25951.1
77.5°	894.0	947.3	1104.7	1635.1	2035.8	1593.4	1556.4	5146.2	10348.0	10399.0
80°	718.0	752.7	838.4	1151.1	1561.0	1192.8	1014.4	2077.5	3270.2	2767.7
82.5°	528.1	586.0	708.7	808.3	1116.3	822.2	618.4	1049.2	1243.7	1070.0
85°	301.1	340.5	428.5	579.0	713.3	502.6	354.4	465.5	579.0	474.8
87.5°	106.5	139.0	150.5	227.0	310.3	208.4	136.6	134.3	189.9	141.3
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°
6399.2	0°	6399.2	6399.2	6399.2	6399.2	6399.2	6399.2	6399.2	6399.2	6399.2	6399.2
6468.7	2.5°	6445.5	6433.9	6387.6	6325.1	6260.2	6197.7	6176.9	6132.9	6102.7	6086.5
6619.2	5°	6575.2	6538.2	6429.3	6290.3	6144.4	5986.9	5875.8	5773.9	5699.8	5630.3
6825.3	7.5°	6760.5	6695.6	6508.0	6264.9	6005.5	5743.8	5549.2	5401.0	5301.4	5236.5
7066.2	10°	6975.9	6876.3	6589.1	6225.5	5824.8	5449.6	5220.3	5093.0	5030.4	4995.7
7341.8	12.5°	7223.7	7082.4	6672.5	6135.2	5549.2	5120.7	4963.3	4926.2	4928.5	4930.8
7689.2	15°	7529.4	7332.6	6739.7	5938.3	5190.2	4868.3	4840.5	4900.7	4963.3	4993.4
8083.0	17.5°	7874.5	7596.6	6751.2	5614.1	4838.2	4706.2	4794.2	4923.9	5018.8	5060.5
8523.0	20°	8245.1	7865.2	6667.9	5155.5	4548.7	4574.2	4731.7	4898.4	5002.6	5055.9
9025.6	22.5°	8668.9	8152.4	6468.7	4673.8	4312.5	4430.6	4615.9	4778.0	4886.8	4940.1
9616.2	25°	9153.0	8474.4	6156.0	4268.4	4108.6	4268.4	4453.7	4588.1	4676.1	4724.7
10276.2	27.5°	9690.3	8810.2	5739.1	3946.5	3930.3	4101.7	4254.6	4358.8	4405.1	4442.1
10978.0	30°	10229.9	9115.9	5234.2	3703.3	3775.1	3937.3	4046.1	4092.4	4106.3	4113.3
11760.8	32.5°	10813.6	9379.9	4703.9	3501.8	3626.9	3777.4	3842.3	3863.1	3798.3	3754.3
12710.4	35°	11519.9	9662.5	4185.1	3342.0	3481.0	3610.7	3631.5	3613.0	3536.6	3446.3
13900.8	37.5°	12393.1	10014.5	3770.5	3228.5	3344.3	3430.0	3404.6	3399.9	3406.9	3300.3
15332.1	40°	13463.1	10473.1	3467.1	3140.5	3233.2	3251.7	3179.9	3219.3	3254.0	3091.9
16902.4	42.5°	14651.2	11026.6	3274.9	3080.3	3140.5	3096.5	2985.4	3029.4	3024.7	2811.7
18479.6	45°	15862.5	11628.8	3207.7	3036.3	3054.8	2966.8	2844.1	2855.7	2758.4	2566.2
19992.0	47.5°	17066.8	12275.0	3249.4	2999.3	2948.3	2848.7	2753.8	2702.8	2559.2	2415.6
21441.8	50°	18248.0	12953.6	3402.3	2925.1	2802.4	2744.5	2675.0	2584.7	2431.8	2309.1
22812.9	52.5°	19343.5	13636.8	3573.6	2802.4	2619.4	2654.2	2610.2	2505.9	2355.4	2230.3
24109.9	55°	20381.1	14320.0	3640.8	2633.3	2448.0	2575.4	2550.0	2357.7	2177.1	2075.2
25467.1	57.5°	21511.3	15142.2	3566.7	2417.9	2309.1	2485.1	2387.8	2174.8	2070.5	1994.1
27234.2	60°	23076.9	16432.2	3406.9	2151.6	2177.1	2350.8	2184.0	2096.0	1982.5	1896.8
29883.8	62.5°	25677.8	18838.6	3149.8	1887.6	2021.9	2151.6	2086.7	1998.7	1882.9	1799.6
34413.9	65°	29522.5	22183.0	2665.8	1681.4	1848.2	1957.0	1982.5	1894.5	1774.1	1686.1
38383.6	67.5°	32764.9	24281.3	2017.3	1510.1	1669.9	1799.6	1871.4	1785.7	1658.3	1572.6
39312.3	70°	32586.6	22757.3	1540.2	1341.0	1512.4	1644.4	1737.0	1669.9	1533.2	1452.2
35708.6	72.5°	28943.4	19037.8	1246.0	1169.6	1352.6	1482.3	1593.4	1542.5	1403.5	1324.8
26159.6	75°	21263.5	13514.0	995.9	995.9	1153.4	1313.2	1435.9	1403.5	1276.1	1220.5
10982.6	77.5°	8963.0	5669.6	780.5	826.8	958.8	1127.9	1280.8	1292.3	1181.2	1250.7
2904.3	80°	2383.2	1563.3	595.2	650.8	752.7	931.0	1114.0	1109.4	988.9	924.1
1079.3	82.5°	907.9	616.1	423.8	458.6	544.3	713.3	882.4	910.2	789.8	683.2
423.8	85°	349.7	264.0	261.7	275.6	317.3	472.5	667.0	690.2	595.2	504.9
118.1	87.5°	90.3	78.7	97.3	92.6	145.9	252.4	382.1	396.0	363.6	210.8
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>
6399.2
6105.1
5658.1
5250.4
5004.9
4935.5
4991.0
5069.8
5069.8
4954.0
4738.6
4456.0
4129.5
3768.2
3450.9
3307.3
3096.5
2809.3
2573.1
2415.6
2299.8
2232.7
2065.9
1987.2
1892.2
1799.6
1690.7
1574.9
1459.1
1324.8
1204.3
1134.9
859.2
683.2
521.1
301.1
0.0

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