

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: P943935

Luminaire Tested: **GALN-SB8C-927-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943935
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-SB8C-927-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36524 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

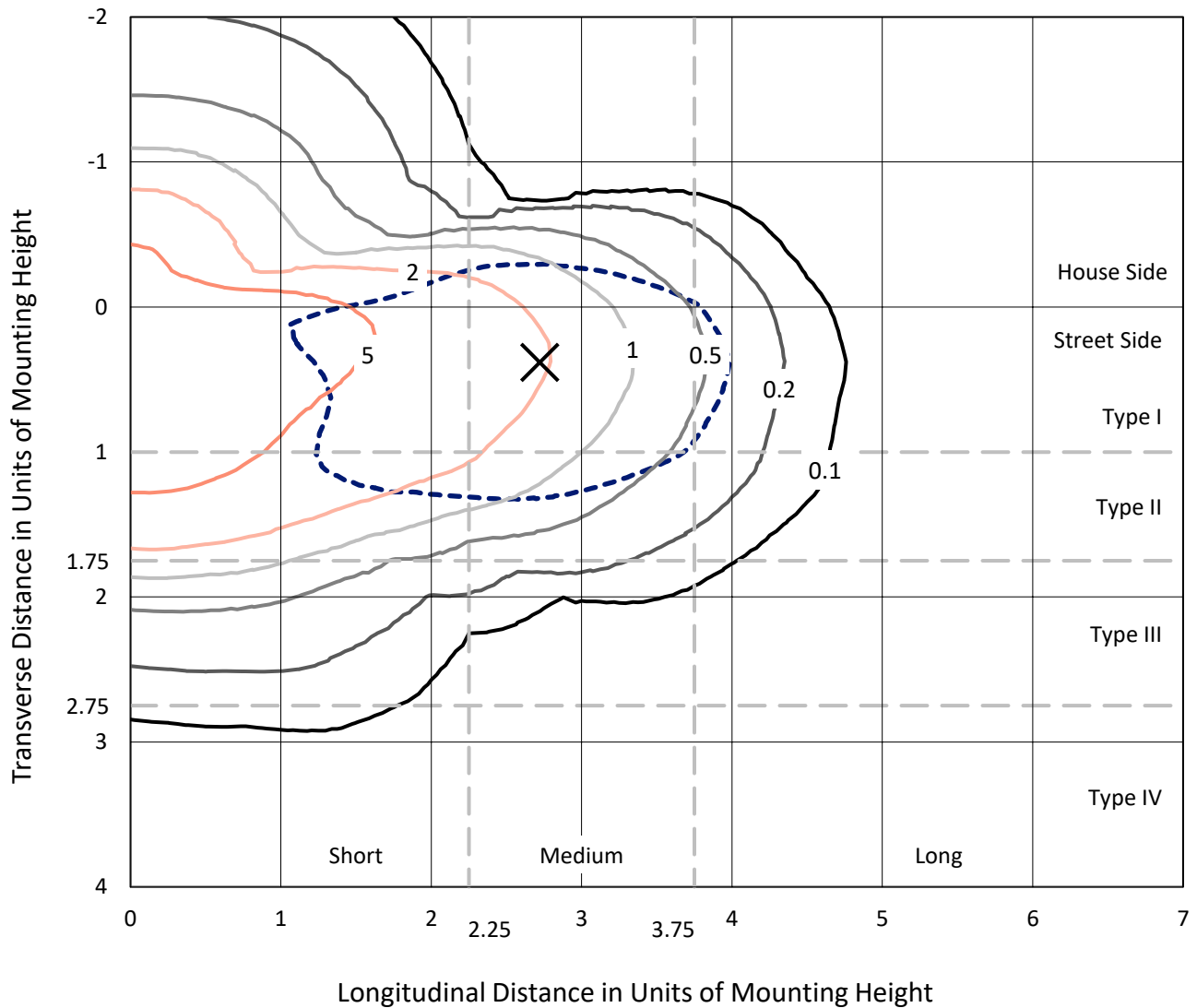
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943935
 CATALOG NUMBER: GALN-SB8C-927-U-T2

Iso-Footcandle Lines of Horizontal Illumination

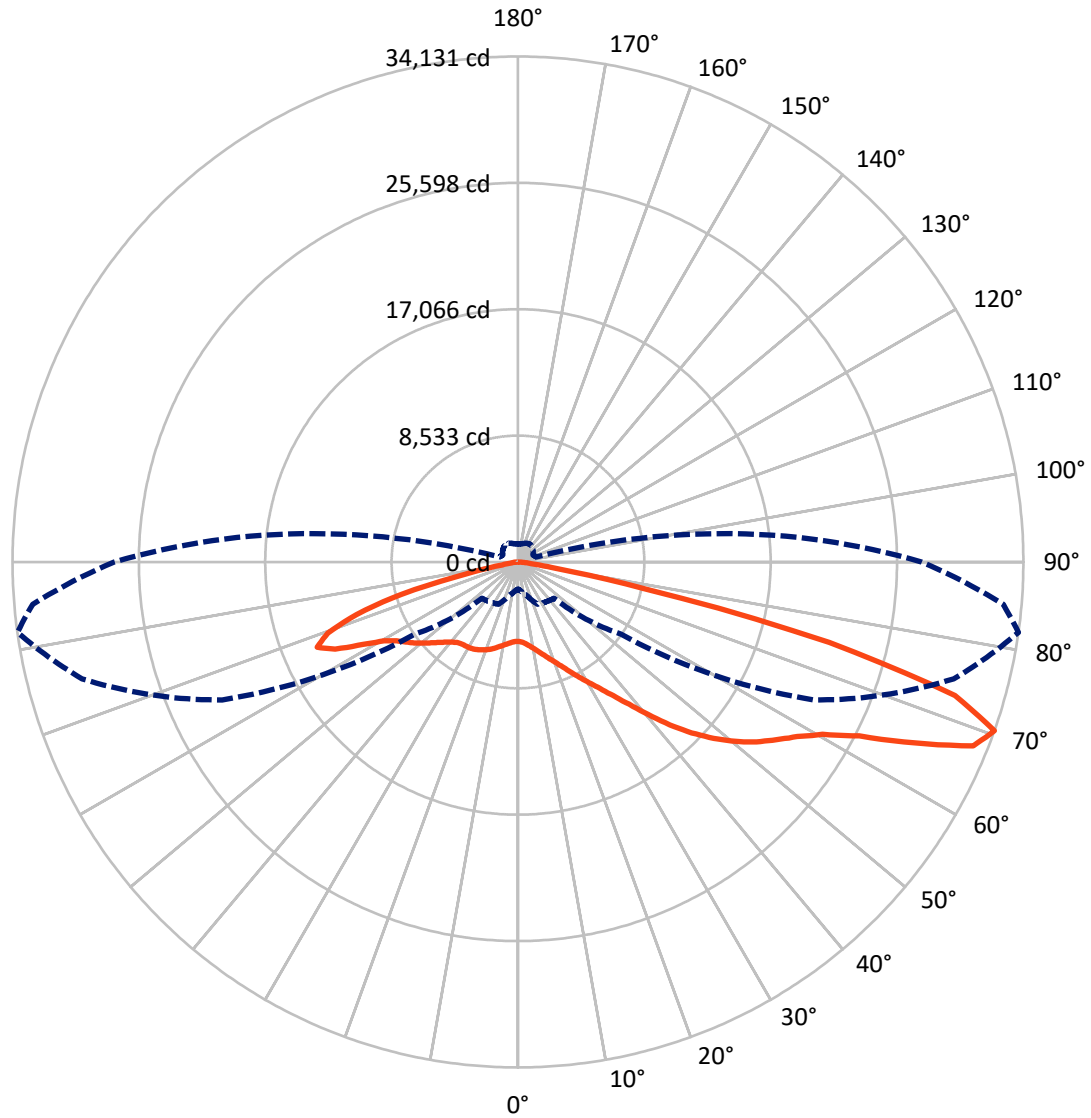
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P943935
CATALOG NUMBER: GALN-SB8C-927-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	9004.1	0.0	9004.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	27519.9	0.0	27519.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	36524.0	0.0	36524.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.6	1.4
10°-20°	1452.6	4.0
20°-30°	2430.1	6.7
30°-40°	3796.4	10.4
40°-50°	6046.2	16.6
50°-60°	8414.0	23.0
60°-70°	8801.4	24.1
70°-80°	4600.1	12.6
80°-90°	477.7	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°	36524.0	100.0
0°-180°	36524.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943935

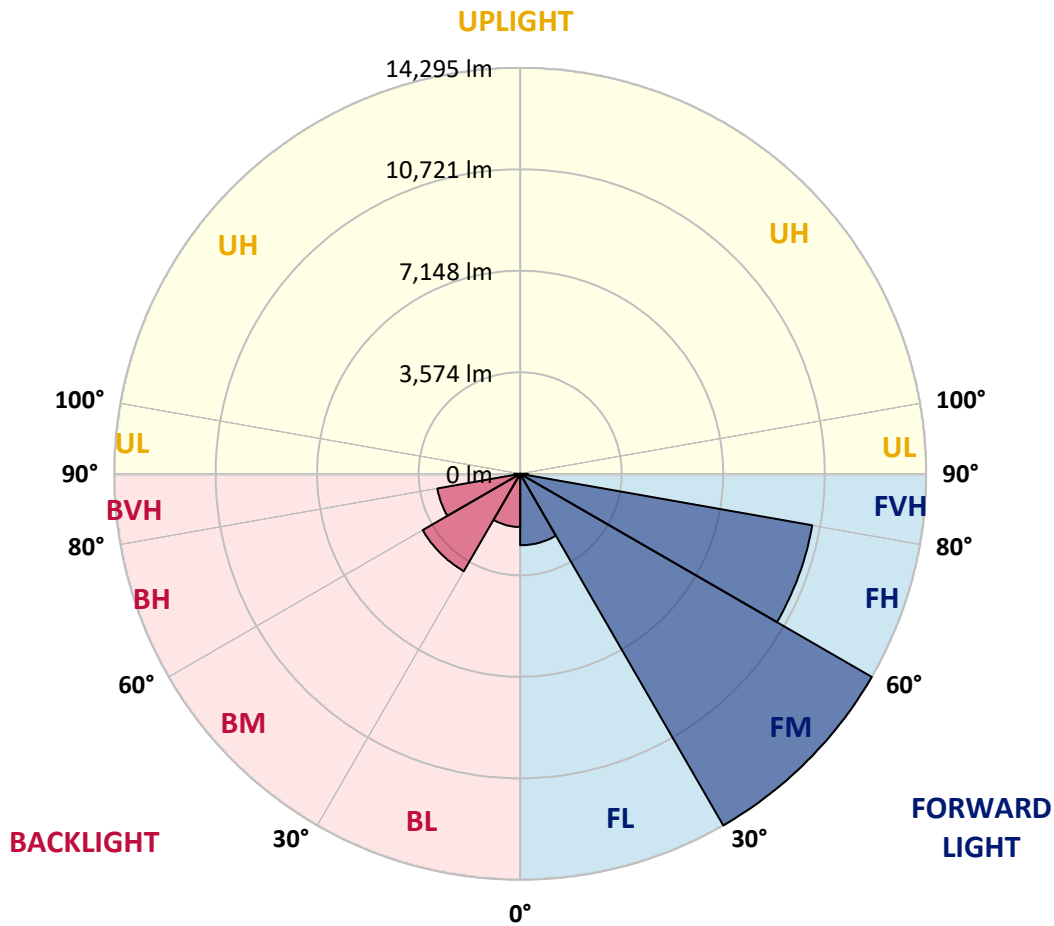
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2515.1	6.9			
FM (30°-60°)	14295.1	39.1			
FH (60°-80°)	10442.3	28.6			G4/12000
FVH (80°-90°)	267.4	0.7			G3/500
BL (0°-30°)	1873.2	5.1	B3/2500		
BM (30°-60°)	3961.4	10.8	B3/5000		
BH (60°-80°)	2959.2	8.1	B4/5000		G4/5000
BVH (80°-90°)	210.3	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



REPORT NUMBER: P943935

CATALOG NUMBER: GALN-SB8C-927-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5354.9	5354.9	5354.9	5354.9	5354.9	5354.9	5354.9	5354.9	5354.9	5354.9
2.5°	5482.8	5513.8	5504.1	5494.4	5494.4	5480.8	5478.9	5459.5	5444.0	5418.8
5°	5552.6	5585.5	5581.6	5589.4	5614.6	5620.4	5626.2	5614.6	5583.6	5552.6
7.5°	5490.5	5527.4	5539.0	5585.5	5663.0	5732.8	5785.1	5806.4	5777.4	5732.8
10°	5281.2	5321.9	5362.6	5473.1	5610.7	5775.4	5915.0	5998.3	5992.5	5949.9
12.5°	4856.8	4899.4	4986.6	5201.8	5453.7	5744.4	6004.1	6178.6	6238.6	6207.6
15°	4517.6	4554.5	4620.3	4841.3	5168.8	5610.7	6037.1	6376.2	6529.3	6511.9
17.5°	4507.9	4523.4	4564.1	4668.8	4920.7	5401.4	6002.2	6570.0	6862.7	6860.8
20°	4678.5	4684.3	4707.6	4728.9	4872.3	5242.5	5913.0	6730.9	7236.7	7236.7
22.5°	4914.9	4911.1	4934.3	4914.9	4984.7	5228.9	5856.8	6872.4	7653.4	7684.4
25°	5269.6	5250.2	5244.4	5199.8	5213.4	5354.9	5918.9	7033.2	8147.6	8211.6
27.5°	5742.5	5711.5	5690.2	5587.4	5552.6	5614.6	6108.8	7227.0	8698.0	8808.5
30°	6358.8	6302.6	6271.6	6093.3	5967.3	5977.0	6395.6	7484.8	9273.6	9451.9
32.5°	7199.9	7112.7	7029.4	6736.7	6506.1	6430.5	6765.8	7841.4	9897.7	10182.6
35°	8141.8	8072.0	7982.9	7531.3	7176.7	7002.2	7265.8	8339.5	10628.4	11079.9
37.5°	9048.8	8988.7	9031.4	8422.8	7965.4	7711.6	7920.9	9008.1	11529.6	12196.2
40°	9986.9	9940.3	9946.2	9364.7	8831.8	8546.9	8715.5	9847.3	12562.5	13523.8
42.5°	11006.3	10971.4	10855.1	10339.6	9740.7	9475.2	9630.2	10816.3	13671.1	15035.5
45°	12147.8	12126.5	12017.9	11426.8	10740.8	10442.3	10651.6	11886.2	14785.5	16458.1
47.5°	13134.3	13151.7	13138.1	12640.1	11928.8	11490.8	11740.8	13002.5	15822.4	17795.3
50°	13609.1	13700.2	13833.9	13678.9	13237.0	12791.2	12839.7	14080.0	16810.8	19049.2
52.5°	13361.0	13533.5	13897.9	14145.9	14316.5	14223.5	14093.6	15149.9	17741.1	20181.1
55°	12436.6	12678.8	13283.5	13882.4	14752.6	15428.9	15599.5	16336.0	18648.1	21177.2
57.5°	10752.4	11145.8	11688.5	12899.8	14364.9	16012.3	17355.4	17981.4	19609.3	22241.2
60°	7864.7	8391.8	9066.3	10868.7	13008.3	15700.3	18849.6	20508.6	20975.7	23619.2
62.5°	5033.2	5358.8	5978.9	7676.7	10136.1	14101.4	19307.0	23667.7	23291.7	25879.0
65°	3445.9	3655.2	4223.0	5176.6	6552.6	10496.6	18082.2	26036.0	26970.1	29460.5
67.5°	2504.0	2662.9	3147.4	3982.7	4269.6	6211.5	14031.6	25927.4	30545.9	33150.6
70°	1825.7	1938.1	2345.1	3147.4	3285.0	3455.6	8500.4	22039.7	30468.3	34131.3
72.5°	1352.8	1430.3	1703.6	2442.0	2659.0	2333.4	4207.5	16018.1	26181.3	30871.4
75°	978.7	1036.9	1238.4	1868.3	2128.0	1777.2	2098.9	9360.9	18262.4	21716.0
77.5°	748.1	792.7	924.5	1368.3	1703.6	1333.4	1302.4	4306.4	8659.3	8701.9
80°	600.8	629.9	701.6	963.2	1306.3	998.1	848.9	1738.4	2736.5	2316.0
82.5°	441.9	490.3	593.0	676.4	934.1	688.0	517.5	877.9	1040.7	895.4
85°	251.9	284.9	358.5	484.5	596.9	420.6	296.5	389.6	484.5	397.3
87.5°	89.2	116.3	126.0	189.9	259.7	174.4	114.3	112.4	158.9	118.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943935
 CATALOG NUMBER: GALN-SB8C-927-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5354.9	0°	5354.9	5354.9	5354.9	5354.9	5354.9	5354.9	5354.9	5354.9	5354.9	5354.9
5413.0	2.5°	5393.6	5383.9	5345.2	5292.9	5238.6	5186.3	5168.8	5132.0	5106.8	5093.2
5539.0	5°	5502.2	5471.2	5380.1	5263.8	5141.7	5009.9	4916.9	4831.6	4769.6	4711.4
5711.5	7.5°	5657.2	5602.9	5446.0	5242.5	5025.4	4806.4	4643.6	4519.6	4436.2	4382.0
5913.0	10°	5837.5	5754.1	5513.8	5209.5	4874.2	4560.3	4368.4	4261.8	4209.5	4180.4
6143.7	12.5°	6044.8	5926.6	5583.6	5133.9	4643.6	4285.1	4153.3	4122.3	4124.2	4126.1
6434.4	15°	6300.7	6135.9	5639.8	4969.2	4343.2	4073.8	4050.6	4100.9	4153.3	4178.5
6763.8	17.5°	6589.4	6356.9	5649.5	4697.9	4048.6	3938.1	4011.8	4120.3	4199.8	4234.7
7132.1	20°	6899.5	6581.7	5579.7	4314.1	3806.4	3827.7	3959.5	4099.0	4186.2	4230.8
7552.6	22.5°	7254.2	6822.0	5413.0	3911.0	3608.7	3707.5	3862.6	3998.2	4089.3	4133.9
8046.8	25°	7659.2	7091.4	5151.4	3571.9	3438.1	3571.9	3726.9	3839.3	3913.0	3953.7
8599.2	27.5°	8108.9	7372.4	4802.5	3302.5	3288.9	3432.3	3560.2	3647.4	3686.2	3717.2
9186.4	30°	8560.4	7628.2	4380.0	3099.0	3159.0	3294.7	3385.8	3424.6	3436.2	3442.0
9841.5	32.5°	9048.8	7849.2	3936.2	2930.4	3035.0	3161.0	3215.3	3232.7	3178.4	3141.6
10636.1	35°	9639.9	8085.6	3502.1	2796.6	2912.9	3021.4	3038.9	3023.4	2959.4	2883.8
11632.3	37.5°	10370.6	8380.2	3155.2	2701.7	2798.6	2870.3	2849.0	2845.1	2850.9	2761.7
12830.0	40°	11266.0	8763.9	2901.3	2628.0	2705.5	2721.0	2661.0	2693.9	2723.0	2587.3
14144.0	42.5°	12260.2	9227.1	2740.4	2577.6	2628.0	2591.2	2498.2	2535.0	2531.1	2352.8
15463.8	45°	13273.8	9731.0	2684.2	2540.8	2556.3	2482.7	2379.9	2389.6	2308.2	2147.4
16729.4	47.5°	14281.6	10271.7	2719.1	2509.8	2467.2	2383.8	2304.4	2261.7	2141.6	2021.4
17942.6	50°	15270.0	10839.6	2847.0	2447.8	2345.1	2296.6	2238.5	2162.9	2035.0	1932.3
19089.9	52.5°	16186.7	11411.3	2990.4	2345.1	2192.0	2221.0	2184.2	2097.0	1971.0	1866.4
20175.3	55°	17055.0	11983.1	3046.6	2203.6	2048.5	2155.1	2133.8	1973.0	1821.8	1736.5
21311.0	57.5°	18000.8	12671.1	2984.6	2023.3	1932.3	2079.5	1998.1	1819.8	1732.6	1668.7
22789.7	60°	19310.9	13750.6	2850.9	1800.5	1821.8	1967.1	1827.6	1753.9	1659.0	1587.3
25006.9	62.5°	21487.3	15764.2	2635.8	1579.5	1691.9	1800.5	1746.2	1672.6	1575.6	1505.9
28797.7	65°	24704.5	18562.8	2230.7	1407.0	1546.6	1637.7	1659.0	1585.3	1484.6	1410.9
32119.6	67.5°	27417.8	20318.7	1688.1	1263.6	1397.3	1505.9	1566.0	1494.2	1387.7	1315.9
32896.7	70°	27268.6	19043.4	1288.8	1122.1	1265.6	1376.0	1453.5	1397.3	1283.0	1215.2
29881.1	72.5°	24220.0	15930.9	1042.7	978.7	1131.8	1240.4	1333.4	1290.8	1174.5	1108.6
21890.5	75°	17793.4	11308.6	833.4	833.4	965.2	1098.9	1201.6	1174.5	1067.9	1021.4
9190.3	77.5°	7500.3	4744.4	653.1	691.9	802.4	943.8	1071.8	1081.4	988.4	1046.6
2430.3	80°	1994.3	1308.2	498.1	544.6	629.9	779.1	932.2	928.3	827.6	773.3
903.1	82.5°	759.7	515.5	354.7	383.7	455.4	596.9	738.4	761.7	660.9	571.7
354.7	85°	292.6	220.9	219.0	230.6	265.5	395.4	558.2	577.5	498.1	422.5
98.8	87.5°	75.6	65.9	81.4	77.5	122.1	211.2	319.8	331.4	304.3	176.4
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>
5354.9
5108.7
4734.7
4393.6
4188.2
4130.0
4176.5
4242.4
4242.4
4145.5
3965.3
3728.8
3455.6
3153.2
2887.7
2767.6
2591.2
2350.9
2153.2
2021.4
1924.5
1868.3
1728.8
1662.9
1583.4
1505.9
1414.8
1317.9
<i>1221.0</i>
1108.6
1007.8
949.7
719.0
571.7
436.1
251.9
0.0

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