

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: P944455

Luminaire Tested: **GALN-SB9B-930-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944455
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-930-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35353 lumens
Efficiency: N/A
Efficacy: 107.3 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

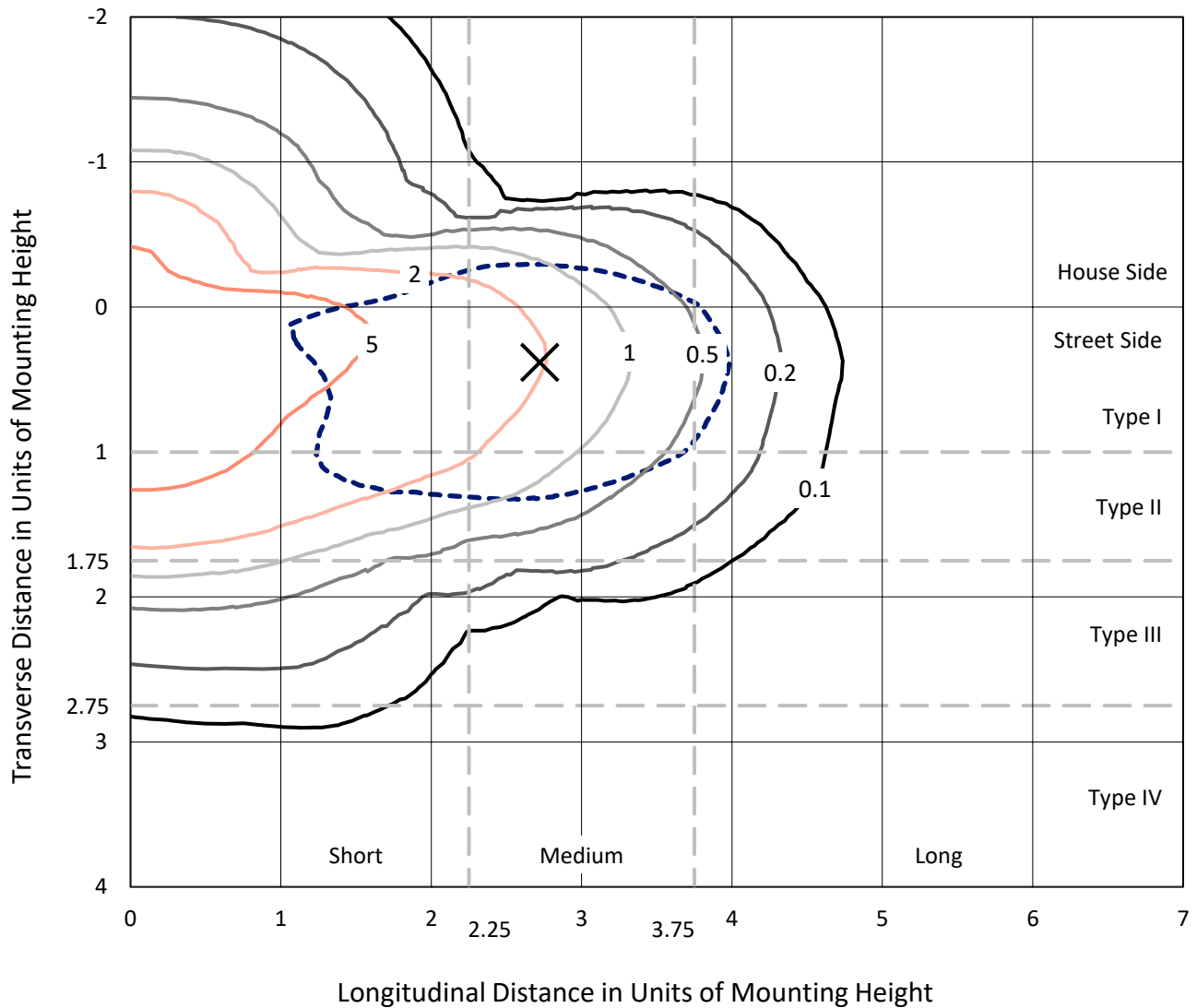
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

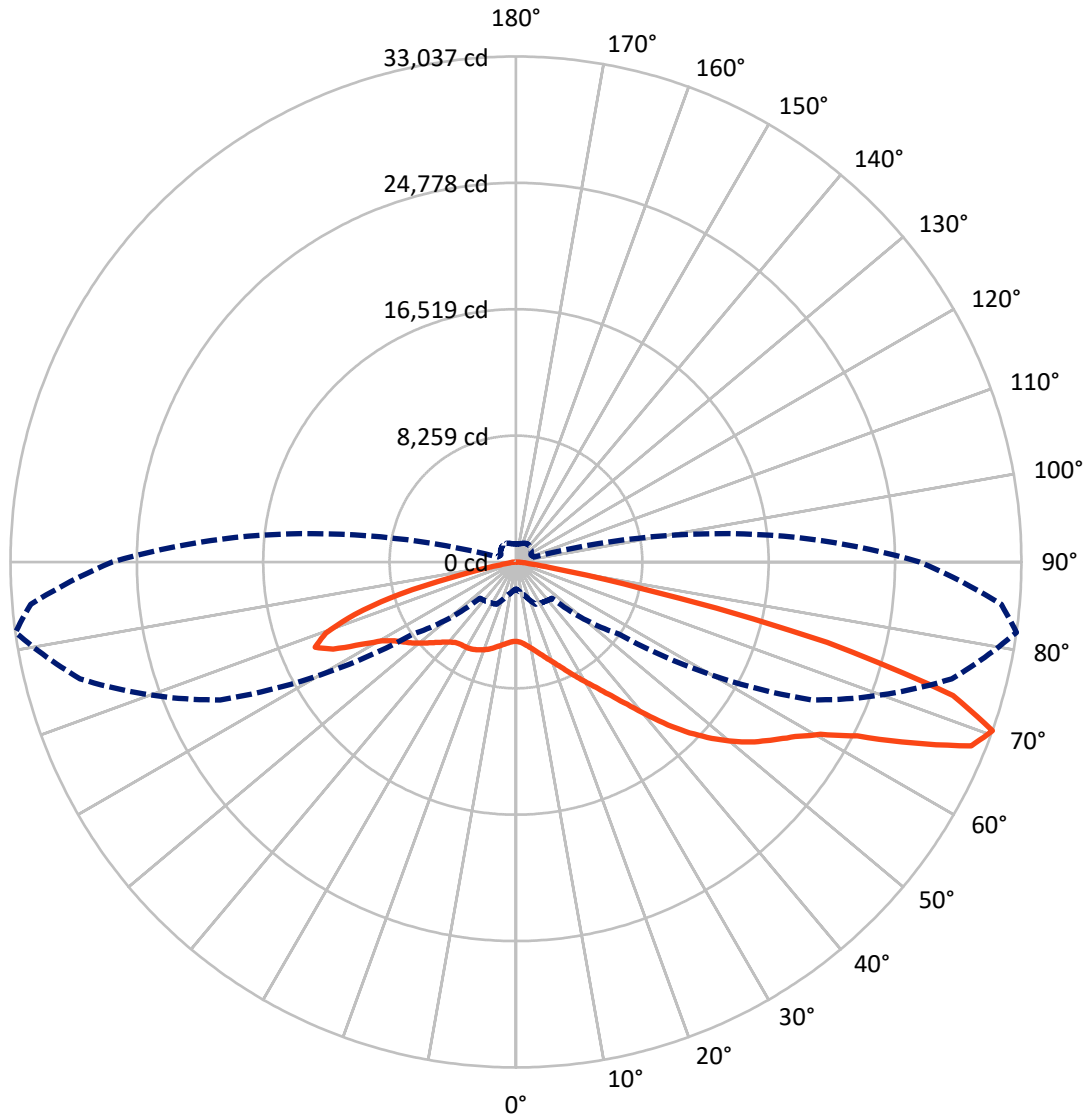
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	8715.4	0.0	8715.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	26637.6	0.0	26637.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	35353.0	0.0	35353.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.4	1.4
10°-20°	1406.0	4.0
20°-30°	2352.2	6.7
30°-40°	3674.7	10.4
40°-50°	5852.3	16.6
50°-60°	8144.2	23.0
60°-70°	8519.2	24.1
70°-80°	4452.6	12.6
80°-90°	462.4	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°	35353.0	100.0
0°-180°	35353.0	100.0

Coefficient of Utilization



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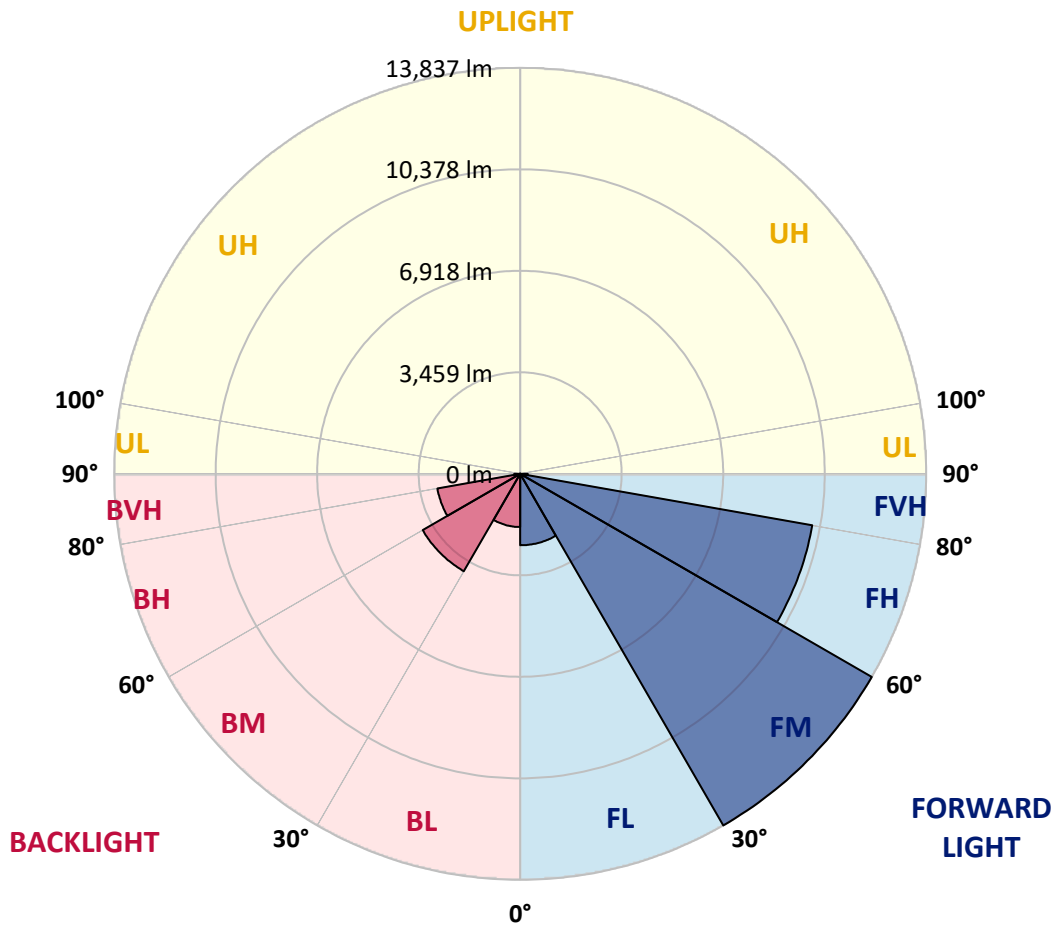
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2434.4	6.9			
FM (30°-60°)	13836.8	39.1			
FH (60°-80°)	10107.5	28.6			G4/12000
FVH (80°-90°)	258.8	0.7			G3/500
BL (0°-30°)	1813.1	5.1	B3/2500		
BM (30°-60°)	3834.4	10.8	B3/5000		
BH (60°-80°)	2864.3	8.1	B4/5000		G4/5000
BVH (80°-90°)	203.5	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5183.2	5183.2	5183.2	5183.2	5183.2	5183.2	5183.2	5183.2	5183.2	5183.2
2.5°	5307.0	5337.0	5327.6	5318.3	5318.3	5305.1	5303.3	5284.5	5269.5	5245.1
5°	5374.5	5406.4	5402.7	5410.2	5434.6	5440.2	5445.8	5434.6	5404.6	5374.5
7.5°	5314.5	5350.1	5361.4	5406.4	5481.5	5549.0	5599.6	5620.3	5592.1	5549.0
10°	5111.9	5151.3	5190.7	5297.6	5430.8	5590.3	5725.3	5806.0	5800.4	5759.1
12.5°	4701.1	4742.3	4826.8	5035.0	5278.9	5560.3	5811.6	5980.5	6038.6	6008.6
15°	4372.8	4408.4	4472.2	4686.1	5003.1	5430.8	5843.5	6171.8	6320.0	6303.1
17.5°	4363.4	4378.4	4417.8	4519.1	4763.0	5228.2	5809.8	6359.4	6642.7	6640.8
20°	4528.5	4534.1	4556.6	4577.3	4716.1	5074.4	5723.5	6515.1	7004.7	7004.7
22.5°	4757.4	4753.6	4776.1	4757.4	4824.9	5061.3	5669.1	6652.0	7408.0	7438.1
25°	5100.7	5081.9	5076.3	5033.1	5046.2	5183.2	5729.1	6807.7	7886.4	7948.3
27.5°	5558.4	5528.4	5507.7	5408.3	5374.5	5434.6	5912.9	6995.3	8419.2	8526.1
30°	6154.9	6100.5	6070.5	5897.9	5776.0	5785.4	6190.6	7244.8	8976.3	9148.9
32.5°	6969.1	6884.7	6804.0	6520.7	6297.5	6224.3	6548.9	7590.0	9580.4	9856.1
35°	7880.8	7813.2	7727.0	7289.9	6946.6	6777.7	7032.9	8072.1	10287.6	10724.7
37.5°	8758.7	8700.6	8741.8	8152.8	7710.1	7464.3	7666.9	8719.3	11159.9	11805.2
40°	9666.7	9621.6	9627.3	9064.5	8548.6	8272.8	8436.1	9531.6	12159.8	13090.2
42.5°	10653.4	10619.6	10507.1	10008.1	9428.4	9171.4	9321.5	10469.6	13232.8	14553.5
45°	11758.3	11737.7	11632.6	11060.5	10396.4	10107.5	10310.1	11505.1	14311.5	15930.4
47.5°	12713.2	12730.1	12716.9	12234.8	11546.3	11122.4	11364.4	12585.6	15315.1	17224.8
50°	13172.8	13260.9	13390.4	13240.3	12812.6	12381.1	12428.0	13628.6	16271.8	18438.5
52.5°	12932.7	13099.6	13452.3	13692.4	13857.5	13767.4	13641.8	14664.1	17172.3	19534.0
55°	12037.8	12272.3	12857.6	13437.3	14279.6	14934.3	15099.4	15812.2	18050.2	20498.3
57.5°	10407.7	10788.5	11313.7	12486.2	13904.4	15498.9	16798.9	17404.9	18980.6	21528.2
60°	7612.5	8122.8	8775.6	10520.2	12591.2	15196.9	18245.3	19851.1	20303.2	22861.9
62.5°	4871.8	5186.9	5787.2	7430.6	9811.1	13649.3	18688.0	22908.8	22544.9	25049.3
65°	3335.4	3538.0	4087.6	5010.6	6342.5	10160.0	17502.4	25201.2	26105.4	28516.0
67.5°	2423.7	2577.5	3046.5	3855.0	4132.7	6012.4	13581.7	25096.2	29566.5	32087.8
70°	1767.1	1875.9	2269.9	3046.5	3179.7	3344.8	8227.8	21333.1	29491.5	33037.0
72.5°	1309.4	1384.4	1648.9	2363.7	2573.8	2258.6	4072.6	15504.6	25341.9	29881.7
75°	947.3	1003.6	1198.7	1808.4	2059.8	1720.2	2031.6	9060.7	17676.9	21019.8
77.5°	724.1	767.3	894.8	1324.4	1648.9	1290.6	1260.6	4168.3	8381.7	8422.9
80°	581.5	609.7	679.1	932.3	1264.4	966.1	821.7	1682.7	2648.8	2241.7
82.5°	427.7	474.6	574.0	654.7	904.2	666.0	500.9	849.8	1007.4	866.7
85°	243.9	275.8	347.0	469.0	577.8	407.1	287.0	377.1	469.0	384.6
87.5°	86.3	112.6	121.9	183.8	251.4	168.8	110.7	108.8	153.8	114.4
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°
5183.2	0°	5183.2	5183.2	5183.2	5183.2	5183.2	5183.2	5183.2	5183.2	5183.2	5183.2
5239.5	2.5°	5220.7	5211.3	5173.8	5123.2	5070.6	5020.0	5003.1	4967.5	4943.1	4929.9
5361.4	5°	5325.8	5295.7	5207.6	5095.0	4976.8	4849.3	4759.2	4676.7	4616.7	4560.4
5528.4	7.5°	5475.8	5423.3	5271.4	5074.4	4864.3	4652.3	4494.7	4374.7	4294.0	4241.5
5723.5	10°	5650.3	5569.6	5337.0	5042.5	4718.0	4414.1	4228.3	4125.2	4074.5	4046.4
5946.7	12.5°	5851.0	5736.6	5404.6	4969.3	4494.7	4147.7	4020.1	3990.1	3992.0	3993.9
6228.1	15°	6098.6	5939.2	5459.0	4809.9	4204.0	3943.2	3920.7	3969.5	4020.1	4044.5
6547.0	17.5°	6378.2	6153.0	5468.3	4547.3	3918.8	3811.9	3883.2	3988.2	4065.1	4098.9
6903.4	20°	6678.3	6370.7	5400.8	4175.8	3684.3	3705.0	3832.5	3967.6	4052.0	4095.2
7310.5	22.5°	7021.6	6603.3	5239.5	3785.6	3493.0	3588.7	3738.7	3870.0	3958.2	4001.4
7788.9	25°	7413.7	6864.0	4986.2	3457.3	3327.9	3457.3	3607.4	3716.2	3787.5	3826.9
8323.5	27.5°	7848.9	7136.0	4648.6	3196.6	3183.5	3322.3	3446.1	3530.5	3568.0	3598.0
8891.9	30°	8286.0	7383.7	4239.6	2999.6	3057.8	3189.1	3277.2	3314.8	3326.0	3331.6
9526.0	32.5°	8758.7	7597.5	3810.0	2836.4	2937.7	3059.6	3112.2	3129.0	3076.5	3040.9
10295.1	35°	9330.9	7826.4	3389.8	2707.0	2819.5	2924.6	2941.5	2926.4	2864.5	2791.4
11259.3	37.5°	10038.1	8111.5	3054.0	2615.0	2708.8	2778.3	2757.6	2753.9	2759.5	2673.2
12418.7	40°	10904.8	8483.0	2808.3	2543.8	2618.8	2633.8	2575.7	2607.5	2635.7	2504.4
13690.5	42.5°	11867.1	8931.3	2652.6	2495.0	2543.8	2508.1	2418.1	2453.7	2450.0	2277.4
14968.0	45°	12848.2	9419.0	2598.2	2459.3	2474.4	2403.1	2303.6	2313.0	2234.2	2078.5
16193.0	47.5°	13823.7	9942.4	2631.9	2429.3	2388.1	2307.4	2230.5	2189.2	2072.9	1956.6
17367.4	50°	14780.4	10492.1	2755.7	2369.3	2269.9	2223.0	2166.7	2093.5	1969.7	1870.3
18477.9	52.5°	15667.8	11045.5	2894.6	2269.9	2121.7	2149.8	2114.2	2029.8	1907.8	1806.5
19528.4	55°	16508.2	11598.9	2949.0	2132.9	1982.9	2086.0	2065.4	1909.7	1763.4	1680.8
20627.7	57.5°	17423.6	12264.8	2888.9	1958.5	1870.3	2012.9	1934.1	1761.5	1677.1	1615.2
22059.0	60°	18691.8	13309.7	2759.5	1742.7	1763.4	1904.1	1769.0	1697.7	1605.8	1536.4
24205.1	62.5°	20798.4	15258.8	2551.3	1528.9	1637.7	1742.7	1690.2	1618.9	1525.1	1457.6
27874.4	65°	23912.5	17967.6	2159.2	1361.9	1497.0	1585.2	1605.8	1534.5	1437.0	1365.7
31089.8	67.5°	26538.8	19667.2	1633.9	1223.1	1352.5	1457.6	1515.8	1446.3	1343.2	1273.8
31842.0	70°	26394.3	18432.9	1247.5	1086.2	1225.0	1331.9	1406.9	1352.5	1241.9	1176.2
28923.1	72.5°	23443.5	15420.1	1009.2	947.3	1095.5	1200.6	1290.6	1249.4	1136.8	1073.0
21188.6	75°	17222.9	10946.0	806.6	806.6	934.2	1063.7	1163.1	1136.8	1033.6	988.6
8895.7	77.5°	7259.8	4592.3	632.2	669.7	776.6	913.6	1037.4	1046.8	956.7	1013.0
2352.4	80°	1930.3	1266.3	482.1	527.1	609.7	754.1	902.3	898.6	801.0	748.5
874.2	82.5°	735.4	499.0	343.3	371.4	440.8	577.8	714.7	737.2	639.7	553.4
343.3	85°	283.3	213.9	212.0	223.2	257.0	382.7	540.3	559.0	482.1	409.0
95.7	87.5°	73.2	63.8	78.8	75.0	118.2	204.5	309.5	320.8	294.5	170.7
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>
5183.2
4944.9
4582.9
4252.7
4053.9
3997.6
4042.6
4106.4
4106.4
4012.6
3838.2
3609.3
3344.8
3052.1
2795.1
2678.8
2508.1
2275.5
2084.2
1956.6
1862.8
1808.4
1673.3
1609.5
1532.6
1457.6
1369.4
1275.6
<i>1181.8</i>
1073.0
975.5
919.2
696.0
553.4
422.1
243.9
0.0

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