

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: P956610

Luminaire Tested: **GALN-SB9A-950-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-950-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28367 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

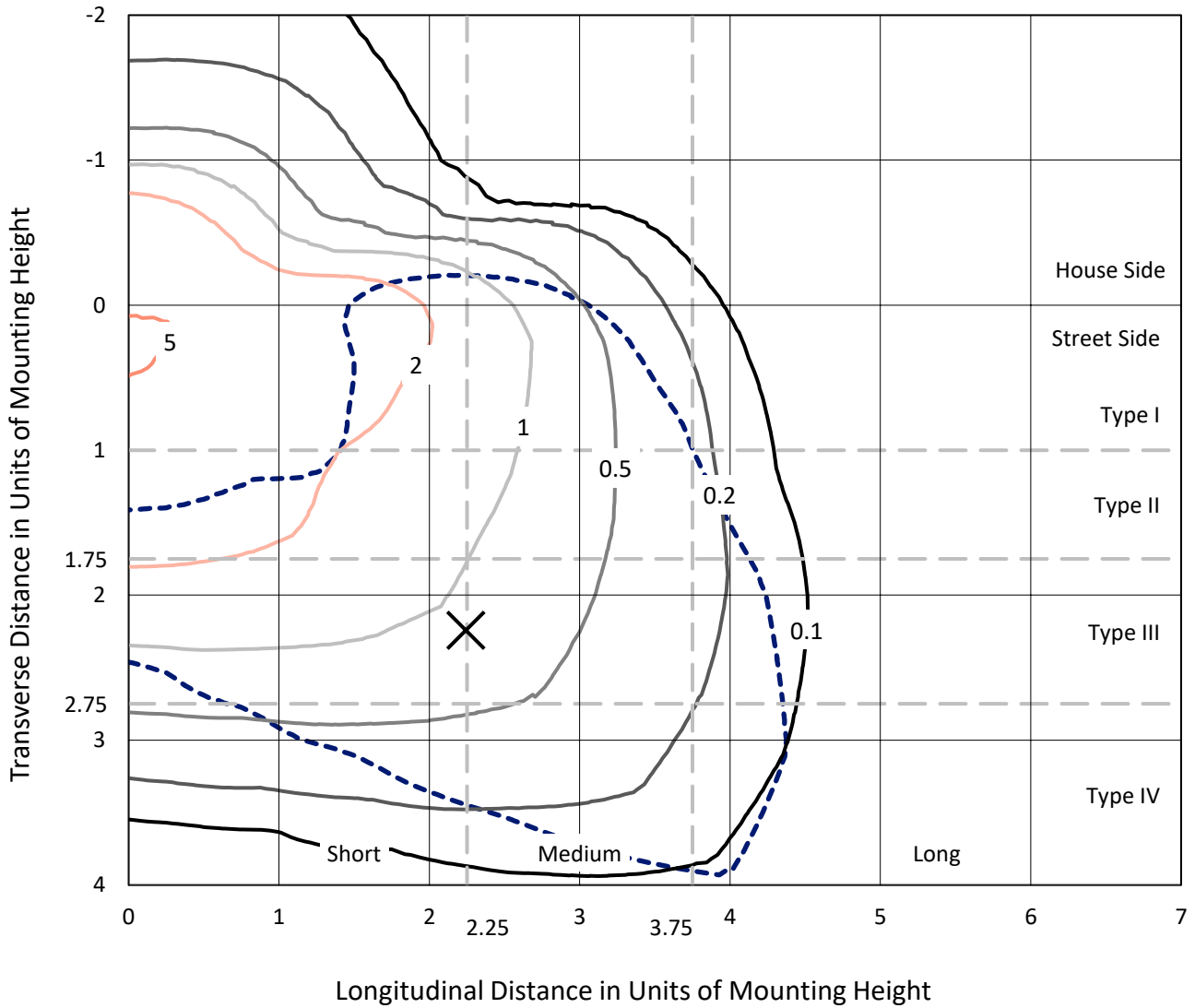
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

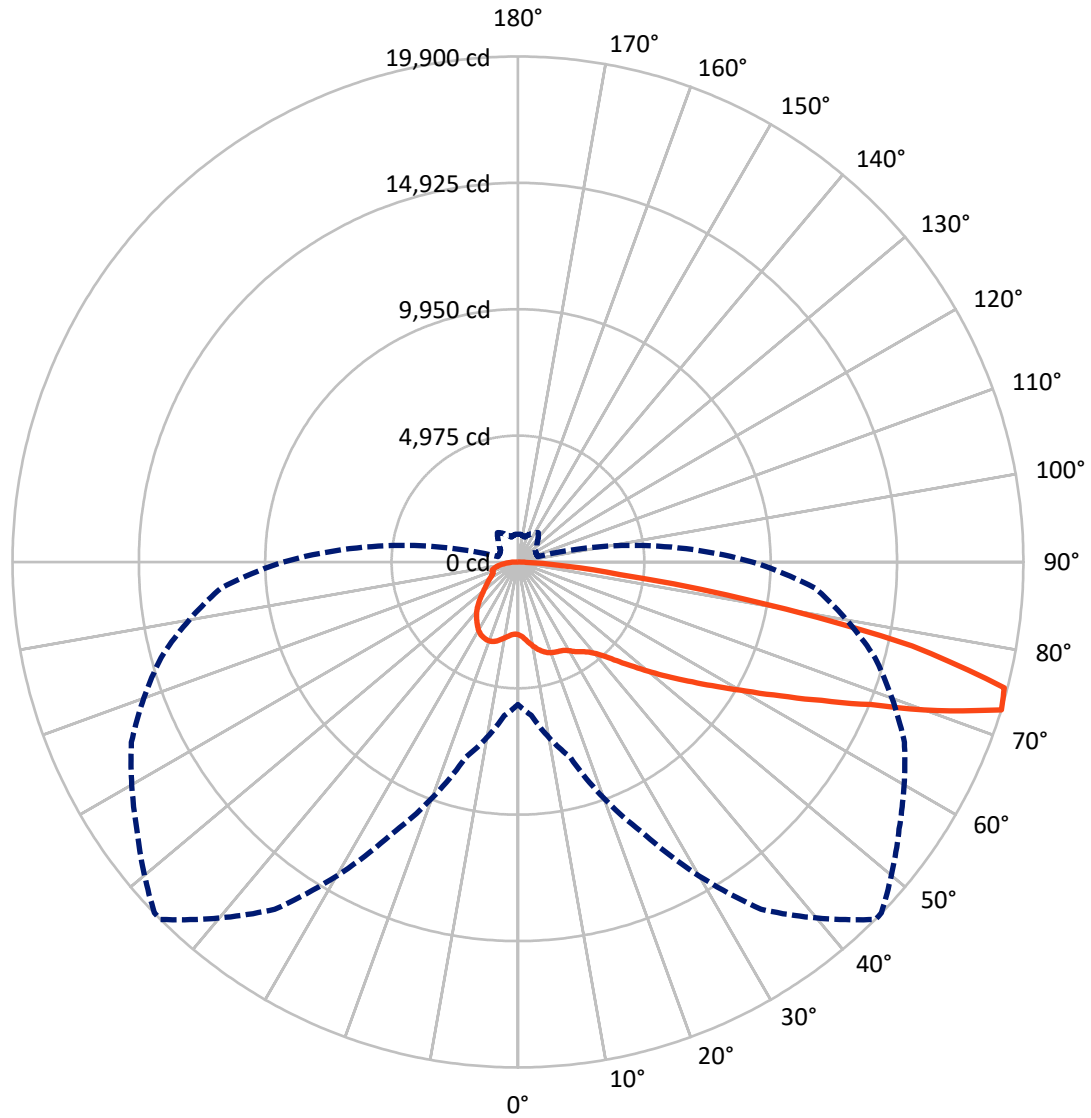
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6412.8	0.0	6412.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	21954.2	0.0	21954.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	28367.0	0.0	28367.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.3	1.0
10°-20°	971.1	3.4
20°-30°	1689.3	6.0
30°-40°	2421.7	8.5
40°-50°	3409.9	12.0
50°-60°	5223.0	18.4
60°-70°	7566.2	26.7
70°-80°	6042.1	21.3
80°-90°	752.5	2.7
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°	28367.0	100.0
0°-180°	28367.0	100.0



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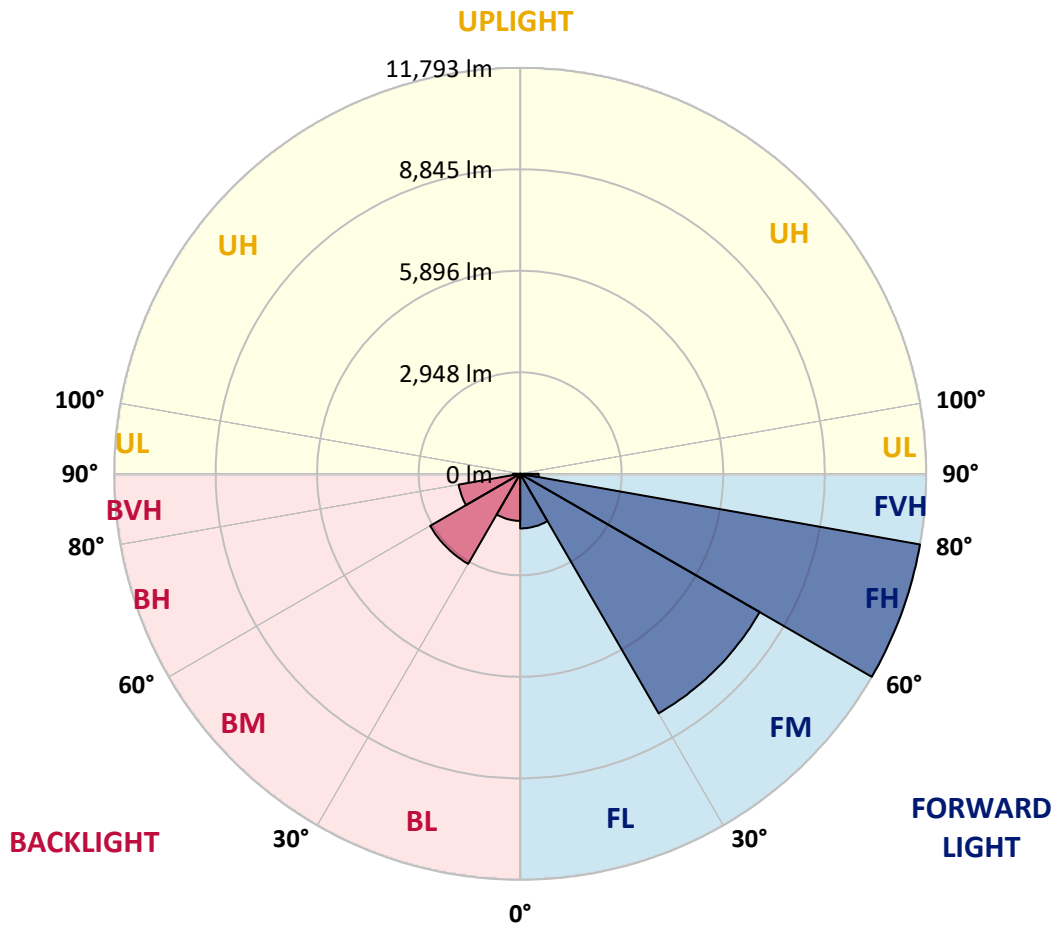
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1586.3	5.6			
FM (30°-60°)	8035.0	28.3			
FH (60°-80°)	11793.0	41.6			G4/12000
FVH (80°-90°)	539.9	1.9			G4/750
BL (0°-30°)	1365.3	4.8	B3/2500		
BM (30°-60°)	3019.5	10.6	B3/5000		
BH (60°-80°)	1815.3	6.4	B3/2500		G3/2500
BVH (80°-90°)	212.6	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2861.7	2861.7	2861.7	2861.7	2861.7	2861.7	2861.7	2861.7	2861.7	2861.7
2.5°	2973.8	2993.2	2975.2	2958.8	2951.3	2931.9	2930.4	2918.5	2911.0	2890.1
5°	3181.5	3206.9	3177.0	3144.1	3114.2	3066.4	3060.4	3026.1	2987.2	2942.4
7.5°	3416.1	3438.5	3404.1	3354.8	3302.5	3223.3	3221.8	3159.1	3097.8	3021.6
10°	3620.8	3650.7	3604.4	3537.1	3471.4	3381.7	3371.3	3299.5	3221.8	3123.2
12.5°	3801.6	3822.5	3777.7	3695.5	3619.3	3529.7	3516.2	3437.0	3350.3	3238.3
15°	3945.1	3972.0	3912.2	3824.0	3743.3	3655.2	3643.2	3571.5	3484.8	3366.8
17.5°	4039.2	4061.6	4000.4	3901.7	3824.0	3750.8	3741.8	3682.1	3605.9	3486.3
20°	4075.1	4099.0	4034.7	3934.6	3862.9	3806.1	3801.6	3758.3	3706.0	3596.9
22.5°	4111.0	4133.4	4049.7	3945.1	3882.3	3846.5	3845.0	3816.6	3795.6	3706.0
25°	4255.9	4261.9	4149.8	3998.9	3909.2	3877.8	3876.3	3874.8	3883.8	3813.6
27.5°	4381.4	4379.9	4284.3	4142.3	4003.4	3937.6	3936.1	3951.1	3979.5	3921.2
30°	4565.2	4548.8	4435.2	4287.3	4160.3	4058.7	4049.7	4036.2	4058.7	4012.3
32.5°	4955.3	4903.0	4719.2	4456.1	4290.3	4212.6	4200.6	4116.9	4125.9	4097.5
35°	5514.1	5445.4	5200.3	4775.9	4451.7	4341.1	4335.1	4229.0	4211.1	4185.7
37.5°	6179.1	6094.0	5808.5	5239.2	4729.6	4490.5	4481.6	4385.9	4312.7	4285.8
40°	6847.1	6739.5	6503.4	5804.1	5139.1	4740.1	4711.7	4566.7	4483.0	4438.2
42.5°	7495.7	7406.0	7204.3	6437.7	5644.2	5104.7	5041.9	4793.9	4731.1	4689.3
45°	8069.5	7988.8	7840.8	7114.6	6235.9	5600.8	5539.6	5134.6	5115.2	5115.2
47.5°	8535.7	8517.8	8360.9	7805.0	6933.8	6165.7	6059.6	5608.3	5660.6	5741.3
50°	9052.8	9003.5	8836.1	8484.9	7754.2	6812.7	6726.1	6189.6	6385.4	6606.5
52.5°	9528.0	9554.9	9368.1	9193.2	8680.7	7534.5	7382.1	6875.5	7298.4	7664.5
55°	10016.6	10018.1	9965.8	9941.9	9652.0	8332.5	8165.1	7700.4	8372.8	8827.1
57.5°	10475.4	10478.4	10556.1	10766.8	10778.7	9253.0	9063.2	8713.5	9566.8	10030.1
60°	10884.8	10905.8	11118.0	11611.1	11769.5	10308.0	10128.7	9910.5	10801.2	11267.4
62.5°	11022.3	11098.5	11570.7	12271.6	12748.3	11602.1	11425.8	11295.8	12098.2	12531.6
65°	10789.2	10964.0	11877.1	12817.0	13755.5	13139.8	12965.0	12823.0	13446.2	13854.1
67.5°	10216.9	10442.5	11859.2	13389.4	14977.9	14989.8	14826.9	14493.7	14891.2	15048.1
70°	8709.1	9046.8	10814.6	13603.1	16381.1	17519.7	17362.8	16505.1	16333.2	15574.1
72.5°	5611.3	6065.6	7963.4	11844.2	16693.4	19900.2	19891.3	18320.7	16789.0	14552.0
75°	2047.3	2325.2	3700.0	7434.4	14012.5	19779.2	19837.5	18009.9	15326.0	11240.5
77.5°	745.7	815.9	1207.4	2857.2	8617.9	15870.0	15991.0	14398.1	10908.7	5641.2
80°	391.5	430.4	618.7	1108.8	3692.5	9424.9	9614.6	8556.6	5127.1	1699.1
82.5°	216.7	234.6	346.7	602.2	1663.2	4030.3	4143.8	3380.2	1803.7	720.3
85°	116.6	124.0	162.9	328.8	812.9	1397.2	1428.6	1010.2	718.8	422.9
87.5°	34.4	41.8	53.8	104.6	318.3	313.8	321.3	200.2	283.9	213.7
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°
2861.7	0°	2861.7	2861.7	2861.7	2861.7	2861.7	2861.7	2861.7	2861.7	2861.7	2861.7
2884.1	2.5°	2875.1	2870.6	2854.2	2846.7	2837.8	2836.3	2843.7	2845.2	2846.7	2848.2
2917.0	5°	2902.0	2887.1	2872.1	2863.2	2866.2	2867.7	2882.6	2893.1	2900.5	2906.5
2978.2	7.5°	2954.3	2942.4	2917.0	2915.5	2920.0	2933.4	2952.8	2976.7	2990.2	3000.7
3057.4	10°	3032.0	3009.6	2979.7	2984.2	2993.2	3012.6	3053.0	3072.4	3094.8	3114.2
3154.6	12.5°	3111.2	3091.8	3057.4	3060.4	3075.4	3109.7	3148.6	3172.5	3187.4	3202.4
3259.2	15°	3214.3	3180.0	3142.6	3142.6	3169.5	3206.9	3224.8	3244.2	3253.2	3269.6
3371.3	17.5°	3320.4	3275.6	3226.3	3223.3	3256.2	3274.1	3284.6	3287.6	3290.6	3308.5
3480.3	20°	3426.5	3377.2	3307.0	3301.0	3308.5	3305.5	3304.0	3301.0	3305.5	3327.9
3592.4	22.5°	3531.1	3474.4	3377.2	3350.3	3329.4	3301.0	3299.5	3298.0	3301.0	3323.4
3713.5	25°	3653.7	3584.9	3454.9	3374.2	3304.0	3265.2	3269.6	3271.1	3274.1	3292.1
3839.0	27.5°	3786.7	3710.5	3526.7	3366.8	3239.7	3212.9	3205.4	3209.9	3220.3	3248.7
3964.5	30°	3919.7	3830.0	3592.4	3336.9	3159.1	3121.7	3097.8	3108.2	3141.1	3169.5
4073.6	32.5°	4040.7	3951.1	3644.7	3271.1	3055.9	2997.7	2966.3	2979.7	3012.6	3023.1
4194.6	35°	4182.7	4081.1	3667.1	3166.5	2943.9	2854.2	2812.4	2792.9	2809.4	2798.9
4336.6	37.5°	4341.1	4235.0	3664.1	3029.0	2812.4	2709.3	2651.0	2577.8	2543.4	2507.5
4545.8	40°	4575.7	4423.3	3628.3	2863.2	2649.5	2555.3	2450.7	2326.7	2249.0	2178.8
4883.5	42.5°	4895.5	4684.8	3562.5	2680.9	2465.7	2377.5	2235.5	2090.6	1968.1	1851.5
5396.1	45°	5372.2	5027.0	3480.3	2486.6	2266.9	2180.3	2026.3	1863.5	1724.5	1575.0
6123.8	47.5°	6059.6	5487.2	3402.6	2265.4	2057.7	1978.5	1839.5	1688.6	1524.2	1379.3
7175.9	50°	7004.0	6147.8	3330.9	2050.2	1851.5	1791.7	1681.1	1527.2	1361.4	1244.8
8408.7	52.5°	8205.5	7045.9	3301.0	1842.5	1658.7	1636.3	1548.1	1404.7	1247.8	1149.2
9846.3	55°	9584.8	8120.3	3301.0	1643.8	1489.9	1497.3	1436.1	1303.1	1167.1	1078.9
11328.7	57.5°	10992.4	9208.2	3241.2	1460.0	1346.4	1377.8	1338.9	1222.4	1099.8	1008.7
12887.3	60°	12289.5	10119.7	2999.2	1292.6	1219.4	1268.7	1243.3	1143.2	993.7	917.5
14190.3	62.5°	13286.3	10633.8	2532.9	1159.6	1114.8	1171.6	1158.1	1038.6	974.3	942.9
15260.3	65°	13785.4	10550.1	1936.7	1041.6	1026.6	1114.8	1086.4	1081.9	1031.1	995.2
15608.5	67.5°	13479.0	9829.8	1404.7	954.9	975.8	1062.5	1171.6	1189.5	1095.4	1025.1
14628.2	70°	12135.6	8526.8	1046.0	872.7	911.6	1064.0	1335.9	1244.8	1074.4	992.2
11732.1	72.5°	9232.1	6358.5	811.4	786.0	827.9	1071.4	1409.2	1219.4	1014.7	1096.9
7308.9	75°	5279.5	3490.8	651.5	679.9	723.3	1001.2	1371.8	1153.6	968.3	1007.2
2896.0	77.5°	2012.9	1341.9	538.0	575.3	581.3	874.2	1312.0	1149.2	922.0	899.6
868.2	80°	697.9	524.5	445.3	457.3	449.8	777.1	1258.2	999.7	754.6	675.4
358.6	82.5°	285.4	261.5	352.7	337.7	319.8	603.7	1016.2	817.4	617.2	545.4
173.3	85°	124.0	165.9	233.1	204.7	185.3	418.4	814.4	691.9	521.5	449.8
56.8	87.5°	25.4	62.8	98.6	92.6	95.6	279.4	578.3	491.6	369.1	276.5
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

180°
2861.7
2854.2
2909.5
3003.6
3109.7
3208.4
3275.6
3314.5
3336.9
3338.4
3316.0
3277.1
3200.9
3060.4
2831.8
2529.9
2183.2
1841.0
1557.1
1362.8
1237.3
1141.7
1070.0
993.7
905.6
932.5
983.3
1013.2
978.8
1087.9
1007.2
820.4
653.0
539.5
448.3
216.7
0.0

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