

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: P944315

Luminaire Tested: **GALN-SB9A-950-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944315
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-SB9A-950-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28163 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

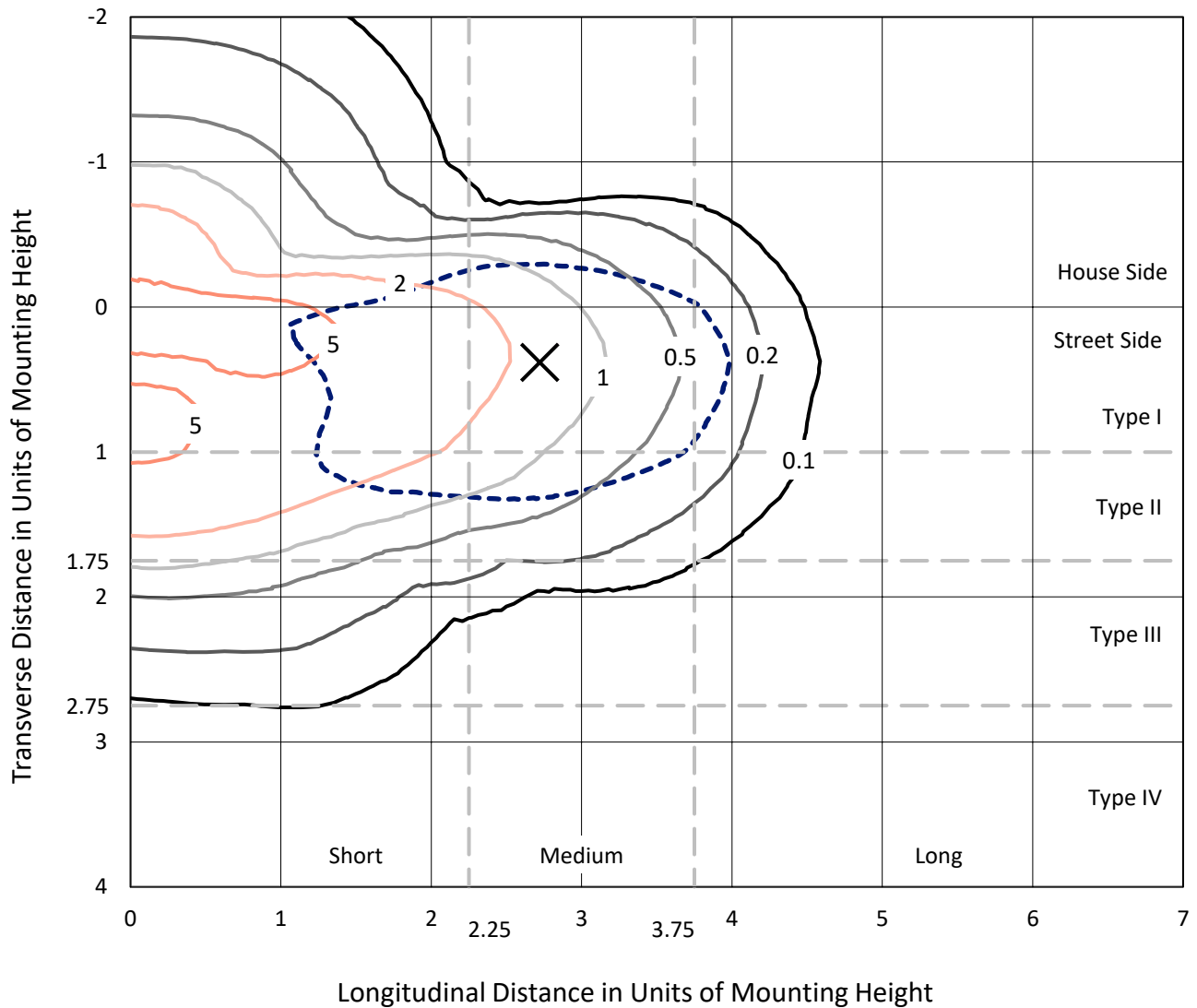
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

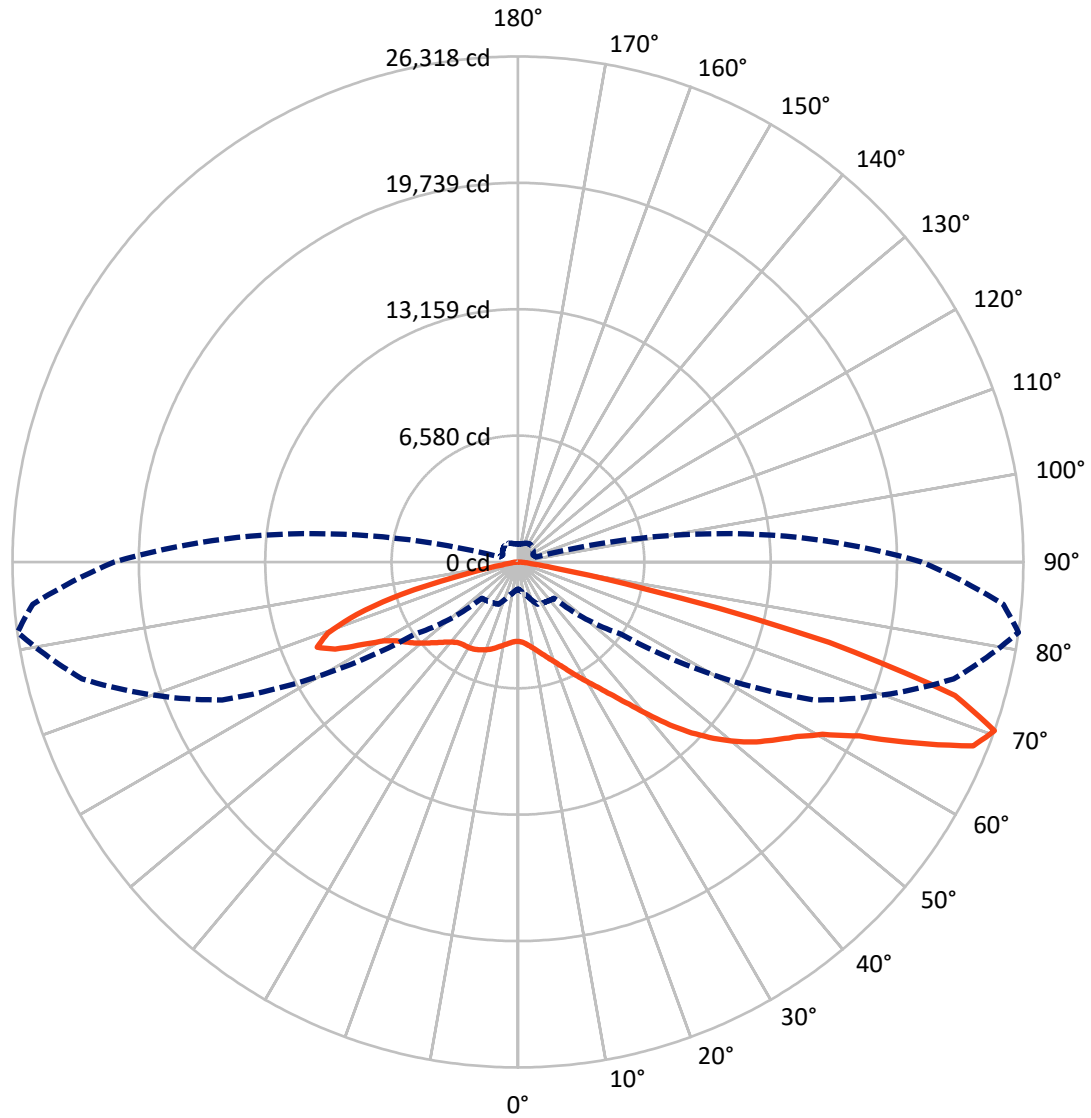
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	6942.9	0.0	6942.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	21220.1	0.0	21220.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	28163.0	0.0	28163.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.9	1.4
10°-20°	1120.1	4.0
20°-30°	1873.8	6.7
30°-40°	2927.3	10.4
40°-50°	4662.1	16.6
50°-60°	6487.9	23.0
60°-70°	6786.6	24.1
70°-80°	3547.1	12.6
80°-90°	368.3	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°	28163.0	100.0
0°-180°	28163.0	100.0

Coefficient of Utilization



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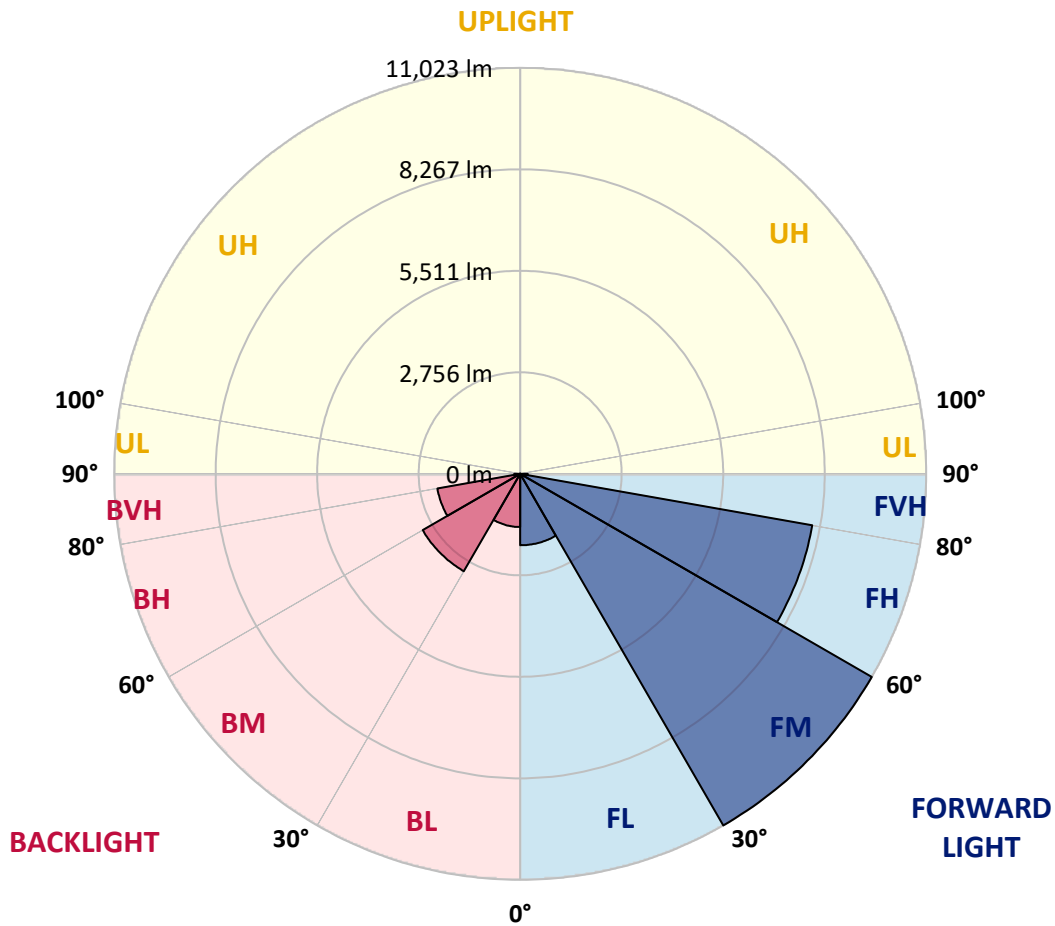
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1939.3	6.9			
FM (30°-60°)	11022.7	39.1			
FH (60°-80°)	8051.9	28.6			G4/12000
FVH (80°-90°)	206.2	0.7			G2/225
BL (0°-30°)	1444.4	5.1	B3/2500		
BM (30°-60°)	3054.6	10.8	B3/5000		
BH (60°-80°)	2281.8	8.1	B3/2500		G3/2500
BVH (80°-90°)	162.1	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4129.0	4129.0	4129.0	4129.0	4129.0	4129.0	4129.0	4129.0	4129.0	4129.0
2.5°	4227.7	4251.6	4244.1	4236.6	4236.6	4226.2	4224.7	4209.7	4197.8	4178.4
5°	4281.5	4306.9	4303.9	4309.9	4329.3	4333.8	4338.3	4329.3	4305.4	4281.5
7.5°	4233.7	4262.1	4271.0	4306.9	4366.7	4420.5	4460.8	4477.2	4454.8	4420.5
10°	4072.3	4103.6	4135.0	4220.2	4326.3	4453.3	4560.9	4625.2	4620.7	4587.8
12.5°	3745.0	3777.9	3845.1	4011.0	4205.3	4429.4	4629.7	4764.2	4810.5	4786.6
15°	3483.5	3511.9	3562.7	3733.0	3985.6	4326.3	4655.1	4916.6	5034.7	5021.2
17.5°	3476.0	3487.9	3519.3	3600.0	3794.3	4164.9	4628.2	5066.0	5291.7	5290.2
20°	3607.5	3612.0	3629.9	3646.4	3756.9	4042.4	4559.4	5190.1	5580.1	5580.1
22.5°	3789.8	3786.8	3804.8	3789.8	3843.6	4031.9	4516.1	5299.2	5901.4	5925.3
25°	4063.3	4048.3	4043.9	4009.5	4020.0	4129.0	4563.9	5423.2	6282.5	6331.8
27.5°	4427.9	4404.0	4387.6	4308.4	4281.5	4329.3	4710.4	5572.6	6706.9	6792.1
30°	4903.2	4859.8	4835.9	4698.4	4601.3	4608.8	4931.5	5771.4	7150.7	7288.2
32.5°	5551.7	5484.5	5420.2	5194.6	5016.7	4958.4	5217.0	6046.4	7631.9	7851.6
35°	6278.0	6224.2	6155.5	5807.3	5533.8	5399.3	5602.5	6430.4	8195.3	8543.5
37.5°	6977.4	6931.1	6963.9	6494.7	6142.0	5946.2	6107.6	6946.0	8890.2	9404.3
40°	7700.7	7664.8	7669.3	7221.0	6810.0	6590.3	6720.4	7593.1	9686.7	10428.0
42.5°	8486.7	8459.8	8370.2	7972.7	7510.9	7306.2	7425.7	8340.3	10541.6	11593.6
45°	9366.9	9350.5	9266.8	8811.0	8282.0	8051.9	8213.3	9165.2	11400.8	12690.5
47.5°	10127.6	10141.0	10130.6	9746.5	9198.1	8860.3	9053.1	10026.0	12200.3	13721.6
50°	10493.7	10564.0	10667.1	10547.5	10206.8	9863.1	9900.4	10856.9	12962.5	14688.5
52.5°	10302.4	10435.4	10716.4	10907.7	11039.2	10967.5	10867.3	11681.8	13679.8	15561.3
55°	9589.6	9776.4	10242.7	10704.4	11375.4	11897.0	12028.5	12596.4	14379.2	16329.4
57.5°	8291.0	8594.3	9012.8	9946.8	11076.5	12346.8	13382.4	13865.1	15120.4	17149.8
60°	6064.3	6470.8	6990.8	8380.6	10030.5	12106.2	14534.6	15813.8	16174.0	18212.3
62.5°	3881.0	4132.0	4610.2	5919.3	7815.8	10873.3	14887.3	18249.7	17959.8	19954.8
65°	2657.1	2818.5	3256.3	3991.6	5052.6	8093.7	13942.8	20075.9	20796.2	22716.5
67.5°	1930.8	2053.3	2426.9	3071.0	3292.2	4789.6	10819.5	19992.2	23553.4	25561.8
70°	1407.7	1494.4	1808.2	2426.9	2533.0	2664.5	6554.5	16994.4	23493.6	26318.0
72.5°	1043.1	1102.9	1313.6	1883.0	2050.3	1799.3	3244.4	12351.3	20188.0	23804.4
75°	754.7	799.5	954.9	1440.6	1640.9	1370.4	1618.4	7218.0	14081.8	16744.8
77.5°	576.8	611.2	712.8	1055.1	1313.6	1028.2	1004.2	3320.6	6677.0	6709.9
80°	463.3	485.7	541.0	742.7	1007.2	769.6	654.6	1340.5	2110.1	1785.8
82.5°	340.7	378.1	457.3	521.5	720.3	530.5	399.0	677.0	802.5	690.4
85°	194.3	219.7	276.5	373.6	460.3	324.3	228.6	300.4	373.6	306.4
87.5°	68.7	89.7	97.1	146.5	200.3	134.5	88.2	86.7	122.5	91.2
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°
4129.0	0°	4129.0	4129.0	4129.0	4129.0	4129.0	4129.0	4129.0	4129.0	4129.0	4129.0
4173.9	2.5°	4158.9	4151.5	4121.6	4081.2	4039.4	3999.0	3985.6	3957.2	3937.8	3927.3
4271.0	5°	4242.6	4218.7	4148.5	4058.8	3964.7	3863.0	3791.3	3725.6	3677.7	3632.9
4404.0	7.5°	4362.2	4320.3	4199.3	4042.4	3875.0	3706.1	3580.6	3485.0	3420.7	3378.9
4559.4	10°	4501.2	4436.9	4251.6	4017.0	3758.4	3516.3	3368.4	3286.2	3245.9	3223.4
4737.3	12.5°	4661.1	4569.9	4305.4	3958.7	3580.6	3304.1	3202.5	3178.6	3180.1	3181.6
4961.4	15°	4858.3	4731.3	4348.7	3831.7	3349.0	3141.2	3123.3	3162.2	3202.5	3221.9
5215.5	17.5°	5081.0	4901.7	4356.2	3622.4	3121.8	3036.6	3093.4	3177.1	3238.4	3265.3
5499.4	20°	5320.1	5075.0	4302.4	3326.6	2935.0	2951.5	3053.1	3160.7	3227.9	3262.3
5823.7	22.5°	5593.6	5260.3	4173.9	3015.7	2782.6	2858.8	2978.4	3083.0	3153.2	3187.6
6204.8	25°	5905.9	5468.0	3972.1	2754.2	2651.1	2754.2	2873.7	2960.4	3017.2	3048.6
6630.7	27.5°	6252.6	5684.7	3703.1	2546.5	2536.0	2646.6	2745.2	2812.5	2842.4	2866.3
7083.5	30°	6600.8	5882.0	3377.4	2389.6	2435.9	2540.5	2610.7	2640.6	2649.6	2654.1
7588.6	32.5°	6977.4	6052.4	3035.1	2259.5	2340.2	2437.4	2479.2	2492.7	2450.8	2422.4
8201.3	35°	7433.2	6234.7	2700.4	2156.4	2246.1	2329.8	2343.2	2331.3	2282.0	2223.7
8969.4	37.5°	7996.6	6461.8	2432.9	2083.2	2157.9	2213.2	2196.8	2193.8	2198.3	2129.5
9893.0	40°	8687.0	6757.7	2237.1	2026.4	2086.2	2098.1	2051.8	2077.2	2099.6	1995.0
10906.2	42.5°	9453.6	7114.9	2113.1	1987.6	2026.4	1998.0	1926.3	1954.7	1951.7	1814.2
11923.9	45°	10235.2	7503.4	2069.8	1959.2	1971.1	1914.3	1835.1	1842.6	1779.8	1655.8
12899.7	47.5°	11012.3	7920.4	2096.7	1935.3	1902.4	1838.1	1776.9	1744.0	1651.3	1558.7
13835.2	50°	11774.4	8358.2	2195.3	1887.4	1808.2	1770.9	1726.0	1667.8	1569.1	1489.9
14719.9	52.5°	12481.3	8799.1	2305.9	1808.2	1690.2	1712.6	1684.2	1616.9	1519.8	1439.1
15556.8	55°	13150.8	9239.9	2349.2	1699.1	1579.6	1661.8	1645.3	1521.3	1404.7	1339.0
16432.5	57.5°	13880.1	9770.4	2301.4	1560.2	1489.9	1603.5	1540.7	1403.2	1336.0	1286.7
17572.7	60°	14890.3	10602.8	2198.3	1388.3	1404.7	1516.8	1409.2	1352.4	1279.2	1223.9
19282.3	62.5°	16568.5	12155.5	2032.4	1217.9	1304.6	1388.3	1346.5	1289.7	1215.0	1161.2
22205.4	65°	19049.2	14313.4	1720.1	1084.9	1192.5	1262.8	1279.2	1222.4	1144.7	1087.9
24766.8	67.5°	21141.4	15667.4	1301.6	974.4	1077.5	1161.2	1207.5	1152.2	1070.0	1014.7
25366.1	70°	21026.3	14684.0	993.8	865.3	975.8	1061.0	1120.8	1077.5	989.3	937.0
23040.8	72.5°	18675.6	12284.0	804.0	754.7	872.7	956.4	1028.2	995.3	905.6	854.8
16879.3	75°	13720.2	8719.9	642.6	642.6	744.2	847.3	926.5	905.6	823.4	787.6
7086.5	77.5°	5783.4	3658.3	503.6	533.5	618.7	727.8	826.4	833.9	762.1	807.0
1874.0	80°	1537.7	1008.7	384.1	419.9	485.7	600.8	718.8	715.8	638.1	596.3
696.4	82.5°	585.8	397.5	273.5	295.9	351.2	460.3	569.4	587.3	509.6	440.9
273.5	85°	225.7	170.4	168.9	177.8	204.7	304.9	430.4	445.3	384.1	325.8
76.2	87.5°	58.3	50.8	62.8	59.8	94.1	162.9	246.6	255.5	234.6	136.0
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>
4129.0
3939.3
3650.8
3387.8
3229.4
3184.6
3220.4
3271.3
3271.3
3196.5
3057.6
2875.2
2664.5
2431.4
2226.7
2134.0
1998.0
1812.7
1660.3
1558.7
1483.9
1440.6
1333.0
1282.2
1220.9
1161.2
1090.9
1016.2
941.5
854.8
777.1
732.3
554.4
440.9
336.2
194.3
0.0

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