

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: P954823

Luminaire Tested: **GALN-SB7D-950-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-950-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51682 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

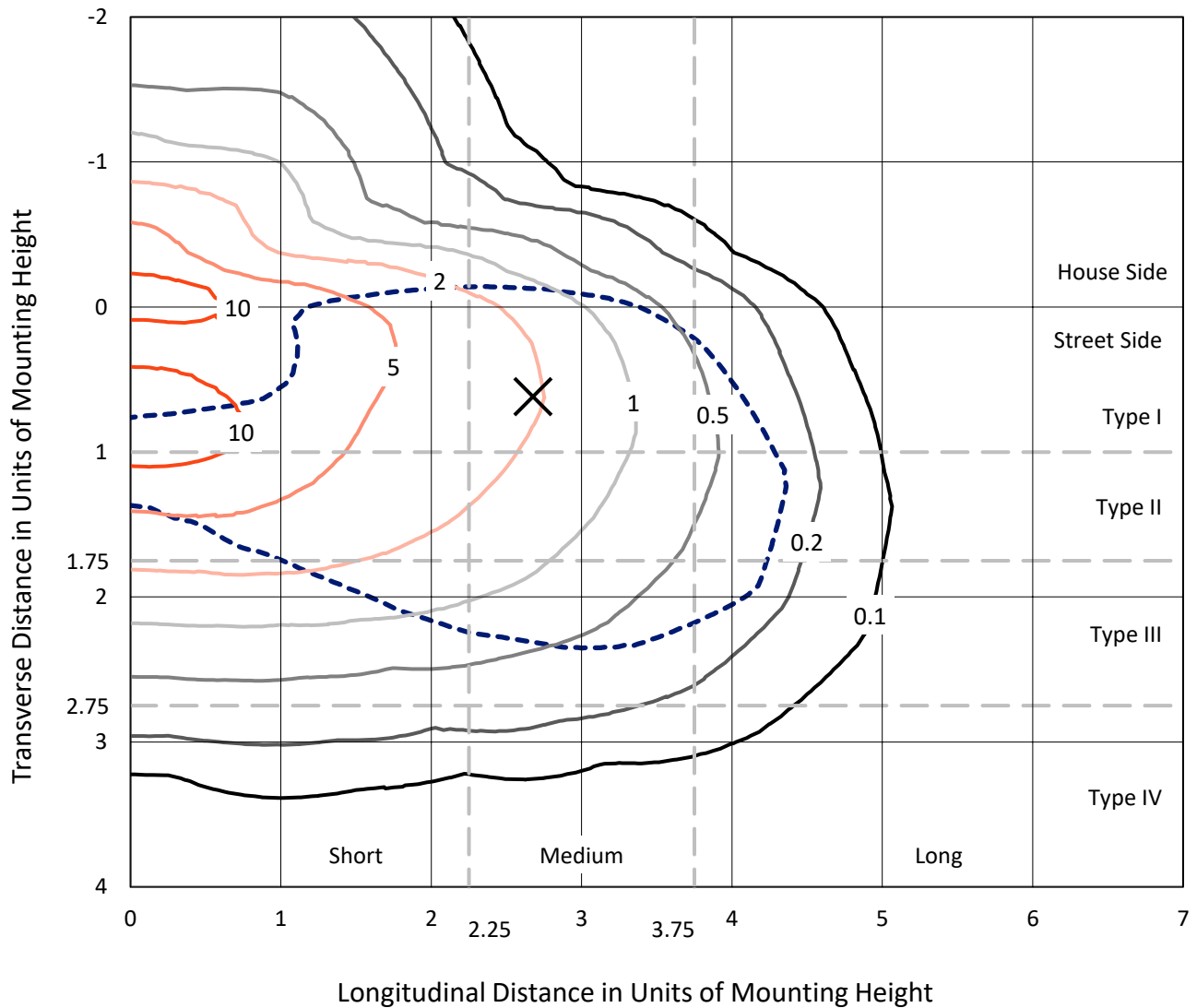
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

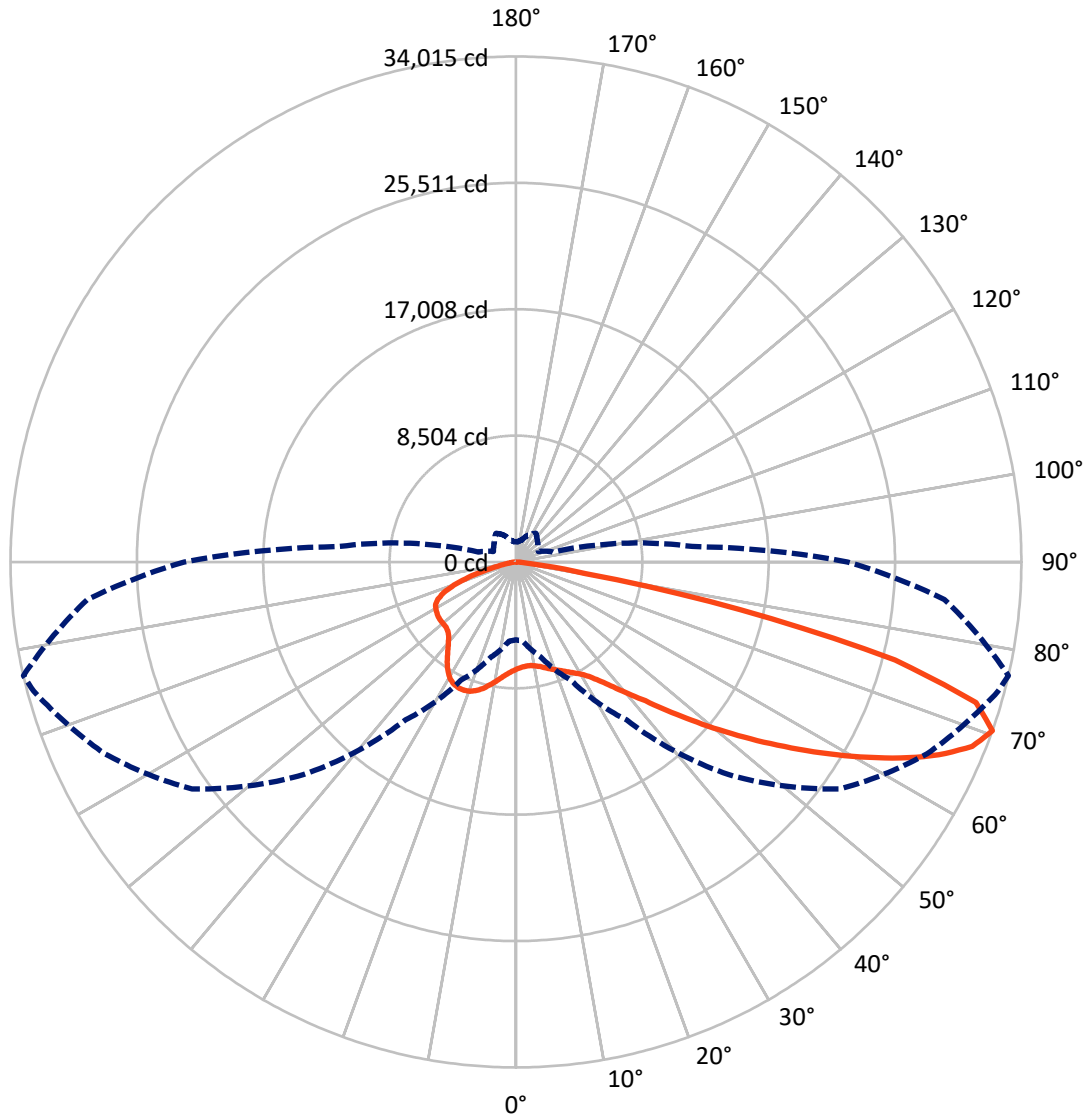
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11317.6	0.0	11317.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	40364.4	0.0	40364.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	51682.0	0.0	51682.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.6	1.3
10°-20°	1984.6	3.8
20°-30°	3394.0	6.6
30°-40°	5457.9	10.6
40°-50°	8521.2	16.5
50°-60°	11382.3	22.0
60°-70°	12131.7	23.5
70°-80°	7468.2	14.5
80°-90°	654.4	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°	51682.0	100.0
0°-180°	51682.0	100.0



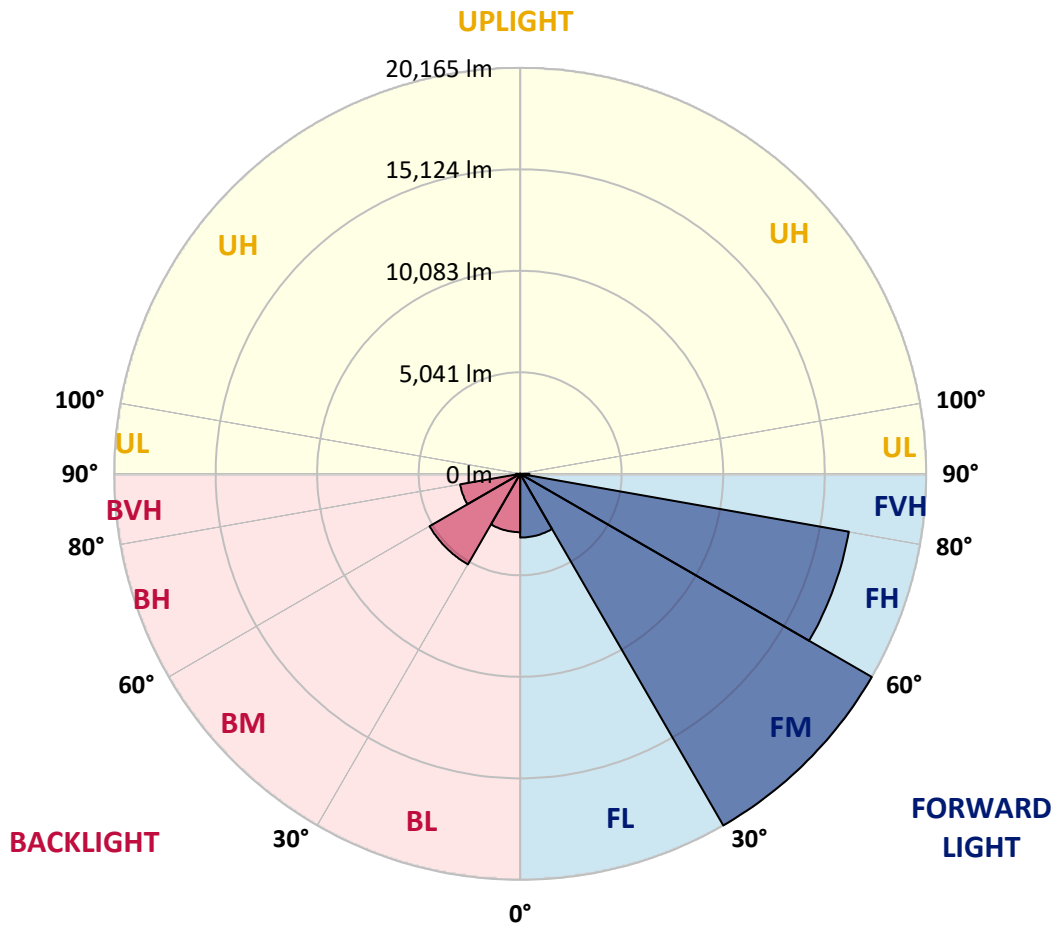
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3166.4	6.1			
FM (30°-60°)	20165.2	39.0			
FH (60°-80°)	16575.3	32.1			G5
FVH (80°-90°)	457.6	0.9			G3/500
BL (0°-30°)	2899.9	5.6	B4/5000		
BM (30°-60°)	5196.1	10.1	B4/8500		
BH (60°-80°)	3024.7	5.9	B4/5000		G4/5000
BVH (80°-90°)	196.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7210.1	7210.1	7210.1	7210.1	7210.1	7210.1	7210.1	7210.1	7210.1	7210.1
2.5°	6646.3	6643.7	6678.1	6688.7	6752.2	6797.2	6881.9	6971.9	7088.4	7101.6
5°	6262.5	6262.5	6302.2	6344.6	6426.6	6516.6	6646.3	6802.5	7003.7	7035.4
7.5°	5937.0	5958.1	5992.5	6074.6	6169.9	6299.6	6498.1	6720.4	6985.1	7035.4
10°	5674.9	5698.7	5741.1	5807.3	5950.2	6130.2	6389.6	6675.4	7030.1	7109.5
12.5°	5592.9	5616.7	5640.5	5690.8	5823.1	6034.9	6344.6	6696.6	7138.6	7218.1
15°	5783.4	5812.6	5794.0	5780.8	5849.6	6042.8	6365.8	6773.4	7273.6	7387.5
17.5°	6222.8	6233.4	6191.1	6066.7	6056.1	6159.3	6466.3	6879.3	7443.0	7567.4
20°	6932.2	6913.7	6826.3	6580.2	6439.9	6418.7	6638.4	7038.1	7617.7	7750.1
22.5°	7895.7	7874.5	7699.8	7310.7	6998.4	6791.9	6887.2	7244.5	7813.6	7961.8
25°	9097.3	9068.2	8811.5	8282.1	7797.7	7286.9	7226.0	7517.1	8054.5	8192.1
27.5°	10500.2	10476.4	10198.4	9499.7	8800.9	7964.5	7646.8	7837.4	8305.9	8462.1
30°	12008.9	12077.7	11585.4	10833.7	9949.6	8848.5	8213.3	8231.8	8631.5	8771.8
32.5°	13782.3	13901.4	13308.5	12355.7	11148.7	9809.4	8927.9	8782.4	9105.3	9221.7
35°	15539.9	15674.8	15182.5	14129.1	12739.4	10942.2	9674.4	9415.0	9735.2	9862.3
37.5°	17059.2	17239.2	16985.1	16069.2	14441.4	12308.0	10648.4	10158.7	10510.8	10669.6
40°	18258.2	18533.5	18514.9	17943.2	16447.7	13965.0	11884.5	11077.2	11474.2	11646.3
42.5°	19232.3	19470.5	19676.9	19647.8	18541.4	15846.9	13337.6	12271.0	12572.7	12771.2
45°	19904.6	20158.7	20603.3	21082.4	20555.7	17861.2	15002.5	13687.0	13962.3	14261.4
47.5°	20505.4	20793.9	21370.9	22130.6	22265.6	19883.4	16826.2	15336.0	15587.5	15897.2
50°	20558.3	20807.2	21701.8	22779.1	23480.5	21826.2	18784.9	17186.2	17421.8	17752.6
52.5°	19279.9	19671.6	21233.3	22760.6	24039.0	23451.4	20730.4	19110.5	19375.2	19772.2
55°	14965.5	15539.9	19859.6	22051.2	23840.5	24502.2	22580.6	21156.5	21495.3	21910.9
57.5°	12890.3	13141.8	15764.8	20759.5	22935.2	24774.8	24142.2	23223.8	23769.0	24224.3
60°	11585.4	11794.5	13345.6	18750.5	21744.1	24343.4	25349.2	25150.7	26093.0	26635.6
62.5°	10187.9	10386.4	11797.2	15656.3	20219.5	23626.1	26111.5	26929.4	28475.2	29068.1
65°	8800.9	8970.3	10322.8	13155.0	18282.0	22908.8	26505.9	28467.2	30680.0	31294.1
67.5°	7255.1	7395.4	8673.8	11098.4	15926.3	21926.8	26701.8	29676.9	32599.0	33125.7
70°	5235.5	5344.1	6664.9	8777.1	12969.7	20238.1	26622.4	30534.4	33594.2	34015.1
72.5°	2474.8	2572.8	4123.8	5698.7	9160.9	16950.6	25015.7	29854.2	32583.1	32374.0
75°	1320.8	1405.5	2369.0	3126.0	4838.5	11619.8	20471.0	25717.1	27360.8	26344.4
77.5°	894.6	960.8	1466.4	1876.6	2210.1	5516.1	13157.7	17805.6	17130.6	15452.5
80°	709.4	778.2	1201.7	1270.5	1069.3	1993.1	5436.7	8242.4	5921.1	4735.3
82.5°	545.3	622.0	1011.1	921.1	582.3	817.9	1582.8	2607.2	1516.7	1154.0
85°	333.5	415.6	794.1	587.6	328.2	373.2	537.3	725.2	463.2	386.4
87.5°	169.4	238.2	402.3	214.4	148.2	87.3	142.9	142.9	121.8	105.9
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°
7210.1	0°	7210.1	7210.1	7210.1	7210.1	7210.1	7210.1	7210.1	7210.1	7210.1	7210.1
7173.1	2.5°	7236.6	7289.5	7379.5	7464.2	7530.4	7593.9	7657.4	7691.8	7702.4	7744.8
7212.8	5°	7321.3	7419.2	7593.9	7758.0	7861.2	7924.8	7969.8	7996.2	8001.5	8014.8
7321.3	7.5°	7477.4	7633.6	7877.1	8041.2	8118.0	8112.7	8094.2	8028.0	8001.5	7977.7
7480.1	10°	7697.1	7903.6	8202.7	8316.5	8268.9	8141.8	7977.7	7784.5	7694.5	7607.1
7697.1	12.5°	7969.8	8231.8	8525.6	8520.3	8284.7	7959.2	7578.0	7281.6	7093.6	6958.7
7964.5	15°	8300.6	8602.4	8827.4	8647.4	8131.2	7546.3	6987.8	6601.3	6431.9	6283.7
8234.5	17.5°	8642.1	8965.0	9068.2	8607.7	7744.8	6934.8	6302.2	5997.8	5831.1	5751.7
8525.6	20°	8975.6	9295.9	9211.2	8380.0	7157.2	6241.4	5677.6	5510.8	5476.4	5494.9
8808.8	22.5°	9327.6	9613.5	9240.3	7940.7	6408.1	5532.0	5222.3	5227.6	5304.4	5359.9
9105.3	25°	9687.6	9880.8	9163.5	7305.4	5603.5	5010.6	4933.8	5018.5	5169.4	5277.9
9438.8	27.5°	10034.3	10119.0	8996.8	6519.3	4912.6	4637.3	4650.6	4825.3	5052.9	5203.8
9843.8	30°	10426.1	10330.8	8676.5	5635.2	4433.5	4317.1	4428.2	4632.0	4859.7	4994.7
10354.6	32.5°	10868.1	10513.4	8168.3	4817.3	4094.7	4060.3	4243.0	4375.3	4475.9	4515.6
11032.2	35°	11418.7	10770.2	7517.1	4243.0	3790.3	3872.4	4047.1	3980.9	3941.2	3920.0
11942.7	37.5°	12133.3	11116.9	6754.8	3869.7	3544.2	3737.4	3808.9	3602.4	3446.2	3369.5
13046.5	40°	12993.6	11625.1	6021.7	3581.2	3388.0	3620.9	3496.5	3247.7	3049.2	2940.7
14287.9	42.5°	13949.1	12157.1	5404.9	3364.2	3300.7	3525.6	3266.3	2969.8	2649.5	2615.1
15767.5	45°	14952.2	12705.0	4984.1	3197.4	3258.3	3443.6	3133.9	2654.8	2427.2	2567.5
17252.4	47.5°	15955.4	13207.9	4730.0	3073.0	3237.1	3351.0	3017.4	2480.1	2318.7	2522.5
18843.2	50°	17072.4	13657.9	4616.2	2983.0	3213.3	3313.9	2842.8	2435.1	2204.9	2339.8
20489.5	52.5°	18181.4	14007.3	4531.5	2893.0	3178.9	3284.8	2758.1	2382.2	2067.2	2075.2
22146.5	55°	19287.8	14234.9	4438.8	2773.9	3102.1	3221.3	2750.1	2324.0	1964.0	1926.9
23898.7	57.5°	20468.3	14364.6	4325.0	2641.6	2969.8	3059.8	2742.2	2279.0	1932.2	1871.3
25690.7	60°	21670.0	14555.2	4176.8	2480.1	2792.5	2866.6	2723.6	2263.1	1913.7	1810.5
27379.4	62.5°	22747.3	14621.4	3999.4	2326.6	2564.8	2676.0	2683.9	2249.9	1863.4	1686.1
28782.2	65°	23454.0	14335.5	3689.8	2151.9	2318.7	2480.1	2607.2	2204.9	1773.4	1596.1
29475.7	67.5°	23424.9	13520.3	3205.4	1926.9	2080.5	2263.1	2496.0	2128.1	1664.9	1484.9
28951.6	70°	22334.4	11911.0	2591.3	1664.9	1818.4	2030.2	2353.1	2014.3	1535.2	1363.1
25743.6	72.5°	19155.5	9322.3	1881.9	1357.9	1514.0	1789.3	2167.8	1876.6	1402.8	1254.6
19025.8	75°	13684.4	5899.9	1275.8	1042.9	1177.9	1516.7	1937.5	1715.2	1281.1	1259.9
9528.8	77.5°	6990.4	2818.9	844.4	762.3	820.5	1196.4	1627.8	1532.5	1299.6	1040.2
2710.4	80°	2273.7	1040.2	532.0	518.8	545.3	796.7	1259.9	1257.3	984.6	706.7
656.4	82.5°	725.2	447.3	346.7	333.5	320.3	500.3	878.8	995.2	664.4	447.3
235.6	85°	288.5	267.3	203.8	187.9	135.0	235.6	460.6	661.7	495.0	322.9
60.9	87.5°	105.9	105.9	55.6	39.7	29.1	79.4	124.4	198.5	283.2	166.8
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>
7210.1
7768.6
8035.9
7983.0
7580.7
6926.9
6267.8
5775.5
5487.0
5373.2
5307.0
5240.8
5026.4
4536.8
3941.2
3388.0
2948.6
2649.5
2641.6
2617.8
2440.4
2130.7
1953.4
1879.3
1818.4
1686.1
1596.1
1492.8
1379.0
1246.7
1188.5
926.4
624.7
444.7
330.9
164.1
0.0

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