

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: P956251

Luminaire Tested: **GALN-SB8D-950-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956251
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-SB8D-950-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 58764 lumens
Efficiency: N/A
Efficacy: 100.5 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

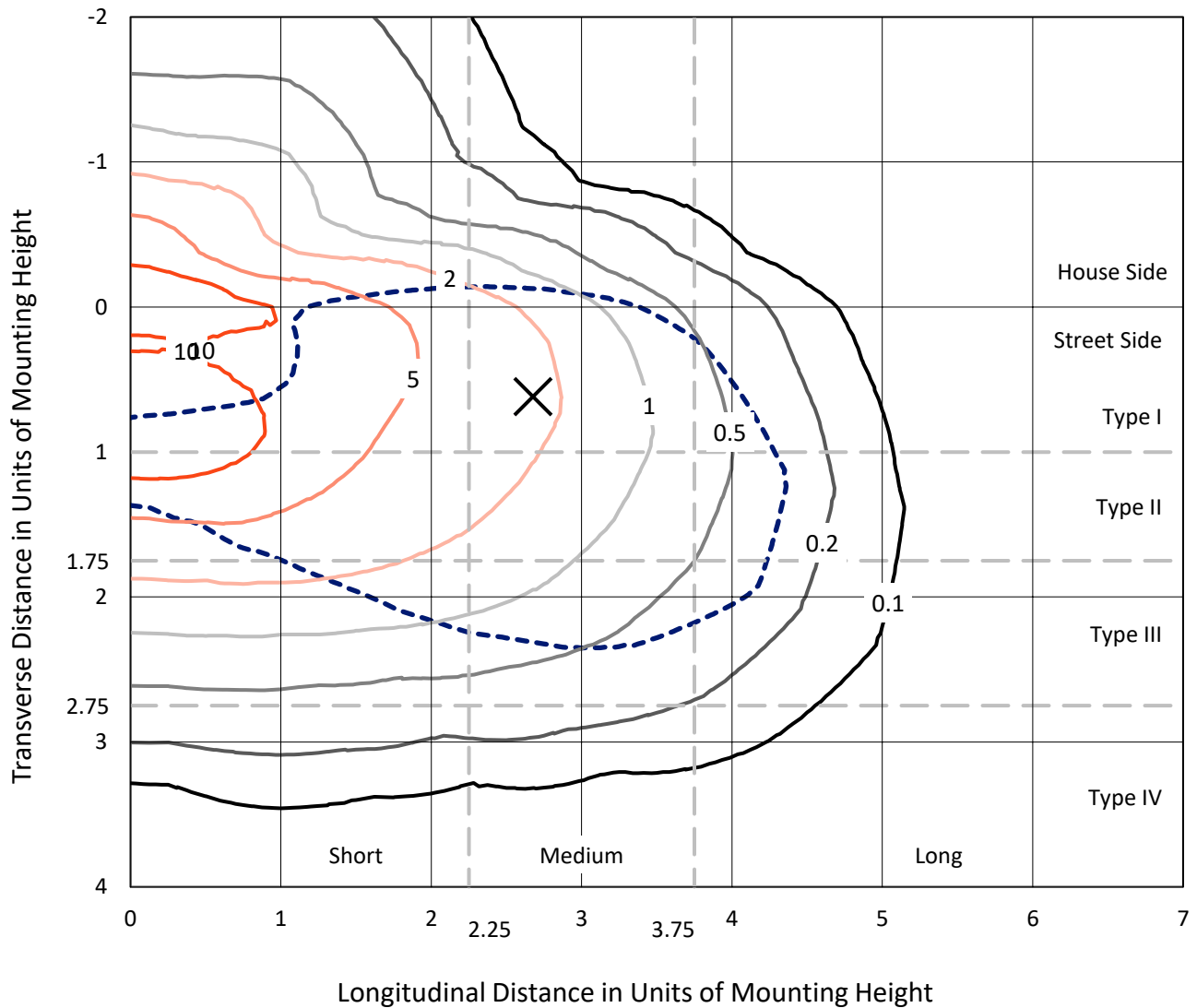
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

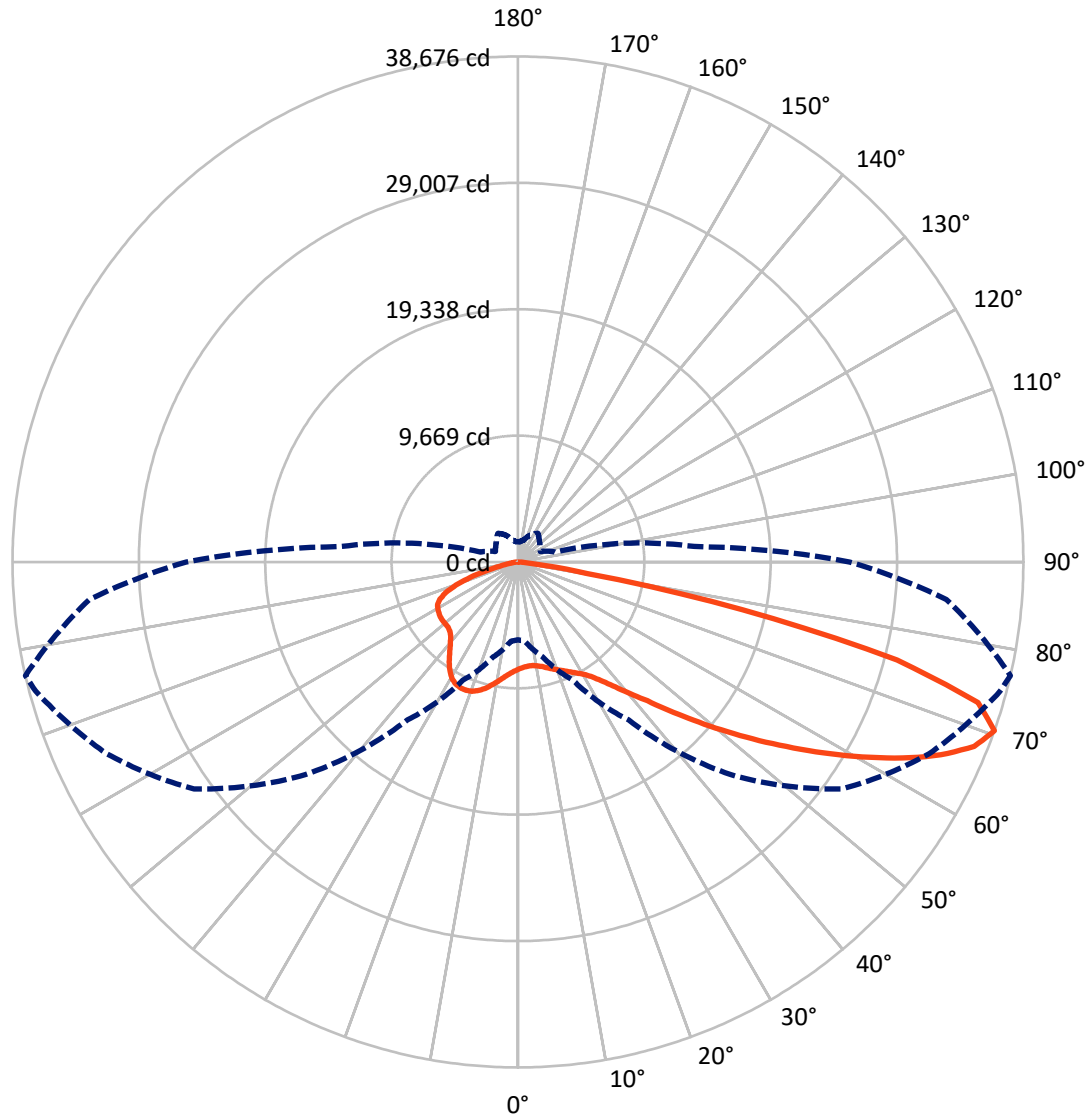
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 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	12868.4	0.0	12868.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	45895.6	0.0	45895.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	58764.0	0.0	58764.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	781.9	1.3
10°-20°	2256.6	3.8
20°-30°	3859.1	6.6
30°-40°	6205.8	10.6
40°-50°	9688.9	16.5
50°-60°	12942.0	22.0
60°-70°	13794.2	23.5
70°-80°	8491.6	14.5
80°-90°	744.1	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°	58764.0	100.0
0°-180°	58764.0	100.0



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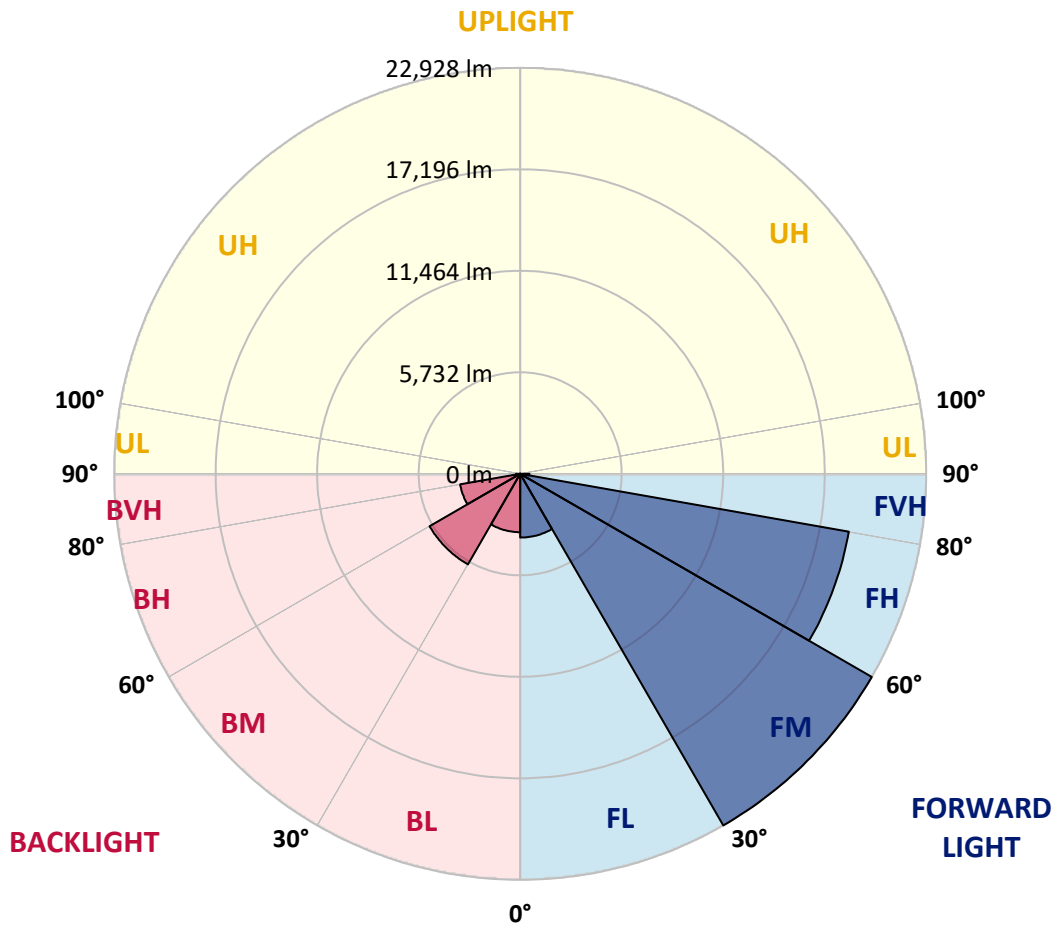
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3600.2	6.1			
FM (30°-60°)	22928.4	39.0			
FH (60°-80°)	18846.6	32.1			G5
FVH (80°-90°)	520.3	0.9			G4/750
BL (0°-30°)	3297.3	5.6	B4/5000		
BM (30°-60°)	5908.2	10.1	B4/8500		
BH (60°-80°)	3439.2	5.9	B4/5000		G4/5000
BVH (80°-90°)	223.8	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°	8198.1	8198.1	8198.1	8198.1	8198.1	8198.1	8198.1	8198.1	8198.1	8198.1
2.5°	7557.1	7554.1	7593.2	7605.2	7677.5	7728.6	7824.9	7927.3	8059.7	8074.7
5°	7120.7	7120.7	7165.8	7214.0	7307.3	7409.6	7557.1	7734.6	7963.4	7999.5
7.5°	6750.5	6774.6	6813.7	6907.0	7015.3	7162.8	7388.5	7641.3	7942.3	7999.5
10°	6452.6	6479.6	6527.8	6603.0	6765.6	6970.2	7265.1	7590.2	7993.5	8083.7
12.5°	6359.3	6386.3	6413.4	6470.6	6621.1	6861.9	7214.0	7614.3	8116.9	8207.1
15°	6575.9	6609.1	6588.0	6572.9	6651.2	6870.9	7238.1	7701.5	8270.3	8399.8
17.5°	7075.5	7087.6	7039.4	6898.0	6885.9	7003.3	7352.4	7821.9	8463.0	8604.4
20°	7882.1	7861.0	7761.7	7481.8	7322.3	7298.2	7548.0	8002.5	8661.6	8812.1
22.5°	8977.6	8953.5	8754.9	8312.5	7957.3	7722.6	7830.9	8237.2	8884.3	9052.8
25°	10343.9	10310.8	10018.9	9417.0	8866.2	8285.4	8216.2	8547.2	9158.2	9314.7
27.5°	11939.0	11911.9	11595.9	10801.4	10006.9	9055.8	8694.7	8911.4	9444.1	9621.6
30°	13654.5	13732.7	13173.0	12318.2	11313.0	10061.0	9338.7	9359.8	9814.3	9973.8
32.5°	15670.9	15806.3	15132.2	14048.8	12676.4	11153.5	10151.3	9985.8	10353.0	10485.4
35°	17669.3	17822.8	17263.0	16065.2	14485.1	12441.6	11000.0	10705.1	11069.3	11213.7
37.5°	19396.8	19601.4	19312.5	18271.2	16420.3	13994.6	12107.6	11550.8	11951.1	12131.6
40°	20760.1	21073.1	21052.1	20402.0	18701.6	15878.6	13513.0	12595.1	13046.6	13242.2
42.5°	21867.7	22138.5	22373.3	22340.2	21082.2	18018.4	15165.3	13952.4	14295.5	14521.3
45°	22632.1	22921.0	23426.6	23971.4	23372.5	20308.7	17058.3	15562.6	15875.6	16215.7
47.5°	23315.3	23643.3	24299.4	25163.2	25316.6	22608.0	19131.9	17437.5	17723.5	18075.6
50°	23375.5	23658.4	24675.6	25900.5	26698.0	24817.1	21359.0	19541.2	19809.1	20185.3
52.5°	21921.8	22367.2	24142.9	25879.4	27333.1	26664.9	23571.1	21729.2	22030.2	22481.6
55°	17016.2	17669.3	22580.9	25072.9	27107.3	27859.7	25674.8	24055.6	24440.9	24913.4
57.5°	14656.7	14942.6	17925.1	23604.2	26078.1	28169.7	27450.4	26406.1	27026.1	27543.7
60°	13173.0	13410.7	15174.3	21319.9	24723.8	27679.2	28822.8	28597.1	29668.5	30285.5
62.5°	11583.9	11809.6	13413.7	17801.7	22990.2	26863.6	29689.6	30619.5	32377.1	33051.3
65°	10006.9	10199.5	11737.4	14957.6	20787.2	26048.0	30138.0	32368.1	34884.1	35582.3
67.5°	8249.3	8408.8	9862.4	12619.2	18108.7	24931.4	30360.7	33743.5	37066.1	37665.0
70°	5953.0	6076.4	7578.1	9979.8	14747.0	23011.3	30270.4	34718.6	38197.7	38676.2
72.5°	2814.0	2925.3	4688.9	6479.6	10416.2	19273.4	28443.6	33945.1	37048.0	36810.3
75°	1501.8	1598.1	2693.6	3554.3	5501.5	13212.1	23276.1	29241.1	31110.1	29954.4
77.5°	1017.2	1092.5	1667.3	2133.8	2513.0	6272.0	14960.7	20245.5	19478.0	17570.0
80°	806.6	884.8	1366.4	1444.6	1215.9	2266.2	6181.7	9371.9	6732.4	5384.2
82.5°	620.0	707.3	1149.7	1047.3	662.1	930.0	1799.7	2964.4	1724.5	1312.2
85°	379.2	472.5	902.9	668.1	373.2	424.4	610.9	824.6	526.7	439.4
87.5°	192.6	270.9	457.5	243.8	168.5	99.3	162.5	162.5	138.4	120.4
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°
8198.1	0°	8198.1	8198.1	8198.1	8198.1	8198.1	8198.1	8198.1	8198.1	8198.1	8198.1
8156.0	2.5°	8228.2	8288.4	8390.7	8487.0	8562.3	8634.5	8706.7	8745.9	8757.9	8806.1
8201.1	5°	8324.5	8435.9	8634.5	8821.1	8938.5	9010.7	9061.9	9092.0	9098.0	9113.0
8324.5	7.5°	8502.1	8679.6	8956.5	9143.1	9230.4	9224.4	9203.3	9128.1	9098.0	9070.9
8505.1	10°	8751.9	8986.6	9326.7	9456.1	9401.9	9257.5	9070.9	8851.2	8748.9	8649.6
8751.9	12.5°	9061.9	9359.8	9693.9	9687.9	9420.0	9049.8	8616.4	8279.4	8065.7	7912.2
9055.8	15°	9438.1	9781.2	10037.0	9832.3	9245.5	8580.3	7945.3	7505.9	7313.3	7144.8
9362.8	17.5°	9826.3	10193.5	10310.8	9787.2	8806.1	7885.1	7165.8	6819.7	6630.1	6539.8
9693.9	20°	10205.5	10569.7	10473.4	9528.4	8137.9	7096.6	6455.6	6266.0	6226.8	6247.9
10015.9	22.5°	10605.8	10930.8	10506.5	9028.8	7286.2	6290.0	5937.9	5943.9	6031.2	6094.4
10353.0	25°	11015.1	11234.8	10419.2	8306.5	6371.3	5697.1	5609.9	5706.2	5877.7	6001.1
10732.2	27.5°	11409.3	11505.6	10229.6	7412.6	5585.8	5272.8	5287.8	5486.5	5745.3	5916.8
11192.7	30°	11854.8	11746.4	9865.4	6407.4	5041.1	4908.6	5035.0	5266.8	5525.6	5679.1
11773.5	32.5°	12357.4	11954.1	9287.6	5477.4	4655.8	4616.7	4824.4	4974.8	5089.2	5134.4
12544.0	35°	12983.4	12246.0	8547.2	4824.4	4309.7	4403.0	4601.7	4526.4	4481.3	4457.2
13579.3	37.5°	13795.9	12640.3	7680.5	4400.0	4029.8	4249.5	4330.8	4096.0	3918.5	3831.2
14834.3	40°	14774.1	13218.1	6846.8	4072.0	3852.3	4117.1	3975.7	3692.8	3467.0	3343.7
16245.7	42.5°	15860.5	13823.0	6145.6	3825.2	3753.0	4008.8	3713.8	3376.8	3012.6	2973.5
17928.1	45°	17001.2	14446.0	5667.1	3635.6	3704.8	3915.5	3563.4	3018.6	2759.8	2919.3
19616.5	47.5°	18141.8	15017.8	5378.1	3494.1	3680.7	3810.1	3430.9	2820.0	2636.4	2868.1
21425.2	50°	19411.8	15529.5	5248.7	3391.8	3653.6	3768.0	3232.3	2768.8	2507.0	2660.5
23297.2	52.5°	20672.9	15926.7	5152.4	3289.5	3614.5	3734.9	3136.0	2708.6	2350.5	2359.5
25181.2	55°	21930.9	16185.6	5047.1	3154.0	3527.2	3662.7	3127.0	2642.4	2233.1	2191.0
27173.6	57.5°	23273.1	16333.0	4917.7	3003.6	3376.8	3479.1	3117.9	2591.3	2197.0	2127.8
29211.0	60°	24639.5	16549.7	4749.1	2820.0	3175.1	3259.4	3096.9	2573.2	2175.9	2058.6
31131.2	62.5°	25864.4	16625.0	4547.5	2645.4	2916.3	3042.7	3051.7	2558.1	2118.7	1917.1
32726.2	65°	26667.9	16299.9	4195.4	2446.8	2636.4	2820.0	2964.4	2507.0	2016.4	1814.8
33514.8	67.5°	26634.8	15373.0	3644.6	2191.0	2365.5	2573.2	2838.0	2419.7	1893.0	1688.4
32918.9	70°	25394.9	13543.1	2946.4	1893.0	2067.6	2308.4	2675.5	2290.3	1745.6	1549.9
29271.2	72.5°	21780.4	10599.8	2139.8	1543.9	1721.5	2034.5	2464.9	2133.8	1595.1	1426.5
21632.9	75°	15559.6	6708.4	1450.6	1185.8	1339.3	1724.5	2203.0	1950.2	1456.6	1432.6
10834.5	77.5°	7948.3	3205.2	960.1	866.8	933.0	1360.3	1850.9	1742.6	1477.7	1182.8
3081.8	80°	2585.2	1182.8	604.9	589.9	620.0	905.9	1432.6	1429.6	1119.6	803.6
746.4	82.5°	824.6	508.6	394.3	379.2	364.2	568.8	999.2	1131.6	755.4	508.6
267.9	85°	328.0	304.0	231.7	213.7	153.5	267.9	523.7	752.4	562.8	367.2
69.2	87.5°	120.4	120.4	63.2	45.1	33.1	90.3	141.5	225.7	322.0	189.6
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>
8198.1
8833.1
9137.1
9076.9
8619.5
7876.1
7126.7
6566.9
6238.9
6109.5
6034.2
5959.0
5715.2
5158.4
4481.3
3852.3
3352.7
3012.6
3003.6
2976.5
2774.8
2422.7
2221.1
2136.8
2067.6
1917.1
1814.8
1697.4
1568.0
1417.5
1351.3
1053.4
710.3
505.6
376.2
186.6
0.0

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