

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: P957068

Luminaire Tested: **GALN-SB9C-740-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-740-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 73135 lumens
Efficiency: N/A
Efficacy: 162.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

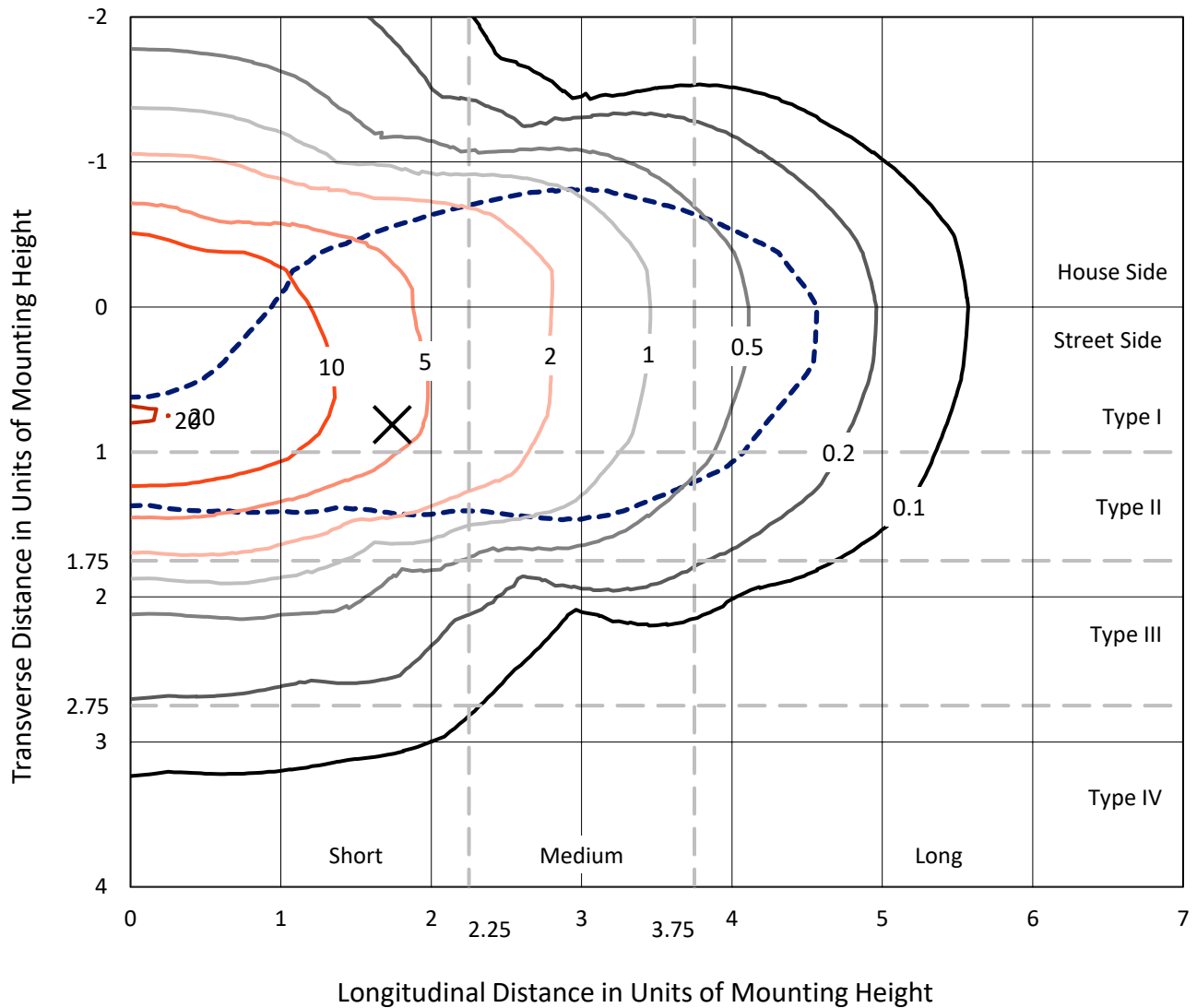
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

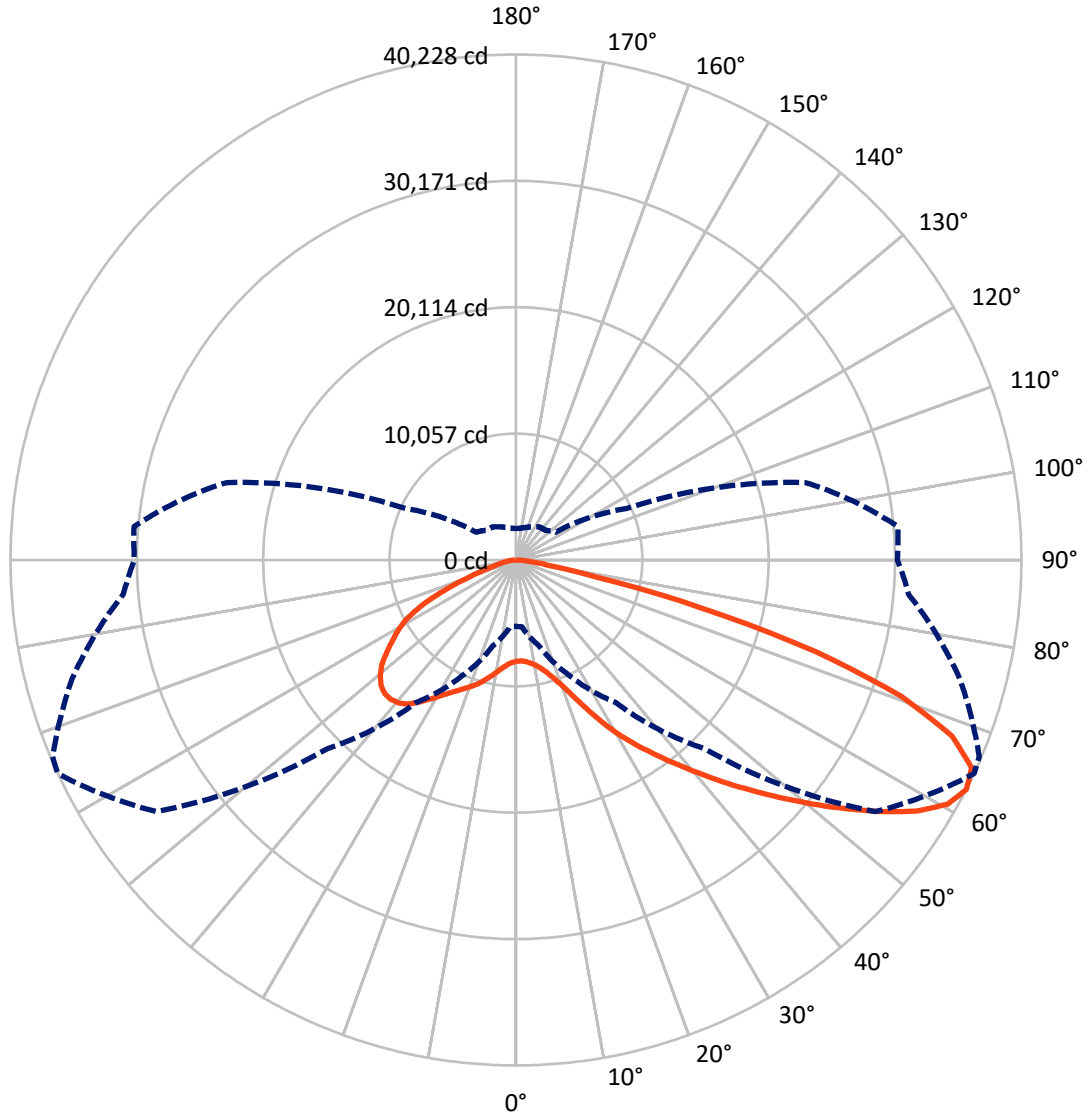
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23078.2	0.0	23078.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	50056.8	0.0	50056.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	73135.0	0.0	73135.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	803.5	1.1
10°-20°	2724.7	3.7
20°-30°	5524.6	7.6
30°-40°	9560.3	13.1
40°-50°	14467.7	19.8
50°-60°	16962.4	23.2
60°-70°	14220.9	19.4
70°-80°	7851.1	10.7
80°-90°	1019.8	1.4
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°	73135.0	100.0
0°-180°	73135.0	100.0

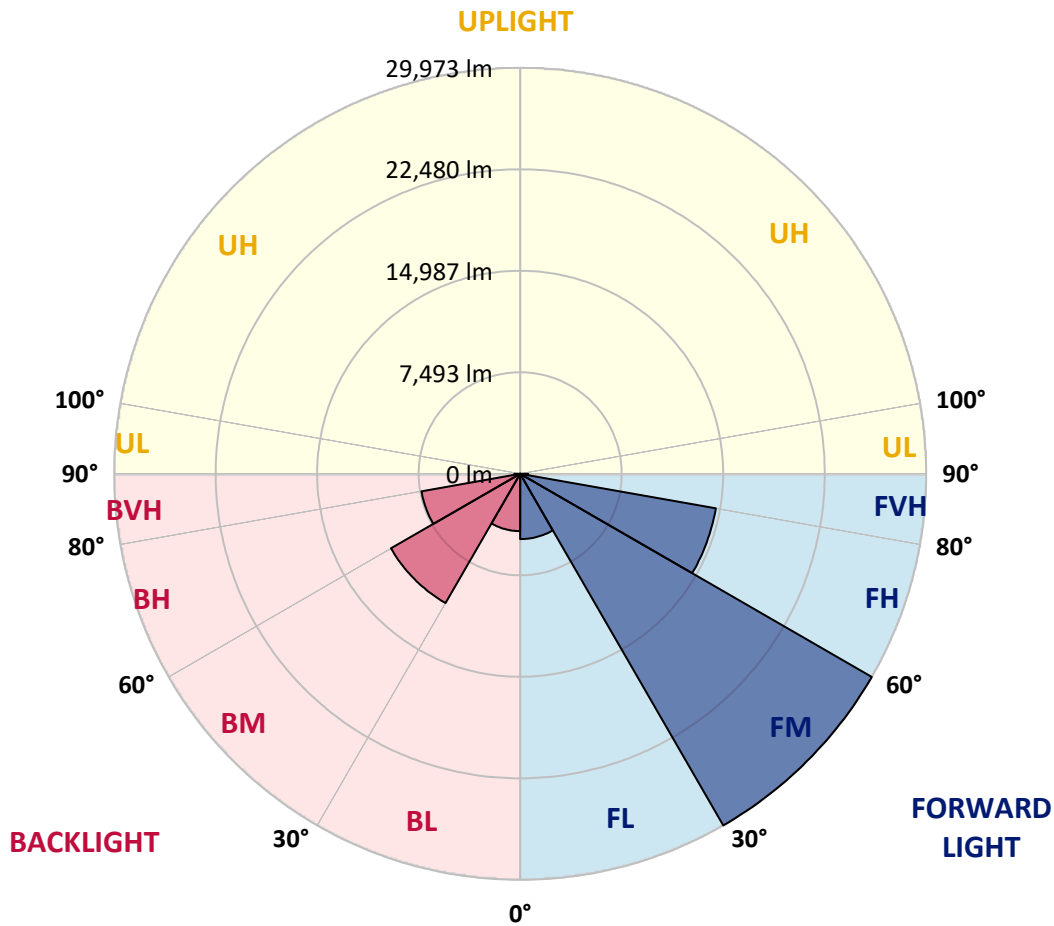


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4820.6	6.6			
FM (30°-60°)	29973.1	41.0			
FH (60°-80°)	14668.7	20.1			G5
FVH (80°-90°)	594.4	0.8			G4/750
BL (0°-30°)	4232.3	5.8	B4/5000		
BM (30°-60°)	11017.2	15.1	B5		
BH (60°-80°)	7403.3	10.1	B5		G5
BVH (80°-90°)	425.4	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	8059.2	8059.2	8059.2	8059.2	8059.2	8059.2	8059.2	8059.2	8059.2	8059.2
2.5°	8006.0	7983.3	8002.2	8002.2	8009.8	8006.0	8032.6	8040.2	8051.6	8074.3
5°	7926.4	7922.6	7956.7	7987.1	8017.4	8044.0	8078.1	8127.5	8135.0	8161.6
7.5°	7899.8	7877.0	7930.2	7968.1	8040.2	8104.7	8195.8	8279.2	8313.4	8324.8
10°	8104.7	8066.7	8116.1	8138.8	8199.6	8264.1	8370.3	8503.1	8541.0	8586.6
12.5°	8453.8	8412.0	8484.1	8518.3	8575.2	8632.1	8704.2	8833.2	8852.2	8935.7
15°	8931.9	8882.5	8928.1	8969.8	9064.7	9117.8	9189.9	9315.1	9315.1	9379.6
17.5°	9580.7	9516.2	9550.3	9565.5	9626.2	9705.9	9827.3	9937.4	9994.3	9971.5
20°	10548.2	10468.6	10468.6	10392.7	10369.9	10434.4	10593.8	10745.5	10806.3	10688.6
22.5°	12001.5	11887.6	11823.1	11565.1	11462.7	11470.3	11629.6	11815.5	11864.9	11656.2
25°	13849.3	13671.0	13583.7	13204.3	12972.8	12771.7	12896.9	13136.0	13204.3	12946.3
27.5°	15697.1	15708.5	15625.1	15169.7	14786.5	14418.5	14354.0	14604.4	14676.5	14384.3
30°	18288.7	18019.3	17859.9	17313.5	16767.2	16251.1	15985.5	16088.0	16106.9	15757.9
32.5°	20523.5	20455.2	20113.8	19635.7	18933.7	18125.5	17681.6	17518.4	17488.1	16991.0
35°	23069.5	23031.6	22671.1	22102.0	21343.1	20220.0	19419.4	18952.7	18914.7	18216.6
37.5°	25657.3	25657.3	25304.4	24682.1	23896.7	22492.8	21274.8	20534.9	20413.5	19502.9
40°	27721.4	27596.2	27660.7	27398.9	26499.6	25008.4	23335.1	22261.3	22098.2	21005.4
42.5°	28893.8	28852.1	29239.1	29531.3	29163.2	27971.8	25604.1	24131.9	23904.3	22659.7
45°	29155.6	29110.1	29800.7	30870.7	31386.7	30897.2	28070.5	26101.2	25824.2	24390.0
47.5°	28552.3	28461.3	29474.4	31162.8	32817.2	33678.5	30741.7	28237.4	27835.2	26074.6
50°	26738.7	26651.4	28184.3	30426.7	33299.1	35568.1	33640.5	30502.6	29887.9	27880.7
52.5°	22796.3	22838.1	25239.9	28320.9	32665.4	36744.3	36137.2	32889.3	32149.4	29728.6
55°	17757.5	17848.5	20800.5	24192.7	30130.8	36566.0	37840.9	35348.0	34611.9	31466.4
57.5°	12714.8	13117.0	15883.1	19241.1	25262.7	33739.2	38212.7	37685.3	36972.0	33363.6
60°	8241.3	8313.4	11159.1	14543.7	19237.3	28715.5	37457.6	39457.3	38899.5	35298.7
62.5°	5281.7	5331.0	7065.0	10172.6	13845.5	21244.5	34915.4	40227.5	40056.8	36577.4
65°	3881.6	3843.7	4746.7	6723.6	9326.5	13101.8	29979.0	39855.7	40193.4	37378.0
67.5°	3240.4	3187.2	3631.2	4655.6	6871.5	7440.7	22181.7	37438.7	38675.6	37286.9
70°	2952.0	2906.5	3175.9	3456.6	5361.4	4982.0	11181.9	32547.8	34452.5	36251.0
72.5°	2500.5	2420.8	2788.8	3069.6	4170.0	3820.9	4621.5	25000.8	27323.0	32931.0
75°	1938.9	1885.8	2200.7	2701.6	3134.1	2982.3	2921.6	15181.1	17715.7	25467.6
77.5°	1536.7	1464.6	1753.0	2105.9	2819.2	2250.0	2128.6	6537.6	9049.5	16258.7
80°	1157.3	1092.8	1331.8	1665.7	2166.6	1696.1	1377.3	2667.4	3411.1	8237.5
82.5°	823.4	766.5	929.6	1221.8	1457.0	1521.5	846.1	1495.0	1680.9	3175.9
85°	527.4	493.3	622.3	766.5	925.8	978.9	516.0	781.6	857.5	1309.0
87.5°	288.4	235.2	333.9	356.7	428.8	390.8	246.6	284.6	307.3	474.3
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°
8059.2	0°	8059.2	8059.2	8059.2	8059.2	8059.2	8059.2	8059.2	8059.2	8059.2	8059.2
8074.3	2.5°	8089.5	8100.9	8138.8	8150.2	8176.8	8210.9	8233.7	8256.5	8256.5	8279.2
8195.8	5°	8199.6	8226.1	8305.8	8347.5	8415.8	8484.1	8525.9	8575.2	8605.5	8620.7
8389.3	7.5°	8412.0	8453.8	8567.6	8639.7	8757.3	8852.2	8916.7	8985.0	9000.2	9041.9
8658.7	10°	8700.4	8749.7	8878.7	9015.3	9155.7	9273.3	9334.1	9383.4	9402.4	9409.9
9003.9	12.5°	9030.5	9102.6	9269.6	9436.5	9584.5	9686.9	9702.1	9690.7	9637.6	9592.1
9428.9	15°	9436.5	9501.0	9686.9	9869.1	10013.2	10032.2	9937.4	9876.6	9812.1	9800.8
9903.2	17.5°	9922.2	9956.3	10127.1	10305.4	10316.8	10252.3	10111.9	10055.0	9994.3	9952.5
10521.7	20°	10487.5	10476.1	10597.6	10673.5	10593.8	10396.5	10184.0	10089.1	10028.4	9979.1
11280.5	22.5°	11162.9	11075.7	11060.5	11041.5	10829.0	10415.4	10127.1	10005.7	9910.8	9842.5
12339.2	25°	12145.7	11811.8	11580.3	11451.3	10973.2	10313.0	9944.9	9675.5	9497.2	9379.6
13633.0	27.5°	13375.0	12813.5	12229.1	11914.2	10973.2	10104.3	9504.8	9068.5	8776.3	8654.9
14885.2	30°	14547.5	13959.3	13098.0	12472.0	10946.6	9762.8	8795.3	8188.2	7846.7	7725.3
15955.2	32.5°	15549.2	14907.9	14020.1	13082.9	10882.1	9208.8	7915.0	7243.4	6913.3	6769.1
17013.8	35°	16478.8	15795.8	14945.9	13754.5	10711.4	8396.9	6947.4	6435.2	6067.1	5835.7
18091.4	37.5°	17431.2	16619.2	15822.4	14361.5	10404.1	7448.3	6203.7	5767.4	5334.8	5023.7
19237.3	40°	18467.0	17495.7	16759.6	14722.0	9899.4	6545.2	5627.0	5228.6	4769.5	4439.4
20557.7	42.5°	19677.4	18546.7	17803.0	14907.9	9208.8	5904.0	5251.4	4860.5	4428.0	4158.6
21973.0	45°	20940.9	19704.0	18755.4	14904.1	8438.6	5604.2	5129.9	4742.9	4264.8	3984.0
23426.2	47.5°	22265.1	20914.4	19578.7	14661.3	7770.8	5646.0	5061.6	4488.7	3961.3	3688.1
24894.6	50°	23593.2	22238.6	20375.6	14206.0	7486.2	5554.9	4807.4	4132.0	3509.8	3263.1
26272.0	52.5°	24909.8	23646.3	21062.3	13557.1	7197.8	5217.2	4481.1	3669.1	3323.8	3153.1
27694.8	55°	26234.0	25038.8	21809.8	12612.4	6476.9	4822.6	3934.7	3494.6	3175.9	3020.3
29087.3	57.5°	27562.0	26647.6	22519.4	11667.6	5570.1	4336.9	3635.0	3282.1	3027.9	2895.1
30252.2	60°	28943.2	28487.8	23251.7	10798.7	4674.6	3714.7	3414.9	3111.4	2853.3	2705.4
31371.5	62.5°	30366.0	30514.0	23824.6	9679.3	3851.2	3335.2	3217.6	2906.5	2656.0	2515.6
32297.3	65°	31800.3	32468.1	24200.2	8127.5	3122.7	2974.8	3005.1	2682.6	2428.4	2307.0
32976.5	67.5°	32881.7	33875.8	24094.0	6150.6	2561.2	2633.3	2739.5	2447.3	2208.3	2113.4
32866.5	70°	33003.1	33708.8	23046.8	4211.7	2143.8	2299.4	2443.5	2215.9	1969.3	1901.0
31318.4	72.5°	31386.7	31432.2	20128.9	2750.9	1813.7	2018.6	2132.4	1980.6	1741.6	1673.3
27398.9	75°	27148.4	25995.0	14778.9	1813.7	1517.7	1734.0	1840.3	1734.0	1502.6	1517.7
20500.8	77.5°	20569.1	18410.1	8973.6	1290.1	1267.3	1457.0	1601.2	1525.3	1328.0	1491.2
10309.2	80°	10597.6	9960.1	4003.0	963.8	1001.7	1164.9	1316.6	1218.0	1051.0	1001.7
2303.2	82.5°	2428.4	2823.0	1578.4	690.6	724.7	838.5	1005.5	914.4	755.1	637.4
960.0	85°	849.9	929.6	698.2	432.6	425.0	523.6	683.0	610.9	512.2	409.8
406.0	87.5°	269.4	352.9	261.8	174.5	182.1	235.2	314.9	288.4	239.0	155.6
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>
8059.2
8279.2
8628.3
9026.7
9391.0
9592.1
9800.8
9956.3
9982.9
9865.3
9425.1
8715.6
7797.4
6841.2
5911.6
5107.2
4503.9
4211.7
4029.6
3726.0
3278.3
3153.1
3005.1
2872.3
2694.0
2511.8
2303.2
2117.2
1904.8
1669.5
1464.6
1312.8
914.4
629.9
432.6
163.2
0.0

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