

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: P942835

Luminaire Tested: **GALN-SB7A-740-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942835  
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-SB7A-740-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33442 lumens  
Efficiency: N/A  
Efficacy: 168.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4

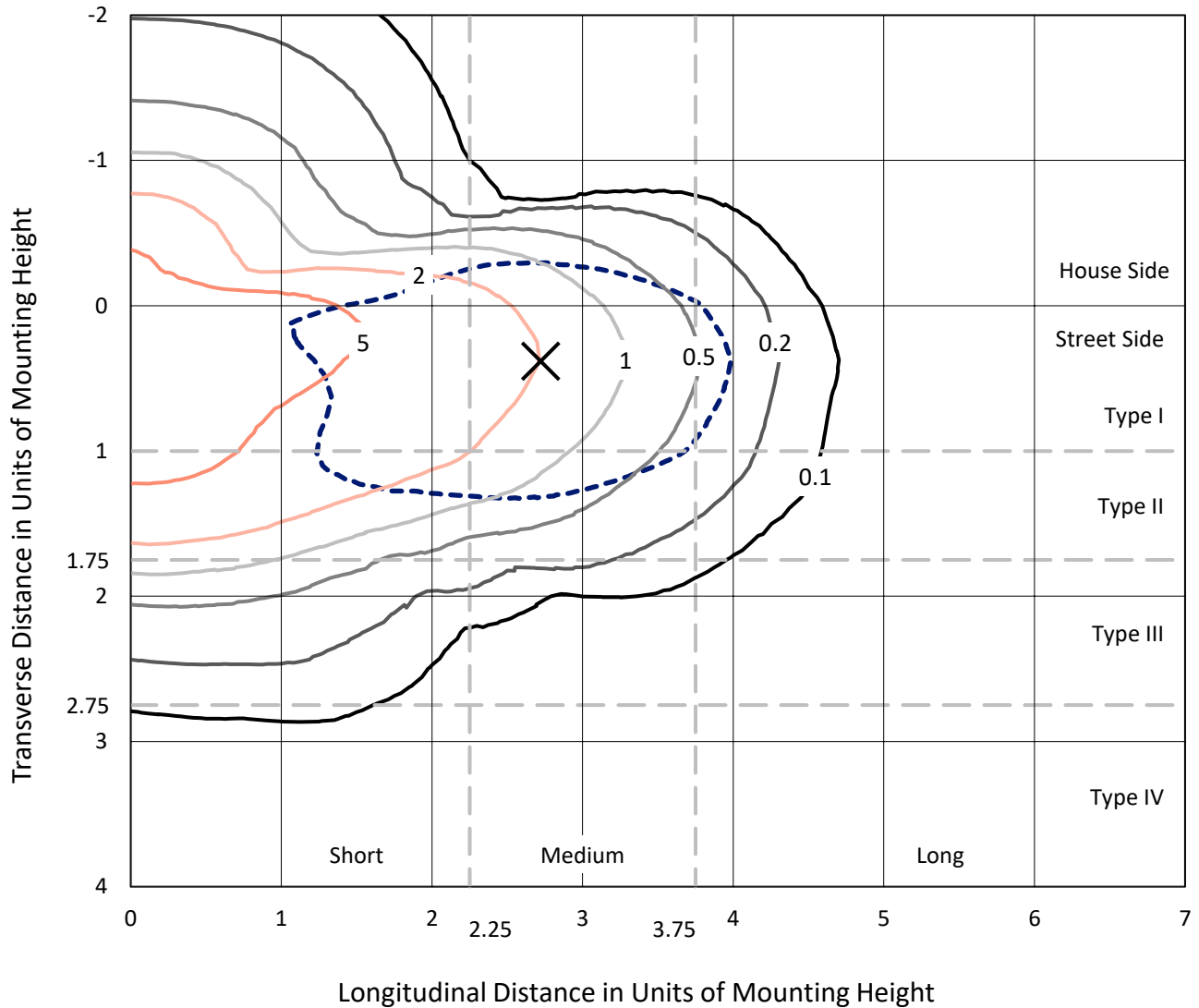
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P942835  
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### Iso-Footcandle Lines of Horizontal Illumination

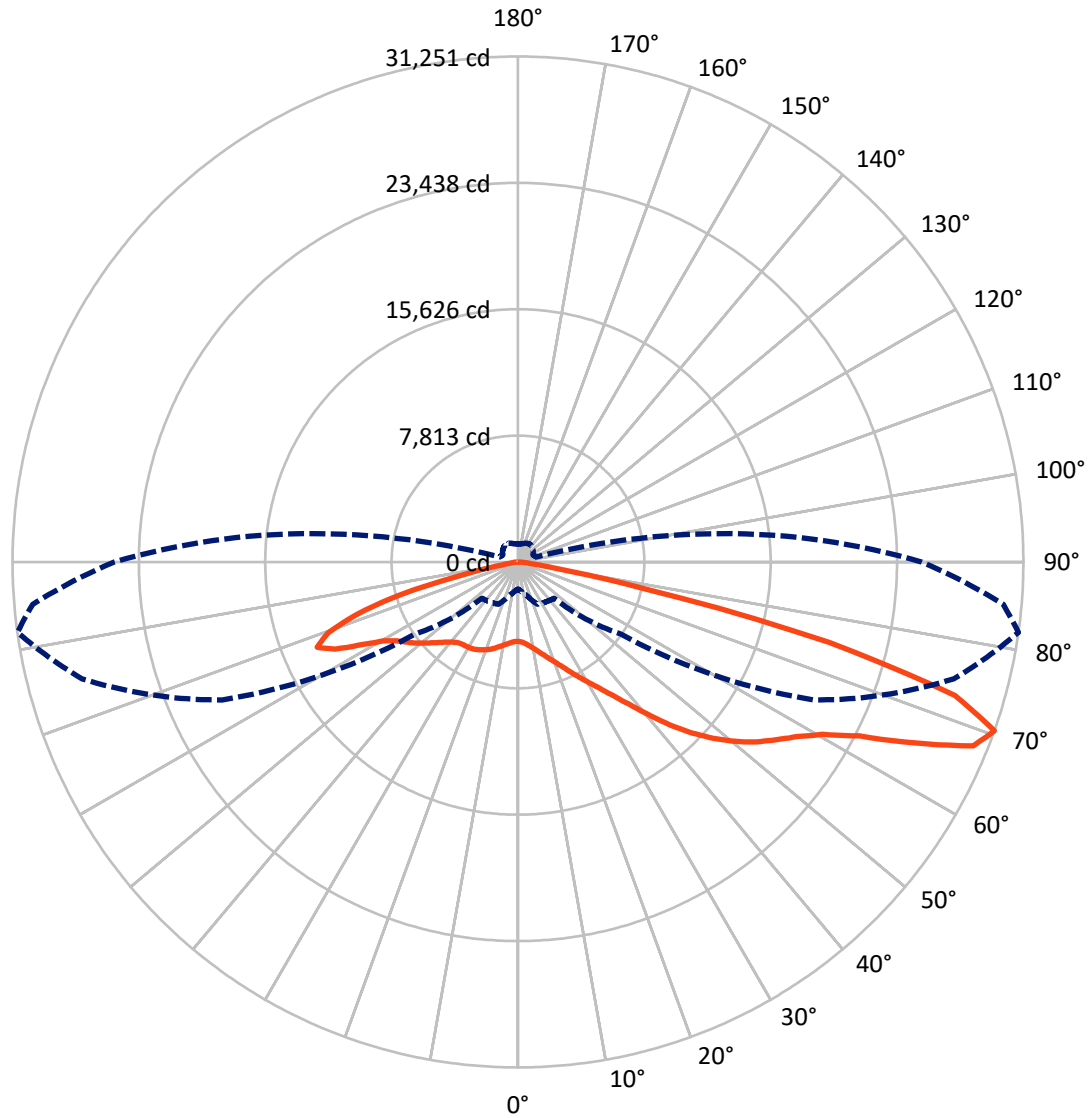
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type II - Medium - N/A

REPORT NUMBER: P942835  
CATALOG NUMBER: GALN-SB7A-740-U-T2

### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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 CATALOG NUMBER: GALN-SB7A-740-U-T2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8244.3	0.0	8244.3
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	25197.7	0.0	25197.7
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	33442.0	0.0	33442.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	462.9	1.4
10°-20°	1330.0	4.0
20°-30°	2225.0	6.7
30°-40°	3476.0	10.4
40°-50°	5536.0	16.6
50°-60°	7704.0	23.0
60°-70°	8058.7	24.1
70°-80°	4211.9	12.6
80°-90°	437.4	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°	33442.0	100.0
0°-180°	33442.0	100.0



REPORT NUMBER: P942835

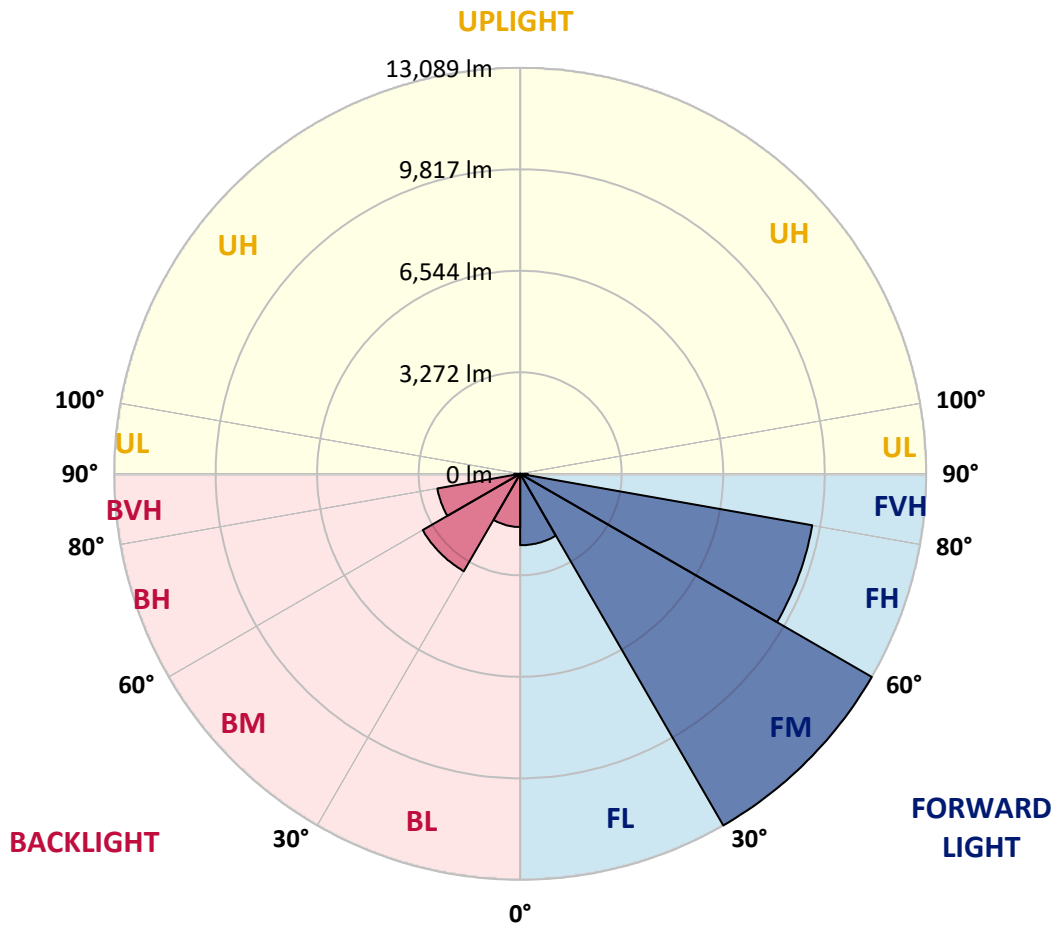
CATALOG NUMBER: GALN-SB7A-740-U-T2

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2302.9	6.9			
FM (30°-60°)	13088.9	39.1			
FH (60°-80°)	9561.2	28.6			G4/12000
FVH (80°-90°)	244.8	0.7			G3/500
BL (0°-30°)	1715.1	5.1	B3/2500		
BM (30°-60°)	3627.2	10.8	B3/5000		
BH (60°-80°)	2709.5	8.1	B4/5000		G4/5000
BVH (80°-90°)	192.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Medium



REPORT NUMBER: P942835  
 CATALOG NUMBER: GALN-SB7A-740-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4903.0	4903.0	4903.0	4903.0	4903.0	4903.0	4903.0	4903.0	4903.0	4903.0
2.5°	5020.1	5048.5	5039.7	5030.8	5030.8	5018.4	5016.6	4998.8	4984.6	4961.6
5°	5084.0	5114.2	5110.6	5117.7	5140.8	5146.1	5151.4	5140.8	5112.4	5084.0
7.5°	5027.2	5060.9	5071.6	5114.2	5185.2	5249.0	5297.0	5316.5	5289.9	5249.0
10°	4835.6	4872.8	4910.1	5011.3	5137.3	5288.1	5415.9	5492.2	5486.8	5447.8
12.5°	4447.0	4486.0	4565.9	4762.8	4993.5	5259.7	5497.5	5657.2	5712.2	5683.8
15°	4136.4	4170.1	4230.5	4432.8	4732.7	5137.3	5527.6	5838.2	5978.4	5962.4
17.5°	4127.5	4141.7	4179.0	4274.8	4505.5	4945.6	5495.7	6015.6	6283.6	6281.8
20°	4283.7	4289.0	4310.3	4329.8	4461.2	4800.1	5414.1	6162.9	6626.1	6626.1
22.5°	4500.2	4496.6	4517.9	4500.2	4564.1	4787.7	5362.6	6292.5	7007.6	7036.0
25°	4824.9	4807.2	4801.9	4761.1	4773.5	4903.0	5419.4	6439.8	7460.1	7518.7
27.5°	5257.9	5229.5	5210.0	5116.0	5084.0	5140.8	5593.3	6617.2	7964.1	8065.2
30°	5822.2	5770.8	5742.4	5579.1	5463.8	5472.6	5855.9	6853.2	8491.1	8654.4
32.5°	6592.4	6512.5	6436.2	6168.3	5957.1	5887.9	6194.9	7179.7	9062.5	9323.4
35°	7454.8	7390.9	7309.3	6895.8	6571.1	6411.4	6652.7	7635.8	9731.5	10145.0
37.5°	8285.3	8230.3	8269.3	7712.1	7293.3	7060.8	7252.5	8248.0	10556.7	11167.1
40°	9144.1	9101.5	9106.9	8574.5	8086.5	7825.7	7980.0	9016.4	11502.5	12382.6
42.5°	10077.5	10045.6	9939.1	9467.1	8918.8	8675.7	8817.6	9903.6	12517.5	13766.8
45°	11122.7	11103.2	11003.8	10462.6	9834.4	9561.1	9752.8	10883.2	13537.9	15069.3
47.5°	12026.0	12041.9	12029.5	11573.5	10922.2	10521.2	10750.1	11905.3	14487.2	16293.7
50°	12460.7	12544.1	12666.6	12524.6	12120.0	11711.9	11756.2	12891.9	15392.2	17441.8
52.5°	12233.6	12391.5	12725.1	12952.3	13108.4	13023.2	12904.4	13871.5	16244.0	18478.1
55°	11387.1	11608.9	12162.6	12710.9	13507.7	14127.0	14283.2	14957.5	17074.5	19390.2
57.5°	9845.1	10205.3	10702.2	11811.2	13152.8	14661.1	15890.9	16464.1	17954.7	20364.5
60°	7201.0	7683.7	8301.2	9951.5	11910.6	14375.4	17259.0	18778.0	19205.7	21626.1
62.5°	4608.4	4906.6	5474.4	7028.9	9280.8	12911.5	17677.8	21670.5	21326.3	23695.2
65°	3155.1	3346.8	3866.7	4739.8	5999.7	9610.8	16556.3	23839.0	24694.3	26974.6
67.5°	2292.7	2438.2	2881.8	3646.7	3909.3	5687.4	12847.6	23739.6	27968.3	30353.3
70°	1671.6	1774.5	2147.2	2881.8	3007.8	3164.0	7783.1	20179.9	27897.3	31251.2
72.5°	1238.6	1309.6	1559.8	2235.9	2434.6	2136.5	3852.5	14666.5	23972.1	28266.4
75°	896.1	949.4	1133.9	1710.6	1948.4	1627.2	1921.8	8571.0	16721.4	19883.6
77.5°	685.0	725.8	846.4	1252.8	1559.8	1220.9	1192.5	3943.0	7928.6	7967.6
80°	550.1	576.7	642.4	881.9	1196.0	913.9	777.2	1591.7	2505.6	2120.6
82.5°	404.6	449.0	543.0	619.3	855.3	630.0	473.8	803.9	952.9	819.8
85°	230.7	260.9	328.3	443.6	546.6	385.1	271.5	356.7	443.6	363.8
87.5°	81.6	106.5	115.3	173.9	237.8	159.7	104.7	102.9	145.5	108.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P942835  
 CATALOG NUMBER: GALN-SB7A-740-U-T2

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4903.0	0°	4903.0	4903.0	4903.0	4903.0	4903.0	4903.0	4903.0	4903.0	4903.0	4903.0
4956.3	2.5°	4938.5	4929.6	4894.1	4846.2	4796.5	4748.6	4732.7	4698.9	4675.9	4663.5
5071.6	5°	5037.9	5009.5	4926.1	4819.6	4707.8	4587.1	4502.0	4423.9	4367.1	4313.9
5229.5	7.5°	5179.8	5130.2	4986.4	4800.1	4601.3	4400.8	4251.8	4138.2	4061.9	4012.2
5414.1	10°	5344.9	5268.6	5048.5	4769.9	4462.9	4175.5	3999.8	3902.2	3854.3	3827.7
5625.2	12.5°	5534.7	5426.5	5112.4	4700.7	4251.8	3923.5	3802.8	3774.4	3776.2	3778.0
5891.4	15°	5769.0	5618.1	5163.9	4549.9	3976.7	3730.1	3708.8	3754.9	3802.8	3825.9
6193.1	17.5°	6033.4	5820.4	5172.7	4301.5	3707.0	3605.8	3673.3	3772.6	3845.4	3877.3
6530.3	20°	6317.3	6026.3	5108.9	3950.1	3485.2	3504.7	3625.4	3753.1	3833.0	3873.8
6915.3	22.5°	6642.1	6246.3	4956.3	3581.0	3304.2	3394.7	3536.6	3660.8	3744.2	3785.1
7367.8	25°	7012.9	6493.0	4716.7	3270.5	3148.0	3270.5	3412.4	3515.3	3582.8	3620.0
7873.6	27.5°	7424.6	6750.3	4397.3	3023.8	3011.4	3142.7	3259.8	3339.7	3375.1	3403.5
8411.3	30°	7838.1	6984.5	4010.4	2837.5	2892.5	3016.7	3100.1	3135.6	3146.2	3151.6
9011.0	32.5°	8285.3	7186.8	3604.1	2683.1	2778.9	2894.3	2943.9	2959.9	2910.2	2876.5
9738.6	35°	8826.5	7403.3	3206.6	2560.6	2667.1	2766.5	2782.5	2768.3	2709.7	2640.5
10650.7	37.5°	9495.5	7673.1	2888.9	2473.7	2562.4	2628.1	2608.6	2605.0	2610.3	2528.7
11747.4	40°	10315.3	8024.4	2656.5	2406.3	2477.2	2491.4	2436.4	2466.6	2493.2	2369.0
12950.5	42.5°	11225.7	8448.5	2509.2	2360.1	2406.3	2372.5	2287.4	2321.1	2317.5	2154.3
14158.9	45°	12153.7	8909.9	2457.7	2326.4	2340.6	2273.2	2179.1	2188.0	2113.5	1966.2
15317.7	47.5°	13076.5	9405.0	2489.7	2298.0	2259.0	2182.7	2109.9	2070.9	1960.9	1850.8
16428.6	50°	13981.5	9924.9	2606.8	2241.2	2147.2	2102.8	2049.6	1980.4	1863.3	1769.2
17479.1	52.5°	14820.8	10448.4	2738.1	2147.2	2007.0	2033.6	1999.9	1920.0	1804.7	1708.9
18472.8	55°	15615.8	10971.9	2789.6	2017.6	1875.7	1973.3	1953.8	1806.5	1668.1	1590.0
19512.7	57.5°	16481.8	11601.9	2732.8	1852.6	1769.2	1904.1	1829.5	1666.3	1586.4	1527.9
20866.7	60°	17681.4	12590.3	2610.3	1648.5	1668.1	1801.1	1673.4	1605.9	1519.0	1453.3
22896.7	62.5°	19674.2	14434.0	2413.4	1446.2	1549.2	1648.5	1598.8	1531.4	1442.7	1378.8
26367.7	65°	22619.9	16996.4	2042.5	1288.3	1416.1	1499.5	1519.0	1451.6	1359.3	1291.9
29409.2	67.5°	25104.2	18604.1	1545.6	1157.0	1279.4	1378.8	1433.8	1368.2	1270.6	1204.9
30120.8	70°	24967.6	17436.5	1180.1	1027.5	1158.8	1259.9	1330.9	1279.4	1174.7	1112.6
27359.6	72.5°	22176.3	14586.6	954.7	896.1	1036.3	1135.7	1220.9	1181.8	1075.4	1015.0
20043.3	75°	16291.9	10354.4	763.0	763.0	883.7	1006.2	1100.2	1075.4	977.8	935.2
8414.8	77.5°	6867.4	4344.0	598.0	633.5	734.7	864.2	981.3	990.2	905.0	958.2
2225.3	80°	1826.0	1197.8	456.1	498.6	576.7	713.4	853.5	850.0	757.7	708.0
826.9	82.5°	695.6	472.0	324.7	351.4	417.0	546.6	676.1	697.4	605.1	523.5
324.7	85°	268.0	202.3	200.5	211.2	243.1	362.0	511.1	528.8	456.1	386.8
90.5	87.5°	69.2	60.3	74.5	71.0	111.8	193.4	292.8	303.4	278.6	161.5
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

<u>180°</u>
4903.0
4677.7
4335.2
4022.9
3834.8
3781.5
3824.1
3884.4
3884.4
3795.7
3630.7
3414.2
3164.0
2887.2
2644.0
2534.0
2372.5
2152.5
1971.5
1850.8
1762.1
1710.6
1582.9
1522.5
1449.8
1378.8
1295.4
1206.7
<i>1118.0</i>
1015.0
922.8
869.5
658.3
523.5
399.3
230.7
0.0

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