

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: P948553

Luminaire Tested: **GALN-SB3C-827-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948553  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB3C-827-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

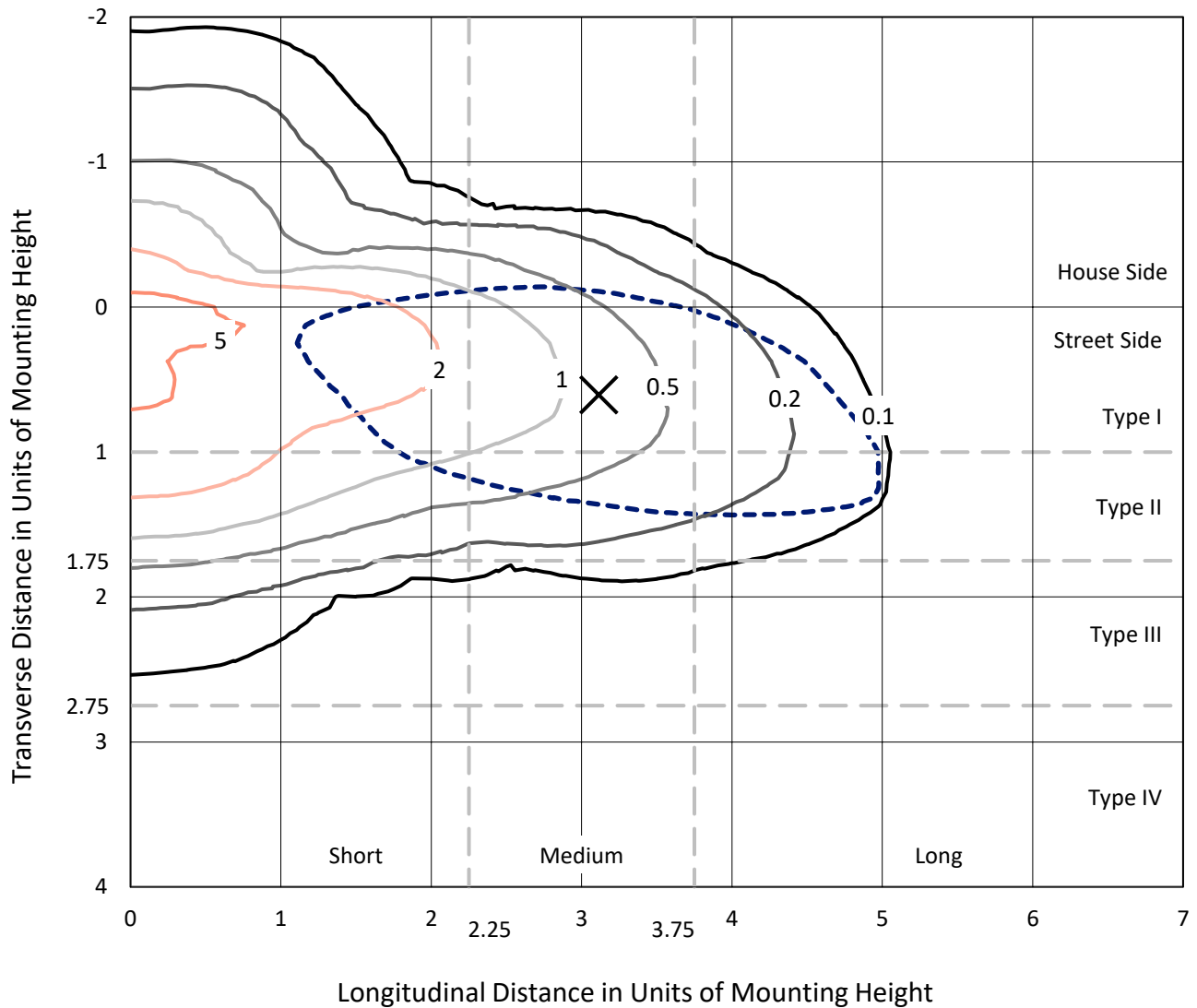
Lumens per Lamp: N/A  
Luminaire Lumens: 19421 lumens  
Efficiency: N/A  
Efficacy: 130.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

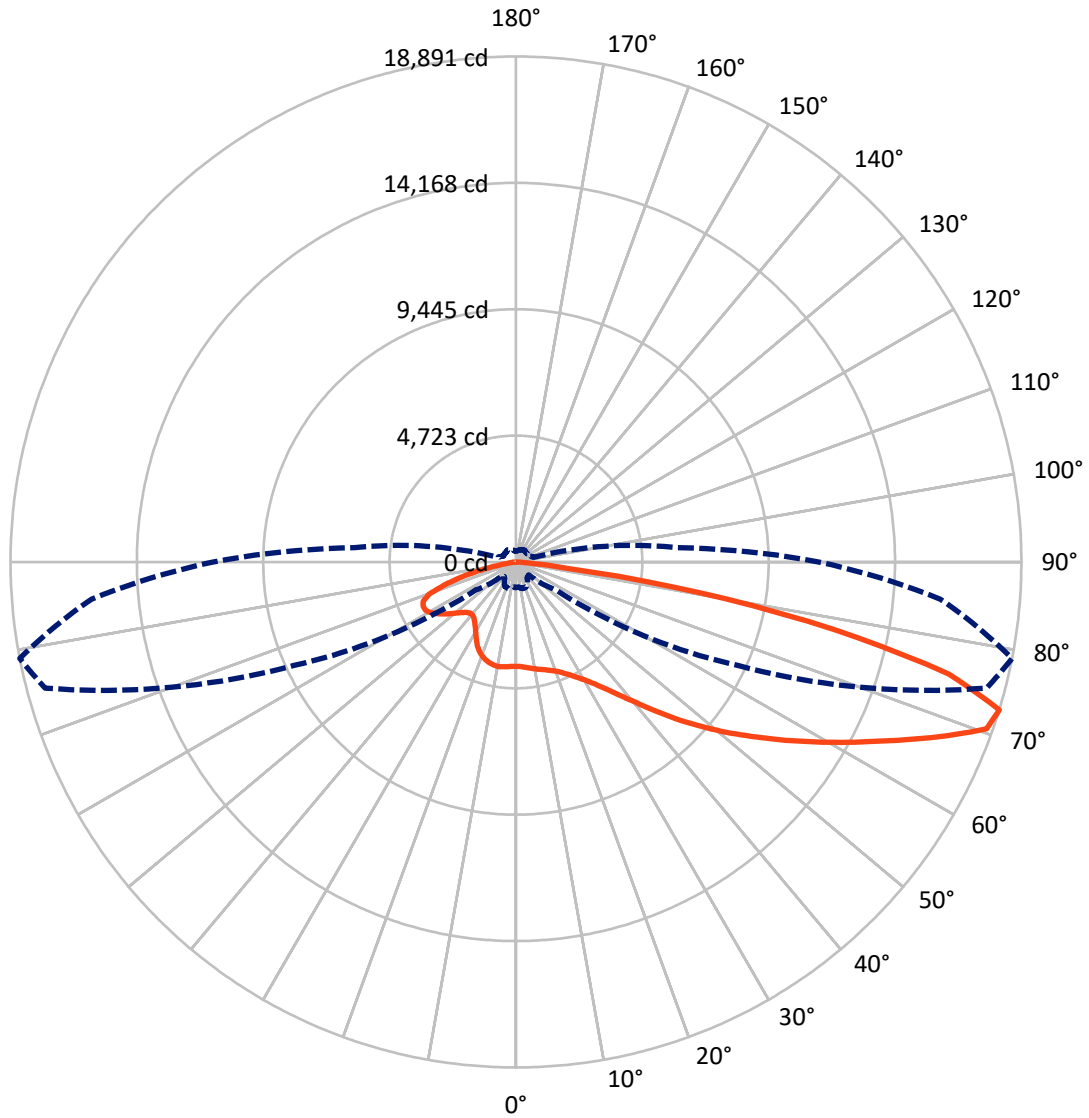
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4273.7	0.0	4273.7
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	15147.3	0.0	15147.3
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	19421.0	0.0	19421.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	353.9	1.8
10°-20°	925.2	4.8
20°-30°	1492.9	7.7
30°-40°	2240.7	11.5
40°-50°	3178.5	16.4
50°-60°	4014.0	20.7
60°-70°	4076.8	21.0
70°-80°	2778.5	14.3
80°-90°	360.5	1.9
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°	19421.0	100.0
0°-180°	19421.0	100.0

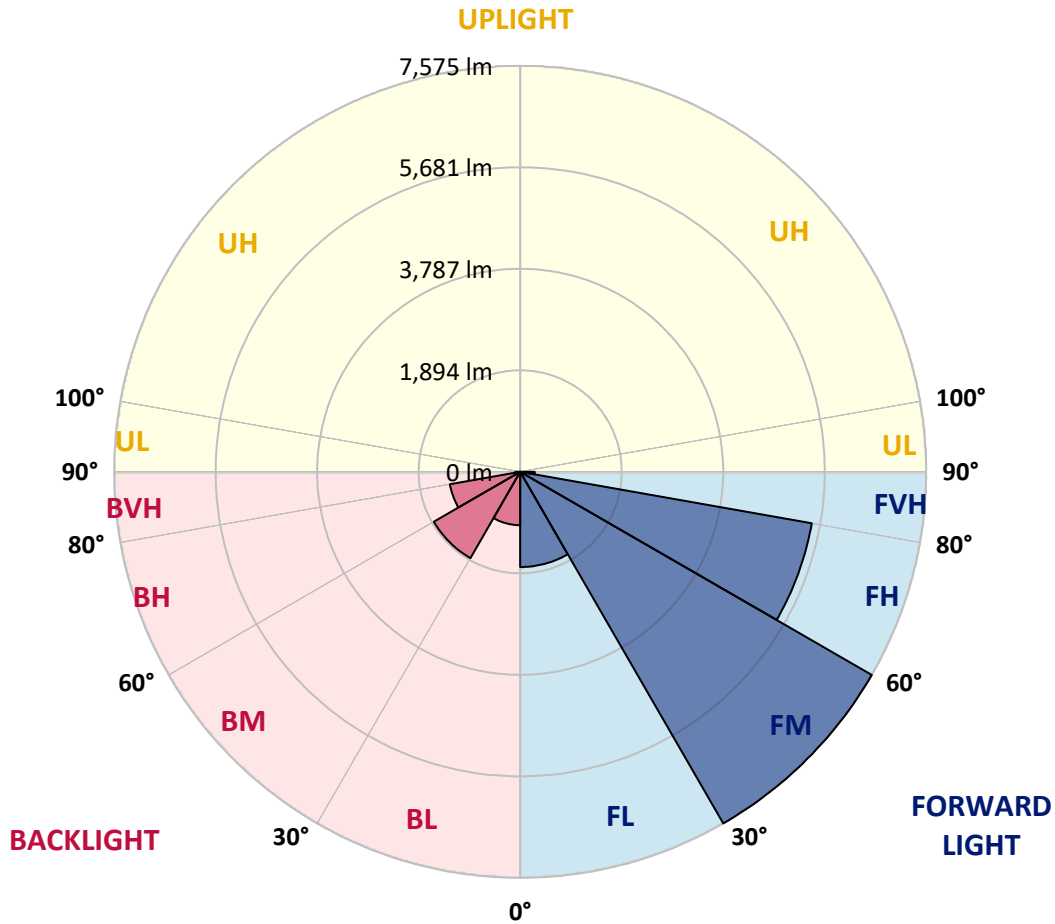


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1776.6	9.1			
FM (30°-60°)	7574.6	39.0			
FH (60°-80°)	5524.6	28.4			G3/7500
FVH (80°-90°)	271.6	1.4			G3/500
BL (0°-30°)	995.5	5.1	B2/1000		
BM (30°-60°)	1858.6	9.6	B2/2500		
BH (60°-80°)	1330.7	6.9	B3/2500		G3/2500
BVH (80°-90°)	88.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	3898.6	3898.6	3898.6	3898.6	3898.6	3898.6	3898.6	3898.6	3898.6	3898.6
2.5°	3900.6	3882.1	3893.4	3889.3	3894.5	3900.6	3902.7	3905.8	3916.0	3915.0
5°	3892.4	3873.9	3889.3	3884.2	3897.6	3911.9	3924.3	3935.6	3952.0	3959.2
7.5°	3875.0	3862.6	3878.0	3893.4	3918.1	3939.7	3957.1	3982.8	4006.4	4010.6
10°	3773.3	3764.0	3800.0	3840.0	3907.8	3966.4	4004.4	4034.2	4059.9	4064.0
12.5°	3667.4	3656.1	3696.2	3750.7	3860.6	3966.4	4046.5	4085.5	4108.1	4121.5
15°	3650.0	3640.7	3663.3	3710.6	3802.0	3938.6	4075.3	4147.2	4166.7	4182.1
17.5°	3734.2	3716.8	3726.0	3742.4	3795.9	3913.0	4097.9	4217.0	4246.8	4263.3
20°	3929.4	3904.7	3890.4	3857.5	3848.2	3917.1	4095.8	4301.3	4340.3	4360.9
22.5°	4189.3	4172.9	4142.0	4058.8	3968.4	3967.4	4134.9	4409.1	4482.1	4501.6
25°	4503.7	4479.0	4440.0	4327.0	4153.4	4067.1	4200.6	4546.8	4669.1	4674.2
27.5°	4865.3	4828.3	4774.9	4625.9	4391.7	4223.2	4301.3	4705.0	4883.8	4881.7
30°	5246.4	5209.4	5152.9	4972.1	4677.3	4433.8	4441.0	4875.5	5138.5	5127.2
32.5°	5524.8	5497.1	5485.8	5346.0	5006.0	4682.4	4601.3	5064.6	5452.9	5442.6
35°	5738.5	5702.5	5715.9	5645.0	5364.5	4960.8	4797.5	5289.5	5835.0	5834.0
37.5°	5950.1	5918.2	5929.5	5882.3	5696.3	5314.2	5036.8	5564.9	6308.6	6331.2
40°	6143.2	6109.3	6154.5	6110.3	5954.2	5690.2	5309.1	5876.1	6857.2	6900.3
42.5°	6259.3	6232.6	6307.6	6308.6	6178.1	6007.6	5608.0	6219.2	7492.1	7588.6
45°	6299.4	6290.1	6403.1	6426.8	6376.4	6191.5	5877.1	6593.2	8176.2	8348.8
47.5°	6256.2	6238.8	6394.9	6482.2	6522.3	6277.8	6100.1	6997.9	8874.8	9127.5
50°	6038.4	6004.5	6236.7	6420.6	6563.4	6334.3	6325.0	7465.3	9668.9	9945.2
52.5°	5647.0	5621.4	5885.4	6204.9	6473.0	6362.0	6577.8	7975.9	10422.9	10780.4
55°	5146.7	5112.8	5403.6	5820.6	6248.0	6352.8	6830.5	8547.1	11312.6	11675.2
57.5°	4353.7	4285.9	4653.6	5146.7	5881.3	6341.5	7093.5	9115.2	12216.6	12651.1
60°	3196.9	3096.3	3547.2	4131.8	5164.2	6231.6	7419.1	9752.1	13301.4	13692.8
62.5°	1861.5	1802.9	2097.7	2643.2	3892.4	5584.4	7602.0	10492.8	14367.7	14778.7
65°	1445.4	1429.0	1454.6	1496.8	2166.6	4181.1	7038.0	11215.0	15723.8	16011.4
67.5°	1322.1	1309.8	1321.1	1242.0	1099.2	2328.9	5567.9	11397.8	17176.4	17351.0
70°	1175.2	1160.8	1197.8	1130.0	865.0	1059.1	3597.6	10734.2	18332.1	18659.8
72.5°	957.4	941.0	1027.3	996.5	728.4	680.1	1807.0	9157.3	18210.8	18890.9
75°	735.5	726.3	829.0	854.7	593.8	535.2	867.0	6806.9	16025.8	16711.0
77.5°	571.2	564.0	616.4	709.9	478.7	415.0	533.2	4317.7	12076.9	12197.1
80°	428.4	407.8	456.1	549.6	372.9	303.1	361.6	2517.9	7633.8	6919.9
82.5°	268.1	257.9	297.9	366.7	263.0	208.5	235.3	1391.0	3059.3	1801.9
85°	153.1	149.0	162.3	209.6	142.8	120.2	134.6	614.3	558.8	384.2
87.5°	61.6	59.6	74.0	93.5	52.4	44.2	47.3	147.9	123.3	114.0
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°
3898.6	0°	3898.6	3898.6	3898.6	3898.6	3898.6	3898.6	3898.6	3898.6	3898.6	3898.6
3914.0	2.5°	3909.9	3909.9	3895.5	3872.9	3847.2	3830.8	3804.1	3796.9	3769.1	3760.9
3948.9	5°	3957.1	3948.9	3904.7	3841.1	3753.7	3673.6	3585.3	3529.8	3451.7	3424.0
4017.7	7.5°	4016.7	3994.1	3918.1	3778.4	3595.5	3415.8	3228.8	3087.0	2951.4	2903.1
4074.2	10°	4071.2	4039.3	3909.9	3665.4	3349.0	3037.7	2739.8	2531.3	2373.0	2308.3
4136.9	12.5°	4125.6	4067.1	3855.4	3477.4	2998.7	2576.5	2259.0	2096.7	1999.1	1921.0
4188.3	15°	4177.0	4094.8	3771.2	3225.7	2614.5	2186.1	1951.9	1822.4	1744.3	1693.0
4263.3	17.5°	4236.6	4118.4	3644.8	2906.2	2248.7	1915.9	1724.8	1646.8	1631.3	1625.2
4366.0	20°	4319.8	4140.0	3478.4	2548.7	1979.6	1700.2	1601.6	1594.4	1593.3	1590.3
4489.3	22.5°	4409.1	4165.7	3258.6	2224.1	1750.5	1565.6	1548.1	1533.8	1524.5	1523.5
4638.2	25°	4515.0	4173.9	2983.3	1958.0	1555.3	1501.9	1481.4	1459.8	1453.6	1453.6
4807.7	27.5°	4617.7	4146.2	2662.7	1726.9	1445.4	1443.3	1416.6	1409.4	1408.4	1411.5
5000.9	30°	4720.4	4093.8	2344.3	1513.2	1381.7	1381.7	1372.5	1377.6	1381.7	1392.0
5265.9	32.5°	4859.1	4038.3	2078.2	1355.0	1326.2	1316.0	1325.2	1335.5	1339.6	1352.9
5614.2	35°	5062.5	3999.3	1866.6	1268.7	1268.7	1255.4	1260.5	1258.4	1249.2	1243.0
6035.4	37.5°	5331.7	3997.2	1692.0	1228.6	1220.4	1218.4	1219.4	1206.0	1170.1	1126.9
6544.9	40°	5655.3	4052.7	1557.4	1200.9	1194.7	1207.1	1200.9	1165.0	1066.3	991.3
7171.5	42.5°	6089.8	4210.9	1471.1	1167.0	1185.5	1200.9	1176.3	1051.9	985.2	934.8
7885.5	45°	6601.4	4467.7	1426.9	1131.1	1168.0	1186.5	1067.4	1012.9	959.5	898.9
8664.2	47.5°	7180.8	4791.3	1416.6	1097.2	1129.0	1140.3	1021.1	996.5	935.9	870.1
9447.0	50°	7811.5	5174.5	1444.4	1057.1	1072.5	1033.5	1005.7	983.1	920.5	855.7
10249.3	52.5°	8463.9	5596.7	1499.8	1002.6	1016.0	972.8	999.6	980.0	911.2	823.9
11078.3	55°	9104.9	6022.0	1553.3	938.9	958.5	918.4	982.1	967.7	869.1	770.5
11962.8	57.5°	9756.2	6445.2	1605.7	882.4	903.0	866.0	954.4	934.8	821.8	721.2
12928.5	60°	10433.2	6856.2	1630.3	828.0	842.4	817.7	912.2	878.3	768.4	670.8
13877.7	62.5°	11067.0	7198.2	1590.3	773.6	782.8	772.5	856.8	811.6	715.0	614.3
14867.0	65°	11702.9	7401.7	1467.0	720.1	722.2	717.1	778.7	739.7	652.3	565.0
15733.0	67.5°	12279.2	7515.7	1270.8	662.6	657.5	655.4	705.8	661.6	591.7	515.7
16391.5	70°	12401.5	7226.0	970.8	594.8	594.8	589.7	625.6	580.4	524.9	463.3
15920.0	72.5°	11326.9	6078.5	689.3	517.8	526.0	515.7	545.5	507.5	457.1	416.1
13720.5	75°	9133.7	4457.4	501.3	438.7	453.0	435.6	463.3	436.6	393.5	392.4
9455.2	77.5°	6275.7	2756.2	363.7	361.6	371.9	349.3	381.1	366.7	327.7	310.2
4115.3	80°	2678.2	1099.2	265.0	279.4	279.4	258.9	295.9	300.0	266.1	257.9
794.1	82.5°	533.2	312.3	185.9	192.1	180.8	174.6	209.6	232.2	320.5	356.5
239.4	85°	160.3	115.1	112.0	104.8	92.5	93.5	123.3	233.2	287.6	164.4
79.1	87.5°	44.2	28.8	29.8	23.6	19.5	25.7	42.1	176.7	96.6	41.1
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>
3898.6
3774.3
3444.5
2909.3
2322.7
1946.7
1702.2
1629.3
1600.5
1534.8
1459.8
1419.7
1399.2
1364.2
1257.4
1128.0
989.3
932.8
894.8
865.0
848.5
817.7
765.3
719.1
667.7
613.3
558.8
509.5
461.3
403.7
353.4
290.7
257.9
357.5
141.8
34.9
0.0

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