

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: P939342

Luminaire Tested: **GALN-SB1D-927-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939342  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1D-927-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

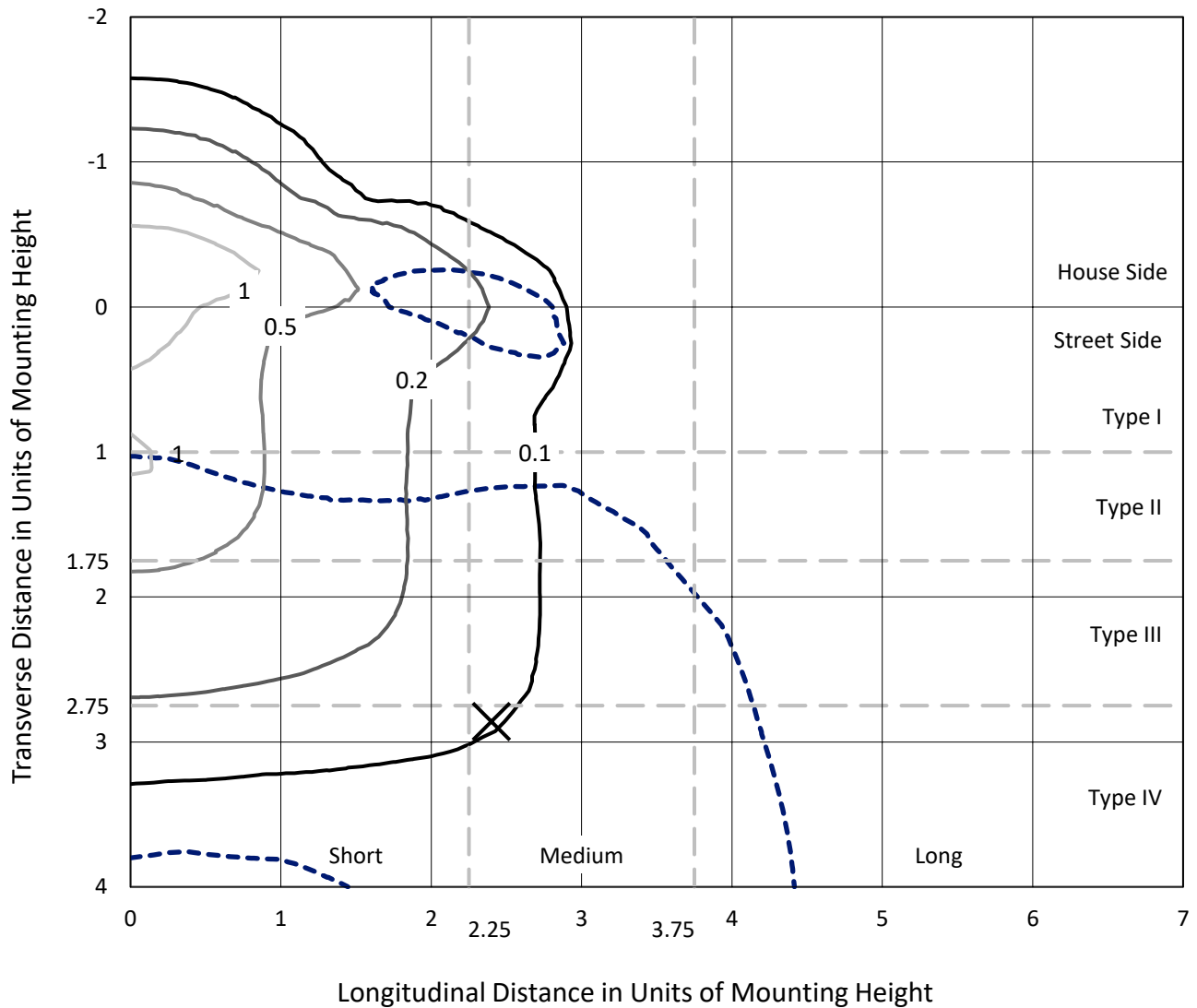
Lumens per Lamp: N/A  
Luminaire Lumens: 6142 lumens  
Efficiency: N/A  
Efficacy: 77.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

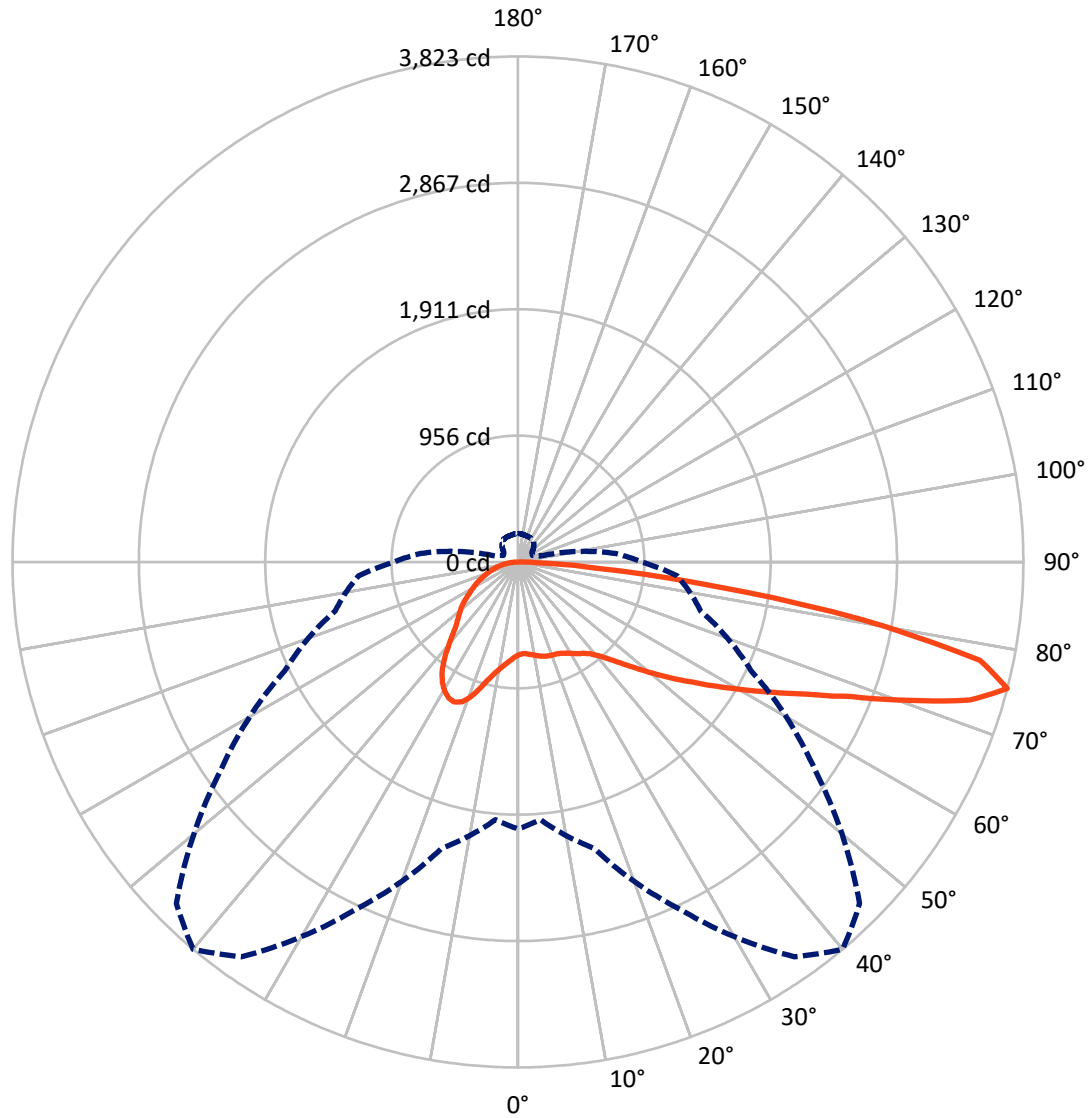
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1903.0	0.0	1903.0
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	4239.0	0.0	4239.0
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	6142.0	0.0	6142.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.1	1.1
10°-20°	235.4	3.8
20°-30°	429.8	7.0
30°-40°	609.6	9.9
40°-50°	823.1	13.4
50°-60°	1107.3	18.0
60°-70°	1405.4	22.9
70°-80°	1275.5	20.8
80°-90°	185.9	3.0
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°	6142.0	100.0
0°-180°	6142.0	100.0

**Coefficient of Utilization**



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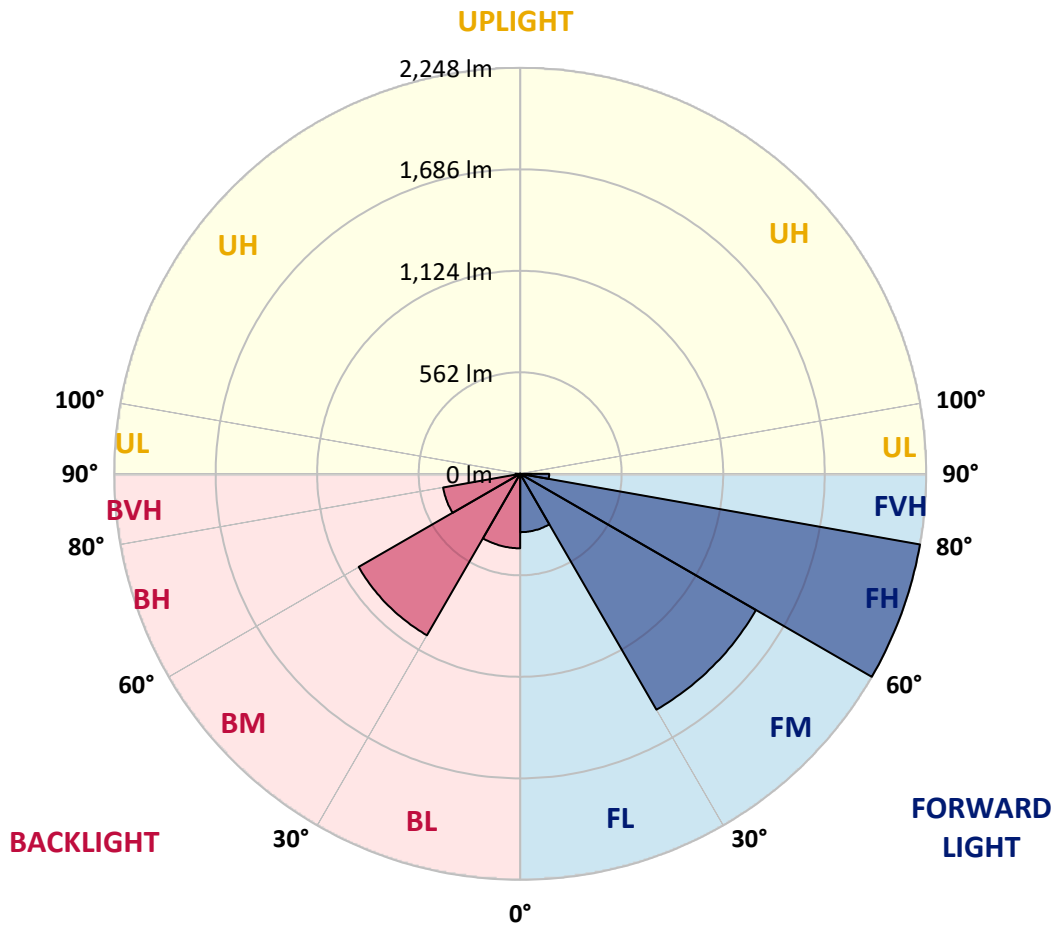
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	323.1	5.3			
FM (30°-60°)	1507.7	24.5			
FH (60°-80°)	2247.9	36.6			G2/5000
FVH (80°-90°)	160.3	2.6			G2/225
BL (0°-30°)	412.2	6.7	B1/500		
BM (30°-60°)	1032.2	16.8	B2/2500		
BH (60°-80°)	433.0	7.0	B1/500		G1/500
BVH (80°-90°)	25.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3
2.5°	691.6	695.5	694.5	693.2	693.2	693.6	693.2	695.5	697.8	700.1
5°	698.8	702.7	700.7	699.1	697.8	697.5	696.5	696.2	697.5	700.4
7.5°	712.8	716.7	713.7	710.8	708.2	706.9	705.6	703.6	702.7	704.3
10°	728.4	732.3	728.7	723.5	719.3	717.7	716.4	714.4	713.1	714.1
12.5°	744.0	748.0	743.1	735.9	730.4	729.4	727.8	727.1	726.8	726.5
15°	758.7	762.0	755.8	747.3	741.4	739.8	738.2	739.2	740.8	742.7
17.5°	770.1	773.4	764.2	753.2	747.6	747.0	746.0	749.3	753.8	758.7
20°	780.5	783.8	772.1	757.1	750.6	750.6	750.9	757.7	764.2	771.4
22.5°	795.2	797.8	783.5	762.9	753.5	754.1	756.7	763.6	771.7	781.5
25°	817.0	819.0	801.4	774.0	763.3	765.2	767.5	770.8	778.6	790.0
27.5°	852.2	853.8	830.7	793.6	777.3	780.5	783.8	781.5	785.1	794.9
30°	901.7	902.7	873.4	824.2	801.1	802.7	803.3	793.9	787.0	794.9
32.5°	960.4	960.0	925.2	861.3	828.1	826.5	820.9	802.4	786.4	793.2
35°	1051.2	1047.7	1002.7	913.4	858.7	848.6	835.6	811.8	789.7	791.6
37.5°	1201.7	1190.7	1128.4	998.8	904.3	878.6	859.4	827.1	796.8	791.0
40°	1371.5	1357.5	1289.0	1115.7	972.7	931.4	900.4	848.9	808.5	793.9
42.5°	1572.8	1552.9	1479.3	1253.5	1059.4	999.4	952.9	876.6	825.8	803.3
45°	1820.0	1793.7	1689.4	1408.9	1168.5	1088.7	1026.5	918.7	852.2	821.6
47.5°	2069.9	2076.4	1928.2	1586.8	1299.5	1198.8	1118.7	981.9	890.6	850.9
50°	2335.4	2340.0	2165.7	1783.9	1448.0	1323.3	1222.3	1052.5	944.1	892.6
52.5°	2542.6	2543.2	2381.3	1990.1	1602.8	1460.1	1334.0	1133.3	1006.0	948.0
55°	2672.2	2670.6	2532.5	2185.2	1780.6	1603.7	1457.8	1225.2	1081.5	1013.1
57.5°	2766.4	2761.5	2636.7	2353.0	1970.2	1773.5	1597.9	1329.4	1170.8	1090.7
60°	2802.2	2799.3	2707.4	2498.0	2169.6	1961.1	1759.4	1446.1	1272.1	1182.2
62.5°	2815.9	2821.4	2776.8	2638.4	2383.0	2168.9	1937.0	1585.5	1386.1	1285.8
65°	2864.1	2874.2	2865.1	2822.1	2624.0	2412.3	2172.5	1751.3	1510.6	1396.9
67.5°	2959.6	2969.7	2973.6	3042.0	2918.5	2715.6	2466.4	1957.8	1656.2	1512.2
70°	2957.3	2954.3	3023.4	3216.9	3287.3	3135.5	2862.5	2211.9	1829.8	1608.0
72.5°	2691.8	2668.3	2831.5	3215.0	3594.1	3574.0	3346.2	2539.7	1979.7	1619.7
75°	2019.4	1956.9	2245.2	2897.3	3645.3	3822.8	3653.8	2742.9	1944.2	1431.1
77.5°	863.6	800.7	1140.5	2144.8	3262.5	3573.6	3371.7	2393.1	1551.9	946.3
80°	226.1	225.8	344.7	972.4	2218.8	2639.0	2315.2	1545.4	886.7	338.1
82.5°	93.5	91.2	126.7	378.2	1084.1	1480.9	1208.6	689.3	320.2	91.5
85°	34.9	34.5	61.6	130.6	382.4	610.8	442.1	176.2	79.8	44.6
87.5°	9.8	9.4	13.4	45.3	93.2	141.4	75.6	29.0	22.5	17.6
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°
702.3	0°	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3
703.6	2.5°	704.6	706.3	709.2	711.5	714.4	717.7	722.2	725.1	728.1	730.0
705.3	5°	707.6	711.1	718.6	726.1	734.9	743.1	752.5	759.4	764.9	766.5
711.1	7.5°	714.1	719.9	732.6	745.3	759.4	772.7	786.4	798.1	807.6	811.2
721.6	10°	725.5	733.3	751.2	769.1	787.7	808.2	825.8	842.7	856.1	861.6
733.9	12.5°	739.8	749.6	773.0	797.8	823.5	851.9	874.7	895.5	912.1	919.6
751.2	15°	758.4	771.1	801.1	834.3	872.1	911.5	940.5	963.6	982.2	991.3
769.1	17.5°	778.6	795.5	833.3	883.5	937.5	989.3	1023.2	1040.2	1059.4	1068.2
785.7	20°	798.1	819.0	873.0	946.0	1018.0	1073.1	1100.4	1105.0	1106.3	1107.3
801.4	22.5°	818.3	846.3	922.9	1024.9	1102.1	1140.2	1144.1	1124.5	1097.2	1084.5
816.7	25°	840.5	877.6	988.0	1111.8	1174.4	1178.9	1149.0	1101.4	1049.6	1025.8
829.1	27.5°	862.0	913.8	1066.2	1194.9	1226.5	1186.4	1121.9	1054.5	991.9	966.9
837.9	30°	883.5	955.1	1152.6	1267.5	1250.3	1167.9	1079.3	1004.0	941.1	914.7
845.7	32.5°	905.3	1003.4	1251.9	1320.0	1246.0	1128.4	1026.2	947.3	891.9	864.3
852.5	35°	930.1	1062.6	1346.1	1348.7	1217.7	1070.5	956.1	879.6	831.3	809.2
860.7	37.5°	962.3	1137.9	1429.1	1355.8	1168.2	985.4	869.1	799.4	759.7	749.6
872.7	40°	1002.4	1228.5	1492.6	1344.4	1094.9	882.2	774.0	718.3	695.8	698.1
889.0	42.5°	1054.5	1329.8	1537.3	1315.1	992.9	775.6	690.6	665.9	676.6	685.7
913.4	45°	1122.3	1435.0	1565.0	1265.3	877.6	685.4	641.4	647.3	655.4	656.4
952.9	47.5°	1208.9	1541.5	1583.2	1190.0	760.0	621.9	610.2	611.5	609.8	603.0
1011.8	50°	1317.1	1645.1	1599.5	1090.3	660.0	582.1	566.5	561.9	539.5	517.3
1090.3	52.5°	1440.2	1740.2	1606.3	966.5	582.1	548.9	523.5	494.8	452.8	446.0
1189.0	55°	1577.0	1828.2	1588.7	814.4	516.7	506.2	467.8	433.3	428.7	422.8
1319.0	57.5°	1740.6	1923.0	1552.9	644.7	449.6	456.4	418.9	422.8	414.7	405.6
1486.1	60°	1919.4	2021.0	1490.0	489.9	380.2	394.2	406.2	405.9	403.6	396.1
1662.4	62.5°	2080.3	2085.5	1366.3	375.3	319.2	346.0	378.9	378.5	376.6	372.3
1846.4	65°	2176.1	2075.8	1159.7	295.5	269.1	306.2	341.7	344.3	344.7	344.3
1984.9	67.5°	2159.2	1961.4	876.3	235.2	227.7	265.8	304.9	308.5	311.1	311.8
2002.5	70°	1967.6	1710.3	571.4	187.6	190.9	230.3	270.1	273.6	275.9	278.5
1737.6	72.5°	1533.7	1257.4	327.1	151.8	158.6	199.7	235.5	239.8	241.1	246.0
1209.2	75°	934.6	739.5	176.6	119.6	130.3	170.7	201.3	206.2	208.5	214.4
593.9	77.5°	444.3	320.2	100.7	93.2	104.9	139.4	170.0	175.6	169.4	172.7
163.9	80°	150.2	118.9	63.5	71.0	80.1	108.8	136.2	141.7	128.7	128.0
54.4	82.5°	52.4	48.2	40.4	47.2	51.8	77.9	102.9	110.1	95.8	95.4
24.4	85°	20.5	19.5	22.5	25.7	30.9	47.9	67.8	71.3	59.0	47.6
7.2	87.5°	4.2	4.6	5.5	5.9	9.4	16.6	24.4	30.0	23.8	20.2
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

180°  
702.3  
728.7  
767.2  
811.5  
862.0  
919.6  
990.6  
1067.9  
1109.9  
1088.0  
1029.4  
969.8  
917.7  
867.8  
814.1  
756.7  
705.9  
694.2  
662.9  
608.2  
520.2  
448.3  
423.8  
403.9  
393.5  
370.7  
344.3  
312.4  
279.8  
247.9  
*215.0*  
170.0  
126.7  
90.9  
46.9  
18.6  
0.0

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