

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: P939347

Luminaire Tested: **GALN-SB1D-927-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939347  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
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-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6200 lumens  
Efficiency: N/A  
Efficacy: 77.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

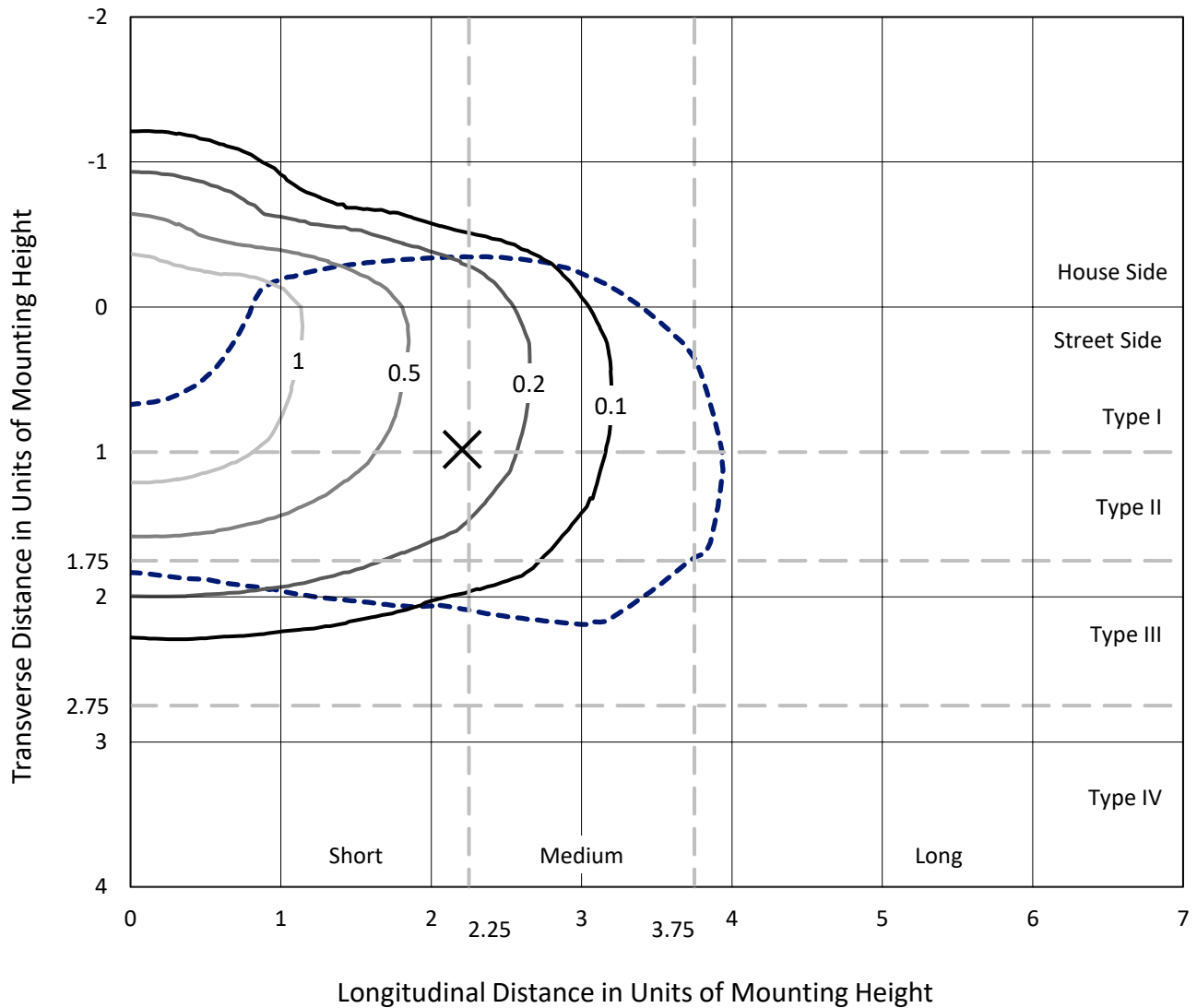
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P939347  
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### Iso-Footcandle Lines of Horizontal Illumination

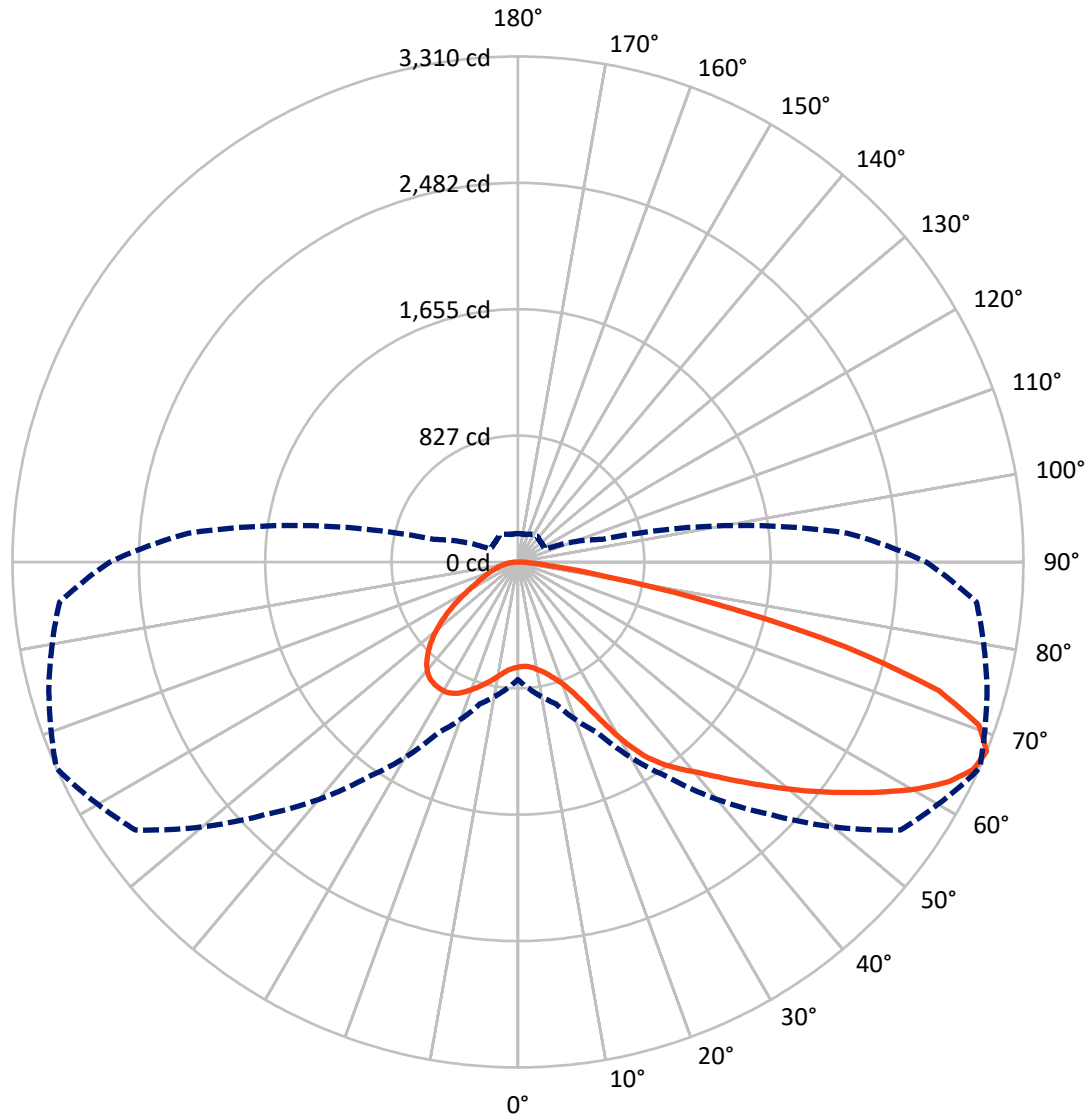
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type III - Short - N/A

REPORT NUMBER: P939347  
CATALOG NUMBER: GALN-SB1D-927-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P939347

CATALOG NUMBER: GALN-SB1D-927-U-T3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1541.6	0.0	1541.6
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	4658.4	0.0	4658.4
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	6200.0	0.0	6200.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.2	1.1
10°-20°	225.3	3.6
20°-30°	434.2	7.0
30°-40°	761.3	12.3
40°-50°	1131.7	18.3
50°-60°	1434.6	23.1
60°-70°	1403.7	22.6
70°-80°	669.6	10.8
80°-90°	71.6	1.2
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°	6200.0	100.0
0°-180°	6200.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P939347

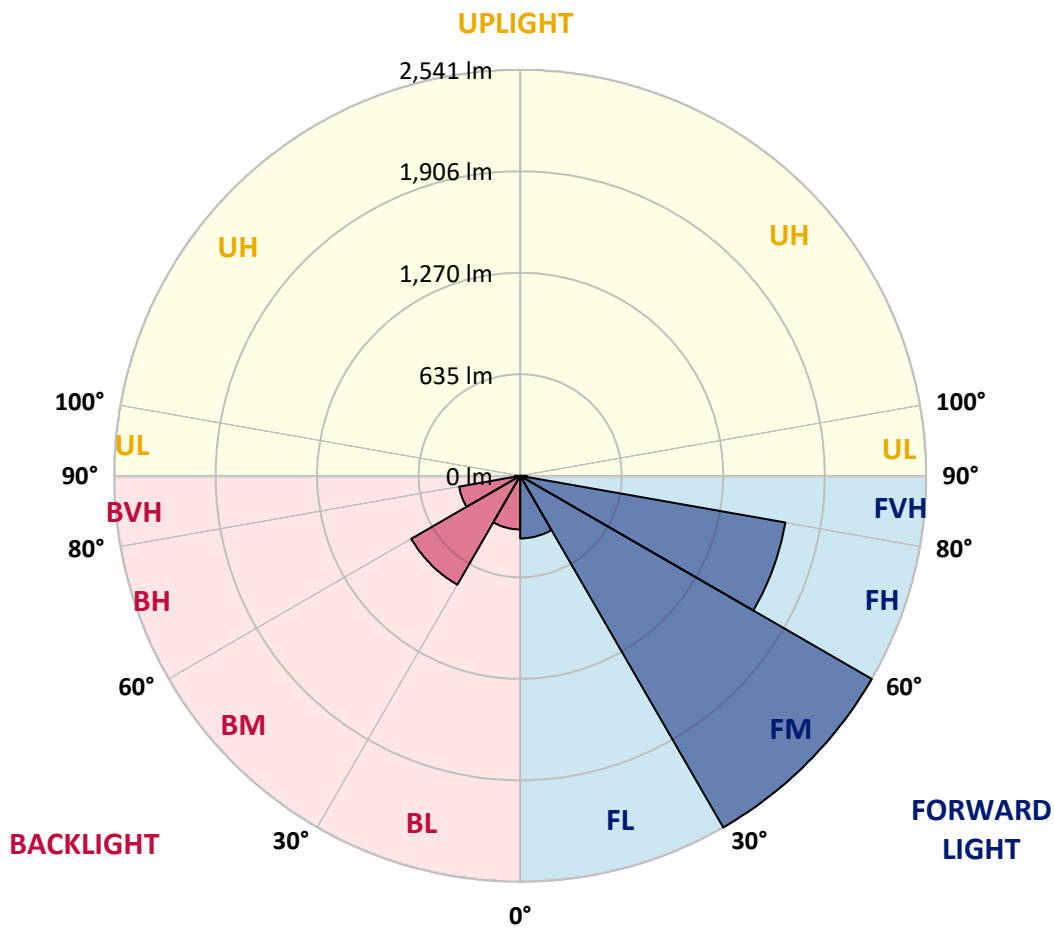
CATALOG NUMBER: GALN-SB1D-927-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	391.8	6.3			
FM (30°-60°)	2540.7	41.0			
FH (60°-80°)	1685.3	27.2			G1/1800
FVH (80°-90°)	40.6	0.7			G1/100
BL (0°-30°)	335.8	5.4	B1/500		
BM (30°-60°)	786.9	12.7	B1/1000		
BH (60°-80°)	387.9	6.3	B1/500		G1/500
BVH (80°-90°)	31.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Short



REPORT NUMBER: P939347

CATALOG NUMBER: GALN-SB1D-927-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	687.7	687.7	687.7	687.7	687.7	687.7	687.7	687.7	687.7	687.7
2.5°	680.5	684.4	683.4	681.8	681.5	682.1	683.1	684.1	683.8	685.4
5°	678.5	682.4	682.1	682.1	683.4	686.0	687.7	689.3	687.7	689.6
7.5°	679.8	682.8	684.1	685.4	688.6	693.5	697.4	701.0	699.1	701.3
10°	696.5	698.7	700.0	700.0	702.3	707.9	711.8	718.3	716.7	720.2
12.5°	726.8	729.0	729.0	727.7	729.4	732.9	734.2	741.4	738.5	744.3
15°	763.9	768.4	764.9	762.6	763.2	766.8	766.5	772.0	769.1	774.0
17.5°	804.9	810.8	804.9	804.6	803.3	807.2	807.5	812.4	807.2	810.8
20°	853.5	861.6	856.7	858.4	855.4	857.1	858.7	865.8	857.7	860.3
22.5°	921.9	931.6	926.4	932.6	930.7	929.4	929.0	941.7	929.0	930.0
25°	1021.6	1033.3	1024.2	1032.6	1032.6	1036.9	1041.8	1058.0	1036.9	1030.7
27.5°	1168.8	1180.5	1162.6	1167.8	1166.2	1176.6	1171.4	1211.8	1189.0	1178.9
30°	1346.0	1366.9	1333.0	1331.7	1330.0	1346.7	1354.2	1380.9	1357.7	1347.6
32.5°	1537.5	1559.4	1519.0	1507.3	1501.1	1511.2	1505.0	1526.5	1510.5	1494.9
35°	1740.2	1761.7	1723.2	1700.4	1675.7	1654.5	1632.3	1637.9	1622.9	1599.1
37.5°	1931.7	1971.1	1930.4	1906.0	1860.4	1819.0	1757.1	1731.4	1717.4	1695.5
40°	2126.8	2149.3	2118.4	2097.5	2048.0	1983.2	1884.1	1829.7	1810.9	1789.7
42.5°	2270.5	2292.0	2275.4	2261.0	2222.3	2147.0	2019.0	1950.9	1923.6	1899.8
45°	2384.5	2400.5	2390.0	2395.3	2378.6	2305.7	2158.8	2080.9	2052.6	2023.6
47.5°	2430.4	2447.4	2464.0	2494.9	2523.3	2469.5	2308.9	2221.6	2191.7	2162.0
50°	2425.2	2442.5	2490.7	2556.5	2644.5	2626.5	2467.2	2371.5	2343.8	2309.9
52.5°	2383.5	2403.1	2465.0	2574.4	2714.5	2744.1	2628.5	2526.2	2500.1	2459.8
55°	2274.1	2285.8	2378.6	2533.7	2731.1	2826.2	2786.5	2691.0	2665.0	2608.6
57.5°	2071.1	2088.1	2223.3	2423.9	2689.4	2881.9	2925.3	2864.3	2839.3	2758.1
60°	1806.3	1833.3	1988.1	2239.5	2583.2	2881.6	3051.3	3034.7	3013.9	2905.4
62.5°	1506.6	1537.9	1686.7	1978.9	2397.5	2799.8	3130.1	3177.4	3166.6	3041.2
65°	1157.1	1178.6	1326.8	1641.8	2108.6	2624.3	3139.3	3274.8	3276.7	3144.5
67.5°	770.4	832.3	961.0	1232.0	1721.6	2337.3	3059.1	3290.7	3309.6	3180.0
70°	375.9	457.4	583.4	800.7	1232.0	1897.2	2849.7	3159.8	3201.8	3076.4
72.5°	156.0	182.4	251.2	395.1	707.2	1280.2	2428.8	2804.7	2882.6	2725.9
75°	105.2	114.0	143.7	202.6	322.2	631.3	1751.6	2091.3	2216.7	2058.8
77.5°	81.1	86.6	104.6	141.7	191.5	238.8	937.5	1260.3	1325.2	1226.8
80°	63.8	68.1	78.2	103.3	135.8	127.7	319.6	571.0	608.5	510.5
82.5°	55.4	57.0	56.0	70.0	90.2	74.6	104.9	210.8	232.6	168.7
85°	40.1	44.6	46.6	43.3	47.9	37.8	43.0	74.6	82.1	73.3
87.5°	16.3	24.1	29.6	28.0	17.6	10.7	13.4	21.8	25.1	27.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939347  
 CATALOG NUMBER: GALN-SB1D-927-U-T3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
687.7	0°	687.7	687.7	687.7	687.7	687.7	687.7	687.7	687.7	687.7	687.7
688.0	2.5°	688.3	690.6	692.2	694.2	695.5	697.4	701.3	703.6	703.9	705.6
693.2	5°	694.5	697.8	701.3	706.6	712.4	717.3	724.8	730.0	732.0	733.6
705.9	7.5°	707.9	712.4	718.9	728.1	736.5	743.0	752.2	758.4	764.5	766.8
726.1	10°	727.7	734.2	743.7	756.1	765.2	773.7	783.1	788.3	794.5	797.1
750.2	12.5°	752.5	759.3	771.7	789.0	797.4	803.3	806.6	805.3	806.6	808.8
779.2	15°	780.8	788.3	802.3	820.9	826.8	821.5	814.4	807.9	806.9	807.5
814.4	17.5°	814.4	819.9	836.2	851.8	847.6	826.1	810.5	800.0	794.8	793.2
859.3	20°	861.3	861.3	874.6	884.4	856.1	819.6	795.2	778.2	767.5	762.9
920.6	22.5°	918.3	913.1	921.6	914.7	854.4	801.3	767.5	738.2	721.9	715.4
1006.2	25°	990.6	984.4	982.1	939.8	842.7	772.4	717.3	681.8	667.5	663.9
1129.7	27.5°	1099.7	1084.1	1054.5	953.5	821.2	726.8	658.7	625.8	617.6	618.0
1288.3	30°	1245.0	1213.8	1141.1	955.8	786.0	662.3	598.7	575.3	571.4	573.0
1421.6	32.5°	1379.6	1349.9	1229.7	945.3	732.0	599.1	545.0	529.3	523.5	525.4
1523.2	35°	1485.1	1477.0	1311.8	930.7	665.5	539.8	496.8	483.4	472.0	469.4
1619.0	37.5°	1584.8	1581.5	1373.4	910.2	599.7	497.7	458.0	440.4	423.8	414.7
1724.9	40°	1694.2	1691.0	1413.8	878.6	541.4	461.3	423.2	400.0	379.5	362.9
1844.7	42.5°	1817.4	1798.1	1433.0	833.3	491.9	430.3	394.8	363.5	336.5	321.2
1980.2	45°	1951.9	1908.6	1432.7	775.6	450.2	402.0	364.5	320.2	295.1	280.8
2119.3	47.5°	2094.6	2014.1	1415.1	711.8	409.8	370.7	317.6	283.7	267.1	258.3
2270.5	50°	2241.8	2112.8	1385.1	638.5	368.4	335.2	288.3	265.2	252.5	244.3
2420.3	52.5°	2380.3	2202.4	1348.9	555.4	326.4	300.7	275.3	257.3	244.0	234.9
2565.6	55°	2508.9	2279.6	1297.8	470.4	292.2	277.5	269.1	254.1	238.8	228.0
2713.2	57.5°	2623.3	2329.8	1209.5	390.6	267.8	261.6	262.6	248.5	231.0	221.8
2858.5	60°	2718.4	2366.6	1078.9	316.6	247.9	245.9	252.5	238.1	217.6	207.2
2981.3	62.5°	2775.4	2365.9	918.6	259.3	231.0	231.6	239.1	225.1	204.2	194.5
3045.5	65°	2770.5	2308.0	742.7	221.8	214.7	215.3	225.1	210.8	193.2	187.3
3013.2	67.5°	2672.5	2166.6	569.7	197.4	196.8	199.7	211.1	201.0	186.3	185.7
2821.0	70°	2407.0	1873.1	410.4	177.9	178.2	182.4	197.4	194.8	182.7	184.0
2371.8	72.5°	1930.1	1428.1	275.6	157.3	157.7	164.5	184.4	189.9	179.2	196.4
1682.8	75°	1285.4	890.6	177.2	135.5	135.8	144.6	173.0	180.5	169.4	195.8
875.6	77.5°	617.6	400.3	128.3	114.0	114.0	122.2	149.5	161.6	144.3	152.1
281.4	80°	213.4	150.5	101.0	91.9	89.9	95.4	126.1	140.1	124.4	114.7
91.9	82.5°	84.0	78.2	81.1	71.3	64.8	68.4	98.1	115.6	91.5	82.7
51.8	85°	48.2	50.8	57.3	47.2	37.5	42.0	72.0	83.1	69.1	60.9
16.9	87.5°	13.0	17.9	26.4	24.4	16.9	17.9	34.2	45.9	39.7	30.6
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

180°  
687.7  
705.3  
733.3  
767.1  
798.4  
809.5  
809.8  
795.5  
761.9  
714.4  
664.5  
618.9  
578.5  
528.0  
471.4  
415.0  
364.5  
322.2  
280.1  
256.4  
241.4  
231.0  
223.8  
216.0  
202.6  
191.5  
187.0  
*186.7*  
183.7  
199.0  
197.4  
139.4  
107.5  
82.4  
62.2  
31.6  
0.0

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