

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: P946425

Luminaire Tested: **GALN-SB2A-827-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946425  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2A-827-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

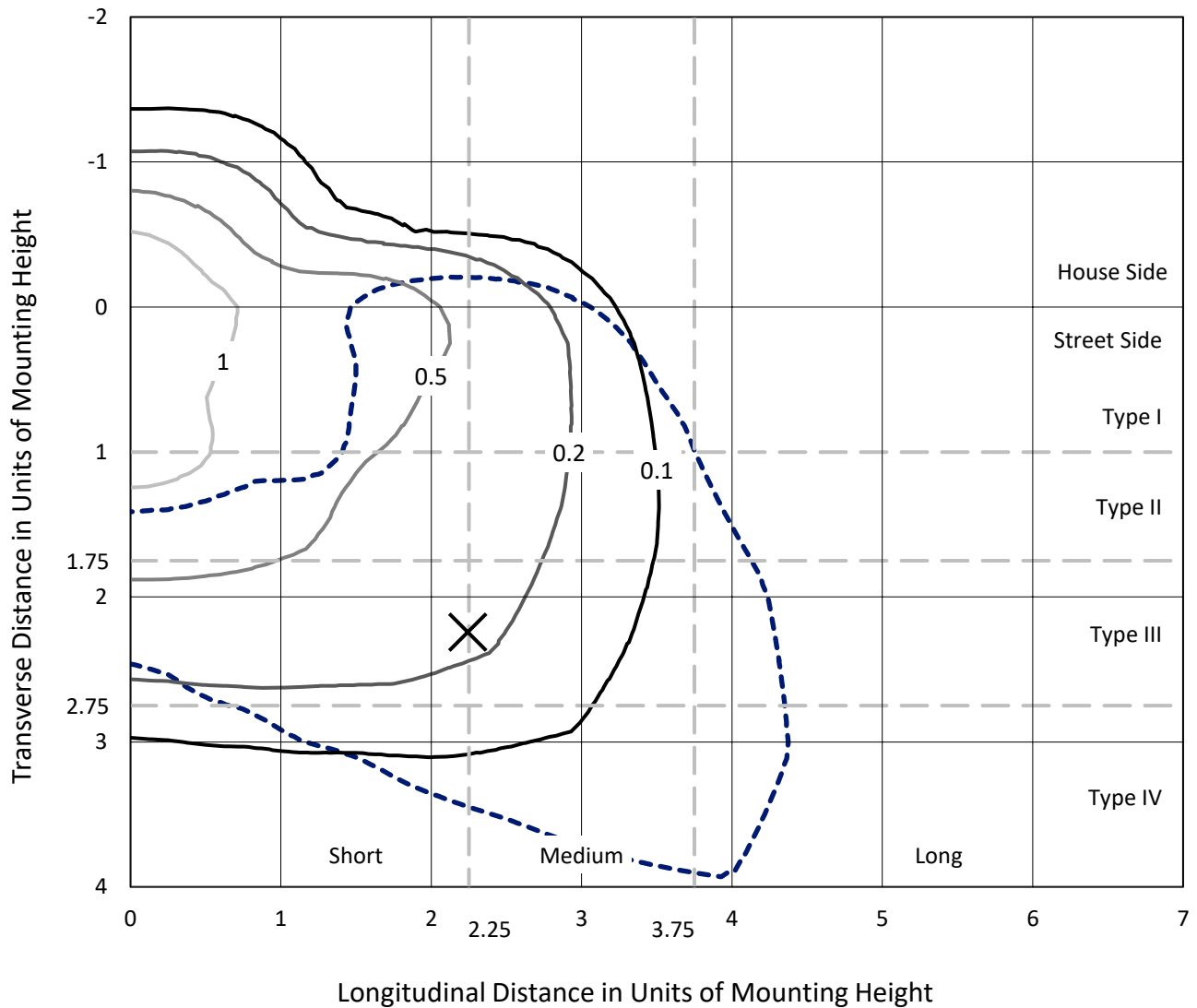
Lumens per Lamp: N/A  
Luminaire Lumens: 7785 lumens  
Efficiency: N/A  
Efficacy: 135.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

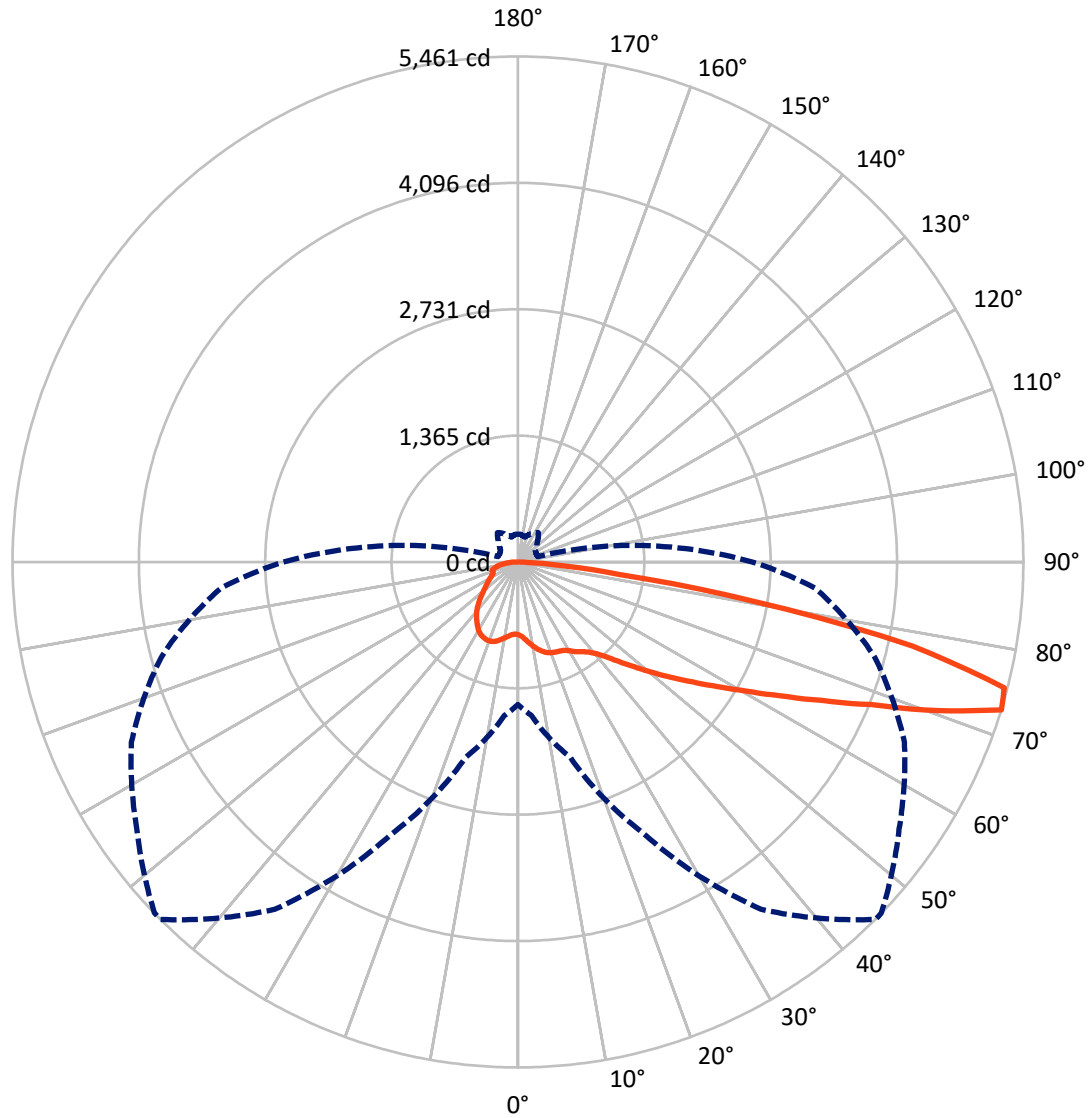
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1759.9	0.0	1759.9
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	6025.1	0.0	6025.1
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	7785.0	0.0	7785.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.9	1.0
10°-20°	266.5	3.4
20°-30°	463.6	6.0
30°-40°	664.6	8.5
40°-50°	935.8	12.0
50°-60°	1433.4	18.4
60°-70°	2076.5	26.7
70°-80°	1658.2	21.3
80°-90°	206.5	2.7
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°	7785.0	100.0
0°-180°	7785.0	100.0

**Coefficient of Utilization**



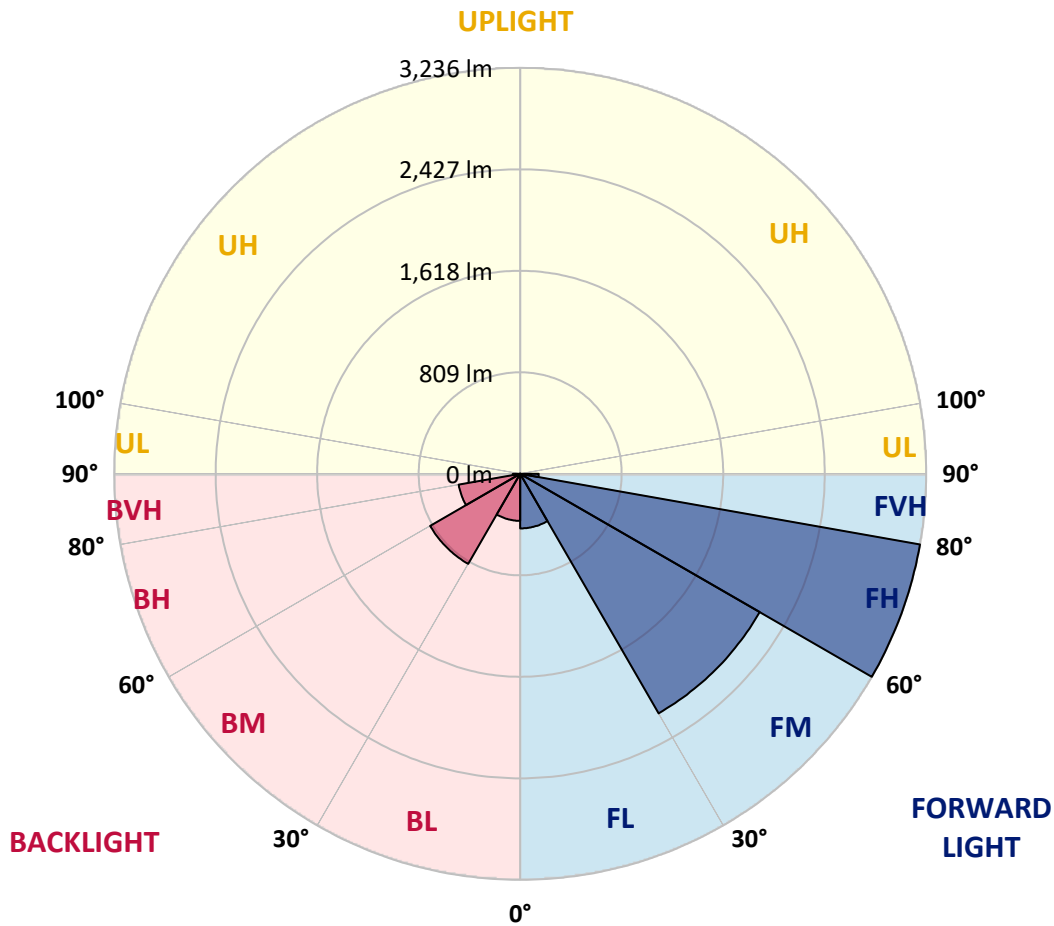
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	435.4	5.6			
FM (30°-60°)	2205.1	28.3			
FH (60°-80°)	3236.5	41.6			G2/5000
FVH (80°-90°)	148.2	1.9			G2/225
BL (0°-30°)	374.7	4.8	B1/500		
BM (30°-60°)	828.7	10.6	B1/1000		
BH (60°-80°)	498.2	6.4	B1/500		G1/500
BVH (80°-90°)	58.4	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	785.4	785.4	785.4	785.4	785.4	785.4	785.4	785.4	785.4	785.4
2.5°	816.1	821.4	816.5	812.0	810.0	804.6	804.2	800.9	798.9	793.1
5°	873.1	880.1	871.9	862.9	854.7	841.5	839.9	830.5	819.8	807.5
7.5°	937.5	943.7	934.2	920.7	906.3	884.6	884.2	867.0	850.2	829.2
10°	993.7	1001.9	989.2	970.7	952.7	928.1	925.2	905.5	884.2	857.1
12.5°	1043.3	1049.1	1036.8	1014.2	993.3	968.7	965.0	943.2	919.5	888.7
15°	1082.7	1090.1	1073.7	1049.5	1027.3	1003.1	999.8	980.2	956.4	924.0
17.5°	1108.5	1114.7	1097.9	1070.8	1049.5	1029.4	1026.9	1010.5	989.6	956.8
20°	1118.4	1124.9	1107.3	1079.8	1060.1	1044.5	1043.3	1031.4	1017.1	987.1
22.5°	1128.2	1134.4	1111.4	1082.7	1065.5	1055.6	1055.2	1047.4	1041.7	1017.1
25°	1168.0	1169.6	1138.9	1097.4	1072.8	1064.2	1063.8	1063.4	1065.9	1046.6
27.5°	1202.4	1202.0	1175.8	1136.8	1098.7	1080.6	1080.2	1084.3	1092.1	1076.1
30°	1252.9	1248.4	1217.2	1176.6	1141.7	1113.9	1111.4	1107.7	1113.9	1101.1
32.5°	1359.9	1345.6	1295.1	1222.9	1177.4	1156.1	1152.8	1129.8	1132.3	1124.5
35°	1513.3	1494.4	1427.2	1310.7	1221.7	1191.4	1189.7	1160.6	1155.7	1148.7
37.5°	1695.8	1672.4	1594.1	1437.8	1298.0	1232.4	1229.9	1203.7	1183.6	1176.2
40°	1879.1	1849.6	1784.8	1592.9	1410.4	1300.9	1293.1	1253.3	1230.3	1218.0
42.5°	2057.1	2032.5	1977.1	1766.7	1549.0	1400.9	1383.7	1315.6	1298.4	1286.9
45°	2214.6	2192.4	2151.8	1952.5	1711.4	1537.1	1520.3	1409.1	1403.8	1403.8
47.5°	2342.5	2337.6	2294.5	2142.0	1902.9	1692.1	1663.0	1539.1	1553.5	1575.6
50°	2484.4	2470.9	2425.0	2328.6	2128.0	1869.7	1845.9	1698.7	1752.4	1813.1
52.5°	2614.8	2622.2	2571.0	2523.0	2382.3	2067.8	2025.9	1886.9	2003.0	2103.4
55°	2748.9	2749.4	2735.0	2728.4	2648.9	2286.8	2240.8	2113.3	2297.8	2422.5
57.5°	2874.9	2875.7	2897.0	2954.8	2958.1	2539.4	2487.3	2391.3	2625.5	2752.6
60°	2987.2	2993.0	3051.2	3186.5	3230.0	2828.9	2779.7	2719.8	2964.3	3092.2
62.5°	3024.9	3045.9	3175.5	3367.8	3498.6	3184.1	3135.7	3100.0	3320.2	3439.2
65°	2961.0	3009.0	3259.5	3517.5	3775.0	3606.1	3558.1	3519.1	3690.1	3802.1
67.5°	2803.9	2865.8	3254.6	3674.6	4110.5	4113.8	4069.1	3977.6	4086.7	4129.8
70°	2390.1	2482.8	2967.9	3733.2	4495.6	4808.1	4765.0	4529.6	4482.5	4274.1
72.5°	1540.0	1664.6	2185.5	3250.5	4581.3	5461.4	5458.9	5027.9	4607.6	3993.6
75°	561.8	638.1	1015.4	2040.3	3845.6	5428.2	5444.2	4942.6	4206.1	3084.8
77.5°	204.6	223.9	331.4	784.1	2365.1	4355.3	4388.6	3951.4	2993.8	1548.2
80°	107.4	118.1	169.8	304.3	1013.4	2586.5	2638.6	2348.3	1407.1	466.3
82.5°	59.5	64.4	95.1	165.3	456.4	1106.1	1137.2	927.7	495.0	197.7
85°	32.0	34.0	44.7	90.2	223.1	383.5	392.1	277.2	197.3	116.1
87.5°	9.4	11.5	14.8	28.7	87.4	86.1	88.2	55.0	77.9	58.6
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°
785.4	0°	785.4	785.4	785.4	785.4	785.4	785.4	785.4	785.4	785.4	785.4
791.5	2.5°	789.0	787.8	783.3	781.3	778.8	778.4	780.4	780.8	781.3	781.7
800.5	5°	796.4	792.3	788.2	785.8	786.6	787.0	791.1	794.0	796.0	797.7
817.3	7.5°	810.8	807.5	800.5	800.1	801.3	805.0	810.4	816.9	820.6	823.5
839.1	10°	832.1	826.0	817.8	819.0	821.4	826.8	837.8	843.2	849.3	854.7
865.7	12.5°	853.8	848.5	839.1	839.9	844.0	853.4	864.1	870.7	874.8	878.9
894.4	15°	882.1	872.7	862.5	862.5	869.8	880.1	885.0	890.3	892.8	897.3
925.2	17.5°	911.3	899.0	885.4	884.6	893.6	898.5	901.4	902.2	903.1	908.0
955.1	20°	940.4	926.8	907.6	905.9	908.0	907.2	906.7	905.9	907.2	913.3
985.9	22.5°	969.1	953.5	926.8	919.5	913.7	905.9	905.5	905.1	905.9	912.1
1019.1	25°	1002.7	983.8	948.2	926.0	906.7	896.1	897.3	897.7	898.5	903.5
1053.6	27.5°	1039.2	1018.3	967.9	924.0	889.1	881.7	879.7	880.9	883.8	891.6
1088.0	30°	1075.7	1051.1	985.9	915.8	867.0	856.7	850.2	853.0	862.0	869.8
1118.0	32.5°	1108.9	1084.3	1000.3	897.7	838.7	822.7	814.1	817.8	826.8	829.6
1151.2	35°	1147.9	1120.0	1006.4	869.0	807.9	783.3	771.8	766.5	771.0	768.1
1190.1	37.5°	1191.4	1162.2	1005.6	831.3	771.8	743.5	727.5	707.4	698.0	688.2
1247.5	40°	1255.7	1213.9	995.7	785.8	727.1	701.3	672.6	638.5	617.2	597.9
1340.2	42.5°	1343.5	1285.7	977.7	735.7	676.7	652.5	613.5	573.7	540.1	508.1
1480.9	45°	1474.3	1379.6	955.1	682.4	622.1	598.3	556.1	511.4	473.3	432.3
1680.6	47.5°	1663.0	1505.9	933.8	621.7	564.7	543.0	504.8	463.4	418.3	378.5
1969.3	50°	1922.2	1687.2	914.1	562.7	508.1	491.7	461.4	419.1	373.6	341.6
2307.7	52.5°	2251.9	1933.7	905.9	505.7	455.2	449.1	424.9	385.5	342.4	315.4
2702.2	55°	2630.4	2228.5	905.9	451.1	408.9	410.9	394.1	357.6	320.3	296.1
3109.0	57.5°	3016.7	2527.1	889.5	400.7	369.5	378.1	367.5	335.5	301.8	276.8
3536.8	60°	3372.7	2777.2	823.1	354.7	334.6	348.2	341.2	313.7	272.7	251.8
3894.4	62.5°	3646.3	2918.3	695.1	318.2	305.9	321.5	317.8	285.0	267.4	258.8
4188.0	65°	3783.2	2895.4	531.5	285.8	281.7	305.9	298.1	296.9	283.0	273.1
4283.6	67.5°	3699.2	2697.7	385.5	262.1	267.8	291.6	321.5	326.4	300.6	281.3
4014.5	70°	3330.5	2340.1	287.1	239.5	250.2	292.0	366.6	341.6	294.9	272.3
3219.8	72.5°	2533.6	1745.0	222.7	215.7	227.2	294.0	386.7	334.6	278.5	301.0
2005.8	75°	1448.9	958.0	178.8	186.6	198.5	274.8	376.5	316.6	265.7	276.4
794.8	77.5°	552.4	368.3	147.6	157.9	159.5	239.9	360.1	315.4	253.0	246.9
238.3	80°	191.5	143.9	122.2	125.5	123.4	213.3	345.3	274.4	207.1	185.4
98.4	82.5°	78.3	71.8	96.8	92.7	87.8	165.7	278.9	224.3	169.4	149.7
47.6	85°	34.0	45.5	64.0	56.2	50.9	114.8	223.5	189.9	143.1	123.4
15.6	87.5°	7.0	17.2	27.1	25.4	26.2	76.7	158.7	134.9	101.3	75.9
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>
785.4
783.3
798.5
824.3
853.4
880.5
899.0
909.6
915.8
916.2
910.0
899.4
878.4
839.9
777.2
694.3
599.2
505.3
427.3
374.0
339.6
313.3
293.6
272.7
248.5
255.9
269.9
278.1
268.6
298.6
276.4
225.1
179.2
148.0
123.0
59.5
0.0

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