

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: P938922

Luminaire Tested: **GALN-SB1B-740-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938922  
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-SB1B-740-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

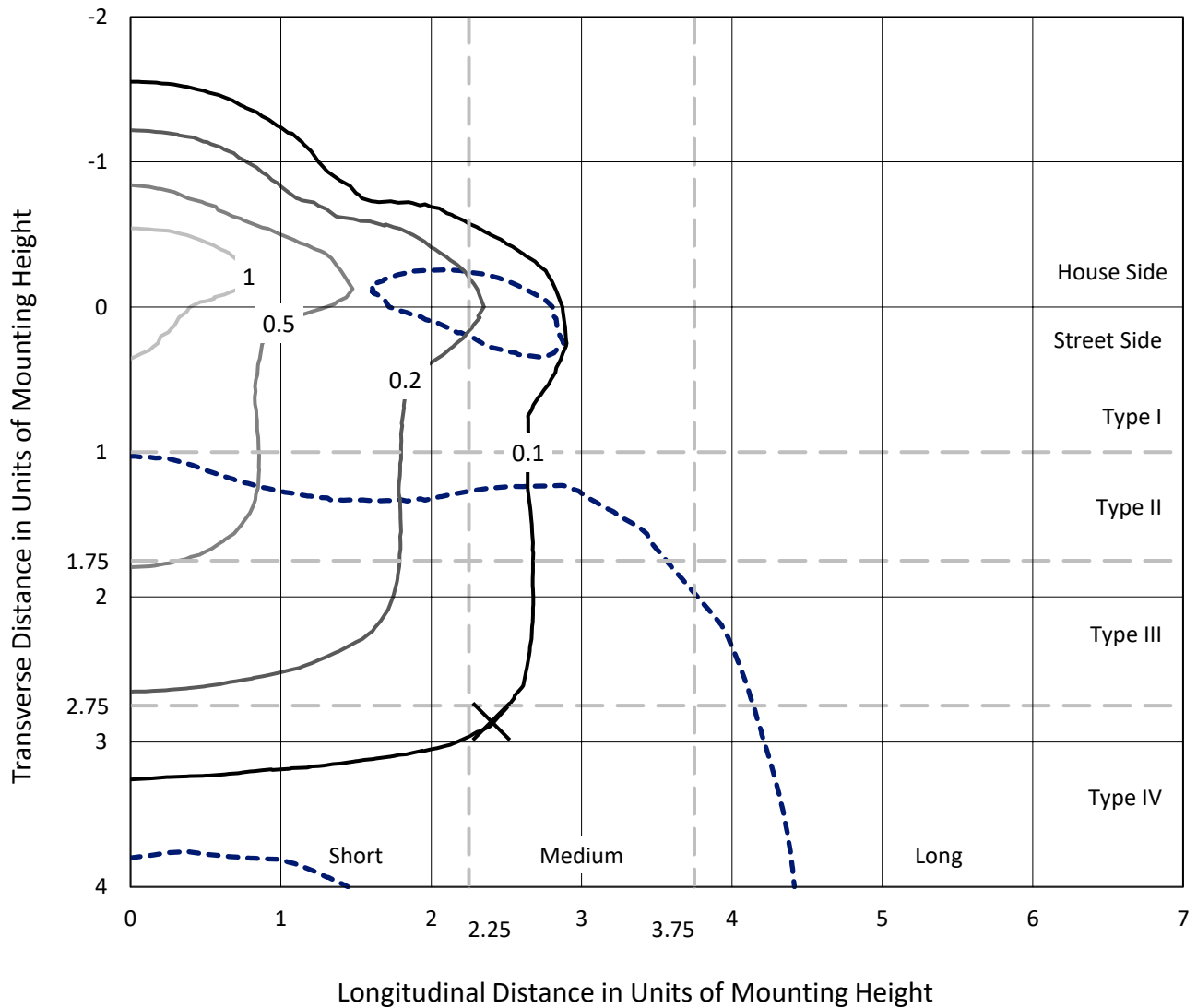
Lumens per Lamp: N/A  
Luminaire Lumens: 5907 lumens  
Efficiency: N/A  
Efficacy: 148.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

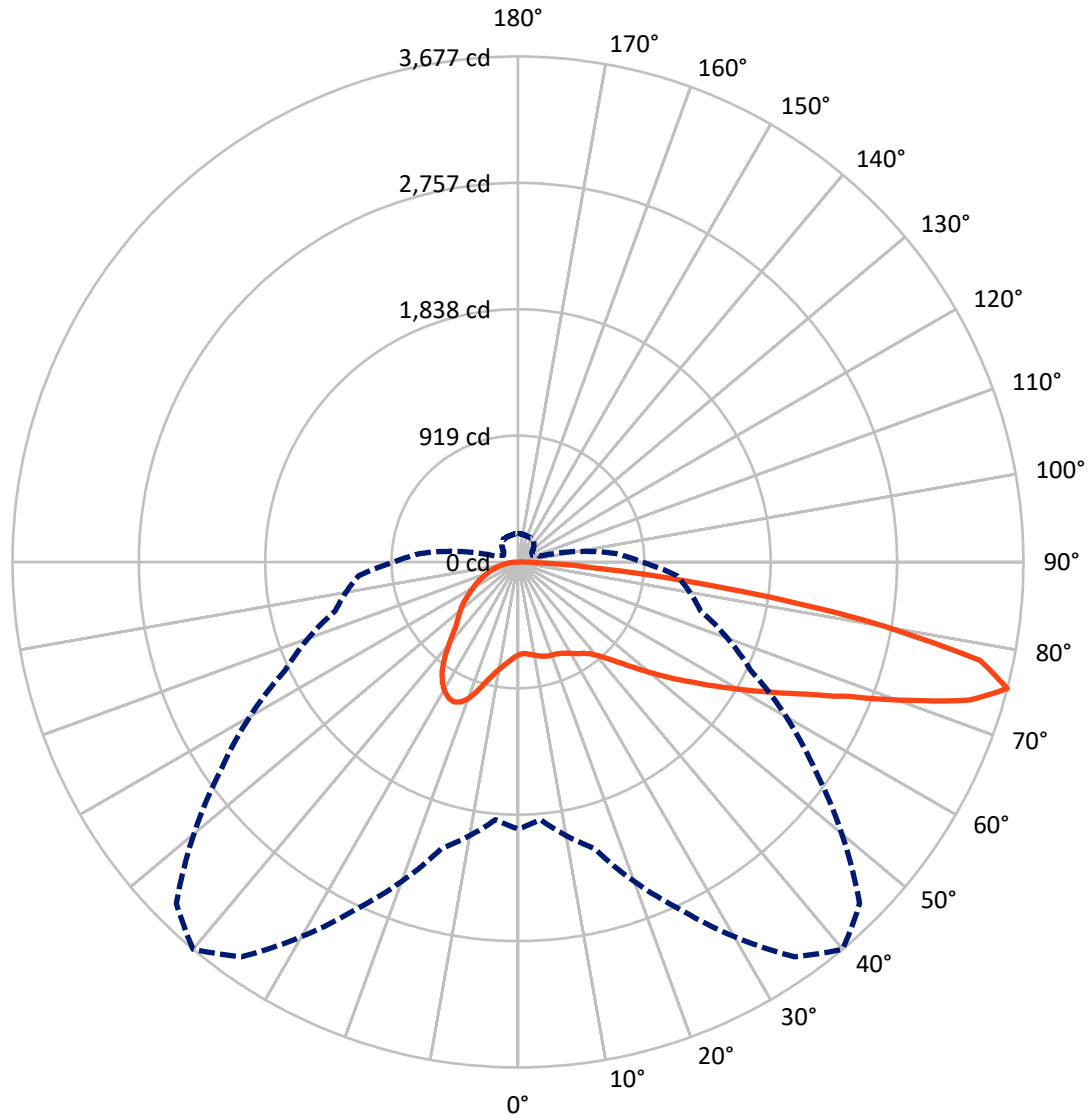
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	1830.2	0.0	1830.2
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	4076.8	0.0	4076.8
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	5907.0	0.0	5907.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.4	1.1
10°-20°	226.4	3.8
20°-30°	413.3	7.0
30°-40°	586.2	9.9
40°-50°	791.6	13.4
50°-60°	1064.9	18.0
60°-70°	1351.6	22.9
70°-80°	1226.7	20.8
80°-90°	178.8	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°	5907.0	100.0
0°-180°	5907.0	100.0

**Coefficient of Utilization**



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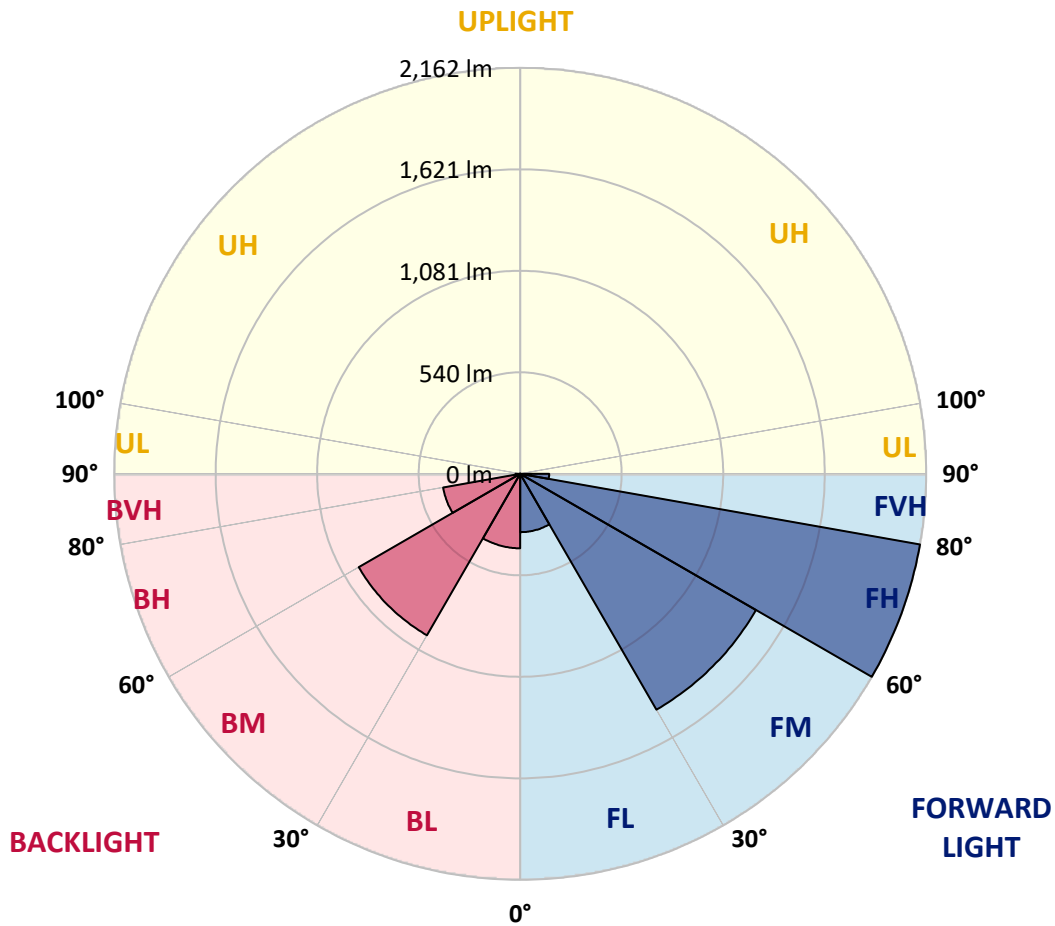
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	310.7	5.3			
FM	(30°-60°)	1450.0	24.5			
FH	(60°-80°)	2161.9	36.6			G2/5000
FVH	(80°-90°)	154.2	2.6			G2/225
BL	(0°-30°)	396.4	6.7	B1/500		
BM	(30°-60°)	992.7	16.8	B1/1000		
BH	(60°-80°)	416.4	7.0	B1/500		G1/500
BVH	(80°-90°)	24.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

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

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	675.5	675.5	675.5	675.5	675.5	675.5	675.5	675.5	675.5	675.5
2.5°	665.1	668.9	668.0	666.7	666.7	667.0	666.7	668.9	671.1	673.3
5°	672.0	675.8	673.9	672.3	671.1	670.8	669.8	669.5	670.8	673.6
7.5°	685.5	689.3	686.4	683.6	681.1	679.9	678.6	676.7	675.8	677.4
10°	700.5	704.3	700.9	695.8	691.8	690.2	688.9	687.1	685.8	686.8
12.5°	715.6	719.3	714.6	707.7	702.4	701.5	699.9	699.3	699.0	698.7
15°	729.7	732.8	726.9	718.7	713.1	711.5	709.9	710.9	712.4	714.3
17.5°	740.6	743.8	735.0	724.3	719.0	718.4	717.5	720.6	725.0	729.7
20°	750.7	753.8	742.5	728.1	721.8	721.8	722.2	728.7	735.0	741.9
22.5°	764.8	767.3	753.5	733.7	724.7	725.3	727.8	734.4	742.2	751.6
25°	785.8	787.6	770.7	744.4	734.1	735.9	738.1	741.3	748.8	759.8
27.5°	819.6	821.2	798.9	763.2	747.5	750.7	753.8	751.6	755.1	764.5
30°	867.2	868.2	840.0	792.6	770.4	772.0	772.6	763.5	756.9	764.5
32.5°	923.6	923.3	889.8	828.4	796.4	794.8	789.5	771.7	756.3	762.9
35°	1011.0	1007.6	964.3	878.5	825.9	816.1	803.6	780.7	759.4	761.3
37.5°	1155.8	1145.1	1085.3	960.6	869.7	845.0	826.5	795.5	766.3	760.7
40°	1319.0	1305.5	1239.7	1073.1	935.5	895.7	866.0	816.5	777.6	763.5
42.5°	1512.6	1493.5	1422.7	1205.6	1018.8	961.2	916.4	843.1	794.2	772.6
45°	1750.4	1725.0	1624.8	1355.0	1123.8	1047.0	987.2	883.5	819.6	790.1
47.5°	1990.7	1997.0	1854.4	1526.1	1249.8	1152.9	1075.9	944.3	856.6	818.3
50°	2246.0	2250.4	2082.8	1715.6	1392.6	1272.6	1175.5	1012.3	907.9	858.4
52.5°	2445.3	2445.9	2290.2	1913.9	1541.4	1404.2	1283.0	1090.0	967.5	911.7
55°	2570.0	2568.4	2435.6	2101.6	1712.5	1542.4	1402.0	1178.3	1040.2	974.4
57.5°	2660.5	2655.8	2535.8	2263.0	1894.8	1705.6	1536.7	1278.6	1126.0	1048.9
60°	2695.0	2692.2	2603.8	2402.4	2086.6	1886.1	1692.1	1390.7	1223.4	1137.0
62.5°	2708.2	2713.5	2670.6	2537.4	2291.8	2085.9	1862.9	1524.8	1333.1	1236.6
65°	2754.5	2764.2	2755.5	2714.1	2523.6	2320.0	2089.4	1684.3	1452.8	1343.4
67.5°	2846.3	2856.0	2859.8	2925.6	2806.8	2611.7	2372.0	1882.9	1592.8	1454.3
70°	2844.1	2841.3	2907.7	3093.8	3161.5	3015.5	2753.0	2127.3	1759.8	1546.4
72.5°	2588.8	2566.2	2723.2	3092.0	3456.6	3437.2	3218.2	2442.5	1903.9	1557.7
75°	1942.1	1882.0	2159.3	2786.5	3505.8	3676.6	3514.0	2638.0	1869.8	1376.3
77.5°	830.6	770.1	1096.9	2062.8	3137.7	3436.9	3242.6	2301.5	1492.6	910.1
80°	217.4	217.1	331.5	935.2	2133.9	2538.0	2226.6	1486.3	852.8	325.2
82.5°	89.9	87.7	121.9	363.7	1042.7	1424.3	1162.3	662.9	308.0	88.0
85°	33.5	33.2	59.2	125.6	367.8	587.4	425.1	169.5	76.8	42.9
87.5°	9.4	9.1	12.8	43.5	89.6	136.0	72.7	27.9	21.6	16.9
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°
675.5	0°	675.5	675.5	675.5	675.5	675.5	675.5	675.5	675.5	675.5	675.5
676.7	2.5°	677.7	679.2	682.1	684.2	687.1	690.2	694.6	697.4	700.2	702.1
678.3	5°	680.5	683.9	691.1	698.3	706.8	714.6	723.7	730.3	735.6	737.2
683.9	7.5°	686.8	692.4	704.6	716.8	730.3	743.1	756.3	767.6	776.7	780.1
694.0	10°	697.7	705.2	722.5	739.7	757.6	777.3	794.2	810.5	823.4	828.7
705.9	12.5°	711.5	720.9	743.5	767.3	792.0	819.3	841.2	861.3	877.2	884.4
722.5	15°	729.4	741.6	770.4	802.4	838.7	876.6	904.5	926.7	944.6	953.4
739.7	17.5°	748.8	765.1	801.4	849.7	901.7	951.5	984.1	1000.4	1018.8	1027.3
755.7	20°	767.6	787.6	839.6	909.8	979.1	1032.0	1058.3	1062.7	1064.0	1064.9
770.7	22.5°	787.0	814.0	887.6	985.6	1059.9	1096.5	1100.3	1081.5	1055.2	1043.0
785.4	25°	808.3	844.0	950.2	1069.3	1129.4	1133.8	1105.0	1059.3	1009.5	986.6
797.3	27.5°	829.0	878.8	1025.4	1149.2	1179.6	1141.0	1079.0	1014.1	954.0	929.9
805.8	30°	849.7	918.6	1108.5	1219.0	1202.4	1123.2	1038.0	965.6	905.1	879.7
813.3	32.5°	870.7	965.0	1204.0	1269.5	1198.4	1085.3	986.9	911.1	857.8	831.2
819.9	35°	894.5	1022.0	1294.6	1297.1	1171.1	1029.5	919.5	845.9	799.5	778.2
827.7	37.5°	925.5	1094.4	1374.4	1304.0	1123.5	947.7	835.9	768.8	730.6	720.9
839.3	40°	964.0	1181.5	1435.5	1293.0	1053.0	848.4	744.4	690.8	669.2	671.4
855.0	42.5°	1014.1	1278.9	1478.5	1264.8	954.9	746.0	664.2	640.4	650.7	659.5
878.5	45°	1079.3	1380.1	1505.1	1216.9	844.0	659.2	616.9	622.5	630.4	631.3
916.4	47.5°	1162.7	1482.5	1522.6	1144.5	730.9	598.1	586.8	588.1	586.5	579.9
973.1	50°	1266.7	1582.2	1538.3	1048.6	634.7	559.9	544.8	540.4	518.8	497.5
1048.6	52.5°	1385.1	1673.6	1544.9	929.6	559.9	527.9	503.5	475.9	435.5	428.9
1143.5	55°	1516.7	1758.2	1528.0	783.2	496.9	486.9	449.9	416.7	412.3	406.7
1268.5	57.5°	1674.0	1849.4	1493.5	620.0	432.4	438.9	402.9	406.7	398.8	390.1
1429.3	60°	1846.0	1943.7	1433.0	471.2	365.6	379.1	390.7	390.4	388.2	381.0
1598.8	62.5°	2000.7	2005.7	1314.0	360.9	307.0	332.7	364.4	364.1	362.2	358.1
1775.8	65°	2092.8	1996.3	1115.3	284.2	258.8	294.5	328.7	331.2	331.5	331.2
1908.9	67.5°	2076.5	1886.4	842.8	226.2	219.0	255.7	293.2	296.7	299.2	299.8
1925.9	70°	1892.3	1644.8	549.5	180.5	183.6	221.5	259.7	263.2	265.4	267.9
1671.1	72.5°	1475.0	1209.3	314.6	146.0	152.6	192.1	226.5	230.6	231.8	236.5
1163.0	75°	898.9	711.2	169.8	115.0	125.3	164.2	193.6	198.3	200.5	206.2
571.1	77.5°	427.3	308.0	96.8	89.6	100.9	134.1	163.5	168.9	162.9	166.0
157.6	80°	144.4	114.4	61.1	68.3	77.1	104.6	131.0	136.3	123.8	123.1
52.3	82.5°	50.4	46.4	38.8	45.4	49.8	74.9	99.0	105.9	92.1	91.8
23.5	85°	19.7	18.8	21.6	24.8	29.8	46.1	65.2	68.6	56.7	45.7
6.9	87.5°	4.1	4.4	5.3	5.6	9.1	16.0	23.5	28.8	22.9	19.4
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>
675.5
700.9
737.8
780.4
829.0
884.4
952.7
1027.0
1067.4
1046.4
990.0
932.7
882.6
834.6
782.9
727.8
678.9
667.6
637.6
584.9
500.3
431.1
407.6
388.5
378.5
356.5
331.2
300.5
269.1
238.4
206.8
163.5
121.9
87.4
45.1
17.9
0.0

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