

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: P945340

Luminaire Tested: **GALN-SB1B-827-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945340  
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-SB1B-827-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

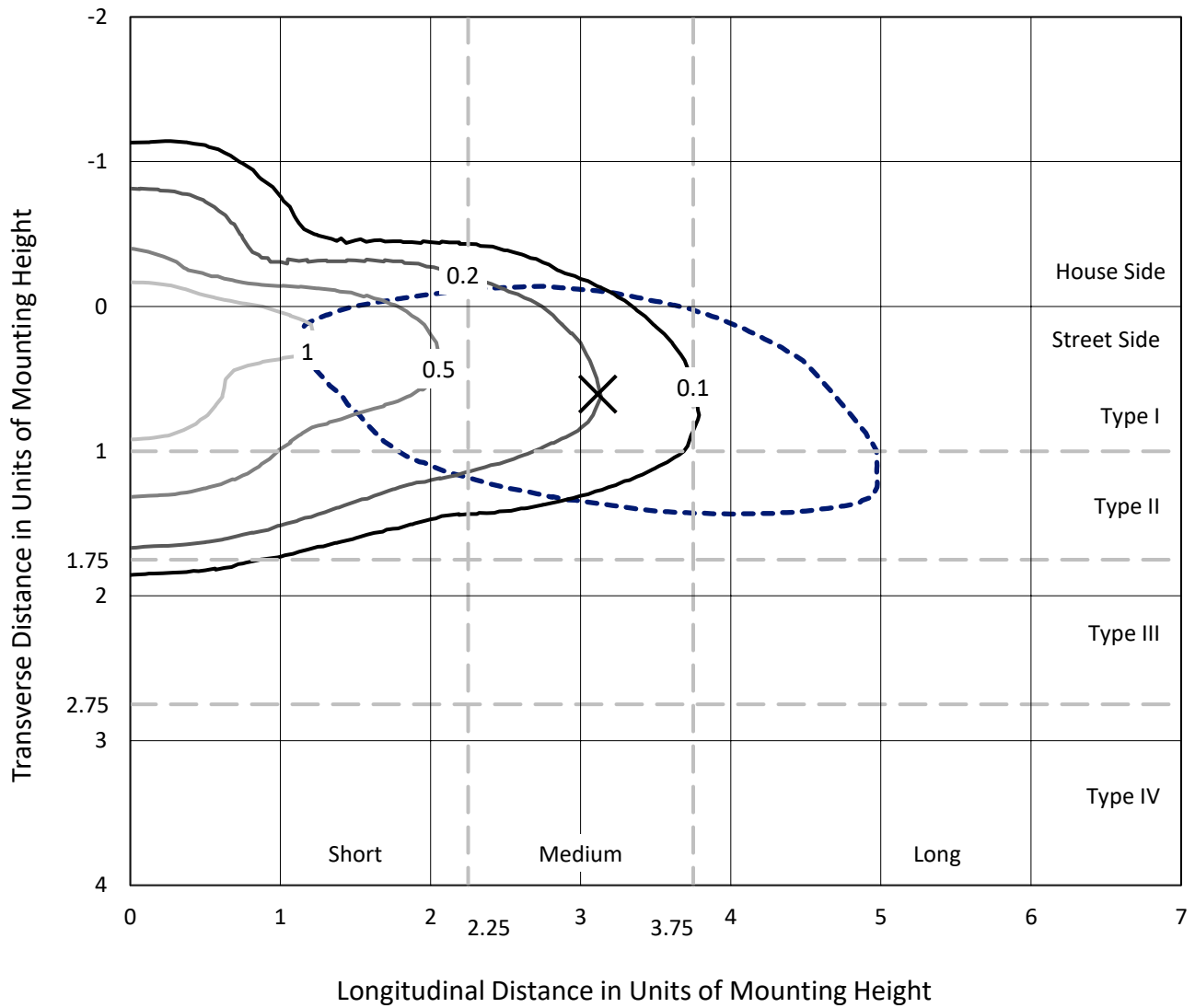
Lumens per Lamp: N/A  
Luminaire Lumens: 4869 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

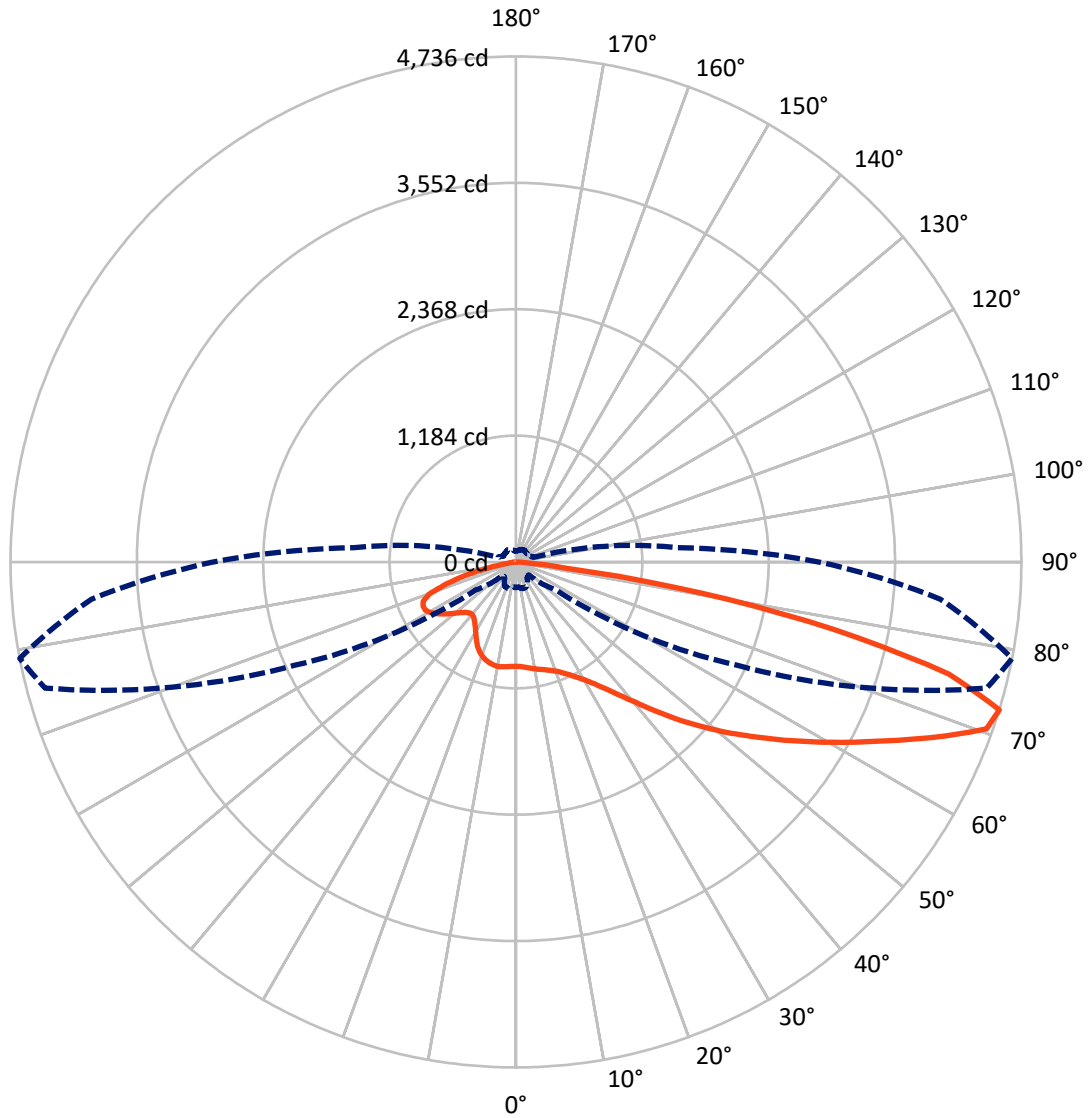
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	1071.4	0.0	1071.4
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	3797.6	0.0	3797.6
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	4869.0	0.0	4869.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.7	1.8
10°-20°	232.0	4.8
20°-30°	374.3	7.7
30°-40°	561.8	11.5
40°-50°	796.9	16.4
50°-60°	1006.3	20.7
60°-70°	1022.1	21.0
70°-80°	696.6	14.3
80°-90°	90.4	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°	4869.0	100.0
0°-180°	4869.0	100.0

**Coefficient of Utilization**

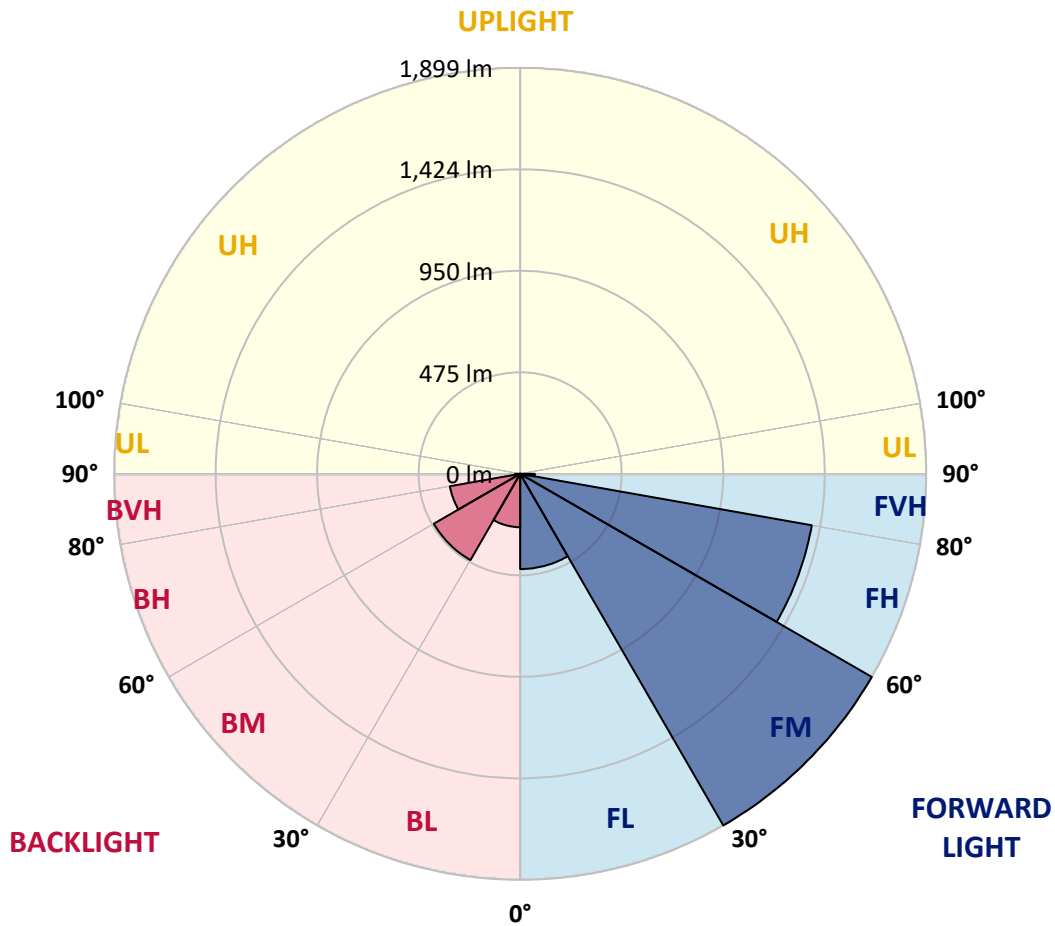


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	445.4	9.1			
FM (30°-60°)	1899.0	39.0			
FH (60°-80°)	1385.1	28.4			G1/1800
FVH (80°-90°)	68.1	1.4			G1/100
BL (0°-30°)	249.6	5.1	B1/500		
BM (30°-60°)	466.0	9.6	B1/1000		
BH (60°-80°)	333.6	6.9	B1/500		G1/500
BVH (80°-90°)	22.3	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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	977.4	977.4	977.4	977.4	977.4	977.4	977.4	977.4	977.4	977.4
2.5°	977.9	973.3	976.1	975.1	976.4	977.9	978.4	979.2	981.8	981.5
5°	975.9	971.2	975.1	973.8	977.1	980.8	983.8	986.7	990.8	992.6
7.5°	971.5	968.4	972.3	976.1	982.3	987.7	992.1	998.5	1004.4	1005.5
10°	946.0	943.7	952.7	962.7	979.7	994.4	1003.9	1011.4	1017.8	1018.9
12.5°	919.5	916.6	926.7	940.3	967.9	994.4	1014.5	1024.3	1029.9	1033.3
15°	915.1	912.8	918.4	930.3	953.2	987.4	1021.7	1039.7	1044.6	1048.5
17.5°	936.2	931.8	934.1	938.3	951.7	981.0	1027.4	1057.2	1064.7	1068.8
20°	985.1	979.0	975.3	967.1	964.8	982.0	1026.9	1078.4	1088.2	1093.3
22.5°	1050.3	1046.2	1038.4	1017.6	994.9	994.7	1036.6	1105.4	1123.7	1128.6
25°	1129.1	1122.9	1113.1	1084.8	1041.3	1019.6	1053.1	1139.9	1170.6	1171.9
27.5°	1219.8	1210.5	1197.1	1159.8	1101.0	1058.8	1078.4	1179.6	1224.4	1223.9
30°	1315.3	1306.0	1291.9	1246.5	1172.6	1111.6	1113.4	1222.3	1288.3	1285.4
32.5°	1385.1	1378.2	1375.3	1340.3	1255.0	1173.9	1153.6	1269.7	1367.1	1364.5
35°	1438.7	1429.7	1433.0	1415.2	1344.9	1243.7	1202.8	1326.1	1462.9	1462.6
37.5°	1491.7	1483.8	1486.6	1474.7	1428.1	1332.3	1262.8	1395.2	1581.6	1587.3
40°	1540.2	1531.7	1543.0	1531.9	1492.8	1426.6	1331.0	1473.2	1719.2	1730.0
42.5°	1569.3	1562.6	1581.4	1581.6	1548.9	1506.2	1406.0	1559.2	1878.3	1902.5
45°	1579.3	1577.0	1605.3	1611.2	1598.6	1552.3	1473.4	1653.0	2049.8	2093.1
47.5°	1568.5	1564.1	1603.3	1625.1	1635.2	1573.9	1529.3	1754.4	2225.0	2288.3
50°	1513.9	1505.4	1563.6	1609.7	1645.5	1588.1	1585.7	1871.6	2424.1	2493.3
52.5°	1415.8	1409.3	1475.5	1555.6	1622.8	1595.0	1649.1	1999.6	2613.1	2702.7
55°	1290.3	1281.8	1354.7	1459.3	1566.4	1592.7	1712.5	2142.8	2836.1	2927.1
57.5°	1091.5	1074.5	1166.7	1290.3	1474.5	1589.9	1778.4	2285.2	3062.8	3171.7
60°	801.5	776.3	889.3	1035.9	1294.7	1562.3	1860.0	2444.9	3334.8	3432.9
62.5°	466.7	452.0	525.9	662.7	975.9	1400.0	1905.9	2630.6	3602.1	3705.1
65°	362.4	358.3	364.7	375.3	543.2	1048.2	1764.5	2811.7	3942.1	4014.2
67.5°	331.5	328.4	331.2	311.4	275.6	583.9	1395.9	2857.5	4306.3	4350.0
70°	294.6	291.0	300.3	283.3	216.9	265.5	901.9	2691.1	4596.0	4678.2
72.5°	240.0	235.9	257.6	249.8	182.6	170.5	453.0	2295.8	4565.6	4736.1
75°	184.4	182.1	207.8	214.3	148.9	134.2	217.4	1706.5	4017.8	4189.6
77.5°	143.2	141.4	154.5	178.0	120.0	104.1	133.7	1082.5	3027.8	3057.9
80°	107.4	102.2	114.4	137.8	93.5	76.0	90.7	631.3	1913.9	1734.9
82.5°	67.2	64.6	74.7	91.9	65.9	52.3	59.0	348.7	767.0	451.7
85°	38.4	37.3	40.7	52.5	35.8	30.1	33.7	154.0	140.1	96.3
87.5°	15.5	14.9	18.5	23.4	13.1	11.1	11.8	37.1	30.9	28.6
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°
977.4	0°	977.4	977.4	977.4	977.4	977.4	977.4	977.4	977.4	977.4	977.4
981.3	2.5°	980.2	980.2	976.6	971.0	964.5	960.4	953.7	951.9	945.0	942.9
990.0	5°	992.1	990.0	979.0	963.0	941.1	921.0	898.9	884.9	865.4	858.4
1007.3	7.5°	1007.0	1001.4	982.3	947.3	901.4	856.4	809.5	773.9	739.9	727.8
1021.4	10°	1020.7	1012.7	980.2	918.9	839.6	761.6	686.9	634.6	594.9	578.7
1037.2	12.5°	1034.3	1019.6	966.6	871.8	751.8	645.9	566.4	525.7	501.2	481.6
1050.0	15°	1047.2	1026.6	945.5	808.7	655.5	548.1	489.3	456.9	437.3	424.4
1068.8	17.5°	1062.1	1032.5	913.8	728.6	563.8	480.3	432.4	412.9	409.0	407.4
1094.6	20°	1083.0	1037.9	872.1	639.0	496.3	426.2	401.5	399.7	399.5	398.7
1125.5	22.5°	1105.4	1044.4	817.0	557.6	438.9	392.5	388.1	384.5	382.2	381.9
1162.8	25°	1131.9	1046.4	747.9	490.9	389.9	376.5	371.4	366.0	364.4	364.4
1205.3	27.5°	1157.7	1039.5	667.6	432.9	362.4	361.9	355.2	353.4	353.1	353.9
1253.8	30°	1183.4	1026.3	587.7	379.4	346.4	346.4	344.1	345.4	346.4	349.0
1320.2	32.5°	1218.2	1012.4	521.0	339.7	332.5	329.9	332.2	334.8	335.8	339.2
1407.5	35°	1269.2	1002.6	468.0	318.1	318.1	314.7	316.0	315.5	313.2	311.6
1513.1	37.5°	1336.7	1002.1	424.2	308.0	306.0	305.5	305.7	302.4	293.4	282.5
1640.9	40°	1417.8	1016.0	390.4	301.1	299.5	302.6	301.1	292.1	267.3	248.5
1798.0	42.5°	1526.8	1055.7	368.8	292.6	297.2	301.1	294.9	263.7	247.0	234.4
1977.0	45°	1655.0	1120.1	357.7	283.6	292.8	297.5	267.6	253.9	240.6	225.4
2172.2	47.5°	1800.3	1201.2	355.2	275.1	283.0	285.9	256.0	249.8	234.6	218.1
2368.4	50°	1958.4	1297.3	362.1	265.0	268.9	259.1	252.1	246.5	230.8	214.5
2569.6	52.5°	2122.0	1403.1	376.0	251.4	254.7	243.9	250.6	245.7	228.4	206.6
2777.4	55°	2282.7	1509.8	389.4	235.4	240.3	230.3	246.2	242.6	217.9	193.2
2999.2	57.5°	2446.0	1615.9	402.6	221.2	226.4	217.1	239.3	234.4	206.0	180.8
3241.3	60°	2615.7	1718.9	408.7	207.6	211.2	205.0	228.7	220.2	192.6	168.2
3479.3	62.5°	2774.6	1804.7	398.7	193.9	196.3	193.7	214.8	203.5	179.3	154.0
3727.3	65°	2934.0	1855.7	367.8	180.5	181.1	179.8	195.2	185.4	163.5	141.7
3944.4	67.5°	3078.5	1884.2	318.6	166.1	164.8	164.3	176.9	165.9	148.3	129.3
4109.5	70°	3109.2	1811.6	243.4	149.1	149.1	147.8	156.8	145.5	131.6	116.2
3991.3	72.5°	2839.8	1523.9	172.8	129.8	131.9	129.3	136.8	127.2	114.6	104.3
3439.8	75°	2289.9	1117.5	125.7	110.0	113.6	109.2	116.2	109.5	98.6	98.4
2370.5	77.5°	1573.4	691.0	91.2	90.7	93.2	87.6	95.6	91.9	82.2	77.8
1031.7	80°	671.4	275.6	66.4	70.1	70.1	64.9	74.2	75.2	66.7	64.6
199.1	82.5°	133.7	78.3	46.6	48.2	45.3	43.8	52.5	58.2	80.4	89.4
60.0	85°	40.2	28.8	28.1	26.3	23.2	23.4	30.9	58.5	72.1	41.2
19.8	87.5°	11.1	7.2	7.5	5.9	4.9	6.4	10.6	44.3	24.2	10.3
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°  
977.4  
946.2  
863.6  
729.4  
582.3  
488.1  
426.8  
408.5  
401.3  
384.8  
366.0  
355.9  
350.8  
342.0  
315.2  
282.8  
248.0  
233.9  
224.3  
216.9  
212.7  
205.0  
191.9  
180.3  
167.4  
153.8  
140.1  
127.7  
115.6  
*101.2*  
88.6  
72.9  
64.6  
89.6  
35.5  
8.8  
0.0

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