

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: P945342

Luminaire Tested: **GALN-SB1B-827-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945342  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
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-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

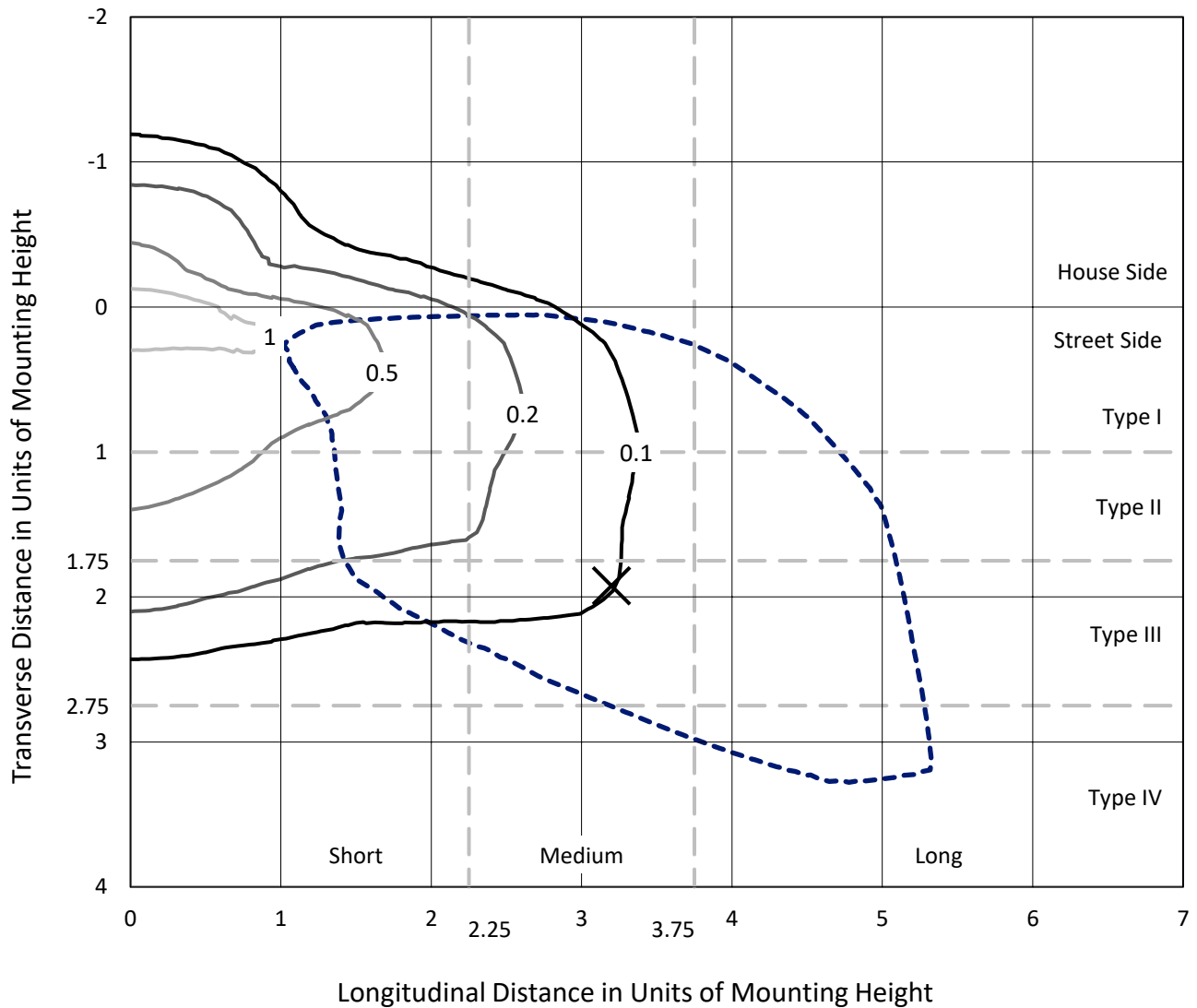
Lumens per Lamp: N/A  
Luminaire Lumens: 4787 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

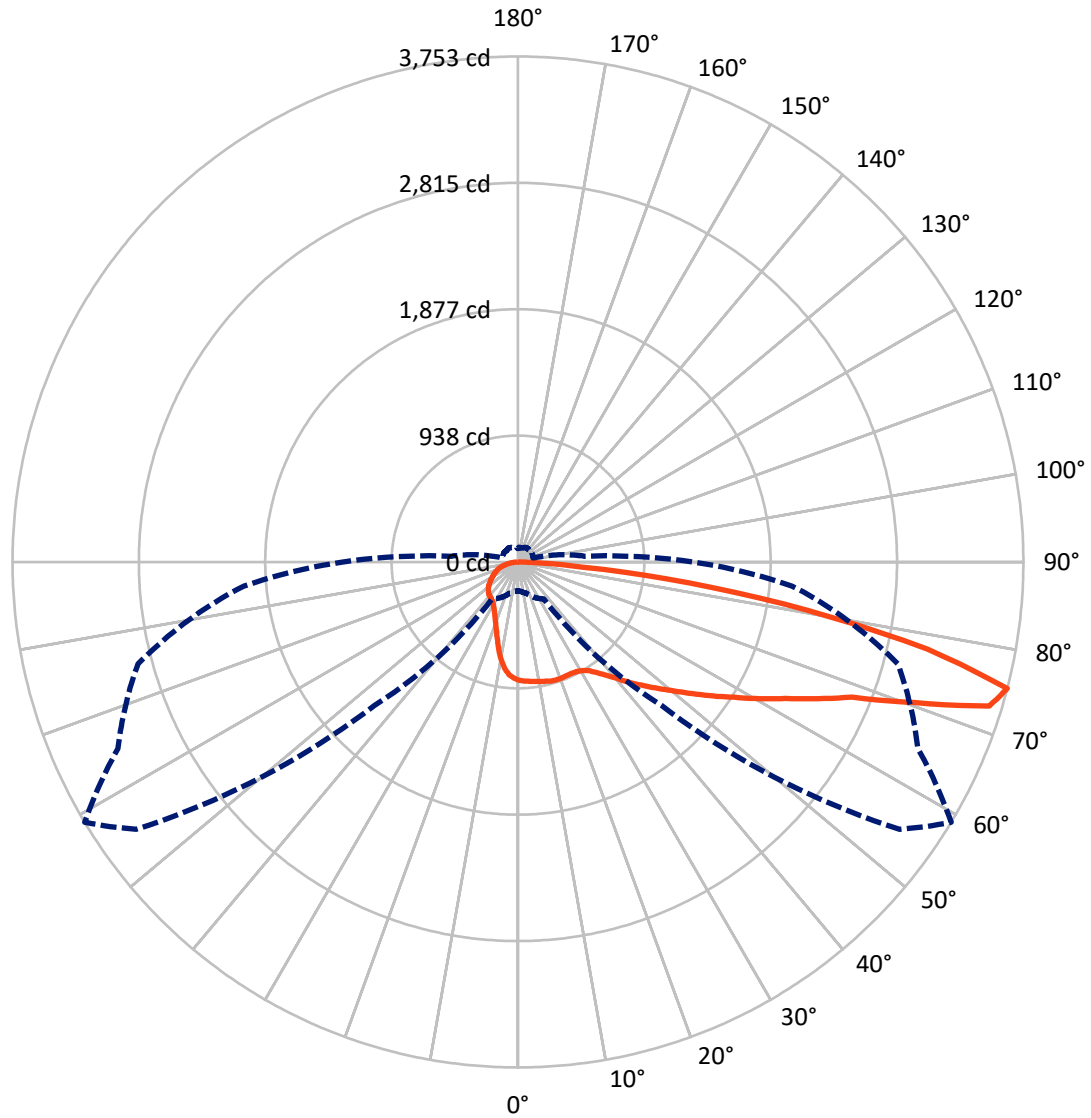
× Max cd  
 - - - 1/2 Max cd



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 59-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	897.8	0.0	897.8
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	3889.2	0.0	3889.2
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	4787.0	0.0	4787.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.8	1.6
10°-20°	201.4	4.2
20°-30°	305.9	6.4
30°-40°	454.7	9.5
40°-50°	676.2	14.1
50°-60°	917.8	19.2
60°-70°	1120.5	23.4
70°-80°	879.4	18.4
80°-90°	152.3	3.2
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°	4787.0	100.0
0°-180°	4787.0	100.0

**Coefficient of Utilization**



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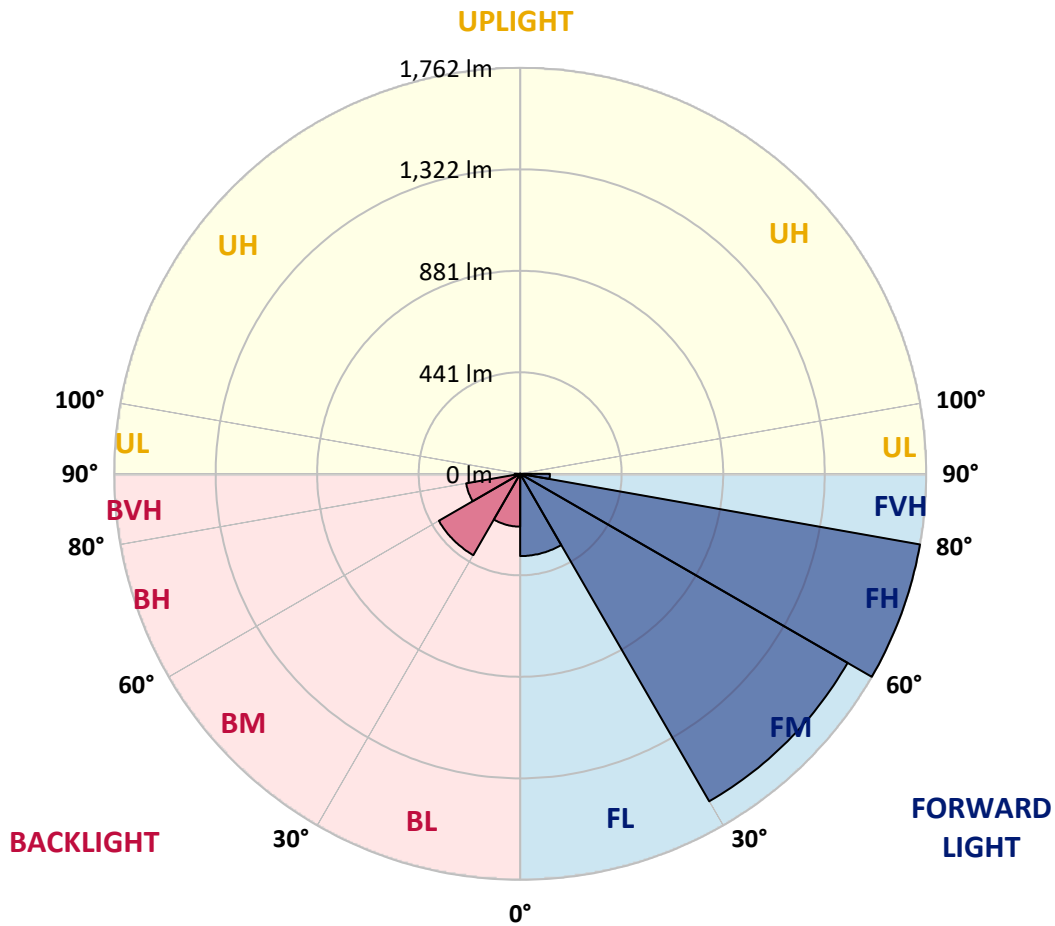
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	356.9	7.5			
FM (30°-60°)	1641.2	34.3			
FH (60°-80°)	1762.0	36.8			G1/1800
FVH (80°-90°)	129.0	2.7			G2/225
BL (0°-30°)	229.1	4.8	B1/500		
BM (30°-60°)	407.5	8.5	B1/1000		
BH (60°-80°)	237.9	5.0	B1/500		G1/500
BVH (80°-90°)	23.3	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-G2**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6
2.5°	886.1	883.0	886.1	884.8	884.3	883.3	883.5	885.3	884.3	885.6
5°	880.2	878.4	881.5	880.7	884.1	884.6	887.9	890.0	891.3	891.5
7.5°	870.4	868.6	873.0	876.6	883.8	885.9	892.8	896.2	898.0	901.0
10°	834.6	833.8	844.7	858.3	875.3	885.9	896.4	902.1	904.9	913.2
12.5°	771.3	772.3	786.5	812.7	846.7	880.7	900.5	908.8	913.2	923.5
15°	710.7	710.5	725.9	754.0	801.6	858.0	902.6	916.8	924.2	939.4
17.5°	675.7	674.7	685.5	706.9	751.2	823.3	897.4	921.1	937.1	956.2
20°	669.3	667.2	672.9	683.4	714.9	785.2	884.1	921.1	947.4	972.1
22.5°	692.7	689.4	687.1	685.8	699.7	753.7	868.9	918.0	962.6	995.0
25°	739.8	734.7	722.8	711.3	707.1	739.6	855.5	917.3	985.3	1025.9
27.5°	816.1	809.6	785.7	757.9	732.9	746.8	849.5	921.9	1010.2	1058.6
30°	910.6	903.6	873.5	830.7	785.9	773.6	857.0	935.6	1042.2	1102.2
32.5°	995.3	987.6	961.8	918.3	857.8	819.9	880.7	961.6	1092.4	1162.7
35°	1070.5	1061.5	1038.3	998.1	945.9	885.1	923.5	1007.7	1163.7	1261.1
37.5°	1144.1	1133.6	1108.3	1065.9	1029.3	971.9	982.4	1066.9	1258.5	1380.5
40°	1226.5	1211.4	1180.7	1138.7	1103.2	1073.6	1059.9	1139.5	1354.8	1513.9
42.5°	1306.4	1292.0	1255.4	1219.6	1175.0	1166.5	1149.8	1224.5	1460.1	1660.5
45°	1392.4	1375.1	1330.8	1285.5	1257.4	1228.3	1236.8	1309.5	1563.4	1809.8
47.5°	1473.0	1453.7	1401.4	1350.9	1335.5	1280.4	1316.7	1402.9	1670.8	1961.2
50°	1516.5	1497.5	1453.9	1408.4	1396.2	1344.5	1403.2	1505.7	1783.3	2112.1
52.5°	1552.8	1532.2	1475.3	1450.1	1446.5	1414.3	1509.8	1623.1	1895.8	2245.5
55°	1591.4	1568.5	1495.9	1473.2	1489.7	1492.6	1636.3	1756.3	2014.8	2375.6
57.5°	1636.0	1606.9	1515.7	1492.8	1532.0	1584.2	1781.5	1894.3	2131.7	2496.1
60°	1678.0	1648.6	1553.8	1524.0	1577.5	1690.6	1948.1	2061.4	2264.1	2603.5
62.5°	1686.2	1662.0	1584.2	1584.0	1639.3	1814.7	2145.4	2230.1	2379.7	2709.6
65°	1543.5	1528.4	1482.3	1581.7	1727.9	1993.4	2365.0	2445.9	2526.7	2802.3
67.5°	1174.8	1176.8	1173.5	1365.3	1656.3	2250.2	2683.1	2676.9	2708.3	2906.3
70°	537.2	549.3	628.1	942.5	1327.0	2279.8	3208.9	3128.8	2936.2	3041.0
72.5°	290.2	299.5	331.7	456.6	797.8	2026.9	3601.9	3658.8	3239.3	3131.6
75°	213.0	218.1	240.5	290.2	335.0	1506.5	3461.0	3753.0	3277.1	2920.2
77.5°	159.4	161.7	180.0	230.0	171.5	794.2	2765.5	3108.2	2805.4	2399.3
80°	115.6	118.2	131.8	172.5	120.3	290.5	1898.9	2181.7	1921.3	1529.4
82.5°	79.8	80.9	86.8	117.4	84.0	112.8	1077.4	1279.3	1072.6	536.7
85°	48.2	49.4	52.0	68.5	47.6	53.6	465.1	481.0	320.6	128.2
87.5°	19.8	21.1	23.2	28.8	18.8	14.9	76.7	96.3	60.0	37.6
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°
878.6	0°	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6
881.2	2.5°	879.9	878.1	873.2	866.5	860.4	852.6	849.3	846.5	843.9	839.0
888.2	5°	885.3	880.4	867.3	850.3	831.0	809.9	789.3	775.1	763.0	754.0
896.2	7.5°	893.6	884.3	860.4	825.6	781.3	736.0	695.0	665.9	644.0	636.1
907.5	10°	902.1	891.0	849.3	788.0	711.5	641.7	587.4	557.5	540.0	534.3
920.9	12.5°	912.1	895.9	832.0	735.7	633.5	557.0	509.6	492.1	483.1	480.0
937.4	15°	926.8	900.0	806.0	670.3	559.1	495.2	464.6	452.5	447.8	447.6
954.4	17.5°	937.9	900.8	765.6	600.3	501.9	457.9	432.6	428.0	431.1	435.7
971.1	20°	950.2	893.8	712.5	536.4	461.7	425.2	414.6	417.7	425.2	431.9
993.2	22.5°	959.0	881.2	648.4	486.7	427.0	406.4	405.8	412.3	416.4	419.8
1019.2	25°	966.7	859.8	580.4	445.0	398.4	395.0	400.7	398.6	395.8	398.6
1045.3	27.5°	972.4	826.1	519.7	408.4	378.3	387.3	384.0	379.3	379.1	380.6
1075.9	30°	970.6	781.0	469.7	373.7	364.1	372.9	364.9	364.1	363.4	364.1
1122.0	32.5°	970.6	729.8	431.3	349.7	355.1	351.8	351.0	349.2	346.1	345.8
1184.6	35°	976.0	678.6	398.4	336.8	347.6	339.7	340.2	335.8	329.4	326.3
1267.5	37.5°	987.1	637.4	365.7	330.7	334.5	334.3	332.2	324.7	313.4	303.6
1371.0	40°	1013.8	625.2	343.3	327.8	328.3	331.4	326.0	311.6	285.8	269.9
1476.1	42.5°	1055.8	645.6	338.4	320.9	324.2	327.3	316.7	283.3	265.0	255.5
1586.3	45°	1109.1	681.1	348.9	310.8	314.4	319.8	288.4	272.5	264.2	264.5
1695.5	47.5°	1176.6	718.5	368.5	302.1	300.3	303.4	269.6	259.8	248.5	251.3
1800.3	50°	1254.6	756.3	387.0	290.2	284.6	274.5	257.5	248.2	233.8	227.1
1901.5	52.5°	1339.1	792.9	394.5	275.8	267.6	256.0	249.3	237.9	220.4	209.4
1997.0	55°	1419.2	826.1	386.3	258.5	250.6	241.5	240.5	233.6	214.8	199.3
2082.0	57.5°	1494.9	853.9	365.7	241.0	233.3	227.9	234.9	231.5	207.8	188.0
2162.4	60°	1559.0	873.0	335.8	223.3	217.9	215.0	225.6	224.6	198.0	175.9
2234.5	62.5°	1610.0	880.4	302.8	206.3	205.0	199.8	212.7	212.7	185.7	164.0
2297.8	65°	1649.9	873.2	269.4	189.5	192.1	184.4	197.0	195.5	172.5	153.5
2370.7	67.5°	1685.2	849.5	232.3	173.1	179.0	169.2	180.5	176.9	158.1	142.9
2433.8	70°	1700.9	794.4	190.0	156.6	163.8	154.3	164.0	157.3	141.9	131.6
2364.5	72.5°	1574.7	660.3	149.6	139.3	145.5	137.8	146.3	138.5	124.4	119.7
2041.8	75°	1302.8	495.5	115.1	120.5	125.2	119.2	124.9	119.2	106.4	109.7
1508.3	77.5°	946.1	334.5	88.1	100.7	102.7	99.7	104.6	98.1	86.5	85.8
751.7	80°	470.5	196.0	69.0	79.6	78.8	76.7	82.4	79.3	69.5	73.6
202.9	82.5°	136.2	84.0	50.2	55.9	54.3	54.9	59.0	60.5	90.6	89.9
63.1	85°	42.7	33.0	30.1	31.2	29.6	30.4	34.8	69.0	63.9	37.3
19.6	87.5°	11.1	11.3	7.5	8.0	8.2	9.8	11.1	42.0	20.1	13.1
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>
878.6
836.7
746.5
622.2
525.6
480.8
448.6
437.5
434.2
421.6
400.4
383.2
367.0
349.2
329.4
307.0
271.9
255.5
265.8
258.5
228.9
209.1
199.3
187.0
175.1
163.3
152.4
141.9
129.5
115.9
100.2
81.9
72.9
91.9
40.4
13.9
0.0

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