

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: P938915

Luminaire Tested: **GALN-SB1B-735-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938915  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1B-735-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5581 lumens  
Efficiency: N/A  
Efficacy: 140.2 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

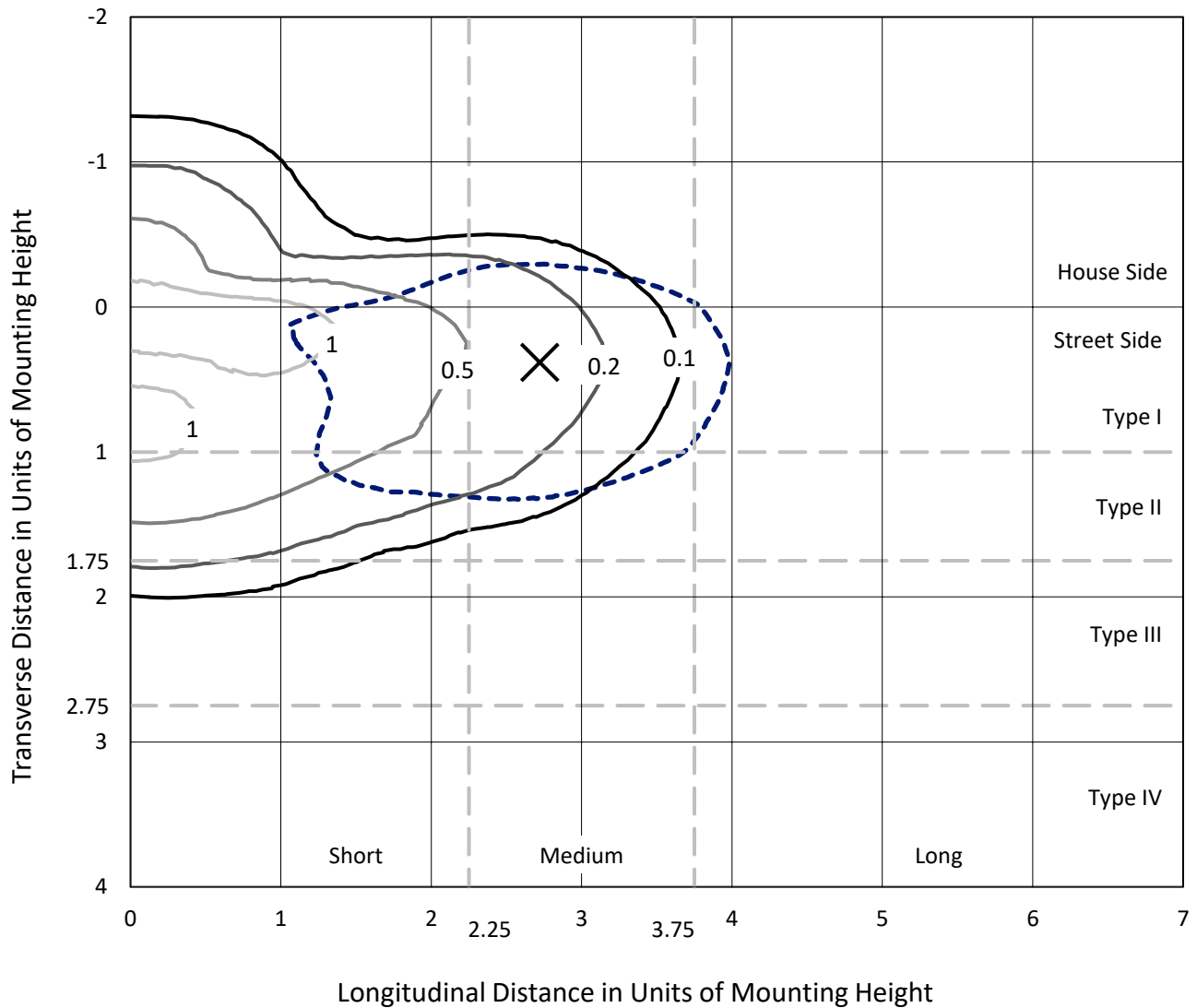
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

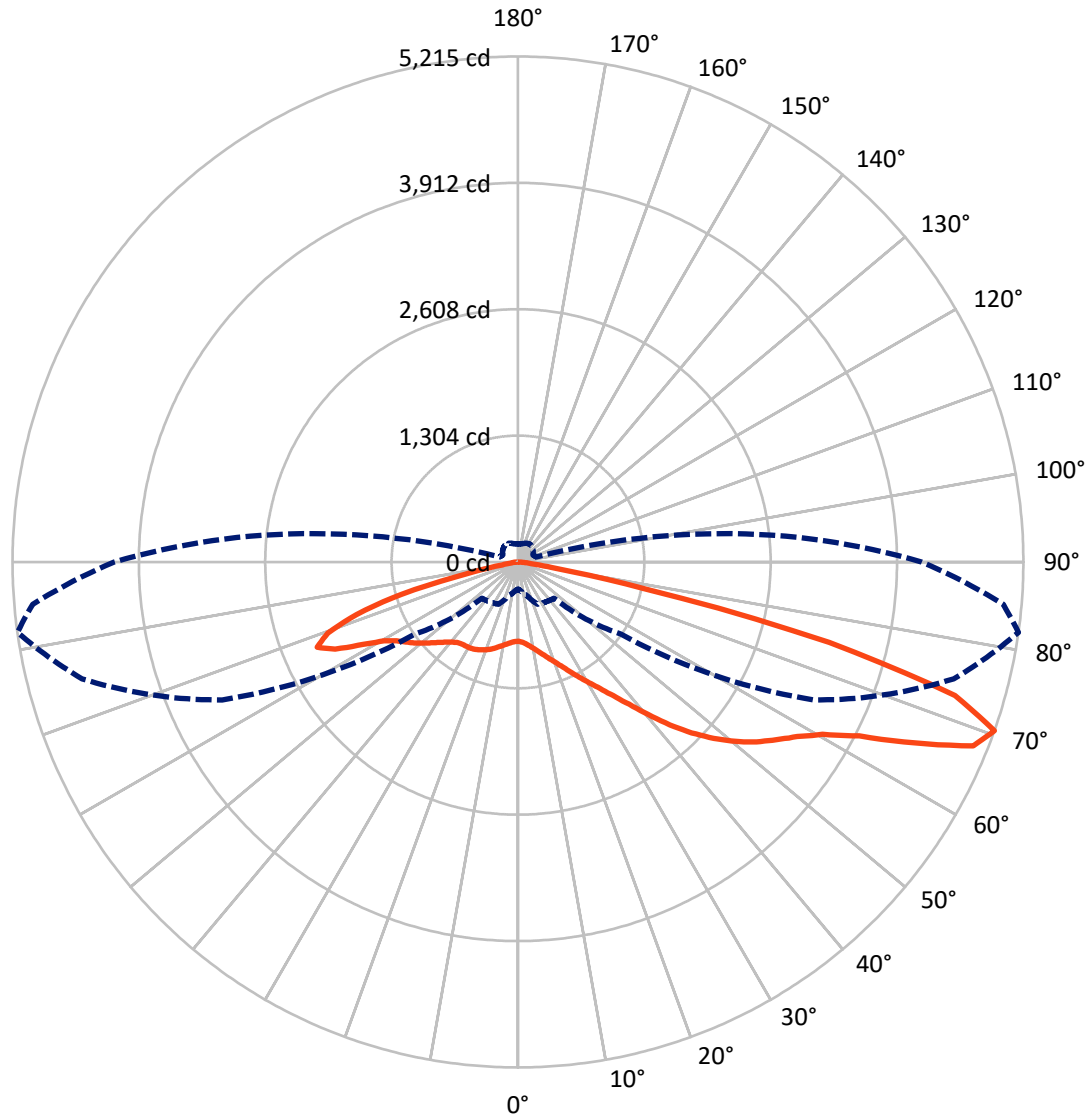
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1375.9	0.0	1375.9
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	4205.1	0.0	4205.1
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	5581.0	0.0	5581.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.3	1.4
10°-20°	222.0	4.0
20°-30°	371.3	6.7
30°-40°	580.1	10.4
40°-50°	923.9	16.6
50°-60°	1285.7	23.0
60°-70°	1344.9	24.1
70°-80°	702.9	12.6
80°-90°	73.0	1.3
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°	5581.0	100.0
0°-180°	5581.0	100.0

**Coefficient of Utilization**



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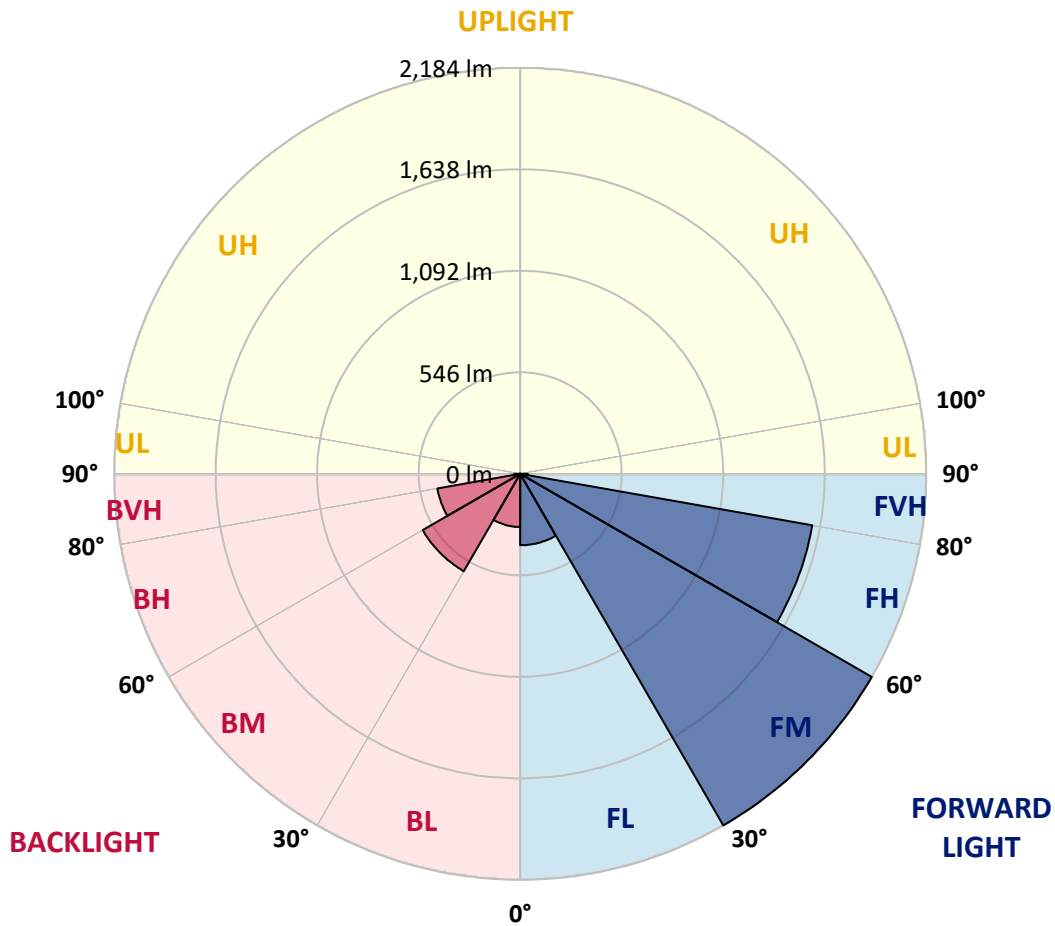
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	384.3	6.9			
FM (30°-60°)	2184.3	39.1			
FH (60°-80°)	1595.6	28.6			G1/1800
FVH (80°-90°)	40.9	0.7			G1/100
BL (0°-30°)	286.2	5.1	B1/500		
BM (30°-60°)	605.3	10.8	B1/1000		
BH (60°-80°)	452.2	8.1	B1/500		G1/500
BVH (80°-90°)	32.1	0.6			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°	82°
0°	818.2	818.2	818.2	818.2	818.2	818.2	818.2	818.2	818.2	818.2
2.5°	837.8	842.5	841.0	839.6	839.6	837.5	837.2	834.2	831.9	828.0
5°	848.5	853.5	852.9	854.1	857.9	858.8	859.7	857.9	853.2	848.5
7.5°	839.0	844.6	846.4	853.5	865.3	876.0	884.0	887.2	882.8	876.0
10°	807.0	813.2	819.4	836.3	857.3	882.5	903.8	916.6	915.7	909.2
12.5°	742.1	748.7	762.0	794.8	833.3	877.8	917.5	944.1	953.3	948.5
15°	690.3	695.9	706.0	739.8	789.8	857.3	922.5	974.3	997.7	995.0
17.5°	688.8	691.2	697.4	713.4	751.9	825.4	917.2	1003.9	1048.6	1048.3
20°	714.9	715.8	719.3	722.6	744.5	801.1	903.5	1028.5	1105.8	1105.8
22.5°	751.0	750.4	754.0	751.0	761.7	799.0	894.9	1050.1	1169.5	1174.2
25°	805.2	802.3	801.4	794.6	796.6	818.2	904.4	1074.7	1245.0	1254.8
27.5°	877.5	872.7	869.5	853.8	848.5	857.9	933.4	1104.3	1329.1	1346.0
30°	971.6	963.1	958.3	931.1	911.8	913.3	977.3	1143.7	1417.0	1444.3
32.5°	1100.2	1086.8	1074.1	1029.4	994.2	982.6	1033.8	1198.2	1512.4	1555.9
35°	1244.1	1233.4	1219.8	1150.8	1096.6	1070.0	1110.2	1274.3	1624.1	1693.1
37.5°	1382.7	1373.5	1380.0	1287.0	1217.1	1178.4	1210.3	1376.5	1761.8	1863.6
40°	1526.0	1518.9	1519.8	1431.0	1349.5	1306.0	1331.8	1504.7	1919.6	2066.5
42.5°	1681.8	1676.5	1658.7	1579.9	1488.4	1447.8	1471.5	1652.8	2089.0	2297.5
45°	1856.2	1853.0	1836.4	1746.1	1641.2	1595.6	1627.6	1816.2	2259.3	2514.9
47.5°	2007.0	2009.6	2007.6	1931.4	1822.8	1755.8	1794.0	1986.8	2417.7	2719.2
50°	2079.5	2093.4	2113.9	2090.2	2022.7	1954.5	1962.0	2151.5	2568.7	2910.8
52.5°	2041.6	2068.0	2123.6	2161.6	2187.6	2173.4	2153.6	2315.0	2710.9	3083.7
55°	1900.4	1937.4	2029.8	2121.3	2254.2	2357.6	2383.7	2496.2	2849.5	3236.0
57.5°	1643.0	1703.1	1786.0	1971.1	2195.0	2446.7	2652.0	2747.6	2996.4	3398.5
60°	1201.8	1282.3	1385.4	1660.8	1987.7	2399.1	2880.3	3133.8	3205.2	3609.1
62.5°	769.1	818.8	913.6	1173.0	1548.8	2154.7	2950.2	3616.5	3559.1	3954.4
65°	526.5	558.5	645.3	791.0	1001.3	1603.9	2763.0	3978.4	4121.1	4501.7
67.5°	382.6	406.9	480.9	608.6	652.4	949.1	2144.1	3961.8	4667.5	5065.5
70°	279.0	296.1	358.3	480.9	502.0	528.0	1298.9	3367.7	4655.7	5215.4
72.5°	206.7	218.6	260.3	373.1	406.3	356.6	642.9	2447.6	4000.6	4717.3
75°	149.6	158.4	189.2	285.5	325.2	271.6	320.7	1430.4	2790.6	3318.3
77.5°	114.3	121.1	141.3	209.1	260.3	203.7	199.0	658.0	1323.2	1329.7
80°	91.8	96.2	107.2	147.2	199.6	152.5	129.7	265.6	418.2	353.9
82.5°	67.5	74.9	90.6	103.4	142.7	105.1	79.1	134.2	159.0	136.8
85°	38.5	43.5	54.8	74.0	91.2	64.3	45.3	59.5	74.0	60.7
87.5°	13.6	17.8	19.2	29.0	39.7	26.7	17.5	17.2	24.3	18.1
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°
818.2	0°	818.2	818.2	818.2	818.2	818.2	818.2	818.2	818.2	818.2	818.2
827.1	2.5°	824.2	822.7	816.8	808.8	800.5	792.5	789.8	784.2	780.3	778.3
846.4	5°	840.8	836.0	822.1	804.3	785.7	765.5	751.3	738.3	728.8	719.9
872.7	7.5°	864.4	856.2	832.2	801.1	767.9	734.4	709.6	690.6	677.9	669.6
903.5	10°	892.0	879.2	842.5	796.0	744.8	696.8	667.5	651.2	643.2	638.8
938.8	12.5°	923.7	905.6	853.2	784.5	709.6	654.8	634.6	629.9	630.2	630.5
983.2	15°	962.8	937.6	861.8	759.3	663.7	622.5	618.9	626.6	634.6	638.5
1033.5	17.5°	1006.9	971.4	863.3	717.9	618.6	601.8	613.0	629.6	641.7	647.1
1089.8	20°	1054.3	1005.7	852.6	659.2	581.6	584.9	605.0	626.3	639.7	646.5
1154.1	22.5°	1108.5	1042.4	827.1	597.6	551.4	566.5	590.2	610.9	624.9	631.7
1229.6	25°	1170.4	1083.6	787.1	545.8	525.4	545.8	569.5	586.7	597.9	604.1
1314.0	27.5°	1239.1	1126.5	733.8	504.6	502.6	524.5	544.0	557.3	563.3	568.0
1403.7	30°	1308.1	1165.6	669.3	473.5	482.7	503.4	517.4	523.3	525.1	526.0
1503.8	32.5°	1382.7	1199.4	601.5	447.8	463.8	483.0	491.3	494.0	485.7	480.0
1625.2	35°	1473.0	1235.5	535.1	427.3	445.1	461.7	464.4	462.0	452.2	440.7
1777.5	37.5°	1584.7	1280.5	482.1	412.8	427.6	438.6	435.3	434.7	435.6	422.0
1960.5	40°	1721.5	1339.2	443.3	401.6	413.4	415.8	406.6	411.6	416.1	395.4
2161.3	42.5°	1873.4	1409.9	418.7	393.9	401.6	395.9	381.7	387.4	386.8	359.5
2362.9	45°	2028.3	1486.9	410.2	388.2	390.6	379.4	363.7	365.1	352.7	328.1
2556.3	47.5°	2182.3	1569.6	415.5	383.5	377.0	364.3	352.1	345.6	327.2	308.9
2741.7	50°	2333.3	1656.3	435.0	374.0	358.3	350.9	342.0	330.5	311.0	295.3
2917.0	52.5°	2473.4	1743.7	456.9	358.3	334.9	339.4	333.8	320.4	301.2	285.2
3082.9	55°	2606.1	1831.1	465.5	336.7	313.0	329.3	326.1	301.5	278.4	265.3
3256.4	57.5°	2750.6	1936.2	456.1	309.2	295.3	317.8	305.3	278.1	264.8	255.0
3482.4	60°	2950.8	2101.1	435.6	275.1	278.4	300.6	279.3	268.0	253.5	242.5
3821.1	62.5°	3283.3	2408.8	402.8	241.4	258.5	275.1	266.8	255.6	240.8	230.1
4400.4	65°	3774.9	2836.5	340.9	215.0	236.3	250.2	253.5	242.2	226.8	215.6
4908.0	67.5°	4189.5	3104.8	257.9	193.1	213.5	230.1	239.3	228.3	212.0	201.1
5026.7	70°	4166.7	2909.9	196.9	171.5	193.4	210.3	222.1	213.5	196.0	185.7
4565.9	72.5°	3700.9	2434.3	159.3	149.6	172.9	189.5	203.7	197.2	179.5	169.4
3344.9	75°	2718.9	1728.0	127.3	127.3	147.5	167.9	183.6	179.5	163.2	156.1
1404.3	77.5°	1146.1	725.0	99.8	105.7	122.6	144.2	163.8	165.2	151.0	159.9
371.4	80°	304.7	199.9	76.1	83.2	96.2	119.0	142.4	141.9	126.5	118.2
138.0	82.5°	116.1	78.8	54.2	58.6	69.6	91.2	112.8	116.4	101.0	87.4
54.2	85°	44.7	33.8	33.5	35.2	40.6	60.4	85.3	88.3	76.1	64.6
15.1	87.5°	11.5	10.1	12.4	11.8	18.7	32.3	48.9	50.6	46.5	26.9
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>
818.2
780.6
723.5
671.4
640.0
631.1
638.2
648.3
648.3
633.5
605.9
569.8
528.0
481.8
441.3
422.9
395.9
359.2
329.0
308.9
294.1
285.5
264.2
254.1
241.9
230.1
216.2
201.4
186.6
169.4
154.0
145.1
109.9
87.4
66.6
38.5
0.0

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