

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: P945088

Luminaire Tested: **GALN-SB1A-927-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945088  
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-SB1A-927-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

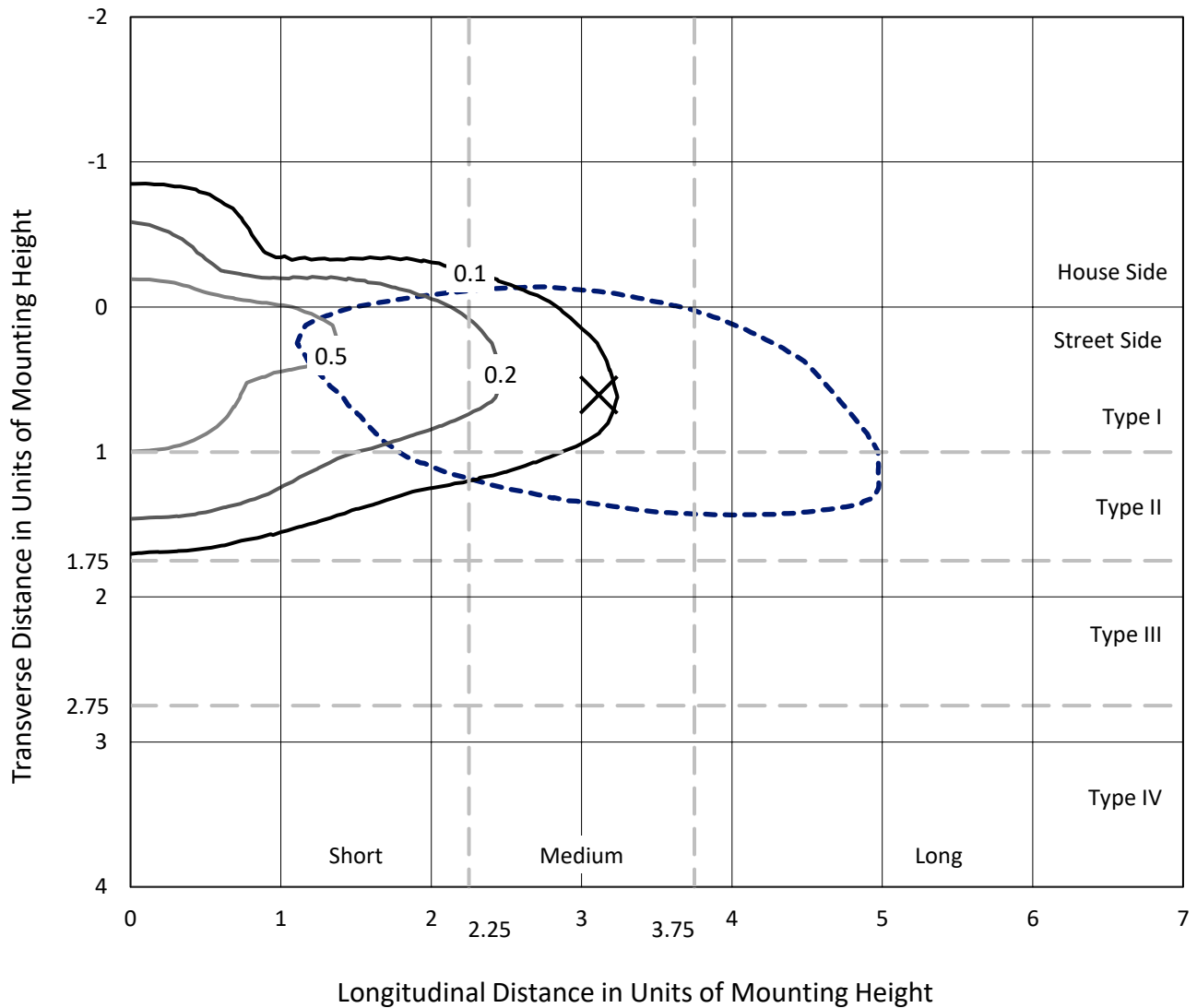
Lumens per Lamp: N/A  
Luminaire Lumens: 2715 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

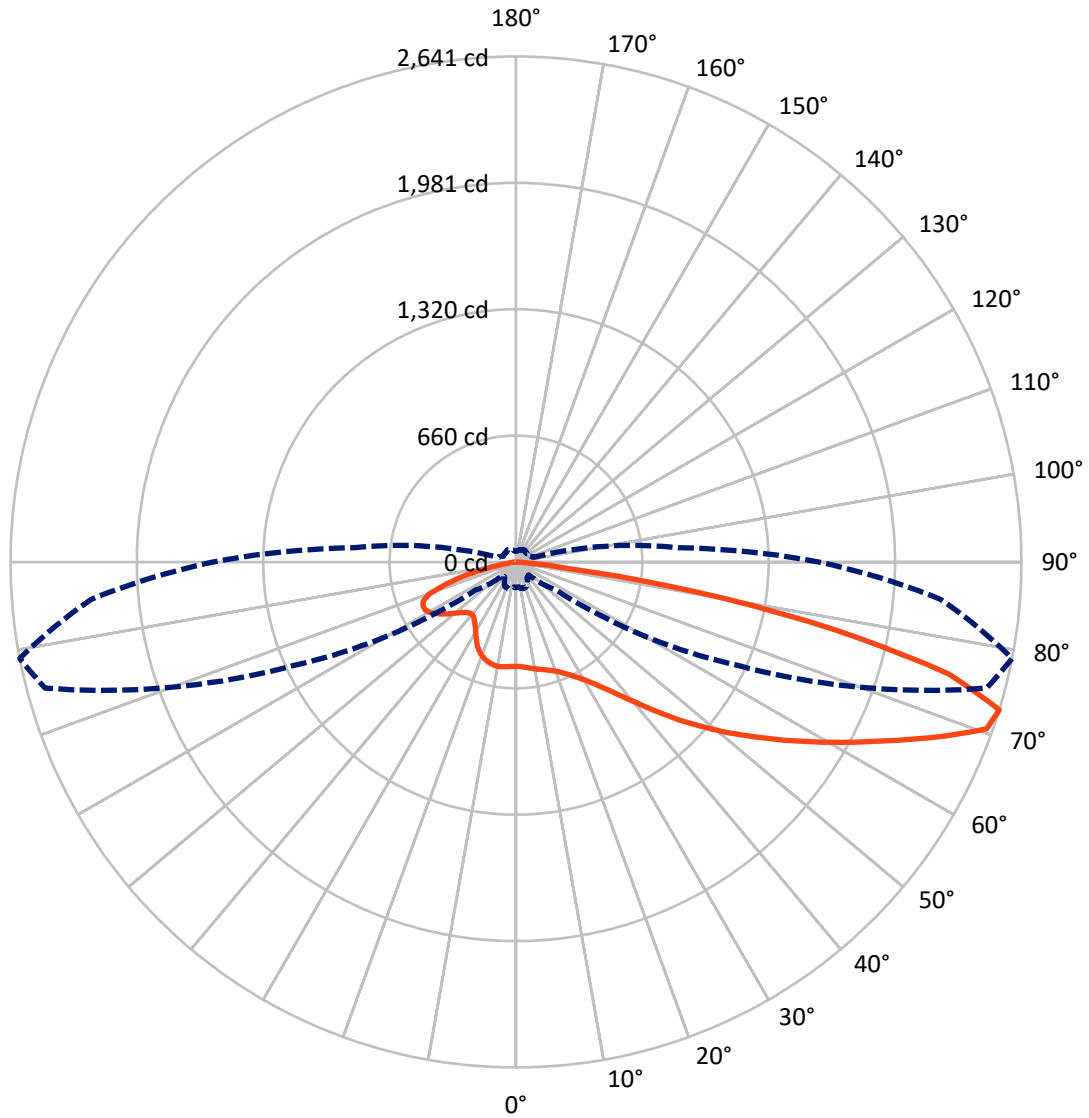
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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	597.5	0.0	597.5
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	2117.6	0.0	2117.6
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	2715.0	0.0	2715.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.5	1.8
10°-20°	129.3	4.8
20°-30°	208.7	7.7
30°-40°	313.2	11.5
40°-50°	444.3	16.4
50°-60°	561.2	20.7
60°-70°	569.9	21.0
70°-80°	388.4	14.3
80°-90°	50.4	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°	2715.0	100.0
0°-180°	2715.0	100.0

**Coefficient of Utilization**



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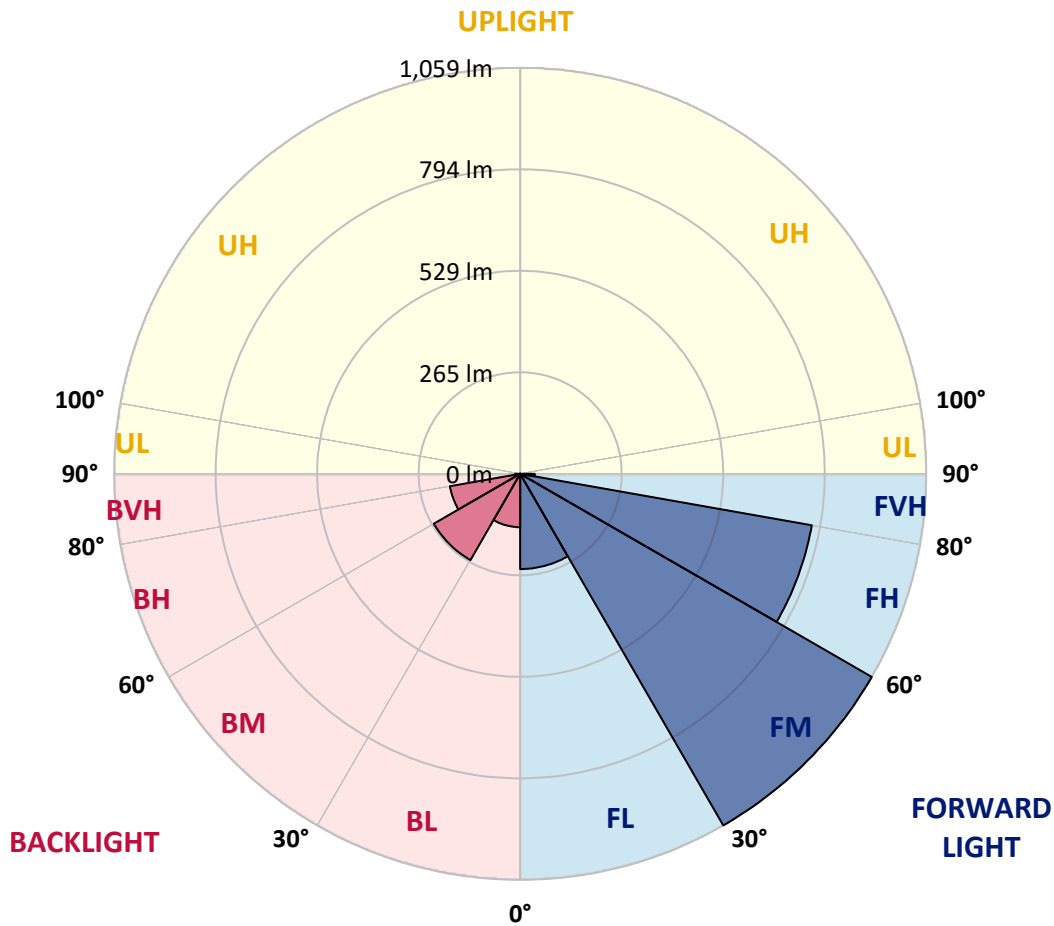
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	248.4	9.1			
FM (30°-60°)	1058.9	39.0			
FH (60°-80°)	772.3	28.4			G1/1800
FVH (80°-90°)	38.0	1.4			G1/100
BL (0°-30°)	139.2	5.1	B1/500		
BM (30°-60°)	259.8	9.6	B1/1000		
BH (60°-80°)	186.0	6.9	B1/500		G1/500
BVH (80°-90°)	12.4	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°	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0
2.5°	545.3	542.7	544.3	543.7	544.4	545.3	545.6	546.0	547.5	547.3
5°	544.1	541.6	543.7	543.0	544.9	546.9	548.6	550.2	552.5	553.5
7.5°	541.7	540.0	542.1	544.3	547.7	550.8	553.2	556.8	560.1	560.7
10°	527.5	526.2	531.2	536.8	546.3	554.5	559.8	564.0	567.6	568.1
12.5°	512.7	511.1	516.7	524.3	539.7	554.5	565.7	571.1	574.3	576.2
15°	510.3	509.0	512.1	518.7	531.5	550.6	569.7	579.8	582.5	584.6
17.5°	522.0	519.6	520.9	523.2	530.6	547.0	572.9	589.5	593.7	596.0
20°	549.3	545.9	543.9	539.3	538.0	547.6	572.6	601.3	606.8	609.6
22.5°	585.7	583.4	579.0	567.4	554.8	554.6	578.0	616.4	626.6	629.3
25°	629.6	626.2	620.7	604.9	580.6	568.6	587.2	635.6	652.7	653.4
27.5°	680.2	675.0	667.5	646.7	613.9	590.4	601.3	657.7	682.7	682.4
30°	733.4	728.3	720.4	695.1	653.9	619.8	620.8	681.6	718.4	716.8
32.5°	772.3	768.5	766.9	747.4	699.8	654.6	643.2	708.0	762.3	760.9
35°	802.2	797.2	799.1	789.2	749.9	693.5	670.7	739.5	815.7	815.6
37.5°	831.8	827.4	828.9	822.3	796.3	742.9	704.1	778.0	881.9	885.1
40°	858.8	854.1	860.4	854.2	832.4	795.5	742.2	821.5	958.6	964.6
42.5°	875.0	871.3	881.8	881.9	863.7	839.8	784.0	869.4	1047.4	1060.9
45°	880.6	879.3	895.1	898.4	891.4	865.6	821.6	921.7	1143.0	1167.1
47.5°	874.6	872.2	894.0	906.2	911.8	877.6	852.8	978.3	1240.7	1276.0
50°	844.2	839.4	871.9	897.6	917.5	885.5	884.2	1043.6	1351.7	1390.3
52.5°	789.4	785.8	822.8	867.4	904.9	889.4	919.6	1115.0	1457.1	1507.1
55°	719.5	714.8	755.4	813.7	873.5	888.1	954.9	1194.9	1581.5	1632.2
57.5°	608.6	599.2	650.6	719.5	822.2	886.5	991.6	1274.3	1707.8	1768.6
60°	446.9	432.8	495.9	577.6	721.9	871.2	1037.2	1363.3	1859.5	1914.2
62.5°	260.2	252.0	293.3	369.5	544.1	780.7	1062.7	1466.9	2008.6	2066.0
65°	202.1	199.8	203.4	209.2	302.9	584.5	983.9	1567.8	2198.1	2238.3
67.5°	184.8	183.1	184.7	173.6	153.7	325.6	778.4	1593.4	2401.2	2425.6
70°	164.3	162.3	167.5	158.0	120.9	148.1	502.9	1500.6	2562.8	2608.6
72.5°	133.8	131.5	143.6	139.3	101.8	95.1	252.6	1280.2	2545.8	2640.9
75°	102.8	101.5	115.9	119.5	83.0	74.8	121.2	951.6	2240.4	2336.1
77.5°	79.8	78.8	86.2	99.2	66.9	58.0	74.5	603.6	1688.3	1705.1
80°	59.9	57.0	63.8	76.8	52.1	42.4	50.6	352.0	1067.2	967.4
82.5°	37.5	36.0	41.6	51.3	36.8	29.2	32.9	194.5	427.7	251.9
85°	21.4	20.8	22.7	29.3	20.0	16.8	18.8	85.9	78.1	53.7
87.5°	8.6	8.3	10.3	13.1	7.3	6.2	6.6	20.7	17.2	15.9
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°
545.0	0°	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0
547.2	2.5°	546.6	546.6	544.6	541.4	537.8	535.5	531.8	530.8	526.9	525.8
552.0	5°	553.2	552.0	545.9	537.0	524.8	513.6	501.2	493.5	482.5	478.7
561.7	7.5°	561.5	558.4	547.7	528.2	502.6	477.5	451.4	431.6	412.6	405.8
569.6	10°	569.1	564.7	546.6	512.4	468.2	424.7	383.0	353.9	331.7	322.7
578.3	12.5°	576.7	568.6	539.0	486.1	419.2	360.2	315.8	293.1	279.5	268.6
585.5	15°	583.9	572.4	527.2	450.9	365.5	305.6	272.9	254.8	243.9	236.7
596.0	17.5°	592.3	575.7	509.5	406.3	314.4	267.8	241.1	230.2	228.1	227.2
610.4	20°	603.9	578.8	486.3	356.3	276.7	237.7	223.9	222.9	222.7	222.3
627.6	22.5°	616.4	582.3	455.5	310.9	244.7	218.9	216.4	214.4	213.1	213.0
648.4	25°	631.2	583.5	417.1	273.7	217.4	210.0	207.1	204.1	203.2	203.2
672.1	27.5°	645.5	579.6	372.2	241.4	202.1	201.8	198.0	197.0	196.9	197.3
699.1	30°	659.9	572.3	327.7	211.5	193.2	193.2	191.9	192.6	193.2	194.6
736.2	32.5°	679.3	564.5	290.5	189.4	185.4	184.0	185.3	186.7	187.3	189.1
784.8	35°	707.7	559.1	260.9	177.4	177.4	175.5	176.2	175.9	174.6	173.8
843.7	37.5°	745.4	558.8	236.5	171.8	170.6	170.3	170.5	168.6	163.6	157.5
915.0	40°	790.6	566.6	217.7	167.9	167.0	168.7	167.9	162.9	149.1	138.6
1002.6	42.5°	851.3	588.7	205.7	163.1	165.7	167.9	164.4	147.1	137.7	130.7
1102.4	45°	922.9	624.6	199.5	158.1	163.3	165.9	149.2	141.6	134.1	125.7
1211.2	47.5°	1003.9	669.8	198.0	153.4	157.8	159.4	142.8	139.3	130.8	121.6
1320.7	50°	1092.0	723.4	201.9	147.8	149.9	144.5	140.6	137.4	128.7	119.6
1432.8	52.5°	1183.2	782.4	209.7	140.2	142.0	136.0	139.7	137.0	127.4	115.2
1548.7	55°	1272.8	841.9	217.1	131.3	134.0	128.4	137.3	135.3	121.5	107.7
1672.4	57.5°	1363.9	901.0	224.5	123.4	126.2	121.1	133.4	130.7	114.9	100.8
1807.4	60°	1458.5	958.5	227.9	115.8	117.8	114.3	127.5	122.8	107.4	93.8
1940.1	62.5°	1547.1	1006.3	222.3	108.1	109.4	108.0	119.8	113.5	100.0	85.9
2078.4	65°	1636.0	1034.7	205.1	100.7	101.0	100.2	108.9	103.4	91.2	79.0
2199.4	67.5°	1716.6	1050.7	177.6	92.6	91.9	91.6	98.7	92.5	82.7	72.1
2291.5	70°	1733.7	1010.2	135.7	83.2	83.2	82.4	87.5	81.1	73.4	64.8
2225.6	72.5°	1583.5	849.8	96.4	72.4	73.5	72.1	76.3	70.9	63.9	58.2
1918.1	75°	1276.9	623.1	70.1	61.3	63.3	60.9	64.8	61.0	55.0	54.9
1321.8	77.5°	877.3	385.3	50.8	50.6	52.0	48.8	53.3	51.3	45.8	43.4
575.3	80°	374.4	153.7	37.1	39.1	39.1	36.2	41.4	41.9	37.2	36.0
111.0	82.5°	74.5	43.7	26.0	26.9	25.3	24.4	29.3	32.5	44.8	49.8
33.5	85°	22.4	16.1	15.7	14.6	12.9	13.1	17.2	32.6	40.2	23.0
11.1	87.5°	6.2	4.0	4.2	3.3	2.7	3.6	5.9	24.7	13.5	5.7
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>
545.0
527.6
481.5
406.7
324.7
272.1
238.0
227.8
223.7
214.6
204.1
198.5
195.6
190.7
175.8
157.7
138.3
130.4
125.1
120.9
118.6
114.3
107.0
100.5
93.3
85.7
78.1
71.2
64.5
56.4
49.4
40.6
36.0
50.0
19.8
4.9
0.0

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