

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: P938834

Luminaire Tested: **GALN-SB1A-927-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938834  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
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-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

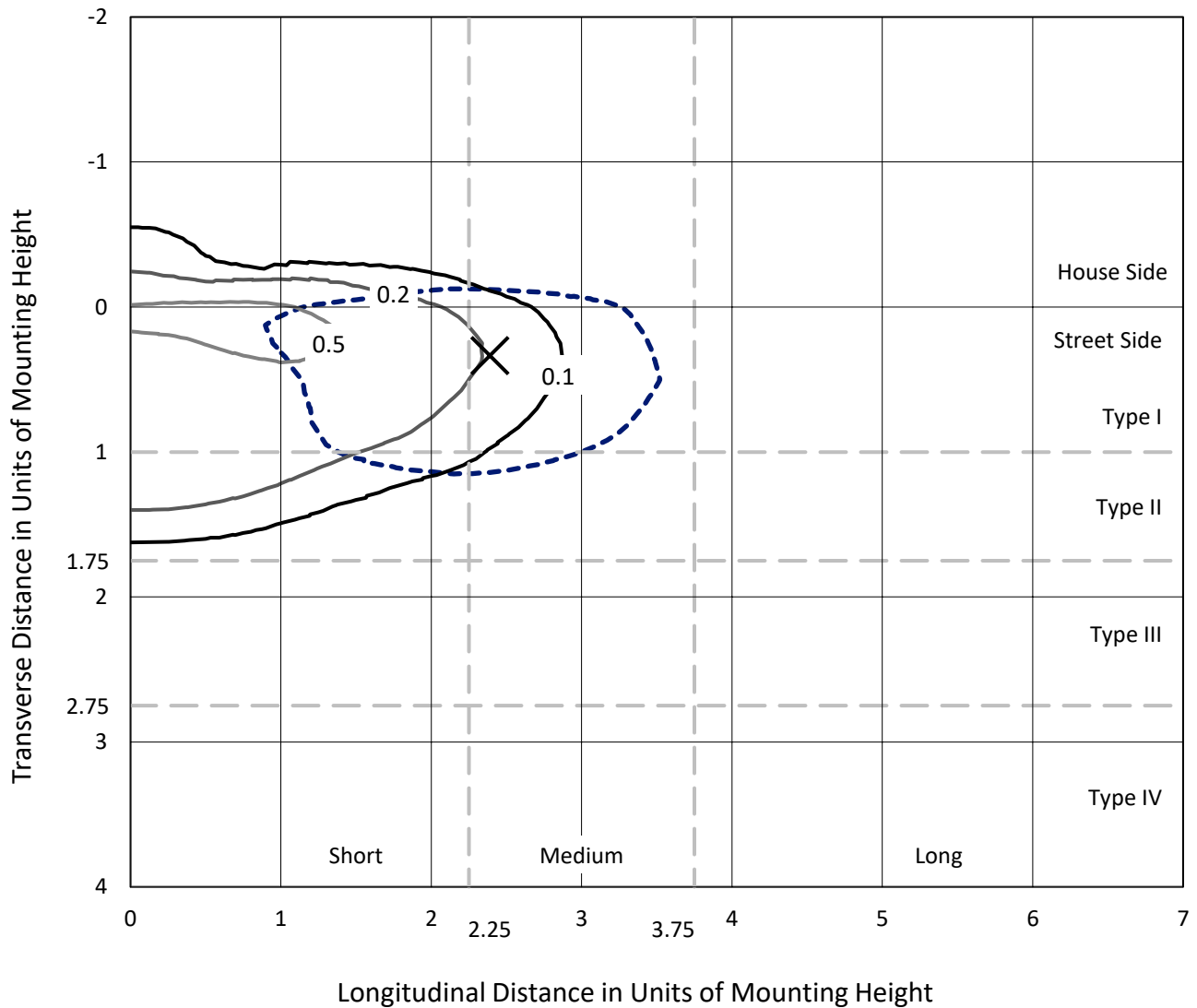
Lumens per Lamp: N/A  
Luminaire Lumens: 1995 lumens  
Efficiency: N/A  
Efficacy: 64.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G0  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

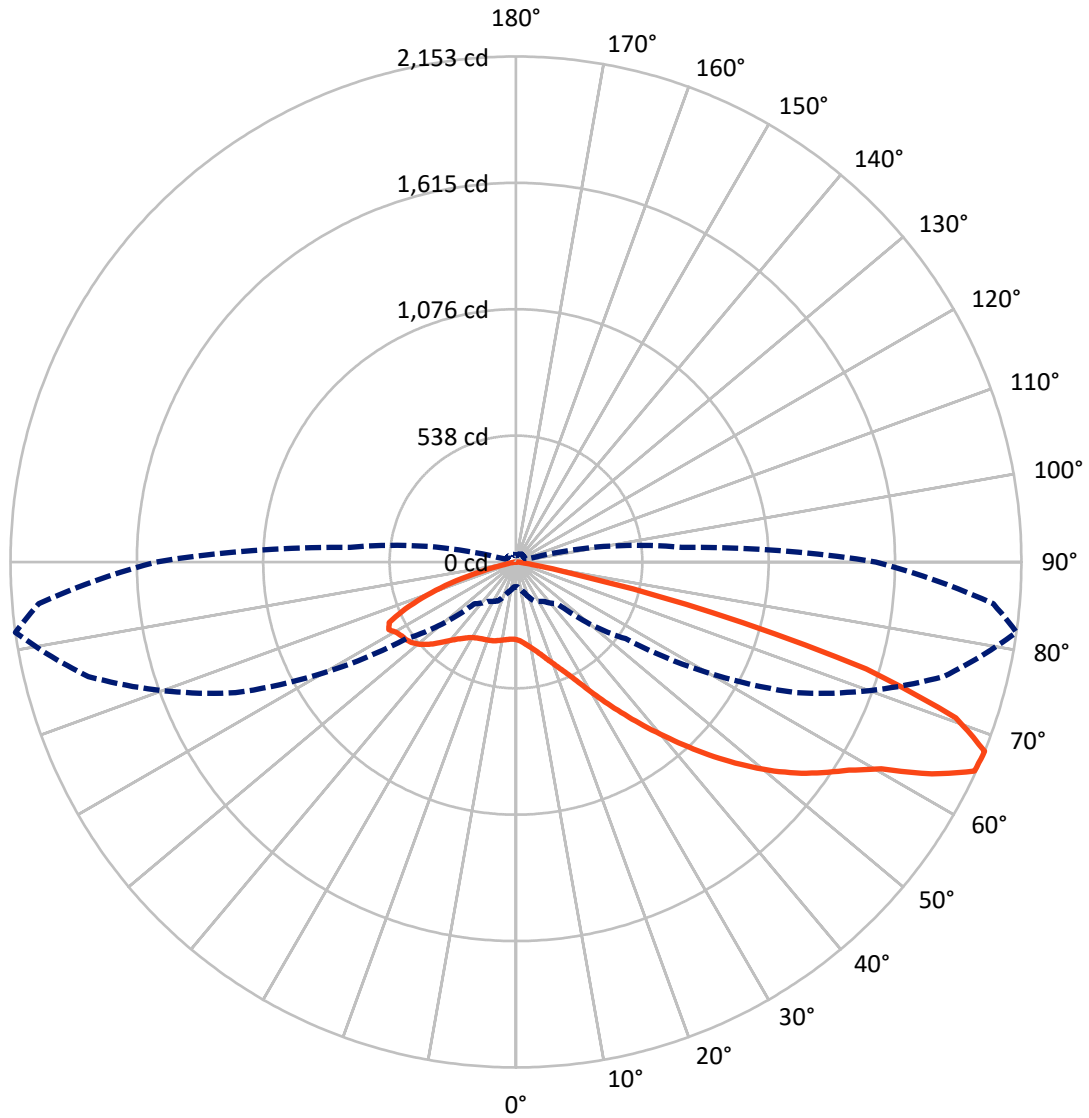
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	361.4	0.0	361.4
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	1633.6	0.0	1633.6
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	1995.0	0.0	1995.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.4	1.5
10°-20°	76.5	3.8
20°-30°	122.6	6.1
30°-40°	216.7	10.9
40°-50°	379.7	19.0
50°-60°	506.4	25.4
60°-70°	471.5	23.6
70°-80°	180.9	9.1
80°-90°	11.2	0.6
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°	1995.0	100.0
0°-180°	1995.0	100.0

**Coefficient of Utilization**



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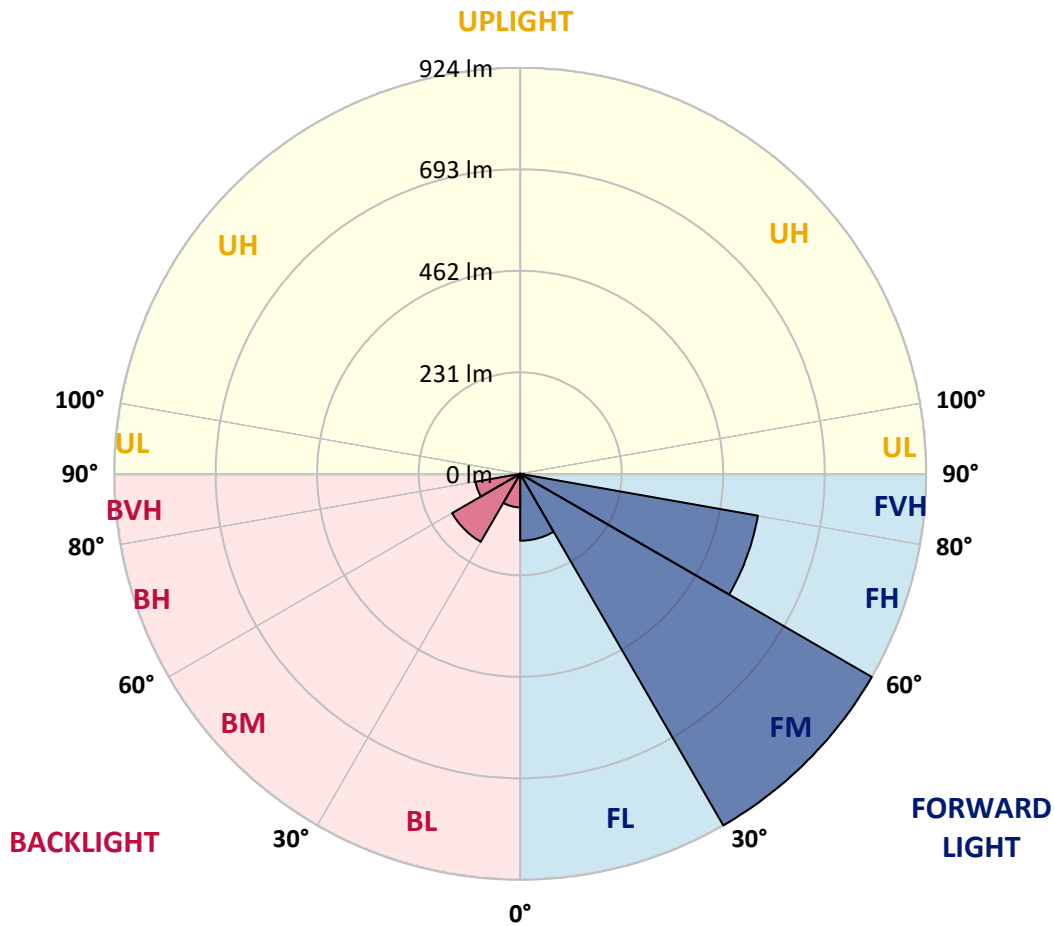
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	152.2	7.6			
FM (30°-60°)	924.0	46.3			
FH (60°-80°)	549.3	27.5			G0/660
FVH (80°-90°)	8.2	0.4			G0/10
BL (0°-30°)	76.3	3.8	B0/110		
BM (30°-60°)	178.8	9.0	B0/220		
BH (60°-80°)	103.1	5.2	B0/110		G0/110
BVH (80°-90°)	3.1	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G0**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	330.5	330.5	330.5	330.5	330.5	330.5	330.5	330.5	330.5	330.5
2.5°	349.3	351.3	350.2	349.6	348.6	347.2	346.0	342.4	338.7	336.2
5°	356.4	358.4	358.2	358.8	359.5	359.9	359.7	355.6	350.3	346.2
7.5°	350.3	352.6	354.5	357.4	362.4	367.7	370.3	369.4	364.0	358.2
10°	333.2	335.7	340.1	346.9	357.5	369.0	378.6	383.1	379.6	373.3
12.5°	301.9	304.4	313.1	327.8	345.6	365.6	383.9	395.9	396.7	390.4
15°	266.7	269.2	278.5	296.9	324.0	356.1	386.8	409.4	417.0	411.5
17.5°	244.9	247.1	254.1	268.9	297.2	337.1	385.8	423.7	441.1	436.8
20°	238.3	240.2	243.5	253.8	277.4	317.4	379.2	437.2	467.1	464.7
22.5°	245.3	247.1	248.1	252.7	267.4	304.5	370.9	451.0	497.3	497.6
25°	261.6	263.3	262.1	265.0	271.5	300.5	367.7	467.2	535.2	538.3
27.5°	288.3	288.4	285.7	285.5	286.6	306.5	371.0	484.6	583.0	588.9
30°	341.9	339.7	329.2	317.9	312.7	324.6	380.2	505.2	639.5	649.9
32.5°	424.4	421.3	402.0	374.9	347.6	353.8	396.7	528.6	700.9	719.9
35°	514.1	513.2	493.1	452.7	405.1	395.3	423.6	559.3	768.0	798.2
37.5°	597.4	596.9	585.5	537.9	479.9	453.2	466.7	599.5	839.8	883.5
40°	673.5	674.8	663.3	620.8	562.3	527.4	525.3	649.2	919.7	976.4
42.5°	739.3	740.7	729.1	697.6	643.8	609.6	597.2	710.1	997.7	1076.3
45°	784.0	792.9	791.1	766.0	727.4	691.9	683.7	786.5	1086.6	1182.1
47.5°	796.6	804.8	817.7	821.2	797.6	762.7	772.5	878.6	1176.5	1288.1
50°	765.4	773.0	799.9	835.7	852.0	841.3	858.8	977.3	1268.6	1393.8
52.5°	704.0	711.7	745.6	802.2	869.0	902.9	945.4	1074.5	1357.8	1493.9
55°	615.0	623.2	666.8	730.8	836.7	928.3	1017.7	1171.6	1439.5	1584.0
57.5°	494.1	500.1	545.4	635.0	755.4	903.0	1070.9	1277.6	1516.5	1672.5
60°	322.0	327.3	379.9	479.9	620.6	818.6	1081.6	1395.8	1618.8	1787.5
62.5°	214.2	217.8	248.9	322.3	437.1	656.4	1019.4	1490.2	1768.7	1987.8
65°	146.9	150.5	181.7	232.8	282.4	434.2	840.6	1477.7	1904.6	2146.8
67.5°	104.9	107.9	134.3	182.6	204.4	252.2	569.8	1318.0	1885.1	2152.8
70°	75.1	76.8	98.7	142.2	162.5	151.5	316.9	1008.0	1650.5	1987.9
72.5°	52.6	53.1	68.5	108.3	130.9	110.6	150.8	672.1	1248.3	1560.3
75°	35.6	36.3	46.1	79.4	105.0	84.5	79.9	360.4	732.8	863.7
77.5°	21.8	22.1	29.7	54.3	78.6	64.3	51.4	152.7	283.5	278.4
80°	12.4	12.4	19.0	33.8	53.6	41.5	36.1	64.9	89.8	78.9
82.5°	6.9	7.0	13.8	21.0	35.5	24.6	19.8	30.0	38.8	34.3
85°	2.9	3.2	8.5	9.9	16.9	12.2	8.0	12.6	14.4	12.8
87.5°	0.3	0.4	2.6	1.9	2.0	2.4	1.1	2.4	2.0	2.0
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°
330.5	0°	330.5	330.5	330.5	330.5	330.5	330.5	330.5	330.5	330.5	330.5
335.4	2.5°	332.7	330.5	325.0	318.7	310.4	306.4	300.9	297.2	294.0	294.3
343.7	5°	339.1	333.7	321.5	306.2	287.3	273.8	259.4	249.5	241.5	239.7
355.2	7.5°	348.0	339.4	318.0	290.6	258.5	234.3	212.6	198.6	188.7	185.6
369.1	10°	359.5	347.0	313.6	270.9	224.8	193.9	170.6	159.7	153.0	150.7
385.5	12.5°	372.9	355.8	307.7	246.9	190.0	160.3	145.5	140.0	137.9	137.2
405.6	15°	389.7	366.7	298.8	218.5	160.6	139.8	133.4	132.7	133.0	132.7
429.8	17.5°	409.6	378.6	284.3	189.2	140.8	129.3	127.0	127.5	128.3	128.1
456.8	20°	431.5	390.4	265.7	163.2	127.3	121.8	120.5	121.1	121.7	121.4
487.9	22.5°	456.3	403.0	245.2	142.9	118.2	114.9	113.5	113.6	113.6	113.0
527.4	25°	486.1	417.0	223.6	128.6	111.3	108.7	107.0	106.4	105.6	103.8
575.4	27.5°	521.5	431.8	203.0	118.5	105.9	103.4	101.4	100.0	97.8	94.9
633.0	30°	561.5	449.7	185.4	112.2	101.5	99.1	96.8	94.7	91.5	87.9
699.2	32.5°	608.4	469.0	172.6	108.0	97.7	95.1	92.4	89.8	86.3	82.7
773.6	35°	664.5	492.2	165.2	105.1	94.7	91.2	88.2	85.3	82.7	79.6
854.5	37.5°	725.2	516.9	162.9	103.7	92.6	87.3	83.9	81.9	81.6	79.7
942.0	40°	791.7	546.2	164.6	102.8	90.5	83.6	79.9	79.4	80.1	76.8
1035.5	42.5°	862.1	581.0	167.5	101.8	87.5	79.9	76.3	76.3	75.7	71.1
1134.3	45°	938.2	621.1	170.4	99.4	83.9	76.1	73.4	72.4	70.0	65.5
1233.7	47.5°	1014.9	661.9	172.5	94.9	79.6	73.0	70.5	68.2	64.6	60.6
1331.2	50°	1087.7	698.5	170.2	88.3	74.7	70.0	67.4	64.2	60.3	57.6
1423.6	52.5°	1152.8	730.2	160.4	80.6	69.5	66.8	64.5	61.2	58.0	55.2
1506.9	55°	1209.4	756.0	143.2	73.3	64.9	64.1	61.8	57.6	53.3	50.8
1589.5	57.5°	1263.7	775.5	121.7	67.2	60.8	61.0	57.6	53.9	49.8	47.3
1700.8	60°	1335.9	801.6	99.8	61.6	56.3	57.2	53.4	50.7	45.7	42.4
1891.7	62.5°	1451.4	842.3	79.3	54.7	51.1	51.4	49.8	46.5	40.5	36.6
2033.2	65°	1543.1	827.3	62.5	47.3	45.2	45.7	45.7	42.1	35.6	31.2
2040.8	67.5°	1532.7	708.4	49.8	39.9	39.6	39.9	40.9	37.9	31.6	28.0
1885.4	70°	1411.9	563.5	39.9	33.2	34.5	33.8	36.6	34.6	28.4	24.8
1461.6	72.5°	1152.1	405.9	30.5	27.4	26.4	27.6	33.0	31.2	23.7	19.7
774.2	75°	673.2	216.6	22.7	21.7	19.1	23.0	29.3	26.6	18.1	14.5
237.3	77.5°	219.2	75.6	16.7	15.9	14.2	18.5	25.0	22.4	14.8	11.5
69.5	80°	58.7	22.8	11.3	10.5	9.2	13.8	19.8	17.8	10.6	7.5
29.9	82.5°	23.6	9.6	6.6	5.9	5.0	9.5	15.7	14.4	7.9	4.7
9.3	85°	7.6	3.2	2.4	1.9	2.3	5.9	9.3	9.8	5.6	2.4
1.4	87.5°	1.0	0.4	0.4	0.6	0.4	1.0	2.9	2.7	1.6	0.3
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

<u>180°</u>
330.5
291.4
235.8
182.4
148.9
136.7
132.6
127.8
121.2
112.8
103.6
94.7
87.6
82.9
79.3
79.6
77.0
71.1
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