

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: P945183

Luminaire Tested: **GALN-SB1A-950-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945183  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1A-950-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

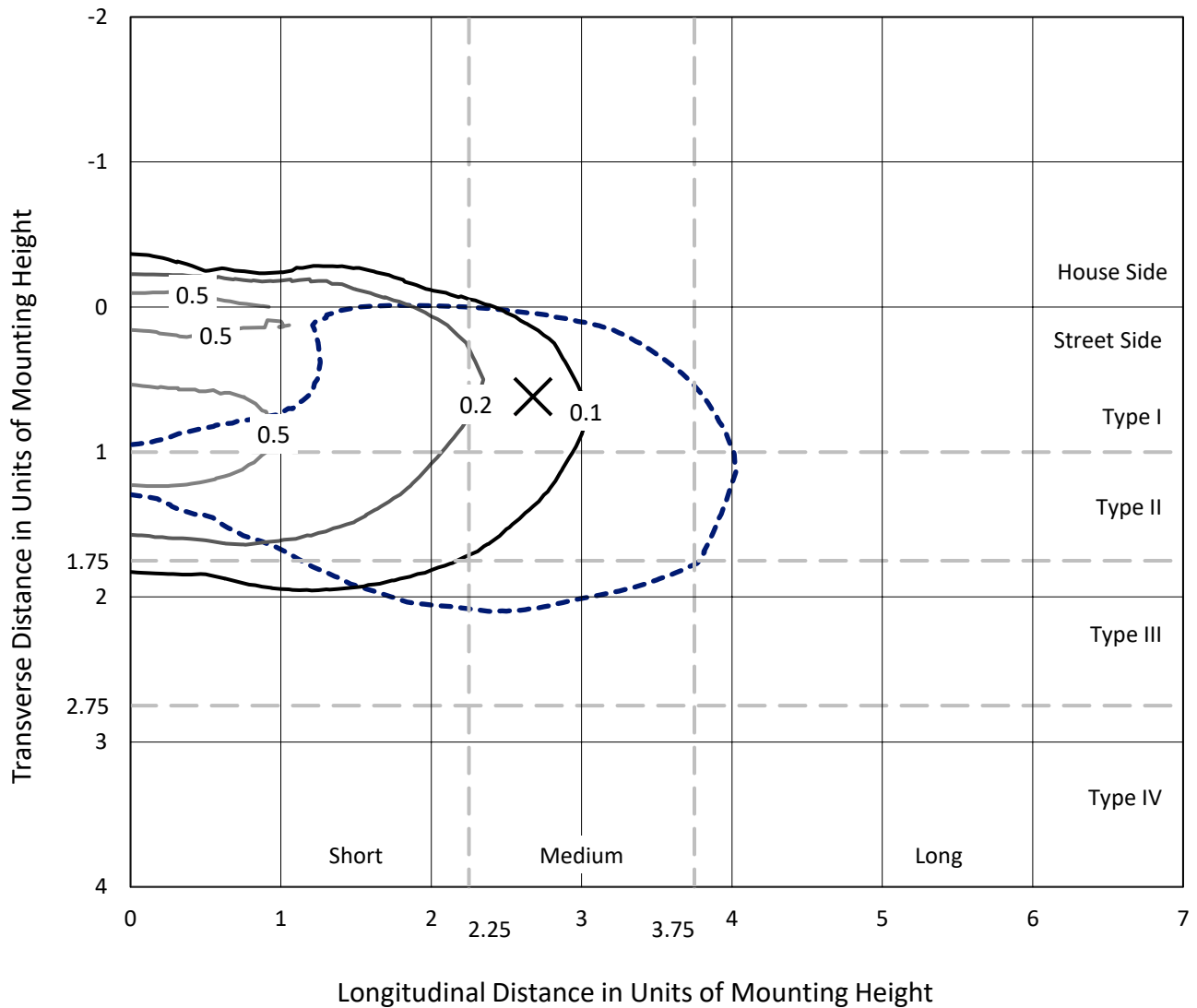
Lumens per Lamp: N/A  
Luminaire Lumens: 2599 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

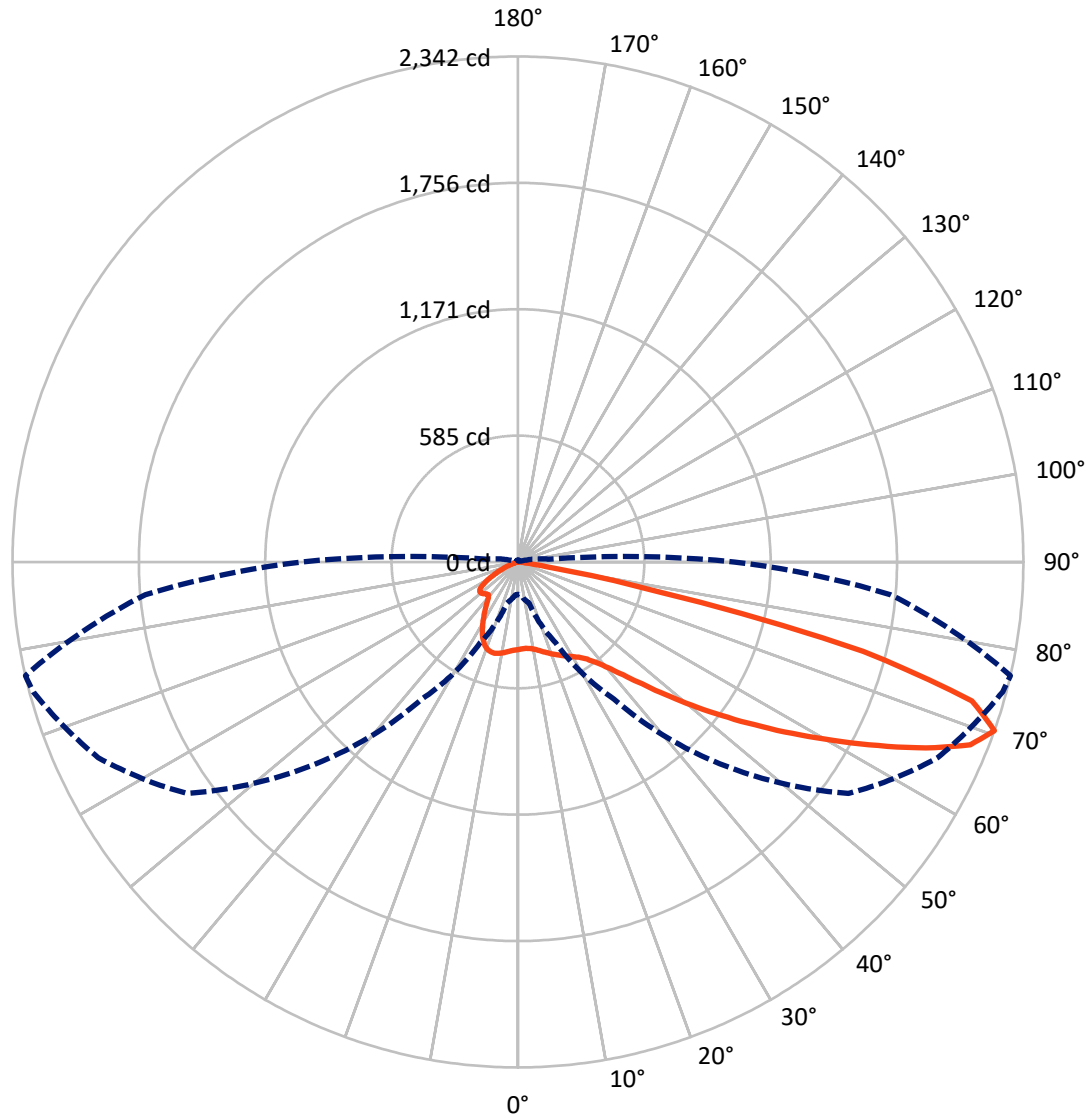
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	274.0	0.0	274.0
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	2325.0	0.0	2325.0
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	2599.0	0.0	2599.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.9	1.3
10°-20°	82.9	3.2
20°-30°	128.3	4.9
30°-40°	232.8	9.0
40°-50°	439.4	16.9
50°-60°	634.9	24.4
60°-70°	675.8	26.0
70°-80°	358.1	13.8
80°-90°	11.8	0.5
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°	2599.0	100.0
0°-180°	2599.0	100.0

**Coefficient of Utilization**



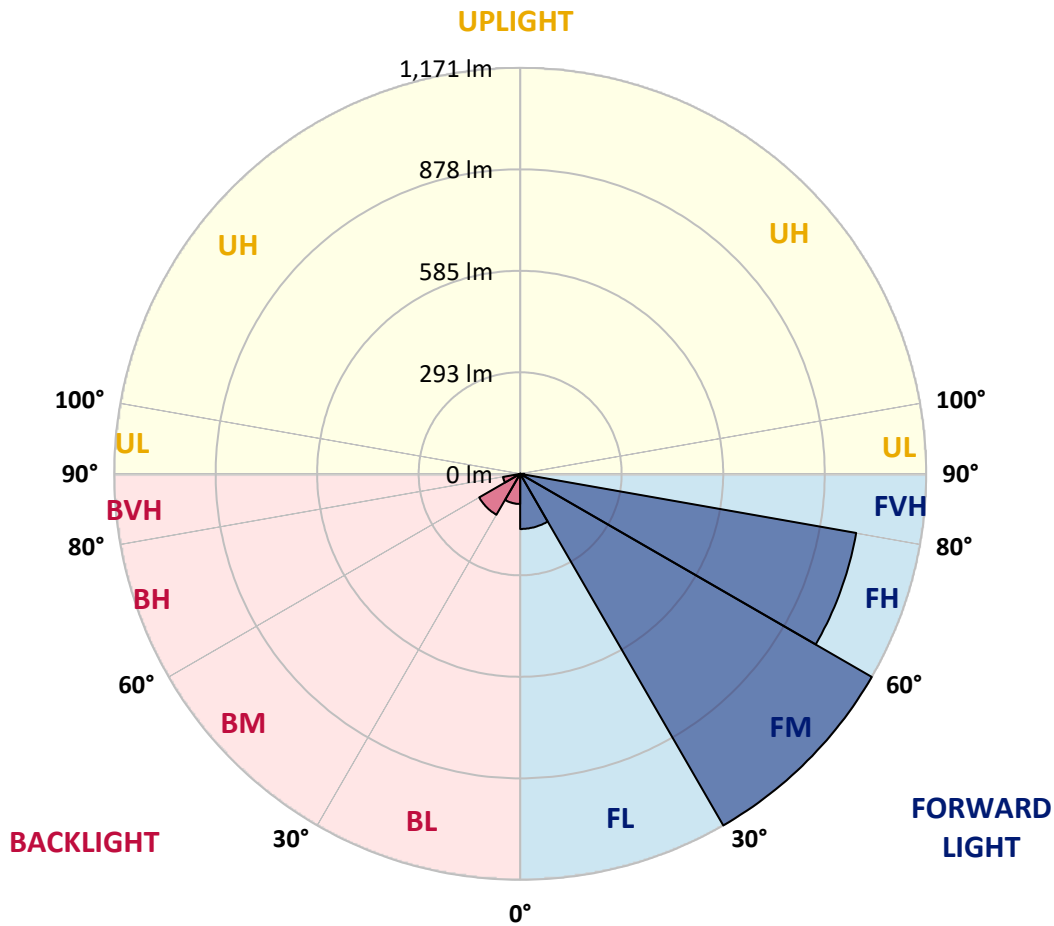
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	159.1	6.1			
FM	(30°-60°)	1170.7	45.0			
FH	(60°-80°)	983.8	37.9			G1/1800
FVH	(80°-90°)	11.4	0.4			G1/100
BL	(0°-30°)	87.0	3.3	B0/110		
BM	(30°-60°)	136.4	5.2	B0/220		
BH	(60°-80°)	50.2	1.9	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	405.4	405.4	405.4	405.4	405.4	405.4	405.4	405.4	405.4	405.4
2.5°	380.6	384.1	383.6	385.9	386.7	390.0	393.3	397.7	402.6	402.4
5°	359.1	362.6	363.4	366.5	370.4	375.5	382.3	391.1	400.3	401.8
7.5°	333.7	337.3	339.4	345.7	352.9	363.4	374.4	387.3	402.6	404.7
10°	308.2	311.5	314.3	323.2	334.7	350.2	368.1	386.9	407.4	410.5
12.5°	292.5	295.6	298.7	306.4	320.7	339.7	364.0	389.1	415.2	419.7
15°	286.9	289.7	292.1	299.0	312.3	334.0	363.2	393.9	425.3	431.2
17.5°	287.7	289.2	290.8	296.1	309.1	331.4	364.7	402.1	437.1	442.3
20°	292.5	293.3	293.5	297.1	308.6	331.0	367.6	410.0	448.2	455.3
22.5°	298.5	298.9	298.5	301.0	311.7	333.5	371.6	419.5	460.7	467.3
25°	326.9	320.7	312.8	308.1	316.9	338.3	377.5	432.3	474.3	480.7
27.5°	415.1	397.2	369.0	337.3	327.8	345.2	385.7	445.3	488.1	493.9
30°	558.2	534.7	486.8	415.4	362.6	359.6	396.4	458.2	502.7	509.0
32.5°	701.6	695.9	640.6	541.8	440.8	391.8	414.1	475.8	522.1	527.0
35°	846.7	835.1	789.8	692.1	561.5	457.3	443.6	498.8	547.5	553.1
37.5°	957.9	950.8	922.7	842.3	704.6	558.4	494.2	534.4	584.5	590.7
40°	1056.0	1052.7	1043.2	990.2	864.6	690.7	572.8	589.5	635.7	643.1
42.5°	1133.1	1140.9	1146.3	1131.5	1029.6	841.7	678.5	667.0	707.1	714.6
45°	1212.1	1214.7	1236.5	1257.9	1193.4	999.5	797.7	757.8	795.9	805.2
47.5°	1262.8	1273.3	1311.7	1349.3	1331.1	1156.1	925.7	865.0	898.8	916.3
50°	1266.6	1286.4	1339.3	1404.8	1431.4	1305.1	1064.9	987.1	1023.0	1042.4
52.5°	1203.7	1234.6	1316.5	1412.3	1485.5	1431.4	1208.8	1109.2	1155.3	1180.6
55°	922.9	963.3	1230.6	1371.3	1487.7	1527.1	1349.0	1236.4	1302.7	1331.2
57.5°	804.1	824.4	967.5	1300.1	1448.1	1565.6	1475.7	1357.5	1463.0	1498.5
60°	669.0	695.7	811.5	1183.5	1394.4	1569.4	1587.6	1513.8	1636.9	1676.7
62.5°	454.6	483.7	598.7	983.3	1321.1	1567.6	1679.4	1674.6	1830.0	1872.9
65°	281.6	299.9	375.7	802.9	1218.5	1569.6	1775.4	1869.9	2033.9	2077.4
67.5°	222.6	230.9	270.5	616.5	1041.7	1525.2	1871.2	2053.6	2225.7	2260.2
70°	149.5	154.6	196.8	413.3	775.0	1320.7	1869.4	2145.8	2324.6	2341.8
72.5°	78.8	82.7	115.1	191.4	468.1	938.8	1575.8	2035.5	2226.2	2200.3
75°	39.4	46.0	77.5	97.2	199.9	523.6	978.5	1604.8	1752.2	1651.8
77.5°	29.9	36.1	64.0	64.0	69.6	176.3	414.4	875.3	807.3	672.3
80°	19.0	24.6	56.0	48.4	29.1	44.8	108.0	245.2	171.5	130.5
82.5°	11.2	16.1	46.6	32.0	16.2	16.6	30.5	52.2	44.5	34.6
85°	4.4	10.5	32.0	12.6	6.4	4.1	9.2	11.2	9.2	6.9
87.5°	0.0	2.5	5.6	0.0	0.5	0.3	0.7	0.8	0.8	0.7
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°
405.4	0°	405.4	405.4	405.4	405.4	405.4	405.4	405.4	405.4	405.4	405.4
405.7	2.5°	407.2	407.5	408.5	408.7	406.4	403.4	402.3	401.8	399.8	399.7
408.4	5°	412.1	413.6	412.1	407.9	397.7	383.4	372.6	363.7	355.7	353.2
417.4	7.5°	422.0	423.5	419.0	402.3	376.7	348.3	322.7	304.6	288.4	282.3
428.4	10°	436.1	438.1	424.1	390.3	345.0	299.4	256.0	225.5	201.7	192.0
443.3	12.5°	453.8	454.6	426.9	372.1	303.8	238.6	177.3	144.6	123.4	115.5
461.4	15°	473.3	472.2	427.2	347.3	247.7	168.7	115.7	95.0	86.5	83.9
479.4	17.5°	493.9	489.1	420.7	311.5	186.1	115.4	85.8	80.9	79.4	78.8
497.3	20°	514.1	503.4	408.7	264.7	133.6	86.2	78.0	76.5	75.7	75.3
515.4	22.5°	532.4	514.2	388.2	210.4	97.0	76.2	73.7	72.4	70.9	70.2
532.9	25°	550.3	520.5	359.3	159.7	77.6	71.2	69.3	66.8	64.8	64.0
551.8	27.5°	567.7	524.4	323.2	118.2	69.3	66.6	63.0	59.6	58.1	57.8
572.0	30°	586.3	525.7	282.1	88.1	64.2	60.9	55.6	51.7	50.9	51.0
599.2	32.5°	608.9	527.7	240.8	72.2	59.9	54.0	47.8	43.7	43.0	43.7
639.0	35°	636.0	531.6	200.9	66.5	56.1	46.9	40.2	36.8	36.1	36.6
689.8	37.5°	672.8	538.0	163.6	65.3	53.0	41.0	33.8	31.0	31.0	31.2
752.2	40°	721.7	555.1	130.3	64.5	51.4	36.6	28.6	27.4	27.9	28.2
831.6	42.5°	781.3	591.4	107.8	63.5	49.6	34.6	25.9	25.4	26.3	26.6
926.8	45°	848.1	637.3	100.0	61.9	47.9	35.9	24.8	24.1	25.1	25.3
1033.5	47.5°	917.1	682.3	99.0	60.1	46.3	37.9	24.5	23.0	24.1	24.3
1147.4	50°	987.1	711.7	100.0	57.3	43.7	37.9	24.6	21.8	22.8	23.3
1265.6	52.5°	1057.5	725.1	99.3	51.2	39.1	35.6	24.6	20.8	21.8	22.2
1393.3	55°	1125.8	722.5	89.3	42.2	33.2	31.5	24.0	20.0	20.7	20.8
1513.9	57.5°	1179.8	685.9	70.7	32.8	26.9	26.3	21.8	19.0	19.5	19.4
1624.5	60°	1208.0	605.5	50.6	25.3	21.2	20.7	19.2	17.7	18.1	17.2
1718.3	62.5°	1208.3	499.1	33.8	20.0	16.9	16.4	16.4	15.9	15.6	14.0
1790.8	65°	1182.5	381.1	22.5	15.9	13.6	12.8	13.8	13.6	12.5	10.2
1813.0	67.5°	1124.1	249.8	17.1	12.5	10.5	10.0	11.0	11.5	10.7	8.5
1732.2	70°	1004.0	145.4	14.1	9.7	7.9	7.4	8.9	9.8	8.9	6.9
1480.6	72.5°	833.9	78.5	11.5	7.2	5.4	4.9	7.1	8.0	7.1	5.1
950.0	75°	541.1	42.0	8.9	4.8	2.8	3.1	5.3	5.9	4.9	3.3
278.9	77.5°	181.7	18.5	5.6	2.3	1.3	1.3	3.1	3.6	2.3	1.1
50.7	80°	40.5	7.7	2.3	1.0	0.5	0.5	0.7	0.7	0.3	0.0
15.6	82.5°	13.3	3.1	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
3.9	85°	5.1	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.3	87.5°	2.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
405.4
400.0
351.7
279.8
187.9
113.1
83.9
78.6
75.0
70.1
63.7
57.4
51.0
43.5
36.4
31.0
28.2
26.6
25.4
24.5
23.5
22.2
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