

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: P945185

Luminaire Tested: **GALN-SB1A-950-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945185  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
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-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

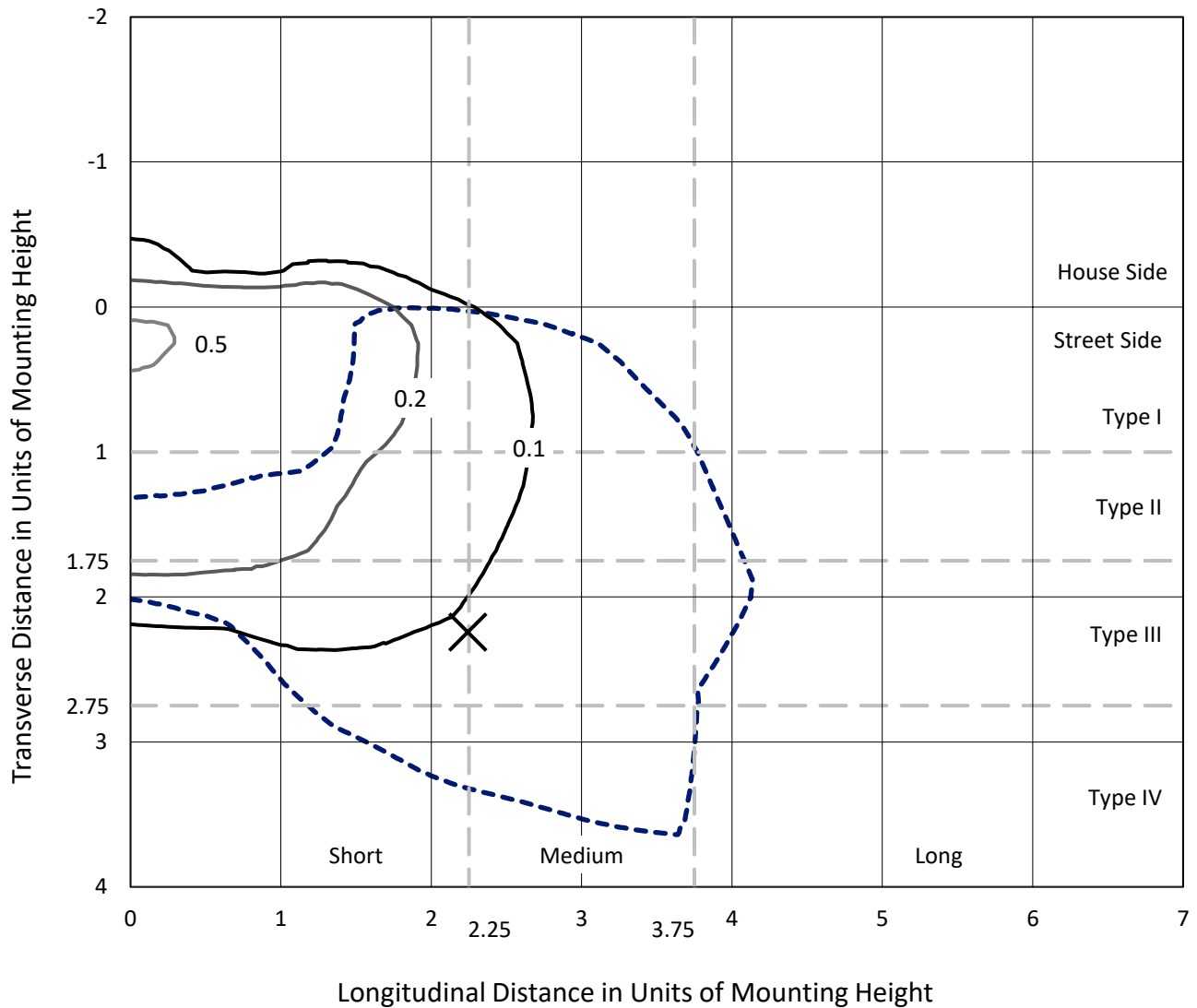
Lumens per Lamp: N/A  
Luminaire Lumens: 2405 lumens  
Efficiency: N/A  
Efficacy: 77.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

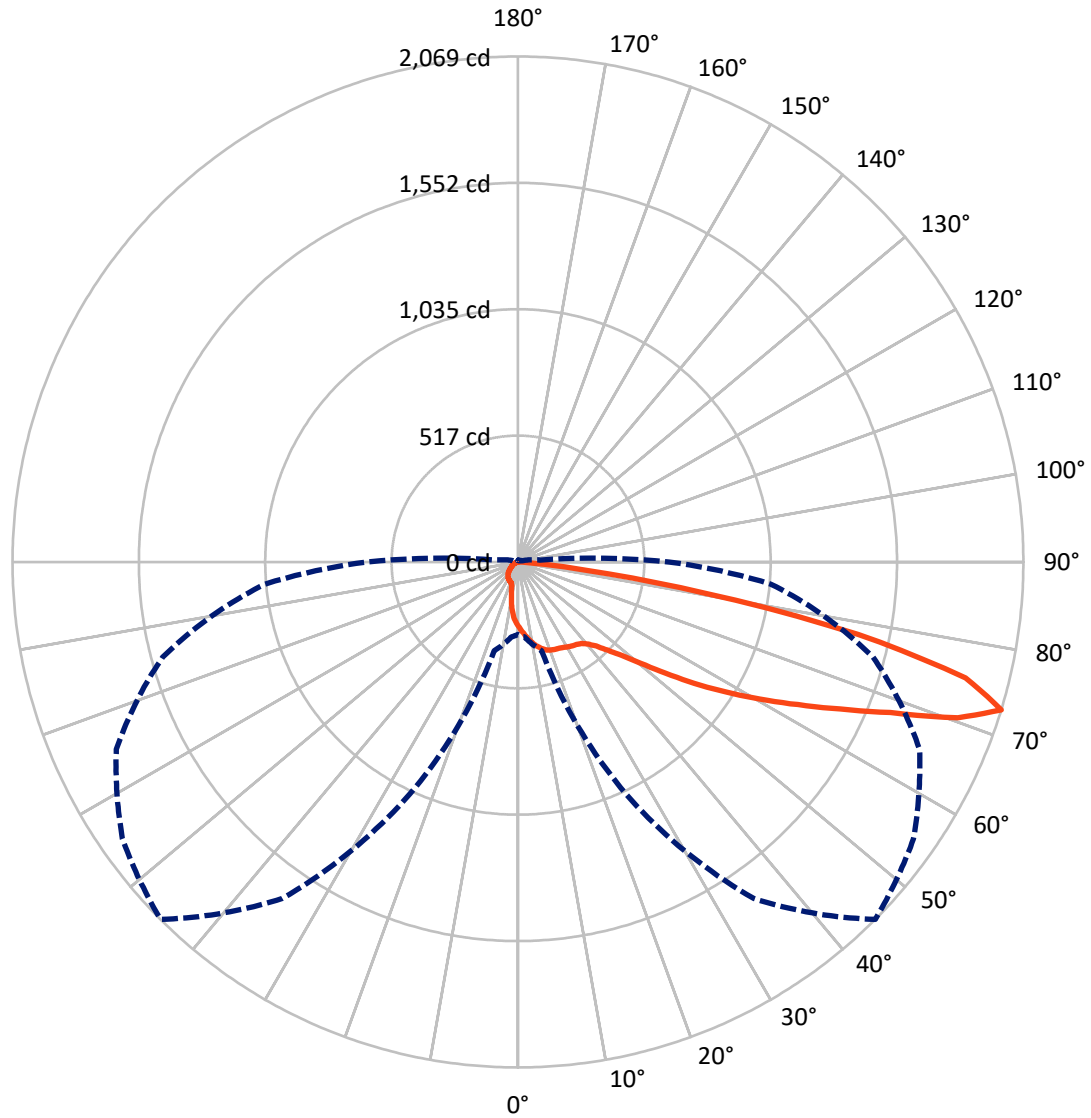
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	252.7	0.0	252.7
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	2152.3	0.0	2152.3
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	2405.0	0.0	2405.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.8	1.0
10°-20°	72.6	3.0
20°-30°	119.1	5.0
30°-40°	169.0	7.0
40°-50°	279.3	11.6
50°-60°	501.7	20.9
60°-70°	696.7	29.0
70°-80°	505.3	21.0
80°-90°	36.5	1.5
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°	2405.0	100.0
0°-180°	2405.0	100.0

**Coefficient of Utilization**



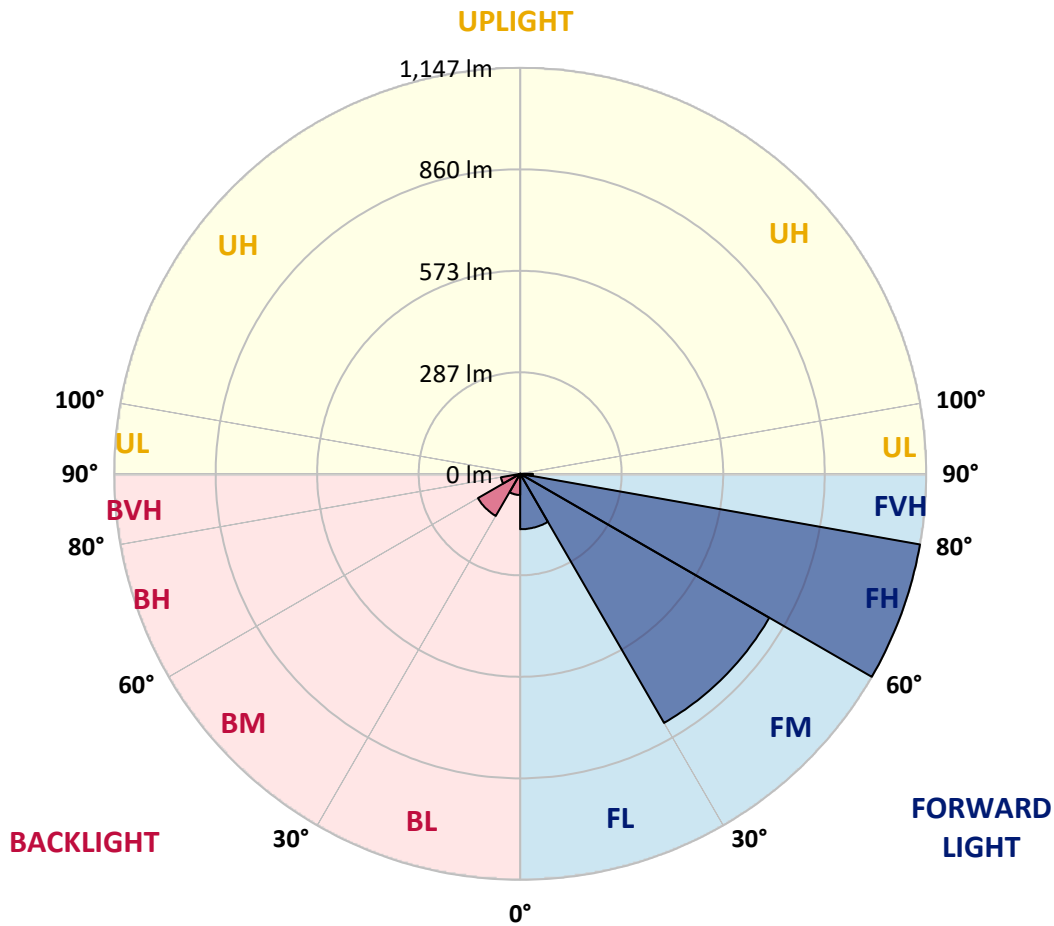
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	156.7	6.5			
FM (30°-60°)	812.5	33.8			
FH (60°-80°)	1146.9	47.7			G1/1800
FVH (80°-90°)	36.2	1.5			G1/100
BL (0°-30°)	59.9	2.5	B0/110		
BM (30°-60°)	137.4	5.7	B0/220		
BH (60°-80°)	55.1	2.3	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	263.5	263.5	263.5	263.5	263.5	263.5	263.5	263.5	263.5	263.5
2.5°	287.8	288.3	287.9	286.0	282.7	280.9	279.9	276.6	274.5	270.7
5°	314.2	316.2	315.0	311.1	304.8	300.4	299.1	292.4	286.3	279.2
7.5°	342.3	343.3	341.1	336.0	327.7	320.1	319.0	309.6	299.9	289.1
10°	366.6	367.7	364.4	357.0	347.5	338.2	336.5	326.2	314.7	301.4
12.5°	386.9	388.1	383.8	374.9	364.4	354.7	353.1	342.3	329.6	314.9
15°	402.4	404.5	398.7	389.2	377.9	368.2	367.4	356.7	344.4	328.0
17.5°	411.4	413.5	408.1	396.6	386.9	378.7	377.7	368.9	357.4	341.6
20°	412.9	414.8	409.1	399.1	391.0	384.5	384.0	377.6	369.2	354.1
22.5°	408.4	410.9	405.6	397.6	392.0	388.6	387.9	384.3	379.5	366.7
25°	403.8	405.8	401.9	394.8	391.8	391.5	392.0	391.4	390.4	379.5
27.5°	403.5	405.6	401.2	394.5	392.8	396.3	396.8	399.9	400.7	391.2
30°	406.3	407.8	403.5	396.4	395.6	403.5	403.7	409.2	410.6	401.0
32.5°	412.4	414.0	409.7	399.4	398.2	409.2	409.7	417.1	419.3	411.5
35°	426.6	428.6	423.7	407.6	403.5	414.7	416.1	424.8	429.1	422.7
37.5°	462.3	456.5	449.8	424.2	415.5	423.2	425.7	435.8	443.4	436.0
40°	550.7	532.7	511.7	452.4	436.5	441.4	443.4	453.6	463.9	456.7
42.5°	683.6	662.2	628.4	517.4	468.2	470.6	472.1	481.0	495.6	489.8
45°	801.9	794.2	759.7	628.4	527.4	515.3	517.1	521.7	543.2	541.1
47.5°	892.9	888.4	861.8	755.8	627.6	570.0	575.0	577.2	608.2	615.8
50°	962.8	961.1	937.3	869.1	758.4	650.6	652.4	647.8	694.2	712.9
52.5°	1028.8	1034.4	1016.8	974.3	898.1	756.1	755.8	734.1	796.8	825.1
55°	1088.4	1090.3	1092.1	1081.6	1038.6	876.3	873.2	837.7	915.8	945.1
57.5°	1144.3	1145.2	1161.3	1182.8	1184.9	1005.3	999.6	957.0	1045.8	1066.7
60°	1181.9	1185.7	1219.7	1279.4	1305.5	1138.4	1135.3	1092.0	1178.2	1187.8
62.5°	1127.8	1150.7	1236.4	1355.0	1419.5	1286.0	1284.5	1243.8	1317.4	1309.5
65°	912.9	951.8	1102.5	1406.0	1531.3	1450.8	1453.0	1409.6	1460.3	1434.7
67.5°	638.6	679.6	857.9	1410.1	1656.2	1644.4	1656.7	1588.7	1612.2	1554.7
70°	441.6	462.8	578.8	1321.8	1753.5	1911.0	1910.6	1808.7	1763.2	1609.4
72.5°	297.0	308.0	375.9	1048.6	1682.0	2069.4	2059.8	1976.8	1814.1	1505.2
75°	125.3	133.3	174.0	589.3	1330.7	1893.2	1867.5	1747.0	1611.9	1185.2
77.5°	39.7	43.2	68.6	210.9	733.0	1423.1	1395.8	1091.0	1080.3	594.6
80°	18.9	22.0	38.6	84.7	288.4	774.0	770.2	494.9	464.7	160.5
82.5°	8.2	9.7	21.3	45.3	129.0	276.1	281.7	168.4	139.4	60.9
85°	2.6	3.4	9.8	20.8	54.5	68.6	67.8	40.1	56.1	33.2
87.5°	0.0	0.0	3.3	4.8	5.6	3.9	4.4	3.4	15.6	9.2
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°
263.5	0°	263.5	263.5	263.5	263.5	263.5	263.5	263.5	263.5	263.5	263.5
266.8	2.5°	264.8	262.2	257.6	253.3	249.5	245.7	243.4	240.2	239.8	239.8
271.0	5°	266.6	262.3	254.1	245.4	235.4	225.9	216.4	207.2	204.2	202.1
277.9	7.5°	271.8	265.1	252.1	235.6	216.5	195.7	181.1	165.3	159.2	155.9
287.1	10°	279.4	270.2	250.5	221.4	190.6	162.2	141.3	124.3	117.7	114.9
297.1	12.5°	287.8	276.4	247.5	203.9	162.2	128.2	107.9	100.0	99.0	99.0
309.1	15°	297.8	284.0	242.5	183.2	132.5	101.4	94.2	94.6	95.5	96.2
320.8	17.5°	308.1	292.0	234.4	160.1	106.2	91.3	91.4	91.9	92.7	93.4
333.4	20°	319.3	300.1	223.7	135.4	91.1	88.3	88.8	89.3	90.0	90.3
345.2	22.5°	331.3	307.6	211.1	111.3	86.0	85.9	86.0	86.5	87.3	87.3
359.0	25°	344.1	316.0	196.7	93.7	83.4	83.4	83.7	84.0	84.7	84.7
372.3	27.5°	357.2	323.7	181.4	84.5	81.1	80.9	80.9	81.4	81.8	81.9
385.4	30°	371.7	332.7	166.1	82.6	79.3	78.5	78.0	78.3	78.6	78.8
399.2	32.5°	386.4	341.4	152.5	83.4	77.5	76.0	74.4	74.0	74.0	74.7
413.5	35°	402.8	351.0	142.0	86.2	76.5	72.4	69.8	68.3	68.5	69.4
430.6	37.5°	422.5	362.5	134.3	88.6	75.8	68.3	64.0	62.2	61.1	62.2
454.1	40°	448.3	379.4	128.7	90.6	75.0	63.5	57.8	54.8	52.7	53.4
490.5	42.5°	486.2	406.0	126.6	90.8	73.2	57.9	51.4	47.4	44.3	44.5
545.3	45°	539.4	448.0	137.6	88.6	69.3	51.9	44.7	39.4	37.4	36.9
627.2	47.5°	612.3	509.2	163.0	84.2	63.5	46.0	38.1	33.7	32.2	31.4
734.8	50°	710.0	587.8	191.2	79.3	57.8	40.4	32.7	29.9	28.9	28.1
862.3	52.5°	823.3	667.6	214.4	74.4	52.0	35.5	29.2	27.6	26.8	26.1
985.4	55°	927.2	722.6	213.1	69.1	46.5	31.5	26.8	25.8	24.8	24.1
1091.5	57.5°	991.8	730.3	175.6	63.4	40.1	28.4	24.5	23.8	22.7	21.8
1183.2	60°	1021.6	686.3	123.1	55.8	33.7	25.4	22.0	21.7	20.2	19.0
1270.1	62.5°	1027.0	604.6	82.1	46.5	28.1	22.7	19.5	19.0	17.1	15.1
1340.7	65°	1005.0	487.7	56.8	36.3	24.0	19.7	16.7	15.8	13.6	11.7
1357.4	67.5°	935.4	342.4	39.6	26.1	20.4	15.6	13.3	13.0	11.3	9.7
1272.1	70°	807.8	195.2	26.4	19.5	16.1	10.7	10.5	10.8	9.2	7.9
1039.3	72.5°	619.4	89.3	16.4	14.3	11.0	7.2	8.4	8.5	7.1	5.9
648.4	75°	364.6	38.2	10.3	9.2	5.6	4.8	6.1	6.2	4.8	3.8
237.0	77.5°	124.1	14.4	6.6	5.4	2.8	2.6	3.9	3.9	2.6	1.5
47.6	80°	28.2	5.4	3.3	2.1	1.3	1.1	1.3	1.1	0.7	0.2
14.6	82.5°	8.0	2.1	1.3	0.8	0.5	0.5	0.2	0.0	0.0	0.0
5.1	85°	2.3	1.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
1.8	87.5°	1.0	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>
263.5
240.7
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