

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: P944994

Luminaire Tested: **GALN-SB1A-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944994
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-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 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: 3249 lumens
Efficiency: N/A
Efficacy: 105.1 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

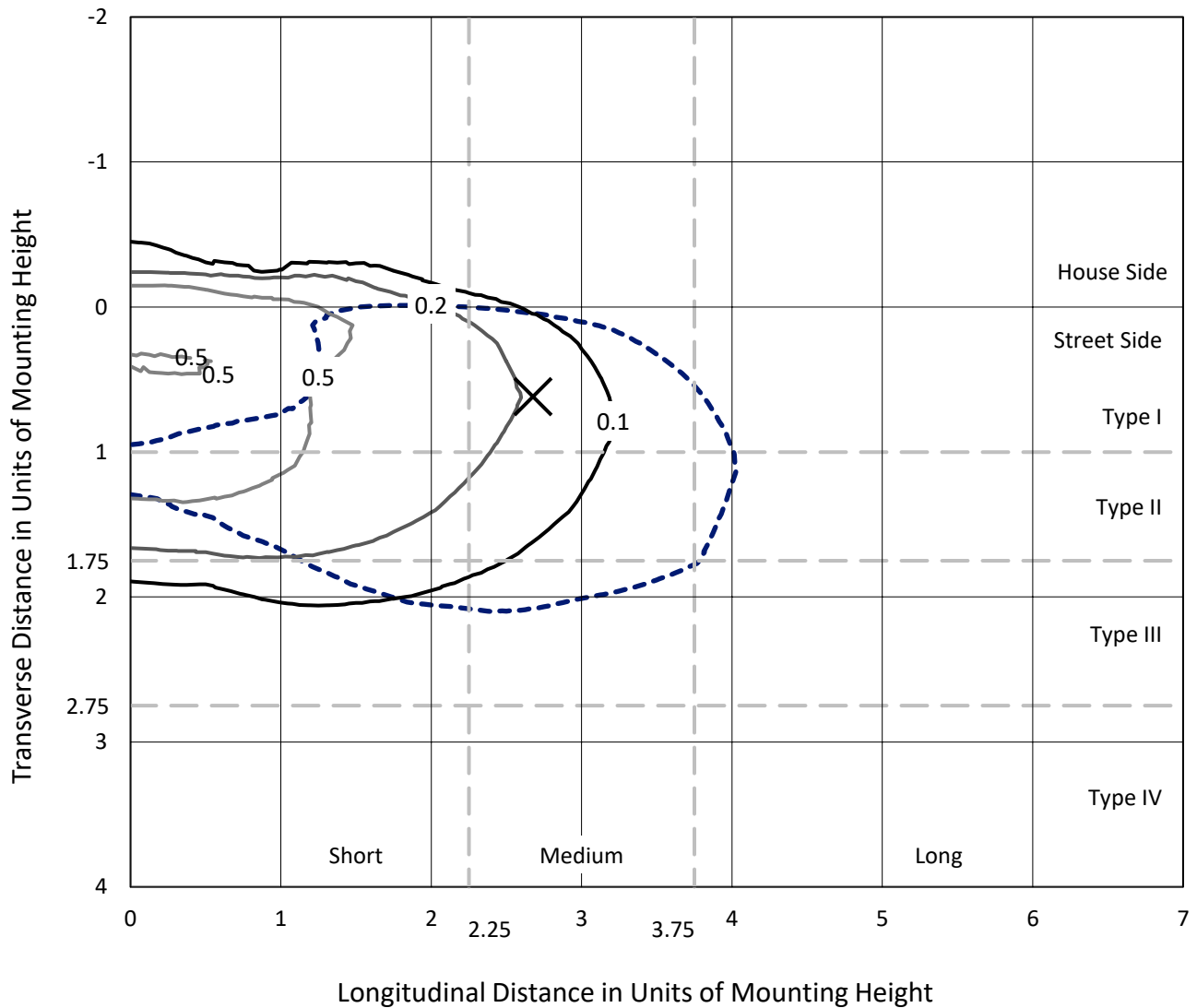
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

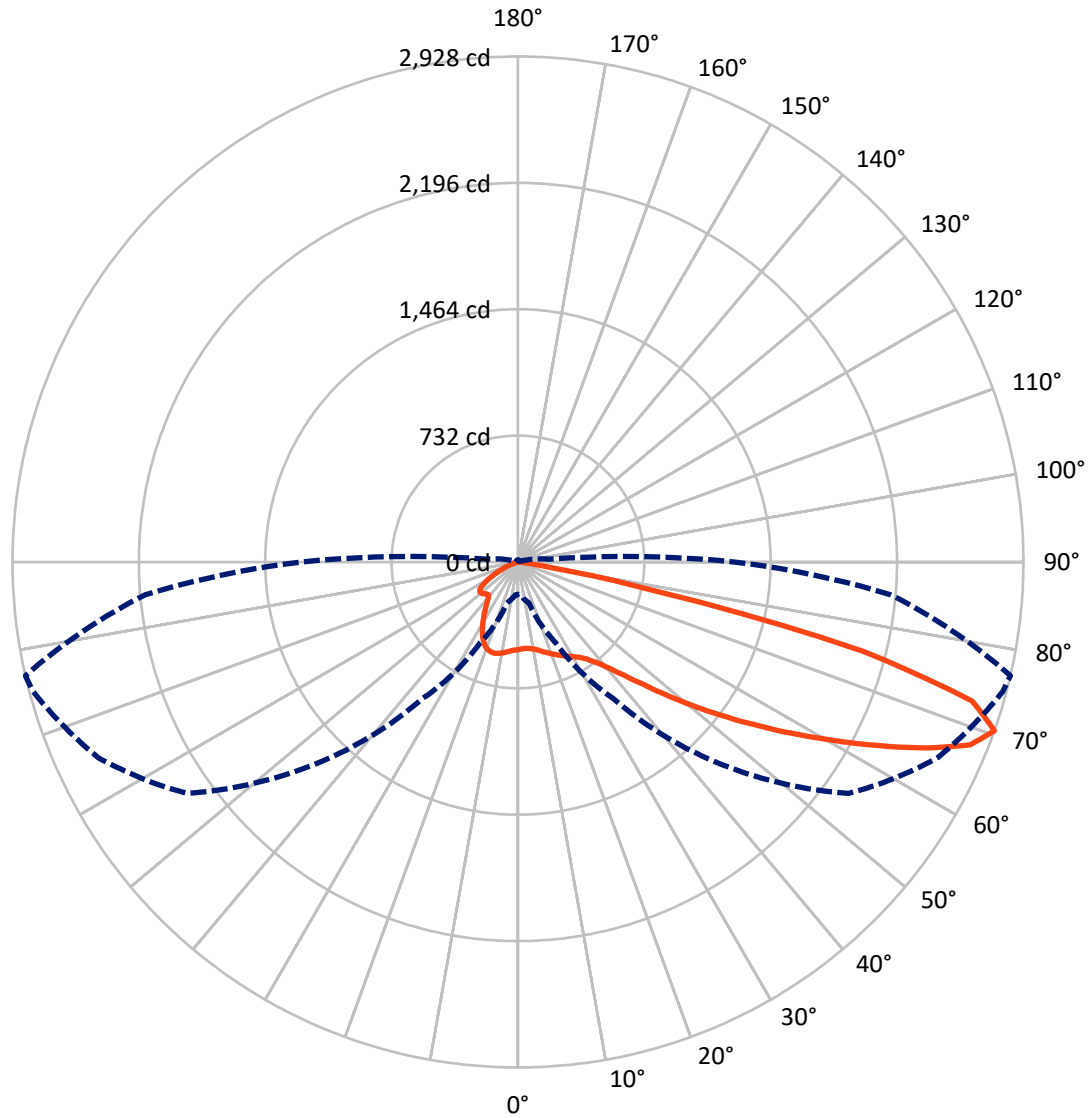
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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
House Side	Lumens	342.5	0.0	342.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	2906.5	0.0	2906.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	3249.0	0.0	3249.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.7	1.3
10°-20°	103.7	3.2
20°-30°	160.4	4.9
30°-40°	291.0	9.0
40°-50°	549.3	16.9
50°-60°	793.7	24.4
60°-70°	844.9	26.0
70°-80°	447.7	13.8
80°-90°	14.7	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°	3249.0	100.0
0°-180°	3249.0	100.0

Coefficient of Utilization



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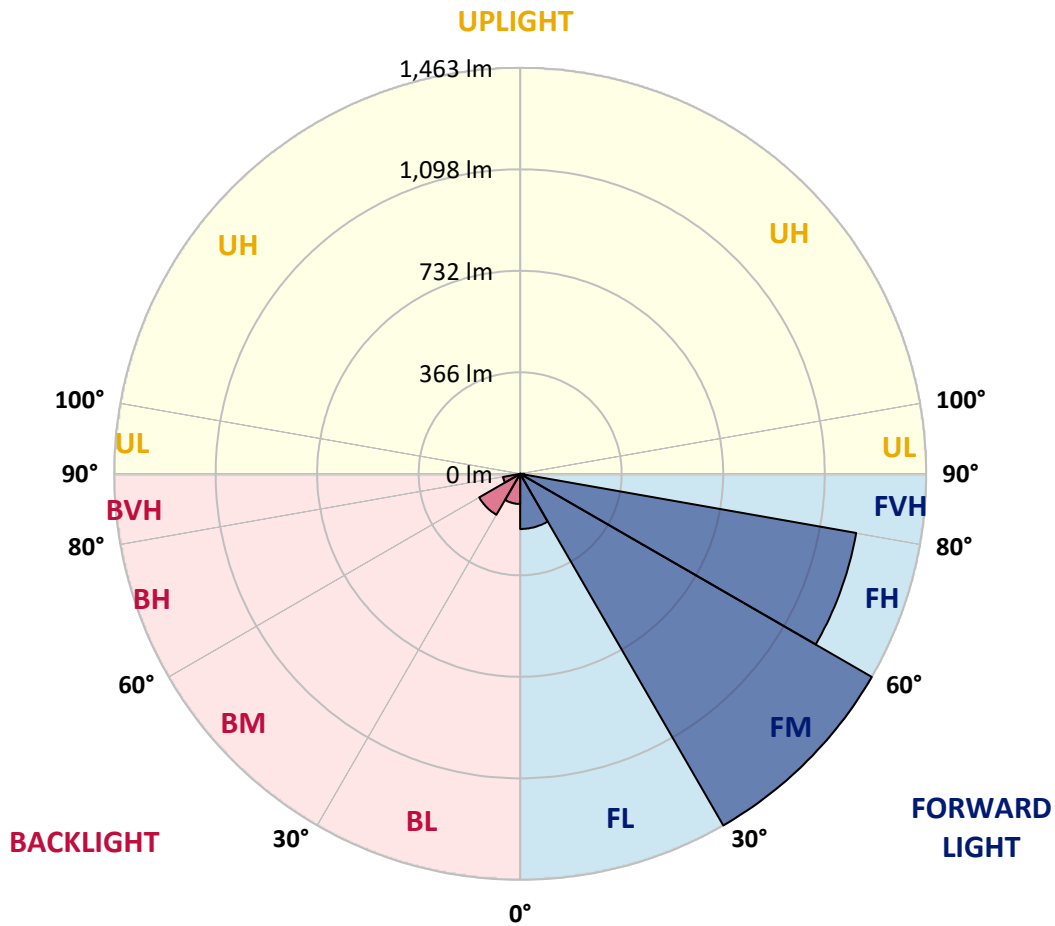
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	198.9	6.1			
FM (30°-60°)	1463.5	45.0			
FH (60°-80°)	1229.8	37.9			G1/1800
FVH (80°-90°)	14.3	0.4			G1/100
BL (0°-30°)	108.8	3.3	B0/110		
BM (30°-60°)	170.5	5.2	B0/220		
BH (60°-80°)	62.8	1.9	B0/110		G0/110
BVH (80°-90°)	0.4	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°	506.8	506.8	506.8	506.8	506.8	506.8	506.8	506.8	506.8	506.8
2.5°	475.8	480.1	479.5	482.4	483.4	487.5	491.6	497.1	503.3	503.1
5°	448.9	453.2	454.3	458.2	463.1	469.4	477.9	488.9	500.4	502.3
7.5°	417.1	421.6	424.3	432.1	441.1	454.3	468.0	484.2	503.3	506.0
10°	385.3	389.4	392.9	404.0	418.4	437.8	460.2	483.6	509.2	513.1
12.5°	365.6	369.5	373.4	383.1	400.9	424.7	455.1	486.5	519.1	524.6
15°	358.6	362.1	365.2	373.8	390.5	417.5	454.1	492.4	531.6	539.0
17.5°	359.7	361.5	363.6	370.1	386.3	414.3	455.9	502.7	546.4	552.9
20°	365.6	366.6	366.9	371.4	385.7	413.8	459.6	512.5	560.3	569.2
22.5°	373.2	373.6	373.2	376.3	389.6	416.9	464.5	524.4	575.9	584.1
25°	408.7	400.9	391.1	385.1	396.2	422.9	471.9	540.4	593.0	601.0
27.5°	518.9	496.5	461.2	421.6	409.7	431.5	482.2	556.6	610.2	617.4
30°	697.8	668.5	608.6	519.3	453.2	449.5	495.5	572.9	628.5	636.3
32.5°	877.1	869.9	800.8	677.3	551.1	489.8	517.7	594.8	652.7	658.8
35°	1058.5	1043.9	987.3	865.2	701.9	571.6	554.6	623.5	684.5	691.4
37.5°	1197.4	1188.6	1153.5	1053.0	880.8	698.0	617.8	668.1	730.6	738.4
40°	1320.1	1316.0	1304.1	1237.8	1080.9	863.4	716.1	737.0	794.6	803.9
42.5°	1416.5	1426.2	1433.0	1414.5	1287.1	1052.1	848.2	833.8	883.9	893.3
45°	1515.2	1518.5	1545.8	1572.5	1491.8	1249.5	997.2	947.3	994.9	1006.6
47.5°	1578.6	1591.8	1639.8	1686.8	1664.0	1445.3	1157.2	1081.3	1123.5	1145.5
50°	1583.3	1608.2	1674.2	1756.1	1789.3	1631.6	1331.2	1233.9	1278.9	1303.1
52.5°	1504.8	1543.3	1645.7	1765.5	1857.1	1789.3	1511.1	1386.6	1444.2	1475.8
55°	1153.7	1204.2	1538.4	1714.2	1859.7	1909.0	1686.3	1545.6	1628.5	1664.2
57.5°	1005.2	1030.6	1209.5	1625.2	1810.3	1957.2	1844.7	1697.0	1828.9	1873.3
60°	836.3	869.7	1014.4	1479.5	1743.2	1961.9	1984.7	1892.3	2046.2	2096.1
62.5°	568.3	604.7	748.5	1229.2	1651.5	1959.6	2099.4	2093.4	2287.7	2341.3
65°	352.1	374.9	469.6	1003.7	1523.2	1962.1	2219.4	2337.6	2542.5	2596.9
67.5°	278.2	288.7	338.1	770.6	1302.3	1906.7	2339.2	2567.2	2782.4	2825.5
70°	186.9	193.3	246.0	516.6	968.8	1651.1	2337.0	2682.5	2905.9	2927.5
72.5°	98.5	103.4	143.8	239.2	585.2	1173.6	1969.9	2544.6	2783.0	2750.6
75°	49.2	57.4	96.8	121.5	249.9	654.5	1223.3	2006.2	2190.5	2064.9
77.5°	37.3	45.1	80.0	80.0	87.0	220.4	518.1	1094.2	1009.3	840.4
80°	23.8	30.8	70.0	60.5	36.3	56.0	135.0	306.5	214.4	163.1
82.5°	14.0	20.1	58.3	40.0	20.3	20.7	38.2	65.2	55.6	43.3
85°	5.5	13.1	40.0	15.8	8.0	5.1	11.5	14.0	11.5	8.6
87.5°	0.0	3.1	7.0	0.0	0.6	0.4	0.8	1.0	1.0	0.8
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°
506.8	0°	506.8	506.8	506.8	506.8	506.8	506.8	506.8	506.8	506.8	506.8
507.2	2.5°	509.0	509.5	510.7	510.9	508.0	504.3	502.9	502.3	499.8	499.6
510.5	5°	515.2	517.0	515.2	509.9	497.1	479.3	465.8	454.7	444.6	441.5
521.8	7.5°	527.5	529.4	523.8	502.9	470.9	435.4	403.4	380.8	360.5	352.9
535.5	10°	545.2	547.6	530.2	487.9	431.3	374.2	320.1	281.9	252.2	240.1
554.2	12.5°	567.3	568.3	533.7	465.1	379.8	298.3	221.6	180.8	154.3	144.4
576.8	15°	591.7	590.3	534.1	434.2	309.6	210.9	144.6	118.8	108.1	104.8
599.3	17.5°	617.4	611.4	525.9	389.4	232.7	144.2	107.3	101.2	99.3	98.5
621.7	20°	642.6	629.3	510.9	330.9	167.0	107.7	97.5	95.6	94.6	94.2
644.3	22.5°	665.6	642.8	485.2	263.0	121.3	95.2	92.1	90.5	88.6	87.8
666.2	25°	688.0	650.6	449.1	199.6	97.0	89.0	86.6	83.5	81.0	80.0
689.8	27.5°	709.7	655.5	404.0	147.7	86.6	83.3	78.8	74.5	72.6	72.2
715.0	30°	732.9	657.2	352.7	110.2	80.2	76.1	69.6	64.6	63.6	63.8
749.1	32.5°	761.2	659.6	301.0	90.3	74.9	67.5	59.7	54.6	53.8	54.6
798.8	35°	795.1	664.6	251.1	83.1	70.2	58.7	50.3	46.0	45.1	45.8
862.4	37.5°	841.0	672.6	204.6	81.7	66.3	51.3	42.3	38.8	38.8	39.0
940.3	40°	902.2	693.9	162.9	80.6	64.2	45.8	35.7	34.3	34.9	35.3
1039.6	42.5°	976.6	739.3	134.8	79.4	62.0	43.3	32.4	31.8	32.8	33.2
1158.6	45°	1060.1	796.7	125.0	77.4	59.9	44.9	31.0	30.2	31.4	31.6
1292.0	47.5°	1146.5	852.9	123.7	75.1	57.9	47.4	30.6	28.7	30.2	30.4
1434.4	50°	1233.9	889.6	125.0	71.6	54.6	47.4	30.8	27.3	28.5	29.1
1582.1	52.5°	1322.0	906.5	124.1	64.0	48.8	44.5	30.8	26.1	27.3	27.7
1741.7	55°	1407.3	903.2	111.6	52.7	41.4	39.4	30.0	25.0	25.9	26.1
1892.5	57.5°	1474.8	857.4	88.4	41.0	33.6	32.8	27.3	23.8	24.4	24.2
2030.8	60°	1510.1	756.9	63.2	31.6	26.5	25.9	24.0	22.2	22.6	21.5
2148.0	62.5°	1510.5	623.9	42.3	25.0	21.1	20.5	20.5	19.9	19.5	17.4
2238.7	65°	1478.3	476.4	28.1	19.9	17.0	16.0	17.2	17.0	15.6	12.7
2266.4	67.5°	1405.3	312.3	21.3	15.6	13.1	12.5	13.7	14.4	13.3	10.7
2165.4	70°	1255.1	181.8	17.6	12.1	9.8	9.2	11.1	12.3	11.1	8.6
1850.9	72.5°	1042.5	98.1	14.4	9.0	6.8	6.2	8.8	10.1	8.8	6.4
1187.6	75°	676.5	52.5	11.1	6.0	3.5	3.9	6.6	7.4	6.2	4.1
348.6	77.5°	227.1	23.2	7.0	2.9	1.6	1.6	3.9	4.5	2.9	1.4
63.4	80°	50.7	9.6	2.9	1.2	0.6	0.6	0.8	0.8	0.4	0.0
19.5	82.5°	16.6	3.9	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0
4.9	85°	6.4	1.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.6	87.5°	2.5	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

180°
506.8
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