

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: P945876

Luminaire Tested: **GALN-SB1C-940-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945876
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-SB1C-940-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 615mA 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: 4520 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

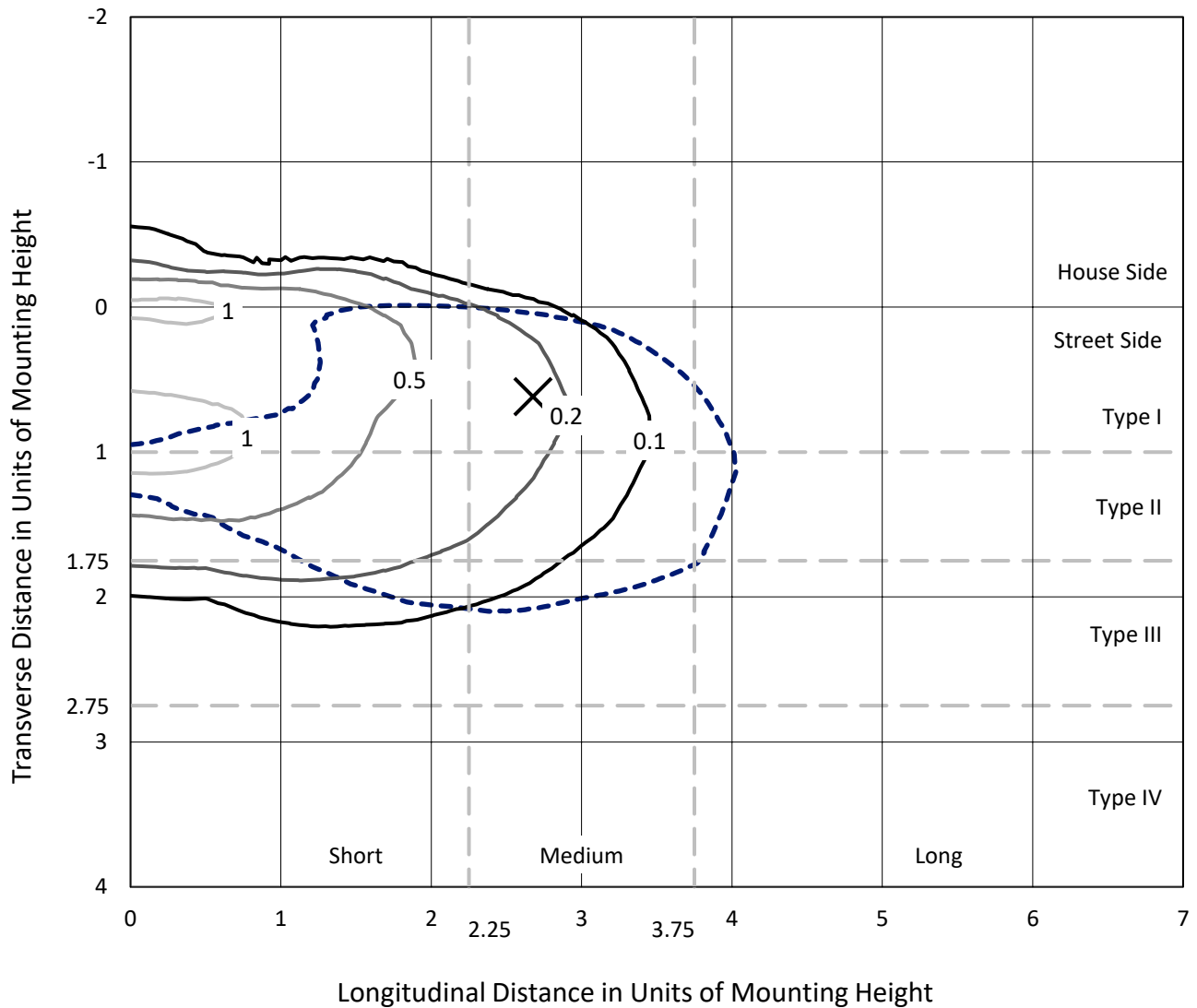
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

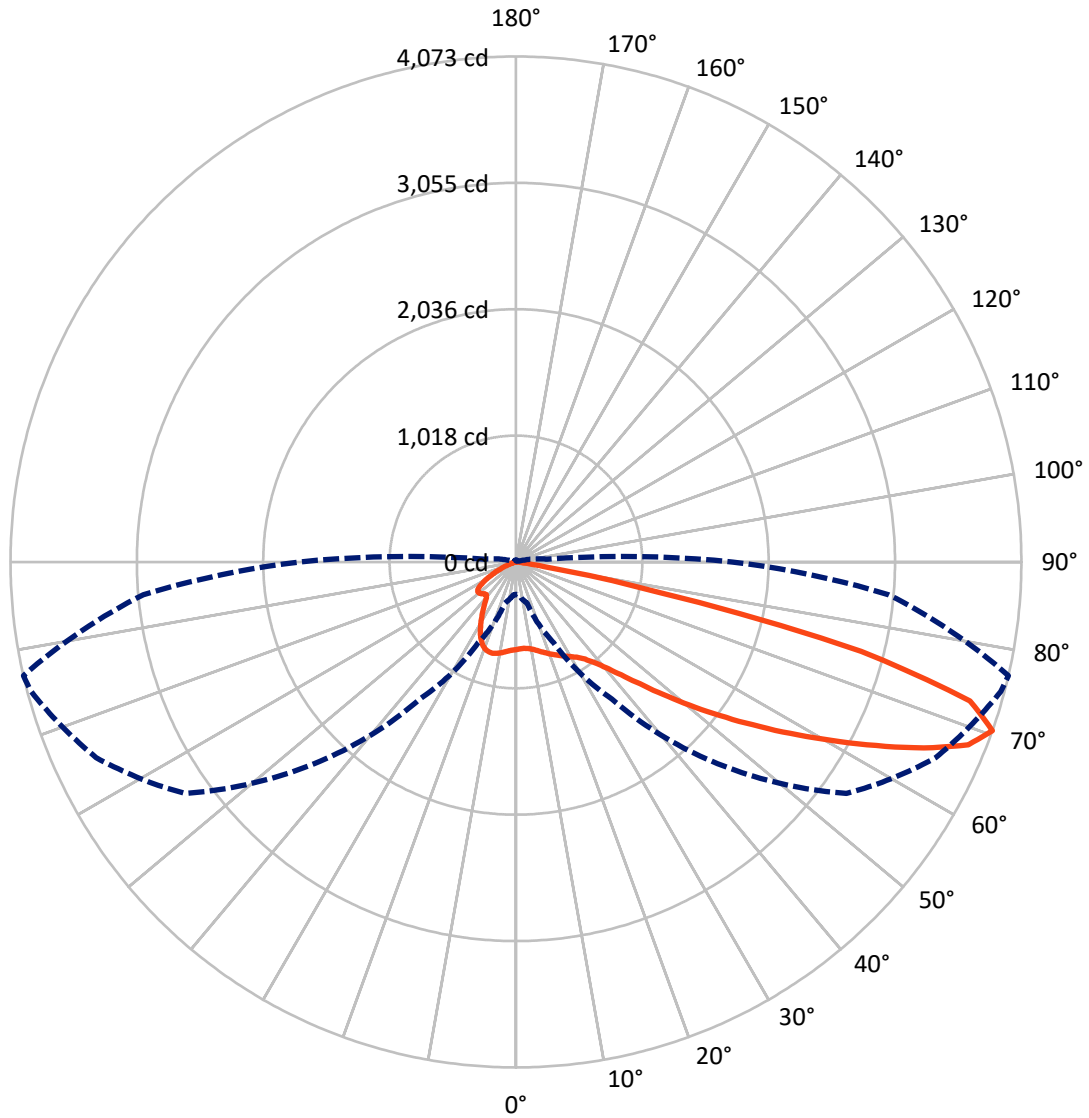
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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	476.5	0.0	476.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	4043.5	0.0	4043.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	4520.0	0.0	4520.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.8	1.3
10°-20°	144.2	3.2
20°-30°	223.1	4.9
30°-40°	404.8	9.0
40°-50°	764.2	16.9
50°-60°	1104.2	24.4
60°-70°	1175.4	26.0
70°-80°	622.9	13.8
80°-90°	20.5	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°	4520.0	100.0
0°-180°	4520.0	100.0

Coefficient of Utilization



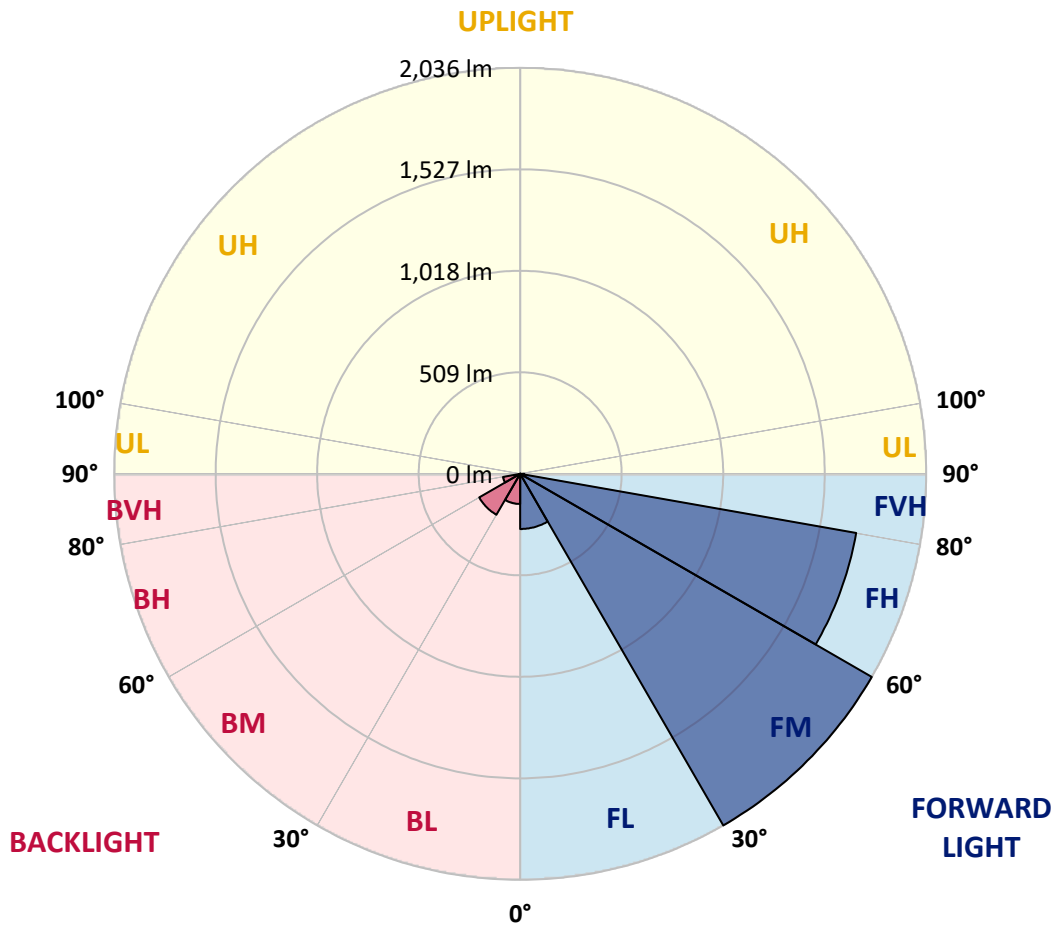
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	276.7	6.1			
FM (30°-60°)	2036.0	45.0			
FH (60°-80°)	1710.9	37.9			G1/1800
FVH (80°-90°)	19.9	0.4			G1/100
BL (0°-30°)	151.4	3.3	B1/500		
BM (30°-60°)	237.2	5.2	B1/1000		
BH (60°-80°)	87.4	1.9	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0
2.5°	661.9	667.9	667.1	671.1	672.5	678.2	683.9	691.6	700.2	699.9
5°	624.5	630.5	632.0	637.4	644.2	653.1	664.8	680.2	696.2	698.8
7.5°	580.3	586.6	590.3	601.1	613.7	632.0	651.1	673.6	700.2	703.9
10°	536.1	541.8	546.6	562.0	582.0	609.1	640.2	672.8	708.5	713.9
12.5°	508.7	514.1	519.5	532.9	557.8	590.9	633.1	676.8	722.2	729.9
15°	499.0	503.8	508.1	520.1	543.2	580.9	631.7	685.1	739.6	749.9
17.5°	500.4	502.9	505.8	514.9	537.5	576.3	634.2	699.3	760.1	769.3
20°	508.7	510.1	510.4	516.6	536.6	575.7	639.4	713.0	779.5	791.8
22.5°	519.2	519.8	519.2	523.5	542.1	580.0	646.2	729.6	801.2	812.6
25°	568.6	557.8	544.0	535.8	551.2	588.3	656.5	751.9	824.9	836.1
27.5°	721.9	690.8	641.7	586.6	570.0	600.3	670.8	774.4	848.9	858.9
30°	970.8	930.0	846.6	722.5	630.5	625.4	689.3	797.0	874.3	885.2
32.5°	1220.3	1210.3	1114.1	942.2	766.7	681.3	720.2	827.5	908.0	916.5
35°	1472.6	1452.3	1373.5	1203.7	976.5	795.2	771.5	867.5	952.2	961.9
37.5°	1665.8	1653.6	1604.7	1464.9	1225.4	971.1	859.5	929.4	1016.5	1027.3
40°	1836.5	1830.8	1814.3	1722.1	1503.7	1201.1	996.2	1025.3	1105.5	1118.4
42.5°	1970.7	1984.1	1993.5	1967.8	1790.6	1463.7	1180.0	1160.0	1229.7	1242.8
45°	2108.0	2112.5	2150.5	2187.6	2075.4	1738.3	1387.2	1317.9	1384.1	1400.4
47.5°	2196.2	2214.4	2281.2	2346.6	2314.9	2010.6	1609.9	1504.3	1563.1	1593.6
50°	2202.7	2237.3	2329.2	2443.1	2489.3	2269.8	1851.9	1716.6	1779.2	1812.8
52.5°	2093.4	2147.1	2289.5	2456.2	2583.5	2489.3	2102.3	1929.0	2009.2	2053.2
55°	1605.0	1675.3	2140.2	2384.9	2587.2	2655.7	2346.0	2150.2	2265.5	2315.2
57.5°	1398.4	1433.8	1682.7	2261.0	2518.4	2722.8	2566.4	2360.9	2544.4	2606.1
60°	1163.5	1210.0	1411.2	2058.3	2425.1	2729.4	2761.1	2632.6	2846.7	2916.1
62.5°	790.7	841.2	1041.3	1710.1	2297.5	2726.2	2920.6	2912.4	3182.7	3257.2
65°	489.8	521.5	653.4	1396.4	2119.1	2729.7	3087.6	3252.0	3537.2	3612.8
67.5°	387.1	401.6	470.4	1072.1	1811.7	2652.6	3254.3	3571.4	3870.9	3930.8
70°	260.0	268.9	342.2	718.7	1347.9	2296.9	3251.2	3731.9	4042.7	4072.7
72.5°	137.0	143.9	200.1	332.8	814.1	1632.7	2740.5	3540.0	3871.7	3826.6
75°	68.5	79.9	134.7	169.0	347.7	910.6	1701.8	2791.0	3047.4	2872.7
77.5°	52.0	62.8	111.3	111.3	121.0	306.6	720.7	1522.3	1404.1	1169.2
80°	33.1	42.8	97.3	84.2	50.5	77.9	187.8	426.4	298.3	226.9
82.5°	19.4	28.0	81.1	55.7	28.3	28.8	53.1	90.8	77.4	60.2
85°	7.7	18.3	55.7	22.0	11.1	7.1	16.0	19.4	16.0	12.0
87.5°	0.0	4.3	9.7	0.0	0.9	0.6	1.1	1.4	1.4	1.1
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°
705.0	0°	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0
705.6	2.5°	708.2	708.7	710.5	710.7	706.8	701.6	699.6	698.8	695.3	695.0
710.2	5°	716.7	719.3	716.7	709.3	691.6	666.8	648.0	632.5	618.5	614.3
725.9	7.5°	733.9	736.4	728.7	699.6	655.1	605.7	561.2	529.8	501.5	491.0
745.0	10°	758.4	761.8	737.6	678.8	600.0	520.6	445.3	392.2	350.8	334.0
771.0	12.5°	789.2	790.7	742.4	647.1	528.4	415.0	308.3	251.5	214.7	201.0
802.4	15°	823.2	821.2	743.0	604.0	430.7	293.4	201.2	165.3	150.4	145.9
833.8	17.5°	858.9	850.6	731.6	541.8	323.7	200.7	149.3	140.7	138.2	137.0
864.9	20°	894.0	875.4	710.7	460.4	232.3	149.9	135.6	133.0	131.6	131.0
896.3	22.5°	926.0	894.3	675.1	365.9	168.7	132.4	128.2	125.9	123.3	122.2
926.8	25°	957.1	905.1	624.8	277.7	135.0	123.9	120.5	116.2	112.7	111.3
959.7	27.5°	987.3	912.0	562.0	205.5	120.5	115.9	109.6	103.6	101.0	100.5
994.8	30°	1019.6	914.3	490.7	153.3	111.6	105.9	96.8	89.9	88.5	88.8
1042.1	32.5°	1059.0	917.7	418.7	125.6	104.2	93.9	83.1	75.9	74.8	75.9
1111.2	35°	1106.1	924.5	349.4	115.6	97.6	81.6	69.9	63.9	62.8	63.7
1199.7	37.5°	1170.0	935.7	284.6	113.6	92.2	71.4	58.8	53.9	53.9	54.2
1308.2	40°	1255.1	965.4	226.6	112.2	89.3	63.7	49.7	47.7	48.5	49.1
1446.3	42.5°	1358.7	1028.4	187.5	110.5	86.2	60.2	45.1	44.2	45.7	46.2
1611.9	45°	1474.9	1108.4	173.8	107.6	83.3	62.5	43.1	42.0	43.7	44.0
1797.4	47.5°	1595.0	1186.6	172.1	104.5	80.5	65.9	42.5	40.0	42.0	42.2
1995.5	50°	1716.6	1237.7	173.8	99.6	75.9	65.9	42.8	38.0	39.7	40.5
2201.0	52.5°	1839.1	1261.1	172.7	89.1	67.9	61.9	42.8	36.3	38.0	38.5
2423.1	55°	1957.8	1256.5	155.3	73.4	57.7	54.8	41.7	34.8	36.0	36.3
2632.9	57.5°	2051.7	1192.9	123.0	57.1	46.8	45.7	38.0	33.1	34.0	33.7
2825.3	60°	2100.8	1053.0	87.9	44.0	36.8	36.0	33.4	30.8	31.4	30.0
2988.3	62.5°	2101.4	868.0	58.8	34.8	29.4	28.5	28.5	27.7	27.1	24.3
3114.4	65°	2056.6	662.8	39.1	27.7	23.7	22.3	24.0	23.7	21.7	17.7
3153.0	67.5°	1955.0	434.4	29.7	21.7	18.3	17.4	19.1	20.0	18.6	14.8
3012.5	70°	1746.0	252.9	24.5	16.8	13.7	12.8	15.4	17.1	15.4	12.0
2575.0	72.5°	1450.3	136.4	20.0	12.6	9.4	8.6	12.3	14.0	12.3	8.8
1652.1	75°	941.1	73.1	15.4	8.3	4.9	5.4	9.1	10.3	8.6	5.7
485.0	77.5°	316.0	32.3	9.7	4.0	2.3	2.3	5.4	6.3	4.0	2.0
88.2	80°	70.5	13.4	4.0	1.7	0.9	0.9	1.1	1.1	0.6	0.0
27.1	82.5°	23.1	5.4	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0
6.9	85°	8.8	2.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.3	87.5°	3.4	0.3	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>
705.0
695.6
611.7
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110.8
99.9
88.8
75.6
63.4
53.9
49.1
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