

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: P944931

Luminaire Tested: **GALN-SB1A-740-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944931
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-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 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: 3952 lumens
Efficiency: N/A
Efficacy: 127.9 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

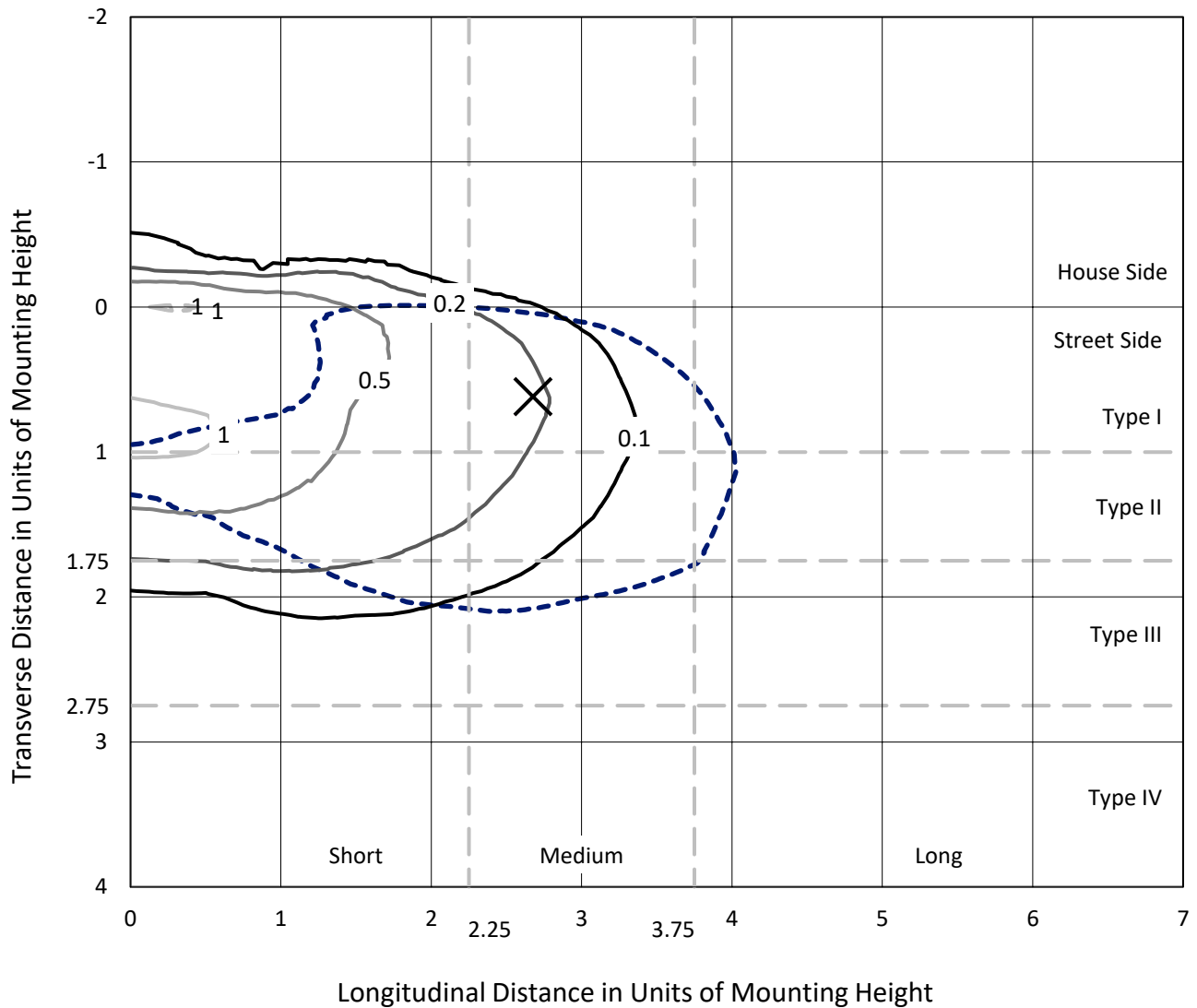
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

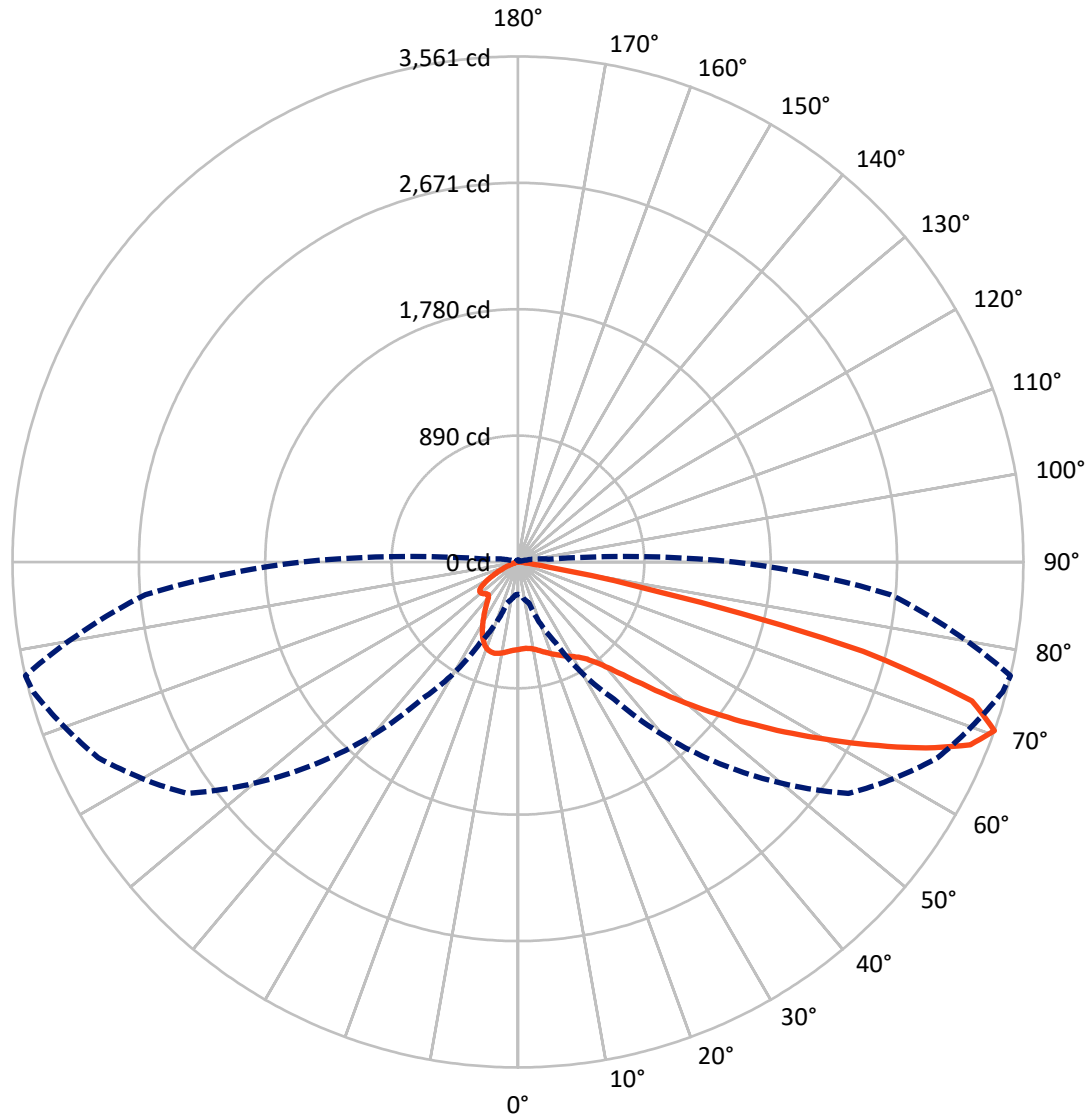
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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	416.6	0.0	416.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	3535.4	0.0	3535.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	3952.0	0.0	3952.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	1.3
10°-20°	126.1	3.2
20°-30°	195.1	4.9
30°-40°	354.0	9.0
40°-50°	668.2	16.9
50°-60°	965.4	24.4
60°-70°	1027.7	26.0
70°-80°	544.6	13.8
80°-90°	17.9	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°	3952.0	100.0
0°-180°	3952.0	100.0

Coefficient of Utilization



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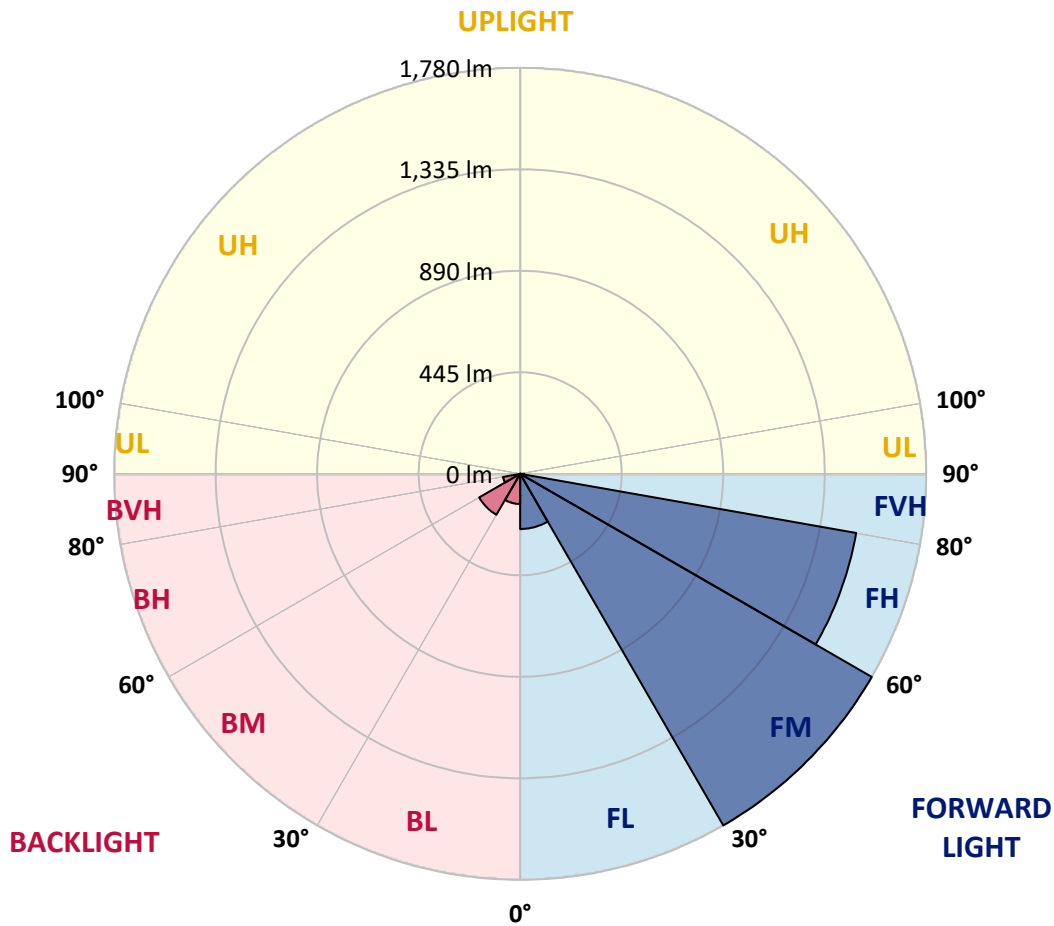
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	242.0	6.1			
FM (30°-60°)	1780.2	45.0			
FH (60°-80°)	1495.9	37.9			G1/1800
FVH (80°-90°)	17.4	0.4			G1/100
BL (0°-30°)	132.4	3.3	B1/500		
BM (30°-60°)	207.4	5.2	B0/220		
BH (60°-80°)	76.4	1.9	B0/110		G0/110
BVH (80°-90°)	0.5	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°	616.4	616.4	616.4	616.4	616.4	616.4	616.4	616.4	616.4	616.4
2.5°	578.8	584.0	583.2	586.7	588.0	593.0	598.0	604.7	612.2	611.9
5°	546.1	551.3	552.6	557.3	563.3	571.0	581.3	594.7	608.7	611.0
7.5°	507.4	512.9	516.1	525.6	536.6	552.6	569.3	589.0	612.2	615.4
10°	468.7	473.7	477.9	491.4	508.9	532.6	559.8	588.2	619.4	624.2
12.5°	444.7	449.5	454.2	465.9	487.7	516.6	553.5	591.7	631.4	638.2
15°	436.3	440.5	444.2	454.7	474.9	507.9	552.3	599.0	646.6	655.6
17.5°	437.5	439.7	442.2	450.2	469.9	503.9	554.5	611.4	664.6	672.6
20°	444.7	446.0	446.2	451.7	469.2	503.4	559.0	623.4	681.6	692.3
22.5°	454.0	454.5	454.0	457.7	473.9	507.1	565.0	637.9	700.5	710.5
25°	497.1	487.7	475.7	468.4	481.9	514.4	574.0	657.4	721.3	731.0
27.5°	631.2	604.0	561.0	512.9	498.4	524.8	586.5	677.1	742.2	751.0
30°	848.8	813.1	740.2	631.7	551.3	546.8	602.7	696.8	764.4	773.9
32.5°	1066.9	1058.2	974.1	823.8	670.3	595.7	629.7	723.5	793.9	801.4
35°	1287.5	1269.8	1200.9	1052.4	853.8	695.3	674.6	758.4	832.6	841.1
37.5°	1456.5	1445.8	1403.1	1280.8	1071.4	849.0	751.5	812.6	888.7	898.2
40°	1605.7	1600.7	1586.3	1505.7	1314.7	1050.2	871.0	896.5	966.6	977.8
42.5°	1723.0	1734.8	1743.0	1720.5	1565.6	1279.8	1031.7	1014.3	1075.2	1086.6
45°	1843.1	1847.1	1880.3	1912.7	1814.6	1519.9	1212.9	1152.3	1210.2	1224.4
47.5°	1920.2	1936.2	1994.6	2051.7	2024.0	1758.0	1407.6	1315.2	1366.7	1393.4
50°	1925.9	1956.1	2036.5	2136.1	2176.5	1984.6	1619.2	1500.9	1555.6	1585.0
52.5°	1830.4	1877.3	2001.8	2147.6	2258.9	2176.5	1838.1	1686.6	1756.7	1795.2
55°	1403.3	1464.7	1871.3	2085.2	2262.1	2322.0	2051.2	1880.0	1980.8	2024.3
57.5°	1222.6	1253.6	1471.2	1976.9	2202.0	2380.7	2243.9	2064.2	2224.7	2278.6
60°	1017.3	1057.9	1233.9	1799.7	2120.4	2386.4	2414.1	2301.8	2489.0	2549.6
62.5°	691.3	735.5	910.4	1495.2	2008.8	2383.7	2553.6	2546.4	2782.7	2847.9
65°	428.3	456.0	571.3	1220.9	1852.8	2386.6	2699.6	2843.4	3092.7	3158.8
67.5°	338.4	351.1	411.3	937.4	1584.0	2319.3	2845.4	3122.6	3384.4	3436.8
70°	227.4	235.1	299.2	628.4	1178.5	2008.3	2842.6	3262.9	3534.7	3560.9
72.5°	119.8	125.8	174.9	291.0	711.8	1427.5	2396.1	3095.2	3385.2	3345.8
75°	59.9	69.9	117.8	147.7	304.0	796.1	1487.9	2440.3	2664.4	2511.7
77.5°	45.4	54.9	97.3	97.3	105.8	268.0	630.2	1331.0	1227.6	1022.2
80°	29.0	37.4	85.1	73.6	44.2	68.1	164.2	372.9	260.8	198.4
82.5°	17.0	24.5	70.9	48.7	24.7	25.2	46.4	79.4	67.6	52.7
85°	6.7	16.0	48.7	19.2	9.7	6.2	14.0	17.0	14.0	10.5
87.5°	0.0	3.7	8.5	0.0	0.7	0.5	1.0	1.2	1.2	1.0
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°
616.4	0°	616.4	616.4	616.4	616.4	616.4	616.4	616.4	616.4	616.4	616.4
616.9	2.5°	619.2	619.7	621.2	621.4	617.9	613.4	611.7	611.0	608.0	607.7
620.9	5°	626.7	628.9	626.7	620.2	604.7	583.0	566.5	553.0	540.8	537.1
634.7	7.5°	641.6	643.9	637.2	611.7	572.8	529.6	490.7	463.2	438.5	429.3
651.4	10°	663.1	666.1	644.9	593.5	524.6	455.2	389.3	342.9	306.7	292.0
674.1	12.5°	690.1	691.3	649.1	565.8	462.0	362.9	269.5	219.9	187.7	175.7
701.5	15°	719.8	718.0	649.6	528.1	376.6	256.6	175.9	144.5	131.5	127.5
729.0	17.5°	751.0	743.7	639.7	473.7	283.0	175.4	130.5	123.0	120.8	119.8
756.2	20°	781.7	765.4	621.4	402.6	203.2	131.0	118.5	116.3	115.1	114.6
783.7	22.5°	809.6	781.9	590.2	320.0	147.5	115.8	112.1	110.1	107.8	106.8
810.4	25°	836.8	791.4	546.3	242.8	118.0	108.3	105.3	101.6	98.6	97.3
839.1	27.5°	863.3	797.4	491.4	179.7	105.3	101.3	95.8	90.6	88.3	87.8
869.8	30°	891.5	799.4	429.0	134.0	97.6	92.6	84.6	78.6	77.4	77.6
911.2	32.5°	925.9	802.4	366.1	109.8	91.1	82.1	72.6	66.4	65.4	66.4
971.6	35°	967.1	808.4	305.5	101.1	85.4	71.4	61.1	55.9	54.9	55.7
1048.9	37.5°	1023.0	818.1	248.8	99.3	80.6	62.4	51.4	47.2	47.2	47.4
1143.8	40°	1097.4	844.0	198.2	98.1	78.1	55.7	43.4	41.7	42.4	42.9
1264.6	42.5°	1188.0	899.2	164.0	96.6	75.4	52.7	39.4	38.7	39.9	40.4
1409.3	45°	1289.5	969.1	152.0	94.1	72.9	54.7	37.7	36.7	38.2	38.4
1571.5	47.5°	1394.6	1037.5	150.5	91.3	70.4	57.7	37.2	34.9	36.7	36.9
1744.8	50°	1500.9	1082.1	152.0	87.1	66.4	57.7	37.4	33.2	34.7	35.4
1924.4	52.5°	1608.0	1102.6	151.0	77.9	59.4	54.2	37.4	31.7	33.2	33.7
2118.6	55°	1711.8	1098.6	135.8	64.1	50.4	47.9	36.4	30.4	31.4	31.7
2302.0	57.5°	1793.9	1043.0	107.6	49.9	40.9	39.9	33.2	29.0	29.7	29.4
2470.3	60°	1836.8	920.7	76.9	38.4	32.2	31.4	29.2	27.0	27.5	26.2
2612.8	62.5°	1837.3	758.9	51.4	30.4	25.7	25.0	25.0	24.2	23.7	21.2
2723.1	65°	1798.2	579.5	34.2	24.2	20.7	19.5	21.0	20.7	19.0	15.5
2756.8	67.5°	1709.3	379.8	26.0	19.0	16.0	15.2	16.7	17.5	16.2	13.0
2634.0	70°	1526.6	221.1	21.5	14.7	12.0	11.2	13.5	15.0	13.5	10.5
2251.4	72.5°	1268.1	119.3	17.5	11.0	8.2	7.5	10.7	12.2	10.7	7.7
1444.5	75°	822.8	63.9	13.5	7.2	4.2	4.7	8.0	9.0	7.5	5.0
424.0	77.5°	276.3	28.2	8.5	3.5	2.0	2.0	4.7	5.5	3.5	1.7
77.1	80°	61.6	11.7	3.5	1.5	0.7	0.7	1.0	1.0	0.5	0.0
23.7	82.5°	20.2	4.7	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
6.0	85°	7.7	1.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.0	87.5°	3.0	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>
616.4
608.2
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285.8
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127.5
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