

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: P945349

Luminaire Tested: **GALN-SB1B-827-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-827-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3743 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

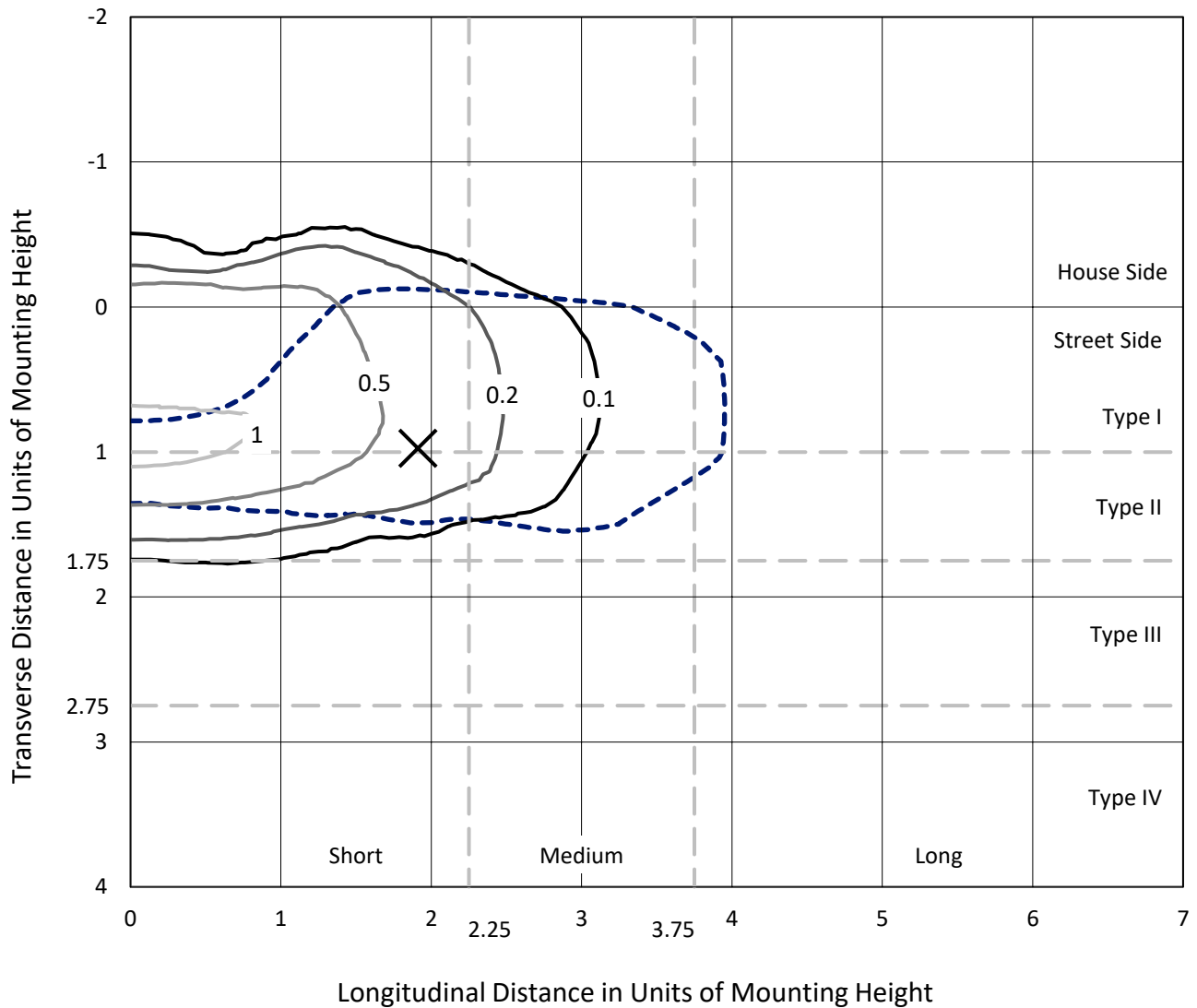
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

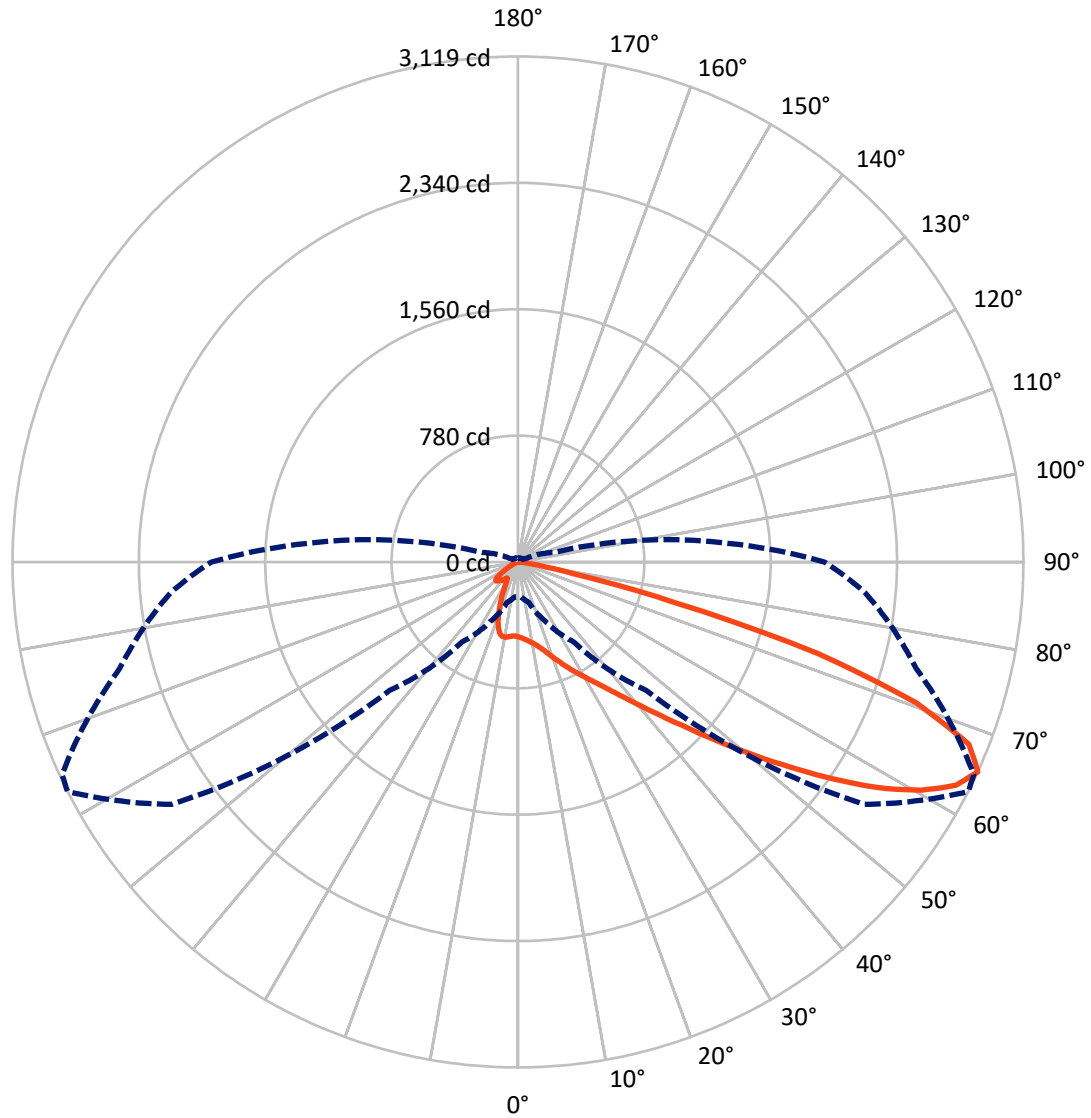
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	550.2	0.0	550.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	3192.8	0.0	3192.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	3743.0	0.0	3743.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.5	1.2
10°-20°	120.8	3.2
20°-30°	210.3	5.6
30°-40°	379.0	10.1
40°-50°	751.7	20.1
50°-60°	1024.0	27.4
60°-70°	817.3	21.8
70°-80°	369.8	9.9
80°-90°	26.6	0.7
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°	3743.0	100.0
0°-180°	3743.0	100.0

Coefficient of Utilization



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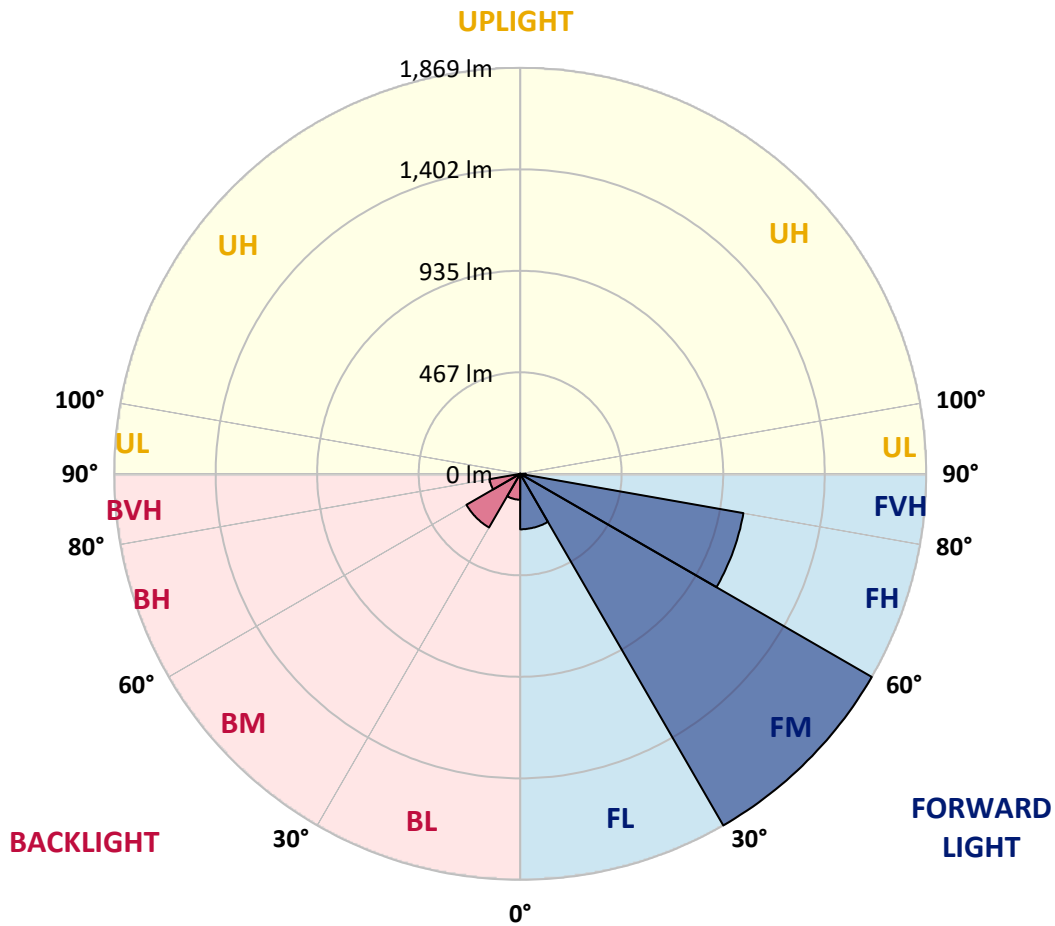
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	255.5	6.8			
FM (30°-60°)	1869.2	49.9			
FH (60°-80°)	1043.5	27.9			G1/1800
FVH (80°-90°)	24.6	0.7			G1/100
BL (0°-30°)	119.1	3.2	B1/500		
BM (30°-60°)	285.5	7.6	B1/1000		
BH (60°-80°)	143.6	3.8	B1/500		G1/500
BVH (80°-90°)	2.0	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0
2.5°	472.8	471.5	473.3	472.5	472.0	471.0	470.5	469.9	468.9	468.1
5°	474.1	473.3	475.1	476.6	478.2	479.7	480.5	481.5	480.5	478.4
7.5°	463.2	462.7	466.6	471.2	478.2	484.1	490.5	494.1	494.4	493.6
10°	462.5	461.2	465.0	470.7	479.7	490.3	501.6	509.3	510.4	513.7
12.5°	474.6	473.3	478.7	484.9	494.1	505.2	519.1	529.9	531.5	536.1
15°	494.9	493.1	499.3	507.3	519.1	531.7	546.4	556.2	557.5	563.2
17.5°	518.6	516.8	524.0	532.5	545.4	562.6	579.6	590.4	592.0	595.6
20°	549.0	546.7	552.3	560.1	573.7	594.3	614.7	630.1	629.8	629.8
22.5°	584.3	580.7	585.6	591.7	604.6	629.6	656.6	674.9	674.9	667.7
25°	622.1	618.5	623.9	629.6	640.9	669.2	700.9	723.6	724.6	712.2
27.5°	669.5	664.9	669.0	675.7	682.4	711.2	748.8	775.1	775.6	756.5
30°	760.7	747.5	734.7	727.4	730.5	759.1	799.3	828.4	831.0	804.7
32.5°	927.5	924.9	879.6	820.4	789.5	810.6	855.7	890.7	892.2	858.5
35°	1186.8	1183.7	1110.9	998.1	897.4	879.6	924.2	965.6	964.6	926.5
37.5°	1496.3	1493.5	1397.5	1246.6	1083.6	983.9	1012.5	1056.0	1062.4	1012.5
40°	1760.8	1750.2	1689.5	1544.0	1330.8	1157.0	1138.2	1167.0	1173.7	1114.5
42.5°	1961.1	1952.1	1921.2	1830.3	1630.0	1412.9	1286.2	1297.3	1304.8	1233.7
45°	2064.9	2062.8	2075.2	2066.7	1934.9	1727.1	1497.9	1451.8	1454.6	1365.8
47.5°	2079.6	2078.5	2134.9	2214.8	2197.0	2081.4	1769.5	1644.4	1634.4	1514.9
50°	1993.1	1991.0	2099.1	2248.8	2372.1	2379.1	2078.0	1861.5	1839.3	1669.1
52.5°	1716.8	1716.2	1893.9	2142.9	2433.6	2639.6	2382.9	2099.9	2062.8	1832.4
55°	1321.0	1330.5	1534.2	1828.5	2321.4	2765.0	2656.6	2364.6	2307.7	1996.7
57.5°	935.8	949.7	1151.0	1413.2	1973.2	2690.9	2841.8	2629.9	2568.6	2160.4
60°	502.6	515.0	716.6	1029.5	1468.0	2414.3	2939.4	2860.1	2802.1	2316.0
62.5°	299.5	303.6	387.0	664.6	992.9	1844.5	2897.9	3035.4	2987.8	2446.5
65°	215.0	215.8	257.8	405.8	602.8	1120.6	2607.2	3119.4	3104.7	2544.9
67.5°	181.0	180.5	198.0	269.6	410.7	561.4	1998.2	3000.7	3063.0	2607.2
70°	155.3	156.0	176.6	197.5	308.7	317.8	993.4	2612.6	2745.5	2623.7
72.5°	115.6	118.2	137.2	180.0	233.0	218.6	343.0	1937.2	2177.4	2472.0
75°	81.6	82.9	96.6	151.4	173.8	159.1	175.1	1001.4	1309.4	1895.2
77.5°	62.8	65.1	73.1	105.8	171.2	111.8	107.1	346.6	532.5	1144.8
80°	34.0	38.1	52.8	76.5	120.3	79.1	53.0	138.0	180.5	535.3
82.5°	17.5	19.6	36.8	55.1	68.5	69.0	26.3	57.4	74.4	165.3
85°	7.0	8.5	24.7	30.4	35.3	34.0	11.8	23.2	26.8	45.8
87.5°	1.5	2.6	9.0	7.0	6.7	7.2	2.8	5.4	5.2	5.4
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°
462.0	0°	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0
465.0	2.5°	464.8	463.8	460.9	457.8	454.2	452.2	450.9	450.6	448.8	447.5
475.3	5°	472.5	471.5	466.1	459.6	452.7	447.3	442.1	437.5	430.8	429.5
490.3	7.5°	488.0	485.1	476.4	467.6	454.5	438.8	419.7	397.8	378.3	372.3
510.1	10°	507.0	503.2	492.1	476.6	447.5	404.8	358.7	316.0	282.0	272.4
533.5	12.5°	528.6	525.3	510.6	482.0	418.4	340.9	270.4	217.3	184.4	176.1
558.5	15°	554.4	549.5	529.2	473.8	366.4	259.0	185.7	154.2	142.4	140.9
587.1	17.5°	581.7	573.7	545.6	444.2	296.4	184.1	143.4	134.4	129.3	127.7
615.9	20°	606.7	596.4	555.4	399.4	221.5	143.4	128.5	122.6	117.9	116.1
644.8	22.5°	631.7	617.0	555.4	338.4	166.1	127.2	117.9	112.5	107.1	104.8
675.7	25°	657.7	638.1	545.6	270.4	133.6	116.6	107.9	102.0	97.3	94.5
705.0	27.5°	682.9	655.9	523.2	206.0	119.0	107.4	98.6	93.0	88.6	86.5
737.0	30°	706.8	673.4	491.8	156.3	109.4	98.4	90.1	85.2	80.9	78.8
778.4	32.5°	739.3	695.5	458.4	128.2	101.2	89.9	82.4	77.8	73.9	72.4
832.2	35°	784.3	728.2	429.5	125.9	94.2	82.9	75.4	71.1	67.2	65.9
901.8	37.5°	848.2	781.0	414.3	141.4	88.6	76.7	69.8	65.1	61.5	60.5
990.1	40°	927.0	852.6	422.6	156.8	84.7	71.3	64.6	60.0	56.9	55.6
1091.5	42.5°	1020.5	940.9	468.1	168.7	82.1	66.7	59.7	54.6	52.5	52.0
1206.7	45°	1127.9	1038.0	537.9	181.3	78.0	62.3	54.8	51.0	49.4	49.2
1331.8	47.5°	1249.9	1144.6	618.8	197.0	73.9	58.2	51.0	48.4	47.1	46.6
1462.3	50°	1370.9	1252.0	701.9	205.7	70.6	54.3	47.9	45.8	44.8	44.5
1600.4	52.5°	1497.6	1362.4	769.2	197.5	67.7	51.2	45.3	43.8	42.7	42.5
1727.6	55°	1618.4	1451.8	780.7	167.6	62.1	48.2	42.5	41.7	40.4	40.4
1856.6	57.5°	1722.4	1496.6	698.9	123.1	56.4	43.5	39.7	38.9	37.9	37.6
1973.0	60°	1818.0	1483.7	539.5	82.9	50.2	38.9	36.1	35.5	34.5	33.2
2074.2	62.5°	1871.8	1427.1	369.0	54.1	44.0	34.0	31.9	31.7	29.4	26.8
2149.1	65°	1892.1	1310.7	230.2	39.4	36.8	29.1	27.6	27.0	23.7	20.9
2191.6	67.5°	1874.4	1119.1	116.1	31.2	29.1	24.2	22.7	22.7	20.3	17.8
2189.0	70°	1803.3	838.9	48.9	25.0	22.4	18.5	18.5	19.6	17.3	14.4
2075.5	72.5°	1649.0	564.4	26.0	19.1	16.7	13.1	15.2	16.0	13.6	10.8
1698.7	75°	1310.9	344.3	18.0	14.2	10.6	9.3	11.6	12.1	9.3	7.2
1164.7	77.5°	896.6	197.8	12.1	9.0	6.7	5.4	8.0	7.5	4.9	3.3
449.1	80°	393.7	82.4	7.0	4.1	2.6	2.1	2.8	2.1	1.5	1.0
61.5	82.5°	46.1	19.3	2.6	1.5	1.0	0.5	0.3	0.0	0.0	0.0
18.8	85°	9.5	2.3	1.3	0.5	0.3	0.0	0.0	0.0	0.0	0.0
3.3	87.5°	1.8	0.5	0.3	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>
462.0
448.8
429.0
369.5
268.8
173.8
139.3
126.9
115.1
103.5
93.5
86.5
79.1
72.4
65.9
60.3
55.4
52.0
48.9
46.6
44.5
42.5
40.2
37.3
33.0
26.3
20.6
17.5
14.2
10.8
7.0
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1.0
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