

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: P945454

Luminaire Tested: **GALN-SB1B-927-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945454
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-927-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 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: 2620 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

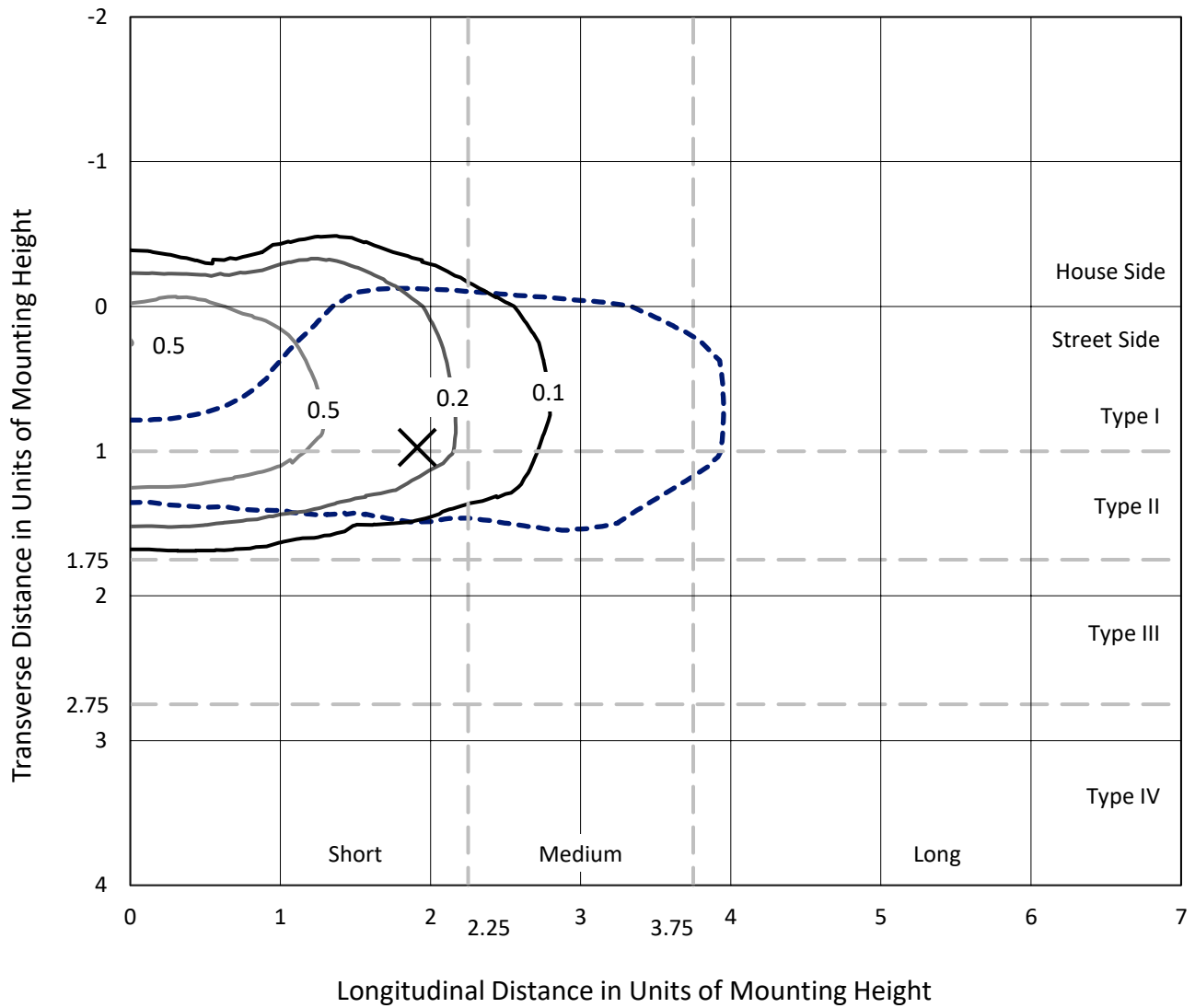
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

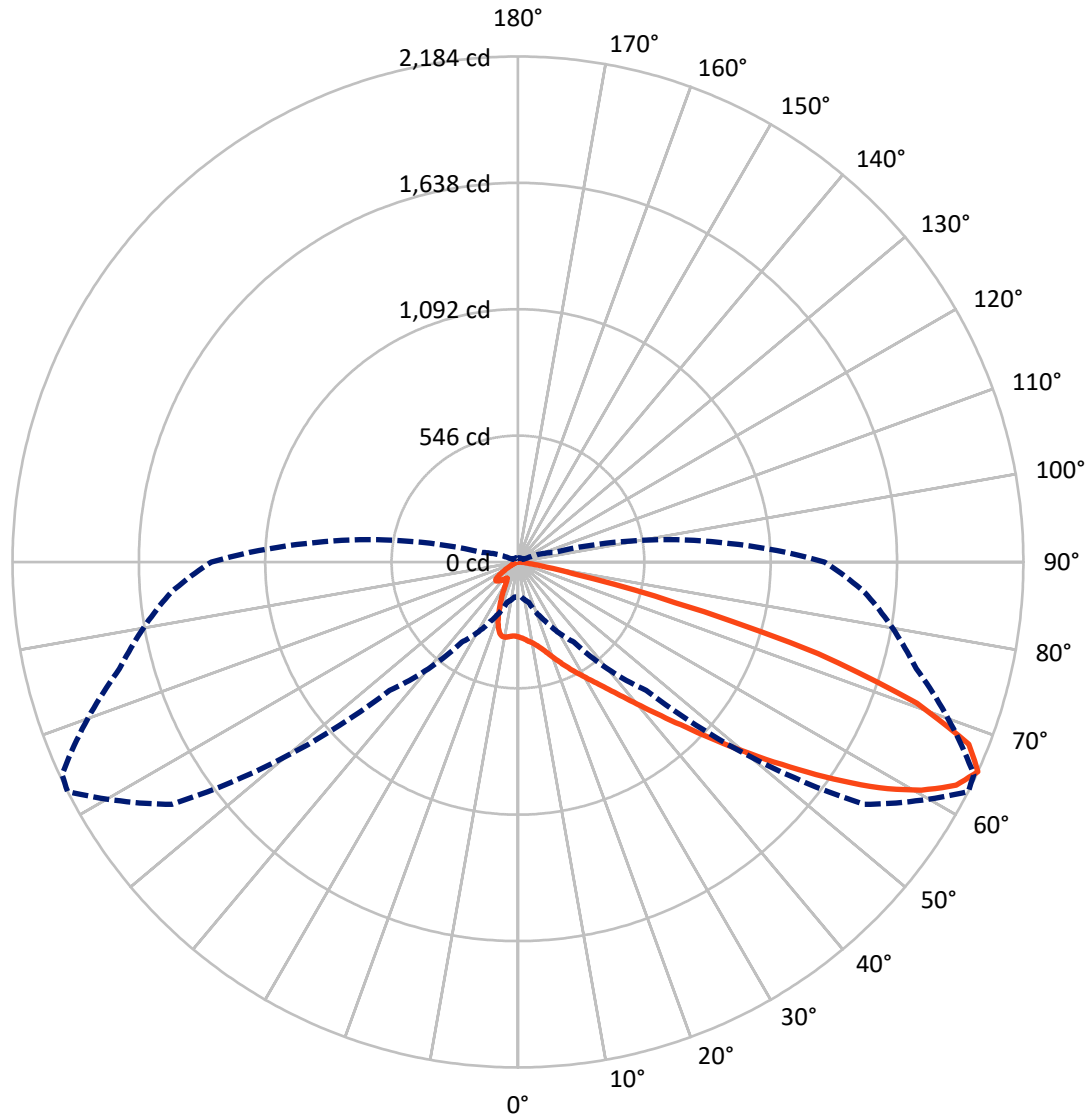
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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	385.1	0.0	385.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	2234.9	0.0	2234.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	2620.0	0.0	2620.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.5	1.2
10°-20°	84.5	3.2
20°-30°	147.2	5.6
30°-40°	265.3	10.1
40°-50°	526.2	20.1
50°-60°	716.7	27.4
60°-70°	572.1	21.8
70°-80°	258.9	9.9
80°-90°	18.6	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°	2620.0	100.0
0°-180°	2620.0	100.0

Coefficient of Utilization



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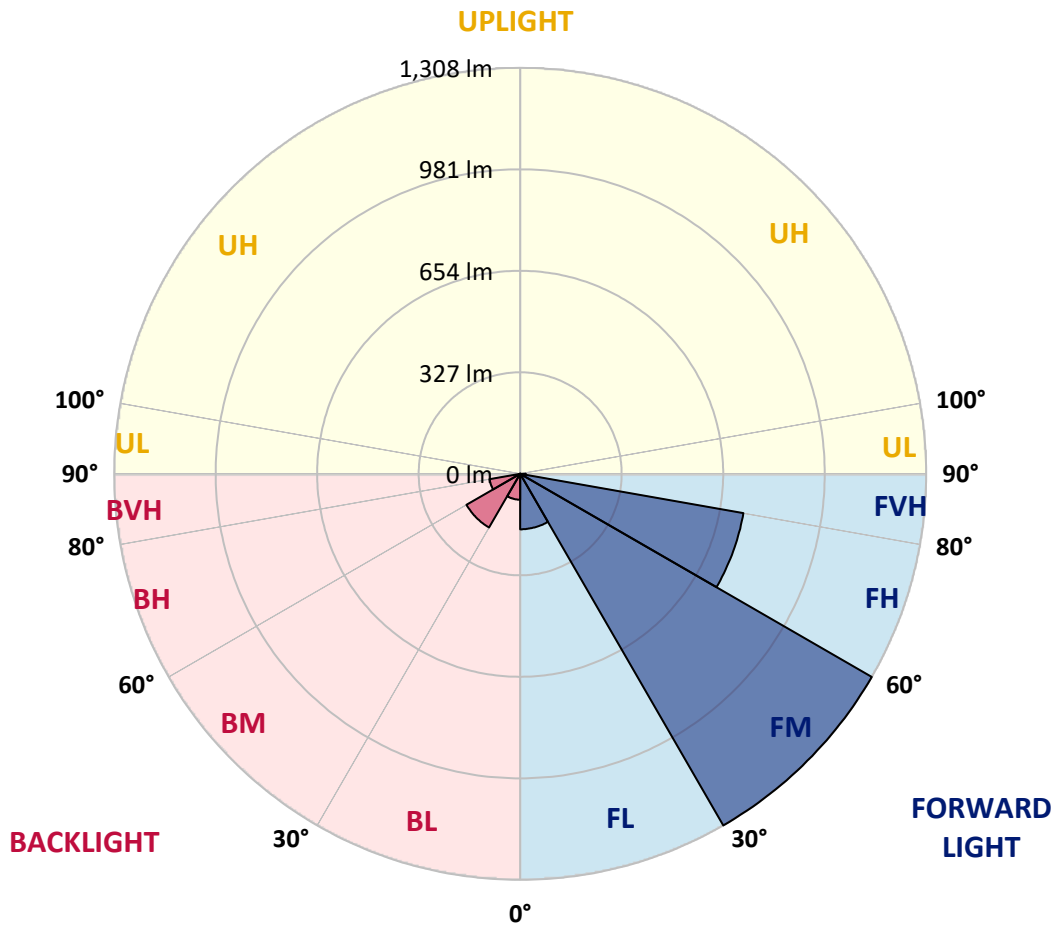
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	178.8	6.8			
FM (30°-60°)	1308.4	49.9			
FH (60°-80°)	730.4	27.9			G1/1800
FVH (80°-90°)	17.2	0.7			G1/100
BL (0°-30°)	83.3	3.2	B0/110		
BM (30°-60°)	199.8	7.6	B0/220		
BH (60°-80°)	100.5	3.8	B0/110		G0/110
BVH (80°-90°)	1.4	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	323.4	323.4	323.4	323.4	323.4	323.4	323.4	323.4	323.4	323.4
2.5°	330.9	330.0	331.3	330.7	330.4	329.7	329.3	328.9	328.2	327.7
5°	331.8	331.3	332.5	333.6	334.7	335.8	336.3	337.1	336.3	334.9
7.5°	324.3	323.9	326.6	329.8	334.7	338.9	343.4	345.9	346.1	345.5
10°	323.7	322.8	325.5	329.5	335.8	343.2	351.1	356.5	357.2	359.6
12.5°	332.2	331.3	335.1	339.4	345.9	353.6	363.4	370.9	372.0	375.3
15°	346.4	345.2	349.5	355.1	363.4	372.2	382.5	389.3	390.2	394.2
17.5°	363.0	361.7	366.8	372.7	381.8	393.8	405.7	413.3	414.4	416.9
20°	384.3	382.7	386.6	392.0	401.6	416.0	430.2	441.1	440.9	440.9
22.5°	409.0	406.4	409.9	414.2	423.2	440.7	459.6	472.4	472.4	467.4
25°	435.5	432.9	436.7	440.7	448.6	468.5	490.6	506.5	507.2	498.6
27.5°	468.6	465.4	468.3	473.0	477.6	497.8	524.1	542.5	542.9	529.6
30°	532.4	523.2	514.2	509.2	511.4	531.4	559.5	579.8	581.6	563.3
32.5°	649.2	647.4	615.7	574.3	552.6	567.4	599.0	623.5	624.5	600.9
35°	830.7	828.6	777.6	698.6	628.1	615.7	646.9	675.9	675.2	648.5
37.5°	1047.4	1045.4	978.2	872.6	758.5	688.7	708.7	739.2	743.7	708.7
40°	1232.5	1225.1	1182.6	1080.7	931.5	809.8	796.7	816.9	821.6	780.1
42.5°	1372.7	1366.4	1344.8	1281.2	1140.9	989.0	900.3	908.1	913.3	863.5
45°	1445.4	1443.9	1452.6	1446.6	1354.4	1208.9	1048.5	1016.2	1018.2	956.0
47.5°	1455.6	1454.9	1494.4	1550.3	1537.8	1456.9	1238.6	1151.0	1144.0	1060.4
50°	1395.1	1393.6	1469.3	1574.1	1660.4	1665.3	1454.6	1303.0	1287.5	1168.3
52.5°	1201.7	1201.3	1325.7	1500.0	1703.5	1847.7	1668.0	1469.9	1443.9	1282.6
55°	924.7	931.3	1073.9	1279.9	1624.9	1935.5	1859.6	1655.2	1615.3	1397.6
57.5°	655.0	664.7	805.7	989.2	1381.2	1883.5	1989.2	1840.8	1797.9	1512.2
60°	351.8	360.5	501.6	720.6	1027.6	1690.0	2057.5	2002.0	1961.4	1621.1
62.5°	209.6	212.5	270.9	465.2	695.0	1291.1	2028.5	2124.7	2091.4	1712.5
65°	150.5	151.0	180.4	284.1	422.0	784.4	1825.0	2183.5	2173.2	1781.4
67.5°	126.7	126.4	138.6	188.7	287.5	392.9	1398.7	2100.4	2144.0	1825.0
70°	108.7	109.2	123.6	138.2	216.1	222.4	695.4	1828.8	1921.8	1836.5
72.5°	80.9	82.7	96.1	126.0	163.1	153.0	240.1	1356.0	1524.1	1730.3
75°	57.1	58.0	67.6	106.0	121.7	111.4	122.6	701.0	916.5	1326.6
77.5°	44.0	45.6	51.2	74.1	119.9	78.2	75.0	242.6	372.7	801.4
80°	23.8	26.7	36.9	53.5	84.2	55.3	37.1	96.6	126.4	374.7
82.5°	12.3	13.7	25.8	38.6	47.9	48.3	18.4	40.2	52.1	115.7
85°	4.9	5.9	17.3	21.3	24.7	23.8	8.3	16.2	18.7	32.1
87.5°	1.1	1.8	6.3	4.9	4.7	5.0	2.0	3.8	3.6	3.8
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°
323.4	0°	323.4	323.4	323.4	323.4	323.4	323.4	323.4	323.4	323.4	323.4
325.5	2.5°	325.3	324.6	322.6	320.5	318.0	316.5	315.6	315.4	314.2	313.3
332.7	5°	330.7	330.0	326.2	321.7	316.9	313.1	309.5	306.2	301.5	300.6
343.2	7.5°	341.6	339.6	333.5	327.3	318.1	307.1	293.8	278.5	264.8	260.6
357.1	10°	354.9	352.2	344.4	333.6	313.3	283.3	251.1	221.2	197.4	190.7
373.5	12.5°	370.0	367.7	357.4	337.4	292.9	238.6	189.3	152.1	129.1	123.3
390.9	15°	388.1	384.6	370.4	331.6	256.5	181.3	130.0	108.0	99.7	98.6
411.0	17.5°	407.2	401.6	381.9	310.9	207.5	128.9	100.4	94.1	90.5	89.4
431.1	20°	424.7	417.4	388.8	279.6	155.0	100.4	89.9	85.8	82.6	81.3
451.3	22.5°	442.1	431.9	388.8	236.8	116.3	89.0	82.6	78.8	75.0	73.4
473.0	25°	460.3	446.6	381.9	189.3	93.5	81.7	75.5	71.4	68.1	66.1
493.5	27.5°	478.0	459.1	366.3	144.2	83.3	75.2	69.0	65.1	62.0	60.6
515.9	30°	494.8	471.3	344.3	109.4	76.6	68.9	63.1	59.7	56.6	55.2
544.9	32.5°	517.5	486.8	320.8	89.8	70.8	62.9	57.7	54.4	51.7	50.6
582.5	35°	549.0	509.7	300.6	88.1	66.0	58.0	52.8	49.7	47.0	46.1
631.2	37.5°	593.7	546.7	290.0	99.0	62.0	53.7	48.8	45.6	43.1	42.4
693.0	40°	648.9	596.8	295.8	109.8	59.3	49.9	45.2	42.0	39.8	38.9
764.1	42.5°	714.3	658.6	327.7	118.1	57.5	46.7	41.8	38.2	36.8	36.4
844.6	45°	789.5	726.6	376.5	126.9	54.6	43.6	38.4	35.7	34.6	34.4
932.2	47.5°	874.9	801.2	433.1	137.9	51.7	40.7	35.7	33.9	33.0	32.6
1023.6	50°	959.6	876.3	491.3	144.0	49.4	38.0	33.5	32.1	31.4	31.2
1120.2	52.5°	1048.3	953.7	538.4	138.2	47.4	35.9	31.7	30.6	29.9	29.7
1209.3	55°	1132.8	1016.2	546.5	117.3	43.4	33.7	29.7	29.2	28.3	28.3
1299.6	57.5°	1205.7	1047.6	489.2	86.2	39.5	30.5	27.8	27.2	26.5	26.3
1381.0	60°	1272.5	1038.6	377.6	58.0	35.1	27.2	25.2	24.9	24.2	23.3
1451.9	62.5°	1310.2	998.9	258.3	37.9	30.8	23.8	22.4	22.2	20.5	18.7
1504.3	65°	1324.4	917.4	161.1	27.6	25.8	20.4	19.3	18.9	16.6	14.6
1534.1	67.5°	1312.0	783.3	81.3	21.8	20.4	16.9	15.9	15.9	14.2	12.4
1532.3	70°	1262.2	587.2	34.2	17.5	15.7	13.0	13.0	13.7	12.1	10.1
1452.8	72.5°	1154.3	395.1	18.2	13.3	11.7	9.2	10.6	11.2	9.6	7.6
1189.1	75°	917.6	241.0	12.6	9.9	7.4	6.5	8.1	8.5	6.5	5.0
815.2	77.5°	627.6	138.4	8.5	6.3	4.7	3.8	5.6	5.2	3.4	2.3
314.3	80°	275.6	57.7	4.9	2.9	1.8	1.4	2.0	1.4	1.1	0.7
43.1	82.5°	32.3	13.5	1.8	1.1	0.7	0.4	0.2	0.0	0.0	0.0
13.2	85°	6.7	1.6	0.9	0.4	0.2	0.0	0.0	0.0	0.0	0.0
2.3	87.5°	1.3	0.4	0.2	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>
323.4
314.2
300.3
258.6
188.2
121.7
97.5
88.9
80.6
72.5
65.4
60.6
55.3
50.6
46.1
42.2
38.8
36.4
34.2
32.6
31.2
29.7
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