

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: P945015

Luminaire Tested: **GALN-SB1A-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945015
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-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 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: 3357 lumens
Efficiency: N/A
Efficacy: 108.6 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

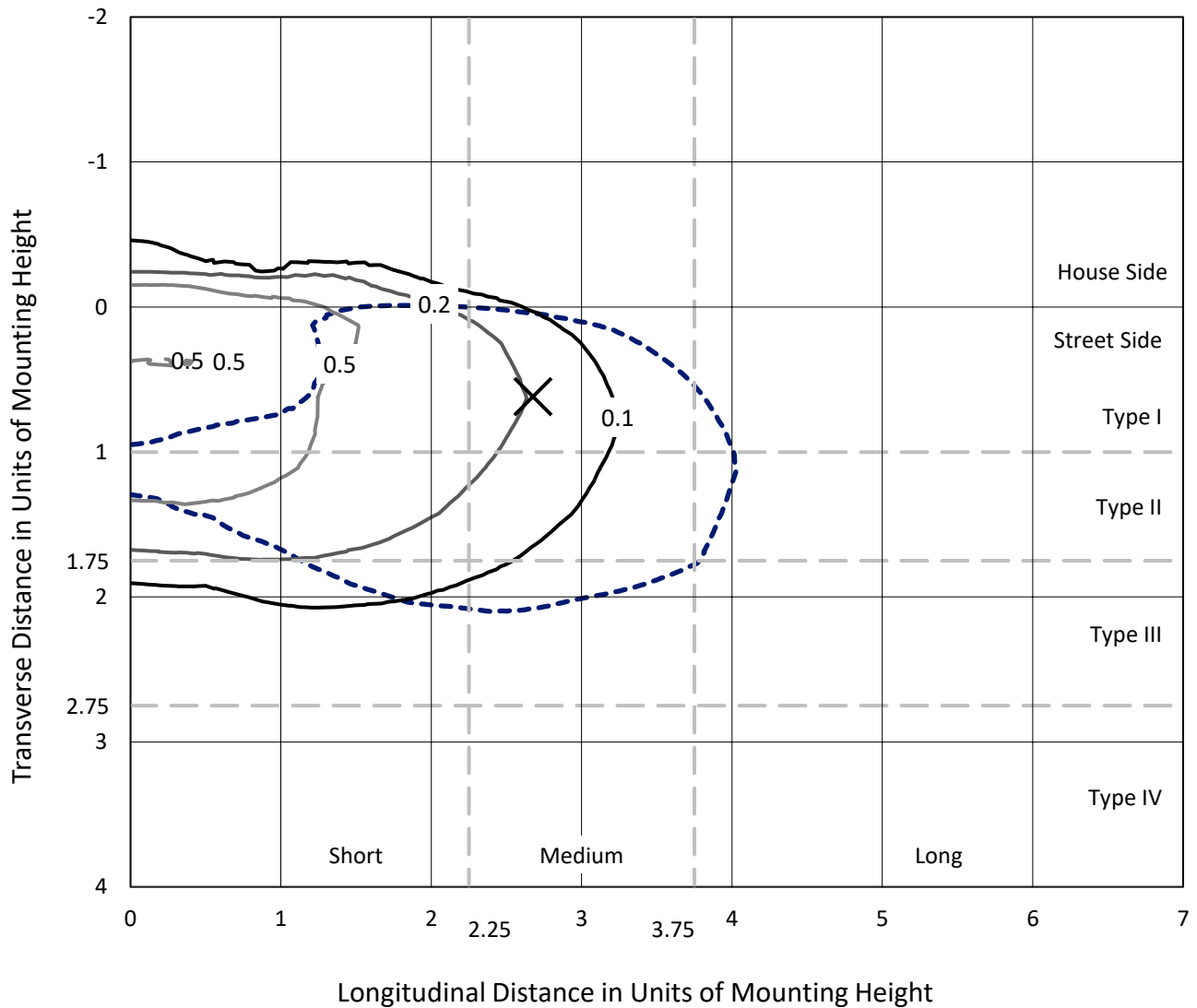
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

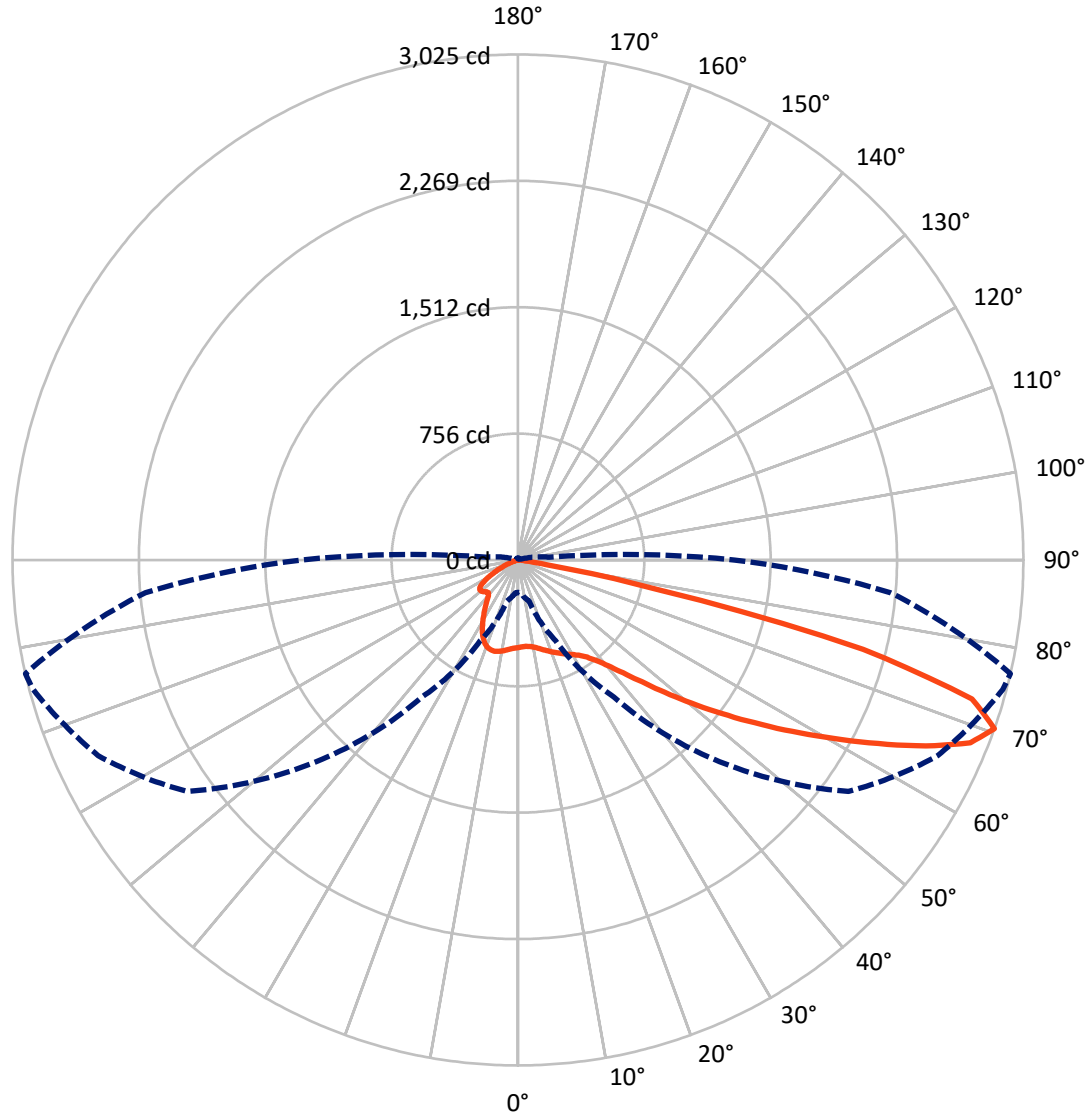
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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	353.9	0.0	353.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	3003.1	0.0	3003.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	3357.0	0.0	3357.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	1.3
10°-20°	107.1	3.2
20°-30°	165.7	4.9
30°-40°	300.7	9.0
40°-50°	567.6	16.9
50°-60°	820.1	24.4
60°-70°	872.9	26.0
70°-80°	462.6	13.8
80°-90°	15.2	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°	3357.0	100.0
0°-180°	3357.0	100.0

Coefficient of Utilization



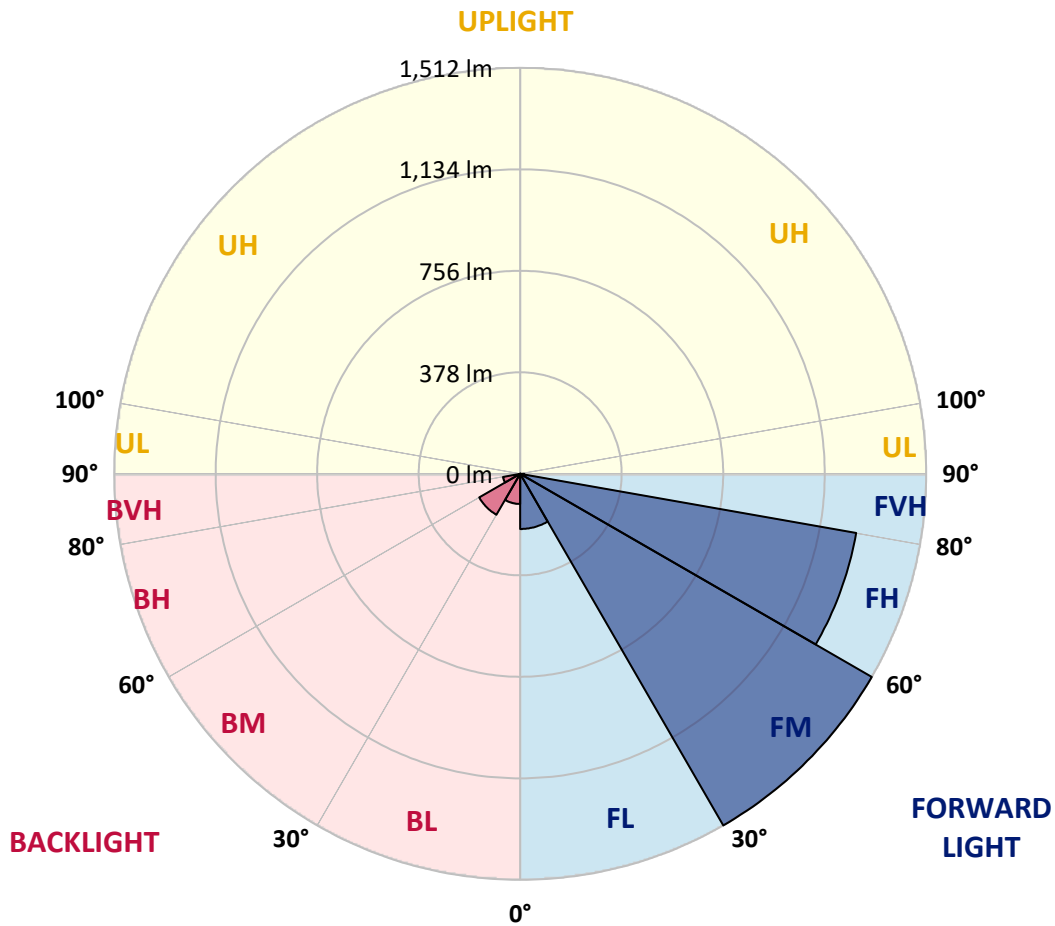
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	205.5	6.1			
FM (30°-60°)	1512.1	45.0			
FH (60°-80°)	1270.7	37.9			G1/1800
FVH (80°-90°)	14.8	0.4			G1/100
BL (0°-30°)	112.4	3.3	B1/500		
BM (30°-60°)	176.2	5.2	B0/220		
BH (60°-80°)	64.9	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: B1-U0-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	523.6	523.6	523.6	523.6	523.6	523.6	523.6	523.6	523.6	523.6
2.5°	491.6	496.1	495.4	498.4	499.5	503.7	507.9	513.7	520.0	519.8
5°	463.8	468.3	469.4	473.4	478.5	485.0	493.7	505.2	517.1	519.0
7.5°	431.0	435.7	438.4	446.5	455.8	469.4	483.6	500.3	520.0	522.8
10°	398.1	402.4	406.0	417.4	432.3	452.4	475.5	499.7	526.2	530.2
12.5°	377.8	381.8	385.8	395.8	414.2	438.8	470.2	502.6	536.4	542.1
15°	370.6	374.2	377.4	386.3	403.4	431.4	469.1	508.8	549.3	556.9
17.5°	371.6	373.5	375.7	382.4	399.2	428.0	471.1	519.4	564.5	571.3
20°	377.8	378.8	379.0	383.7	398.6	427.6	474.9	529.6	579.0	588.1
22.5°	385.6	386.0	385.6	388.8	402.6	430.8	480.0	541.9	595.1	603.6
25°	422.3	414.2	404.1	397.9	409.4	436.9	487.6	558.4	612.7	620.9
27.5°	536.1	513.0	476.6	435.7	423.4	445.8	498.2	575.1	630.5	637.9
30°	721.0	690.7	628.8	536.6	468.3	464.5	512.0	591.9	649.3	657.4
32.5°	906.3	898.9	827.4	699.8	569.4	506.0	534.9	614.6	674.4	680.7
35°	1093.7	1078.6	1020.1	894.0	725.2	590.6	573.0	644.3	707.2	714.4
37.5°	1237.2	1228.1	1191.8	1088.0	910.1	721.2	638.3	690.3	754.9	763.0
40°	1364.0	1359.7	1347.4	1279.0	1116.8	892.1	739.9	761.5	821.1	830.6
42.5°	1463.6	1473.6	1480.6	1461.5	1329.9	1087.1	876.4	861.6	913.3	923.0
45°	1565.6	1569.0	1597.2	1624.7	1541.4	1291.1	1030.3	978.8	1028.0	1040.1
47.5°	1631.1	1644.7	1694.3	1742.8	1719.3	1493.3	1195.7	1117.2	1160.9	1183.6
50°	1636.0	1661.6	1729.9	1814.5	1848.8	1685.8	1375.4	1274.9	1321.4	1346.4
52.5°	1554.8	1594.6	1700.4	1824.2	1918.8	1848.8	1561.4	1432.7	1492.2	1524.9
55°	1192.1	1244.2	1589.5	1771.2	1921.5	1972.4	1742.4	1597.0	1682.6	1719.5
57.5°	1038.6	1064.9	1249.7	1679.2	1870.4	2022.2	1906.1	1753.4	1889.7	1935.5
60°	864.1	898.7	1048.1	1528.7	1801.1	2027.1	2050.6	1955.2	2114.2	2165.8
62.5°	587.2	624.8	773.4	1270.1	1706.4	2024.8	2169.1	2163.0	2363.8	2419.1
65°	363.8	387.3	485.3	1037.1	1573.9	2027.3	2293.2	2415.3	2627.1	2683.2
67.5°	287.5	298.3	349.4	796.3	1345.5	1970.1	2417.0	2652.5	2874.9	2919.4
70°	193.1	199.7	254.2	533.8	1001.0	1705.9	2414.6	2771.6	3002.5	3024.8
72.5°	101.8	106.8	148.6	247.2	604.6	1212.6	2035.4	2629.2	2875.5	2842.0
75°	50.9	59.4	100.1	125.5	258.2	676.3	1263.9	2072.9	2263.3	2133.5
77.5°	38.6	46.6	82.7	82.7	89.9	227.7	535.3	1130.6	1042.8	868.3
80°	24.6	31.8	72.3	62.5	37.5	57.9	139.5	316.7	221.5	168.5
82.5°	14.4	20.8	60.2	41.3	21.0	21.4	39.4	67.4	57.5	44.7
85°	5.7	13.6	41.3	16.3	8.3	5.3	11.9	14.4	11.9	8.9
87.5°	0.0	3.2	7.2	0.0	0.6	0.4	0.8	1.1	1.1	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°
523.6	0°	523.6	523.6	523.6	523.6	523.6	523.6	523.6	523.6	523.6	523.6
524.1	2.5°	526.0	526.4	527.7	527.9	524.9	521.1	519.6	519.0	516.4	516.2
527.4	5°	532.3	534.2	532.3	526.8	513.7	495.2	481.2	469.8	459.4	456.2
539.1	7.5°	545.0	547.0	541.2	519.6	486.5	449.9	416.8	393.5	372.5	364.6
553.3	10°	563.3	565.8	547.8	504.1	445.6	386.7	330.7	291.3	260.5	248.0
572.6	12.5°	586.2	587.2	551.4	480.6	392.4	308.2	229.0	186.8	159.4	149.2
595.9	15°	611.4	609.9	551.8	448.6	319.9	217.9	149.5	122.7	111.7	108.3
619.2	17.5°	637.9	631.7	543.3	402.4	240.4	149.0	110.9	104.5	102.6	101.8
642.3	20°	664.0	650.2	527.9	342.0	172.6	111.3	100.7	98.8	97.7	97.3
665.7	22.5°	687.7	664.2	501.4	271.8	125.3	98.4	95.2	93.5	91.6	90.7
688.4	25°	710.8	672.2	464.1	206.3	100.3	92.0	89.5	86.3	83.7	82.7
712.7	27.5°	733.3	677.3	417.4	152.6	89.5	86.1	81.4	77.0	75.0	74.6
738.8	30°	757.3	679.0	364.4	113.8	82.9	78.7	71.9	66.8	65.7	65.9
774.0	32.5°	786.5	681.6	311.0	93.3	77.4	69.7	61.7	56.4	55.5	56.4
825.3	35°	821.5	686.7	259.5	85.9	72.5	60.6	51.9	47.5	46.6	47.3
891.0	37.5°	869.0	694.9	211.4	84.4	68.5	53.0	43.7	40.1	40.1	40.3
971.6	40°	932.1	717.0	168.3	83.3	66.4	47.3	36.9	35.4	36.0	36.5
1074.2	42.5°	1009.1	763.8	139.3	82.0	64.0	44.7	33.5	32.9	33.9	34.3
1197.1	45°	1095.4	823.2	129.1	79.9	61.9	46.4	32.0	31.2	32.4	32.6
1334.9	47.5°	1184.6	881.3	127.8	77.6	59.8	49.0	31.6	29.7	31.2	31.4
1482.1	50°	1274.9	919.2	129.1	74.0	56.4	49.0	31.8	28.2	29.5	30.1
1634.7	52.5°	1365.9	936.6	128.3	66.1	50.5	46.0	31.8	26.9	28.2	28.6
1799.6	55°	1454.1	933.2	115.3	54.5	42.8	40.7	31.0	25.9	26.7	26.9
1955.5	57.5°	1523.8	885.9	91.4	42.4	34.8	33.9	28.2	24.6	25.2	25.0
2098.3	60°	1560.3	782.1	65.3	32.6	27.3	26.7	24.8	22.9	23.3	22.3
2219.4	62.5°	1560.7	644.7	43.7	25.9	21.8	21.2	21.2	20.6	20.1	18.0
2313.1	65°	1527.4	492.3	29.0	20.6	17.6	16.5	17.8	17.6	16.1	13.1
2341.7	67.5°	1452.0	322.7	22.0	16.1	13.6	12.9	14.2	14.8	13.8	11.0
2237.4	70°	1296.8	187.8	18.2	12.5	10.2	9.5	11.4	12.7	11.4	8.9
1912.4	72.5°	1077.2	101.3	14.8	9.3	7.0	6.4	9.1	10.4	9.1	6.6
1227.0	75°	699.0	54.3	11.4	6.1	3.6	4.0	6.8	7.6	6.4	4.2
360.2	77.5°	234.7	24.0	7.2	3.0	1.7	1.7	4.0	4.7	3.0	1.5
65.5	80°	52.4	10.0	3.0	1.3	0.6	0.6	0.8	0.8	0.4	0.0
20.1	82.5°	17.2	4.0	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0
5.1	85°	6.6	1.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.7	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

<u>180°</u>
523.6
516.6
454.3
361.5
242.7
146.1
108.3
101.5
96.9
90.5
82.3
74.2
65.9
56.2
47.1
40.1
36.5
34.3
32.9
31.6
30.3
28.6
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