

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: P938804

Luminaire Tested: **GALN-SB1A-835-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3039 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

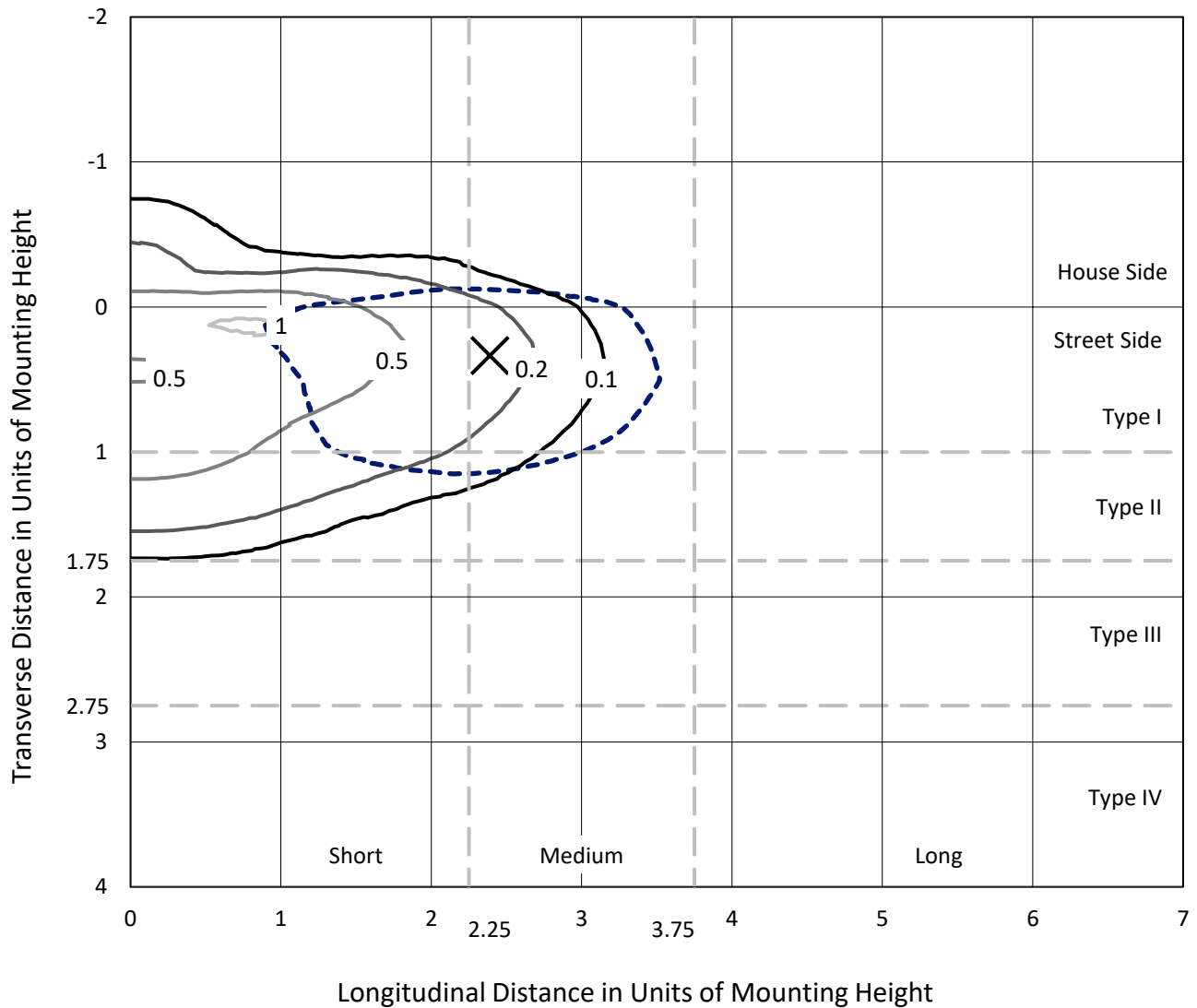
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

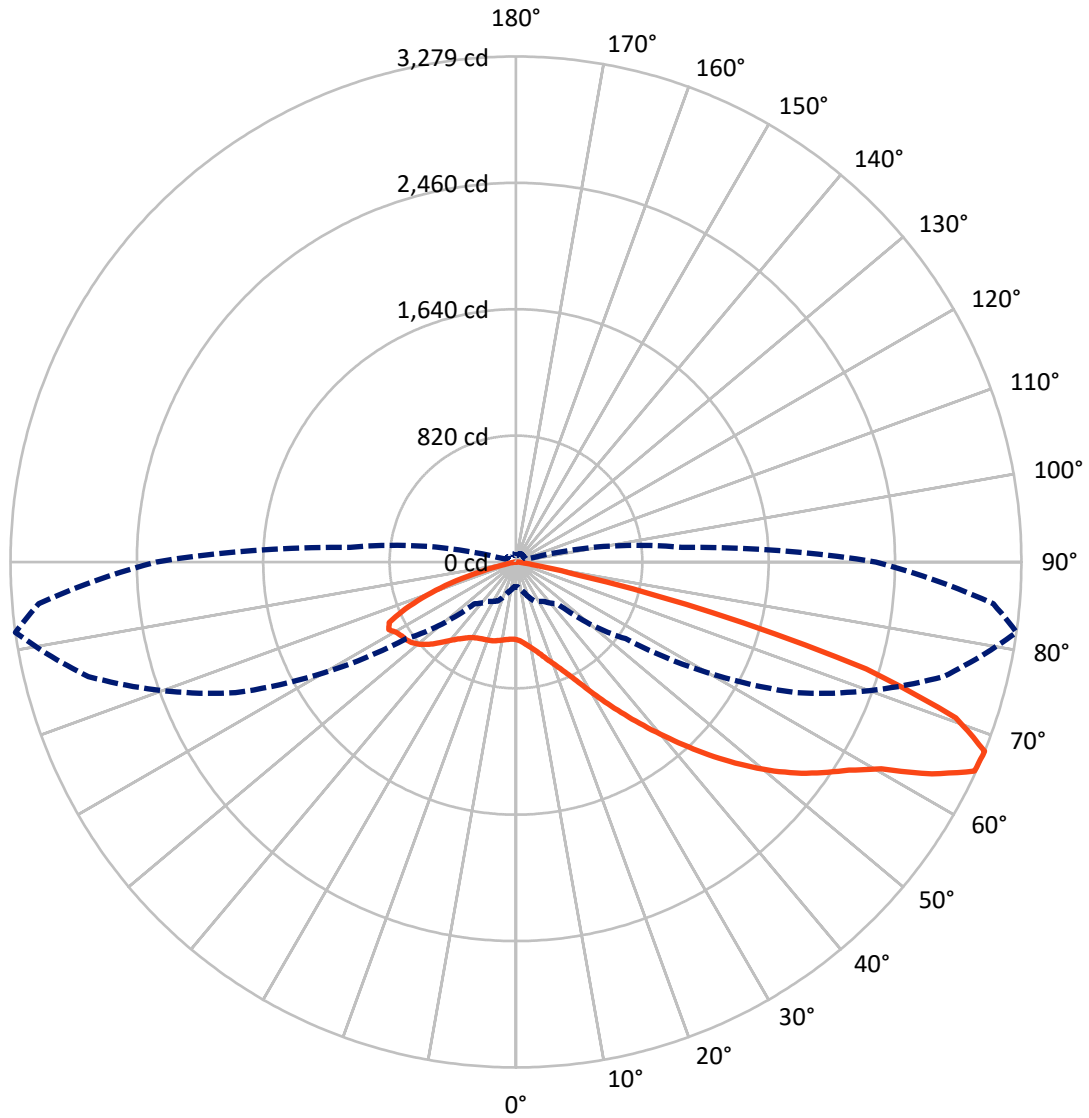
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	550.5	0.0	550.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	2488.5	0.0	2488.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	3039.0	0.0	3039.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.9	1.5
10°-20°	116.6	3.8
20°-30°	186.7	6.1
30°-40°	330.1	10.9
40°-50°	578.4	19.0
50°-60°	771.4	25.4
60°-70°	718.2	23.6
70°-80°	275.6	9.1
80°-90°	17.1	0.6
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°	3039.0	100.0
0°-180°	3039.0	100.0

Coefficient of Utilization



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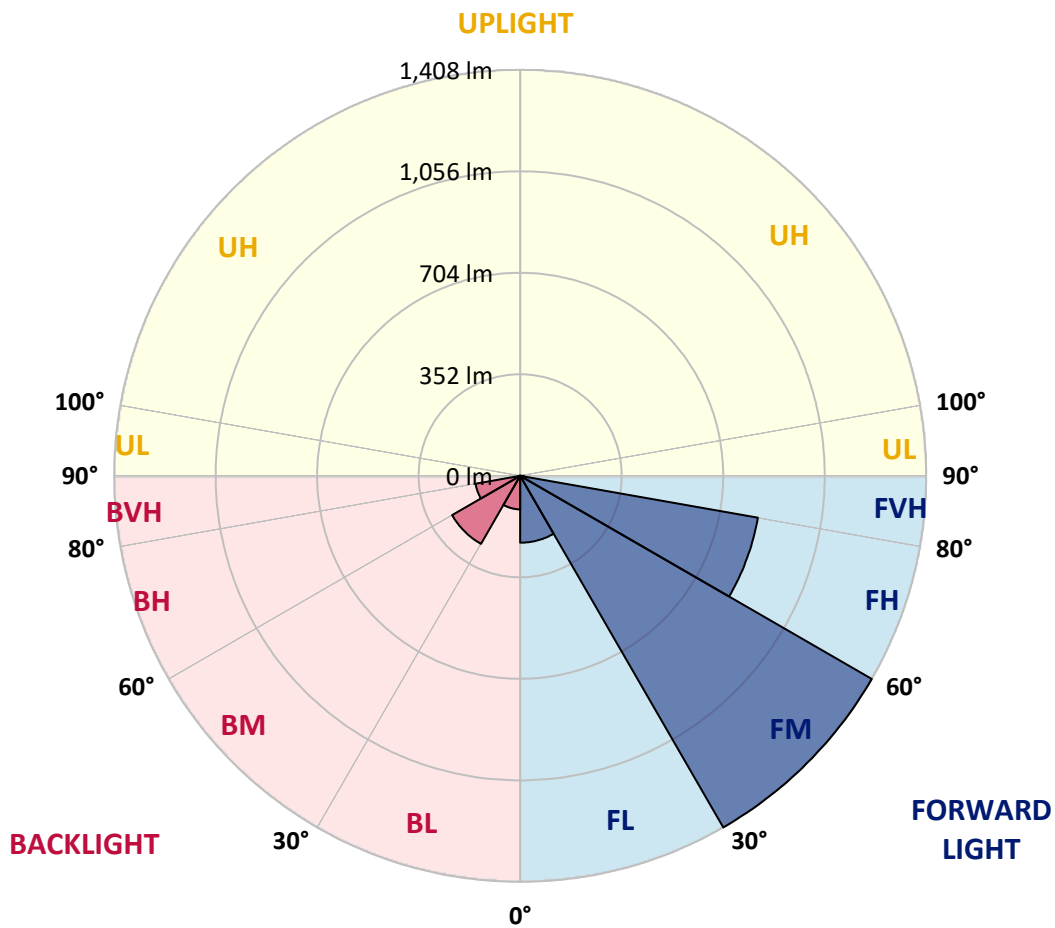
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	231.8	7.6			
FM (30°-60°)	1407.5	46.3			
FH (60°-80°)	836.7	27.5			G1/1800
FVH (80°-90°)	12.4	0.4			G1/100
BL (0°-30°)	116.3	3.8	B1/500		
BM (30°-60°)	272.4	9.0	B1/1000		
BH (60°-80°)	157.1	5.2	B1/500		G1/500
BVH (80°-90°)	4.7	0.2			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	503.5	503.5	503.5	503.5	503.5	503.5	503.5	503.5	503.5	503.5
2.5°	532.1	535.2	533.4	532.6	531.0	528.8	527.1	521.6	515.9	512.2
5°	542.8	545.9	545.7	546.6	547.7	548.3	547.9	541.7	533.7	527.3
7.5°	533.7	537.2	540.0	544.4	552.0	560.1	564.1	562.8	554.4	545.7
10°	507.6	511.3	518.1	528.4	544.6	562.1	576.8	583.5	578.3	568.7
12.5°	459.9	463.6	477.0	499.3	526.4	556.8	584.9	603.0	604.3	594.7
15°	406.3	410.0	424.3	452.3	493.6	542.4	589.2	623.6	635.2	626.9
17.5°	373.1	376.3	387.1	409.6	452.7	513.5	587.7	645.5	671.9	665.4
20°	363.0	365.8	370.9	386.6	422.5	483.5	577.6	666.0	711.5	707.8
22.5°	373.7	376.3	377.9	384.9	407.4	463.9	564.9	687.0	757.5	757.9
25°	398.4	401.1	399.3	403.7	413.5	457.7	560.1	711.8	815.2	820.1
27.5°	439.1	439.4	435.2	435.0	436.5	466.9	565.2	738.2	888.1	897.1
30°	520.7	517.5	501.5	484.2	476.3	494.5	579.2	769.5	974.1	990.1
32.5°	646.6	641.7	612.4	571.1	529.5	538.9	604.3	805.2	1067.7	1096.6
35°	783.1	781.8	751.1	689.7	617.0	602.1	645.2	852.0	1169.9	1215.9
37.5°	910.0	909.3	891.8	819.4	731.0	690.3	710.9	913.3	1279.3	1345.8
40°	1026.0	1027.9	1010.4	945.7	856.6	803.4	800.2	989.0	1401.0	1487.4
42.5°	1126.2	1128.4	1110.6	1062.7	980.7	928.6	909.8	1081.7	1519.8	1639.5
45°	1194.2	1207.8	1205.2	1166.9	1108.0	1054.0	1041.5	1198.2	1655.2	1800.7
47.5°	1213.5	1225.9	1245.6	1250.9	1215.0	1161.8	1176.7	1338.4	1792.2	1962.2
50°	1166.0	1177.6	1218.5	1273.0	1297.9	1281.5	1308.2	1488.7	1932.4	2123.2
52.5°	1072.3	1084.2	1135.8	1222.0	1323.7	1375.4	1440.1	1636.8	2068.3	2275.7
55°	936.9	949.4	1015.7	1113.3	1274.5	1414.1	1550.2	1784.8	2192.8	2412.9
57.5°	752.7	761.9	830.8	967.3	1150.7	1375.6	1631.4	1946.2	2310.1	2547.7
60°	490.6	498.6	578.7	731.0	945.4	1246.9	1647.6	2126.3	2465.9	2723.0
62.5°	326.2	331.7	379.2	491.0	665.8	999.9	1552.8	2270.1	2694.3	3028.0
65°	223.8	229.3	276.8	354.7	430.2	661.4	1280.4	2251.0	2901.3	3270.2
67.5°	159.7	164.3	204.6	278.1	311.4	384.2	868.0	2007.7	2871.5	3279.4
70°	114.4	117.1	150.3	216.6	247.5	230.8	482.7	1535.5	2514.2	3028.2
72.5°	80.1	81.0	104.4	165.0	199.3	168.5	229.7	1023.8	1901.6	2376.8
75°	54.3	55.4	70.2	121.0	159.9	128.7	121.7	549.0	1116.3	1315.6
77.5°	33.3	33.7	45.3	82.7	119.7	98.0	78.3	232.6	431.9	424.0
80°	18.8	18.8	28.9	51.4	81.6	63.2	54.9	98.9	136.8	120.1
82.5°	10.5	10.7	21.0	31.9	54.0	37.4	30.2	45.7	59.1	52.3
85°	4.4	4.8	12.9	15.1	25.8	18.6	12.3	19.3	21.9	19.5
87.5°	0.4	0.7	3.9	2.8	3.1	3.7	1.8	3.7	3.1	3.1
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°
503.5	0°	503.5	503.5	503.5	503.5	503.5	503.5	503.5	503.5	503.5	503.5
510.9	2.5°	506.7	503.5	495.1	485.5	472.8	466.7	458.4	452.7	447.9	448.3
523.6	5°	516.6	508.3	489.7	466.5	437.6	417.0	395.2	380.1	367.8	365.2
541.1	7.5°	530.2	517.0	484.4	442.6	393.8	356.9	323.8	302.6	287.5	282.7
562.3	10°	547.7	528.6	477.6	412.7	342.4	295.4	259.9	243.3	233.0	229.5
587.3	12.5°	568.0	542.0	468.7	376.1	289.5	244.2	221.6	213.3	210.0	209.0
617.9	15°	593.6	558.6	455.1	332.8	244.6	212.9	203.3	202.2	202.6	202.2
654.7	17.5°	624.0	576.8	433.0	288.2	214.4	196.9	193.4	194.3	195.4	195.2
695.8	20°	657.3	594.7	404.8	248.6	193.9	185.5	183.6	184.4	185.3	184.9
743.3	22.5°	695.1	614.0	373.5	217.7	180.1	175.0	172.9	173.1	173.1	172.2
803.4	25°	740.4	635.2	340.7	195.8	169.6	165.6	163.0	162.1	160.8	158.2
876.5	27.5°	794.5	657.7	309.2	180.5	161.3	157.5	154.5	152.3	149.0	144.6
964.3	30°	855.3	685.1	282.5	170.9	154.7	151.0	147.5	144.2	139.4	133.9
1065.1	32.5°	926.8	714.4	263.0	164.5	148.8	144.8	140.7	136.8	131.5	126.0
1178.5	35°	1012.2	749.8	251.6	160.2	144.2	138.9	134.3	130.0	126.0	121.2
1301.6	37.5°	1104.7	787.5	248.1	158.0	141.1	133.0	127.8	124.7	124.3	121.4
1434.9	40°	1206.0	832.1	250.7	156.7	137.8	127.3	121.7	121.0	122.1	117.1
1577.3	42.5°	1313.2	885.0	255.1	155.1	133.2	121.7	116.2	116.2	115.3	108.3
1727.9	45°	1429.2	946.1	259.5	151.4	127.8	116.0	111.8	110.3	106.6	99.8
1879.3	47.5°	1546.0	1008.2	262.8	144.6	121.2	111.2	107.4	103.9	98.5	92.3
2027.8	50°	1657.0	1064.0	259.3	134.6	113.8	106.6	102.6	97.8	91.9	87.7
2168.5	52.5°	1756.1	1112.4	244.4	122.7	105.9	101.7	98.2	93.2	88.4	84.0
2295.4	55°	1842.3	1151.5	218.1	111.6	98.9	97.6	94.1	87.7	81.2	77.5
2421.2	57.5°	1925.0	1181.3	185.3	102.4	92.6	93.0	87.7	82.1	75.9	72.0
2590.8	60°	2035.1	1221.1	152.1	93.9	85.8	87.1	81.4	77.2	69.6	64.5
2881.6	62.5°	2211.0	1283.0	120.8	83.4	77.9	78.3	75.9	70.9	61.7	55.8
3097.1	65°	2350.6	1260.3	95.2	72.0	68.9	69.6	69.6	64.1	54.3	47.5
3108.7	67.5°	2334.8	1079.1	75.9	60.8	60.4	60.8	62.4	57.8	48.1	42.7
2872.0	70°	2150.8	858.4	60.8	50.5	52.5	51.4	55.8	52.7	43.3	37.9
2226.5	72.5°	1755.0	618.3	46.4	41.8	40.3	42.0	50.3	47.5	36.1	30.0
1179.3	75°	1025.5	330.0	34.6	33.0	29.1	35.0	44.6	40.5	27.6	22.1
361.5	77.5°	333.9	115.1	25.4	24.3	21.7	28.2	38.1	34.1	22.5	17.5
105.9	80°	89.5	34.8	17.3	16.0	14.0	21.0	30.2	27.1	16.2	11.4
45.5	82.5°	35.9	14.7	10.1	9.0	7.7	14.4	23.8	21.9	12.0	7.2
14.2	85°	11.6	4.8	3.7	2.8	3.5	9.0	14.2	14.9	8.5	3.7
2.2	87.5°	1.5	0.7	0.7	0.9	0.7	1.5	4.4	4.2	2.4	0.4
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>
503.5
443.9
359.3
277.9
226.9
208.3
202.0
194.7
184.7
171.8
157.8
144.2
133.5
126.2
120.8
121.2
117.3
108.3
99.6
92.1
87.1
83.6
77.0
71.5
63.9
55.4
46.8
41.8
37.2
29.3
21.4
16.8
11.2
7.2
2.8
0.0
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