

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: P945269

Luminaire Tested: **GALN-SB1B-735-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4339 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

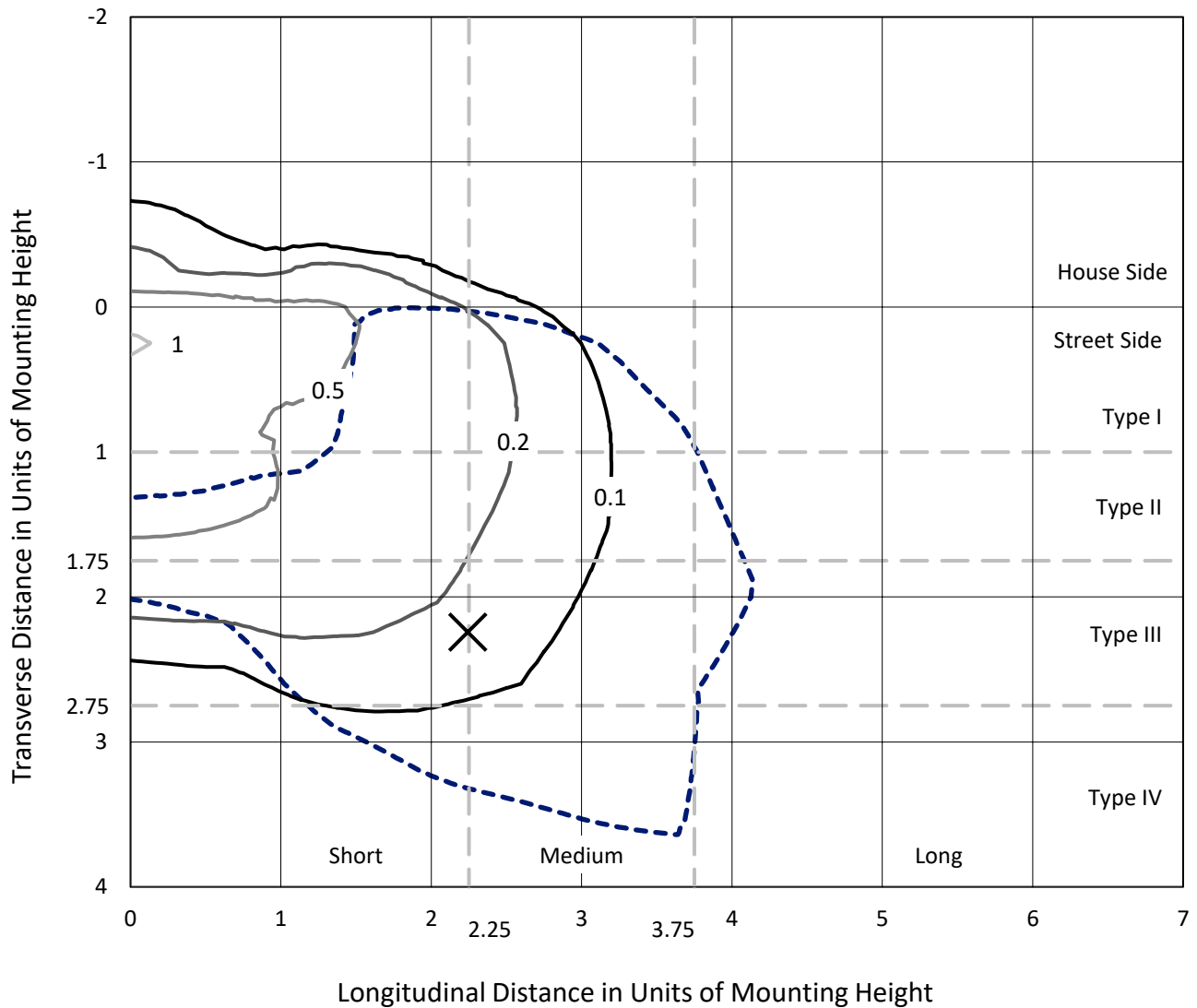
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

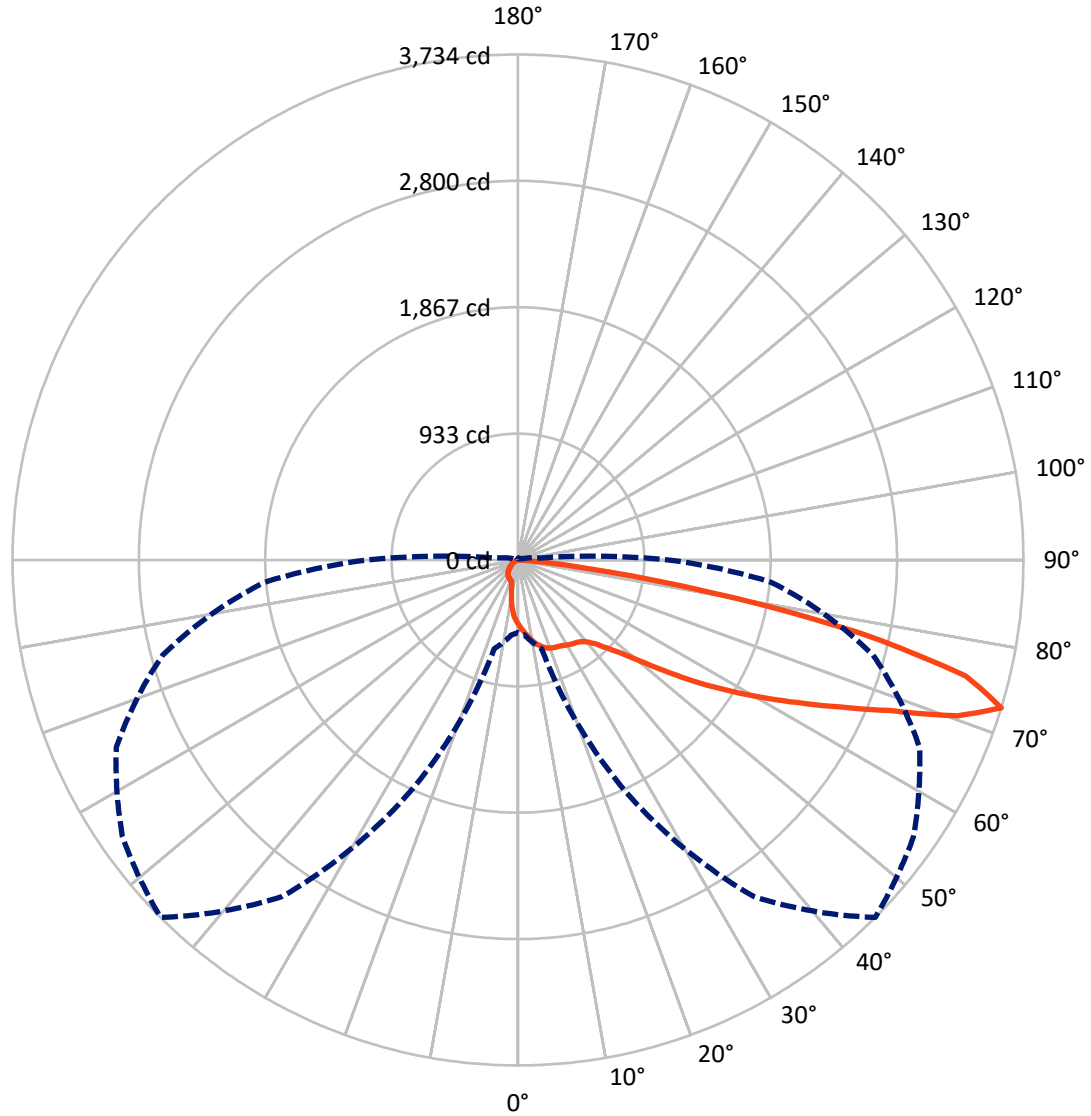
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	455.9	0.0	455.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	3883.1	0.0	3883.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	4339.0	0.0	4339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	1.0
10°-20°	130.9	3.0
20°-30°	214.9	5.0
30°-40°	304.8	7.0
40°-50°	503.9	11.6
50°-60°	905.2	20.9
60°-70°	1256.9	29.0
70°-80°	911.7	21.0
80°-90°	65.9	1.5
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°	4339.0	100.0
0°-180°	4339.0	100.0

Coefficient of Utilization



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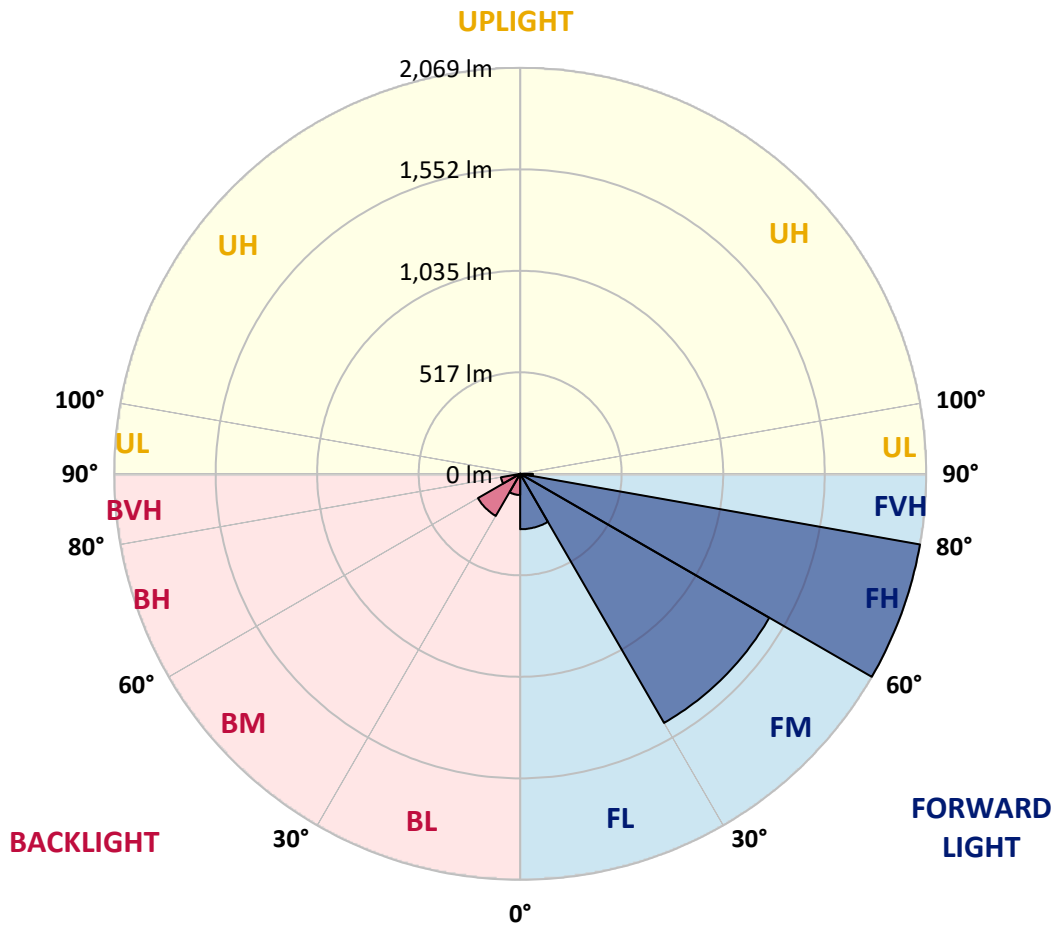
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	282.6	6.5			
FM (30°-60°)	1465.9	33.8			
FH (60°-80°)	2069.1	47.7			G2/5000
FVH (80°-90°)	65.4	1.5			G1/100
BL (0°-30°)	108.0	2.5	B0/110		
BM (30°-60°)	247.9	5.7	B1/1000		
BH (60°-80°)	99.4	2.3	B0/110		G0/110
BVH (80°-90°)	0.6	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3
2.5°	519.2	520.1	519.5	515.9	510.0	506.7	505.0	499.0	495.2	488.4
5°	566.9	570.4	568.3	561.2	550.0	542.0	539.6	527.5	516.5	503.8
7.5°	617.5	619.3	615.4	606.3	591.1	577.5	575.5	558.6	541.1	521.5
10°	661.3	663.4	657.5	644.2	627.0	610.1	607.1	588.5	567.8	543.8
12.5°	698.1	700.1	692.4	676.4	657.5	640.0	637.1	617.5	594.7	568.0
15°	725.9	729.8	719.4	702.2	681.8	664.3	662.8	643.6	621.4	591.7
17.5°	742.2	746.0	736.3	715.5	698.1	683.3	681.5	665.5	644.8	616.3
20°	744.9	748.4	738.0	720.0	705.5	693.6	692.7	681.2	666.1	638.8
22.5°	736.9	741.3	731.8	717.3	707.2	701.0	699.8	693.3	684.7	661.6
25°	728.6	732.1	725.0	712.3	706.9	706.4	707.2	706.1	704.3	684.7
27.5°	728.0	731.8	723.8	711.7	708.7	714.9	715.8	721.5	722.9	705.8
30°	733.0	735.7	728.0	715.2	713.8	728.0	728.3	738.3	740.7	723.5
32.5°	744.0	746.9	739.2	720.6	718.5	738.3	739.2	752.6	756.4	742.5
35°	769.7	773.3	764.4	735.4	728.0	748.1	750.8	766.5	774.2	762.6
37.5°	834.0	823.6	811.5	765.3	749.6	763.5	768.0	786.3	799.9	786.6
40°	993.6	961.1	923.1	816.2	787.5	796.4	799.9	818.3	837.0	823.9
42.5°	1233.2	1194.7	1133.7	933.5	844.7	849.1	851.8	867.8	894.1	883.8
45°	1446.8	1432.9	1370.7	1133.7	951.6	929.7	932.9	941.2	980.0	976.2
47.5°	1610.8	1602.9	1554.9	1363.5	1132.2	1028.3	1037.5	1041.3	1097.3	1110.9
50°	1737.0	1734.1	1691.1	1567.9	1368.3	1173.7	1177.0	1168.7	1252.5	1286.2
52.5°	1856.1	1866.1	1834.5	1757.7	1620.3	1364.1	1363.5	1324.5	1437.6	1488.5
55°	1963.6	1967.1	1970.4	1951.4	1873.8	1580.9	1575.3	1511.3	1652.3	1705.0
57.5°	2064.6	2066.1	2095.1	2133.9	2137.7	1813.7	1803.4	1726.6	1886.9	1924.5
60°	2132.4	2139.2	2200.5	2308.3	2355.4	2053.9	2048.3	1970.1	2125.6	2143.1
62.5°	2034.7	2076.1	2230.7	2444.6	2560.9	2320.2	2317.5	2244.1	2376.7	2362.5
65°	1647.0	1717.2	1989.1	2536.7	2762.6	2617.5	2621.4	2543.2	2634.7	2588.5
67.5°	1152.1	1226.1	1547.8	2544.1	2988.0	2966.7	2988.9	2866.3	2908.6	2805.0
70°	796.7	834.9	1044.3	2384.7	3163.6	3447.7	3447.1	3263.2	3181.1	2903.6
72.5°	535.8	555.6	678.2	1891.9	3034.5	3733.5	3716.3	3566.4	3272.9	2715.5
75°	226.0	240.5	313.9	1063.2	2400.7	3415.7	3369.2	3151.8	2908.1	2138.3
77.5°	71.7	77.9	123.8	380.6	1322.4	2567.5	2518.3	1968.3	1949.1	1072.7
80°	34.1	39.7	69.6	152.8	520.4	1396.4	1389.6	892.9	838.4	289.7
82.5°	14.8	17.5	38.5	81.7	232.8	498.2	508.2	303.9	251.4	109.9
85°	4.7	6.2	17.8	37.6	98.3	123.8	122.3	72.3	101.3	59.8
87.5°	0.0	0.0	5.9	8.6	10.1	7.1	8.0	6.2	28.1	16.6
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°
475.3	0°	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3	475.3
481.3	2.5°	477.7	473.0	464.7	457.0	450.2	443.4	439.2	433.3	432.7	432.7
489.0	5°	481.0	473.3	458.5	442.8	424.7	407.5	390.3	373.8	368.4	364.6
501.4	7.5°	490.5	478.3	454.9	425.0	390.6	353.0	326.7	298.2	287.3	281.4
518.0	10°	504.1	487.5	451.9	399.5	343.8	292.6	255.0	224.2	212.4	207.3
536.1	12.5°	519.2	498.7	446.6	367.8	292.6	231.3	194.6	180.4	178.6	178.6
557.7	15°	537.2	512.4	437.4	330.5	239.0	183.0	170.0	170.6	172.4	173.6
578.7	17.5°	555.9	526.9	422.9	288.8	191.6	164.7	165.0	165.9	167.3	168.5
601.5	20°	576.0	541.4	403.7	244.3	164.4	159.3	160.2	161.1	162.3	162.9
622.8	22.5°	597.7	555.0	380.9	200.8	155.2	154.9	155.2	156.1	157.6	157.6
647.7	25°	620.8	570.1	354.8	169.1	150.5	150.5	151.0	151.6	152.8	152.8
671.7	27.5°	644.5	584.0	327.3	152.5	146.3	146.0	146.0	146.9	147.5	147.8
695.4	30°	670.5	600.3	299.7	149.0	143.0	141.6	140.7	141.3	141.9	142.2
720.3	32.5°	697.2	616.0	275.1	150.5	139.8	137.1	134.2	133.6	133.6	134.8
746.0	35°	726.8	633.2	256.2	155.5	138.0	130.6	125.9	123.2	123.5	125.3
776.8	37.5°	762.3	653.9	242.3	159.9	136.8	123.2	115.5	112.2	110.2	112.2
819.2	40°	808.8	684.4	232.2	163.5	135.3	114.6	104.3	98.9	95.1	96.3
884.9	42.5°	877.2	732.4	228.3	163.8	132.1	104.5	92.7	85.6	80.0	80.3
983.9	45°	973.2	808.2	248.2	159.9	125.0	93.6	80.6	71.1	67.5	66.6
1131.7	47.5°	1104.7	918.7	294.1	151.9	114.6	82.9	68.7	60.7	58.0	56.6
1325.6	50°	1280.9	1060.6	345.0	143.0	104.3	72.9	58.9	53.9	52.1	50.6
1555.8	52.5°	1485.3	1204.5	386.8	134.2	93.9	64.0	52.7	49.8	48.3	47.1
1777.9	55°	1672.7	1303.7	384.4	124.7	83.8	56.9	48.3	46.5	44.7	43.5
1969.2	57.5°	1789.4	1317.6	316.9	114.3	72.3	51.2	44.1	42.9	40.9	39.4
2134.8	60°	1843.0	1238.3	222.1	100.7	60.7	45.9	39.7	39.1	36.4	34.4
2291.4	62.5°	1852.8	1090.8	148.1	83.8	50.6	40.9	35.2	34.4	30.8	27.2
2418.8	65°	1813.1	879.9	102.5	65.5	43.2	35.5	30.2	28.4	24.6	21.0
2449.0	67.5°	1687.6	617.8	71.4	47.1	36.7	28.1	24.0	23.4	20.4	17.5
2295.0	70°	1457.4	352.1	47.7	35.2	29.0	19.3	19.0	19.5	16.6	14.2
1875.0	72.5°	1117.4	161.1	29.6	25.8	19.8	13.0	15.1	15.4	12.7	10.7
1169.9	75°	657.8	69.0	18.7	16.6	10.1	8.6	11.0	11.3	8.6	6.8
427.7	77.5°	223.9	26.1	11.8	9.8	5.0	4.7	7.1	7.1	4.7	2.7
85.9	80°	50.9	9.8	5.9	3.9	2.4	2.1	2.4	2.1	1.2	0.3
26.4	82.5°	14.5	3.9	2.4	1.5	0.9	0.9	0.3	0.0	0.0	0.0
9.2	85°	4.1	1.8	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
3.3	87.5°	1.8	0.3	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>
475.3
434.2
366.4
282.2
207.3
178.6
173.6
168.5
163.2
158.2
153.1
148.1
142.8
135.6
126.2
111.7
95.7
79.1
65.5
55.7
50.3
46.8
42.9
39.1
33.8
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16.6
13.0
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