

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: P938746

Luminaire Tested: **GALN-SB1A-735-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3519 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

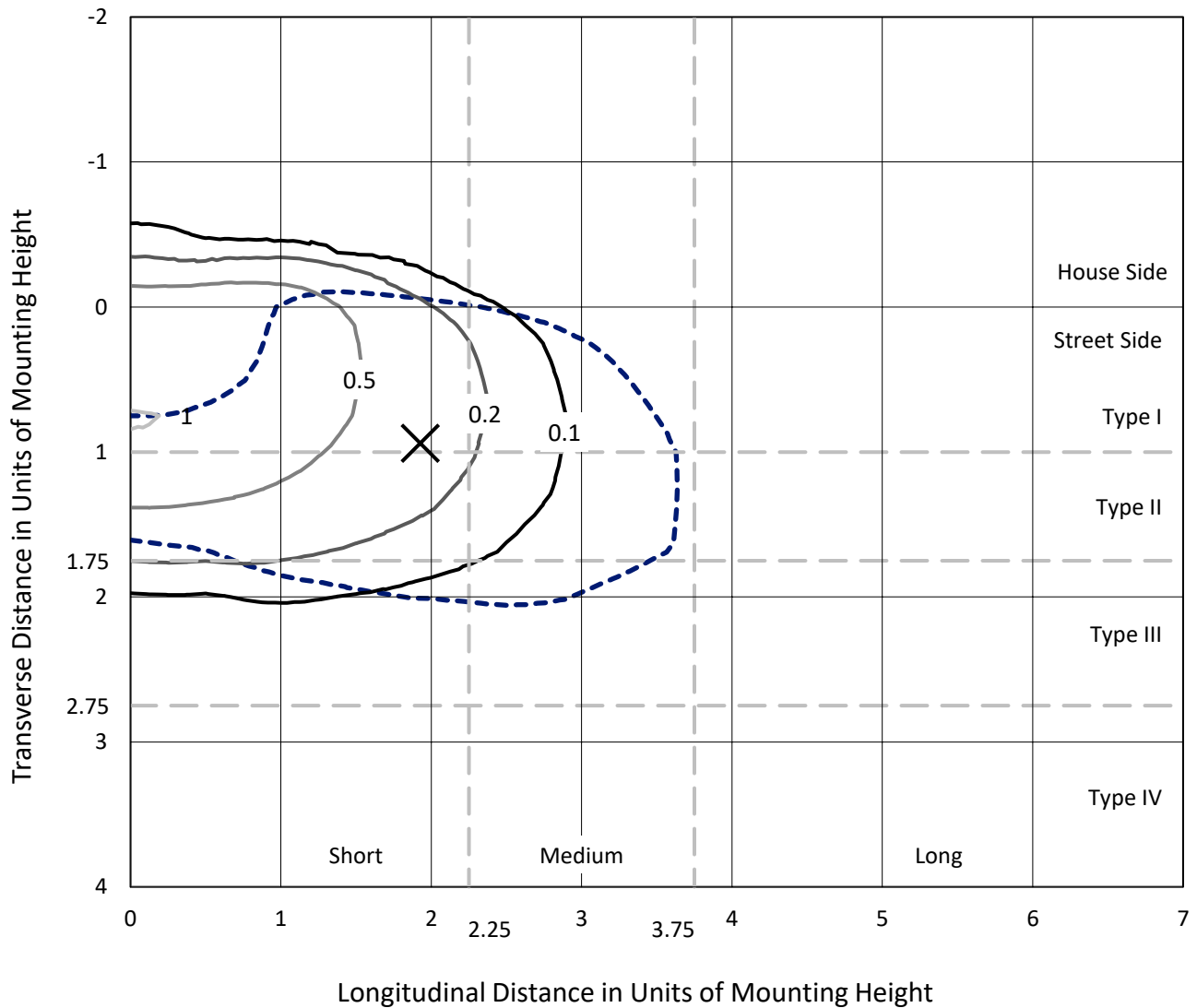
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

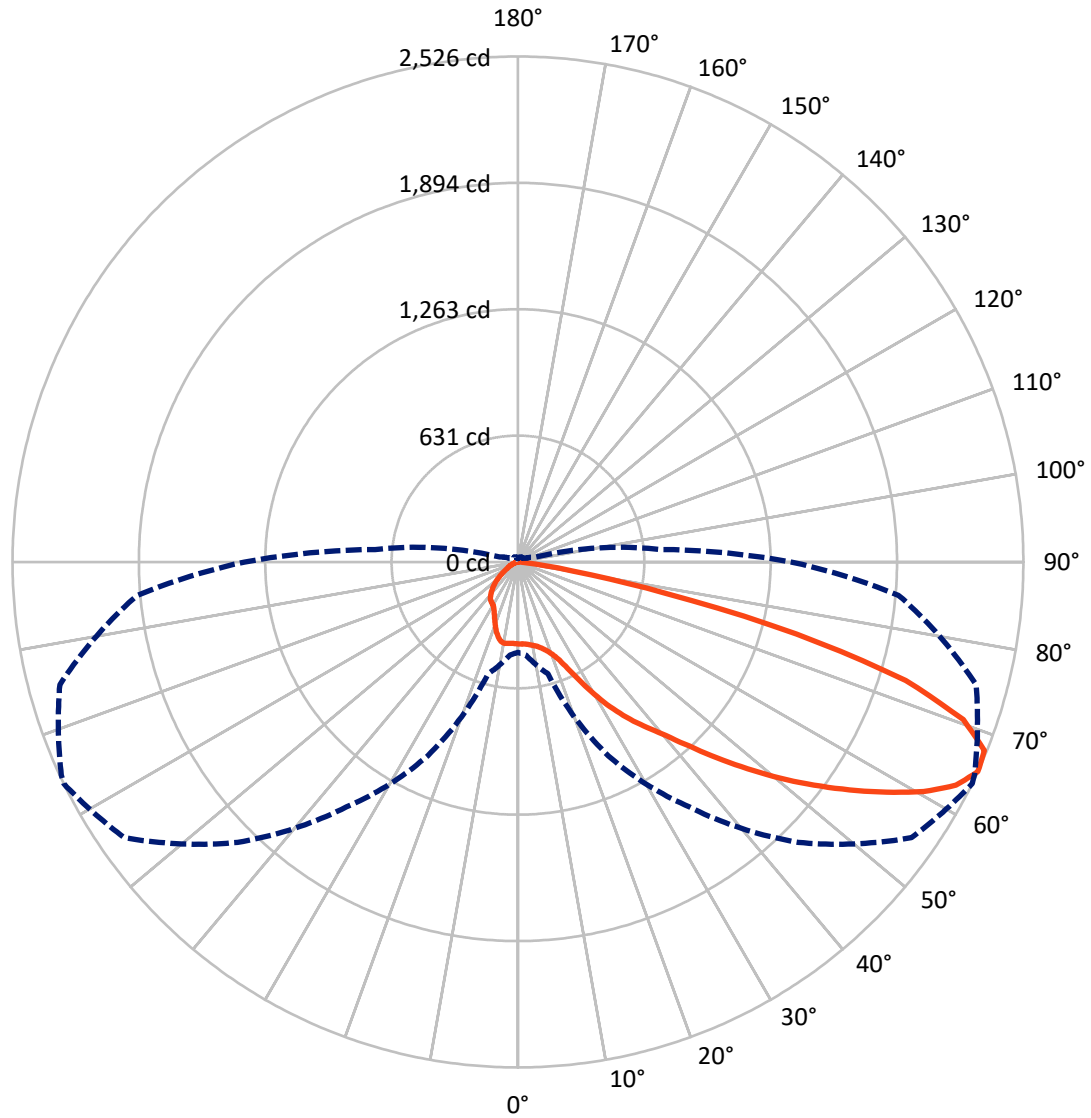
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	470.6	0.0	470.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	3048.4	0.0	3048.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	3519.0	0.0	3519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.8	1.1
10°-20°	102.4	2.9
20°-30°	194.1	5.5
30°-40°	392.7	11.2
40°-50°	669.0	19.0
50°-60°	909.8	25.9
60°-70°	854.3	24.3
70°-80°	342.3	9.7
80°-90°	16.6	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°	3519.0	100.0
0°-180°	3519.0	100.0

Coefficient of Utilization



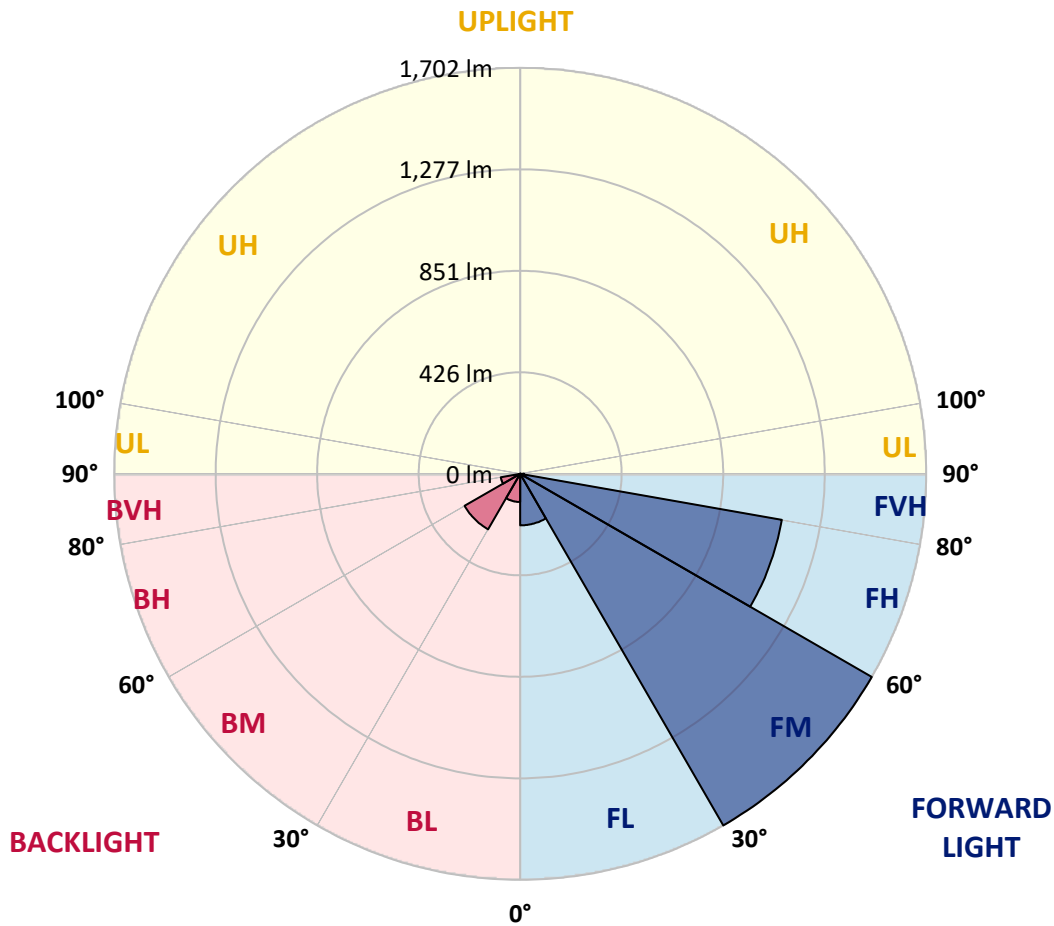
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	216.1	6.1			
FM (30°-60°)	1702.5	48.4			
FH (60°-80°)	1114.0	31.7			G1/1800
FVH (80°-90°)	15.8	0.4			G1/100
BL (0°-30°)	118.2	3.4	B1/500		
BM (30°-60°)	269.0	7.6	B1/1000		
BH (60°-80°)	82.6	2.3	B0/110		G0/110
BVH (80°-90°)	0.8	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	409.3	409.3	409.3	409.3	409.3	409.3	409.3	409.3	409.3	409.3
2.5°	407.9	410.7	410.0	409.3	409.1	409.5	409.8	409.5	409.5	409.5
5°	400.1	402.5	402.5	404.1	406.5	409.3	411.4	411.9	412.4	413.1
7.5°	385.2	387.1	388.5	394.0	399.9	407.4	413.8	417.1	417.6	420.1
10°	375.1	377.4	379.8	385.5	394.0	405.3	416.1	424.2	425.3	431.5
12.5°	374.6	377.0	380.0	386.2	396.1	408.1	421.3	432.9	435.0	444.0
15°	379.6	382.4	385.2	392.8	403.4	418.0	432.2	446.6	448.7	461.4
17.5°	389.7	393.5	395.6	403.2	414.5	430.8	449.4	465.9	467.8	482.7
20°	409.8	414.3	415.0	421.1	432.2	449.6	471.8	492.3	494.7	511.7
22.5°	451.3	457.7	452.0	455.1	465.0	482.4	506.5	532.4	535.7	555.1
25°	524.4	533.4	518.8	513.6	517.8	536.0	566.2	599.0	602.7	618.3
27.5°	668.1	656.5	634.4	612.6	599.9	610.3	644.3	684.8	689.6	704.7
30°	825.9	815.8	785.8	737.7	707.5	705.8	737.2	782.5	787.9	802.3
32.5°	984.0	974.3	941.7	882.5	830.2	804.2	825.9	876.2	879.0	888.2
35°	1139.4	1129.5	1097.0	1036.3	971.9	913.0	908.7	965.3	966.3	975.9
37.5°	1295.8	1287.6	1252.9	1193.4	1130.0	1048.6	1009.2	1049.8	1051.0	1060.4
40°	1407.4	1411.0	1387.1	1341.1	1286.6	1197.7	1122.0	1139.7	1132.6	1148.4
42.5°	1503.2	1510.3	1489.5	1466.4	1434.8	1356.5	1261.6	1258.6	1247.2	1255.7
45°	1586.0	1591.9	1573.3	1567.8	1567.1	1512.2	1414.3	1395.9	1380.0	1378.4
47.5°	1616.4	1627.7	1635.8	1653.9	1689.3	1666.2	1572.1	1543.5	1525.8	1512.9
50°	1628.0	1640.0	1667.4	1720.2	1804.0	1813.9	1729.2	1697.1	1675.4	1651.8
52.5°	1612.4	1633.9	1670.7	1759.6	1881.1	1932.3	1879.9	1851.9	1827.1	1788.6
55°	1520.6	1542.1	1617.4	1759.1	1919.6	2015.3	2022.4	2009.9	1982.1	1921.5
57.5°	1327.2	1359.1	1478.2	1699.2	1918.9	2086.8	2162.1	2171.0	2139.9	2053.1
60°	1059.2	1102.4	1247.7	1566.4	1859.6	2125.5	2284.5	2329.3	2296.3	2182.8
62.5°	739.1	789.1	926.6	1358.3	1724.2	2097.7	2373.9	2456.7	2431.7	2298.9
65°	450.8	466.9	577.7	1068.9	1494.0	1981.1	2401.5	2525.6	2517.3	2369.9
67.5°	300.3	313.8	345.6	733.0	1159.7	1748.3	2335.5	2513.6	2515.9	2358.3
70°	180.9	192.5	213.3	426.3	751.6	1383.8	2130.9	2360.2	2373.9	2203.8
72.5°	74.5	82.3	101.2	193.2	389.2	878.3	1696.9	2026.4	2058.3	1853.0
75°	42.2	46.2	59.4	97.0	168.9	409.3	1027.8	1438.6	1485.5	1277.2
77.5°	28.1	30.0	38.5	62.8	95.1	139.7	439.3	749.5	839.1	697.6
80°	18.9	20.5	26.4	42.0	61.8	59.9	139.9	277.7	341.6	239.7
82.5°	12.7	13.0	18.9	27.6	39.2	29.0	41.3	86.3	108.5	69.4
85°	7.3	7.1	13.9	16.0	17.5	12.0	12.5	25.9	34.0	29.3
87.5°	0.9	1.4	5.4	4.2	2.4	2.6	2.6	4.5	6.6	7.1
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°
409.3	0°	409.3	409.3	409.3	409.3	409.3	409.3	409.3	409.3	409.3	409.3
409.8	2.5°	409.8	409.5	408.8	408.1	406.5	405.5	406.0	405.5	405.3	405.5
412.8	5°	412.8	412.1	410.2	407.9	404.6	400.6	398.0	394.2	390.7	388.5
421.1	7.5°	421.1	420.4	417.8	411.2	400.6	383.8	368.5	355.0	344.9	339.0
434.3	10°	434.3	433.1	429.1	414.5	386.6	350.1	319.7	294.4	277.9	270.1
449.9	12.5°	449.9	448.5	441.4	411.4	360.2	303.1	261.1	233.1	217.7	210.9
467.8	15°	468.3	466.4	452.5	396.8	321.8	251.2	212.8	191.8	181.9	175.7
490.7	17.5°	491.2	487.9	460.7	374.9	280.0	211.6	183.1	167.3	158.5	152.6
520.6	20°	520.9	515.5	467.3	348.7	241.6	186.6	163.0	149.8	143.2	138.0
563.1	22.5°	562.4	554.6	475.3	320.4	214.4	169.4	148.1	138.5	133.1	127.2
622.3	25°	613.8	604.6	485.3	294.2	195.8	154.5	137.3	129.3	122.9	116.1
699.9	27.5°	685.8	669.3	497.1	272.7	179.8	141.8	127.4	118.4	111.1	105.4
787.9	30°	766.0	738.9	507.4	259.7	165.1	130.0	114.4	105.4	98.6	94.6
867.0	32.5°	841.9	805.1	514.3	254.1	151.9	116.5	100.3	90.6	85.4	84.2
944.3	35°	913.7	865.1	513.6	248.6	140.1	103.1	86.3	76.4	72.4	73.1
1027.6	37.5°	996.2	929.0	508.6	240.2	130.5	90.8	74.3	65.6	62.0	62.3
1128.8	40°	1092.2	1002.8	505.5	224.1	119.8	79.5	64.4	57.3	54.7	53.8
1235.4	42.5°	1194.6	1074.3	506.0	205.9	106.6	69.4	57.6	51.7	49.3	48.6
1354.1	45°	1297.5	1142.5	506.7	187.1	92.7	61.6	52.6	47.7	46.2	45.3
1474.4	47.5°	1394.2	1200.5	493.5	166.8	79.0	55.7	48.6	45.3	44.1	42.9
1595.2	50°	1484.3	1239.2	461.7	143.2	68.2	51.0	45.5	43.2	42.0	40.8
1704.7	52.5°	1554.4	1245.3	409.1	118.9	60.6	47.4	43.6	41.5	40.1	38.9
1793.1	55°	1585.5	1206.9	334.3	96.2	54.7	44.4	41.8	39.6	38.0	36.8
1862.7	57.5°	1577.5	1126.0	260.7	77.4	49.1	41.3	39.4	38.0	36.1	34.2
1919.1	60°	1538.1	1017.7	196.5	64.4	43.9	38.0	36.8	35.6	33.0	30.2
1940.8	62.5°	1469.9	881.6	140.1	53.3	38.2	34.2	33.7	32.8	29.0	23.8
1908.7	65°	1365.7	716.2	94.4	44.4	32.8	30.0	30.2	28.5	23.6	17.7
1791.2	67.5°	1213.3	523.7	60.4	36.3	27.4	25.0	25.2	24.3	20.1	15.1
1568.5	70°	1019.1	346.8	39.4	27.6	21.9	19.3	20.8	21.0	17.0	12.3
1203.8	72.5°	747.1	204.8	27.6	20.5	16.0	13.4	17.0	17.5	13.7	9.2
724.2	75°	425.8	97.2	20.8	14.9	9.9	9.4	13.2	13.2	9.4	6.1
313.5	77.5°	178.8	40.6	14.6	9.7	5.7	5.4	9.0	8.3	4.7	2.8
76.4	80°	51.7	18.2	7.8	4.7	2.4	2.1	3.5	2.6	1.2	0.5
29.0	82.5°	20.3	8.0	3.1	1.9	0.9	0.9	0.5	0.0	0.0	0.0
16.5	85°	12.0	3.3	1.4	0.7	0.2	0.0	0.0	0.0	0.0	0.0
3.5	87.5°	3.1	0.7	0.5	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>
409.3
406.5
389.0
339.2
269.4
210.2
176.0
152.2
137.1
126.2
115.4
104.3
93.9
84.9
73.1
63.2
53.6
48.4
45.3
42.9
40.8
38.7
36.6
34.0
29.7
23.4
17.2
14.4
11.8
8.7
5.7
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0.5
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