

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: P945168

Luminaire Tested: **GALN-SB1A-950-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-950-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2662 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

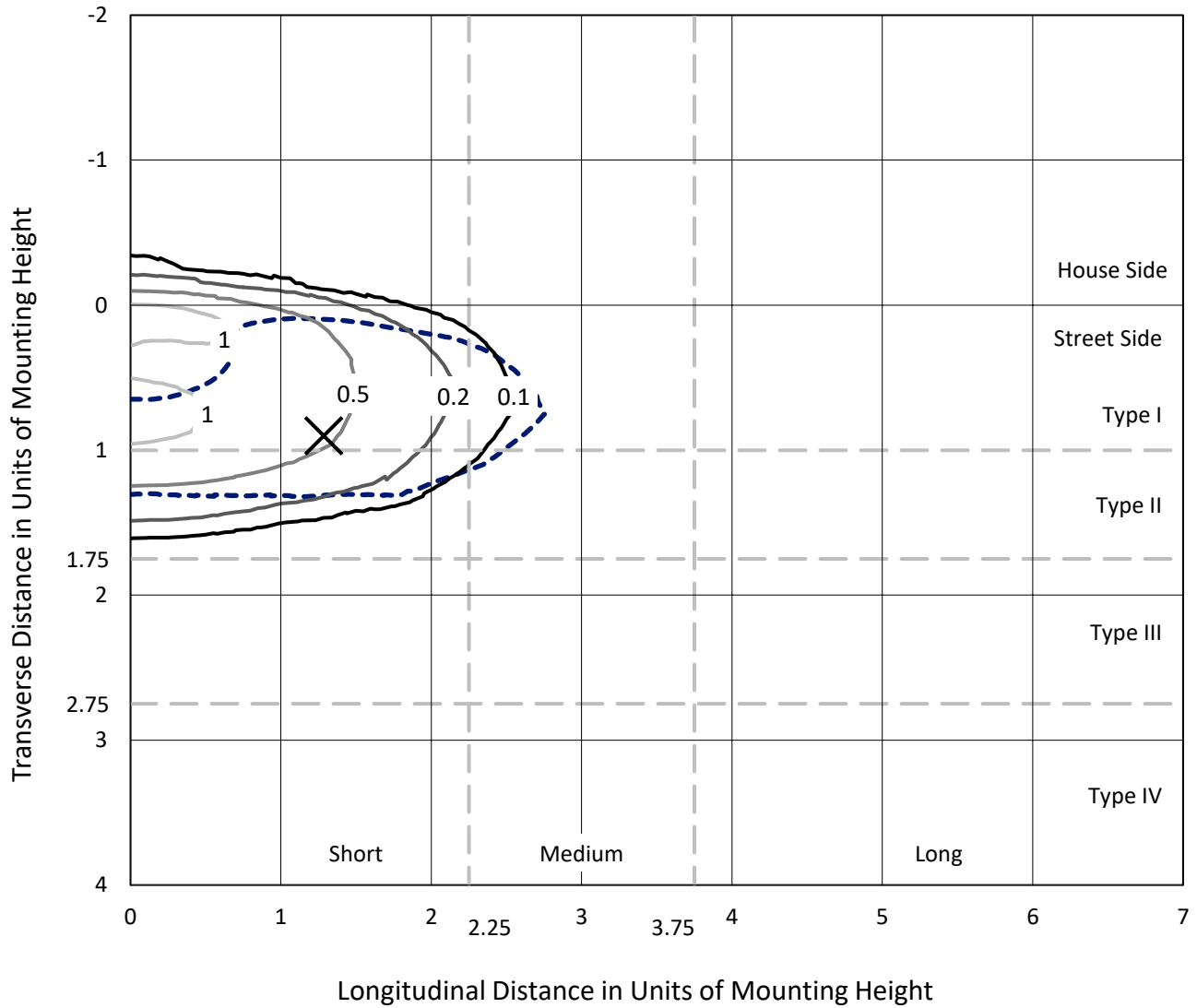
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

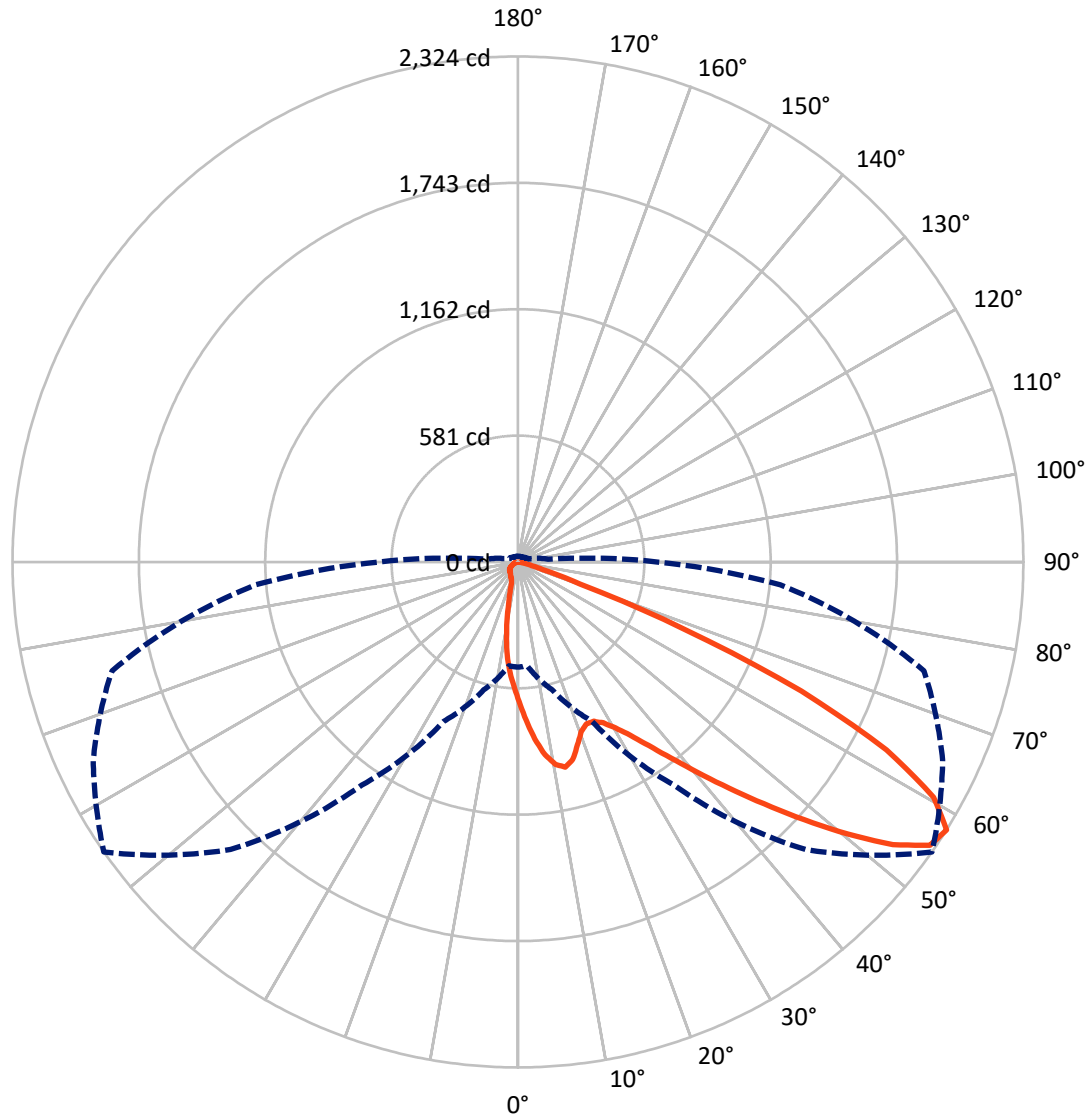
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	207.9	0.0	207.9
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	2454.1	0.0	2454.1
	% Fixture	92.2	0.0	92.2
Total	Lumens	2662.0	0.0	2662.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.7	2.2
10°-20°	144.2	5.4
20°-30°	230.7	8.7
30°-40°	390.4	14.7
40°-50°	641.0	24.1
50°-60°	704.5	26.5
60°-70°	404.1	15.2
70°-80°	82.6	3.1
80°-90°	4.9	0.2
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°	2662.0	100.0
0°-180°	2662.0	100.0

Coefficient of Utilization



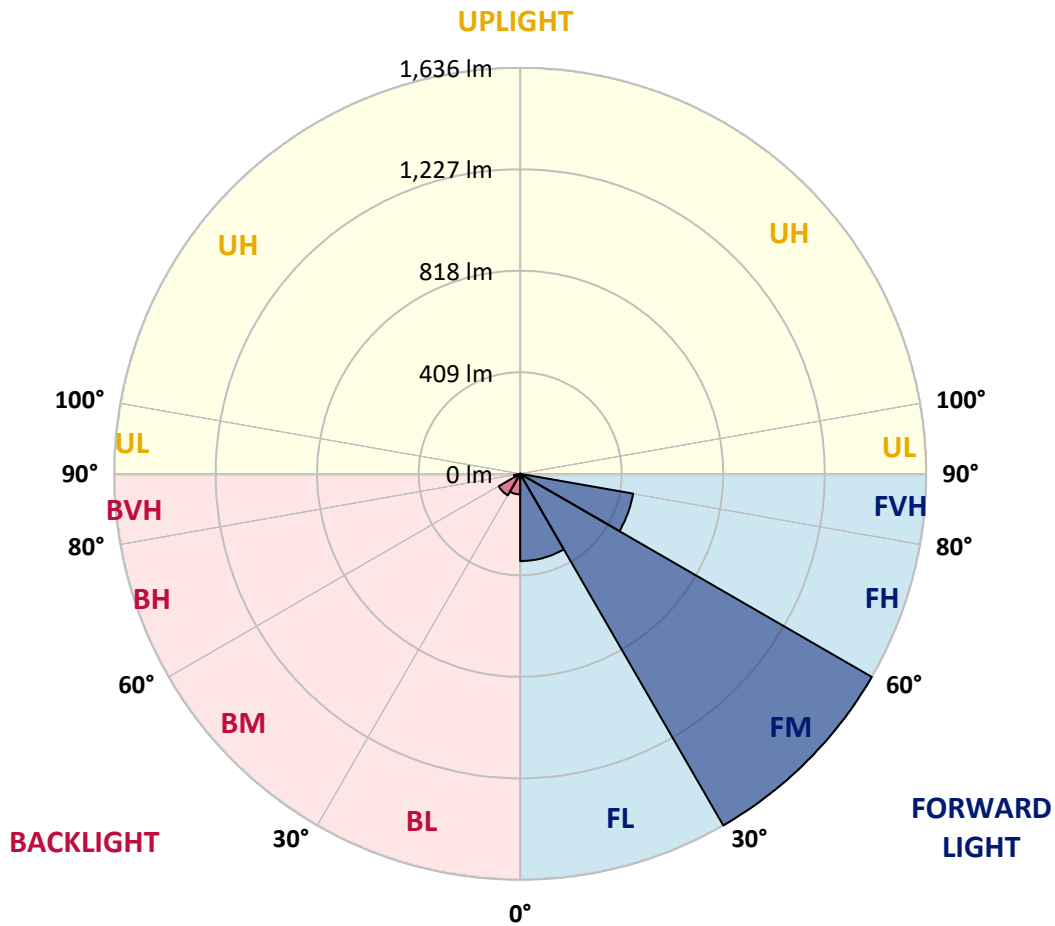
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	351.5	13.2			
FM (30°-60°)	1636.1	61.5			
FH (60°-80°)	462.0	17.4			G0/660
FVH (80°-90°)	4.5	0.2			G0/10
BL (0°-30°)	83.0	3.1	B0/110		
BM (30°-60°)	99.8	3.8	B0/220		
BH (60°-80°)	24.7	0.9	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5
2.5°	795.9	785.9	784.4	782.5	763.4	749.2	728.5	705.8	680.4	654.4
5°	919.5	911.7	910.2	901.0	879.3	855.0	818.3	771.8	724.4	668.6
7.5°	943.5	942.0	948.8	948.4	945.5	926.3	895.2	839.9	768.7	686.0
10°	836.6	840.4	860.4	878.0	925.4	953.0	946.3	900.7	814.3	705.8
12.5°	739.3	734.9	749.2	769.0	824.2	906.2	967.5	951.4	866.5	728.3
15°	678.2	676.4	684.5	693.7	735.7	818.4	942.8	992.6	916.7	754.9
17.5°	658.7	657.2	659.7	662.0	689.2	753.3	884.2	1017.9	964.8	785.3
20°	674.6	672.7	672.3	670.5	681.9	725.5	831.2	1019.7	1008.0	812.8
22.5°	721.1	718.8	710.7	703.5	704.5	729.3	807.6	1001.6	1040.5	838.6
25°	805.3	801.5	784.8	760.5	745.1	755.6	811.2	977.8	1071.5	858.8
27.5°	910.7	905.7	884.2	848.1	812.8	800.0	837.3	961.4	1097.3	874.2
30°	1013.9	1007.5	986.3	958.3	906.7	866.4	884.4	968.6	1128.0	890.3
32.5°	1125.4	1119.3	1091.2	1056.4	1013.8	959.4	948.9	1003.9	1165.6	912.8
35°	1266.4	1256.9	1217.0	1169.5	1124.2	1069.2	1036.2	1064.8	1215.7	947.1
37.5°	1426.9	1414.1	1371.1	1305.6	1246.5	1185.0	1142.6	1148.5	1289.0	993.1
40°	1578.2	1566.6	1526.9	1465.2	1391.0	1316.3	1271.1	1258.0	1390.3	1049.0
42.5°	1669.0	1658.5	1641.8	1615.7	1553.1	1477.0	1420.0	1391.6	1510.1	1116.0
45°	1674.1	1664.9	1687.4	1717.8	1705.5	1654.7	1585.3	1533.3	1630.4	1178.9
47.5°	1592.7	1586.5	1654.7	1760.8	1813.6	1835.0	1771.0	1663.1	1729.8	1224.0
50°	1370.8	1368.5	1509.0	1703.7	1854.8	1992.9	1966.8	1783.9	1806.7	1247.3
52.5°	1188.6	1180.2	1262.1	1520.8	1794.9	2075.9	2158.2	1902.4	1860.6	1251.8
55°	901.5	894.1	996.8	1214.8	1601.7	2046.4	2298.2	2024.7	1899.2	1240.4
57.5°	483.6	479.0	608.8	808.6	1252.1	1869.1	2323.5	2154.1	1931.7	1210.4
60°	188.3	187.5	236.0	392.3	761.0	1520.6	2195.9	2231.7	1952.0	1173.5
62.5°	113.9	116.4	124.3	176.1	336.2	944.7	1901.9	2143.4	1965.6	1139.7
65°	94.2	94.4	95.4	121.0	161.0	395.3	1431.8	1852.9	1932.0	1079.4
67.5°	80.8	82.2	86.0	96.0	113.6	173.3	824.3	1435.3	1727.3	939.2
70°	63.7	65.7	70.4	79.0	87.7	108.5	304.7	955.0	1319.6	708.0
72.5°	53.7	53.5	56.0	64.2	69.6	76.3	117.2	535.1	766.9	338.0
75°	41.5	43.2	46.3	53.7	57.0	55.3	63.5	195.5	274.8	102.4
77.5°	32.5	33.8	36.6	43.8	47.1	39.2	36.6	69.9	88.3	36.8
80°	14.6	15.8	24.9	32.3	38.4	27.1	19.9	35.8	39.2	16.7
82.5°	2.6	4.4	14.6	17.1	19.7	17.6	10.3	18.5	19.2	6.7
85°	0.2	0.3	5.1	6.2	7.9	5.7	3.1	7.4	6.4	2.3
87.5°	0.0	0.0	0.0	0.2	0.2	0.8	1.0	1.3	1.0	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
641.5	0°	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5
643.0	2.5°	631.1	607.8	585.2	566.6	555.8	537.4	525.3	523.3	518.2	522.6
644.6	5°	619.0	577.3	535.1	497.4	466.3	426.3	396.4	383.8	372.8	376.5
648.9	7.5°	613.2	547.4	481.8	417.3	350.9	286.9	239.3	219.5	204.4	206.5
653.6	10°	605.5	516.4	413.5	315.0	226.2	163.0	130.2	118.0	111.3	111.5
660.7	12.5°	599.6	479.3	334.2	213.6	137.7	104.1	93.9	90.9	89.0	89.1
671.4	15°	596.7	435.6	255.9	142.3	98.5	88.1	85.7	84.4	83.1	82.9
683.2	17.5°	591.7	387.1	187.3	103.9	86.2	82.6	80.4	79.0	77.3	77.0
693.3	20°	584.4	331.9	136.9	87.8	80.8	78.0	75.0	73.0	71.1	70.7
699.7	22.5°	570.7	273.6	105.2	81.3	76.8	73.7	70.1	67.8	65.8	65.5
696.6	25°	545.5	219.0	88.6	77.1	73.4	69.6	65.7	62.5	60.7	60.4
689.9	27.5°	513.4	172.0	80.4	73.4	68.9	65.5	61.1	58.1	56.5	56.1
681.0	30°	475.7	132.5	75.7	69.1	63.7	60.7	56.8	54.3	53.3	53.3
674.8	32.5°	435.0	105.9	73.7	64.8	59.1	55.8	52.7	51.7	51.4	51.2
678.2	35°	396.7	91.9	72.7	61.4	55.0	51.9	50.6	50.7	51.4	51.4
688.9	37.5°	362.8	87.5	72.2	58.9	51.4	48.6	49.4	50.9	50.2	50.2
707.6	40°	332.1	88.0	71.9	57.1	48.4	46.8	48.4	47.3	45.6	45.5
730.4	42.5°	308.6	92.1	71.2	55.6	46.6	45.5	44.8	43.0	42.8	43.2
754.1	45°	291.5	95.7	71.1	55.0	44.6	42.5	41.7	39.9	43.2	44.0
763.8	47.5°	271.3	95.7	71.1	52.7	41.4	40.5	39.2	37.3	40.5	41.4
754.6	50°	245.2	89.6	68.3	50.1	38.7	38.2	35.9	33.5	32.8	33.3
733.1	52.5°	212.2	78.6	61.2	46.5	36.1	35.1	32.3	30.5	30.0	30.0
694.5	55°	174.6	65.8	51.7	41.2	33.3	31.5	29.5	28.7	28.2	27.9
640.5	57.5°	142.0	54.0	41.5	36.6	30.7	28.4	27.7	26.8	25.9	25.4
595.4	60°	116.5	42.5	34.3	32.5	28.1	25.9	25.8	24.5	22.3	22.0
558.1	62.5°	90.0	31.2	28.9	28.2	25.4	23.6	23.3	20.7	17.4	16.7
505.2	65°	63.5	24.3	23.3	24.8	22.7	21.0	20.2	16.3	12.8	12.3
422.8	67.5°	44.6	20.4	18.4	21.7	19.7	17.6	17.1	13.8	10.7	10.3
319.8	70°	31.8	16.6	15.1	18.5	15.8	15.4	14.4	11.5	8.7	8.4
158.2	72.5°	22.5	12.6	11.7	16.1	10.8	13.3	11.8	8.9	6.6	6.2
53.8	75°	16.6	9.0	8.2	9.4	7.9	10.0	8.4	5.9	4.1	3.9
24.3	77.5°	12.1	5.7	4.9	4.6	4.6	6.2	4.6	2.5	1.8	1.6
12.3	80°	8.5	2.6	2.3	2.0	1.8	1.5	0.7	0.3	0.2	0.2
4.3	82.5°	5.1	1.1	1.1	0.8	0.5	0.0	0.0	0.0	0.0	0.0
1.6	85°	1.1	0.5	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
0.7	87.5°	0.2	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

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